



Ford Motor Company

CONTROLLED WATERS DETAILED QUANTITATIVE RISK ASSESSMENT

Bridgend Engine Plant



(VERSION A.5) CONFIDENTIAL

PROJECT NO. 21476577

OUR REF. NO. 21476577.606/A.5

DATE: JULY 2024

WSP

First Floor

3 Wellington Place

Leeds

LS1 4AP

Phone: +44 113 395 6200

WSP.com



QUALITY CONTROL

Issue/revision	First issue	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5	Revision 5
Remarks	First issue	Second issue	Third issue	Fourth issue	Fifth issue	Sixth issue	Seventh issue
Date	26 October 2023	6 November 2023	17 November 2023	21 November 2023	16 April 2024	09 May 2024	18 July 2024
Prepared by	Anna Goodwin	Anna Goodwin	Anna Goodwin	Anna Goodwin	Anna Goodwin	Anna Goodwin	James Dowle
Signature							
Checked by	James Dowle	James Dowle	James Dowle	James Dowle	James Dowle	James Dowle	Anna Goodwin/Heather Di Lauro (numerical/text)
Signature							
Authorised by	Heather Di Lauro	Heather Di Lauro	Heather Di Lauro	Heather Di Lauro	Heather Di Lauro	Heather Di Lauro	Heather Di Lauro
Signature							
Project number	21476577	21476577	21476577	21476577	21476577	21476577	21476577
Report number	21476577.606 /B1	21476577.606 /A.0	21476577.606 /A.1	21476577.606 /A.2	21476577.606 /A.3	21476577.606 /A.4	21476577.606 /A.5
File reference							

May 2025 Note – Section 5.2 of this report is now superseded following the production of the below document which reflects the proposed future layout of the Site. This relates to calculated infiltration rates and remediation criteria (maximum acceptable soil source concentrations).

- *Bridgend Engine Plant – Effect of Revised Infiltration Values on Maximum Soil Source Concentrations, WSP, 21st March 2025, 70116125-R09.*



STUDY LIMITATIONS

IMPORTANT: This section should be read before reliance is placed on any of the opinions, advice, recommendations or conclusions set out in this report.

- a) This report has been prepared for and at the request of Ford Motor Company (Ford) for the purpose of undertaking environmental assessment activities pursuant to its appointment of WSP UK Ltd (WSP) to act as Consultant.
- b) Save for Ford, no duty is undertaken or warranty or representation made to any party in respect of the opinions, advice, recommendations or conclusions herein set out.
- c) Regard should be given to the agreement between WSP and Ford [May 2020 and July 2021], when considering this report and reliance to be placed on it.
- d) All work carried out in preparing this report has used, and is based upon, WSP's professional knowledge and understanding of the relevant UK legislation at the time that the works were undertaken.
- e) Changes in the legislation may cause the opinion, advice, recommendations or conclusions set out in this report to become inappropriate or incorrect. However, in giving its opinions, advice, recommendations and conclusions, WSP has considered pending changes to environmental legislation and regulations of which it is currently aware. WSP will have no obligation to advise Ford of any such changes, or of their repercussions.
- f) WSP acknowledges that it was retained, in part, because of its knowledge and experience with respect to environmental matters. WSP has considered and analysed all information provided to it in the context of WSP's knowledge and experience and all other relevant information known to WSP. To the extent that the information provided to WSP was not inconsistent or incompatible therewith, WSP shall be entitled to rely upon and assume, without independent verification, the accuracy and completeness of all such information and WSP shall have no obligation to verify the accuracy and completeness of such information.
- g) WSP has prepared this document in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this document. No warranty, express or implied, is made. WSP does not provide specialist legal advice and the advice of lawyers may be required.
- h) In order to properly understand the factual data, interpretation, suggestions, recommendations and opinions expressed in this report, reference must be made to the entire document.
- i) If the scope of the work included borings, test pits, inspections or engineering interpretation of such information, attention is drawn to the fact that special risks occur whenever engineering and related disciplines are applied to identify subsurface conditions. Even a comprehensive sampling and testing programme implemented in accordance with a professional Standard of Care may fail to detect certain conditions. The environmental, geological, geotechnical, geochemical and hydrogeological conditions that WSP interprets to exist between sampling points may differ from those that actually exist. Passage of time, natural occurrences, and activities near the Site may substantially alter discovered conditions.
- j) In any Conclusions and/or Recommendations section of this report, WSP-Golder has set out its key findings and provided a summary and overview of its advice, opinions and recommendations. However, other parts of this report will often indicate the limitations of the information obtained by WSP and therefore any advice, opinions or recommendations set out in any Conclusions and Recommendations sections ought not to be relied upon until considered in the context of the whole report.



CONTENTS

EXECUTIVE SUMMARY

1	INTRODUCTION	4
1.1	TERMS OF REFERENCE	4
1.2	BACKGROUND	4
1.3	SCOPE AND OBJECTIVES	6
2	CONCEPTUAL SITE MODEL AND DATA SCREENING	7
2.1	INTRODUCTION	7
2.2	SOURCE	7
2.2.1	IDENTIFYING GROUNDWATER SUBSTANCES AND ASSOCIATED SOURCES FOR DQRA	8
2.2.2	DEFINING GROUNDWATER SOURCE AREA BOUNDARIES FOR SUBSTANCES SELECTED FOR DQRA	22
2.2.3	DEVELOPING REPRESENTATIVE GROUNDWATER SOURCE CONCENTRATIONS FOR DQRA	24
2.2.4	IDENTIFYING SUBSTANCES IN SOIL AND ASSOCIATED SOURCE AREAS FOR DQRA	25
2.2.5	DEFINING THE BOUNDARIES OF SOIL SOURCE AREAS FOR DQRA	26
2.2.6	DEVELOPING REPRESENTATIVE SOIL SOURCE CONCENTRATIONS FOR DQRA	26
2.3	PATHWAY	26
2.3.1	GEOLOGY	26
2.3.2	THE UNSATURATED PATHWAY	27
2.3.3	THE SATURATED PATHWAY	28
2.4	BIODEGRADATION	29
2.4.1	EVIDENCE OF NATURAL ATTENUATION OF PETROLEUM HYDROCARBONS	29
2.4.2	EVIDENCE OF AEROBIC OR ANAEROBIC CONDITIONS	29
2.4.3	EVIDENCE OF TRICHLOROETHENE DEGRADATION	30

2.4.4	SUMMARY	31
2.4.5	HALF LIVES SELECTION	31
2.5	RECEPTOR	32
2.5.1	RECEPTOR SELECTION	32
2.5.2	COMPLIANCE POINTS	33
2.5.3	TARGET CONCENTRATIONS	36
3	CONSIDERATION OF THE EFFECTS OF CLIMATE CHANGE ON THE RISK ASSESSMENT	40
3.1	INTRODUCTION	40
3.2	CLIMATE CHANGE DATA	40
3.3	SEA-LEVEL RISE	41
3.4	FLOODING	41
3.5	GROUNDWATER RECHARGE	41
3.6	GROUNDWATER LEVELS (TRANSIENT LOW FLOWS / LEVELS > AQUIMOD).	41
3.7	SUMMARY	42
4	DETAILED QUANTITATIVE RISK ASSESSMENT	43
4.1	ASSESSMENT APPROACH	43
4.1.1	SOIL SOURCE ASSESSMENT	43
4.1.2	GROUNDWATER SOURCE ASSESSMENT	44
4.2	CONSIM MODELLING	44
4.2.1	CONTAMINANTS TO BE MODELLED	44
4.2.2	MODEL INPUT PARAMETERS	45
4.2.3	BASE MODEL RESULTS	45
4.3	SENSITIVITY ANALYSIS	48
4.3.1	SENSITIVITY MODEL A (GROUNDWATER SOURCE CONCENTRATIONS)	48
4.3.2	SENSITIVITY MODEL B (CLIMATE CHANGE)	49
4.4	CONCLUSIONS OF THE MODELLING	50
4.4.1	GROUNDWATER SOURCE MODELLING	50
4.4.2	SOIL SOURCE MODELLING	50

5	CALCULATIONS TO SUPPORT SOIL AND GROUNDWATER REMEDIATION	51
5.1	PURPOSE OF THE CALCULATIONS	51
5.2	CALCULATIONS TO SUPPORT SOIL REMEDIATION	51
5.3	CHLORINATED HYDROCARBONS	53
5.4	MONITORING NETWORK	53
6	REFERENCES	54

TABLES

Table 1-1 - Pollutant Linkages from WSP-Golder (2022)	5
Table 2-1 – Source Screening of Metals	10
Table 2-2 – Refined Substance Screening of Groundwater Quality Data for TPH (including BTEX and PAH) and Chlorinated Hydrocarbons	14
Table 2-3 – Solubility Limits	25
Table 2-4 - Summary of Site Geology	27
Table 2-5 – Methodology for Selecting Half-life Values for Petroleum Hydrocarbons	32
Table 2-6 – Compiled Water Quality Standards	37
Table 4-1 - Contaminants Modelled in ConSim	44
Table 4-2 - Groundwater Source Base Model Assessment Results	46
Table 4-3 - Soil Source Base Model Assessment Results	47
Table 5-1 - Derived Maximum Soil Source Concentrations which do not exceed the Compliance Limit (Target Concentration) in Groundwater at the Compliance Point	52
Table 5-2 - Derived Soil Hydrocarbon Concentrations expressed as TPH	52

FIGURES

Figure 2-1 – Conceptual Model of Hydrogeology and Groundwater Contamination	7
Figure 2-2 - Mobility Ranking of Petroleum Hydrocarbon Fractions (CL:AIRE, 2017)	12



Figure 2-3 - Schematic Representation of Level 3 Compliance Points for Contaminants in Groundwater 34

Figure 2-4 - Schematic Representation of Hazardous Substances and Non-Hazardous Pollutants Compliance Points to support a Level 2 and 3 assessment of soil contamination respectively 35

APPENDICES

APPENDIX A

TIME SERIES PLOTS

APPENDIX B

GROUNDWATER CONCENTRATION CONTOUR PLOTS

APPENDIX C

MODEL SOURCE AREAS

APPENDIX D

MODEL INPUT PARAMETERS

APPENDIX E

DISSOLVED OXYGEN PLOTS

APPENDIX F

BASE MODEL INPUTS AND RESULTS

APPENDIX F.1

RECEPTOR LOCATIONS AND GRAPHICAL RESULTS

APPENDIX F.2

GROUNDWATER BASE MODEL INPUTS AND RESULTS

APPENDIX F.3

SOIL BASE MODEL INPUTS AND RESULTS

APPENDIX G

SENSITIVITY MODEL INPUTS AND RESULTS

APPENDIX G.1

SENSITIVITY MODEL INPUT PARAMETER CHANGES

APPENDIX G.2



SENSITIVITY MODEL TABULATED RESULTS

APPENDIX G.3

SENSITIVITY MODEL A - INPUTS AND RESULTS

APPENDIX G.4

SENSITIVITY MODEL B1 - INPUTS AND RESULTS

APPENDIX G.5

SENSITIVITY MODEL B2 - INPUTS AND RESULTS

APPENDIX H

SOIL REMEDIATION MODEL INPUTS AND RESULTS

EXECUTIVE SUMMARY

Ford Motor Company Limited ('Ford') has retained WSP to undertake a controlled waters risk assessment for the Bridgend Engine Plant (the 'Site'). The Site was owned by Ford from the late 1970s until April 2024 when it was sold to a new owner. Whilst owned by Ford the site was operated as a vehicle engine production plant until manufacturing ceased in 2020. Following closure, a multi-phased environmental site assessment was undertaken to provide information relating to the current environmental conditions of the subsurface. The output from the assessments has been used to support Ford's business decisions associated with the divestiture. Following the initial site investigation to obtain a detailed description and understanding of the subsurface environmental conditions (soil, soil gas and groundwater) across the whole Site, a conceptual site model of the Site was developed (WSP-Golder, 2022) and several rounds of groundwater monitoring have been completed (WSP, 2023a and 2023b; WSP-Golder, 2023a and 2023b). A preliminary risk assessment (PRA) and a generic quantitative risk assessment (GQRA) was also developed (WSP-Golder, 2022).

This work builds on the PRA and GQRA and presents a detailed quantitative risk assessment (DQRA) of the potential risks to controlled waters (namely groundwater and surface water) originating from soils and groundwater at the Site. The DQRA forms part of the tiered risk assessment stage of the Environment Agency's technical framework (which is adopted by NRW) for applying a risk management process when dealing with land affected by contamination. The main report text and associated study limitations should be read in conjunction with this summary.

RISK ASSESSMENT APPROACH

The PRA and GQRA identified potential risks to controlled waters from metals, total petroleum hydrocarbons (TPH), volatile organic compounds (VOC - namely the chlorinated hydrocarbon trichloroethene (TCE), TCE's degradation products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride (VC), and Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) (WSP-Golder, 2022). Due to on-going investigation work, PFAS contamination will be addressed separately and is not considered in this report.

Screening processes for soils and groundwater have been used to refine the areas and substances included in modelling undertaken within this DQRA. These can be summarised as follows:

- Identifying hydrocarbon bands that have low mobility in groundwater and excluding those from further assessment.
- Identifying substances not detected in groundwater in the last four monitoring rounds and excluding those from further assessment.
- Screening concentrations in groundwater against selected water quality standards (WQS) and excluding those substances from further assessment where no concentrations from the last four monitoring rounds exceed the WQS.
- Considering where metals have been stored or used on Site, including those for assessment that are also consistently present at a concentration above the WQS in groundwater during the last four monitoring rounds and where there is no evidence of similar upgradient concentrations.

- Looking at the locations where the VOC have been identified in soil and groundwater, and evaluating which substances should be modelled in soil and/or groundwater when cis-1,2- DCE and vinyl chloride are considered to be degradation products of TCE.

Groundwater data screening focussed on the results of the most recent four groundwater monitoring rounds, which are considered most representative of typical Site conditions, and afford the greatest passage of time from disturbance by intrusive activities whilst still providing an annual cycle of data.

The substances that remained in the DQRA after screening and were included in the modelling stage were as follows:

- >EC10-EC12 aromatic hydrocarbons in the Tank Farm, Effluent Treatment Plant and Boiler House areas (plus naphthalene in the boiler house area).
- >EC12-EC16 aromatic hydrocarbons in the Tank Farm, Effluent Treatment Plant and Boiler House areas.
- >EC16-EC21 aromatic hydrocarbons in the Tank Farm, Effluent Treatment Plant and Boiler House areas.
- TCE in the Tank Farm lagoon area and the Hazardous Waste/Oil Store area.
- Cis-1,2-DCE in the Tank Farm lagoon area.
- Vinyl chloride in the Main Factory Building area – groundwater source only.
- Lead in the Main Factory Building (battery bay) and Boiler House areas – groundwater source only.

RISK ASSESSMENT MODELLING

ASSESSMENT TOOL

Risk assessment modelling in ConSim has been completed for the substances that remained after screening. A ConSim level 2 assessment was completed for hazardous substance soil sources and a ConSim level 3 assessment was completed for non-hazardous pollutant soil sources. These models allow the potential risk of residual soil contamination to Controlled Waters to be considered. A ConSim level 3a assessment was completed for existing groundwater sources.

CONCEPTUALISATION

Source areas for the substances that remained after screening were developed based on soil concentration plots and groundwater concentration contour plots, and on desk-study information and previous investigations that indicate potential sources of contamination from the selected substances. The WQS used in this DQRA are typically for annual average concentrations, so source concentrations were also derived based on averages for the selected source areas. Soil source concentrations were solubility limited. Cautiously, no declining source has been used in the modelling of soil contamination.

The conceptual pathways considered in the assessment are the unsaturated and saturated alluvium. There is monitoring data evidence of degradation of TCE and there is the potential for TPH degradation at certain times of the year, so the risk assessment modelling includes degradation to varying degrees.

The River Ewenny, located at the site boundary is considered as the nearest surface water receptor in the assessment. The assessment also recognises the use of groundwater as a resource in the vicinity of the site.



RESULTS

The results of the conservative soil source model indicate that the following substances in soil continue to present a potentially unacceptable risk to controlled waters:

- >EC10-EC12 aromatic hydrocarbons from the Boiler House.
- >EC12-EC16 aromatic hydrocarbons from the Boiler House, Effluent Treatment Plant and Tank Farm sources.
- TCE from the Tank Farm lagoon source area and the Hazardous Waste/Oil Storage source area.

For these soil source areas, maximum theoretical contaminant concentrations in soil have been derived, by way of forward modelling, to support remediation,

The predicted concentrations of vinyl chloride at the compliance point from the existing groundwater plume are above the target concentrations. The groundwater plume associated with the TCE soil sources will be included within the remediation strategy for the Site. In addition, removal of TCE in soil is likely to reduce future vinyl chloride generation in groundwater.

It is understood as part of any planned works Ford intends to remove LNAPL free product from the locations it has been identified. The DQRA indicates that the dissolved concentrations of TPH in groundwater are currently below those that present a risk to the receptor.

Sensitivity models were run to consider higher groundwater source concentrations, and both a reduced unsaturated zone and increased infiltration in the soil source assessment. The results of these sensitivity tests do not change the overall findings of this assessment.

Contact name Heather Di Lauro

Contact details 01937 837800 | heather.dilauro@wsp.com

1 INTRODUCTION

1.1 TERMS OF REFERENCE

Ford Motor Company Limited ('Ford') has retained WSP to undertake a controlled waters risk assessment (CWRA) for the Bridgend Engine Plant (the 'Site'). The Site is located at the Waterton Industrial Estate, Bridgend, Vale of Glamorgan, Wales, CF31 3PJ.

The work detailed within this report has been completed in accordance with WSP proposal P21476577/6/V.0 dated 21 July 2023, and under the Ford Motor Company global terms and conditions for non-production goods and services FGT30, Rev. 12/07 effective December 01, 2007. WSP has provided the services described in a manner consistent with the level of care and skill ordinarily exercised by members of the engineering and science professions currently practicing under similar conditions in the jurisdiction in which the services are provided; subject to the time limits and physical constraints applicable to this scope of work. All information contained within this report should be read in the context of these documents and in the context of the study limitations.

1.2 BACKGROUND

The Site was owned by Ford from the late 1970s until April 2024 when it was sold to a new owner. Whilst owned by Ford the site was operated as a vehicle engine production plant (specifically petrol engines) until manufacturing ceased in 2020. Following closure a multi-phased environmental site assessment was undertaken to provide information relating to the current environmental conditions of the subsurface.

Several phases of intrusive investigation have been undertaken at the Site, which have included gas and groundwater monitoring. Investigations pre-2020 generally targeted known spills or incidents; with the predominant focus being around a petrol leak at the Engine Evaluation Laboratory and the identification of free phase product at the boiler house. Historic remediation work has been completed at both these locations.

To obtain a detailed description and understanding of the subsurface environmental conditions (soil, soil gas and groundwater) across the whole Site, Ford commissioned WSP (formerly Golder Associates) in June 2020 to complete an intrusive investigation that comprised over 800 investigation locations. The initial intrusive investigation work was completed between July 2020 and April 2021 and was followed by a further delineation investigation between September 2021 and January 2022. The work enabled an initial conceptual site model (CSM) to be developed and the necessary regulatory drivers to support Ford's business decisions to be defined.

The Environment Agency has developed a technical framework (which has been adopted by Natural Resources Wales (NRW), the regulator for Wales) for applying a risk management process when dealing with land affected by contamination. The process detailed in 'Land contamination risk management (LCRM)' (Environment Agency, 2020) involves identifying, making decisions on, and taking appropriate action to deal with land contamination in a way that is consistent with government policies and legislation within the UK. The guidance provides a procedure covering three main components: (1) risk assessment; (2) options appraisal; and (3) implementation of the remediation strategy. The risk assessment element is a tiered process, starting with a preliminary risk assessment (PRA), and then as necessary depending on the circumstances of the Site, a generic quantitative risk assessment (GQRA) and then a detailed quantitative risk assessment (DQRA).

A PRA and GQRA have been completed and identified a potentially unacceptable risk to controlled waters (groundwater and surface water) from several contaminants of concern (WSP-Golder, 2022). The GQRA identified pollutant linkages that are presented in Table 1-1.

Table 1-1 - Pollutant Linkages from WSP-Golder (2022)

Linkage	Contaminant/ Source	Pathway	Receptor
1	LNAPL at the Tank Farm and Boiler House	Volatilisation and migration of vapours, accumulation in sub-surface ducts, services, voids, basements, etc., inhalation.	Site Users
2		Dissolution of contaminants, vertical and lateral migration of dissolved contaminants in groundwater.	Groundwater, River Ewenny
3	Ground Gas (methane in car park area, grassed area to the northwest, Effluent Treatment Plant and Chip Plant)	Migration of gases, accumulation in sub-surface ducts, services, voids, basements, etc., inhalation.	Site Users
4	Contaminants in soil (chromium VI, 1,2,4-trimethylbenzene, TCE, TPH, PAH and PFAS)	Direct contact with contaminated soil, inhalation and ingestion of dust.	Site Users
5		Volatilisation and migration of vapours, accumulation in sub-surface ducts, services, voids, basements, etc., inhalation.	Site Users
6		Infiltration of rain, leaching of contaminants, and vertical/horizontal migration of dissolved contaminants in groundwater.	Groundwater, River Ewenny
7	Contaminants in groundwater (metals, VOC, TPH, PAH and PFAS)	Volatilisation and migration of vapours, accumulation in sub-surface ducts, services, voids, basements, etc., inhalation.	Site Users
8		Vertical and lateral migration of dissolved contaminants in groundwater.	Groundwater, River Ewenny
9		Migration of dissolved contaminants in the backfill surrounding sub-surface features or entering or exiting the drainage system.	Groundwater, River Ewenny

Notes: LNAPL – light non-aqueous phase liquids, TCE = trichloroethene, VOC = volatile organic compounds, TPH = total petroleum hydrocarbons, PAH = poly-cyclic aromatic hydrocarbons, PFAS = Perfluoroalkyl and Polyfluoroalkyl Substances. Subsequent to the development of the CSM sporadic LNAPL has been recorded in the Effluent Treatment Plant and Contractors Car Park. However, these have been one well per location and have generally not been repeated.



Since completion of the investigation works and associated monitoring, WSP has conducted additional site-wide groundwater monitoring rounds (June 2022, October 2022, March 2023 and May 2023) to add to the data already collected, provide a seasonal dataset and to provide more certainty to the CSM. This included the collection of natural attenuation parameters to assess if biodegradation of the petroleum hydrocarbon and chlorinated hydrocarbon contaminants can be applied in the DQRA.

1.3 SCOPE AND OBJECTIVES

The scope of this work is to build on the PRA and GQRA carried out previously and prepare a CWRA that represents the DQRA element of the Environment Agency's risk assessment process for contaminated land.

The objective of the CWRA is to determine if there is an unacceptable level of risk presented to controlled waters by the Site in its current condition and inform the remediation decision process where remedial action may be required. Where the potential requirement for remedial work is identified, model calculations will be undertaken for soil and groundwater to support in the development of a remedial strategy.

PFAS contamination will be addressed separately, so is not considered further in this CWRA.

2 CONCEPTUAL SITE MODEL AND DATA SCREENING

2.1 INTRODUCTION

An initial CSM was presented in the intrusive investigation report (WSP-Golder, 2022a). Figure 2-1 provides a visual representation of the CSM as described in that work, and the identified sources, pathways, and receptors described in Table 1-1.

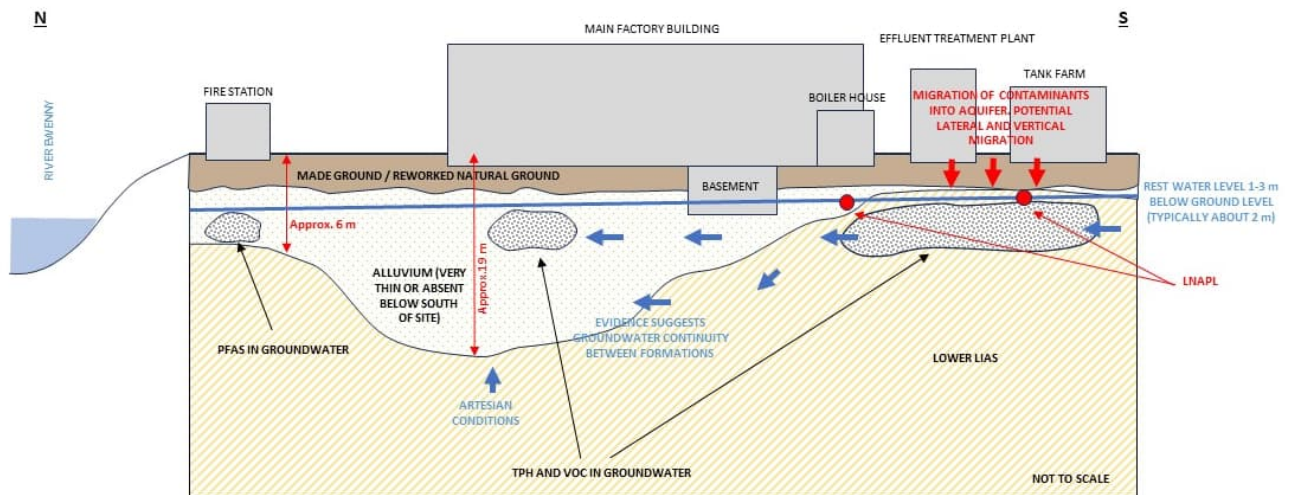


Figure 2-1 – Conceptual Model of Hydrogeology and Groundwater Contamination

The initial CSM has been built-upon as part of this DQRA to determine the most appropriate approach to the assessment process for the CWRA, and what input values and processes can be used within the quantitative assessment. The revised CSM that is specific to this CWRA is presented in this section.

2.2 SOURCE

In line with the LCRM guidance, the derivation of source locations and terms for both groundwater and soils builds upon the PRA and GQRA and focusses on a credible risk being presented to Controlled Waters. A combination of different lines of evidence has been used to develop the groundwater and soil sources considered in the DQRA and those are detailed more in the sub-sections below. The key aspects considered in the selection of soil and groundwater sources for the DQRA are as follows:

- Visual and olfactory evidence of contamination.
- The presence of NAPL.
- Supporting information from PRA desk study and input from Ford on site use.
- Soils analytical data highlighting locations of elevated concentrations of the contaminants identified in the GQRA.

- The presence of persistent, i.e. sustained over consecutive rounds, evidence of groundwater contamination above WQS. Rather than exceedance of human health criteria in soil, the presence of groundwater contamination associated with the soil is the preferred indicator of soil sources requiring consideration. This is considered reasonable in the site context, given the length of time (i.e. decades)¹ since contamination would have first occurred, the shallow depth of soil above the water table, the closely spaced borehole monitoring network installed across the site and that beyond the source areas already identified no mobile NAPL has been detected. Groundwater quality is therefore considered a robust indicator in that any subsequent contaminant breakthrough from shallow residual soil contamination would not be expected due to such contamination being sufficiently bound to the soil such that it is immobile, or of such low mobility its input rate would not credibly result in an unacceptable impact to groundwater. The role of current infiltration rates (significant areas of the site are covered by hardstanding) is acknowledged in making this assumption. The infiltration rate to parts of the site could change in the future upon redevelopment. Comparison of current and proposed ground cover layouts should be made in order to maintain the validity of this assumption. The potential effect of future climate change in increasing recharge rates should also be considered.

Judgment has been used on the basis of the above factors to derive those substances/sources considered to represent a credible risk to groundwater (Sections 2.2.1 and 2.2.4).

2.2.1 IDENTIFYING GROUNDWATER SUBSTANCES AND ASSOCIATED SOURCES FOR DQRA

The sources, excluding PFAS, with a Controlled Waters receptor that were initially identified in the GQRA (see Table 1-1) are carried forward into this CWRA. Based on the GQRA, the following substances have been considered for inclusion in this CWRA:

- Metals. Based on preliminary screening against drinking water and environmental quality standards in the GQRA, these may include arsenic, boron, cadmium, chromium VI, copper, lead, mercury, nickel, selenium, vanadium and zinc.
- TPH aliphatic and aromatic fractions comprising a complex mixture of individual BTEX (benzene, toluene, ethylbenzene and xylene).
- PAH.
- VOCs, namely the chlorinated hydrocarbon TCE and its degradation products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride.

TCE, vinyl chloride, arsenic, chromium VI, lead and mercury are classified as hazardous substances (UKTAG, 2018). For the purposes of this assessment, it is assumed that the aliphatic and aromatic fractions could contain hazardous substances because, where classified, most BTEX and PAH are hazardous substances. Naphthalene and cis-1,2-DCE are classed as non-hazardous pollutants. All other metals are either non-hazardous pollutants or are unclassified so will be treated as non-hazardous pollutants for this assessment.

The following process has been used to further refine the source substances carried forward for DQRA. In refining the groundwater sources, the following assumptions have been made:

¹ Assumed to be a minimum of 30 years for legacy contamination based on discussions with Ford and the timing of development of modern robust environmental management systems at the Bridgend Site

- The conclusions of the GQRA are unchanged (i.e. there are no additional substances to carry forward into this DQRA).
- The monitoring wells that have been previously assigned to specific areas of the Site as part of the monitoring programme (e.g. the boiler house, the Waterton Centre, or the Main Factory Building) present representative timeseries data for the conditions in each area and can be used to give an initial understanding of issues at, and beneath, each part of the Site. The assigned groupings used in the monthly monitoring reports have not been changed.
- Groundwater samples from boreholes with different installation depths have been considered as a single dataset to produce a representative groundwater quality for that location. The geology in some parts of the Site comprises made ground overlying alluvium which in turn overlies Blue Lias, and in other parts of the Site comprises made ground directly overlying the Blue Lias. Depth of installation alone does not determine the strata being monitored. It is acknowledged that samples from different installation depths may have been taken from different strata, but the lithologies beneath the Site are considered to be in hydraulic continuity, so represent a continuous water body. The assessment approach also largely uses annual average water quality standards (see Section 1.1.1), so using an average groundwater quality as the input is considered to be an appropriate approach. However, a 95th percentile concentration has been used as well as a mean to understand the sensitivity to this (see model scenarios, Section 4.3).
- The additional groundwater data collected as part of the most recent four monitoring rounds between June 2022 and May 2023 (i.e. post the investigative works being completed) represent an annual cycle and are considered most representative of typical conditions at the Site; affording the greatest passage of time from disturbance by intrusive activities whilst still providing an annual cycle of data. The monitoring undertaken during these four rounds was site-wide, covered multiple installation depths, and analysis included a consistent and comprehensive set of determinands. Many of the locations included in this year of additional monitoring were visited on all four of the monitoring rounds.

Metals

The findings of the GQRA with respect to metals in groundwater can be summarised as follows:

- Metals detected at concentrations above the UK DWS included arsenic, boron, cadmium, chromium VI, lead, mercury, nickel and selenium.
- Metals detected at concentrations above the FW EQS included boron, cadmium, chromium (including chromium VI), copper, lead, mercury, nickel, vanadium, zinc.
- Lead and nickel concentrations were typically detected at concentrations the greatest number of times over their respective WQS. Exceedances for the WQS for these substances were primarily in the central main building and the Boiler House and Tank Farm.
- There was no obvious spatial trend for the other metals.

Since the GQRA, metal concentrations in groundwater have continued to be monitored on a site-wide basis. The concentrations in groundwater from the last four monitoring rounds for those metals carried forward from the GQRA have been screened against selected water quality standards (WQS, see section 2.5.3). The results of that screening are presented in Table 2-1. The screening has also been augmented by reference to the Phase 1 ESA (Arcadis, 2021), discussions with Ford about the metals used in processes on Site, which, where relevant, has been added to the table comments.

Table 2-1 – Source Screening of Metals

Metal	Comments	Carried Forward for DQRA
Arsenic	Concentrations in groundwater from last four monitoring rounds occasionally exceed DWS but not EQS. Ford holds no records of arsenic use or storage at the Site. No credible source.	No
Boron	Persistent exceedances of WQS (2 mg/l) in groundwater taken from boreholes C194 (max. 6.253 mg/l), C241 (max. 8.406 mg/l), C404 (max. 2.953 mg/l) and HR172A (max. 2.188 mg/l) in the last four monitoring rounds. These boreholes are not located in a specific part of the site and all boreholes sampled between these locations returned concentrations below the WQS. No evidence of a plume.	No
Cadmium	Site-wide exceedances of WQS in data from last four monitoring rounds. No pattern or evidence of plume. Cadmium has been detected in groundwater in boreholes located along the southern and southeastern sides of the Site (e.g. C167, C181, C195, C206 and C259) that are up/cross gradient of the Site, and the concentrations at C259 also exceed the WQS. Potential presence in natural geology.	No
Chromium VI	One WQS exceedance on one occasion in one borehole in data from last four monitoring rounds. No evidence of notable groundwater contamination/plume.	No
Copper	Site-wide exceedances of WQS in data from last four monitoring rounds, including at up gradient location C259. No pattern or evidence of plume. Ford holds no records of copper use or storage at the Site. No credible source.	No
Lead	Site-wide exceedances of WQS in data from last four monitoring rounds. Highest concentrations detected in boreholes located in the Main Factory Building AJ machining area (specifically the battery bay) and the Boiler House area. Not typically detected at the up/cross gradient locations. Ford reports the presence of battery charging and storage. Include in DQRA for precautionary purposes.	Yes
Mercury	Some WQS exceedances in data from last four monitoring rounds. Persistent exceedances at DD21 and DD22 (AJ machining area) and highest concentrations at HR085 (Sigma Machining - detected on two of the last four rounds). Locations of WQS exceedances in groundwater data do not tie into locations where mercury has been detected in soils. Ford reports no known use or storage of mercury on Site.	No
Nickel	Site-wide exceedances of WQS in data from last four monitoring rounds. No pattern or evidence of plume. With the exception of the presence of a self-contained Nikasil Plant at a single location at the Site, Ford holds no records of nickel use or storage at the Site. No credible source.	No
Selenium	WQS exceedance at one borehole only (HR008 located north of the Main Factory Building) in data from last four monitoring rounds. No evidence of notable groundwater contamination/plume.	No
Vanadium	No concentrations in groundwater from last four monitoring rounds exceed WQS.	No
Zinc	Site-wide exceedances of WQS (10.9 ug/l) in data from last four monitoring rounds. No pattern or evidence of plume. Zinc has been	No

Metal	Comments	Carried Forward for DQRA
	detected in groundwater in boreholes located along the southern and southeastern sides of the Site (e.g. C181, C195, C206, C259, C268, C270, C272, C273A, C280, C281) that are up/cross gradient of the Site, and some measured concentrations at C206, C195 and C259 are up to 89.6 ug/l, which exceeds the WQS. On-Site concentrations in groundwater in the last four monitoring rounds (max. 129.3 ug/l) are similar to the upgradient concentrations. Potential presence in natural geology.	

The distribution of metals concentrations in groundwater along with information on the use or storage of metals on site do not suggest credible source areas for consideration in the DQRA, with the possible exception of lead. Exceedances of lead in groundwater are located close to the battery bay within the Main Factory Building where batteries were charged and stored; although, it is unclear from the available information whether a credible pathway could have existed for lead in these batteries to have migrated to groundwater. Exceedances are observed in the southwest corner of the site close to the Boiler House where there is desk study information that suggests petrol was historically lost to ground. It is uncertain whether lead as a petrol additive had the potential to increase lead concentrations in groundwater at this location. Lead is relatively immobile in groundwater and long travel times in the groundwater pathway are expected; nonetheless, cautiously and to address uncertainty, lead has been included in the groundwater DQRA to provide reassurance.

TPH and Chlorinated Hydrocarbons

The TPH aliphatic and aromatic fraction data comprises a complex mixture of individual BTEX and PAH. The CL:AIRE (2017) guidance sets out a table describing suitable fate and transport properties for individual indicator PAH and BTEX compounds according to TPH band. The table is reproduced in Figure 2-2. According to CL:AIRE (2017), the number of contaminants considered in any assessment can be reduced by eliminating those compounds that have a very low solubility in water and/or are poorly mobile in the subsurface environment. The table reproduced in Figure 2-2 lists the compounds in the following hydrocarbon bands as having very low aqueous solubility and very low overall relative mobility, such that they are not expected to be present in groundwater in excess of water quality standards:

- >C12-C16 Aliphatics.
- >C16-C21 Aliphatics.
- >EC21-EC35 Aromatics.

These TPH bands are, therefore, excluded from further assessment. It is assumed that the >C21-C35 aliphatic fraction will have equivalent or lower solubility and mobility than that of the >C16-C21 aliphatic fraction and therefore it is also excluded from further assessment.

Carbon band range	Recommended petroleum hydrocarbon CoPC indicators and their EC values	Partition coefficient, K_{ow}		Aqueous solubility		Overall relative mobility in groundwater
		Value (l/kg)	Potential sorption ranking	Value (mg/l)	Potential mobility ranking	
Aliphatics EC5–EC8	n-hexane (6)	7.9×10^2	high	3.6×10^1	moderate	high
Aliphatics >EC8–EC8	n-heptane (7)	4.0×10^3	moderate	5.4	moderate	moderate
Aliphatics >EC8–EC10	n-octane (8) n-nonane (9)	3.2×10^4	low	4.3×10^{-1}	low	low
Aliphatics >EC10–EC12		2.5×10^5	low	3.4×10^{-2}	low	low
Aliphatics >EC12–EC16		5.0×10^6	very low	7.6×10^{-4}	very low	very low
Aliphatics >EC16–EC21		6.3×10^8	very low	3.0×10^{-6}	very low	very low
Aromatics EC5–EC7	benzene (6.5)	7.9×10^1	high	1.8×10^3	high	high
Aromatics >EC7–EC8	toluene (7.6)	2.5×10^2	high	5.9×10^2	high	high
Aromatics >EC8–EC10	xylene (8.6–8.8) ethylbenzene (8.5) 1,2,4-trimethylbenzene (9.8)	1.6×10^3	moderate	6.5×10^1	high	high
Aromatics >EC10–EC12	naphthalene (11.7)	2.5×10^3	moderate	2.5×10^1	moderate	moderate
Aromatics >EC12–EC16	2-methylnaphthalene (12.8) acenaphthylene (15.1) acenaphthene (15.5)	5.0×10^3	moderate	5.8	moderate	moderate
Aromatics >EC16–EC21	fluorene (16.6), anthracene (19.4), phenanthrene (19.4), pyrene (20.8)	1.6×10^4	low	6.5×10^{-1}	low	low
Aromatics >EC21–EC35	benzo[a]pyrene (31.3) benzo[b]fluoranthene (30.1) benzo[k]fluoranthene (30.1) benzo[ghi]perylene indeno[1,2,3-cd]pyrene (35.0)	1.3×10^5	very low	6.6×10^{-3}	very low	very low

Figure 2-2 - Mobility Ranking of Petroleum Hydrocarbon Fractions (CL:AIRE, 2017)

The following process has been completed to further refine the groundwater source substances to be selected for DQRA with respect to TPH fractions, specific BTEX and PAH, and chlorinated hydrocarbons, and the decision process is documented in Table 2-2:

- Consider timeseries graphs of groundwater concentration (Appendix A) for potential source substances and locations identified in the GQRA. If the concentrations above the limit of detection (LOD) in groundwater were only recorded in the initial round(s) when the site investigation was underway, and the results in the last four monitoring rounds (June 2022 to May 2023) are all below the LOD the substance is not considered further.
- Screen the concentrations from anywhere on Site that were above the LOD from in the last four monitoring rounds (June 2022 to May 2023) against appropriate WQS (see section 2.5.3 for WQS selection process). If all concentrations are below the WQS, the substance is not considered further. The locations of WQS exceedances are shown in Appendix B.
- Groundwater concentrations for the last four rounds have been contoured and overlain onto soil concentration plots to indicate where soil and groundwater hot-spots correlate and are most likely to indicate a source area that should be modelled². The contouring of chlorinated hydrocarbons also allows consideration of TCE and its degradation products along the soil-groundwater pathway to aid interpretation of whether soil, groundwater, or both soil and groundwater sources should be modelled for each substance. Where groundwater hot-spots on the contour plots are a result of a single concentration measurement and all other measurements made in the last four monitoring rounds were below the LOD, this is not considered indicative of groundwater contamination and the potential groundwater source has not been considered further. Images of the contour plots are included in Appendix B.
- Consider desk-study information and previous investigations that indicate potential sources of contamination from the selected substances to allow the association of known or suspected contamination events with potential soil and groundwater source areas.

² Note that the groundwater contour plots have been used to help identify clusters of elevated concentration results only. The plots have not been adjusted for anisotropy in the geology, known groundwater flow direction, large ranges in concentration or the likelihood of sharp rather than gradational boundaries. Where there is limited data, particularly near the edge of the dataset and the visual effect of interpolation is potentially significant, the images presented have not been cropped or edited.

Table 2-2 – Refined Substance Screening of Groundwater Quality Data for TPH (including BTEX and PAH) and Chlorinated Hydrocarbons

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
>C5-C6 aliphatics Effluent Treatment Plant	No graphs generated for the Effluent Treatment Plant as all concentrations below LOD in boreholes assigned to this area.	WHO guideline value for drinking water for aliphatic C5-C6 is 15,000 ug/l. Only detection in groundwater anywhere on Site in the last four monitoring rounds was at HR011 (27 ug/l), which is located towards the northern side of the Main Factory Building.	None	No – no concentrations above WQS in groundwater in last four rounds.
>C6-C8 aliphatics - Tank farm - Boiler house - Effluent Treatment Plant	Potentially. Some recent results >LOD. Results often fluctuate between detects and <LOD, which is most likely to be a result of localised seasonal changes in groundwater levels and flow.	WHO guideline value for drinking water for aliphatic C6-C8 is 15,000 ug/l. Max. concentration in last four rounds is 164 ug/l (TR075 – Tank Farm). Max. concentration less than WQS.	Results often fluctuate between detects and <LOD in most locations. Consistently detected at HR014 (northern part of main building) and at T075 (Tank Farm)	No – most locations show only occasional detects and all concentrations in last four rounds below WQS.
>C8-C10 aliphatics - Tank farm - Boiler house - Effluent Treatment Plant	Potentially. Some recent results >LOD. Results often fluctuate between detects and <LOD, which is most likely to be a result of localised seasonal changes in groundwater levels and flow. Possible decreasing trend in Boiler House area.	WHO guideline value for drinking water for aliphatic C8-C10 is 300 ug/l. Max. concentration in groundwater in last four rounds is 93 ug/l (HR011 - northern part of main building). Max. concentration less than WQS.	Results often fluctuate between detects and <LOD in most locations. More consistently detected in BH725 and HR062 (Effluent Treatment Plant).	No – most locations show only occasional detects and all concentrations in last four rounds below WQS.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
>C10-C12 aliphatics - Tank Farm - Boiler House - Effluent Treatment Plant - Waterton Centre	Potentially. Tank Farm, Boiler House and Effluent Treatment Plant only. Some recent results >LOD. Results often fluctuate between detects and <LOD, which is most likely to be a result of localised seasonal changes in groundwater levels and flow. Possible decreasing trend in boiler house area.	WHO guideline value for drinking water for aliphatic C10-C12 is 300 ug/l. Max concentration in groundwater in last four rounds is 843 ug/l (BH004 – Boiler House - in June 2022 only). Concentration at same location is 73 ug/l in October 2022 and <LOD in both March 2023 and May 2023. Concentrations at other locations below WQS.	Detected at seven locations but results often fluctuate between detects and <LOD. Appears to be restricted to the southeast area of the Site around the Effluent Treatment Plant, Tank Farm and Boiler House. More consistently detected at T040, which is located in the Engine Evaluation Laboratory/Effluent Treatment Plant area) and T063 (Tank Farm area)	No – no credible groundwater source. Only detected once at one location at concentrations above the WQS in last four monitoring rounds.
>EC5-EC7 aromatics (benzene) - Tank Farm - Boiler House	No. Fraction not detected in these areas. Benzene only occasionally detected, and results often fluctuate between detects and <LOD, which is most likely to be a result of localised seasonal changes in groundwater levels and flow.	Freshwater EQS for benzene and WHO guideline value for EC5-7 of 10 ug/l. Max. concentration in last four rounds is 0.8 ug/l, which is below the WQS.	Fraction not detected in last four groundwater monitoring rounds. Benzene detected in Boiler House / Effluent Treatment Plant area, but not in the Tank Farm area.	No – fraction not detected in last four rounds. All benzene concentrations below WQS.
>EC7-EC8 aromatics (toluene) Effluent Treatment Plant	No. Fraction and toluene not detected in groundwater at concentrations above the LODs in last four monitoring rounds.	WHO guideline value for this fraction is 700 ug/l. Freshwater EQS for toluene is 74 ug/l. Never detected at concentrations above these WQS.	Fraction and toluene not detected in groundwater at concentrations above the LODs in last four monitoring rounds. Only detected once at HR052 (10 ug/l – Effluent Treatment Plant) and once at DD28 (5 ug/l – northern part of	No – not detected in groundwater in the last four monitoring rounds.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
			Main Factory Building) since start of 2021. LOD is 5 ug/l.	
>EC8-EC10 aromatics (xylene, ethylbenzene) - Tank Farm - Boiler House - Effluent Treatment Plant	Potentially in Boiler House / Effluent Treatment Plant area – most concentrations below LOD, but some above LOD. The fraction, ethylbenzene and xylene were only ever detected at concentrations >LOD in the Tank Farm area during initial round(s) when Site was being disturbed by extensive drilling. Since then all <LOD in Tank Farm area.	WHO guideline value for this fraction is 300 ug/l (if lowest applicable limit for ethylbenzene is adopted). Fraction detected only once in last four rounds (HR011, northern part of main building; 86 ug/l). Value below WQS. WHO guideline value for ethylbenzene is 300 ug/l. Ethylbenzene detected six times at three different locations (BH004 in Boiler House area, DD07 in southwestern part of Main Factory Building and HR11 in northern part of Main Factory Building) in last four rounds. Max. concentration 9 ug/l. Values below WQS. Freshwater EQS for xylenes is 30 ug/l. WHO guideline value for xylene is 500 ug/l. In last four rounds, xylene detected once at HR011 (northern part of main building; 56 ug/l p/m-xylene and 24 ug/l o-xylene).	No persistent detections of this fraction or its indicator substances. Fraction and ethylbenzene concentrations all below WQS. Location of above LOD xylene concentrations in last four years - p/m-xylene detected in DD07 (southwestern part of Main Factory Building), HR011 (northern part of Main Factory Building), HR052 (Effluent Treatment Plant). Max. concentration 6 ug/l; less than WQS. - o-xylene detected in BH725 (Effluent Treatment Plant), DD07 (southwestern part of Main Factory Building), HR011 (northern part of Main Factory Building), HR052 (Effluent Treatment Plant), HR172 (Effluent Treatment Plant).	No – no credible groundwater source area. Single exceedance of WQS for xylene at one location in one monitoring round only.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
		Xylene concentration slightly above Freshwater EQS, but one result in one borehole on one occasion.	Most concentrations 3 ug/l or below; less than WQS. Single higher concentration at HR011 (56 ug/l p/m-xylene and 24 ug/l o-xylene).	
>EC10-EC12 aromatics (naphthalene) - Tank Farm - Boiler House - Effluent Treatment Plant - Waterton Centre	Yes. Tank Farm, Boiler House and Effluent Treatment Plant only. EC10-12 consistently detected >LOD in multiple locations. Naphthalene less conclusive, results often fluctuate between detects and <LOD, and rarely above LOD of 0.1 ug/l.	WHO guideline value for drinking water for this fraction is 90 ug/l. Persistent exceedances in groundwater in last four monitoring rounds at BH004 (Boiler House) and T060 (Tank Farm). Freshwater EQS for naphthalene is 2 ug/l. Exceedances occasional and mostly just over the EQS (9 ug/l or less, except at 12 ug/l and a 51.4 ug/l at BH004 – Boiler House).	Fraction and / or indicator detected on Site at various locations. Areas of highest concentrations of the fraction appear restricted to the Tank Farm, Boiler House and Effluent Treatment Plant areas. Naphthalene present in similar areas and also downgradient under Main Factory Building, main interceptor and car / lorry parking areas. Fluctuates between being detected and not, and concentrations are close to EQS in most cases. Highest concentrations detected in area of Boiler House. Naphthalene is a PAH commonly found in petrol. It is noted in Arcadis (2021) that underground storage tanks (UST) for petrol were located in the Tank Farm	Yes (Tank Farm, Effluent Treatment Plant and Boiler House) – fraction and indicator consistently detected. Some results exceed the WQS. Naphthalene also carried forward in the assessment as a stand-alone substance due to concentrations detected in the Boiler House area. Where the suspected source of the hydrocarbon fraction is petrol, CL:AIRE (2017) table 5.2 recommends assessing naphthalene.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
			area, next to the Engine Evaluation Laboratory. There was both above and underground pipework associated with these. Additional USTs for petrol storage were located behind the Engine Evaluation Laboratory (where fuel loss has been addressed previously) and outside the northwest corner of the Main Factory Building.	
>EC12-EC16 aromatics (acenaphthene, acenaphthylene) • Tank Farm • Boiler House • Effluent Treatment Plant • Waterton Centre	Yes. Concentrations of both the fraction and the representative indicators consistently >LOD (Tank Farm, Boiler House and Effluent Treatment Plant).	WHO guideline value for drinking water for this fraction is 90 ug/l. Persistent exceedances at some Boiler House and Tank Farm monitoring locations. Occasional exceedances in the Effluent Treatment Plant area.	Contoured last four rounds of monitoring data. Areas of highest concentrations appear restricted to the Tank Farm, Boiler House and Effluent Treatment Plant areas. Fraction not detected in boreholes located in the Waterton Centre area in the last four monitoring rounds. Diesel/heating oil is usually indicated by the presence of hydrocarbon fractions C8 to C21 and heavy fuel oils are indicated by the presence of C12+ fractions (CL:AIRE, 2017). It is noted in Arcadis (2021) that diesel and	Yes (Tank Farm, Effluent Treatment Plant and Boiler House) – consistently detected and some results exceed the WQS. Hydrocarbon fraction only. CL:AIRE (2017) table 5.2 recommends assessing the fraction where diesel/heating oil or heavy fuel oils are the suspected source.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
			gas oil (another diesel range hydrocarbon) were stored in above ground storage tanks (AST) in the Tank Farm and Boiler House areas. Free-phase diesel was remediated in the Boiler House area in 2020. There is heavy staining and anecdotal evidence of leaks in the Tank Farm area. Some of the ASTs in the Effluent Treatment Plant area were used to store oil emulsion. Light NAPL (LNAPL) has recently been identified in the Boiler House and Tank Farm areas (WSP-Golder, 2022)	
>EC16-EC21 aromatics (fluorene, anthracene, phenanthrene, pyrene) • Tank Farm • Boiler House • Effluent Treatment Plant • Waterton Centre	Yes. Tank farm, Boiler House and Effluent Treatment Plant only. Concentrations of the fraction often fluctuate between detects and <LOD. Fluorene and phenanthrene more consistently detected.	WHO guideline value for drinking water for this fraction is 90 ug/l. Persistent exceedances at some Boiler House and Tank Farm monitoring locations. Occasional exceedances in the Effluent Treatment Plant area.	The distribution of EC16-EC21 aromatics is similar to that described for >EC12-EC16 aromatics (see above table entry).	Yes (Tank Farm, Effluent Treatment Plant and Boiler House) – consistently detected and some results exceed the WQS. Hydrocarbon fraction only. CL:AIRE (2017) table 5.2 recommends assessing the fraction where diesel/heating oil or heavy fuel oils are the suspected source.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
Trichloroethene (TCE) - Tank Farm - Main Factory Building - Hazardous Waste/Oil Storage area	Yes. Concentrations commonly >LOD, particularly T075 (Tank Farm).	Freshwater EQS is 10 ug/l. Concentrations above this in groundwater in last four monitoring rounds at T075, C244, DD05. T075 and DD05 are located in the Tank Farm lagoon area. C244 is located in the Hazardous Waste/Oil Storage area.	Only detected in groundwater towards the southern boundary of the Site. Detections above LOD are in the Tank Farm lagoon area and the Hazardous Waste/Oil Storage area. Not detected in groundwater beneath the Main Factory Building. TCE was reportedly used on CVH line located in the northwest portion of what is now the Sigma assembly area; close to the Chip Plant and Hazardous Waste/Oil Storage area (Arcadis, 2021). Waste TCE transferred to either the Effluent Treatment Plant or the lagoon adjacent to the Tank Farm.	Yes (Tank Farm lagoon; and Hazardous Waste/Oil Storage area) – concentrations in groundwater exceed WQS.
Cis-1,2-dichloroethene (cis-1,2-DCE) - Tank Farm - Main Factory Building - Hazardous Waste/Oil Storage area	Yes. Concentrations commonly >LOD in Tank Farm area, Main Factory Building, and the Hazardous Waste/Oil Storage area.	WHO guideline value for drinking water is 50 ug/l. Concentrations exceed this at C198, HR018, HR022, DD05, HR014, T075, C203; and regularly at HR014 (northern part of main building) and T075 (Tank Farm). Concentrations all below WQS in Hazardous Waste/Oil Storage area.	Present in groundwater towards the southern boundary of the Site (same areas as TCE or slightly northwest - downgradient) and beneath the northern part of the Main Factory Building. No TCE detected beneath northern part of main building, so cis-1,2-DCE in that area likely to represent plume originating from southern	Yes (Tank Farm lagoon) – concentrations in groundwater exceed WQS.

Organic Substance identified in GQRA and relevant locations (hydrocarbon indicators in brackets)	Does the time series data support potential inclusion in model?	Screening of all data from last four monitoring rounds against selected WQS	Comments	Substance to be carried forward in DQRA
			boundary in area of the Tank Farm lagoons.	
Vinyl chloride (VC) - Tank Farm - Main Factory Building - Hazardous Waste/Oil Storage area	Yes. Results often fluctuate between detects and <LOD, but concentrations >LOD in parts of the Site.	UK DWS is 0.5 ug/l. 122 values above this across the Site in groundwater in the last four monitoring rounds. Max. concentration 16.8 ug/l (HR049 located towards the centre of the Main Factory Building). Regularly detected, and at concentrations above WQS, in the Hazardous Waste/Oil Storage area, and Main Factory Building area. Not regularly detected in groundwater at concentrations above the WQS in Tank Farm area.	Present close to, and downgradient of, areas with TCE and cis-1,2-DCE. Likely to represent degradation product in plume originating from southern boundary. VC mainly detected at concentrations above the WQS in groundwater beneath, and northwest of, the Hazardous Waste/Oil Storage area, and beneath the northern part of the Main Factory Building. Occasionally detected elsewhere, but usually below the WQS. Highest concentrations close to Hazardous Waste/Oil Storage area and beneath the centre of the Main Factory Building.	Yes (Main Factory Building; and Hazardous Waste/Oil Storage area) – highest concentrations above the WQS focused in these parts of the Site.

2.2.2 DEFINING GROUNDWATER SOURCE AREA BOUNDARIES FOR SUBSTANCES SELECTED FOR DQRA

Groundwater source areas have been identified for the substances selected for DQRA (as per Table 2-2), which is in turn built upon the LCRM process of desk study, PRA and GQRA. The source areas are shown as polygons on the images presented in Appendix C. The refined groundwater source areas have been defined using a combination of the following information:

- Groundwater concentration contour plots (used to identify areas where the highest concentrations occur and identify the areas on which to focus further decision making).
- Information about where substances have been detected in the last four groundwater monitoring rounds and where they have not (used to determine if exceedances of the WQS have been single, isolated events and all other results have been below LOD, and to help limit the lateral extent of the source areas).
- Information about where the WQS have been exceeded in the last four groundwater monitoring rounds (used to determine if exceedances of the WQS have been single, isolated events and all other results have been below the WQS).
- The location of the highest soil concentrations (to determine if there is a possible soil source associated with the groundwater contamination).
- Information presented in previous reports about where substances were used, stored or known to have leaked.

Groundwater source areas for aromatic hydrocarbons that will be assessed have been defined around the Tank Farm, the Boiler House and the Effluent Treatment Plant using this combined information set. The previous environmental work summarised in WSP-Golder, 2022 indicates petrol and heavier end hydrocarbon use, storage and leaks in these areas. The same source area is applicable for each of the aromatic hydrocarbon fractions. The naphthalene source area for groundwater focusses on the area around the Boiler House. As with the aromatic hydrocarbons, there is a credible source associated with use and storage in this area. The groundwater monitoring data also indicates that the only borehole where naphthalene has been detected both at concentrations above the LOD and above the WQS on more than one occasion in the past four monitoring rounds is BH004, so the source area conservatively covers this location and the immediate surrounds between it and the nearest boreholes where naphthalene has not been detected in groundwater.

TCE has been identified as the chlorinated solvent that was used on Site in the 1980s (Arcadis, 2021). TCE was reportedly used on CVH line located in the northwest portion of what was the Sigma assembly area; close to the Chip Plant and Hazardous Waste/Oil Storage area. The CVH line was removed in 1995. TCE was disposed of via a pit, which was then emptied via a sump pump and the contents of the pit transferred via pumps to either the Effluent Treatment Plant or the lagoon adjacent to the Tank Farm (which of these locations has not been able to be confirmed).

Groundwater source areas have been defined for TCE in the Tank Farm lagoon area and the Hazardous Waste/Oil Storage area. In the last four monitoring rounds, TCE has only been detected in groundwater in these areas (boreholes C198, C203, C244, DD05 and T075), which also correlates with the areas of use and storage before disposal. These same locations are where TCE has also been detected since the start of the 2020 Site-wide intrusive investigation works. No TCE has been detected at concentrations above the LOD in any other part of the Site.

The presence of cis-1,2-DCE in soils and groundwater and VC in groundwater most likely represent along-pathway degradation of TCE. The anaerobic biotic half-life of TCE is up to 1,000 days and, in the absence of data about the half-life of cis-1,2-DCE, the anaerobic biotic half-life of 1,1-DCE is up to 173 days. About 30 years (10,950 days) have passed since the mid-1990s, which means TCE will have passed through about 11 half-lives and DCE will have passed through over 60 half-lives. This means that, assuming there has been no further addition of TCE to the source, that much of the TCE will have degraded to DCE and then to VC, and that it is likely that VC concentrations in the groundwater plume have peaked and stabilised; with some onwards degradation to ethene and ethane. This is supported by the consistent extent of where cis-1,2-DCE and VC are being detected in groundwater, and the detection of ethene and ethane.

Therefore, for TCE degradation products cis-1,2-DCE and VC, the groundwater source areas have been defined to focus on the core where there is most potential ongoing risk to groundwater. This involved selecting areas where groundwater concentrations persistently exceed the WQS and are the highest. The wider, lower concentration plume detected on Site is interpreted as being generated by this core area.

Cis-1,2-DCE is only detected in groundwater at concentrations above the WQS of 50 ug/l around the Tank Farm lagoon area (concentrations between about 60 and 420 ug/l) and beneath the northern part of the Main Factory Building (lower concentrations between 75 and 100 ug/l). It has been detected around the Hazardous Waste/Oil Storage area, but at concentrations of 25 ug/l or less, which are below the WQS, so the recent groundwater concentrations around the Hazardous Waste/Oil Storage area do not represent a risk to Controlled Waters. No TCE has been detected beneath the Main Factory Building, which supports cis-1,2-DCE in this area being a degradation product of an up-gradient TCE source. The highest concentrations of cis-1,2-DCE are detected around the tank farm lagoon area. The lower concentrations detected beneath the Main Factory Building are interpreted to result from the Tank Farm source area, so the area from which the ongoing potential risk from cis-1,2-DCE is considered to be originating is the Tank Farm source area, which will be modelled.

VC is further down the TCE dechlorination pathway and is detected in more locations than cis-1,2-DCE and at concentrations that more regularly exceed the WQS of 0.5 ug/l. Given the time since TCE was reportedly used on Site it might be expected that much of the TCE has degraded to VC or beyond. The core of the VC plume is also further down the aquifer pathway, which is indicated by the largest number of detections above LOD and exceedances of WQS being recorded in boreholes located beneath the central and northern parts of the Main Factory Building. The highest VC concentrations (typically between about 5 and 15 ug/l) are consistently detected beneath the central part of the Main Factory Building in samples taken from boreholes such as C106, DD21, HR030 and HR049. The concentrations at these locations were similar throughout the four recent monitoring rounds, and in the monitoring undertaken since the start of the 2020 Site-wide intrusive investigation works. This area is considered to be the core of the VC plume generated by TCE degradation. The concentrations measured cross and down gradient of this area are typically less than 1 ug/l. Additionally, a smaller cluster of VC concentrations that exceed the WQS are located around, and northwest of, the Hazardous Waste/Oil Storage area. The highest concentrations in this area are about 3 ug/l at boreholes C404 and HR148, and lowest concentrations of 1.5 ug/l or less are measured at down gradient locations such as DD08, HR150 and HR151. This is considered to represent degradation of the TCE source located at the Hazardous Waste/Oil Storage area. VC core source areas will be modelled for the Hazardous Waste/Oil Storage area and the central part of

the Main Factory Building and will focus on the areas where the highest concentrations are consistently recorded.

During the last four monitoring rounds, ethene has only been detected at locations DD27 and HR049 and ethane has only been detected at DD27. Looking back at the wider dataset gathered since the start of the 2020 Site-wide intrusive investigation works, ethene has been mainly detected at locations beneath the Main Factory Building (i.e. DD13, DD15, DD23, DD27, DD28, C106 and HR049) that are mainly in and around the core of the VC plume. Ethane has been detected at the same locations, plus others near the Chip Plant (DD03B and DD04) and more widely beneath and down gradient of the Main Factory Building (e.g. DD07, DD14B, DD19 and DD34).

Two lead source areas have been defined; one below the battery bay area of the Main Factory Building, and one near the Boiler House. The source area boundaries have been selected to focus on core groups of boreholes that are both 1) where higher concentrations relative to the surrounding groundwater have been recorded during most of the four latest monitoring rounds, and 2) confined to areas where lead or lead containing material has been used or stored.

2.2.3 DEVELOPING REPRESENTATIVE GROUNDWATER SOURCE CONCENTRATIONS FOR DQRA

The source concentrations have been defined using data from the last four monitoring rounds collected at monitoring wells located within the refined groundwater source areas. Those data were collected between June 2022 and May 2023 (post the investigative works being completed) and are considered most representative of typical conditions at the Site.

The datasets for the petroleum hydrocarbons and chlorinated solvents have been refined further by the following processes:

- 1) Solubility limitation for hydrocarbons and chlorinated hydrocarbons – This assessment assumes identified LNAPL will be removed. Therefore, source term concentrations in groundwater are set so that they do not exceed solubility. Groundwater concentrations that exceed solubility are limited to the solubility value presented in Table 2-3.
- 2) Assigning values for the below LOD results to half the LOD.

For lead, the dataset for boreholes located in the defined source areas was only refined using step 2 of the above process.

Using the refined dataset, a mean from an annual cycle of data (June 2022 to May 2023) has been calculated. This is considered to be an appropriate source concentration to compare to target concentrations that are based on annual average WQS (see section 2.5.3). A sensitivity analysis on how higher source concentrations affect the model has also been undertaken (see section 4.3). The groundwater source concentrations are presented in the model inputs table included in Appendix D.

Table 2-3 – Solubility Limits

Substance	Solubility Limit (mg/l)	Source
>EC10-EC12 Aromatics	25	CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. CL:AIRE, London. ISBN 978-1-905046-31-7. Available at www.claire.co.uk/phg .
>EC12-EC16 Aromatics	5.8	CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. CL:AIRE, London. ISBN 978-1-905046-31-7. Available at www.claire.co.uk/phg .
>EC16-EC21 Aromatics	0.65	CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. CL:AIRE, London. ISBN 978-1-905046-31-7. Available at www.claire.co.uk/phg .
Naphthalene	32.9	ConSim suggested input parameters
TCE	1,100	Upper limit from ConSim suggested input parameters
cis-1,2-DCE	500	Upper limit from ConSim suggested input parameters for 1,1-DCE
VC	2,700	ConSim suggested input parameters

2.2.4 IDENTIFYING SUBSTANCES IN SOIL AND ASSOCIATED SOURCE AREAS FOR DQRA

The inclusion of soil sources in the CWRA is to evaluate the ongoing risk to groundwater from residual soil contamination. Given the length of time since the contamination occurred and the thin unsaturated zone at the Site, it is assumed that there is equilibrium between concentrations of contaminants capable of leaching from the overlying soil and concentrations observed in groundwater. For this stage of the DQRA, only substances identified as being carried forward for further assessment with respect to groundwater are also considered for soils. Therefore, all substances that remain in the groundwater source (see section 2.2.1) are considered for potential inclusion as a soil source. A soil source has been assessed for all of the petroleum hydrocarbon fractions that remain in the groundwater source (see section 2.2.1).

There is evidence that indicates cis-1,2-DCE is a degradation product of TCE rather than there having been a source of cis-1,2-DCE on Site. However, the soil and groundwater concentration data indicate that cis-1,2-DCE is present in soil and groundwater in the same areas as the TCE source, which suggests degradation is happening close to the TCE source. A soil source of cis-1,2-DCE has been included in the Tank Farm lagoon area because cis-1,2-DCE is present in soil at concentrations above the LOD in that area, and it contributes to the presence of both cis-1,2-DCE and VC in groundwater at concentrations above the WQS in the downgradient aquifer pathway. No cis-1,2-DCE soil source is considered in the Hazardous Waste/Oil Storage area because the groundwater concentrations in this area are all below the selected WQS. No cis-1,2-DCE soil source is considered beneath the Main Factory Building because the detection of this substance in groundwater in that area is considered to be due to downgradient transport along the aquifer pathway from the tank farm lagoon source area.



VC is not present at notable concentrations in soil, its presence in soil at concentration above its LOD is rare, and it is most likely to be a degradation product of TCE within the saturated pathway. Therefore, VC has not been modelled as a soil source.

2.2.5 DEFINING THE BOUNDARIES OF SOIL SOURCE AREAS FOR DQRA

The soil source areas have been selected using a combination of the groundwater source information, the locations where substances were detected in soils during the site-wide intrusive investigation (WSP-Golder, 2022), and information presented in previous reports about where substances were used, stored or known to have leaked. The source areas are shown on the images presented in Appendix C.

2.2.6 DEVELOPING REPRESENTATIVE SOIL SOURCE CONCENTRATIONS FOR DQRA

No new data has been collected about soils since the site-wide intrusive investigation (WSP-Golder, 2022), so all data collected as part of the investigation has been used to derive the source term.

As with the groundwater source refinement, the soil source concentrations have been defined using the data collected at boreholes located within the refined soil source areas, and any values below the LOD have been set as half the LOD.

Using the refined dataset, a 95% upper confidence limit of the mean of each contaminant concentration within each source area has been determined using the United States Environmental Protection Agency statistics tool 'ProUCL'. The value generated by that tool provides a population mean concentration where there is a 95% probability the true mean of the dataset is below that value (or there is only a 5% probability that the mean will be above that value). The UCL95 mean value for each source area is applied to all of that source area. A single mean value has been used because there is a reasonable sized dataset for each source area, and, although there is variability across that dataset, there is reasonable certainty over the spread of data. Therefore, applying an average constituent concentration with a high upper confidence level to the source area is a reasonable representation of the mass of contaminant in the whole source area. The UCL95 mean is applied to the whole source area. Where the soils dataset is insufficient to generate 95% upper confidence limit, the maximum concentration in soil in the source area has been selected to provide a conservative soil source concentration input value. The concentrations are presented in the model inputs table included in Appendix D.

2.3 PATHWAY

2.3.1 GEOLOGY

The geological setting of the Site is described in the intrusive investigation report (WSP-Golder, 2022). A summary of the geological sequence recorded beneath the Site is presented in Table 2-4.

Table 2-4 - Summary of Site Geology

Lithology	Depth Range (m bGL)	Thickness (m)	Elevation Range (m AOD)	Typical Description
Made Ground	0 to 7.1	0.01 to 7.1	21.87 to 6.92	Sandy, silty, clayey GRAVEL with frequent cobbles and occasional boulders. Gravel is subangular to angular comprising concrete, limestone and mudstone.
Alluvium	0 to 19.1	0.00 to 18.1	21.82 to -5.08	Comprising distinct layers and a sedimentary succession of CLAY, SILT, SAND, GRAVEL with occasional COBBLES and CONGLOMERATE.
Blue Lias Formation (Porthkerry Member)	0.2 to 33*	0.1 to 15.44	19.14 to base unknown (published thicknesses >100 m)*	Dark grey to brown, weathered to unweathered, weak to medium strong MUDSTONE and light grey, weathered to unweathered, strong to very strong LIMESTONE. The mudstone and limestone is interbedded and fractures were observed.

Notes: * (BGS, 2022).

Made ground is present across the Site, and generally comprises reworked alluvium, gravel, and hardstanding, such as concrete. Typically, outside the footprint of the Main Factory Building, the made ground thickness ranges from 0.5 to 1.0 m.

The thickness of alluvium varies across Site, generally as follows:

- In the south of the Site - little or no alluvium and made ground directly overlies the Blue Lias bedrock.
- In the south-central and very north of the Site - alluvium thickness is moderate (approximately 1 to 9 m) as the surface if the bedrock gets deeper.
- The central area of the Site - alluvium thickness increases (up to 18.1 m) in an east-west trending trench beneath the northern area of the Main Factory Building.

2.3.2 THE UNSATURATED PATHWAY

The unsaturated zone present beneath the majority of the Site is in the made ground and alluvium. To the south of Site, where the bedrock (Blue Lias) is shallow and alluvium is not present, the upper portion of the Blue Lias bedrock beneath the made ground is also unsaturated.

Dissolved contaminants will migrate in water by gravity drainage and moisture displacement vertically downwards through the unsaturated zone and into the saturated zone. Contaminants will be subject to retardation and dispersion in the unsaturated pathway. Contaminants reaching the water table will then be subject to dilution by groundwater flow.

The source of TPH (fractions and individual BTEX/PAH) is considered to be a surface or near-surface spill of hydrocarbons that has migrated downwards through the unsaturated zone and is present both in voids in the unsaturated zone and on the surface of groundwater as LNAPL. Conceptually, LNAPL will smear over the zone where groundwater levels fluctuate, so some contamination could be present immediately above the rising and falling groundwater. Therefore, there will be, at all times, little or no unsaturated zone beneath the TPH/BTEX/PAH source area.

Chlorinated solvents are dense NAPLs (DNAPL). Conceptually, a smear zone would not be expected in the unsaturated zone in the same manner as for hydrocarbons and it is noted that DNAPLs have not been identified. DNAPLs would be expected to preferentially accumulate where there are changes in strata. The Site-wide intrusive investigation borehole coverage has boreholes screened across the boundary between the Blue Lias and the overlying strata located across the whole Site, but particularly in the central/southern half of the Main Factory Building. The water level monitoring undertaken using an interface probe did not detect DNAPL at these locations.

2.3.3 THE SATURATED PATHWAY

Some soil sources at the Site are located above a geology that comprises made ground over alluvium over Blue Lias. In the southern part of the Site the alluvium is very thin or absent and the Blue Lias bedrock directly underlies the made ground. After passing through the unsaturated zone, the saturated pathway to the receptor is likely to be either 1) horizontally with groundwater flow just through the alluvium or 2) initially through the Blue Lias and then upwards into the alluvium due to the hydraulic connectivity between the strata and the artesian conditions encountered in the Blue Lias towards the centre of the Site (WSP-Golder, 2022). Because of this, the shortest pathway through the saturated zone will be through the alluvium. Where the Blue Lias is also part of the saturated pathway, most of the transport along the total pathway length is likely to be through the alluvium. Therefore, for modelling purposes, the saturated pathway at the Site is considered to be the alluvium. Adopting the alluvium as the saturated pathway is a simplifying assumption.

Groundwater flow and contaminant transport will be intergranular through layers in the alluvium. Flow will preferentially take place through higher hydraulic conductivity materials such as the sandier and gravellier pathways. Groundwater flow in the Blue Lias will take place preferentially through the limestone layers and through discontinuities in the mudstone layers.

There is no evidence of groundwater flow restrictions or diversions caused by either natural or engineered structures from the investigations completed to date. Groundwater elevation plots prepared for boreholes screened nearest the surface (WSP-Golder, 2022) do not indicate disturbances in the contours that might suggest barriers to flow or preferential flow pathways. The potential for contaminant transport in the saturated pathway through drains or other below water table manmade structures has not been considered in the assessment. This is considered reasonable given Ford's intention to decommission shallow subsurface structures such as drains. Whilst there is no evidence from the contour plots for barriers or diversions to shallow groundwater flow, it is nonetheless still credible that this is occurring around deeper basement structures (e.g. Sigma and Dragon); however, barriers or diversions to flow have been disregarded in the assessment so that the shortest pathway to the receptor is being assumed.

Although hydraulic continuity between the underlying geology (alluvium) and the River Ewenny has not been confirmed at this time, using an estimation of the groundwater elevation and likely elevation of the base of the river, it is likely that there is some connectivity between the groundwater present in the alluvium and the river water. It was noted that the riverbank appears to be constructed using sheet piles in some locations along the river; although, construction locations and details are unknown (WSP-Golder, 2022). This piling could reduce the connectivity between groundwater in the alluvium and water in the river. Despite this uncertainty, selection of groundwater immediately prior to discharge to the river as the compliance point for this assessment is considered conservative (see Section 2.5.1).

Contaminants will be subject to dilution, dispersion, and retardation along the saturated pathway.

2.4 BIODEGRADATION

2.4.1 EVIDENCE OF NATURAL ATTENUATION OF PETROLEUM HYDROCARBONS

Organic contaminants such as petroleum hydrocarbons are naturally attenuated via biological oxidation when electron donors (e.g. aliphatic and aromatic compounds), electron acceptors (e.g. oxygen, nitrate, ferric iron and sulphate) and nutrients (e.g. phosphorous) are combined by microorganisms to produce metabolic by-products (e.g. methane, nitrite, ferrous iron and sulphide) and energy for microbial growth (Carey et al., 2000). The following reductions are commonly taken to indicate biological oxidation of organic contaminants is occurring:

- Oxygen → carbon dioxide.
- Nitrate → nitrite.
- Manganese (Mn^{4+}) → manganese (Mn^{2+}).
- Ferric iron (Fe^{3+}) → ferrous iron (Fe^{2+}).
- Sulphate → sulphide.
- Carbon dioxide → methane.

The depletion of the left-hand parameters and enrichment of the right-hand parameters within groundwater can be used to indicate biological oxidation is occurring.

Additional evidence about the potential for natural attenuation processes occurring along the transport pathway has been gathered in the most recent four groundwater monitoring rounds. The parameters in the list above have been assessed against TPH concentrations to determine if natural biodegradation is likely to be occurring. The data and assessment results are included in groundwater monitoring reports (WSP, 2023a and 2023b; WSP-Golder, 2023a and 2023b). The findings presented in groundwater monitoring reports can be summarised as follows:

- Generally, the results of the assessment are not conclusive. Neither strongly reducing nor strongly oxidising conditions are present. However, biological oxidation of organic contaminants appears to be occurring.
- With the exception of the Waterton Centre, the results for the areas assessed for natural attenuation show that there is some evidence that natural biodegradation of TPH may be occurring.
- There is little evidence to suggest natural biodegradation of TPH is occurring in the area of the Waterton Centre.

2.4.2 EVIDENCE OF AEROBIC OR ANAEROBIC CONDITIONS

Dissolved oxygen (DO) measurements less than 1 mg/l are typically indicative of anaerobic conditions and DO measurements greater than 1 mg/l are typically indicative of aerobic conditions. TCE, which is known to be present on Site, can degrade readily to cis-1,2-DCE and VC under anaerobic conditions. Further degradation to ethene and ethane occurs more readily under aerobic condition but can occur under anaerobic conditions.

DO concentrations measured during the last four monitoring rounds, and that therefore represent conditions at different times of the year, have been plotted to see what conditions are present at the Site and how they vary. The plots are presented in Appendix E.

The DO concentrations plotted for the June 2022, October 2022 and March 2023 monitoring rounds suggest that conditions in groundwater are variable and that both aerobic and anaerobic conditions may exist; with neither being dominant at all times. Groundwater conditions beneath the Site during those monitoring rounds are generally slightly more anaerobic but vary across the Site with no clear pattern. Where there are multiple depth installs at monitoring locations, both the deep and shallow installations typically show the same condition; however, some show aerobic conditions near the surface and anaerobic at depth, whilst others show anaerobic conditions near the surface and aerobic conditions at depth. Therefore, it is possible that a vertical change from aerobic to anaerobic conditions in groundwater can occur at single monitoring locations.

The DO concentrations plotted for the May 2023 monitoring round indicate more widespread aerobic conditions were present at that time. Rainfall data from the Cardiff Bute Park (Met Office, 2023) rain gauge (located about 24 km east of the Site) show that the two months preceding the May 2023 monitoring round (March and April 2023) were between 1.6 and 3.5 times wetter than the two months preceding the other rounds, and wetter than the 10-year average (2013 to 2022) for March and April, so increased rainfall infiltration may have resulted in increased aerobic conditions. Therefore, there may be seasonal changes between aerobic and anaerobic conditions dominating where higher rainfall results in conditions being more aerobic in subsequent months.

Overall, it is possible that both aerobic and anaerobic conditions are present on Site, and the conditions vary both spatially and temporally. Therefore, it is also possible that degradation preferring anaerobic conditions and, seasonally, degradation that prefers aerobic conditions might both be occurring at the Site.

2.4.3 EVIDENCE OF TRICHLOROETHENE DEGRADATION

TCE follows a well-documented dechlorination pathway:

- TCE → cis-DCE → VC → Ethene → Ethane.

Each stage in the pathway requires particular conditions to be present; without which dechlorination will not occur. TCE commonly degrades under strongly reducing conditions. The more chlorinated the hydrocarbon, the more reducing the environment required to drive reductive dechlorination. Cis-DCE will degrade more readily under mildly reducing conditions than TCE, and VC only tends to degrade under oxidising conditions. The DO data for the Site and the evidence regarding reduction reactions suggests that both oxidising and reducing conditions may be present.

The chlorinated hydrocarbons have been considered as a holistic group in this CSM. This assumes that TCE is likely to have been the source substance (supported by the information presented in section 2.2) and that cis-1,2-DCE and VC detected in soils and/or groundwater are most likely to be its degradation products rather than having been stored or used on Site. Evidence of TCE degradation is supported by the following:

- TCE in groundwater is detected in discrete areas (i.e. at the Tank Farm and the Hazardous Waste/Oil Storage area) that correlate with the highest concentrations measured in soil and with the anecdotal evidence from former employees about the use and disposal of TCE (see section 2.2).
- TCE is rarely detected in groundwater away from the potential source areas.

- Cis-1,2-DCE is present in soils and groundwater in similar areas to TCE and also downgradient in groundwater; suggesting degradation of TCE to cis-1,2-DCE is occurring close to the TCE source area and along both the unsaturated and saturated pathways.
- There is no clear evidence of VC contamination in soils, which suggests it is a degradation product rather than a source contaminant.
- VC is present in groundwater downgradient of the TCE source area and beyond where cis-1,2-DCE is detected, which supports degradation occurring further along the groundwater pathway.
- Ethene and ethane (the onward degradation products after VC) are detected in groundwater at the Site; mainly in the area where VC is detected under the main building. Degradation beyond VC occurs most readily under aerobic conditions but can occur under anaerobic conditions.

Where cis-1,2-DCE and VC are detected in the downgradient boreholes located beneath the Main Factory Building, they are not detected in installations within the Lias, which suggests transport and degradation is restricted to the superficial deposits and made ground.

2.4.4 SUMMARY

The assessment of the presence of reduction compounds indicates neither strongly reducing nor strongly oxidising conditions are present, but that to a degree reductive dechlorination may be occurring.

DO concentrations are highly variable spatially (laterally and with depth) and are variable temporally. Conditions could be aerobic or anaerobic in different parts of the Site at different times. There is no specific part of the Site or pathways that is solely aerobic or anaerobic. Degradation that favours either aerobic or anaerobic conditions may be possible.

Degradation of TCE to cis-1,2-DCE and onwards to VC is occurring on-Site through reductive dechlorination. It is possible that onwards, more full degradation to ethene and ethane is also taking place. Overall, there is some evidence over longer timescales, that at least seasonally or in response to periods of higher rainfall, the petroleum hydrocarbons are able to degrade.

2.4.5 HALF LIVES SELECTION

There is evidence degradation of TCE and cis-1,2-DCE is occurring on-Site. Nonetheless an input range will be assumed in the risk assessment modelling for TCE, cis-1,2-DCE and VC half life, based on published values, to address uncertainty in degradation rate. There is some evidence that degradation of petroleum hydrocarbons is able to occur, but that it is more likely to occur over longer timescales. To reflect this uncertainty, the following process has been taken to derive conservative half-lives for the petroleum hydrocarbons:

- Information about half-lives for the hydrocarbon fractions and/or associated indicator substances has been collated from the ConSim suggested input parameters for biotic/aerobic half-life.
- The longer published half-lives have been cautiously favoured.
- That range has then been increased (lengthened) by four times to allow for greater uncertainty (i.e. the half-lives used in the CWRA are four times longer than the longest literature half-lives) and the likelihood that degradation on Site is seasonal rather than occurring all year round.

The half-life selection process for petroleum hydrocarbons is presented in Table 2-5. The half-lives used in the assessment (including the others selected for the chlorinated solvents) are presented in Appendix D.

Table 2-5 – Methodology for Selecting Half-life Values for Petroleum Hydrocarbons

Contaminant	Hydrocarbon Fraction Indicator Substance(s)	Half-life in Days (Consim)	Half-life Selected (in Days)
>EC10-EC12 Aromatics	Naphthalene	See Naphthalene.	See Naphthalene.
>EC12-EC16 Aromatics	Acenaphthene Acenaphthylene 2-methylnaphthalene	No data available.	See >EC16-EC21 Aromatics for conservative range.
>EC16-EC21 Aromatics	Fluorene Anthracene Phenanthrene Pyrene	840 - 1,168 949 - 2,884 1,606 - 2,081 1,132 - 3,103	6,424 – 12,412 (increased by a factor of four)
Naphthalene	N/A	100 - 300	400 - 1,200 (increased by a factor of four)

2.5 RECEPTOR

2.5.1 RECEPTOR SELECTION

Both the superficial deposits and bedrock of the area are designated as Secondary A aquifers. Secondary A aquifers are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. Previous work (WSP-Golder, 2022) notes that the nearest abstractions that are marked as being used for potable water are located about 0.55 km northeast, 0.66 km north and 0.83 km west of the site boundary. The source aquifer for these supplies is not known but could be from either more sandy or gravelly parts of the alluvium or water-bearing limestone layers within the Blue Lias.

The River Ewenny is located along the northern boundary of the Site and is down-hydraulic gradient of the Site. There is a river flow gauging station located on the River Ewenny just downstream of the north-western boundary of the Site (National River Flow Archive, 2023). The river has a catchment area of 62.5 km². The channel is 12.25 m wide at the gauging station, the Q95 flow is 0.412 m³/s and the Q50 flow is 1.219 m³/s.

Groundwater beneath the Site is considered likely to provide a pathway to the river and could also be a receptor from sources of contamination in soil or upgradient groundwater. The aquifer further downgradient than the river is currently used as a groundwater resource. The aquifer also has potential to be able to support future local supplies but, given the distance between the Site and the river, and the largely industrial use of land in the surrounding area, it is unlikely that groundwater beneath the Site would be used as in the foreseeable future drinking water resource. Given that the river is closer than existing groundwater abstractions and there is reduced potential for a closer future groundwater abstraction the River Ewenny is considered as a receptor; although, as evidence from nearby abstractions, the continued use of groundwater in the vicinity of the site as a resource cannot be excluded.

2.5.2 COMPLIANCE POINTS

The compliance points used in an assessment are linked to the level of assessment undertaken. An overview of the levels (as presented in the Environment Agency's guidance on land contamination compliance points; Environment Agency, 2023) are presented below.

Level 1: Soil Leaching

The level 1 compliance point is within the soil zone. Soil pore water quality data or leaching test results are compared to either:

- A target concentration in the soil zone.
- Target concentrations obtained from theoretical soil–water partitioning relationships.

In accordance with LCRM, the target concentration is usually the same as the environmental standard that would apply to the most sensitive receptor at risk.

Level 2: Unsaturated Zone Attenuation and Dilution only

The level 2 compliance point is groundwater immediately below the site, at or near the groundwater table. The target concentration within the groundwater flow pathway at, or immediately downstream of, the source zone must be met. The assessment takes account of dilution from infiltrating rainwater and groundwater flow.

The source of contamination may be either leaching soils or an area of contaminated groundwater or both. Where the source of contamination is leaching soils, the assessment may also consider attenuation in the unsaturated zone. Level 2 assessments don't consider attenuation in the saturated zone.

In accordance with LCRM, the target concentration is usually the same as the environmental standard that would apply to the most sensitive receptor at risk.

Level 3: Saturated Zone Attenuation

The level 3 compliance point is located at a point between the source and receptor where the target concentration will provide adequate protection to all identified receptors. This assessment level is similar to level 2, but also takes account of natural attenuation processes in the saturated zone.

Level 4: Dilution in the Receptor

The level 4 compliance point is at the receptor. This assessment level is similar to level 3, but also takes account of any additional dilution available at the receptor; in this case dilution by flows in a surface waterbody. In accordance with LCRM, in selecting a level 4 assessment for hazardous substances either of the following must be demonstrated:

- Any effect on groundwater doesn't jeopardise future use of the resource; or
- The cost of remediation is unreasonable in relation to the improvement of groundwater or surface water quality.

Groundwater Source Compliance Point Selection

Where groundwater contamination has already occurred and surface water is the main potential receptor, in accordance with LCRM a level 3 or a level 4 assessment could be selected. An evaluation of the cost of remediation is beyond the scope of this work, so, for the purposes of this CWRA, a precautionary level 3 assessment has been undertaken.

Environment Agency guidance (2017) states:

"The default compliance point distance for resource protection from the contaminant source is 50 metres for:

- *all hazardous substances in all aquifers for contaminants already in the groundwater, or from inputs from soils and the unsaturated zone which can't be prevented.*
- *non-hazardous pollutants in groundwater with strategic resource potential.*

The hazardous substances compliance point will be set at 50m downgradient of each groundwater contaminant source.

Both the superficial deposits and bedrock of the area are designated as Secondary A aquifers and are therefore not aquifers with strategic resource potential but designated as capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. The EA (2017) guidance states that for groundwater with local resource a distance greater than the default may be agreed with the Environment Agency (assumed to be the NRW in this instance). Therefore, the compliance point will be set for non-hazardous pollutants that is protective of the River Ewenny receptor and resource potential in the vicinity of the site. This is shown schematically in Figure 2-3.

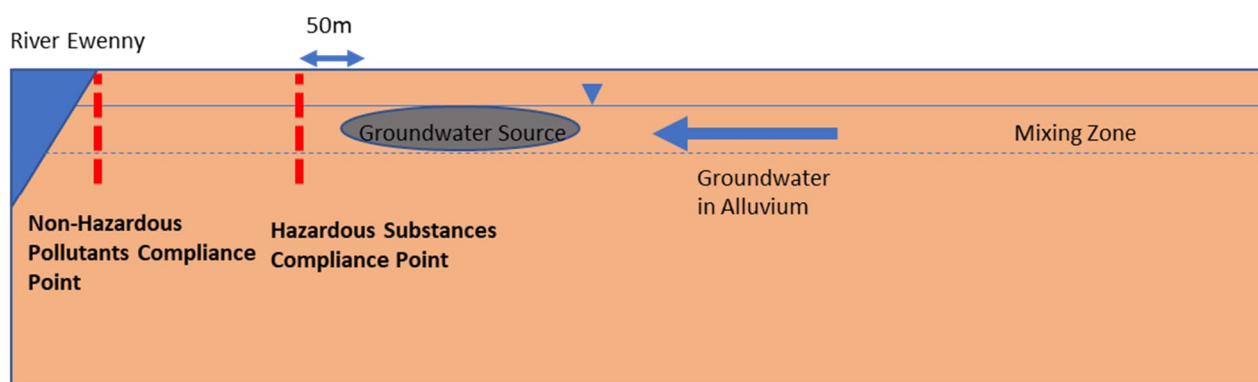


Figure 2-3 - Schematic Representation of Level 3 Compliance Points for Contaminants in Groundwater

Soil Source Compliance Point Selection

Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to minimise further entry of contaminants where there is a defined source (Environment Agency, 2017). Therefore, an assessment of the potential risk to water associated with residual soil contamination will be undertaken for those contaminants that are in groundwater

and are identified as having the potential to present a risk to controlled waters (see selection of source substances in Section 2.2).

The Environment Agency (2017) guidance states that hazardous substance compliance points should be set at, or as close as possible to, the point where contaminants enter the saturated zone. Therefore, a level 2 assessment of residual soil sources will be undertaken to assess this potential risk presented by hazardous substances. As the target concentration within the groundwater flow pathway at, or immediately downstream of, the source zone must be met, the compliance point is a hypothetical borehole located in groundwater immediately downgradient of each soil source area.

In the case of non-hazardous pollutants, the purpose of this assessment is to evaluate whether entry is limited to avoid pollution. Therefore, a level 3 assessment will be undertaken for non-hazardous pollutants that is protective of the River Ewenny receptor and the resource potential in the vicinity of the site. The non-hazardous pollutant compliance point will be set in groundwater immediately prior to discharge to the River Ewenny.

The level 2 compliance point for hazardous substances and level 3 compliance point for non-hazardous pollutants applied in this DQRA for soil sources is shown schematically in Figure 2-4.

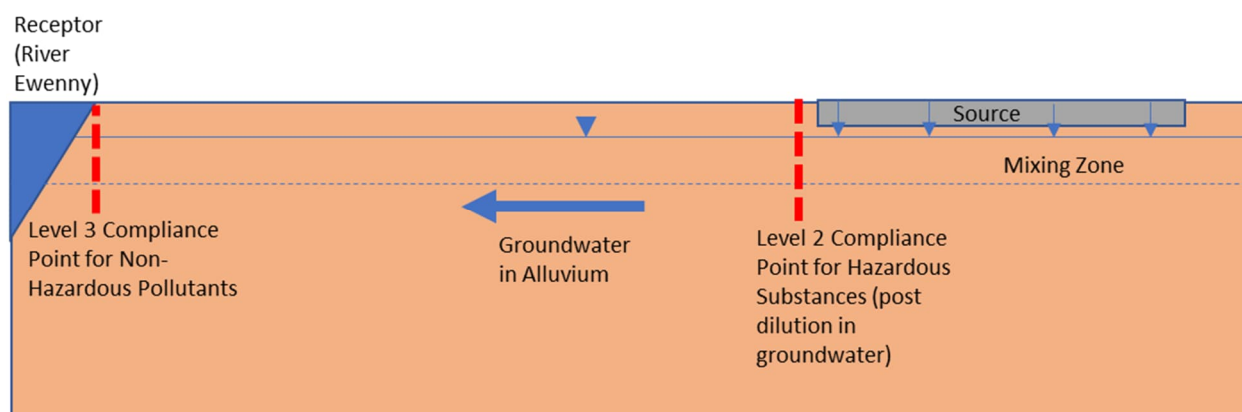


Figure 2-4 - Schematic Representation of Hazardous Substances and Non-Hazardous Pollutants Compliance Points to support a Level 2 and 3 assessment of soil contamination respectively

Non-Aqueous Phase Liquids (NAPL)

When setting compliance points where the presence of NAPL is known or suspected in the subsurface, the Environment Agency (2017) guidance states:

“If your site has mobile non-aqueous phase liquids (NAPLs) that are present on or below the water table, the Environment Agency considers the source of contamination to have already entered groundwater.

In these cases, you should follow the requirements for setting compliance points and:

- *minimise further entry of hazardous substances to groundwater from the overlying unsaturated zone.*
- *minimise expansion of the plume to prevent further pollution.*

NAPLs pose an indirect risk to receptors due to the dissolution of constituent compounds in groundwater and subsequent transport. Mobile NAPLs may also represent a direct risk to

receptors via movement through the unsaturated or saturated zone providing a secondary source of contamination.

You need to manage the contamination to ensure you:

- *remove or control mobile NAPL where its migration could present an unacceptable risk.”*

Measurable LNAPL (light NAPL) has been identified beneath the Tank Farm and Boiler House and sporadically in the Effluent Treatment Plant and contractors' car park. The possibility that this LNAPL, or a component of it, is mobile in groundwater cannot be confidently dismissed. It is concluded that the mobile LNAPL beneath the Tank Farm and Boiler House represents an unacceptable risk. The source term concentrations have been set so that they do not exceed solubility limits of respective TPH fractions. Although Ford has indicated there is intent for LNAPL to be removed as part of the remediation of the Site, the assessment takes a conservative approach, and it is assumed there will be no declining source term.

TCE has been identified in soils in the areas of the tank farm lagoons and the Hazardous Waste/Oil Storage area. These sources have been considered in the soils assessment. No free phase TCE (DNAPL – Dense NAPL) has been identified at the site and no concentrations of TCE have been recorded in groundwater that suggest it may be present.

2.5.3 TARGET CONCENTRATIONS

The target concentration (or compliance limit or value) in the context of this risk assessment is the concentration in groundwater at the compliance point that should not be exceeded.

Appropriate environmental standards are required in this CWRA for the following purposes:

- To undertake the screening exercise on the groundwater quality data against selected water quality standards (WQS) to determine which substances present an ongoing risk to Controlled Waters and need to be included in this CWRA (see section 2.2).
- To set target concentrations against which the risk assessment modelling results are compared.
- If an ongoing risk to controlled water is identified, to provide comparison criteria for modelled maximum source groundwater concentrations derived to support a remediation strategy.

WQS have been compiled for the substances included in this CWRA are presented in Table 2-6. These are 1) an annual average (AA) FW EQS freshwater environmental quality standard (FW EQS) 2) Maximum allowable concentration; EQS 3) United Kingdom Drinking Water Standard (UK DWS); and 4) World Health Organisation Drinking Water Guideline Value. The Environment Agency's guidance (2020) states that 'where the compliance point is the receptor, you will set the target concentration as the relevant environmental standard or background groundwater quality'. The guidance allows for increasing the target concentration at a compliance point where it is located in the pathway to the receptor to allow for attenuation in the receptor. Cautiously, in this assessment target concentrations have not been increased to allow for subsequent attenuation. Drinking water standards are considered protective of groundwater as a potable resource. Where the compliance point is located at a surface water receptor an EQS will be used if available.

Table 2-6 – Compiled Water Quality Standards

Substance	Freshwater EQS (ug/l)		UK DWS (ug/l)		WHO DWS (ug/l)	
>C5-C6 Aliphatics	none		none		15,000	CLAIRE table 5.4 (WHO guide value for aliphatic fraction)
>C6-C8 Aliphatics	none		none		15,000	CLAIRE table 5.4 (WHO guide value for aliphatic fraction)
>C8-C10 Aliphatics	none		none		300	CLAIRE table 5.4 (WHO guide value for aliphatic fraction)
>C10-C12 Aliphatics	none		none		300	CLAIRE table 5.4 (WHO guide value for aliphatic fraction)
>EC5-EC7 Aromatics	none		none		10	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
>EC7-EC8 Aromatics	none		none		700	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
>EC8-EC10 Aromatics	none		none		300 (ethylbenzene) or 500 (xylene)	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
>EC10-EC12 Aromatics	none		none		90	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
>EC12-EC16 Aromatics	none		none		90	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
>EC16-EC21 Aromatics	none		none		90	CLAIRE table 5.4 (WHO guide value for aromatic fraction)
Benzene	10	AA, EQS and CLAIRE table 5.3	1	Water Supply (Water Quality) Regulations 2016 and 2018 amendment	10	CLAIRE table 5.4 (WHO guide value for benzene)

Substance	Freshwater EQS (ug/l)		UK DWS (ug/l)		WHO DWS (ug/l)	
Toluene	74	AA, EQS and CLAIRE table 5.3	none		700	CLAIRE table 5.4 (WHO guide value for toluene)
Ethylbenzene	none		none		300	CLAIRE table 5.4 (WHO guide value for ethylbenzene)
o-Xylene	30	AA, EQS and CLAIRE table 5.3	none		500	WHO and CLAIRE table 5.4 (WHO guide value for xylenes)
p/m-Xylene	30	AA, EQS and CLAIRE table 5.3	none		500	WHO and CLAIRE table 5.4 (WHO guide value for xylenes)
Trichloroethene	10	AA for Trichloro-ethylene	10	sum of TCE and PCE, Water Supply (Water Quality) Regulations 2016 and 2018 amendment	8	WHO DWS (4th edition)
Cis-1,2-DCE	none		none		50	1,2 DCE - WHO DWS (4th edition)
Vinyl Chloride	none		0.5	Water Supply (Water Quality) Regulations 2016 and 2018 amendment	0.3	WHO DWS (4th edition)
Naphthalene	2	AA, EQS and CLAIRE table 5.3	none		none	
Acenaphthene	none		none		none	
Acenaphthylene	none		none		none	
Fluorene	none		none		none	
Anthracene	0.1	AA	none		none	
Phenanthrene	none		none		none	

Substance	Freshwater EQS (ug/l)		UK DWS (ug/l)		WHO DWS (ug/l)	
Pyrene	none		none		none	
Arsenic	50	AA FW EQS	10		10	Provisional guideline value
Boron	2000	AA FW EQS	1,000		2,400	
Cadmium	0.25	AA FW EQS based on >200mg/l CaCo3	5		3	
Chromium VI	3.4	AA FW EQS (dissolved)	50	Total Cr	50	Total Cr
Copper	1	AA FW EQS (dissolved)	2,000		2,000	
Lead	1.2	AA FW EQS (bioavailable). 14 MAC	10		10	Provisional guideline value
Mercury	0.07	MAC FW EQS	1		6	Inorganic Hg
Nickel	4	AA FW EQS (bioavailable) 34 MAC	20		70	
Selenium	none		10		40	Provisional guideline value because of uncertainties in the health database.
Vanadium	60	AA FW EQS based on >200mg/l CaCo3	none		none	
Zinc	10.9	AA FW EQS (dissolved)	none		none	

3 CONSIDERATION OF THE EFFECTS OF CLIMATE CHANGE ON THE RISK ASSESSMENT

3.1 INTRODUCTION

The requirement to consider future climate change effects as part of risk assessments is set out within Managing and reducing land contamination: guiding principles (GPLC2) [Environment Agency, 2010], LCRM and in the National Planning Policy Framework for England and Wales. These requirements are in place because climatic changes could affect the site-specific CSM, the established SPR pollutant linkages, and ultimately the risk posed to Controlled Waters.

The Society for Brownfield Risk Assessment (SoBRA) [2022] sets out the approach through which climate change effects can be incorporated into groundwater risk assessments. The SoBRA guidance highlights that most publicly available and authoritative datasets only extend to the year 2100, and therefore recommends that any land contamination risk assessments that extend beyond this time should be assessed qualitatively. An assessment of climate change effects up to 2100 is considered sufficient for this project. The following subsections follow the SoBRA guidance, which first seeks to establish whether any substantive changes to the site-specific CSM will / could occur because of climatic changes.

3.2 CLIMATE CHANGE DATA

The UK Met Office defines climate change as “large-scale, long-term shift in the planet’s weather patterns and average temperatures”. The Met Office UK Climate Projections (UKCP18) are the most up-to-date climate projections for the UK and extend up to 2100. These projections predict that on average across the UK there will be: more extreme weather events, such as intense rainfall and storm events; progressively hotter and drier summers; and progressively milder wetter winters [Met Office, 2024]. Sea-levels are also expected to increase around the UK. However, as the effects of climate change vary seasonally and spatially across the UK, careful consideration should be given to the site-specific setting.

Future UK climate change projections are available at a regional (12 km) scale for climate model scenario ‘RCP8.5’, which assumes a high emission greenhouse gas scenario (i.e. there is a failure to curb global emissions and greenhouse gas emissions continue to accelerate). Based on RCP8.5 at a regional scale, climate change predictions for the site [BBC, 2024 - using post code CF31 3PJ] predict that the hottest summer day could increase from 32°C (based on 1991 to 2019 data) to 34.3°C with a global average temperature increase of 2°C above pre-industrial levels, and to 38.8°C with a global average temperature increase of 4°C. The warmest winter day could increase from 17.1°C (based on 1991 to 2019 data) to 17.3°C with a global average temperature rise of 2°C above pre-industrial levels, and to 18.6°C with a global average temperature rise of 4°C.

Also, predictions are that there will be fewer rainy summer days, but more summer rainfall. The number of rainy winter days per month is predicted to be roughly the same. The wettest summer day could see an increase from 66 mm of rainfall (based on 1991 to 2019 data) to 90 mm with a global 2°C rise above pre-industrial levels, and to 89 mm with a global 4°C rise. The wettest winter day could see an increase from 62 mm of rainfall (based on 1991 to 2019 data) to 75 mm with a global 2°C rise, or increase to 90 mm with a global 4°C rise [BBC, 2024].

3.3 SEA-LEVEL RISE

The coastal risk screening tool [Climate Central, 2024] indicates that the site is not in an area predicted to be at risk of flooding as a result of sea level rise, tide and storm surges until there is a water level rise of 10 m above current levels. The elevation of the Site is also predicted to be below annual flood levels in 2050. As such, no impact to Controlled Waters from rising sea-levels is expected to occur.

3.4 FLOODING

The current risk of flooding from rivers is 'low' and from the sea is 'very low' for the main body of the Site. The risk of flooding from rivers increased to 'high' immediately adjacent to watercourse channels. There are localised areas of 'high' risk from surface water flooding across the Site [Natural Resources Wales, 2024a].

Most of the Site is located in Rivers and Sea Flood Zone 2 where there is a combined 0.1% (1 in 1,000) risk of flooding from rivers and the sea including climate change [Natural Resources Wales, 2024b]. The watercourses around the Site lie within Rivers and Sea Flood Zone 3 where there is a combined 1% (1 in 100) risk of flooding from rivers and the sea including climate change. With respect to surface water, localised parts of the Site lie within either Flood Zone 2 or 3 (Flood Zone 3 applies to areas with more than 1%, 1 in 100, chance of flooding from surface water and/or small watercourses in a given year, including the effects of climate change).

3.5 GROUNDWATER RECHARGE

The Enhanced Future Flows and Groundwater (eFLaG) Portal [UK Centre for Ecology & Hydrology, 2024] provides projections for changes in groundwater recharge for the near-future (2020-2049) and the far-future (2050-2079) based on baseline data from 1989-2018.

The projections show that for 2020-2049 the absolute change in groundwater recharge for the Swansea Jurassic Lias Groundwater Body will vary through the year from -0.2 mm/day in late summer to +0.2 mm/day in winter. The average change is +0.01 mm/d. For 2050-2079, the absolute change in groundwater recharge will vary through the year from -0.4 mm/day in late summer to +0.6 mm/day in winter. The average change is +0.04 mm/d.

3.6 GROUNDWATER LEVELS (TRANSIENT LOW FLOWS / LEVELS > AQUIMOD).

The eFLaG portal [UK Centre for Ecology & Hydrology, 2024] also provides water level change predictions for selected principal aquifers (used for potable water supplies). This data is based on 54 boreholes that are spread out across the country. The closest borehole to the site is 'Pant Y Lladron (ST07/10)', which monitors a Carboniferous/Devonian aquifer and is located approximately 11 km southeast of the Site.

Based on the 'L50' projections (water elevation which was equalled or exceeded for 50% of the record), the absolute change in aquifer water levels is predicted to be an average of 0.5 m for the near-future (2020-2049) and an average of -1.4 m for the far-future (2050-2079).

Under the most extreme 'L90' conditions (where the water elevation was equalled or exceeded for 90% of the record), the absolute change in aquifer water levels is predicted to be an average of -1.3 m for the near-future (2020-2049) and an average of -2.8 m for the far-future (2050-2079).

3.7 SUMMARY

Based on available data and climate change predictions to 2100, the future effects of flooding and sea level rise are considered not to require further assessment. It is concluded the effects of climate change that could affect the risk assessment are as follows:

- Changes in the rate of groundwater recharge, as a result of changes in rainfall, which might affect groundwater flow rates (dilution, travel times) and the rate at which contaminants are mobilised from soil to groundwater.
- Changes in groundwater level, which could increase or reduce the thickness of the unsaturated zone beneath contaminants in the soil.

The way in which these changes are incorporated into the DQRA is detailed in Section 4.

4 DETAILED QUANTITATIVE RISK ASSESSMENT

4.1 ASSESSMENT APPROACH

4.1.1 SOIL SOURCE ASSESSMENT

The assessment has been undertaken by using the probabilistic software ConSim 2.5. Exact values of input parameters are rarely known; especially where there is natural variability in properties or site-specific information is not available. However, in ConSim each parameter can be described by a range of possible/probable values incorporating the available information. During each simulation the parameters are assigned a value from within the defined ranges. After a large number of iterations, a range of possible predicted concentration or outcome values are obtained, and it becomes possible to quantify the likelihood of a certain outcome. Each result is stored so that after repeating the same calculation many times, an output distribution for the concentration at the receptor is obtained.

The distribution output is given in terms of percentiles (%iles). These percentiles specify the probability with which a certain value (e.g. concentration) will not be exceeded. For instance, if the 95%ile of a concentration distribution is given as 10 mg/l, there is a 95% chance that the actual leakage rate will be below or equal to 10 mg/l. It follows that there is also a 5% chance that the actual concentration will be greater than 10 mg/l. The 50%ile output from the model is viewed as the most likely result. WSP considers that the 95%ile output is sufficient to represent the reasonable worst-case output for the DQRA and is a suitably conservative approach to take for this risk assessment.

The models have been run for 1,001 realisations which allows the 95%ile confidence level to be captured. For the purposes of the model, a maximum timeslice of 1,000 years has been applied, beyond which it is not considered appropriate to assess potential risks.

Cautiously, no declining source has been used in the modelling of soil contamination.

ConSim follows a staged approach. Each level requires different degrees of data input depending on the complexity of analysis needed. There are four assessment levels, which can be described as follows:

- Level 1 is the simplest and most conservative of the three assessment levels. The assessment is used to compare leachate concentrations to specified water quality standards. It assumes no dilution or attenuation of the contamination.
- Level 2 takes the information from level 1 and introduces transport and attenuation in the unsaturated zone and dilution at the water table. The output includes the groundwater concentration at the base of the unsaturated zone and indicates the likelihood of impact to the underlying aquifer.
- Level 3 includes consideration of advection, diffusion and attenuation during transport through the aquifer in order to calculate the predicted impacts on a down gradient water receptor.
- Level 3a bypasses levels 1 and 2 and is used when groundwater has already been impacted by contamination. It considers the impacts on a down gradient water receptor.

Levels 1 to 3 map against the same numbered contaminated land assessment levels in the Environment Agency's guidance on land contamination assessment (Environment Agency, 2023).

A level 2 and 3 ConSim assessment has been selected for assessment of the soil sources. Two types of receptors have been defined in ConSim with respect to the modelled soil sources. One is immediately downgradient of each source and allows for post-dilution concentrations of hazardous substances to be calculated (i.e. equivalent to a LCRM/ConSim level 2 assessment) and one is at the River Ewenny to allow concentrations of non-hazardous pollutants to be calculated (i.e. equivalent to a LCRM/ConSim level 3 assessment). For both levels of assessment the selected WQS are used as the target concentration for the modelled substances.

4.1.2 GROUNDWATER SOURCE ASSESSMENT

A Level 3a ConSim assessment has been used (i.e. contaminants are already present in the dissolved phase in groundwater). The ConSim model calculates contaminant concentrations in groundwater at the down gradient groundwater compliance points (i.e. a level 3 assessment in LCRM guidance). The input values used in, and results of, the ConSim modelling are presented in section 4.2.

4.2 CONSIM MODELLING

4.2.1 CONTAMINANTS TO BE MODELLED

The contaminants that remain of concern at this stage of the DQRA and will be modelled in ConSim are presented in Table 4-1.

Table 4-1 - Contaminants Modelled in ConSim

Substance	Groundwater ConSim Model	Soils ConSim Model
>EC10-EC12 aromatics	Boiler House Effluent Treatment Plant Tank Farm	Boiler House Effluent Treatment Plant Tank Farm
Naphthalene	Boiler House	Boiler House
>EC12-EC16 aromatics	Boiler House Effluent Treatment Plant Tank Farm	Boiler House Effluent Treatment Plant Tank Farm
>EC16-EC21 aromatics	Boiler House Effluent Treatment Plant Tank Farm	Boiler House Effluent Treatment Plant Tank Farm
TCE	Tank Farm lagoon Hazardous Waste/Oil Storage area	Tank Farm lagoon Hazardous Waste/Oil Storage area
cis-1,2-DCE	Tank Farm lagoons	Tank Farm lagoons
VC	Main Factory Building source	Not modelled
Lead	Main Factory Building/Battery Bay Boiler House	Not modelled

4.2.2 MODEL INPUT PARAMETERS

The input parameters selected for ConSim are presented in Appendix D. The input records for each model run are included in Appendices F (base models) and G (sensitivity models).

Degradation of cis-1,2-DCE has not been applied in the soils assessment because there is not clear evidence of VC in soils. It is assumed that cis-1,2-DCE degradation only occurs in the aquifer pathway, so the half-life of cis-1,2-DCE in the unsaturated zone of the soils model is set to a large number (1×10^9 years) to simulate extremely slow degradation in this part of the pathway.

The generation of biodegradation products cannot be modelled in ConSim (i.e. the reduction in concentration of one substance leading to the increase of another). Therefore, the changes in chemistry along the chlorinated solvent degradation pathway over time has not been represented. However, the TCE source is likely to be about 30 years old and the pathway to dechlorination is well underway (see discussion in sections 2.2.2 and 2.4). The plumes of cis-1,2-DCE and VC in groundwater generated by the TCE sources appear to be fairly stable in extent and concentration based on the monitoring undertaken between June 2022 and May 2023, and peak concentrations may have already passed. Therefore, a modelling assumption has been made that the source concentrations measured now for each of the chlorinated solvent substances is considered to be the most representative of the source term for this assessment.

A core simplifying assumption of the ConSim model is that there is a single saturated zone pathway through the alluvium. The reasons supporting this simplification are presented in Section 2.3.3. This simplification is also required because ConSim only allows a single aquifer pathway to be included.

4.2.3 BASE MODEL RESULTS

The results of both the groundwater and soil base models are summarised in Table 4-2 and Table 4-3, respectively. These concentrations represent the 95th percentile model output. The graphical results are included in Appendix F.

In accordance with the modelling approach, the soil concentrations for hazardous substances for each source are measured in the groundwater immediately downgradient of each source area. Predicted concentrations of non-hazardous pollutants from soil sources are presented for a downgradient receptor positioned adjacent to the River Ewenny. For the groundwater model, each source area, or group of aligned source areas) has a corresponding downgradient receptor positioned adjacent to the River Ewenny. Although concentrations will be predicted at other locations adjacent to the river due to dispersion, the highest predicted concentrations will be directly downgradient of the source and only these results are presented. The locations of the receptors for both the soil and groundwater models are shown in Appendix F.

As the modelled sources are not declining, once the peak has been reached the concentrations will not decline; therefore, the results for the final (1000 year) time slice are presented.

Predicted Risk to Downgradient Groundwater from Groundwater Sources

A summary of the groundwater assessment results is presented in Table 4-2

Table 4-2 - Groundwater Source Base Model Assessment Results

Source and Location	Selected WQS (mg/l)	95 th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point?	Graph Reference (see Appendix F)
>EC10-EC12 aromatics - Boiler House*	0.09	0.00030	no	GW7
>EC12-EC16 aromatics - Boiler House*	0.09	0.036	no	GW8
>EC16-EC21 aromatics - Boiler House*	0.09	0.0060	no	GW9
Naphthalene - Boiler House	0.002	3.73E-13	no	GW10
Lead - Boiler House	0.01	0.00012	no	GW11
>EC10-EC12 aromatics - Effluent Treatment Plant	0.09	0.00014	no	GW4
>EC12-EC16 aromatics - Effluent Treatment Plant	0.09	0.016	no	GW5
>EC16-EC21 aromatics - Effluent Treatment Plant	0.09	0.0074	no	GW6
>EC10-EC12 aromatics - Tank Farm	0.09	0.00034	no	GW1
>EC12-EC16 aromatics - Tank Farm	0.09	0.014	no	GW2
>EC16-EC21 aromatics - Tank Farm	0.09	0.0029	no	GW3
TCE - Tank Farm Lagoon	0.01	0.0098	no	GW12
cis-1,2-DCE -Tank Farm Lagoon	0.05	4.95E-06	no	GW15

Source and Location	Selected WQS (mg/l)	95 th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point?	Graph Reference (see Appendix F)
TCE Hazardous Waste/Oil Storage area	0.01	0.0091	no	GW13
VC - Main Factory Building	0.0005	0.0062	yes	GW14
Lead - Main Factory Building	0.01	0.0020	no	GW16

**Total receptor' cautiously selected in ConSim to incorporate potential ETP source contribution directly upgradient*

The concentrations of contaminants in the modelled groundwater sources are predicted to be less than the WQS at the receptor other than vinyl chloride. The 95th percentile predicted concentration of vinyl chloride at the compliance point from the existing groundwater plume exceeds the target concentration.

Predicted Risk to Groundwater from Soil Sources

A summary of the soil assessment results is presented in Table 4-3.

Table 4-3 - Soil Source Base Model Assessment Results

Source and Location	WQS (mg/l)	Model Receptor (see Appendix F)	95 th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point?	Graph Reference (see Appendix F)
>EC10-EC12 aromatics - Boiler House	0.09	Boiler House	0.67	yes	S1
>EC12-EC16 aromatics - Boiler House	0.09	Boiler House	0.55	yes	S2
>EC16-EC21 aromatics - Boiler House	0.09	Boiler House	0.051	no	S3
Naphthalene - Boiler House	0.002	Naphthalene	2.32E-07	no	S4
>EC10-EC12 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.038	no	S5
>EC12-EC16 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.12	yes	S6

Source and Location	WQS (mg/l)	Model Receptor (see Appendix F)	95 th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point?	Graph Reference (see Appendix F)
>EC16-EC21 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.011	no	S7
>EC10-EC12 aromatics - Tank Farm	0.09	Tank Farm	0.034	no	S8
>EC12-EC16 aromatics - Tank Farm	0.09	Tank Farm	0.10	yes	S9
>EC16-EC21 aromatics - Tank Farm	0.09	Tank Farm	0.014	no	S10
TCE - Tank Farm Lagoon	0.01	TCE (Tank Farm Lagoons)	2.22	yes	S11
cis-1,2-DCE -Tank Farm Lagoon	0.05	DCE	3.23E-05	no	S12
TCE Hazardous Waste/Oil Storage area	0.01	TCE (Hazardous Waste/Oil Storage area)	0.13	yes	S13

The concentrations of the following hazardous substances and non-hazardous pollutants in soils at various locations within the Site are predicted to exceed target concentrations at the compliance point:

- >EC10-EC12 aromatics (from the Boiler House).
- >EC12-EC16 aromatics (from the Boiler House, Effluent Treatment Plant and Tank Farm areas).
- Trichloroethene (from the Tank Farm lagoon area and the Hazardous Waste/Oil Storage area)

4.3 SENSITIVITY ANALYSIS

The ranges used when representing parameters already account for some degree of uncertainty and natural variability. However, a series of additional ConSim model runs have been performed to look at the sensitivity of the models to: 1) a more conservative groundwater source concentration; and, 2) climate change.

4.3.1 SENSITIVITY MODEL A (GROUNDWATER SOURCE CONCENTRATIONS)

The groundwater base model has been varied to evaluate the effects of changing the method used to generate the source concentrations. The source concentrations have been increased from the mean concentration within the source area to the 95th percentile concentration within the source area. Performing the sensitivity analysis is highly conservative because not all the groundwater located within the source area will be the 95th percentile concentration. Details of the altered input values are included in Appendix G. The results of the sensitivity model are also presented in Appendix G.

The outcome of the base model run (i.e. the WQS are not predicted to be exceeded at the receptor) is largely unaffected by this sensitivity model run. The predicted concentrations of most substances at the receptors remain at least an order of magnitude below the WQS. The predicted concentration of vinyl chloride at the receptor for the source concentration sensitivity analysis model run marginally exceeds the WQS at the 95th percentile (predicted receptor concentration of 0.00086 mg/l against the WQS of 0.0005 mg/l), but not at the 50th percentile (predicted receptor concentration of 0.00028 mg/l). This is discussed further in Section 5.

4.3.2 SENSITIVITY MODEL B (CLIMATE CHANGE)

Consideration of climate change (Section 3) indicates that there could be more or less groundwater recharge in the future (but more, on average), and there could be higher or lower groundwater levels (but more likely to be lower). More groundwater recharge could, in turn, lead to greater flow in the aquifer.

To address this, the following climate change sensitivity model runs have been performed:

- Model B1 - Higher groundwater levels, because this would lead to a reduced maximum unsaturated zone thickness.
- Model B2 - More infiltration on average over a year due to the predicted increase in groundwater recharge.

These model input changes only affect the soil base model, so no climate change sensitivity has been performed on the groundwater base model.

No climate change sensitivity model runs have been performed to evaluate the effect of greater aquifer flows caused by greater infiltration. The base model values for aquifer thickness, hydraulic conductivity and hydraulic gradient were selected based on likely values that were then cross-checked against estimates for catchment flow. When the estimates of catchment flow were updated to account for more infiltration, the resulting slight increase in flows were already captured within the range generated by the selected base model hydraulic conductivity and hydraulic gradient. Therefore, there is already sufficient range in the values used to represent hydraulic conductivity and hydraulic gradient in the base models to account for the change that more infiltration would cause to flow in the aquifer.

Details of the altered input values are included in Appendix G. The results of the sensitivity model are also presented in Appendix G.

The changes made to the input parameters do not result in notable changes to the predicted receptor concentrations. All predicted sensitivity model concentrations at the receptors are similar to that predicted in the base model. The outcome of the base model run (i.e. that certain petroleum hydrocarbon and TCE sources present a risk to Controlled Waters) is unaffected by this sensitivity model run.

4.4 CONCLUSIONS OF THE MODELLING

4.4.1 GROUNDWATER SOURCE MODELLING

The predicted concentrations of vinyl chloride at the compliance point from the existing groundwater plume exceed the target concentrations in the base model. The sensitivity analysis on the source concentration predicts, as expected, that when the 95th percentile source concentration is used rather than the mean, the concentration of vinyl chloride at the receptor exceeds the WQS at the 95th percentile. The 95th percentile concentrations of TCE with respect to the Tank Farm and Waste Compound/Chip Plant sources in this highly cautious model run also exceed the WQS. The run with 95th percentile concentrations illustrates some sensitivity with regards TCE, but comparison with monitoring data, which provides little or no evidence for TCE in groundwater beyond the source zone, supports the representative nature of the base case run.

No other predicted concentrations exceed the WQS in either the base model run, or the sensitivity analysis model run that used the 95th percentile source concentrations. The modelling therefore indicates even with a highly cautious source, hydrocarbons in groundwater do exceed target concentrations, which provides further confidence in the base case run.

4.4.2 SOIL SOURCE MODELLING

The concentrations of the following hazardous substances and non-hazardous pollutants in soils at various locations within the Site are predicted to exceed target concentrations at the compliance point:

- >EC10-EC12 aromatics (from the Boiler House).
- >EC12-EC16 aromatics (from the Boiler House, Effluent Treatment Plant and Tank Farm areas).
- Trichloroethene (from the Tank Farm lagoon area and the Hazardous Waste/Oil Storage area).

The sensitivity analysis model runs do not alter these findings. Calculations to support a remedial strategy, based on the level 2 assessment, are carried out in section 5.

5 CALCULATIONS TO SUPPORT SOIL AND GROUNDWATER REMEDIATION

5.1 PURPOSE OF THE CALCULATIONS

For those contaminants predicted by modelling to potentially present an ongoing risk to groundwater, the risk assessment can, by way of forward modelling, support in the development of a remedial strategy. This can be carried out by using the model to calculate theoretical soil concentrations that result in concentrations less than the selected compliance limit or value (target concentration) at the chosen groundwater compliance point. These values may be used to feed into a remedial strategy and the development of remediation objectives and targets associated with the identified source areas.

5.2 CALCULATIONS TO SUPPORT SOIL REMEDIATION

Note – This section (5.2) has been superseded by the WSP Revised Infiltration Values Addendum³. Maximum soil source concentrations have been updated.

The DQRA indicates that inputs of certain aromatic hydrocarbon fractions and TCE from soil cause groundwater target concentrations at the compliance point to be exceeded in the areas of the Boiler House, Effluent Treatment Plant, Tank Farm, and Hazardous Waste/Oil Storage areas.

Concentrations in soil have been derived by determining what average soil source concentration in ConSim is predicted to result in a concentration in groundwater equal to or less than the target concentration in groundwater at the compliance point. If these concentrations are met on average in soils within the modelled source area, the concentrations at the receptor are predicted to be lower than the WQS. The concentrations that have been derived for soils at the Site using this method are presented in Table 5-1.

Each aromatic hydrocarbons fraction that presents a potential risk to Controlled Waters is part of the total petroleum hydrocarbon (TPH) concentration in soils. The 'total' TPH concentration in soil is most likely to be used as a verification measurement rather than individual hydrocarbon fractions. Therefore, the average proportion that each aromatic fraction makes up of the 'total' TPH concentration (in this case the measurement of >C5-C35 Aliphatics/Aromatics) in the source area modelled has been calculated and a proportionate derived TPH concentration has been developed. These are presented in Table 5-2.

³ Bridgend Engine Plant – Effect of Revised Infiltration Values on Maximum Soil Source Concentrations, WSP, 21st March 2025, 70116125-R09.

Table 5-1 - Derived Maximum Soil Source Concentrations which do not exceed the Compliance Limit (Target Concentration) in Groundwater at the Compliance Point

Source and Location	WQS (mg/l)	Compliance Limit (Target Concentration) in Groundwater at the Compliance Point (mg/l)	Modelled Maximum Source Concentration (mg/kg)	Calculated 95 th percentile diluted concentration at the compliance point at 1,000 years (mg/l)
>EC10-EC16 aromatics – Boiler House	0.09	0.09	8	0.088
>EC12-EC16 aromatics – Boiler House	0.09	0.09	10	0.080
>EC12-EC16 aromatics – Effluent Treatment Plant	0.09	0.09	45	0.082
>EC12-EC16 Aromatics – Tank Farm	0.09	0.09	38	0.080
Trichloroethene – Tank Farm	0.01	0.01	0.3	0.0094
Trichloroethene – Hazardous Waste/Oil Storage area	0.01	0.01	0.3	0.0079

Table 5-2 - Derived Soil Hydrocarbon Concentrations expressed as TPH

Source and Location	Derived Source Concentration (mg/kg)	Combined Derived Source Concentration (mg/kg)	% of TPH Fractions relative to 'total' TPH	Equivalent 'total' TPH Source Concentration (mg/kg)
>EC10-EC21 aromatics – Boiler House	8	18	9.6	188
>EC12-EC16 aromatics – Boiler House	10			

>EC12-EC16 aromatics – Effluent Treatment Plant	45	45	0.9	5,000
>EC12-EC16 aromatics – Tank Farm	38	38	1.4	2,700

5.3 CHLORINATED HYDROCARBONS

Predicted concentrations of vinyl chloride in groundwater exceed target concentrations at the compliance point for the base model. The base model predicts acceptable concentrations of TCE and DCE in groundwater; although, the highly cautious sensitivity analysis undertaken predicts 95th percentile TCE concentrations exceed the target concentration.

It is possible that the plume is fairly stable given the time that has passed since TCE is last known to have been used at the Site (about 30 years). The last four rounds of monitoring data also indicate that the extent of, and concentrations in, the plume are not that variable.

The removal of the TCE soil source would be expected to reduce future vinyl chloride generation in groundwater and lower the concentrations in the existing plume as vinyl chloride continues to degrade to ethene and ethane.

The exceedance of VC concentrations and uncertainty over the stability of the plume are such that following consideration alongside the risk assessment outcomes, the groundwater plume associated with the TCE soil sources will be included within the remediation strategy for the Site. Whilst the base model results for TCE in groundwater are acceptable it also has the benefit of addressing the findings regarding model sensitivity.

5.4 MONITORING NETWORK

The monitoring wells used in the identification and delineation of the source will, where possible, be retained throughout any remediation works, so that they can be used for validation monitoring. Where monitoring wells need to be removed, replacements will be installed if required to satisfy validation monitoring objectives.

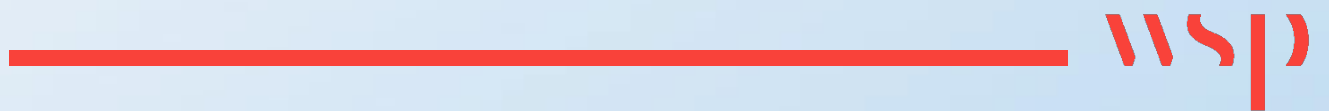
6 REFERENCES

- Arcadis (2021) Phase I Environmental Site Assessment and Site Use History Update. Report reference 10040686-AUK-XX-XX-RP-ZZ-0005-01, version 01.
- British Broadcasting Association (2024) What will climate change look like near me? Available at <https://www.bbc.co.uk/news/resources/idx-d6338d9f-8789-4bc2-b6d7-3691c0e7d138>. Accessed 21 March 2024.
- Carey, M. A.; Finnermore, J. R.; Morrey, M. J.; Marsland, P. A. (2000) Guidance on the Assessment and Monitoring of Natural Attenuation of Contaminants in Groundwater. Environment Agency R&D Publication 95.
- Carey, M. A.; Marsland, P. A.; Smith, J. W. N. (2006) Hydrogeological Risk Assessment for Land Contamination. Remedial Targets Methodology.
- CL:AIRE, 2017. Petroleum hydrocarbons in groundwater: guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. Version 1.1.
- Climate Central (2024) Coastal Risk Screening Tool. Available at <https://coastal.climatecentral.org/>. Accessed 21 March 2024.
- Environment Agency (2010) Managing and reducing land contamination: guiding principles (GPLC2) – FAQs, technical information, detailed advice and references. March 2010.
- Environment Agency (2017) Guidance on how to select compliance points for the assessment of risks to groundwater from land contamination. Available at <https://www.gov.uk/guidance/land-contamination-groundwater-compliance-points-quantitative-risk-assessments#identify-compliance-points>. Accessed 27 September 2023.
- Environment Agency (2020) Land contamination: risk management. <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>. Accessed 27 September 2023.
- The Interstate Technical & Regulation Council (ITRC) (2022) Per- and Polyfluoroalkyl Substances Technical and Regulatory Guidance, June 2022.
- Met Office (2023) Historic station data. Available at <https://www.metoffice.gov.uk/research/climate/maps-and-data/historic-station-data>. Accessed 27 September 2023.
- Met Office (2024) Climate change in the UK. Available at <https://www.metoffice.gov.uk/weather/climate-change/climate-change-in-the-uk#climate-in-the-uk>. Accessed 21 March 2024.
- National River Flow Archive (2023) River flow data for the Ewenny at Keepers Lodge (station 58009). Available at <https://nrfa.ceh.ac.uk/data/station/info/58009>. Accessed 10 October 2023.
- Natural Resources Wales (2024a) Flood and Coastal Erosion Risk Maps. Available at <https://flood-risk-maps.naturalresources.wales/>. Accessed 21 March 2024.
- Natural Resources Wales (2024b) Flood Map for Planning. Available at <https://flood-map-for-planning.naturalresources.wales/>. Accessed 21 March 2024.
- The Society of Brownfield Risk Assessment (2022) Guidance on assessing the risk to controlled waters from UK land contamination under conditions of future climate change. Version 1.0, dated August 2022.
- UK Centre for Ecology & Hydrology (2024) Enhanced Future Flows and Groundwater (eFLaG) Portal. Available at <https://eip.ceh.ac.uk/hydrology/eflag/>. Accessed 21 March 2024.

- UKTAG (2018) Confirmed hazardous substances list. Available at <http://wfd.uk.org/resources/groundwater-hazardous-substances-standards>. Accessed 10 October 2023.
- WSP (2023a) Groundwater Monitoring Report March 2023. Report reference 21476577.617/A.0, dated 10 August 2023.
- WSP (2023b) Groundwater Monitoring Report May 2023. Report reference 21476577.619/B.0, dated 8 September 2023.
- WSP-Golder (2022) Bridgend Engine Plant Intrusive Investigation 2020 – 2022. Report reference 21476577.601/A.1, dated 20 April 2022.
- WSP-Golder (2023a) Groundwater Monitoring Report June 2022. Report reference 21476577.609/A.1, dated 1 February 2023.
- WSP-Golder (2023b) Groundwater Monitoring Report October 2022. Report reference 21476577.615/A.0, dated 8 February 2023.

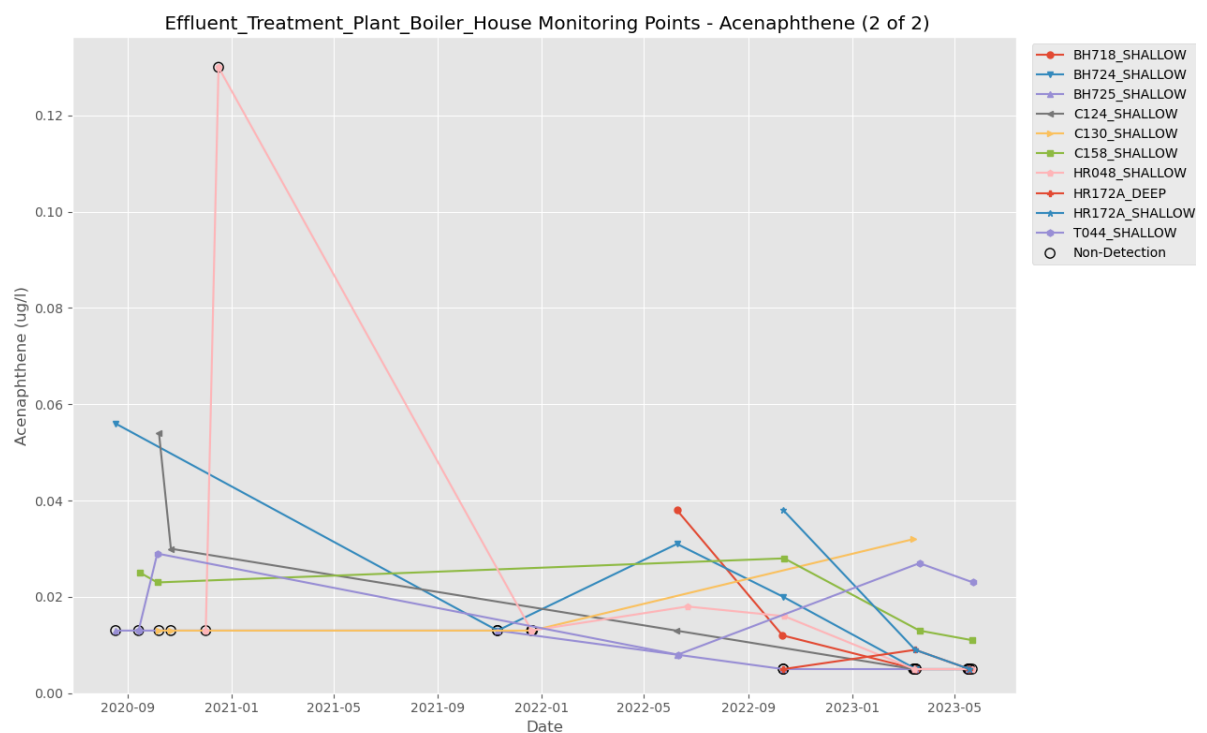
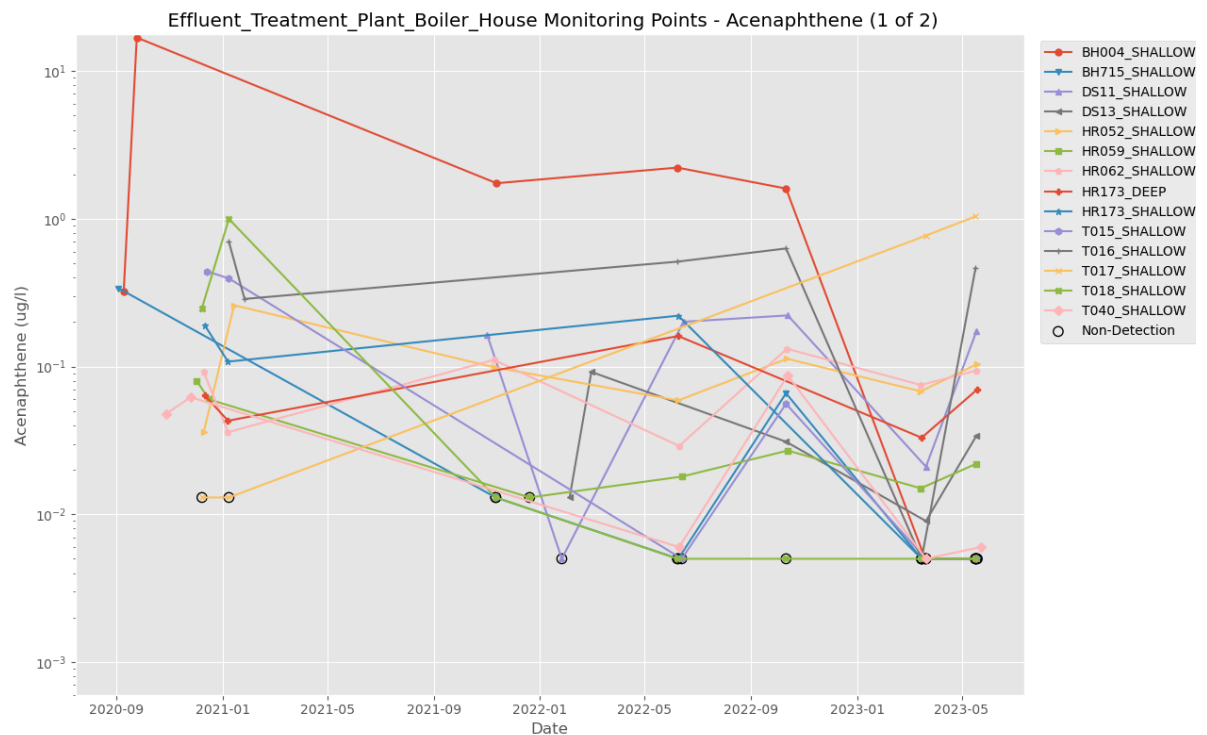
Appendix A

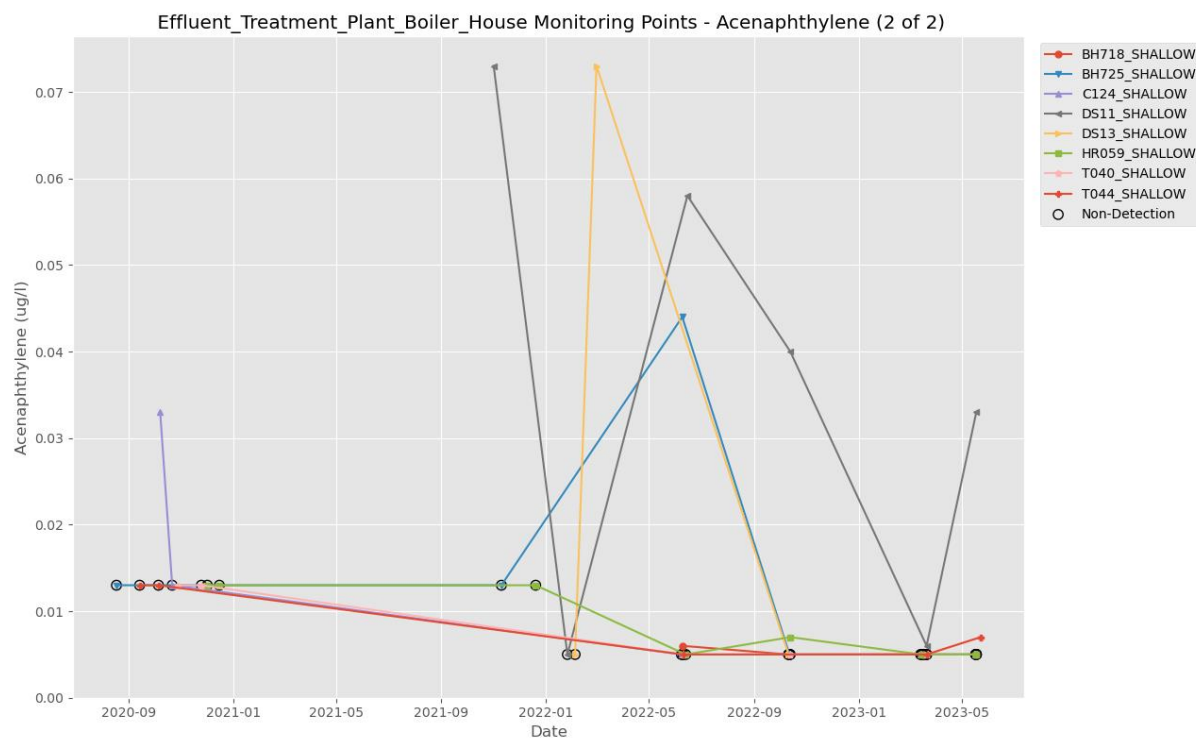
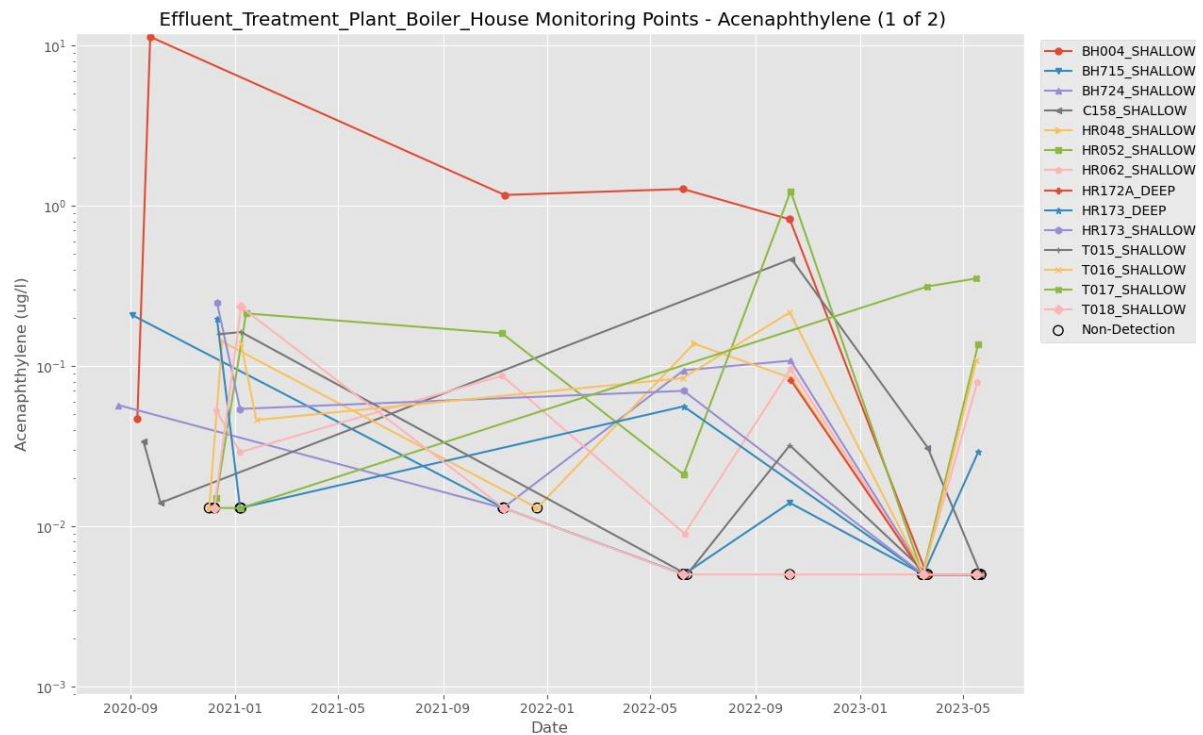
TIME SERIES PLOTS

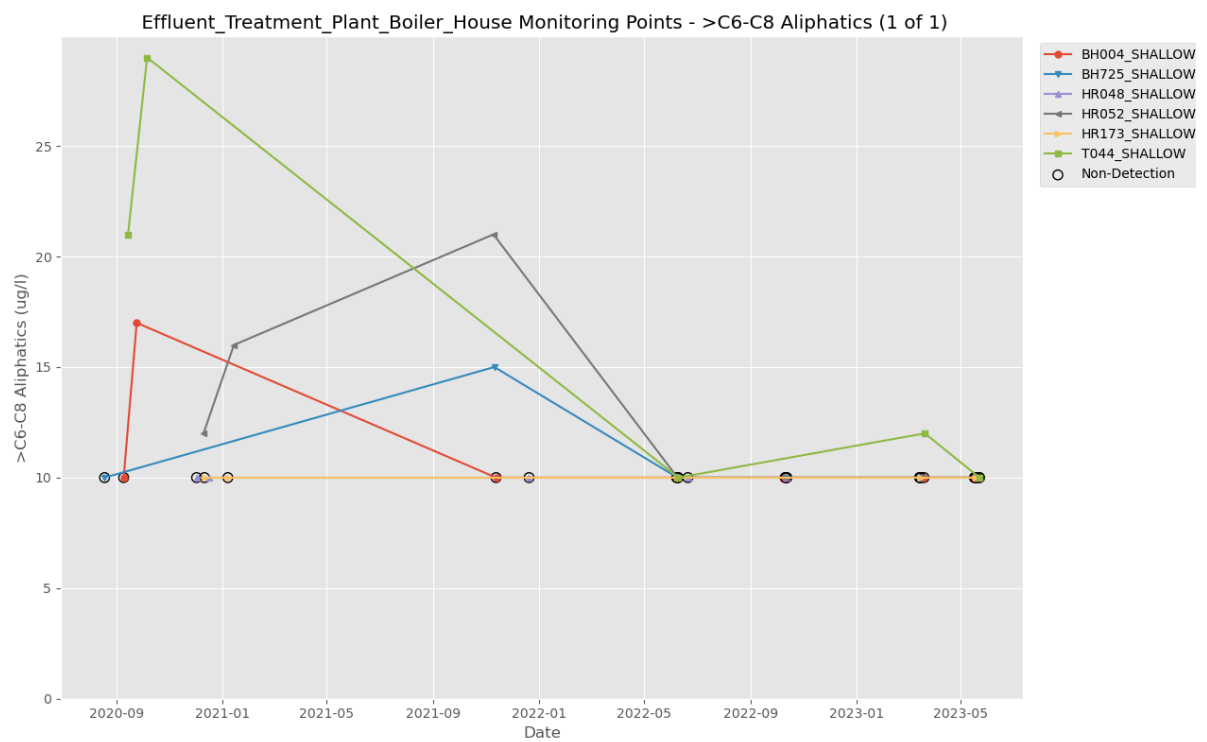
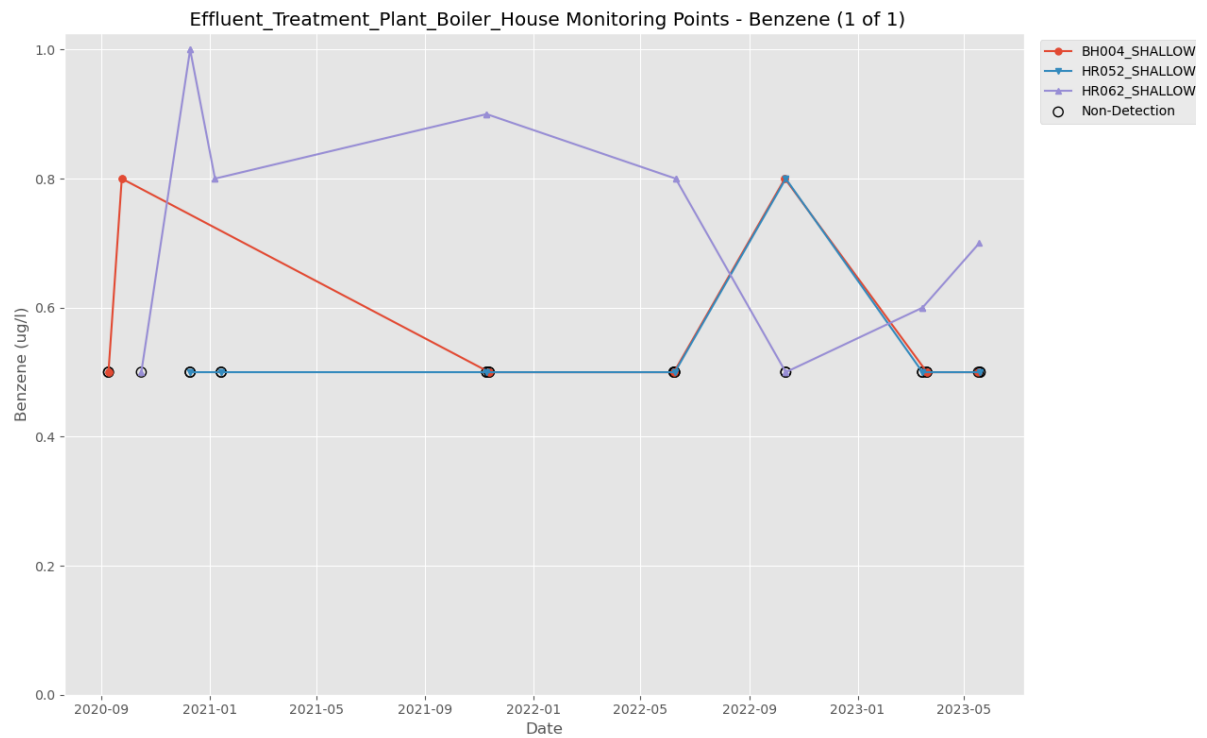


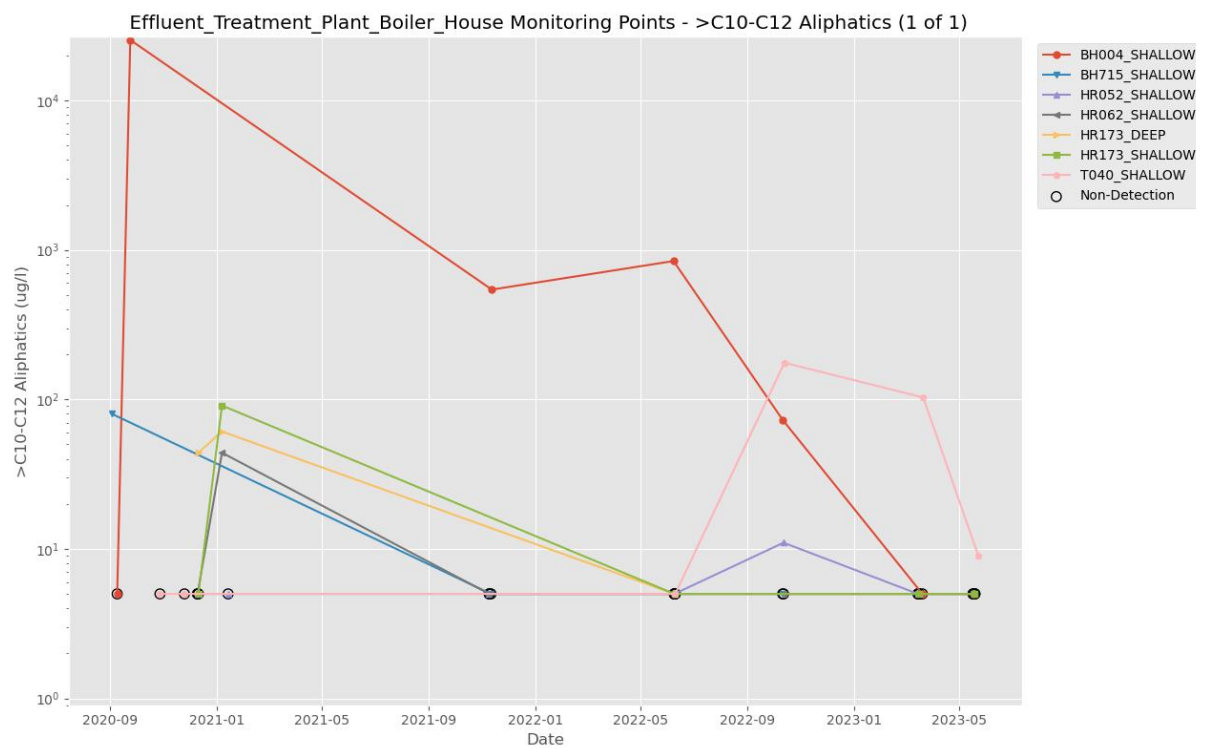
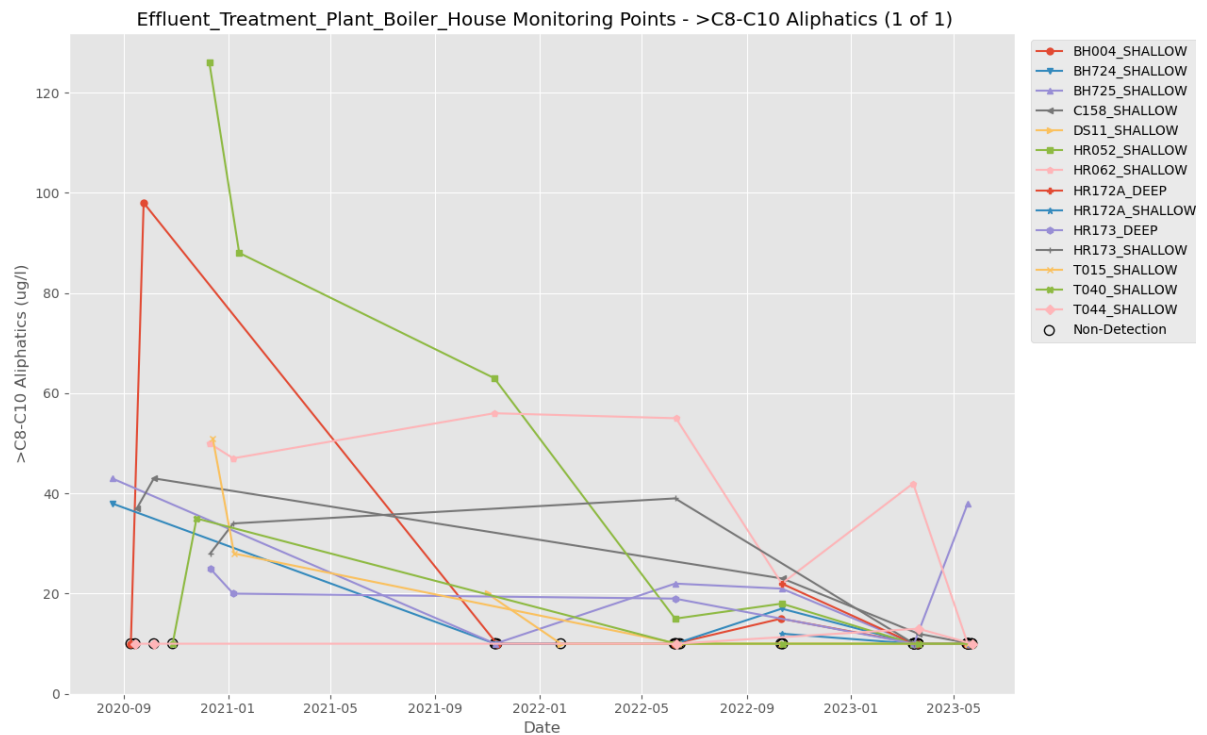
APPENDIX A – TIMESERIES GRAPHS

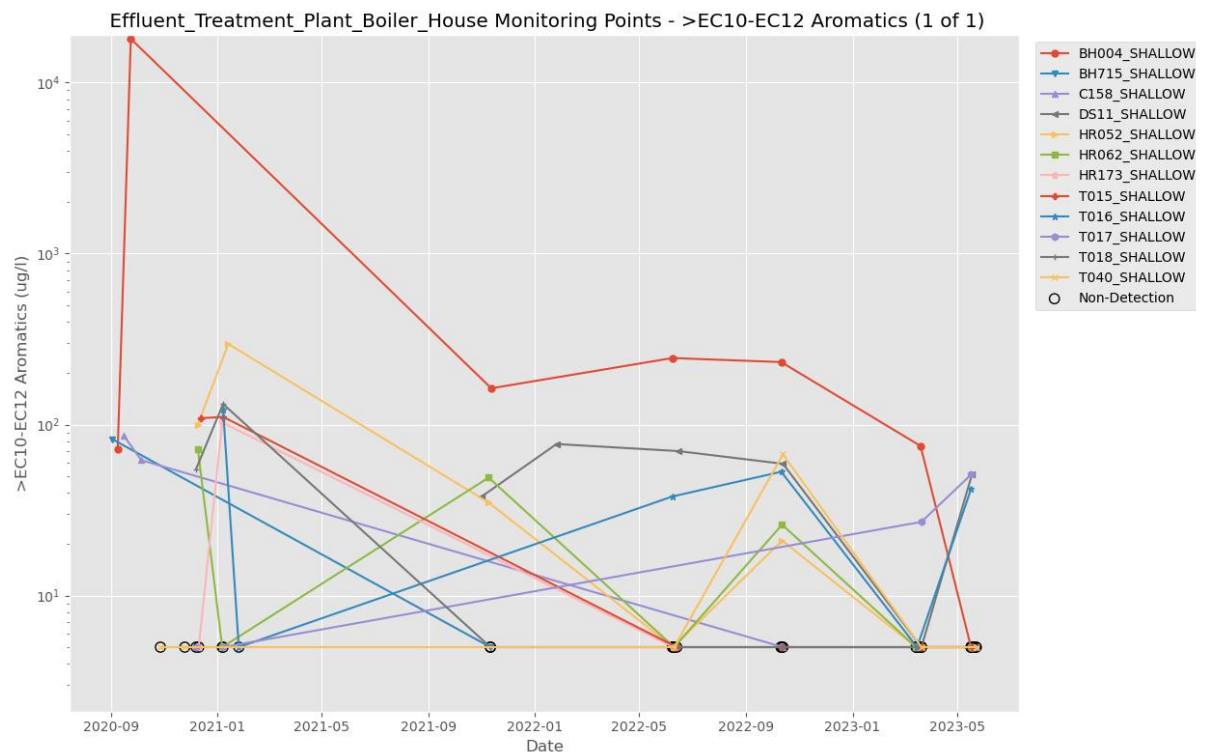
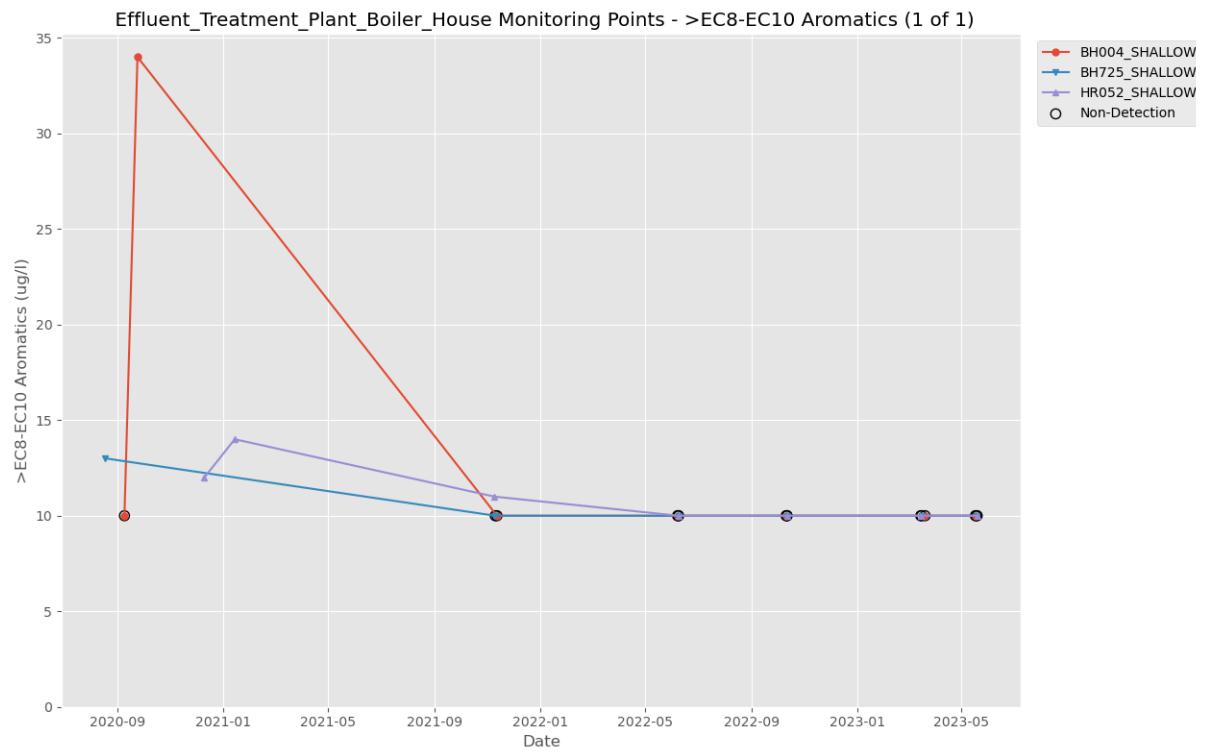
EFFLUENT TREATMENT PLANT AND BOILER HOUSE

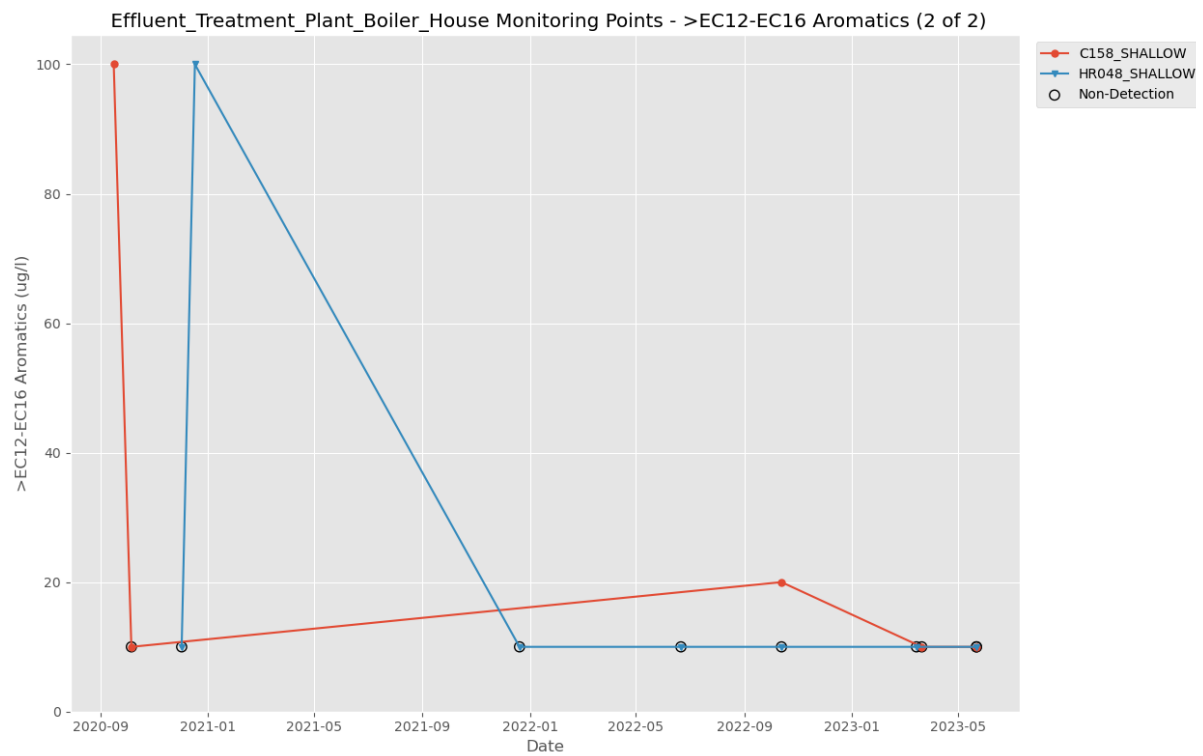
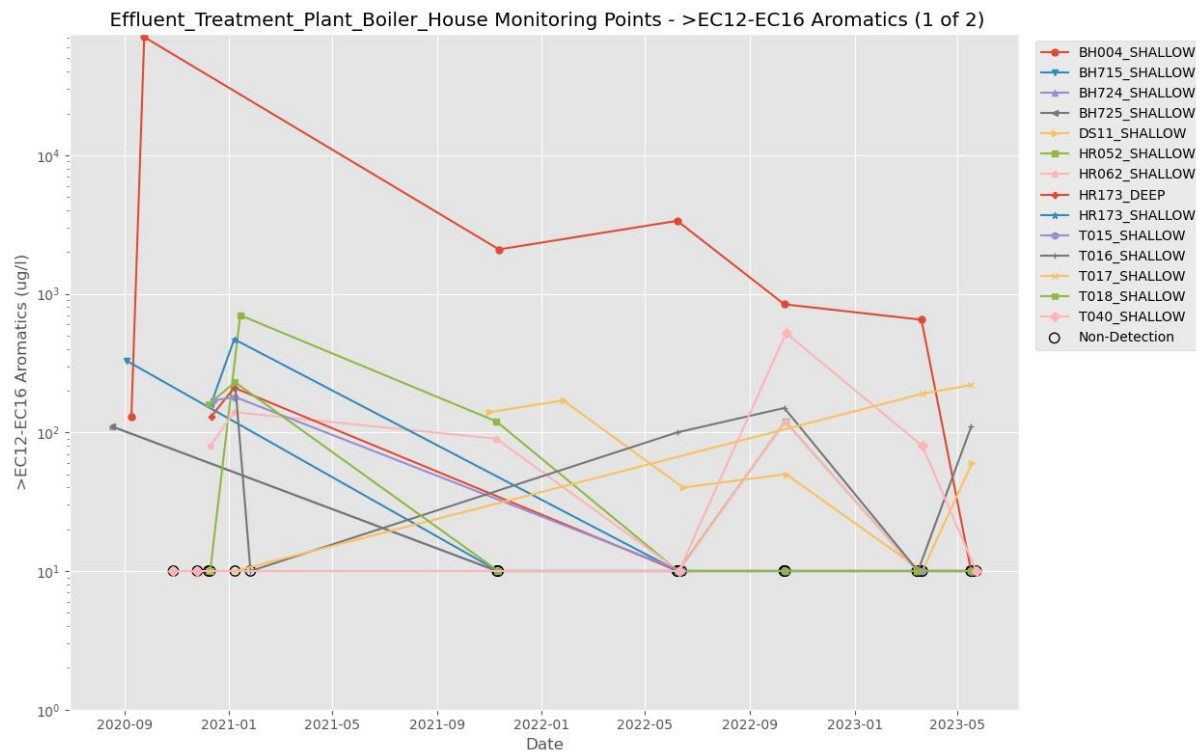


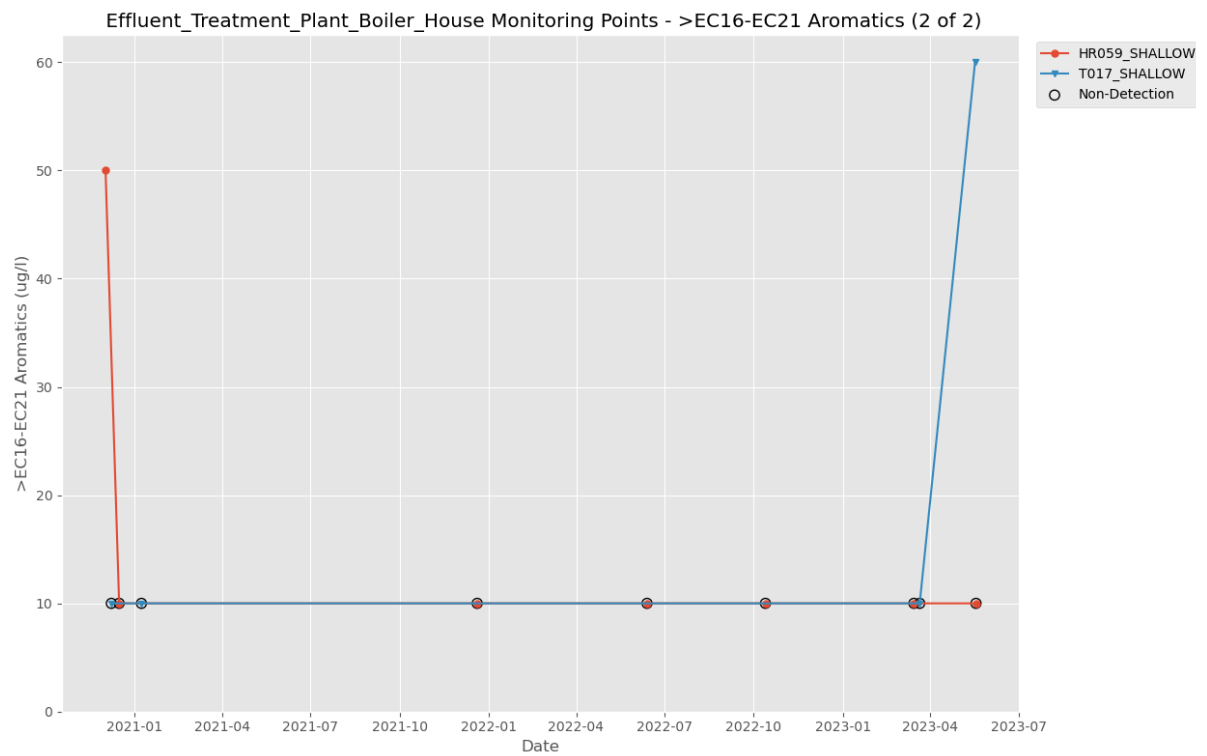
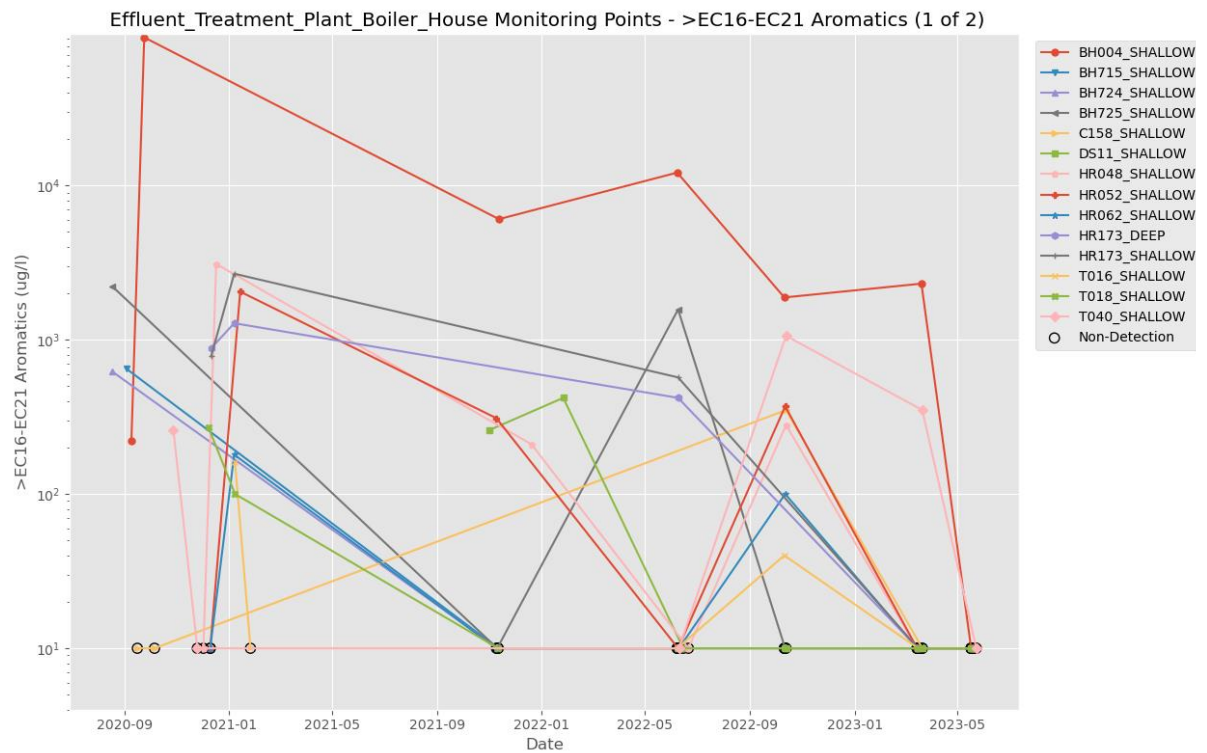


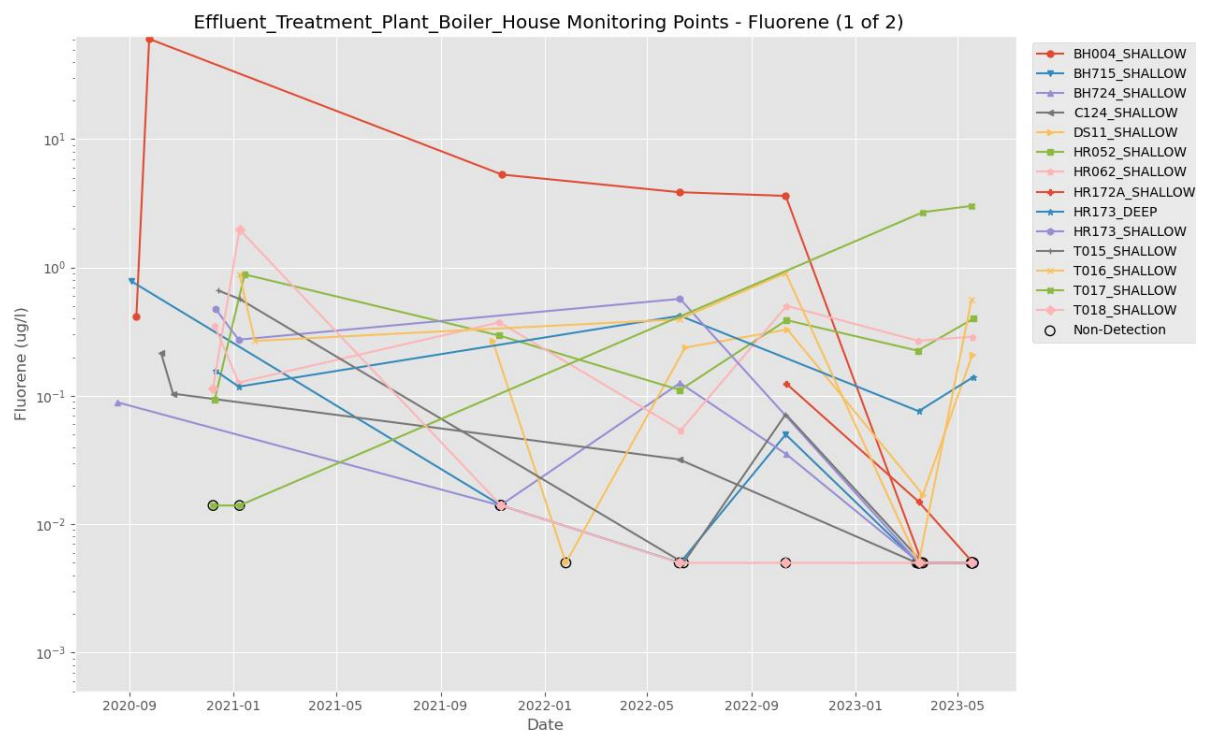
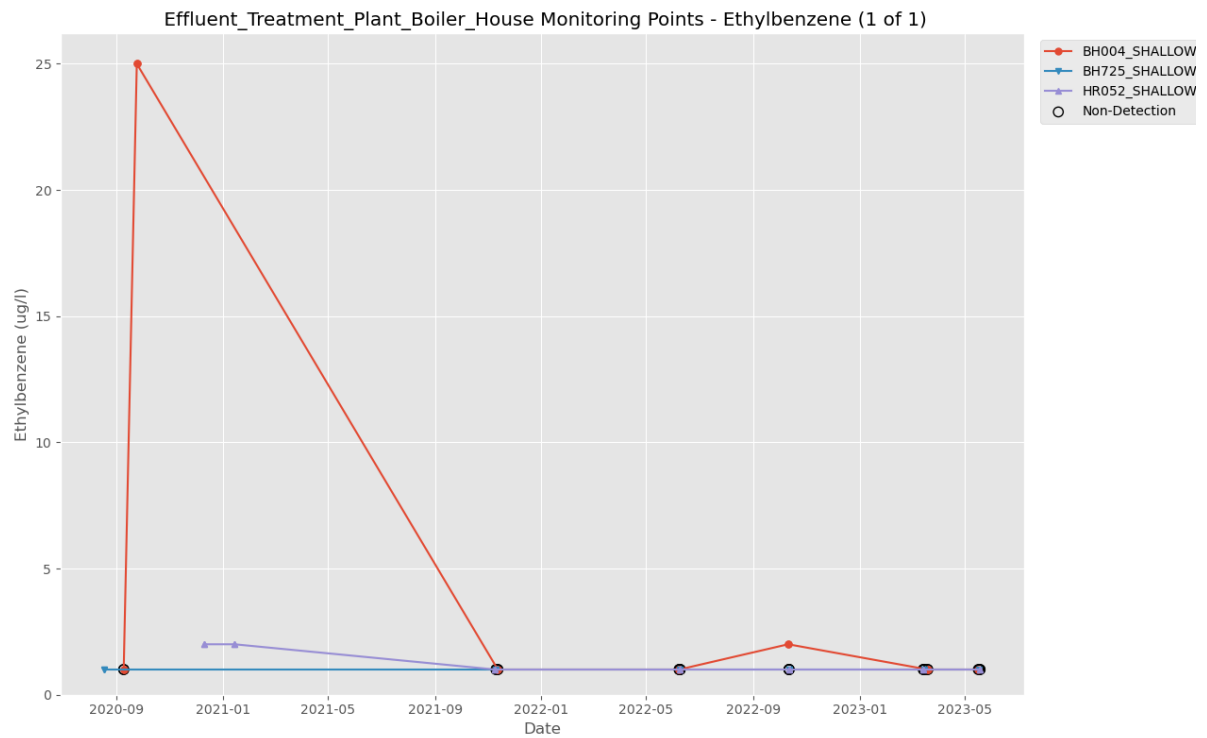


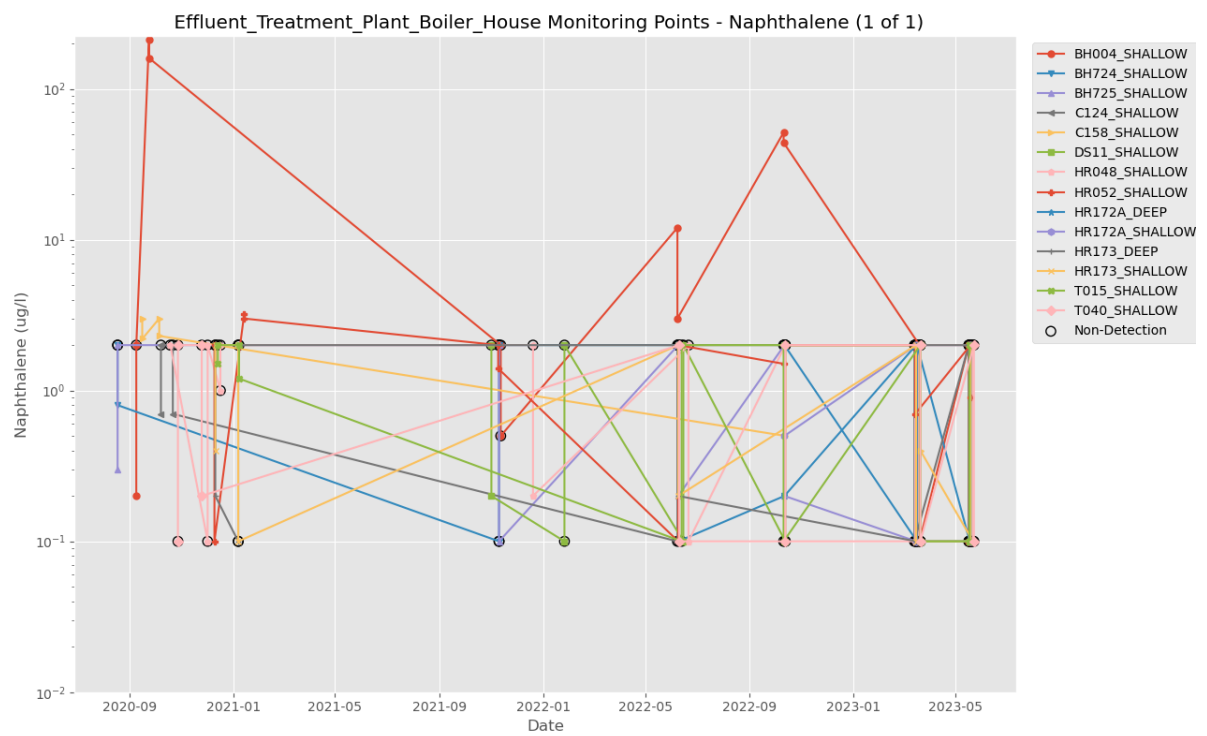
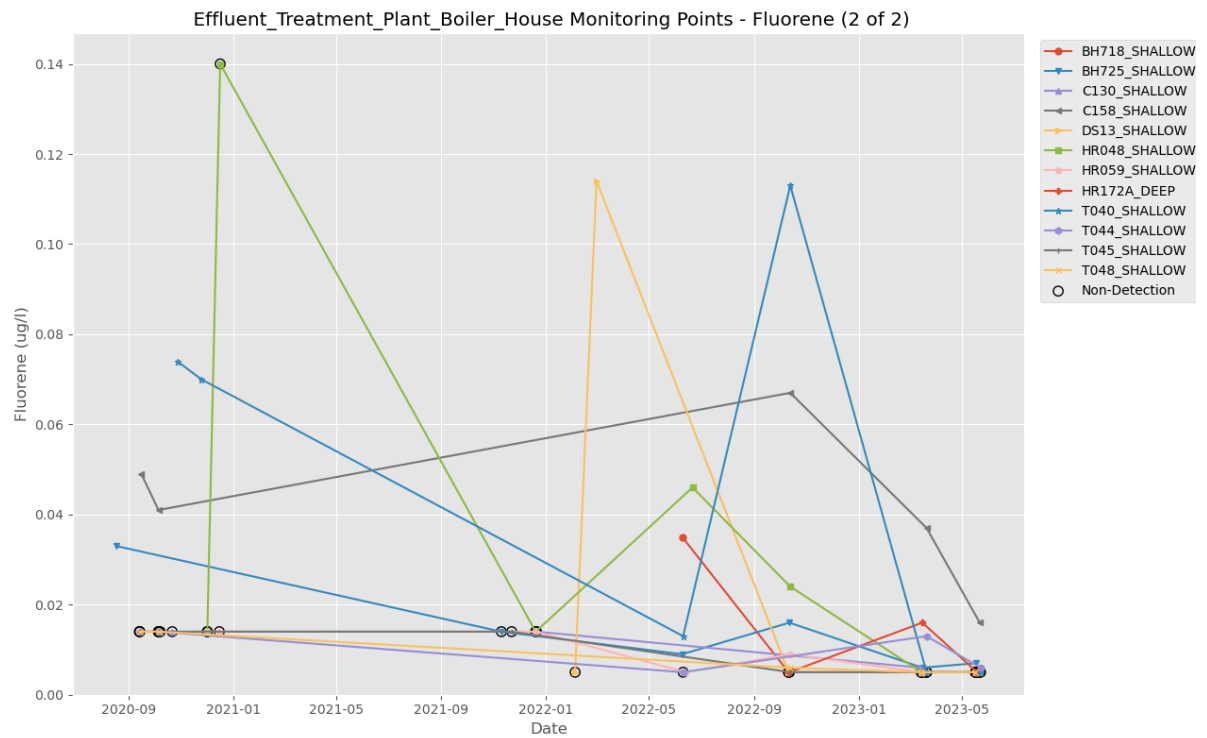


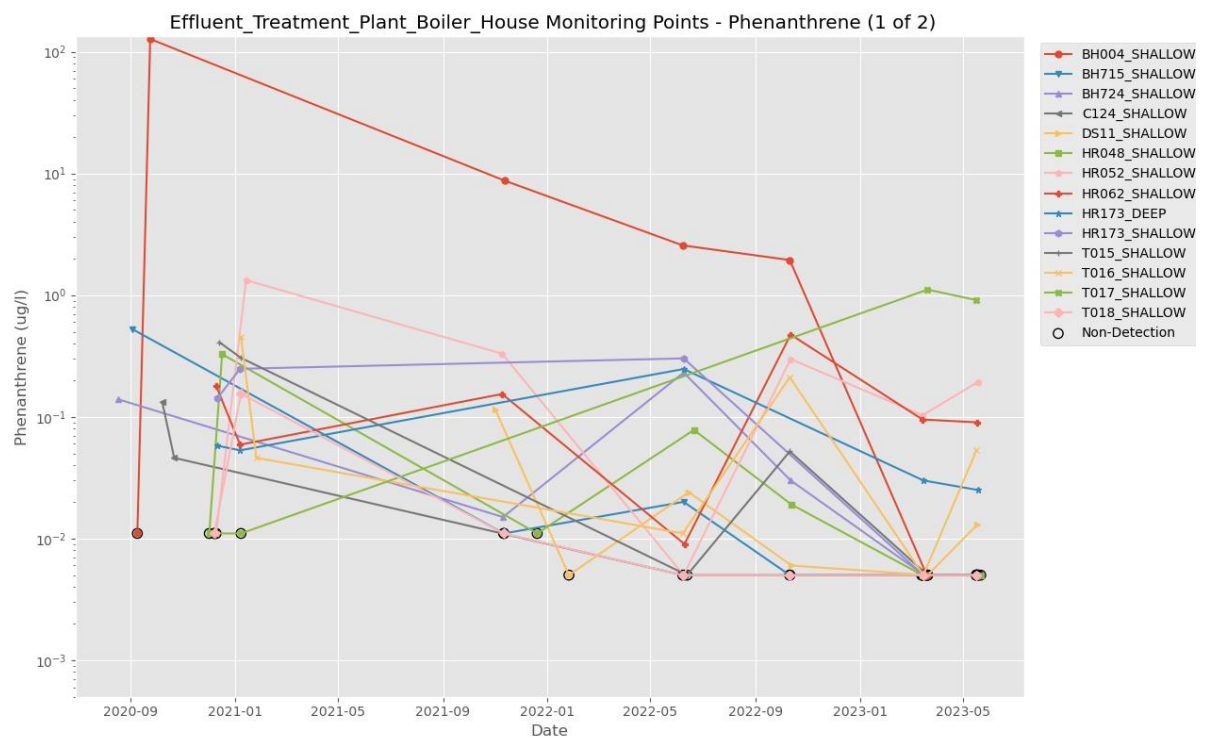
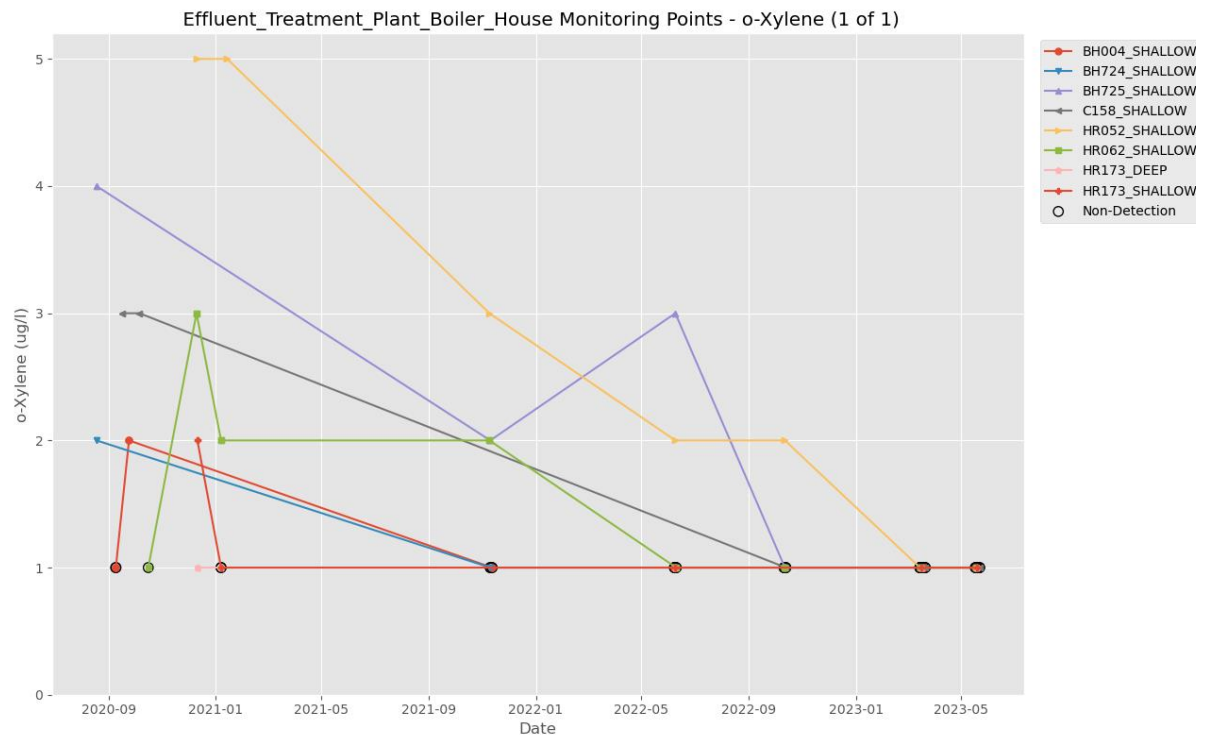




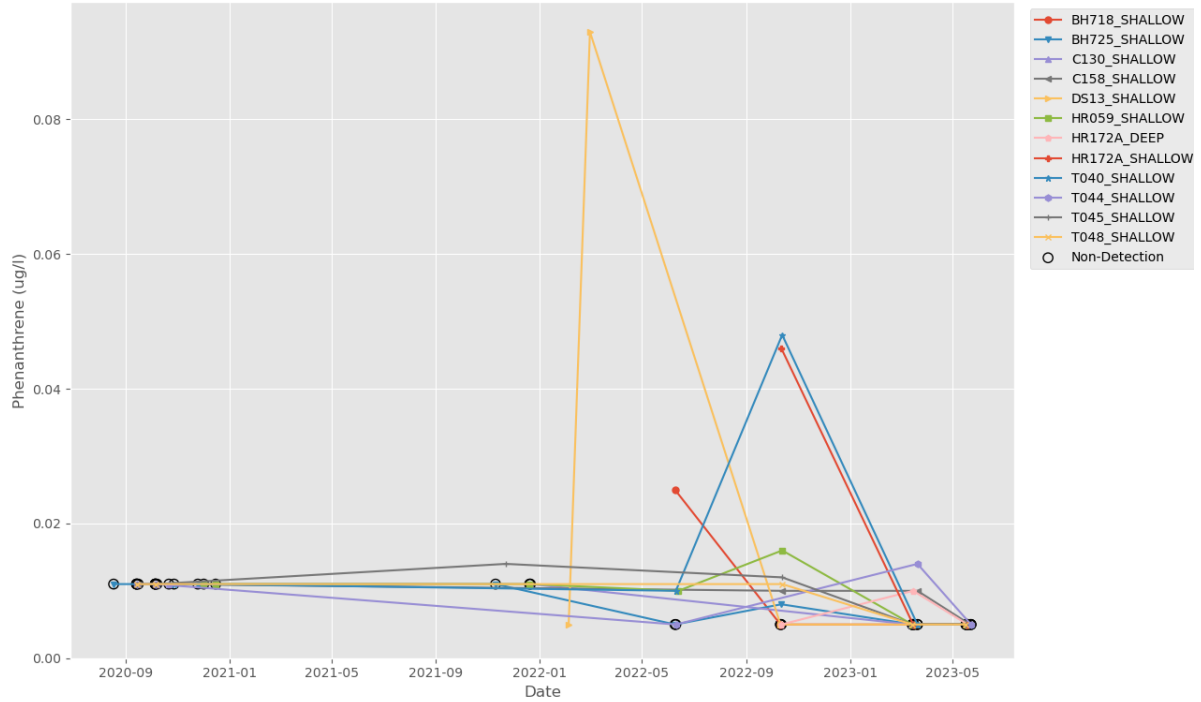




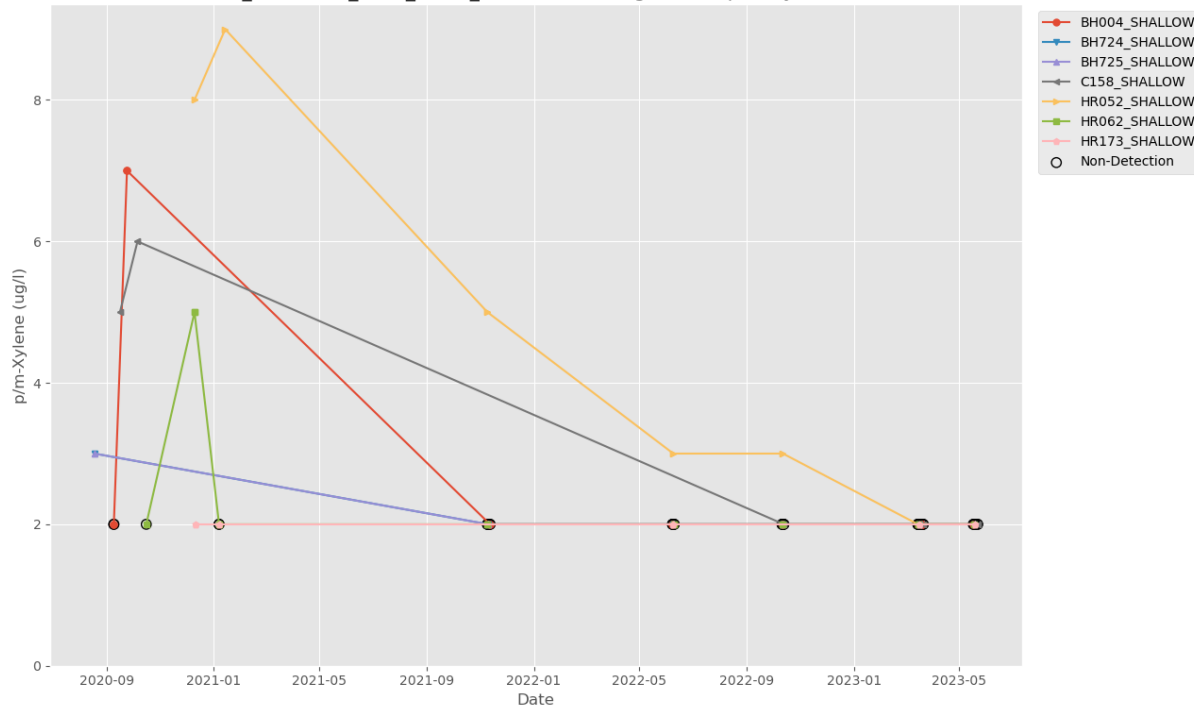


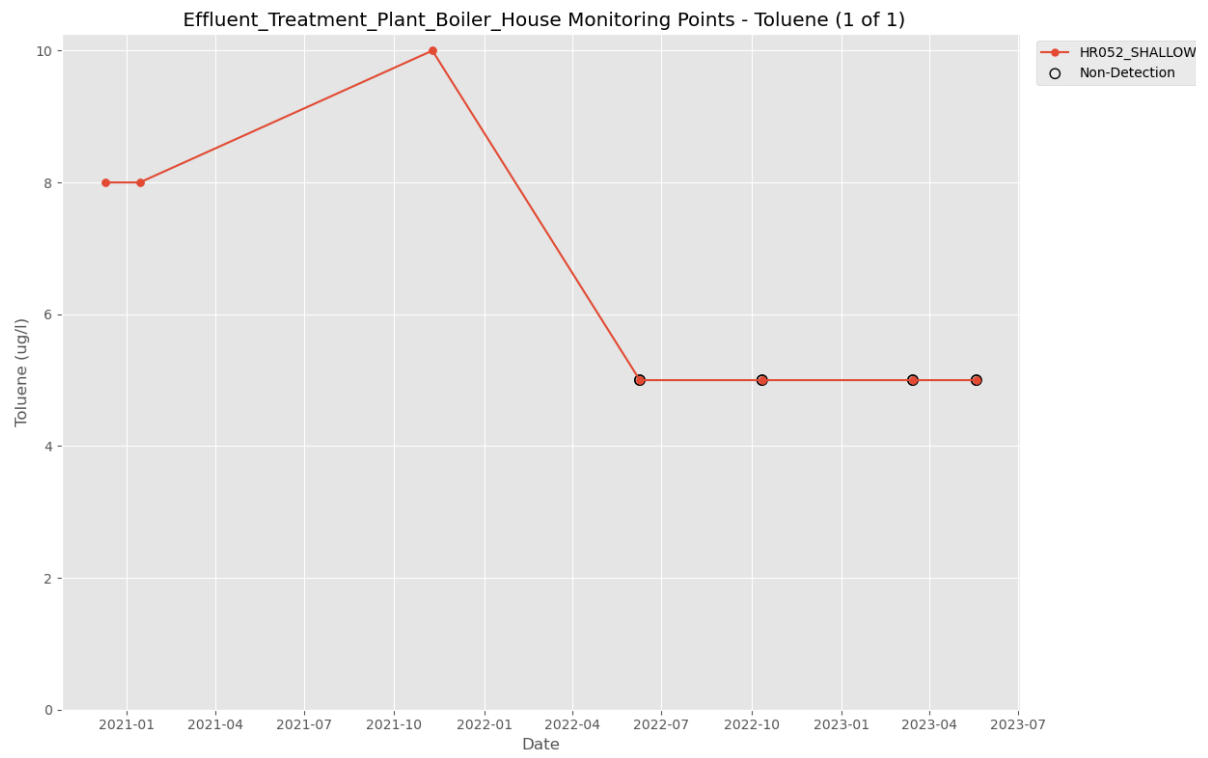


Effluent_Treatment_Plant_Boiler_House Monitoring Points - Phenanthrene (2 of 2)

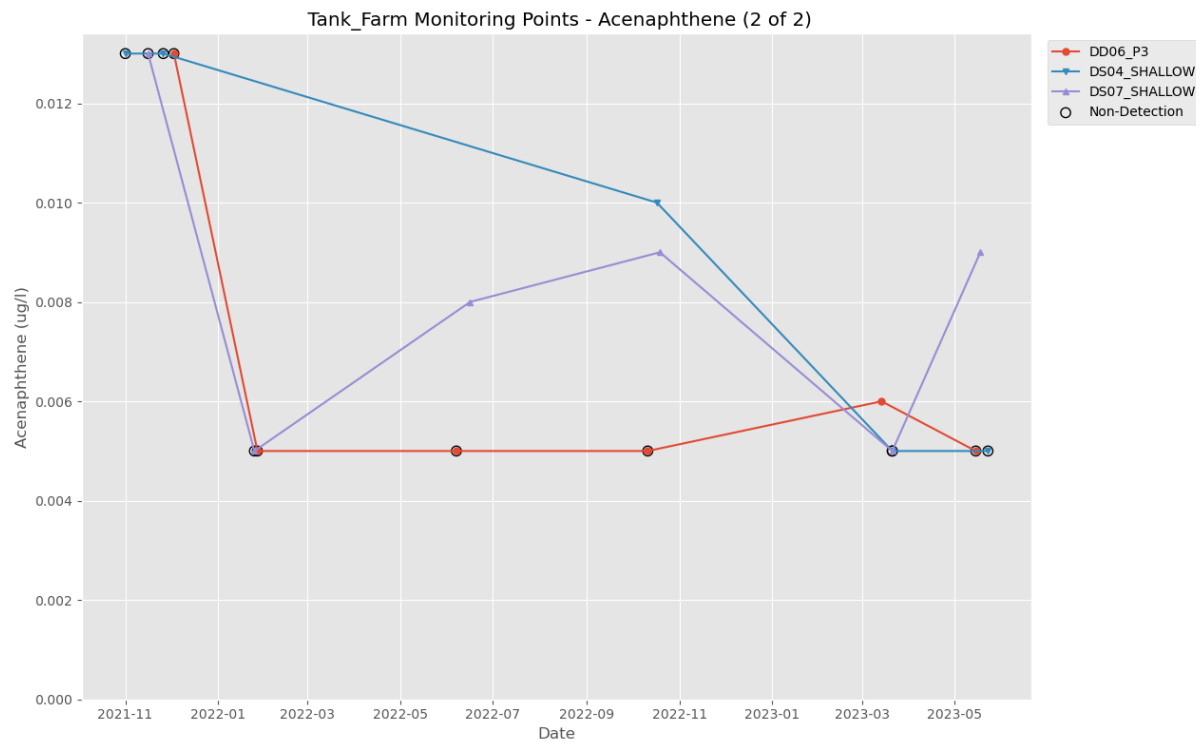
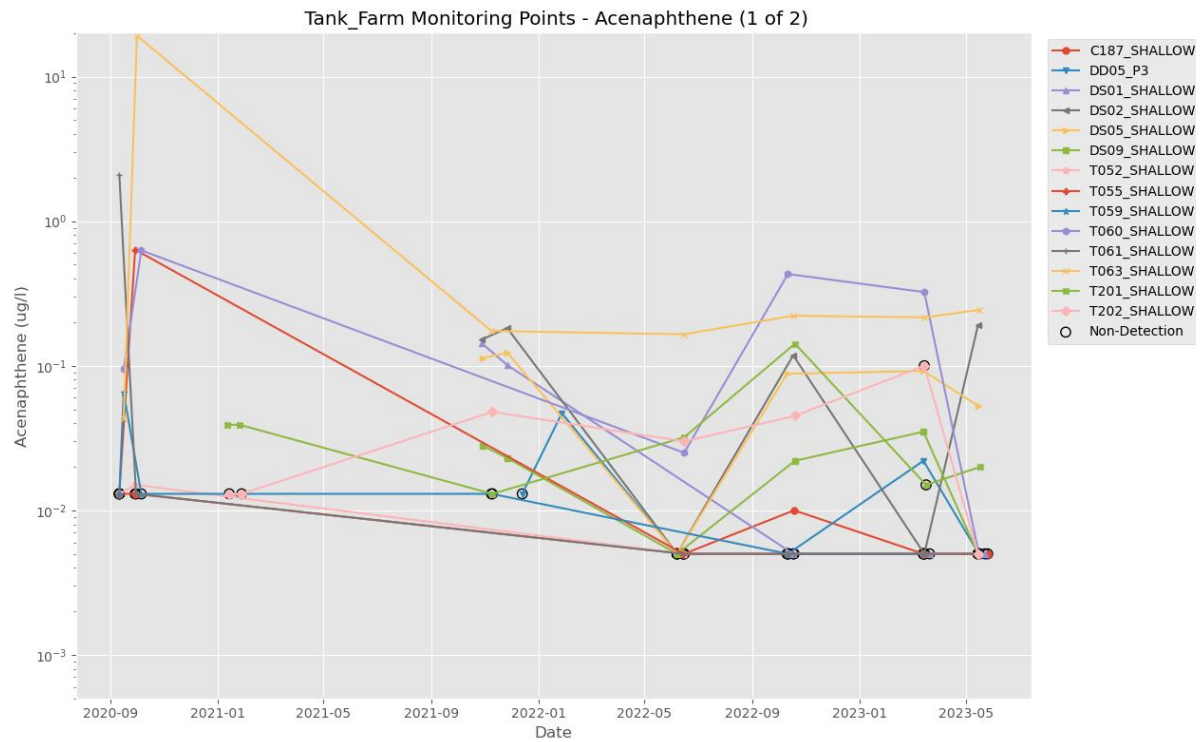


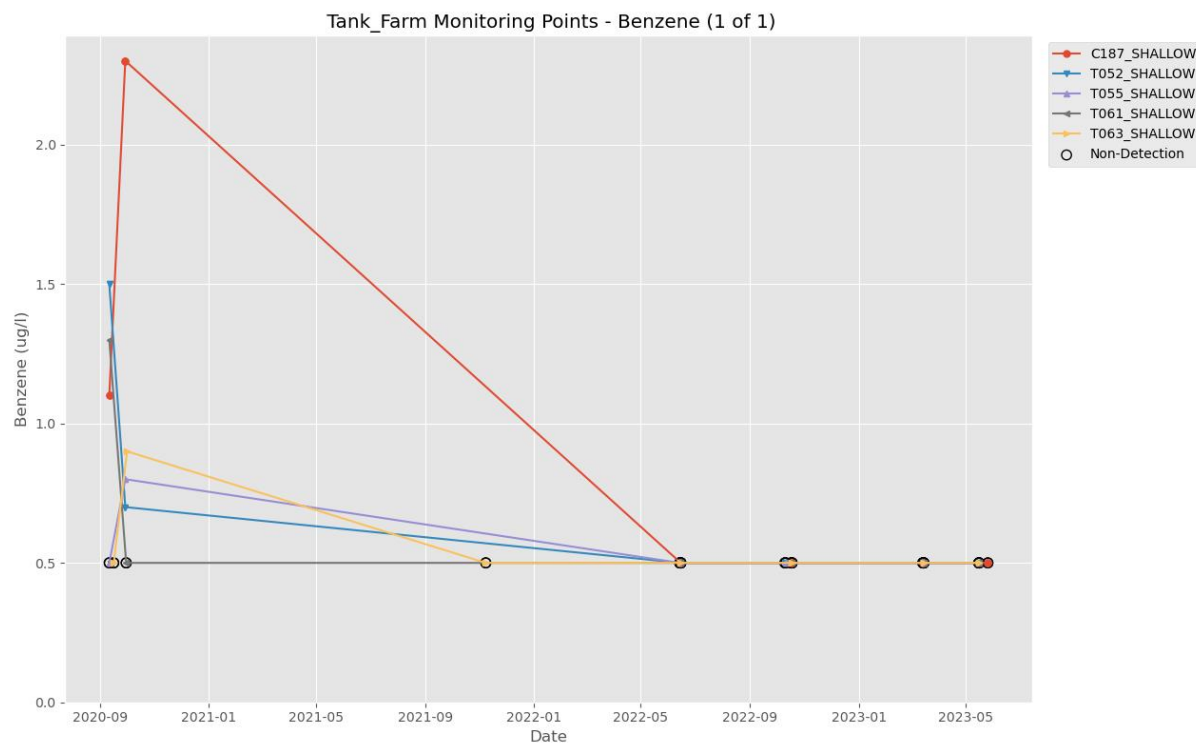
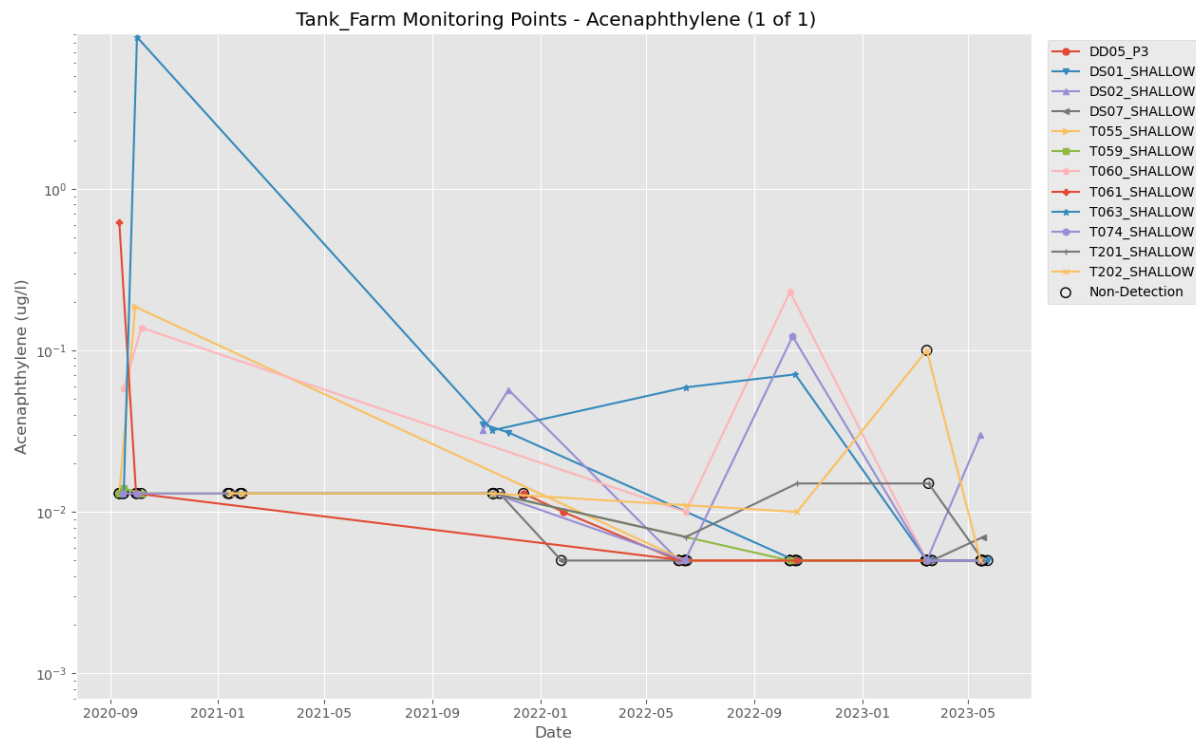
Effluent_Treatment_Plant_Boiler_House Monitoring Points - p/m-Xylene (1 of 1)

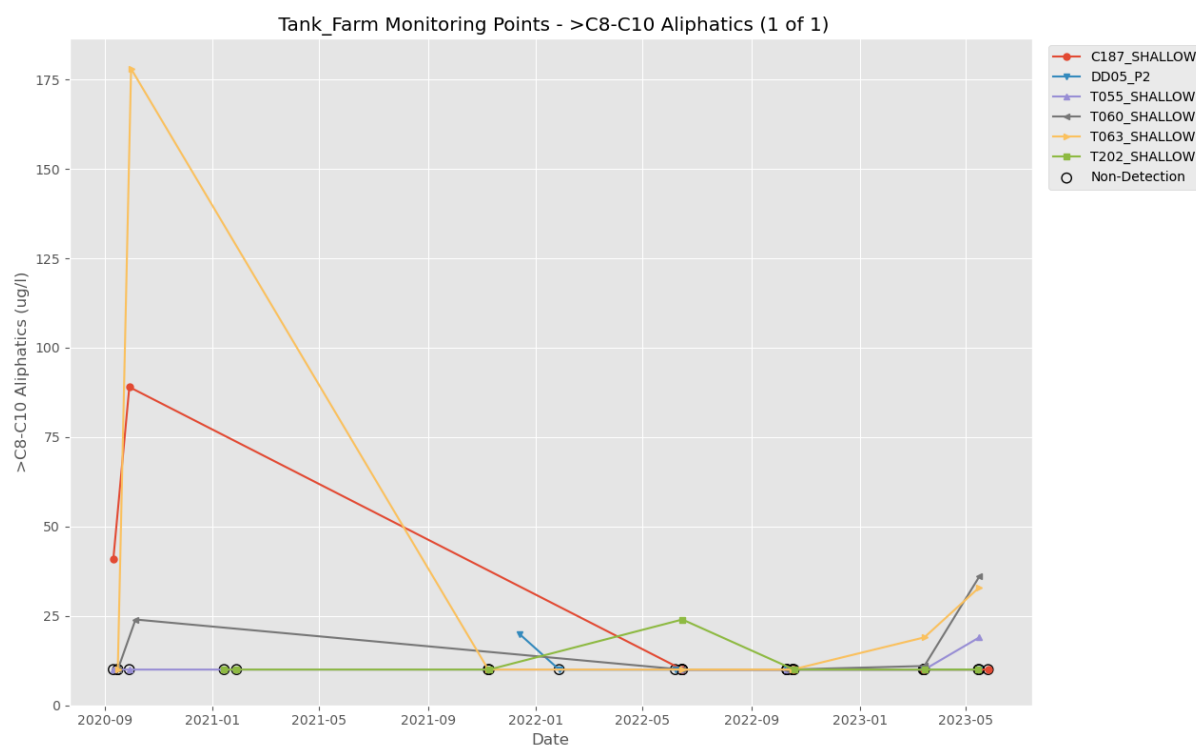
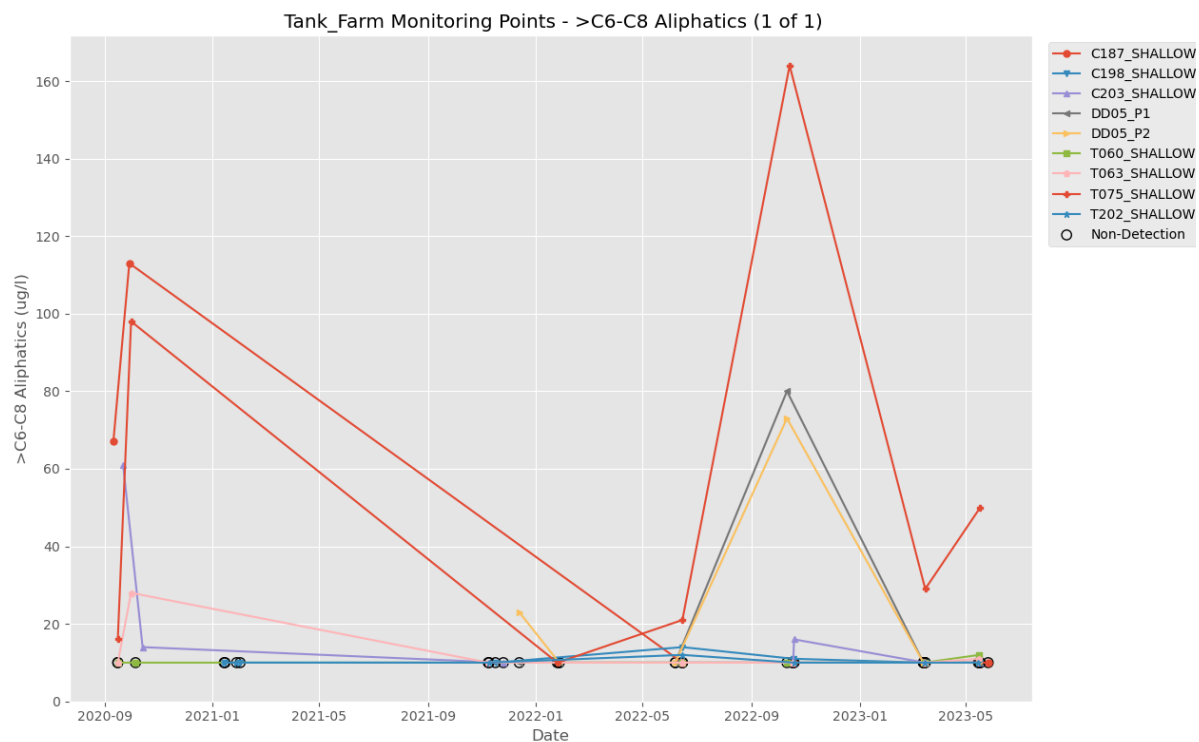


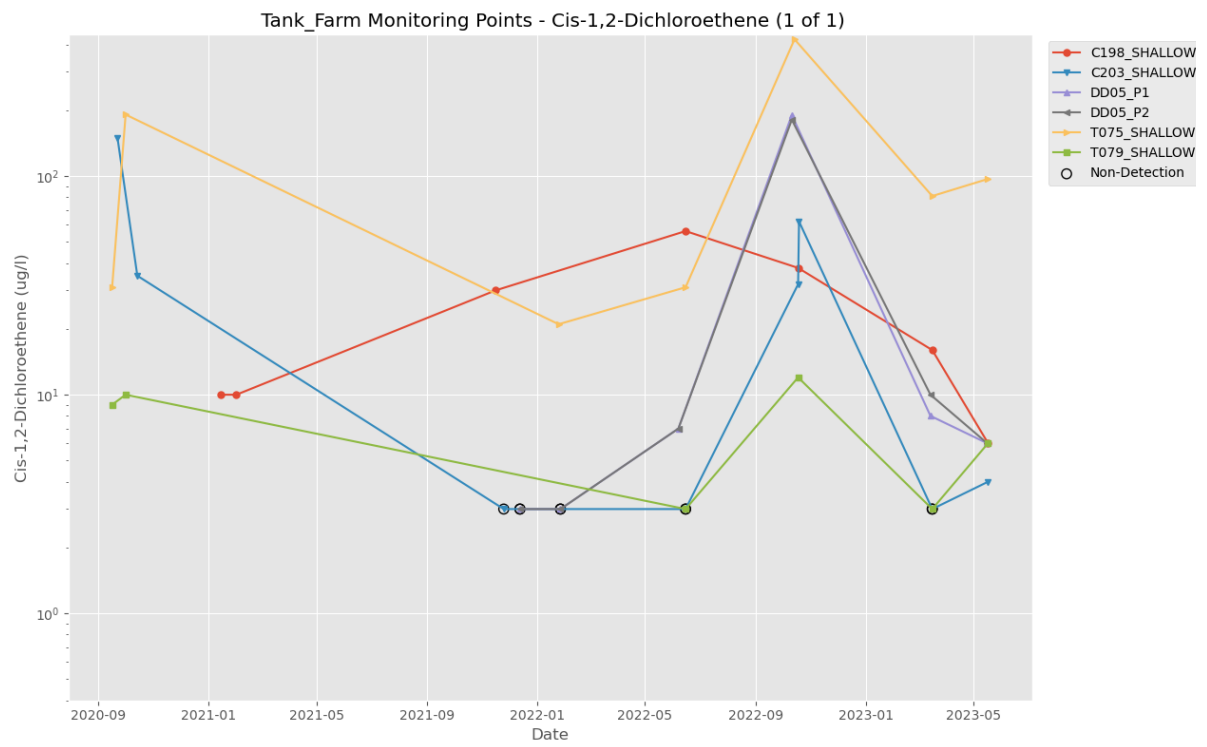
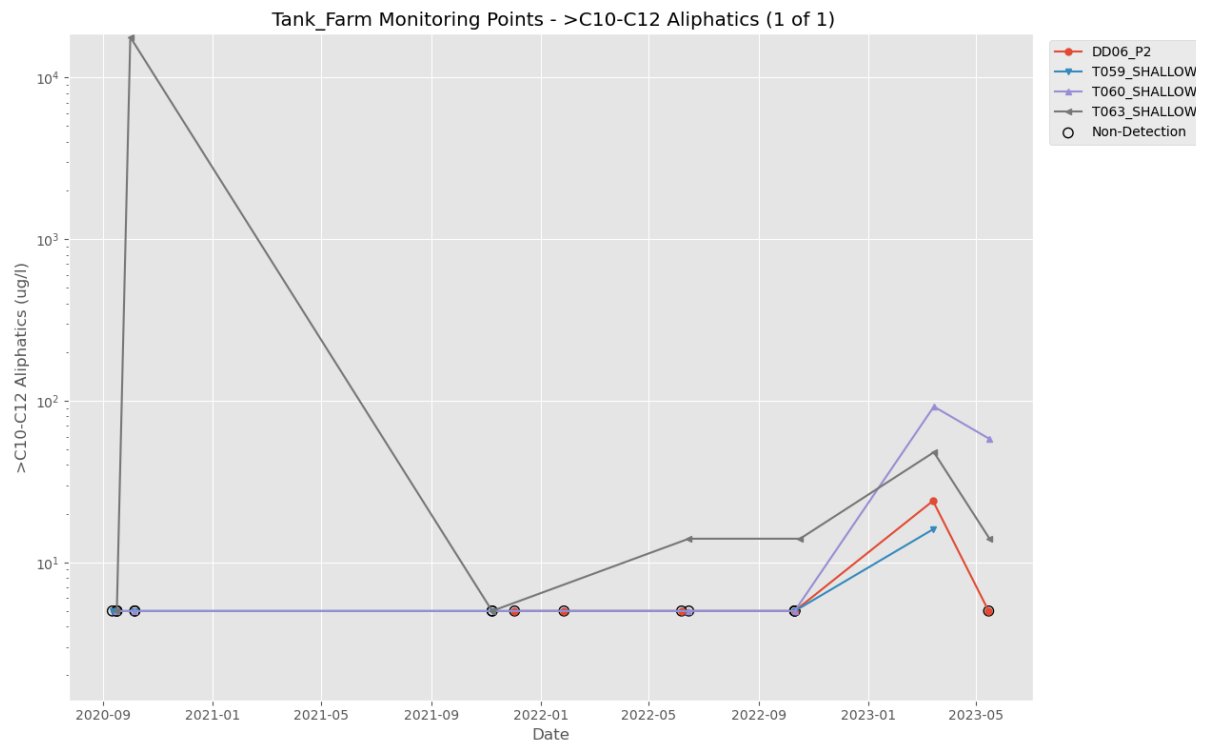


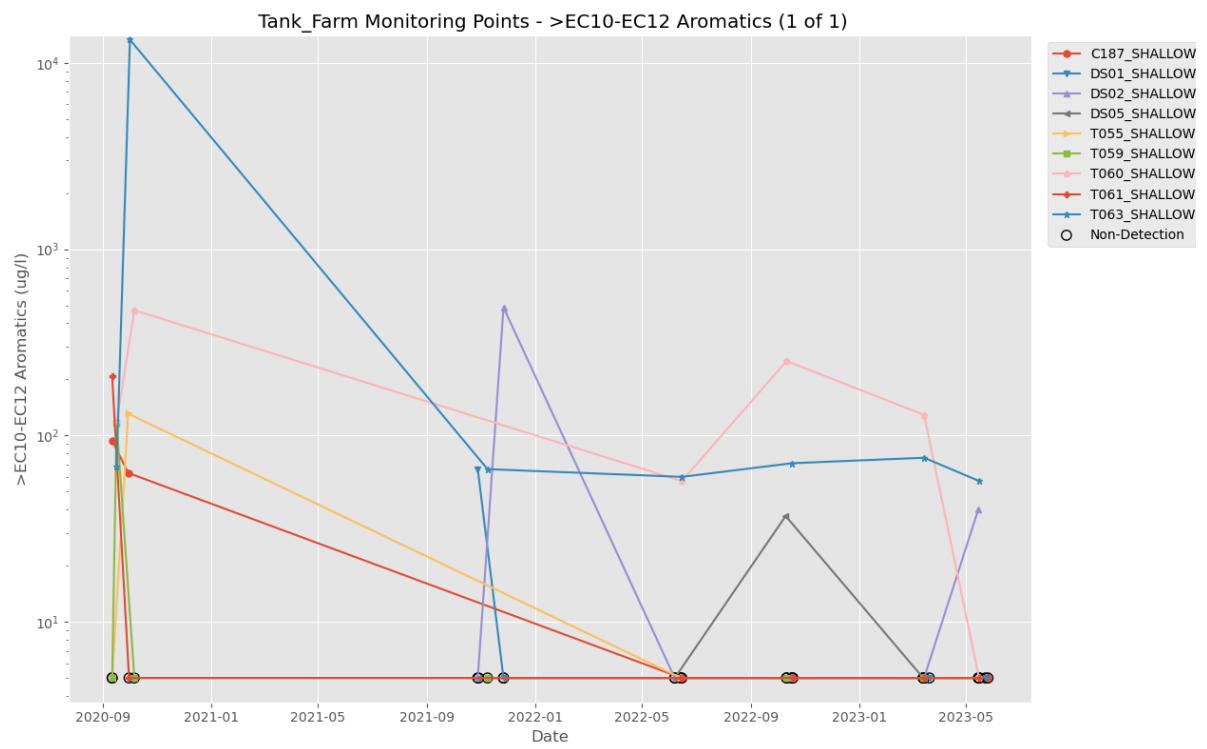
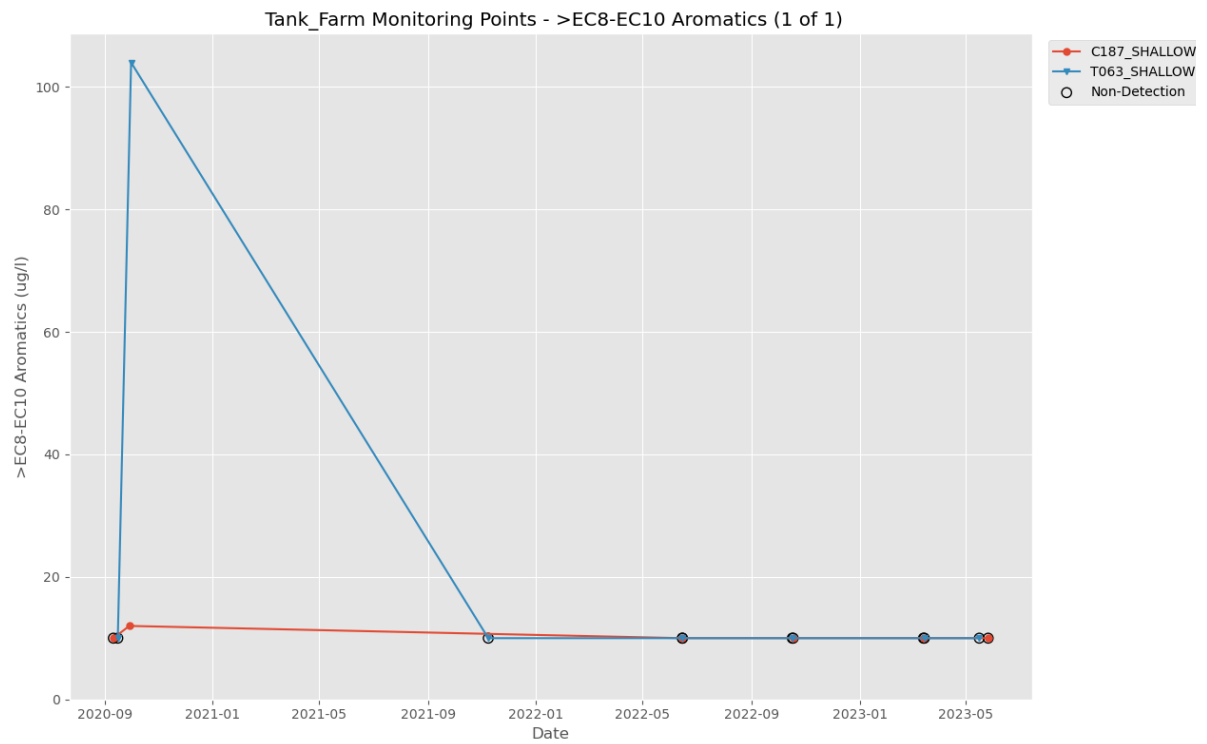
TANK FARM

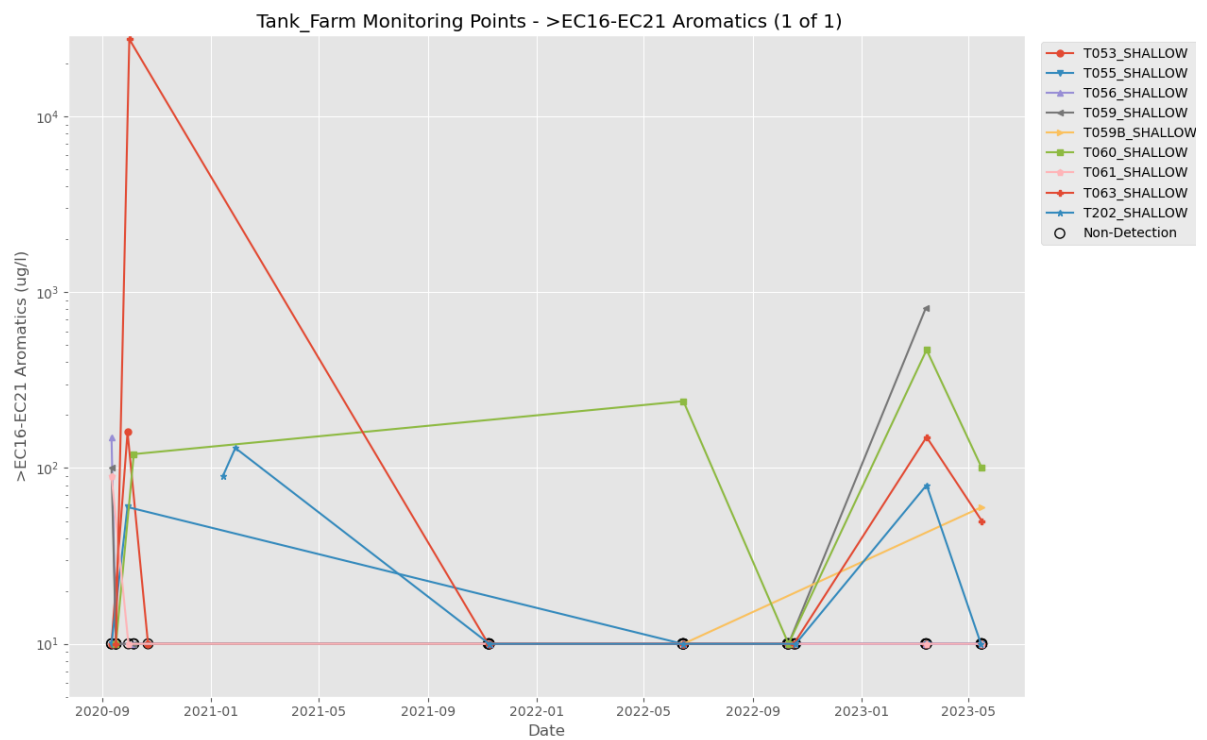
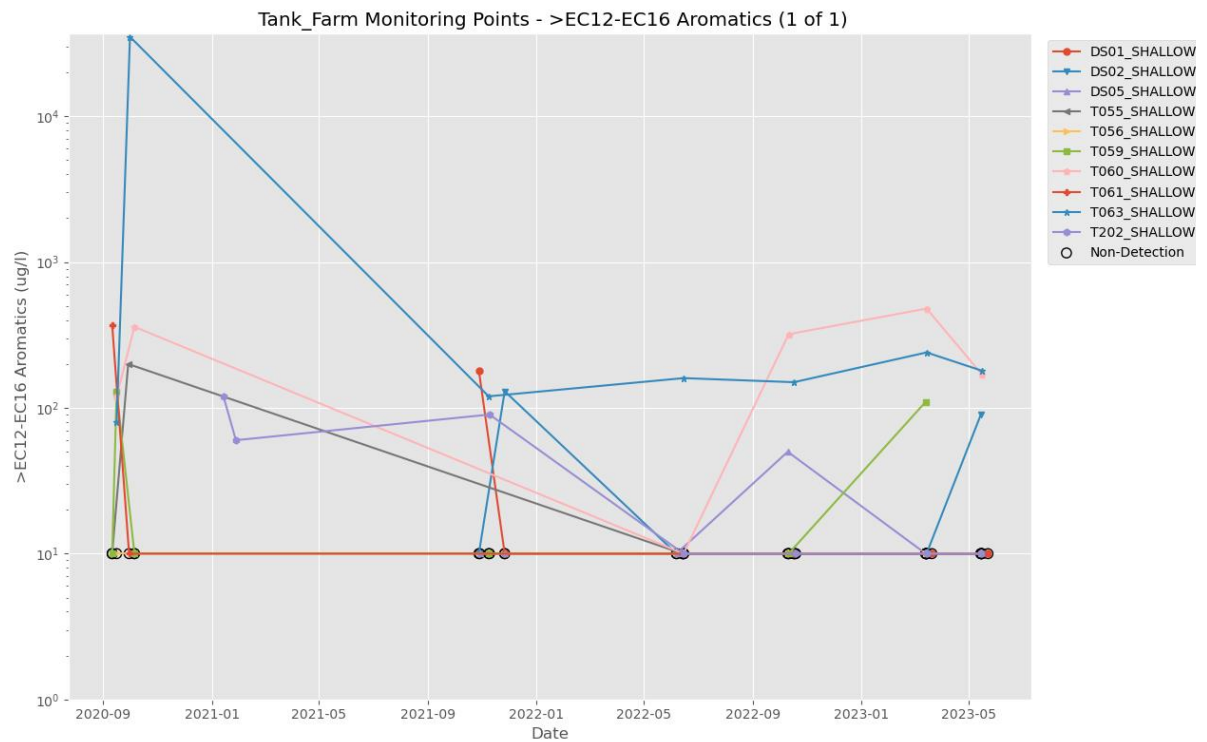


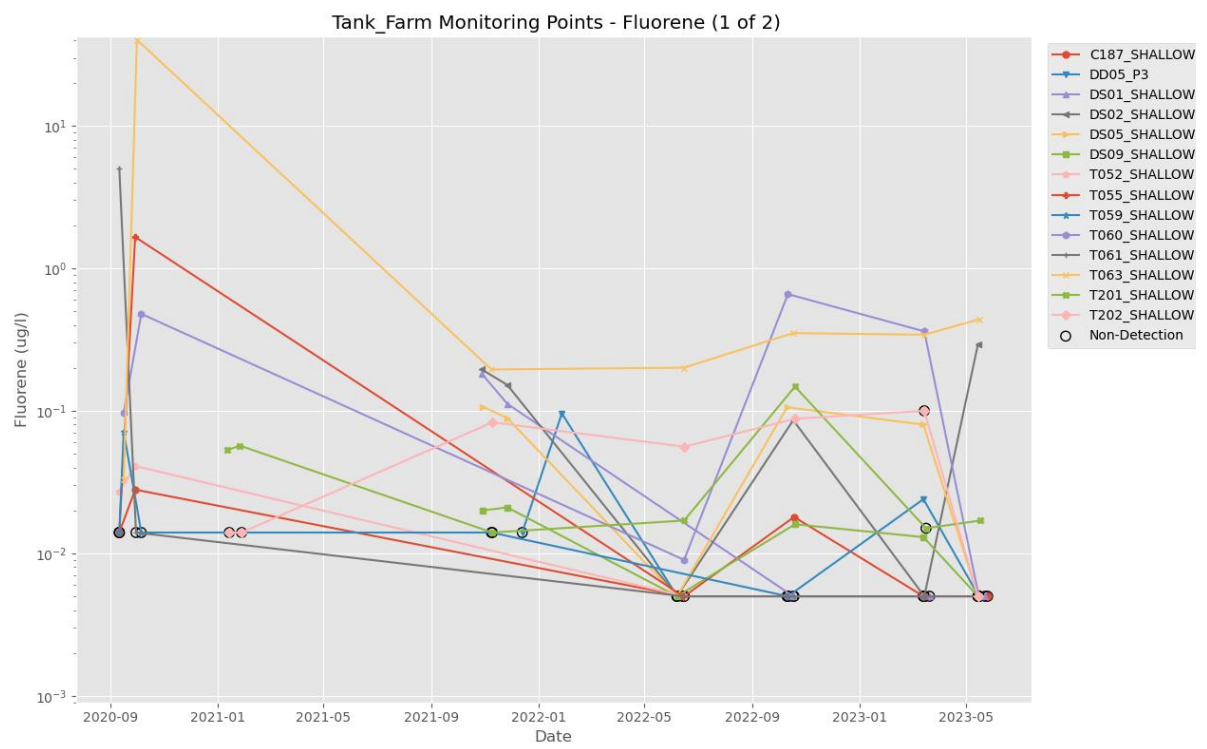
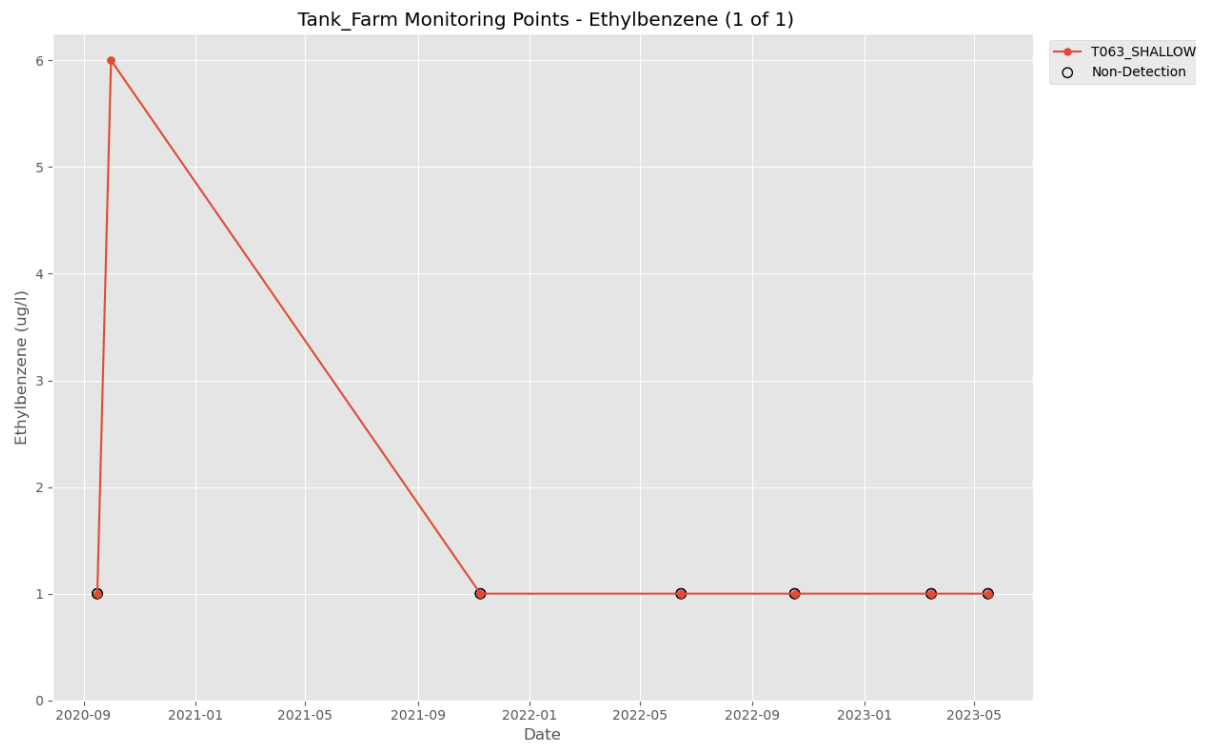


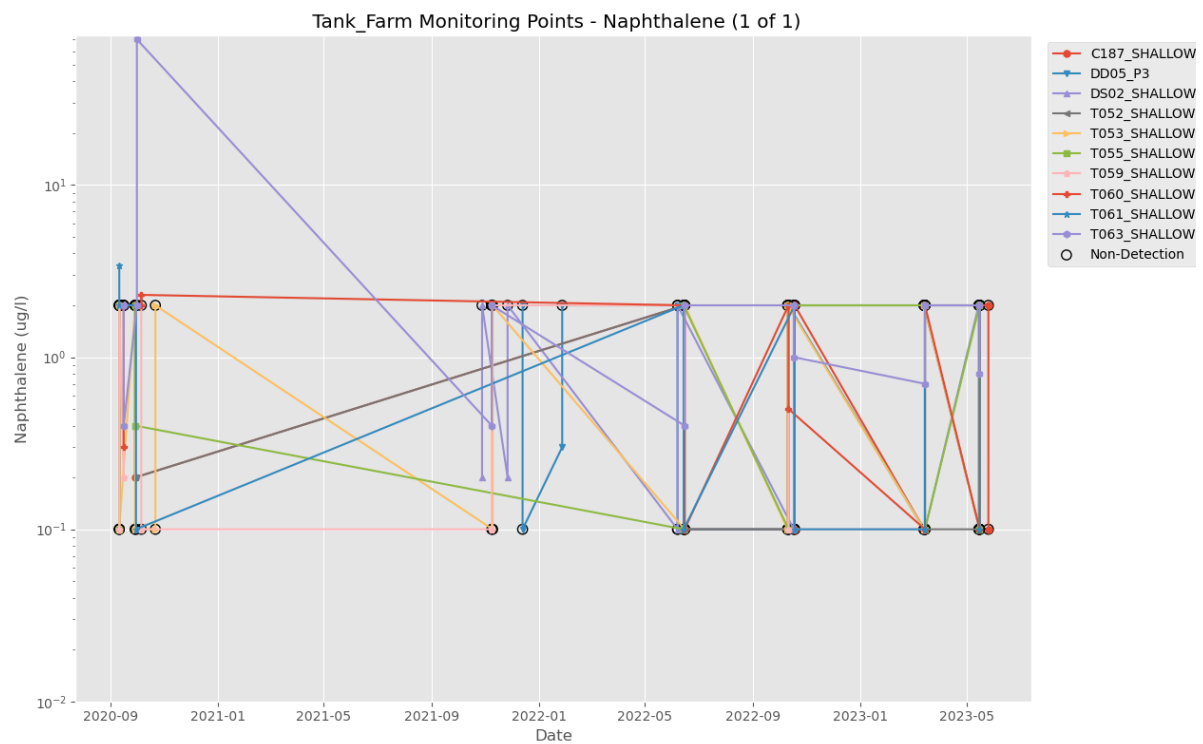
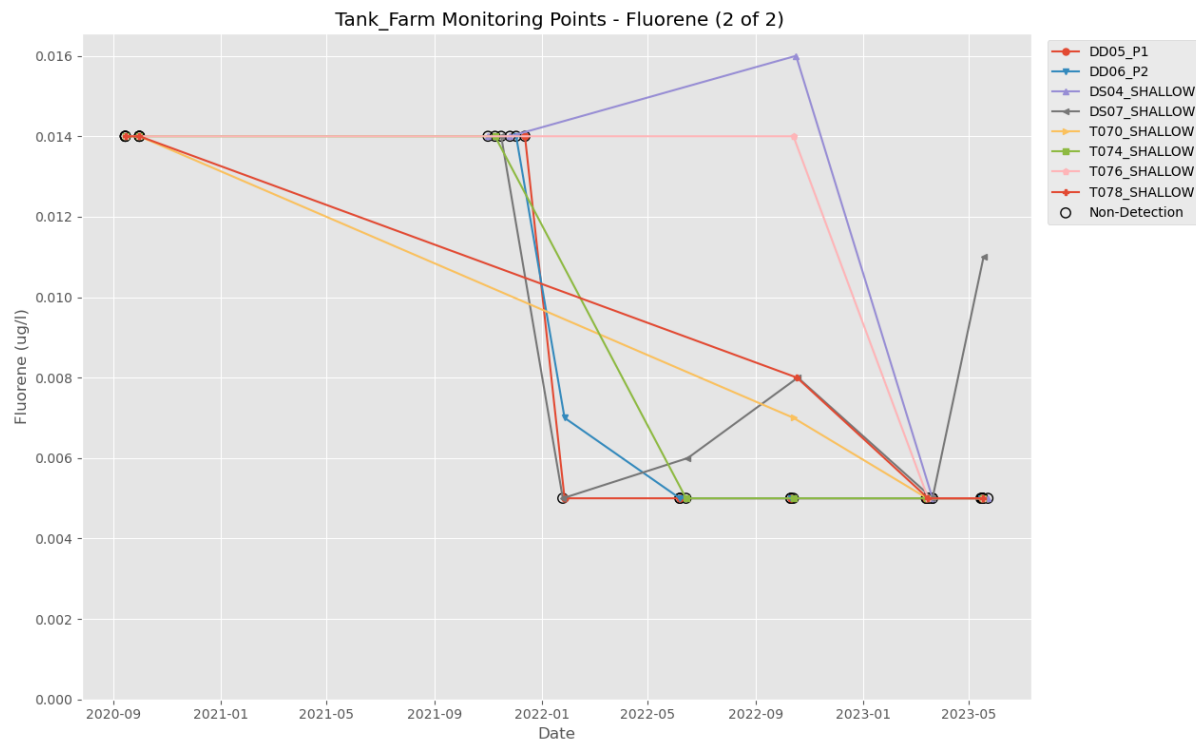


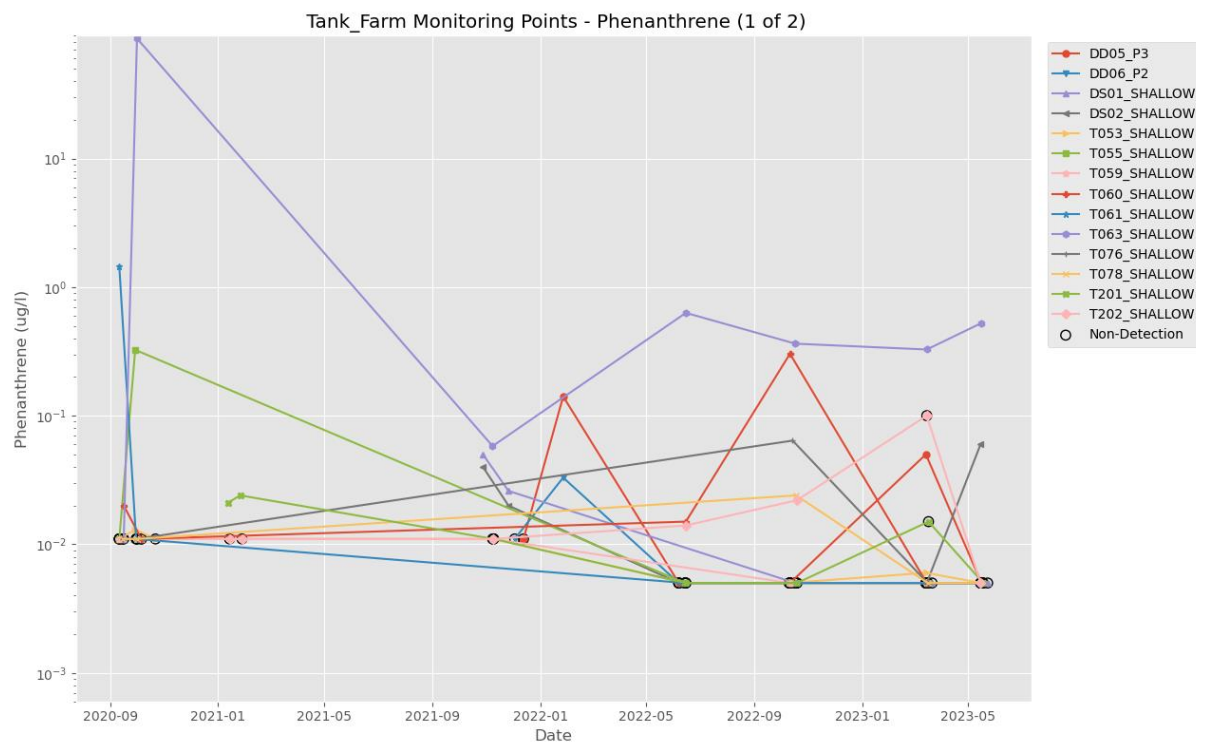
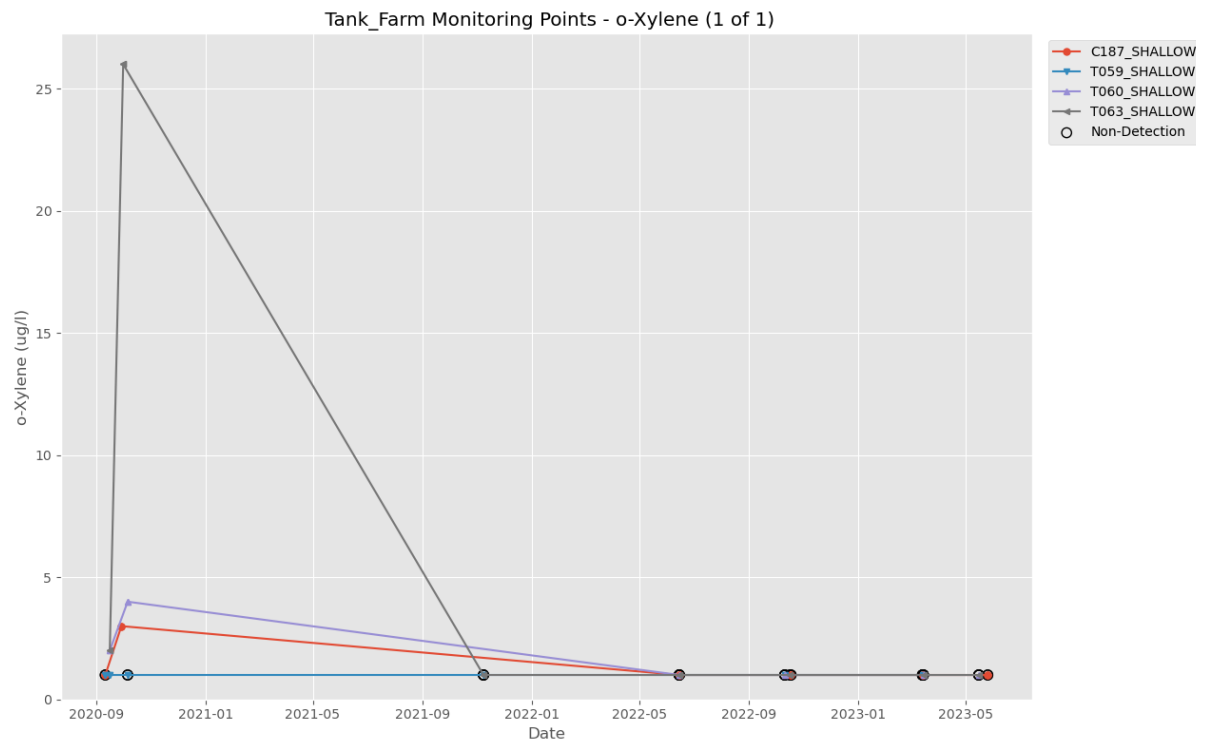


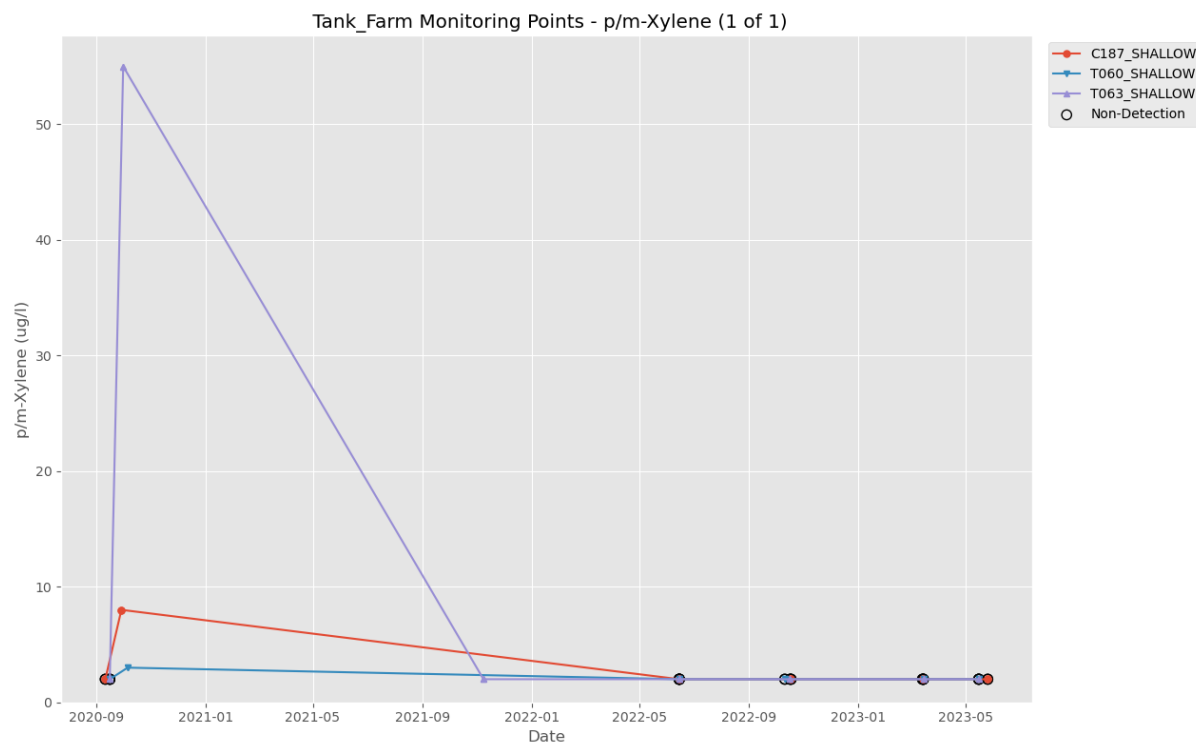
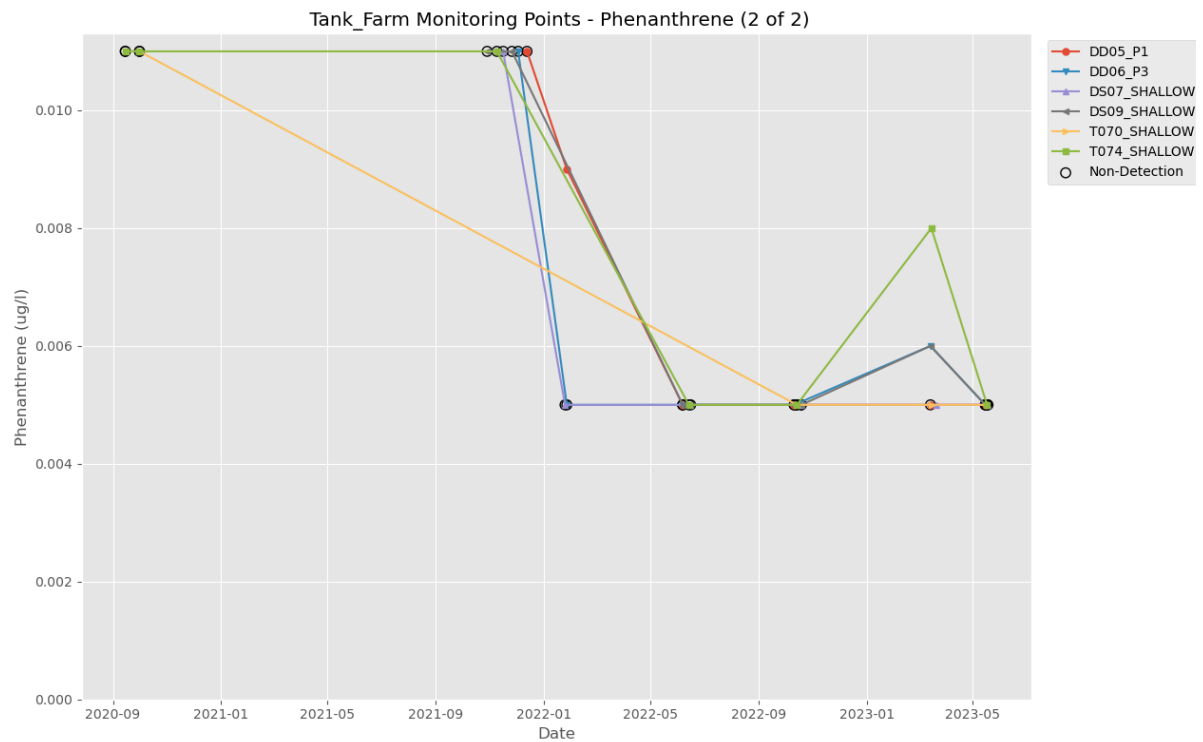


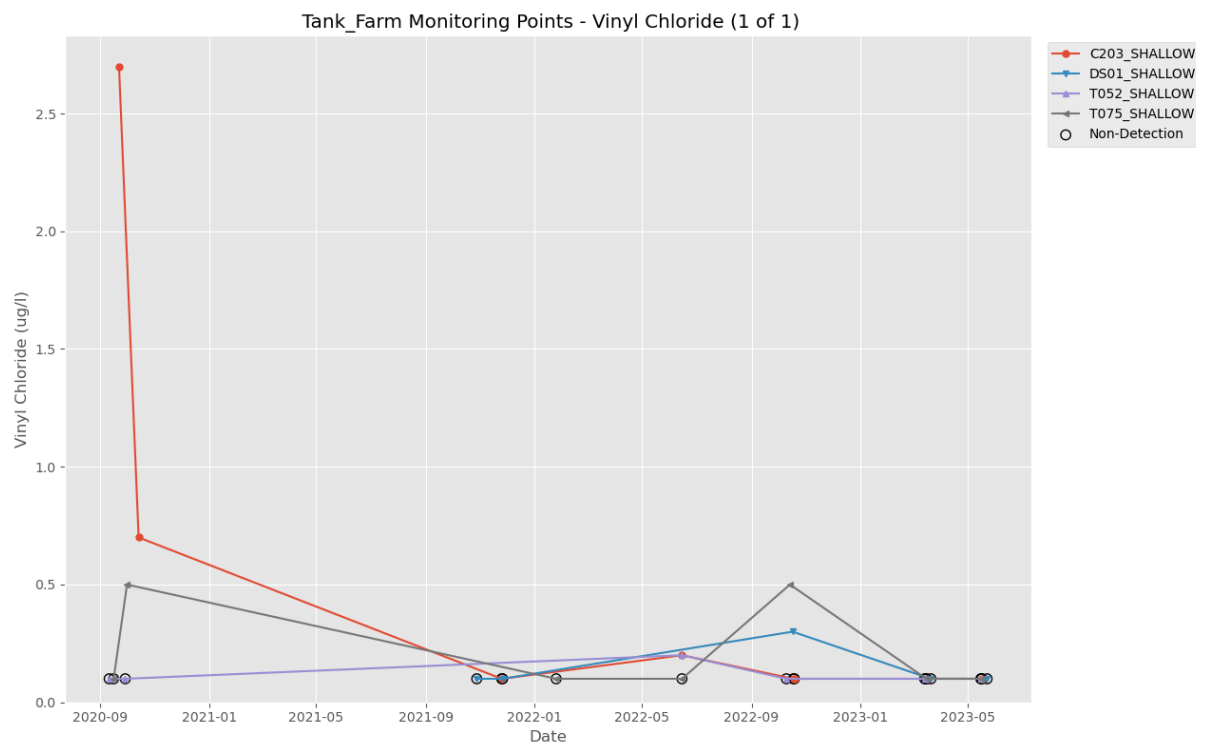
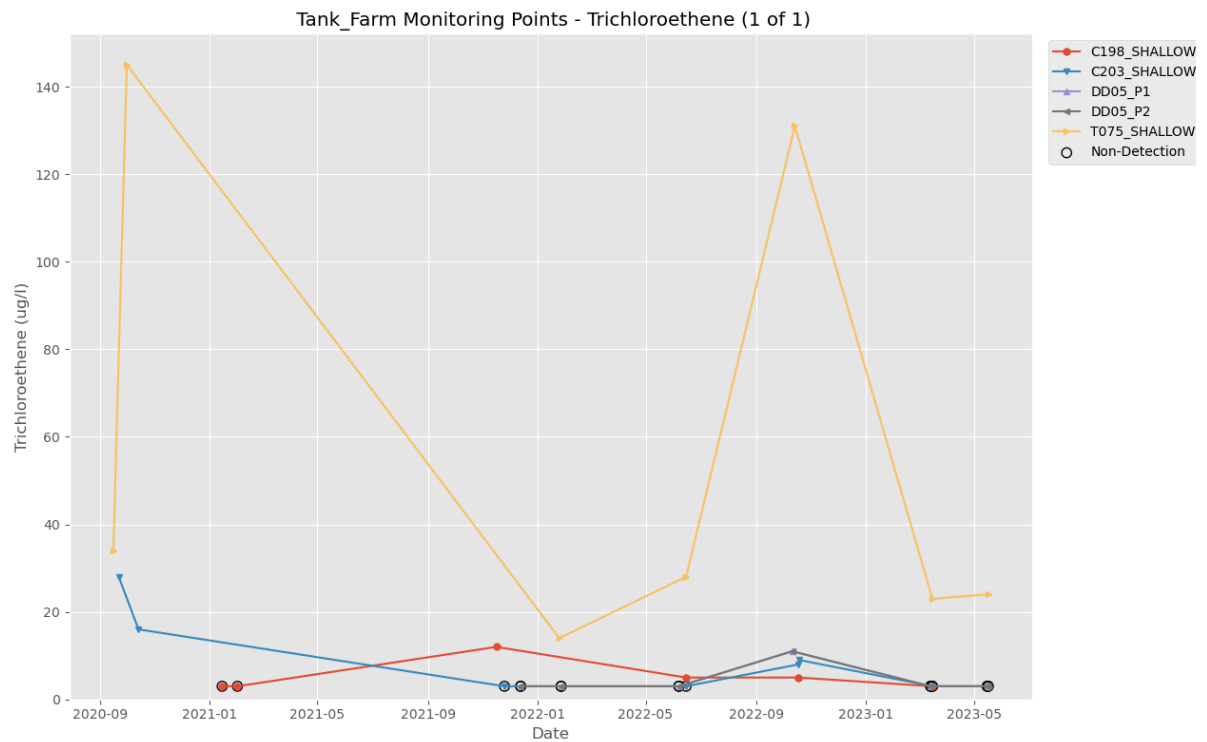




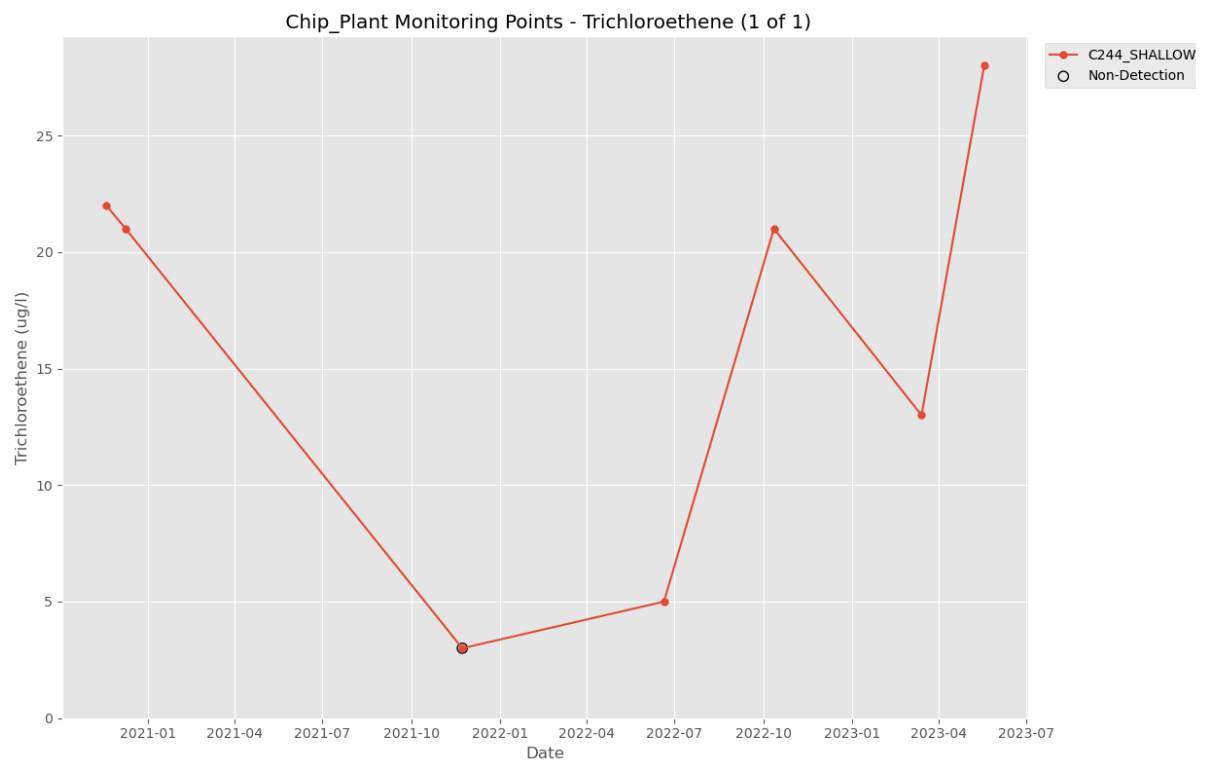
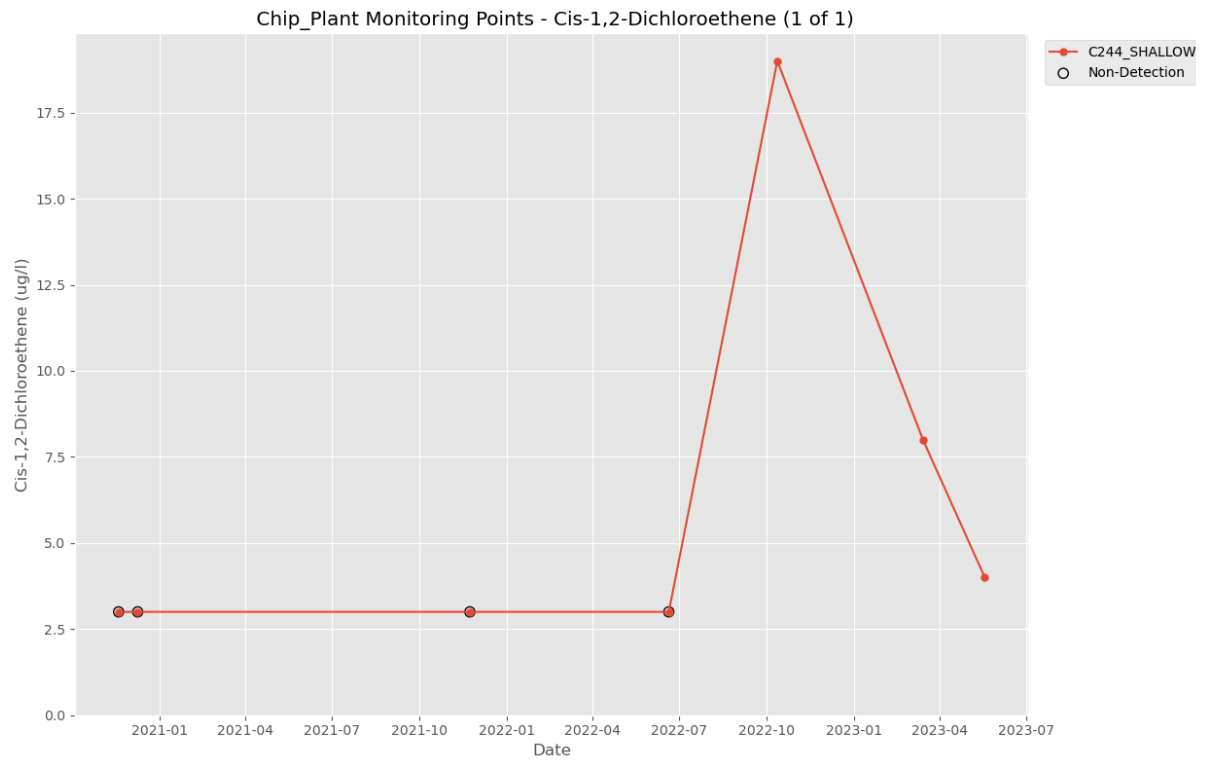


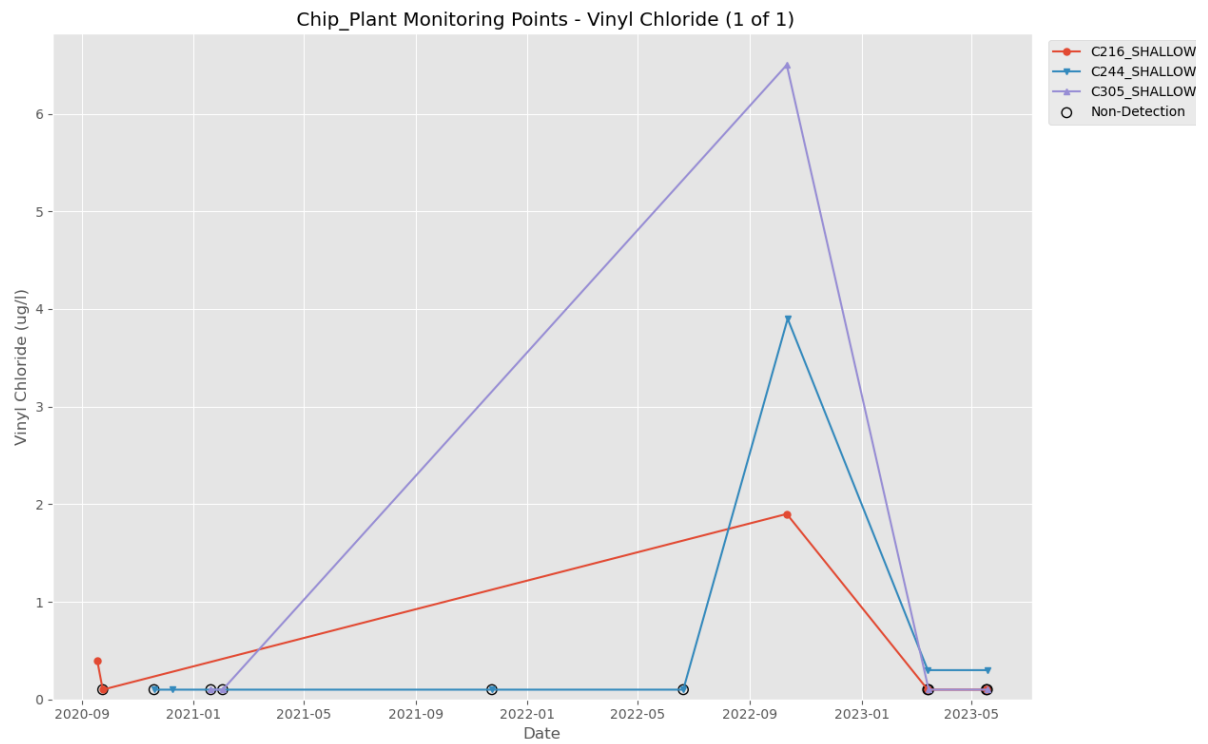






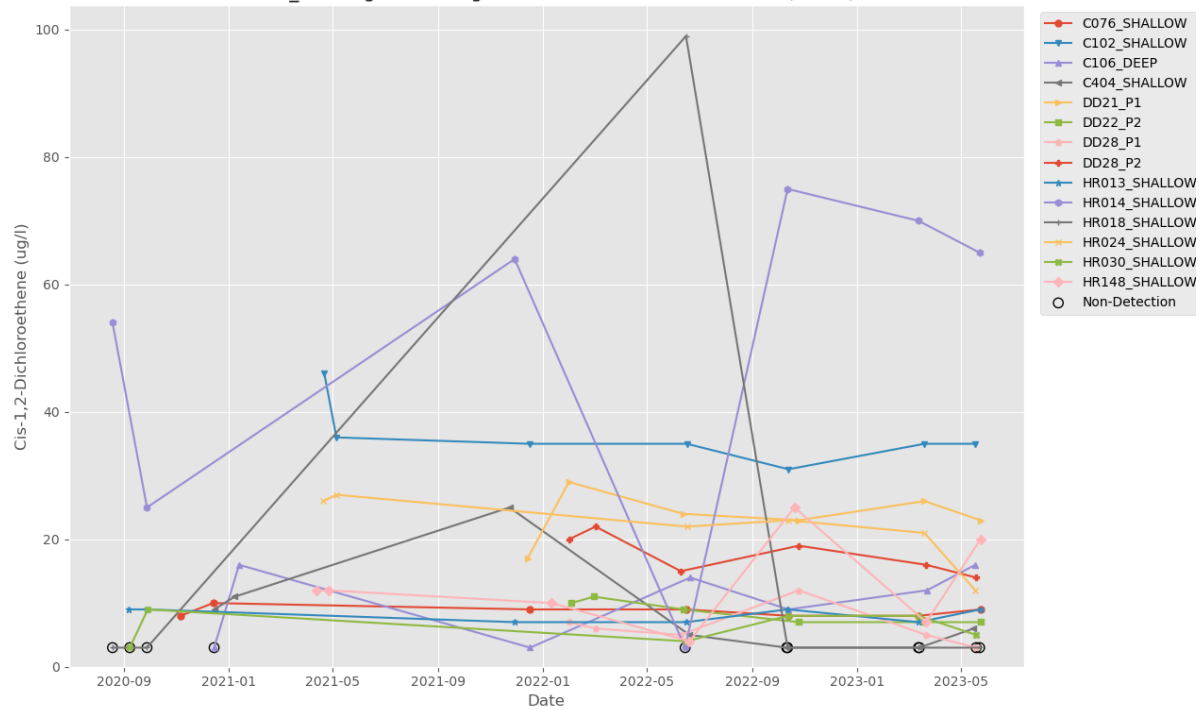
WASTE/OIL STORE AND CHIP PLANT AREA



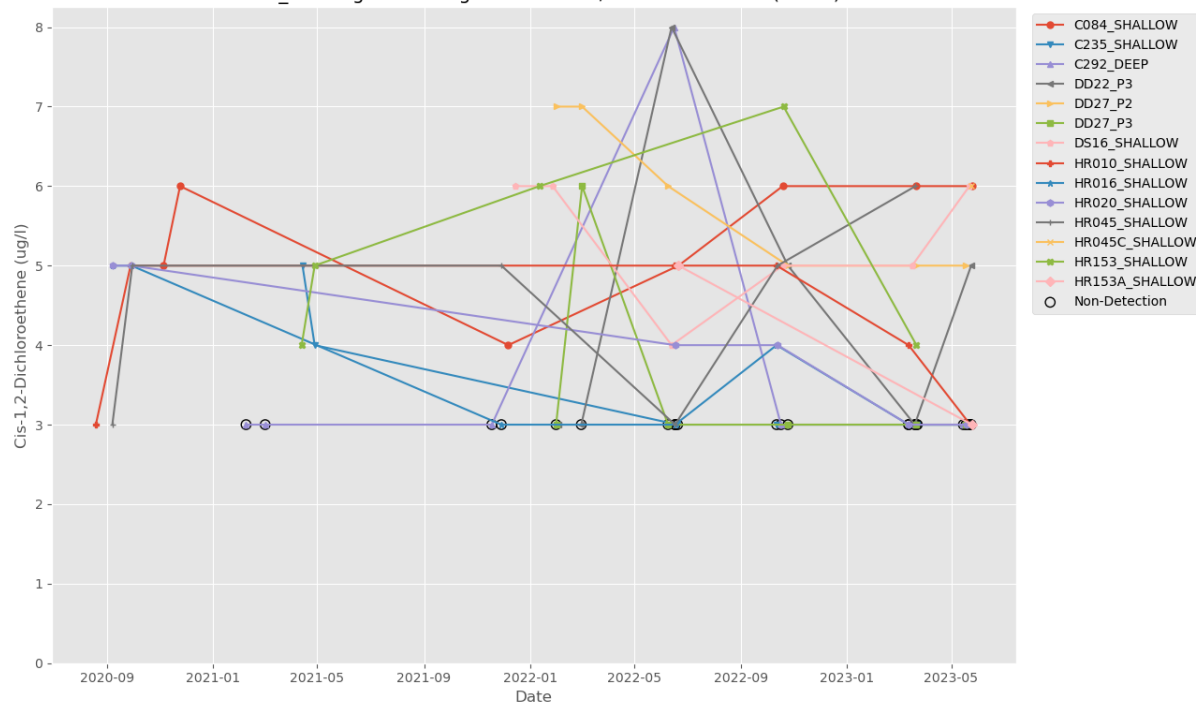


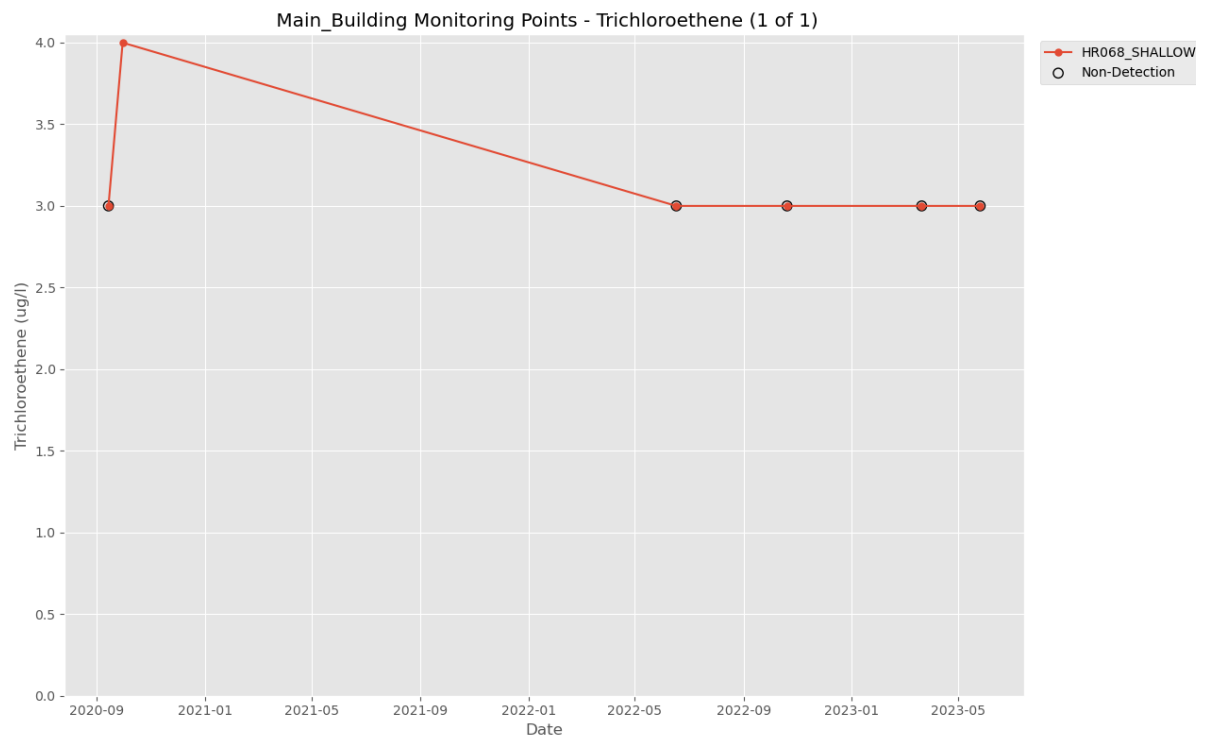
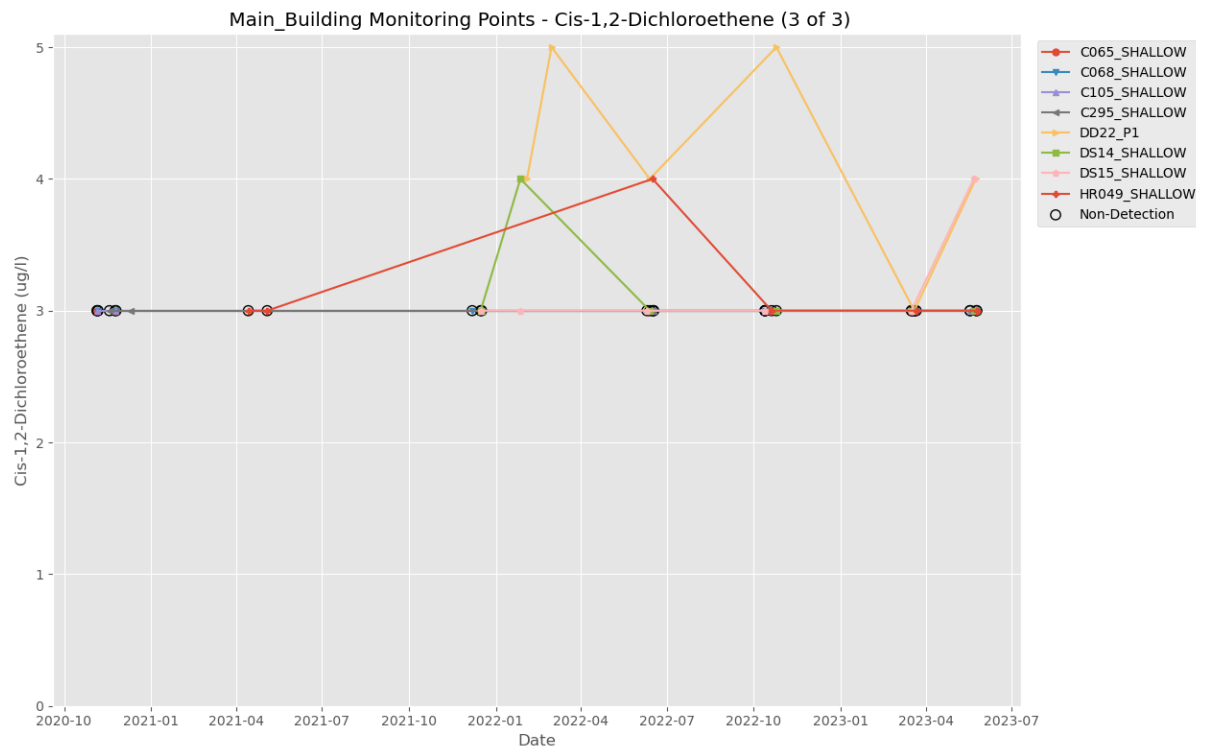
MAIN FACTORY BUILDING

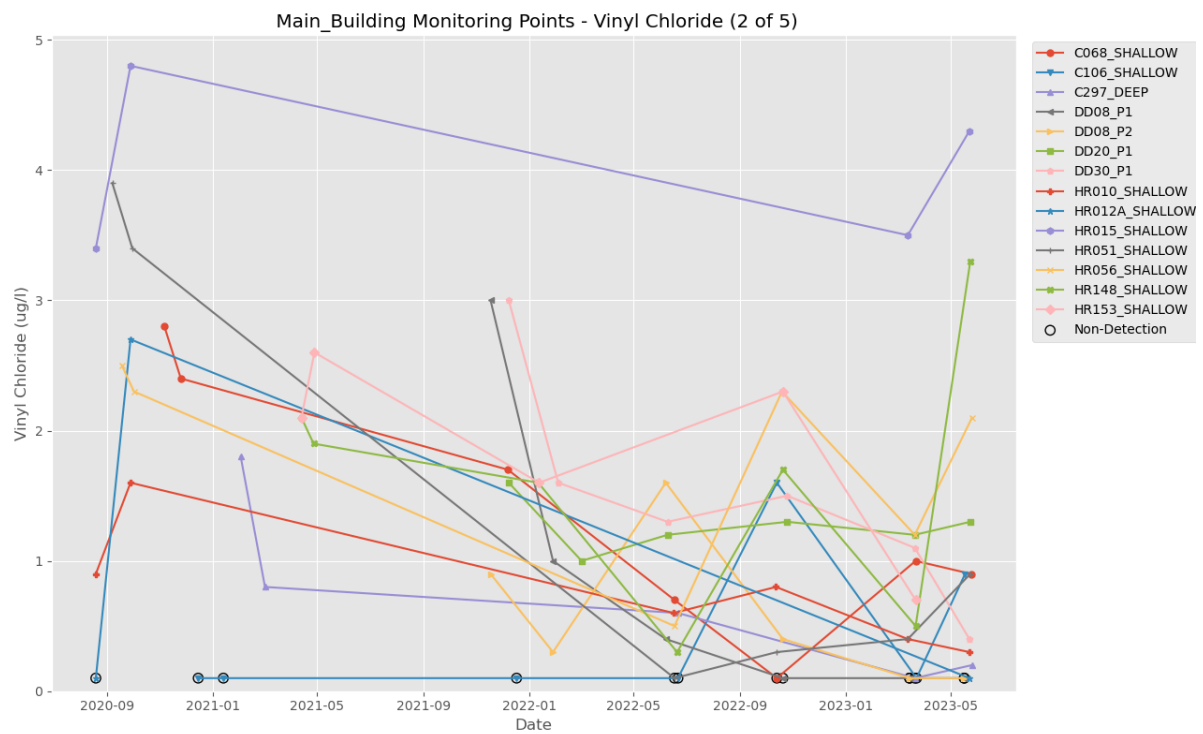
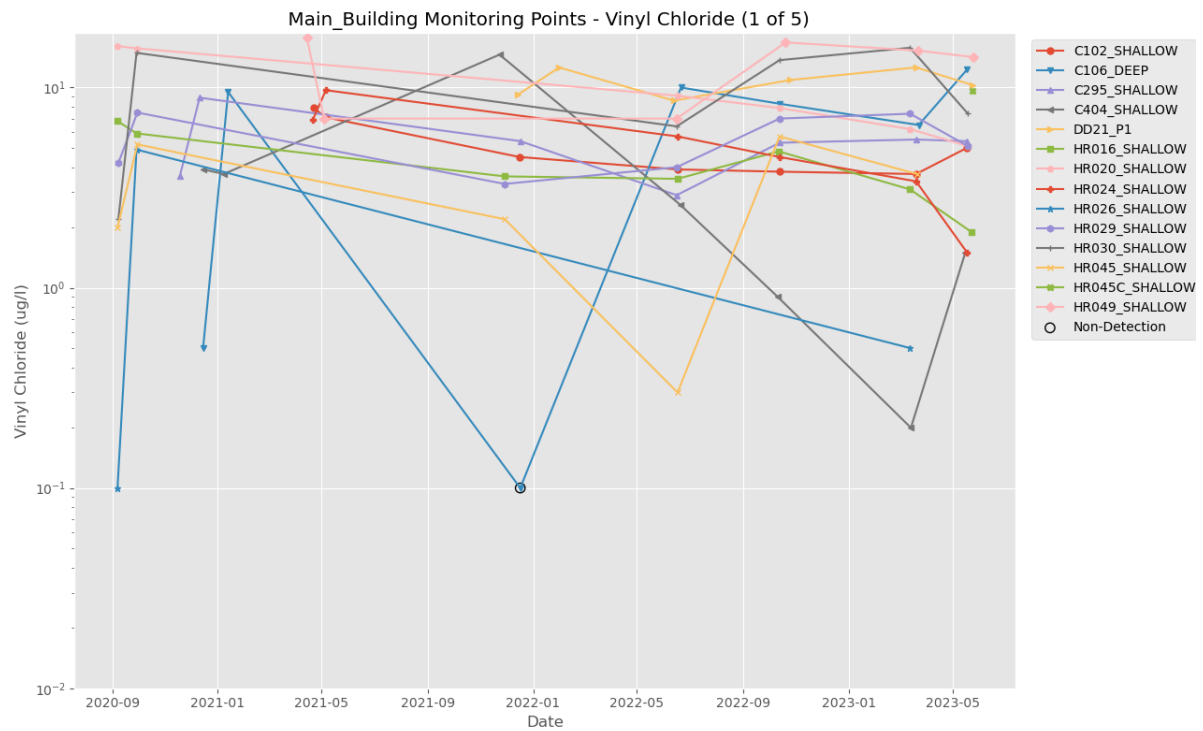
Main_Building Monitoring Points - Cis-1,2-Dichloroethene (1 of 3)

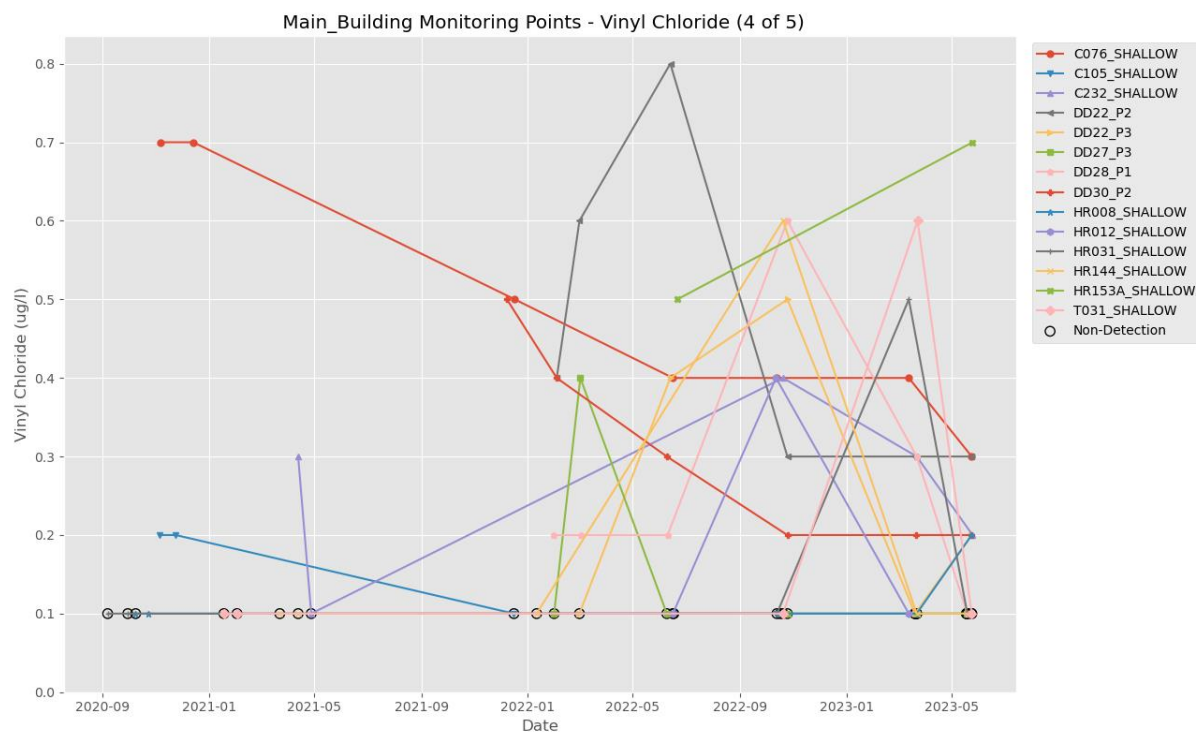
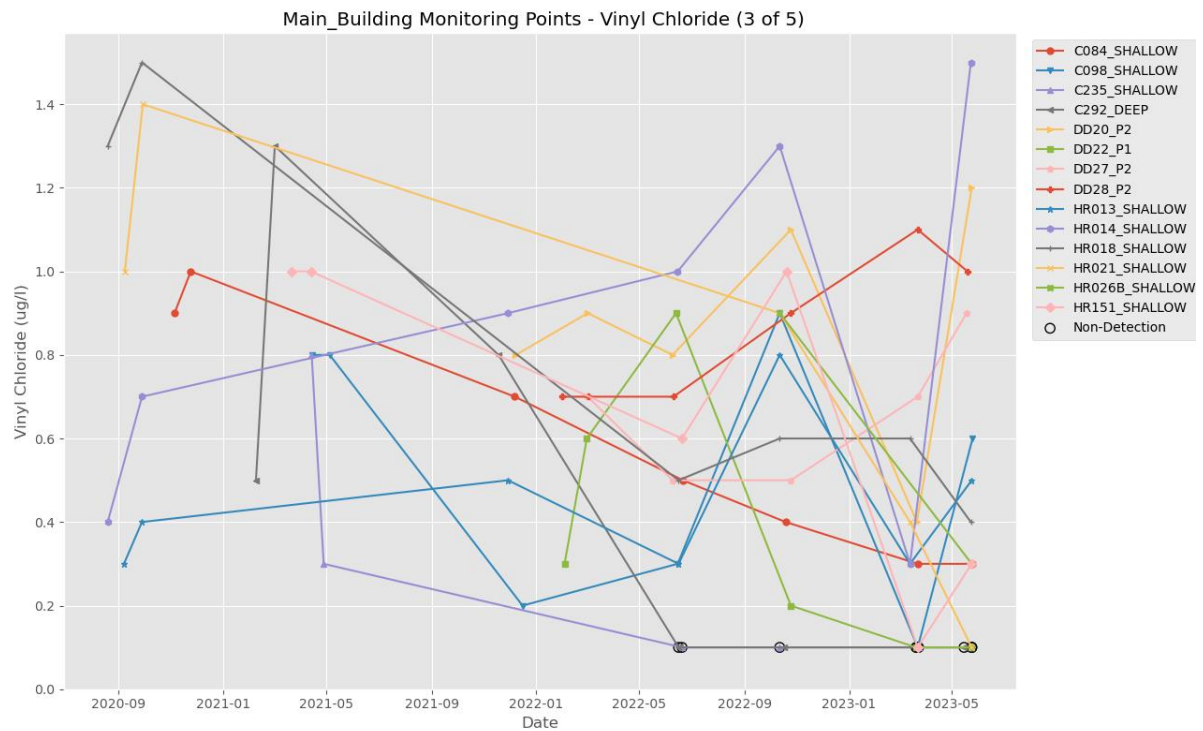


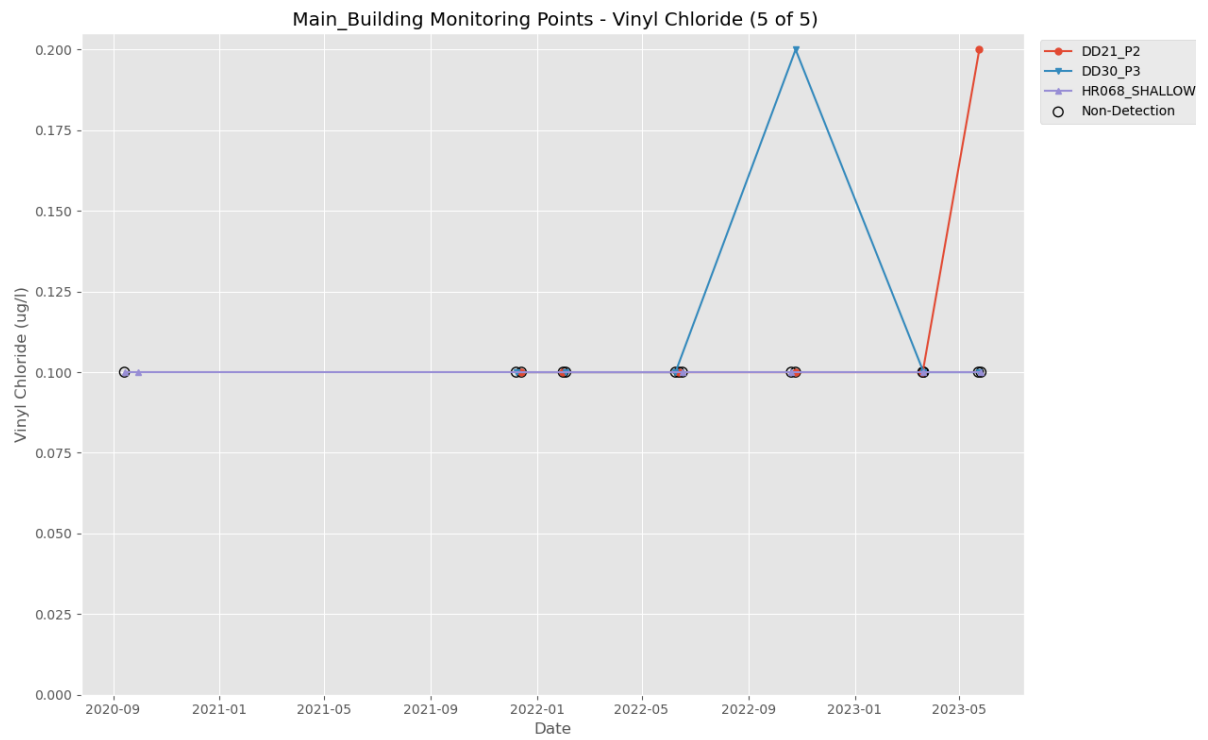
Main_Building Monitoring Points - Cis-1,2-Dichloroethene (2 of 3)





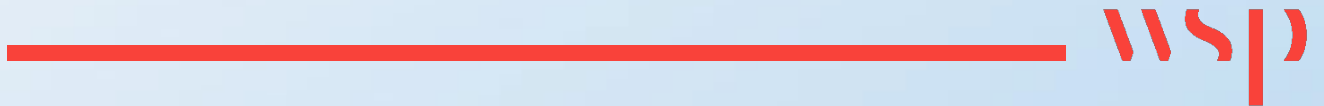






Appendix B

GROUNDWATER CONCENTRATION CONTOUR PLOTS

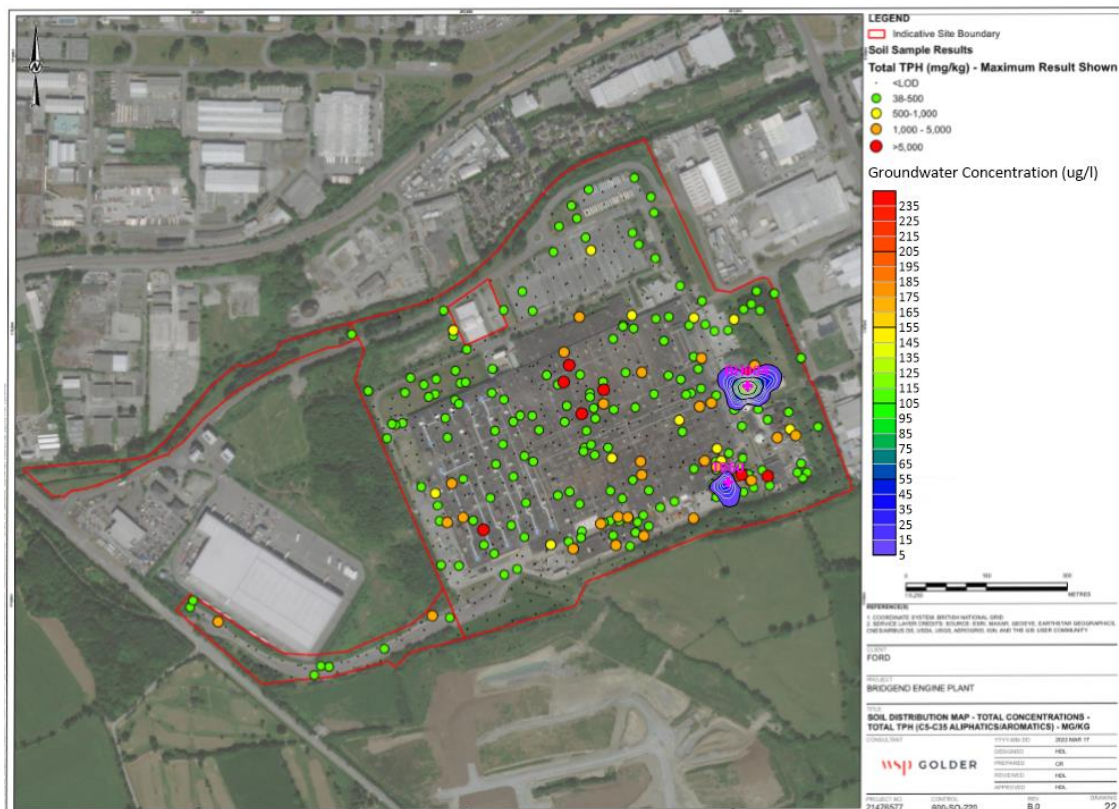


APPENDIX B – SELECTED GROUNDWATER QUALITY CONTOUR PLOTS

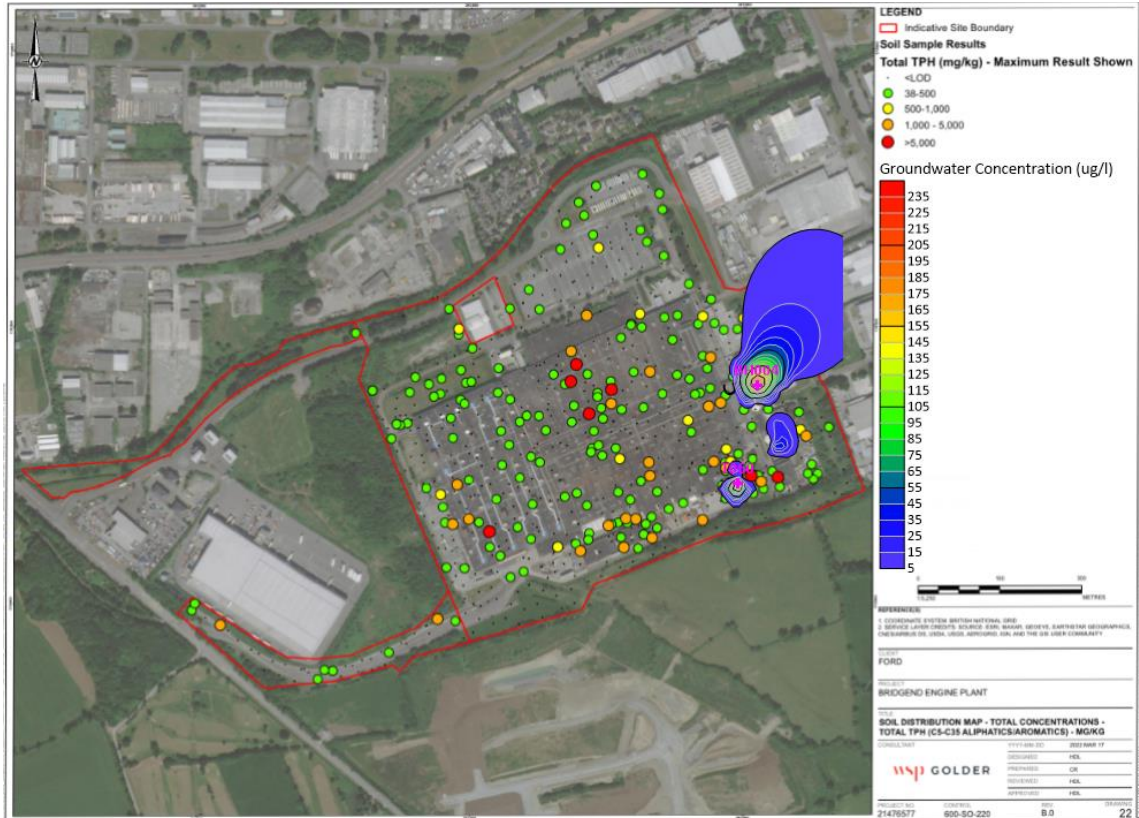
NOTE: The contouring shown has been used to indicate the location of the highest concentrations and where clusters of high concentrations occur, only. It is not intended as a visual representation of likely contaminant plumes. No attempt has been made to correct the basic contour interpolation method to account for known groundwater flow direction, anisotropy in the geology or how concentration ranges over multiple orders of magnitude are interpreted. Where there is limited data, particularly near the edge of the dataset and the visual effect of interpolation is potentially significant, the images presented have not been cropped or edited.

Contour plots are overlain on the site investigation soil distribution plots (where available for the substance) that were included in WSP-Golder, 2022. Locations where the WQS has been exceeded on any date in the last four rounds are identified with a pink cross.

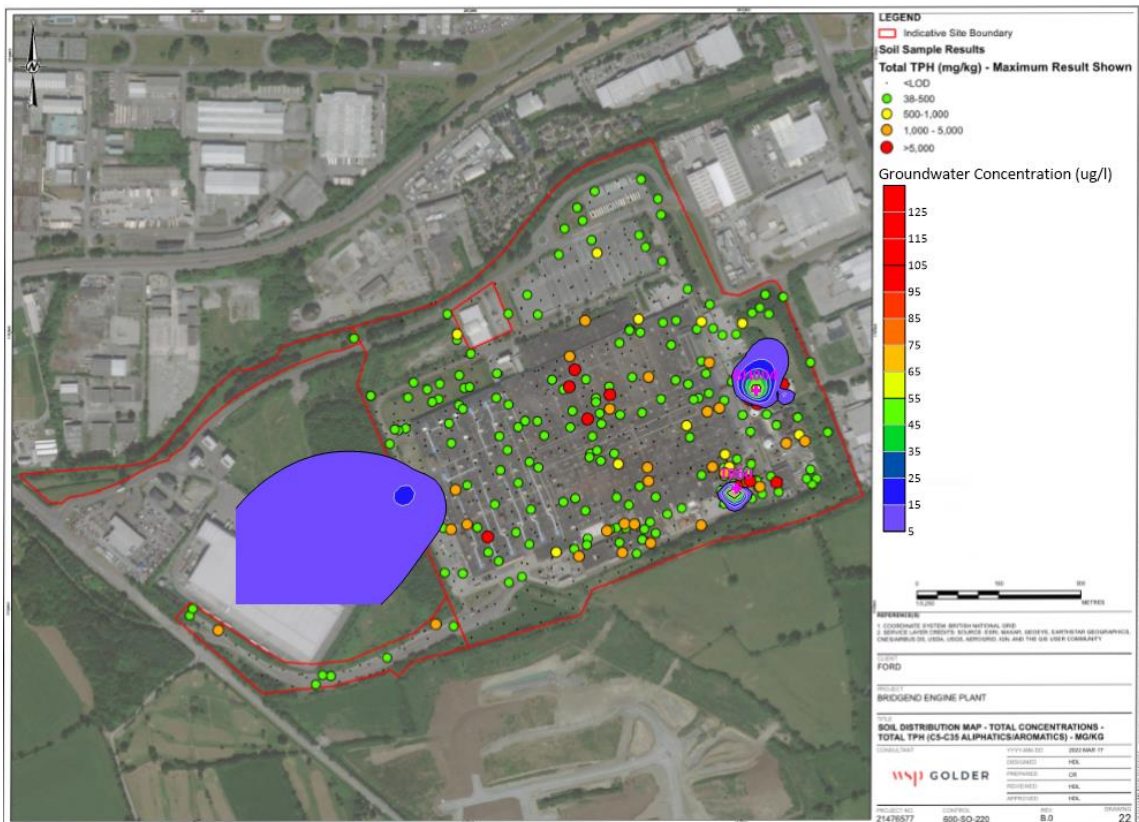
>EC10-EC12 aromatics – June 2022



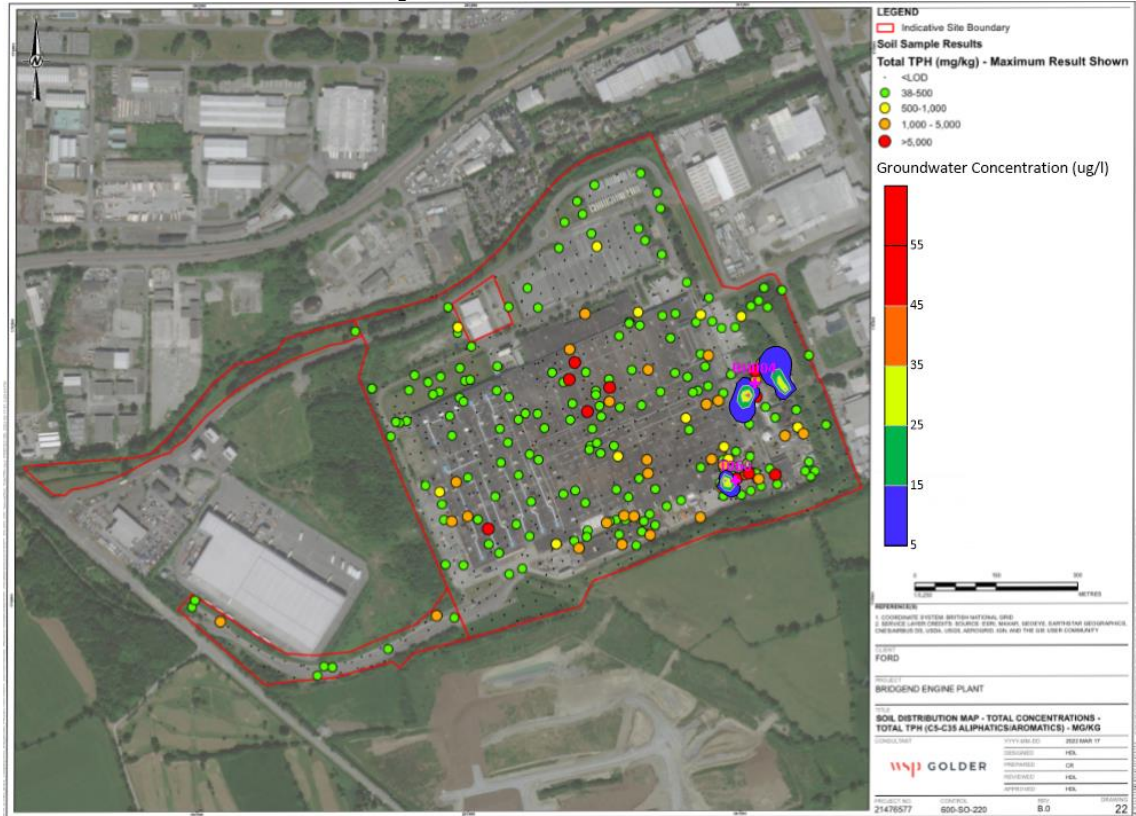
>EC10-EC12 aromatics – October 2022



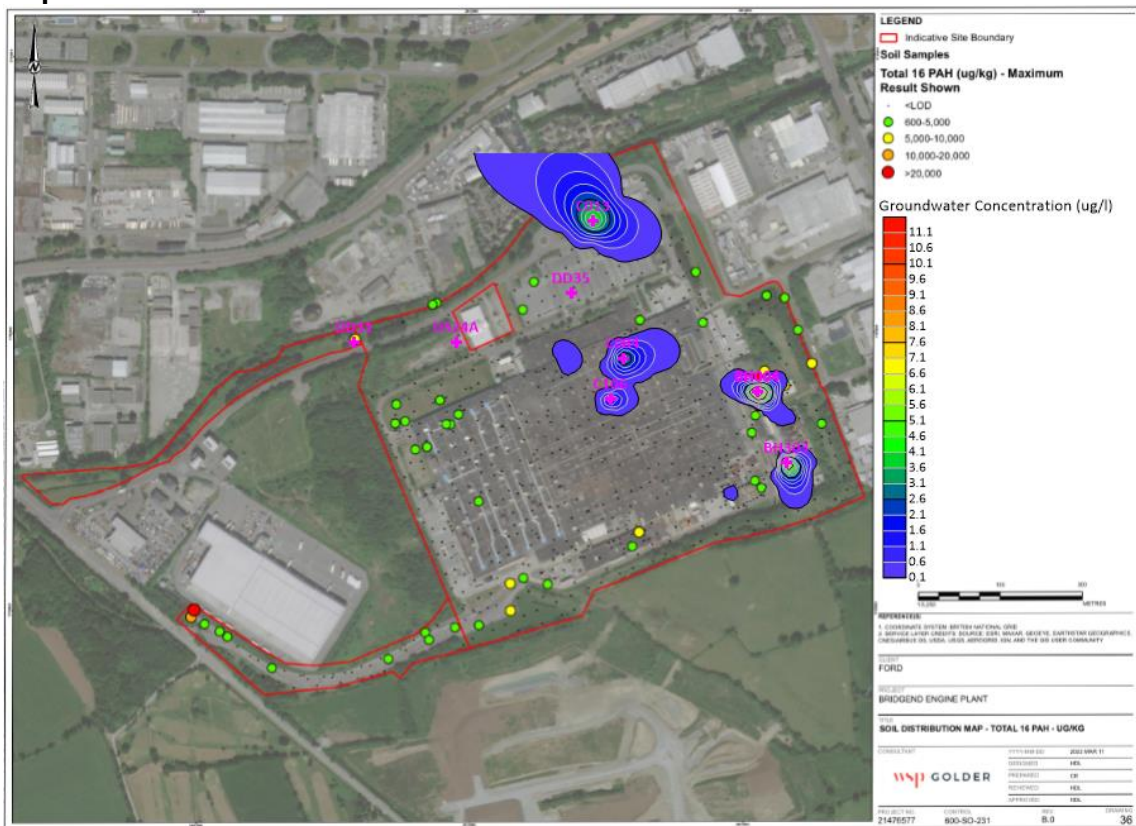
>EC10-EC12 aromatics – March 2023



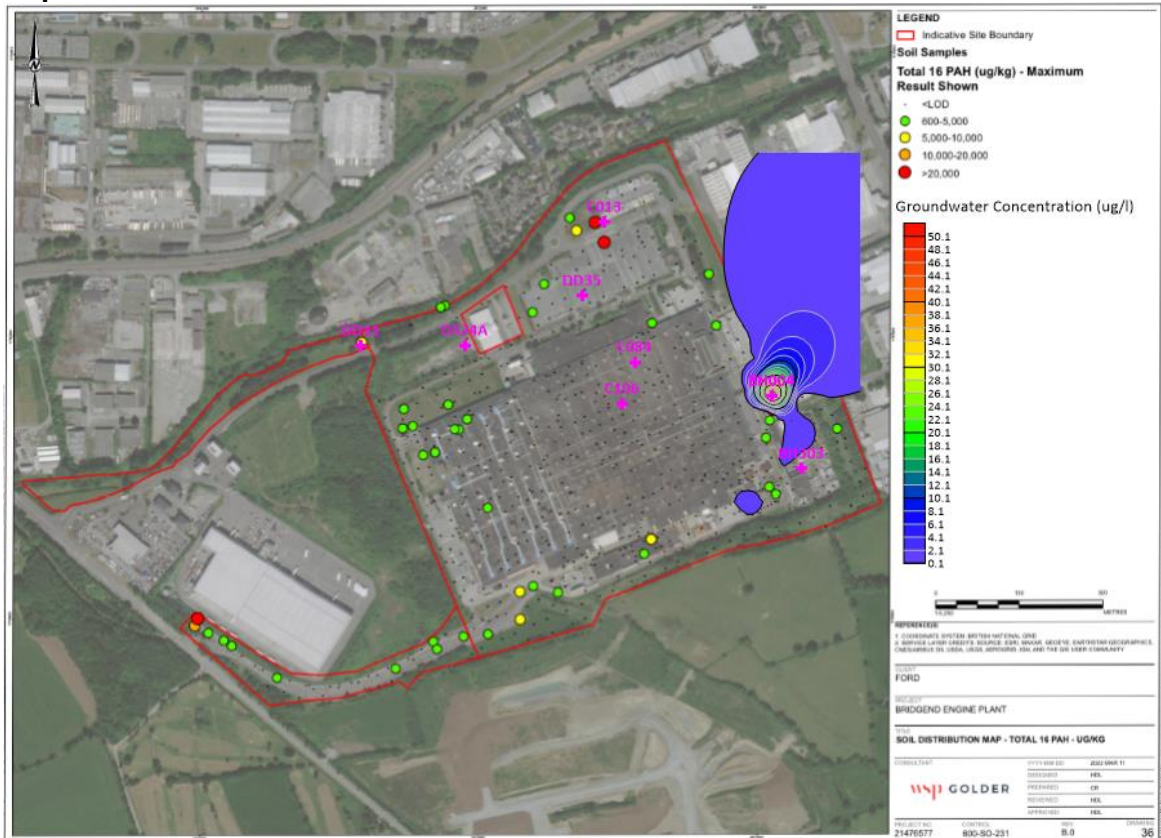
>EC10-EC12 aromatics – May 2023



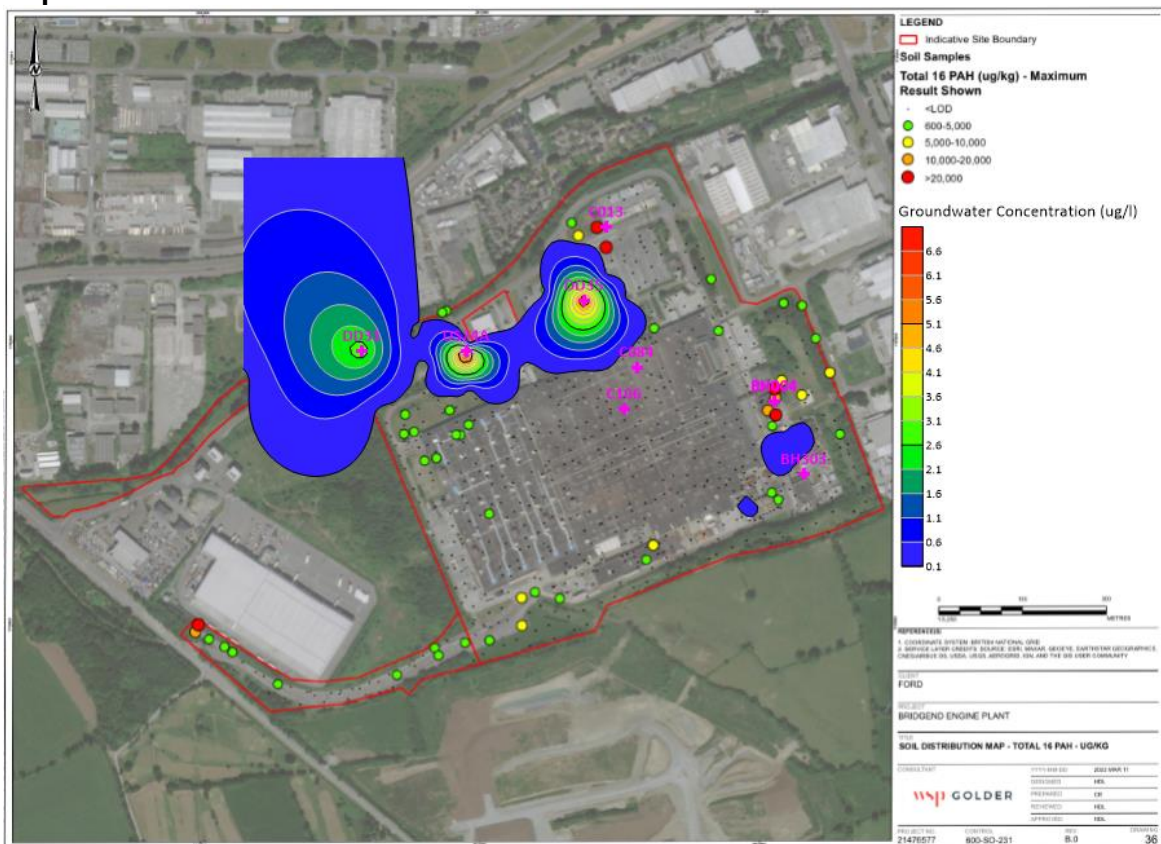
Naphthalene – June 2022



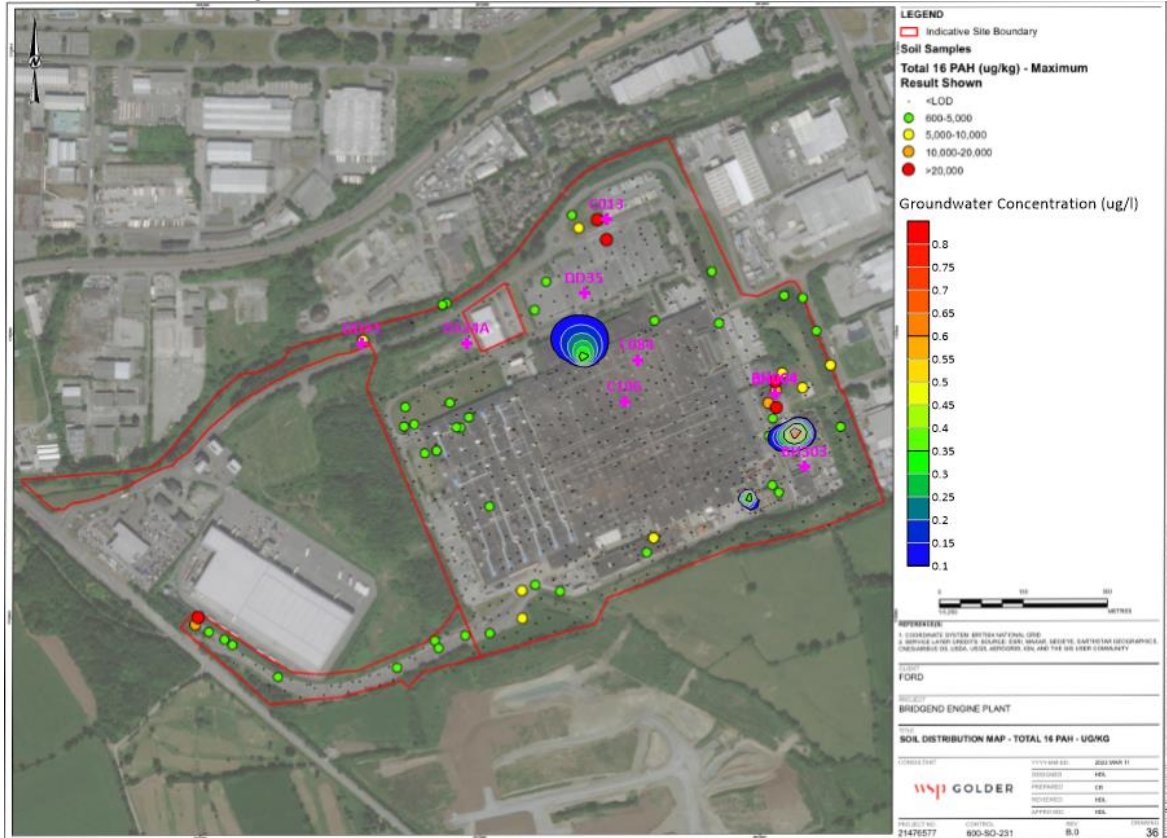
Naphthalene – October 2022



Naphthalene – March 2023



Naphthalene – May 2023

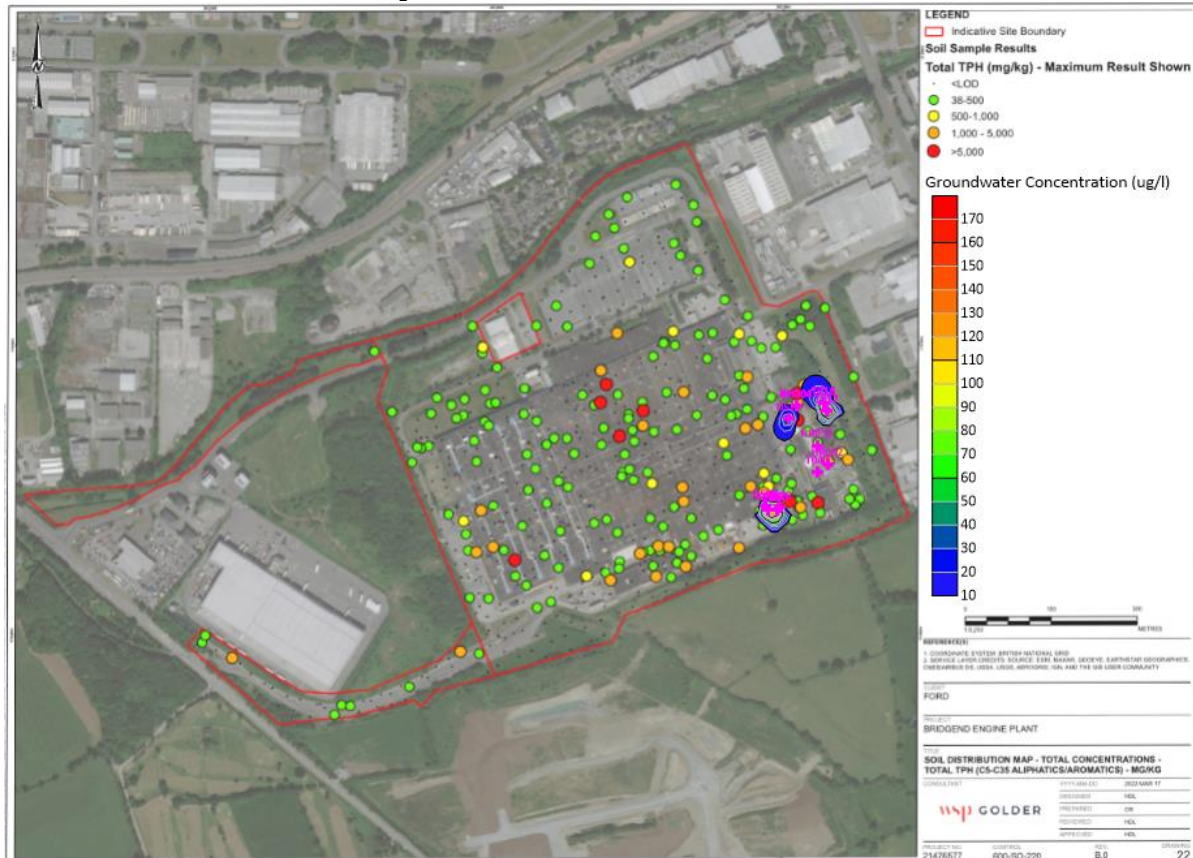


>EC12-EC16 aromatics – June 2022

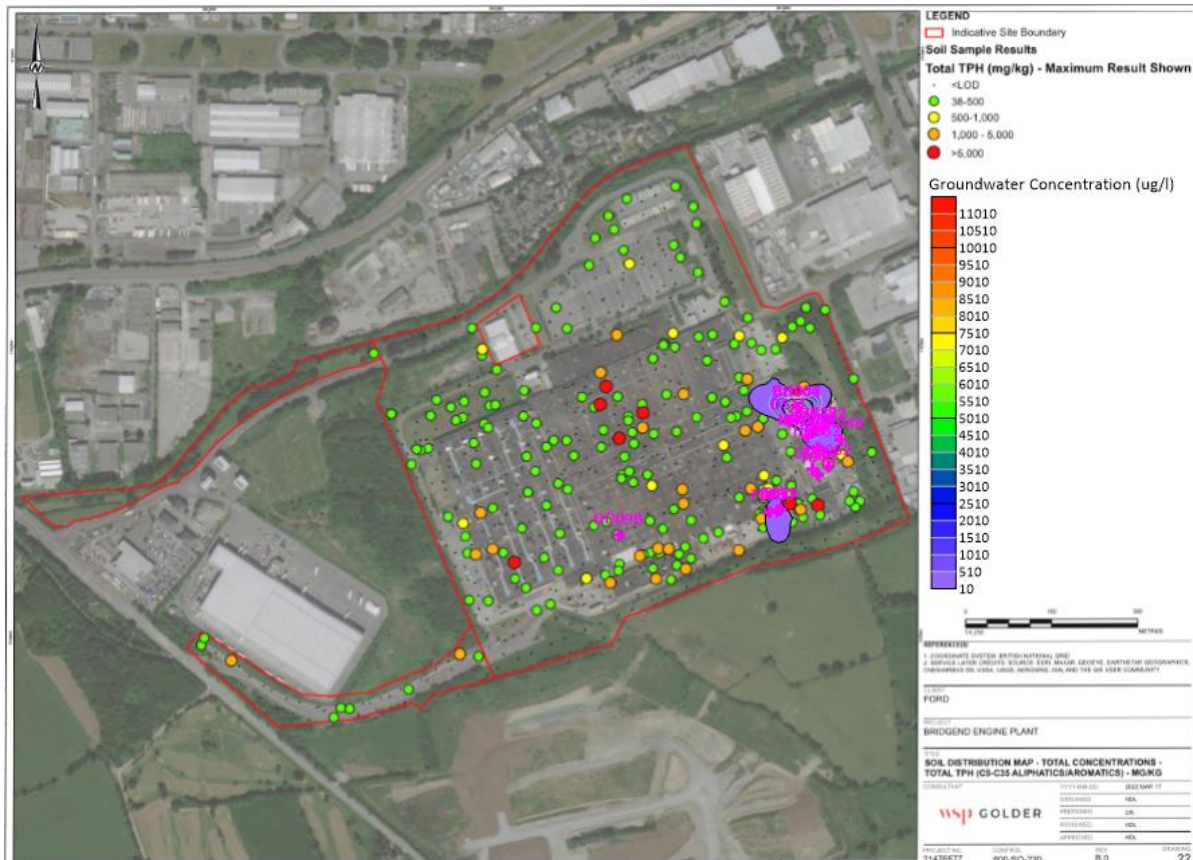


[illegible]

>EC12-EC16 aromatics – May 2023



>EC16-EC21 aromatics – June 2022



LEGEND

Indicative Site Boundary

Soil Sample Results

Total TPH (mg/kg) - Maximum Result Shown

- <LOD
- 38-500
- 500-1,000
- 1,000 - 5,000
- >5,000

Groundwater Concentration (ug/l)

1810
1710
1610
1510
1410
1310
1210
1110
1010
910
810
710
610
510
410
310
210
110
10

0 100 200 METRES

NOTES:

1. CONDUCTED BY WSP INTERNATIONAL LTD.
2. SERVICE LAYER (UNITS) SCALE: 1:10,000. SERVICE LAYER (UNITS) SCALE: 1:10,000. SERVICE LAYER (UNITS) SCALE: 1:10,000.
3. CONDUCTED BY WSP INTERNATIONAL LTD. AND THE WSP TEAM

PROJECT:

FORD

LOCATION:

BRIDGEND ENGINE PLANT

DATE:

2014

SOIL DISTRIBUTION MAP - TOTAL CONCENTRATIONS - TOTAL TPH (CS-C25 ALIPHATICS/AROMATICS) - MG/KG

CONDUCTED BY:

WSP GOLDER

APPROVED BY:

WSP GOLDER

PROJECT NO:

21476577

CLIENT:

600-SO-220

SCALE:

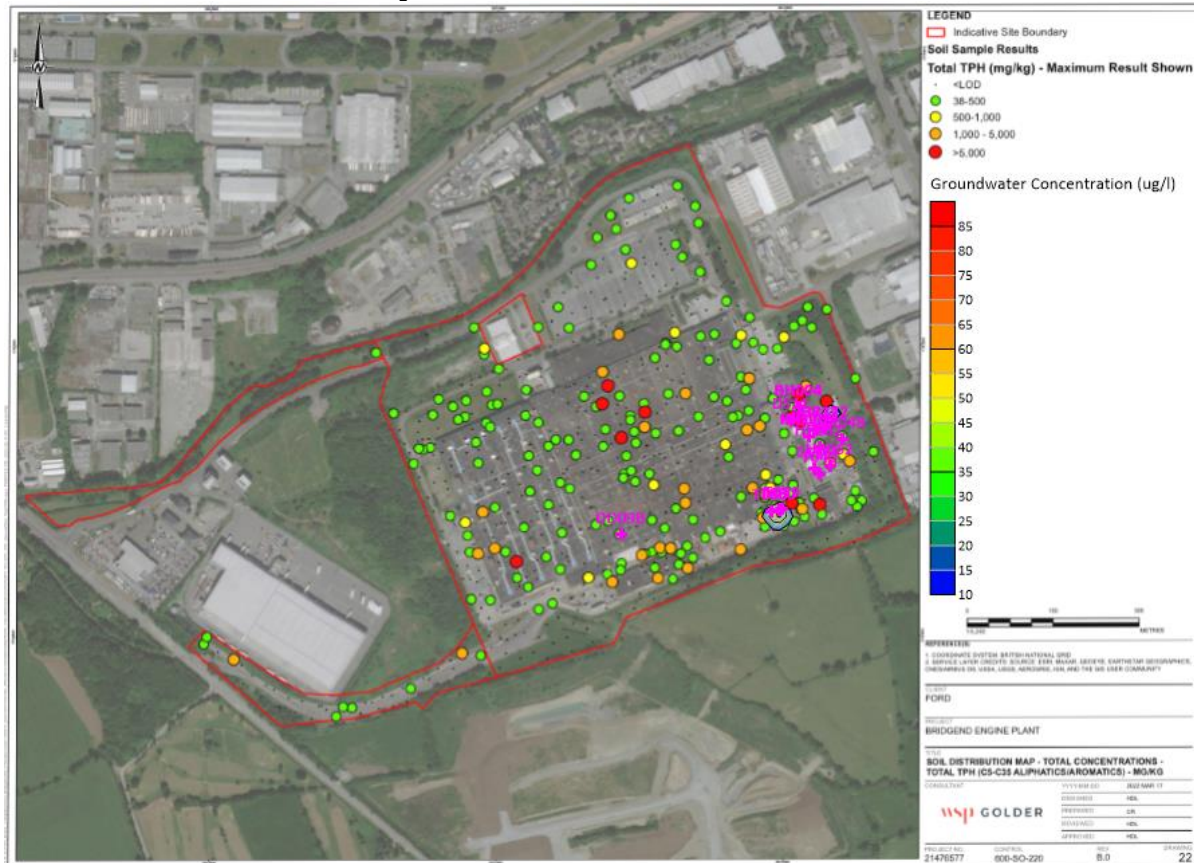
1:10,000

DATE:

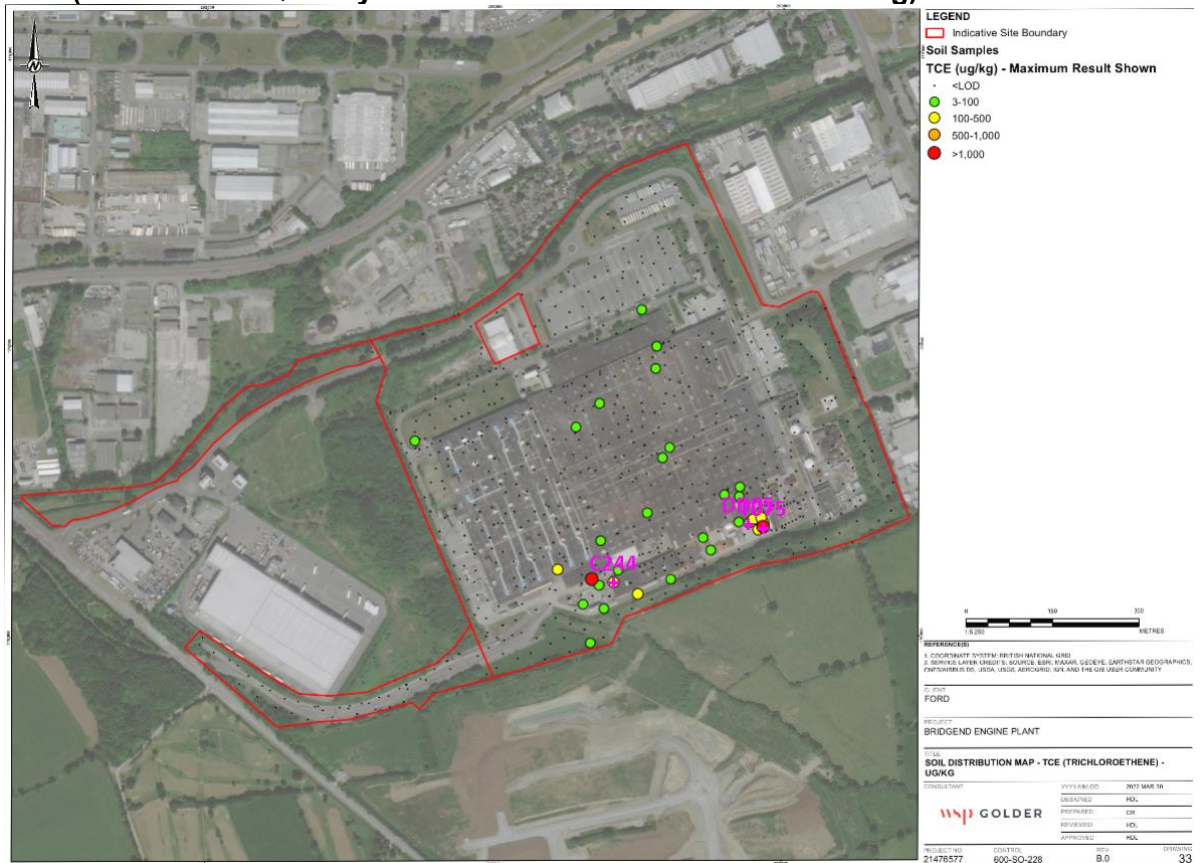
2014

[illegible]

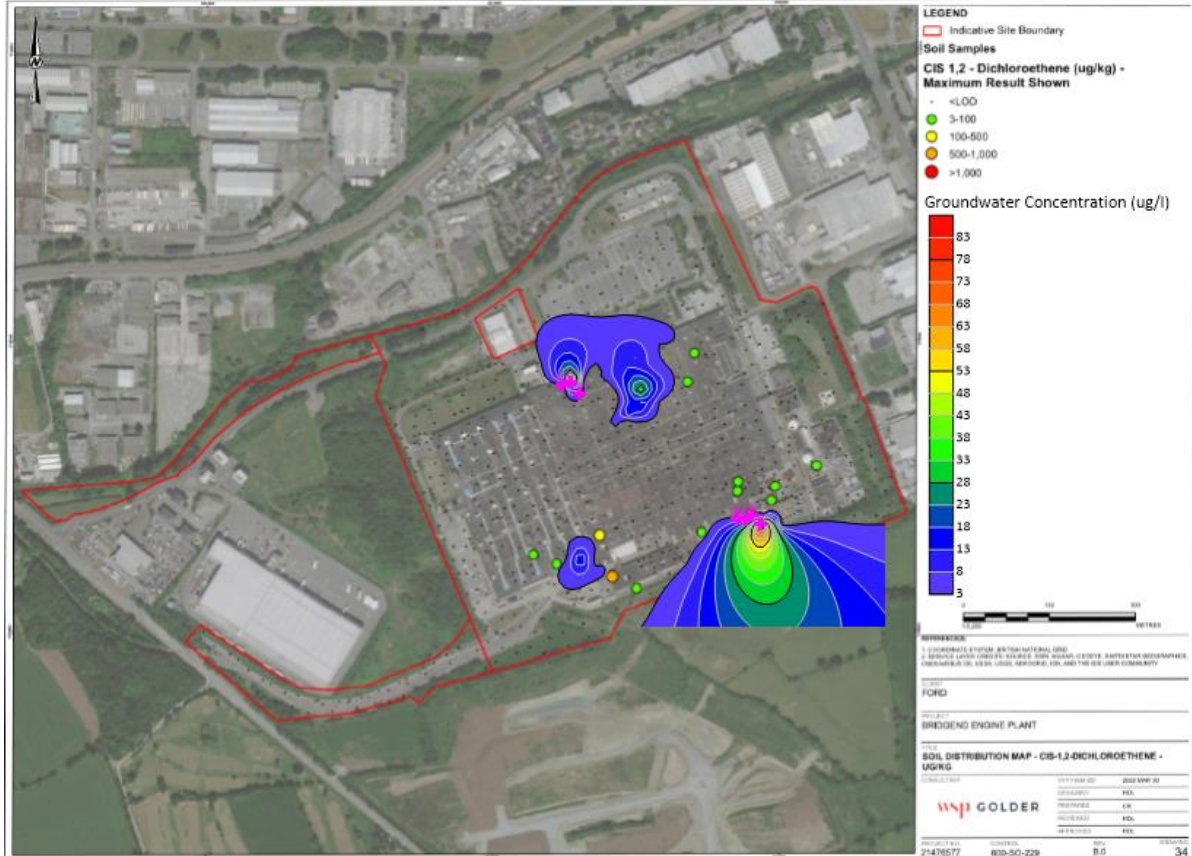
>EC16-EC21 aromatics – May 2023



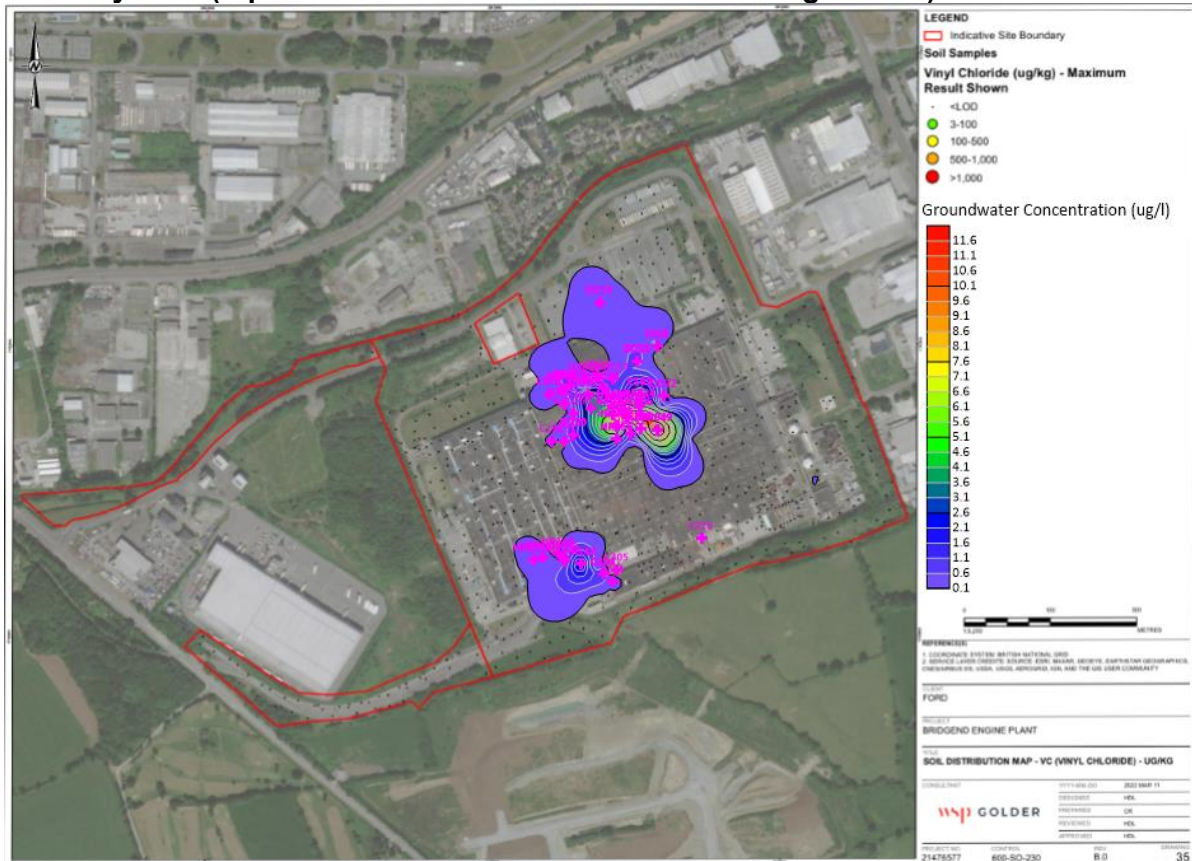
TCE (locations >WQS only – insufficient locations for contouring)



Cis-1,2-DCE – May 2023 (representative of all four recent monitoring rounds)

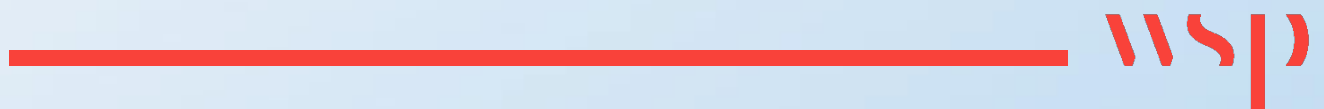


VC - May 2023 (representative of all four recent monitoring rounds)



Appendix C

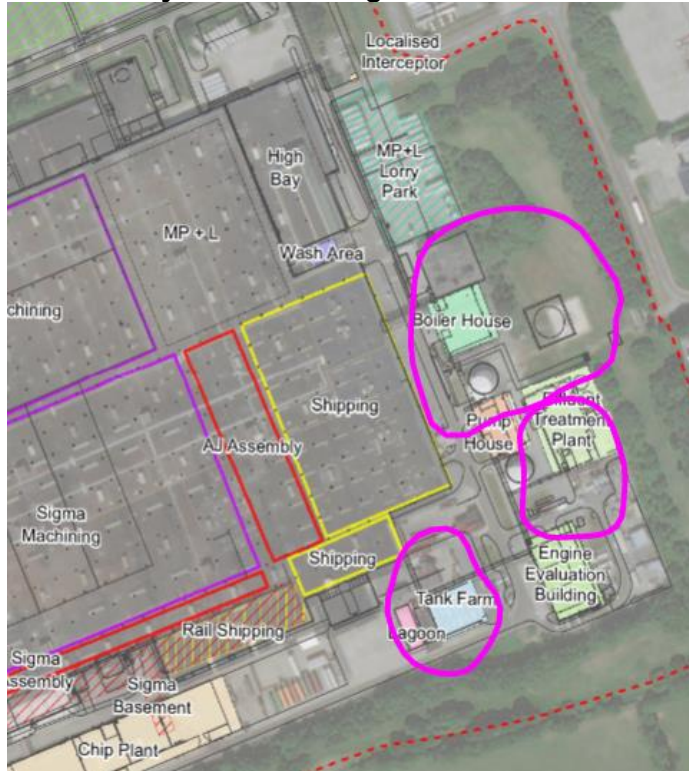
MODEL SOURCE AREAS



APPENDIX C – SOURCE AREAS

Groundwater sources are indicated by the bold pink outline. Soil sources are indicated by the bold yellow outline.

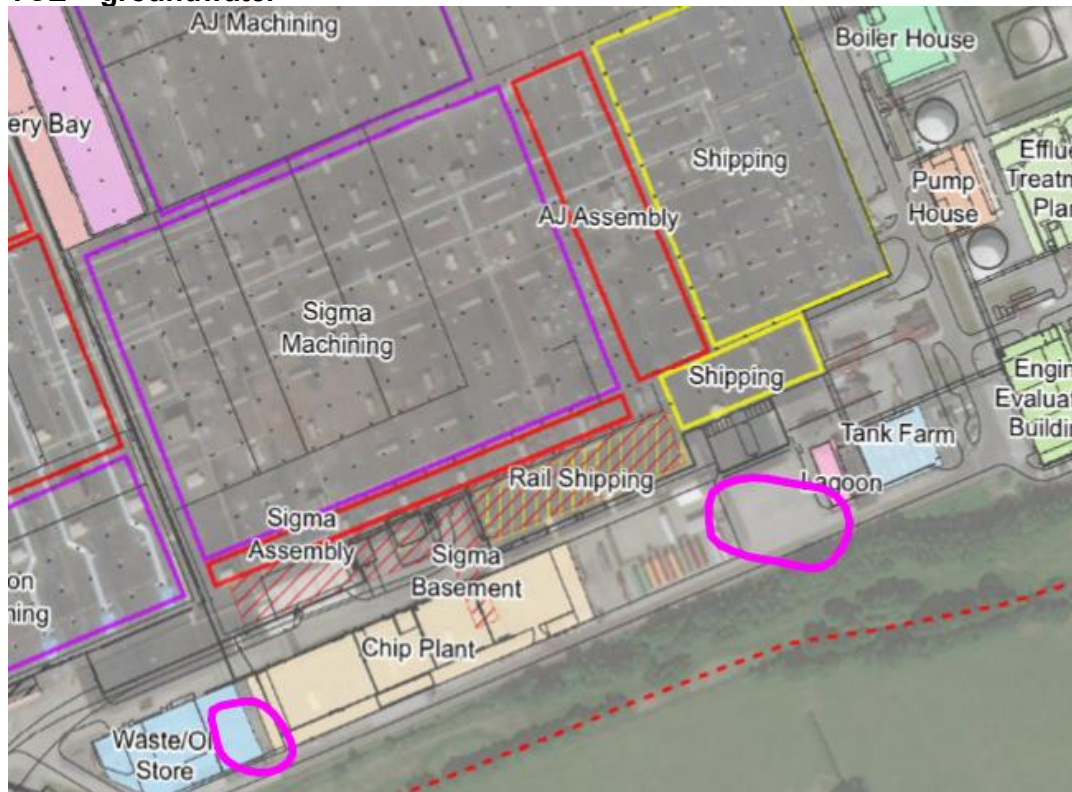
Aromatic hydrocarbons - groundwater



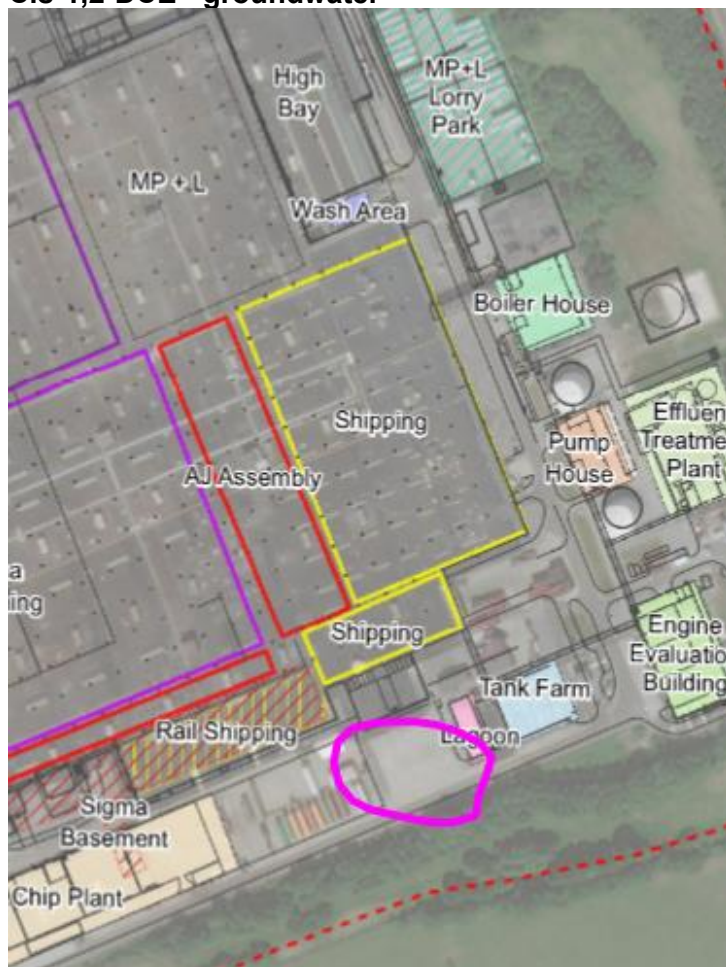
Naphthalene - groundwater



TCE – groundwater



Cis-1,2-DCE - groundwater



VC – groundwater



Lead - groundwater



Aromatic hydrocarbons - soils



Naphthalene - soils



TCE - soils

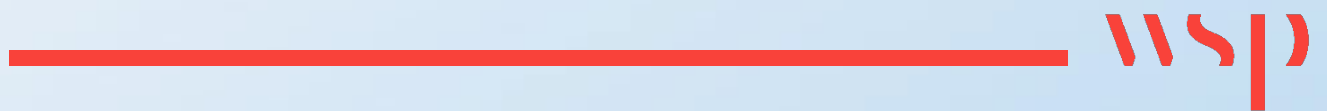


Cis-1,2-DCE - soils



Appendix D

MODEL INPUT PARAMETERS



Input Values	Unit	Input	Justification
Source Zone (soil model only)			
Dry bulk density	g/cm ³	Uniform(1.53, 1.87)	Input based on ConSim suggested input values for substrate types typically present in made ground and alluvium (i.e. clay, silt, sand and gravel). Mid-point of range of suggested inputs determined and a range generated 10% either side of that.
Moisture Content	%	Uniform(10.4,12.8)	Based on a range of values in soil samples across the Site. Unfeasibly high moisture contents removed. Range determined from median value plus and minus 10%.
Particle Density	g/cm ³	Single(2.65)	Typical value for silicate minerals found in alluvial materials.
Fraction organic carbon, foc	%	Uniform(0.21,0.26)	Based on soil quality data from the drilling works. Average of all values from Site, plus and minus 10%.
Source Zone Thickness (TPH)	m	Single(2)	Assumed hydrocarbons could be present between the near surface where spills are most likely to have occurred and groundwater. LNAPL will also smear over the zone where groundwater levels fluctuate. Therefore, hydrocarbons present as a source anywhere between the surface and a typical depth to groundwater at the Site (commonly about 2 m)
Source Zone Thickness (chlorinated solvents)	m	Single(2)	Contamination potentially present between the near surface and groundwater. Typical depth to groundwater at the Site is about 2 m. Conservatively assumed the source is 2 m thick.
Unsaturated Pathway (soil model only)			
Thickness		Uniform(0.001,2)	Contamination potentially present between the near surface and groundwater. Typical depth to groundwater at the Site is about 2 m. If contamination is at a depth close to groundwater there will be little or no unsaturated zone. If contamination is near the surface there could be up to 2 m unsaturated zone.
Water filled porosity	Fraction	Uniform(0.159,0.239)	Calculated using model ranges for moisture content, dry bulk density and a particle density of 2.65.
Unsaturated conductivity	m/s	Uniform(0.00008,0.0005)	See aquifer input.
Dry bulk density	g/cm ³	Uniform(1.53, 1.87)	Input based on ConSim suggested input values for substrate types typically present in made ground and alluvium (i.e clay, silt, sand and gravel). Mid-point of range of suggested inputs determined and a range generated 10% either side of that.
Fraction organic carbon, foc	%	Uniform(0.21,0.26)	Based on soil quality data from the drilling works. Average of all values from Site, plus and minus 10%. The data were collected from non-targeted locations spread across the Site and are not biased to areas with contamination.
Vertical dispersivity	m	Uniform(0.0001,0.2)	Estimate. Set to 10% of unsaturated zone thickness range
Infiltration (soil model only)			
Infiltration (source area full concreted)	mm/yr	Uniform(90,110)	Annual average over last 10 years (2013 to 2022) at Cardiff (~26 km east of Site) is 1,237 mm. Infiltration estimated to be about 100 mm, which is about 10% of rainfall to account for presence of hardstanding with some infiltration possible. Range to account for uncertainty (namely distance to the weather station) determined by applying plus and minus 10%.
Infiltration (source area partially concreted)	mm/yr	Uniform(270,330)	Infiltration estimated to be about 300 mm (about 25% rainfall, see above) to allow for source areas that are only partially covered in concrete and where the rest of the ground is covered in open grassed area. Range to account for uncertainty (namely distance to the weather station) determined by applying plus and minus 10%.
Aquifer			
Mixing Zone Thickness	m	Single(5)	Value selected to give a justifiable aquifer flow the Site. The triangle of land between the Brocastle Brook and the southern Site boundary has an area of approximately 122,500 m ² . Assuming

Input Values	Unit	Input	Justification
			rainfall to this land provides most of the input to shallow superficial aquifer flow beneath the Site, and that between 25% and 50% of the annual average rainfall (1,236.67 mm) recharges the aquifer, recharge to that land ranges between about 37,900 m ³ /yr and 75,800 m ³ /yr. The Site is about 475 m wide perpendicular to the groundwater flow direction. The TCE tank farm lagoon source area that has been used to calibrate aquifer flow is about 60 m wide about 12% of the Site width used). Flow beneath this proportion of the Site should, therefore, equate to between about 4,780 m ³ /yr and 9,570 m ³ /yr. A mixing zone thickness combined with the range of hydraulic conductivity and gradient values (below) give a model aquifer flow beneath the TCE tank farm lagoon source area of between about 5,500 m ³ /yr and 9850 m ³ /yr, which falls in the estimated expected range.
Aquifer geometry – thickness (groundwater model only)	m	Uniform(5,9)	Typical alluvium thickness along the pathway under the main factory building and northern part of the Site where the modelled sources are located. Smaller value limited to the mixing zone thickness.
Hydraulic Conductivity	m/s	Uniform(0.00008,0.0005)	Range of results from slug test from boreholes with well screens in the alluvium 3×10^{-7} to 0.0008. ConSim suggested input parameters for silt range from 1×10^{-9} to 0.00002, for sand range from 2×10^{-7} to 0.006, and for gravel from 0.0003 to 0.03. Most groundwater flow will be preferentially through the higher conductivity pathways. Range selected is towards the upper end of the Site data selected, which also fits towards the upper end of the range for sand. Using this range and an inverse relationship between K and i gives justifiable end member aquifer flows when compared to estimates for the Site.
Hydraulic gradient	-	Uniform(0.002,0.007)	Range selected to give justifiable aquifer flows for the Site. Within the range of values typical of a shallow superficial aquifer. The measured gradient in the alluvium across the whole Site for October 2022 and March 2023 (approximately 0.002 to 0.004) is also within this range. An inverse correlation has been used between K and i.
Longitudinal dispersivity (groundwater model only)	m	Single(5)	Set to 10% of pathway length. Shortest pathway is 50 m, so this has cautiously been adopted.
Longitudinal dispersivity (for soils model assessment of non-hazardous pollutants)	m	Single(46)	Set to 10% of pathway length. Pathway from downgradient edge of source to receptor is about 460 m.
Lateral dispersivity (groundwater model only model)	m	Single(1.5)	Set to 3% of pathway length.
Lateral dispersivity (for soils model assessment of non-hazardous pollutants)	m	Single(13.8)	Set to 3% of pathway length.
Fraction organic carbon (as %)	%	Uniform(0.21,0.26)	Based on soil quality data from the drilling works. Average of all values from Site, plus and minus 10%.
Groundwater flow direction	Degrees	337	Approximate. Based on plots created from groundwater level data.

Input Value	Unit	Contaminant	Input	Justification
Soil source concentration – Tank Farm source area	mg/kg	>EC10-EC12 Aromatics	Single(11.362)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 11,362 ug/kg.
		>EC12-EC16 Aromatics	Single(45.568)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 45,568 ug/kg.
		>EC16-EC21 Aromatics	Single(97.354)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 97,354 ug/kg.
Soil source concentration – Boiler House source area	mg/kg	>EC10-EC12 Aromatics	Single(60.704)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 60,704 ug/kg.
		>EC12-EC16 Aromatics	Single(280.918)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 280,918 ug/kg.
		>EC16-EC21 Aromatics	Single(1101.42)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 1,101,422 ug/kg.
		Naphthalene	Single(7.108)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 7,108 ug/kg.
Soil source concentration – Effluent Treatment Plant source area	mg/kg	>EC10-EC12 Aromatics	Single(14.9)	No mean UCL calculated due to limited dataset. Maximum concentration within the source area used – 14,900 ug/kg.
		>EC12-EC16 Aromatics	Single(105)	No mean UCL calculated due to limited dataset. Maximum concentration within the source area used – 105,000 ug/kg.
		>EC16-EC21 Aromatics	Single(372)	No mean UCL calculated due to limited dataset. Maximum concentration within the source area used – 372,000 ug/kg.
Soil source concentration – Tank Farm Lagoon source area	mg/kg	Trichloroethene (TCE)	Single(69.948)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 69,948 ug/kg.
		Cis-1,2-Dichloroethene	Single(0.9768)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 976.8 ug/kg.
Soil source concentration – Waste/Oil Store and Chip Plant source area	mg/kg	Trichloroethene (TCE)	Single(4.976)	UCL95 of the mean for the concentrations measured within the defined source area calculated as 4,976 ug/kg.
Groundwater source concentration – Tank Farm	mg/l	>EC10-EC12 Aromatics	Single(0.01361)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 13.61 ug/l.
		>EC12-EC16 Aromatics	Single(0.032941)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 32.941 ug/l.
		>EC16-EC21 Aromatics	Single(0.030882)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 30.882 ug/l.
Groundwater source concentration – Effluent Treatment Plant	mg/l	>EC10-EC12 Aromatics	Single(0.006596)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 6.596 ug/l.
		>EC12-EC16 Aromatics	Single(0.037115)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 37.115 ug/l.
		>EC16-EC21 Aromatics	Single(0.074038)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 74.038 ug/l.
Groundwater source concentration – Boiler House	mg/l	>EC10-EC12 Aromatics	Single(0.015424)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 15.424 ug/l.
		Naphthalene	Single(0.001291)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 1.291 ug/l.
		>EC12-EC16 Aromatics	Single(0.085069)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 85.069 ug/l.

Input Value	Unit	Contaminant	Input	Justification
		>EC16-EC21 Aromatics	Single(0.077222)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 77.222 ug/l.
		Lead	Single(0.002115)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 2.115 ug/l.
Groundwater source concentration – Main Factory Building	mg/l	Vinyl Chloride	Single(0.006213)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 6.213 ug/l.
		Lead	Single(0.003157)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 3.157 ug/l.
Groundwater source concentration – Tank Farm Lagoon area	mg/l	TCE	Single(0.009776)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 9.776 ug/l.
		Cis-1,2-DCE	Single(0.044483)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 44.483 ug/l.
Groundwater source concentration – Waste/oil store and Chip Plants area	mg/l	TCE	Single(0.009125)	Average concentration over last year of groundwater monitoring in the selected source area calculated as 9.125 ug/l.

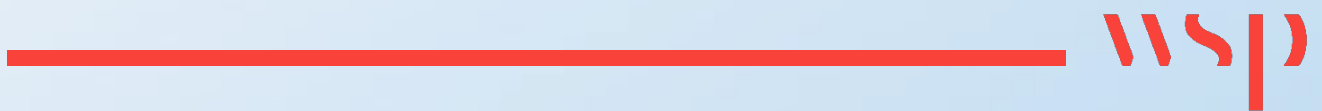
Contaminant	Groundwater, Soil, or Both Models	Henry's Law Constant (unitless)	Partition coefficient (Koc or Kd) (ml/g)	Half Life (years))	Maximum Solubility (mg/l)
>EC10-EC12 Aromatics	Soil and groundwater	4.9xE-1 b	2.5xE3 d	Uniform(1.096,3.29) a	25 d
>EC12-EC16 Aromatics	Soil and groundwater	5.4xE-2 b	5.0xE3 d	Uniform(17.6,34) a	5.8 d
>EC16-EC21 Aromatics	Soil and groundwater	1.3xE-2 b	1.6xE4 d	Uniform(17.6,34) a	0.65 d
Naphthalene	Soil and groundwater	4.9xE-2 a	2.5xE3 d	Uniform(1.096,3.29) a	32.9 a
Trichloroethene (TCE)	Soil and groundwater	4.17xE-1 a	Uniform(18,152) a	Uniform(0.27,2.74) a	1100 a
Cis-1,2-Dichloroethene	Soil and groundwater	4.19xE-2 c	40 e	Uniform(0.22,0.47) a g	500 a
Vinyl Chloride	Groundwater only	N/A (groundwater only)	57 a	Uniform(0.27,1.37) a	N/A (groundwater only)
Lead	Groundwater only	N/A (groundwater only)	Uniform(270,434.6) f	1xE9 (assume no degradation)	N/A (groundwater only)

References:

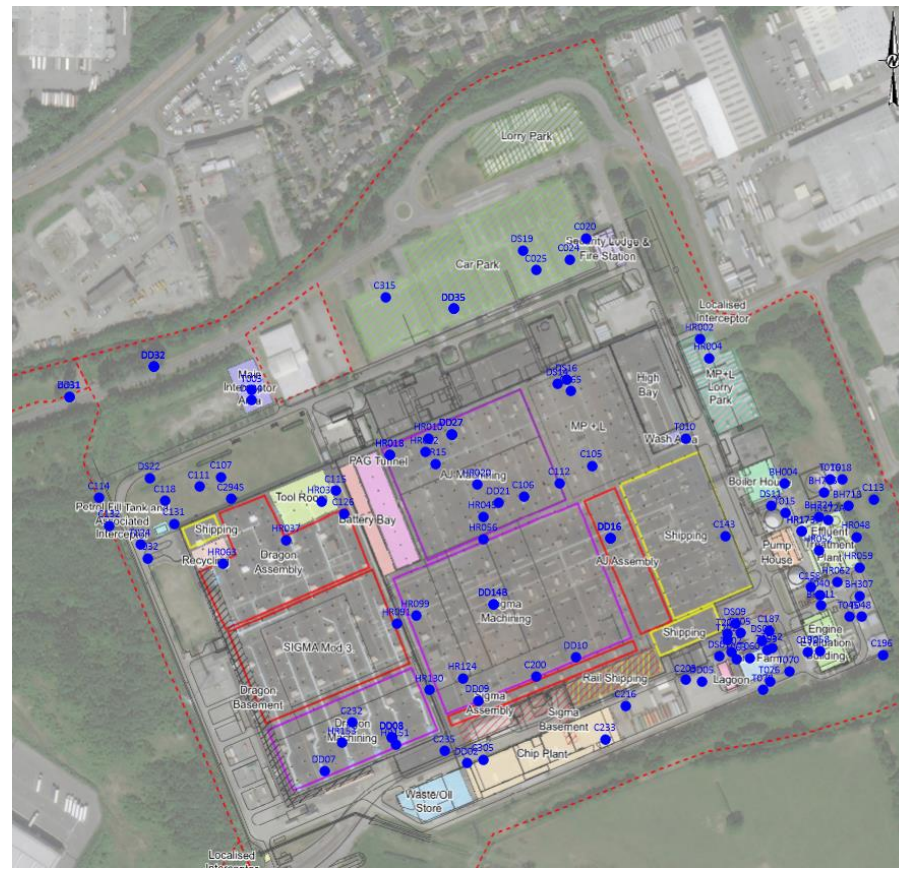
- a ConSim Help files. Indicator substances used as proxy values for fractions as no data for fractions. See report text for detail regarding half life selection.
- b BP Risc database
- c Environment Agency (2004) R&D Technical Report P5-079/TRI
- d CL:AIRE (2017) Petroleum Hydrocarbons in groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies
- e USEPA (2022) Regional Screening Levels, Chemical Specific Parameters
- f Range between the ConSim suggested input values for sand (expected value) and that for glacial till
- g Degradation only applied in the saturated zone as no evidence of degradation to vinyl chloride in soils on Site. Value set of 1E+09 for the unsaturated zone.

Appendix E

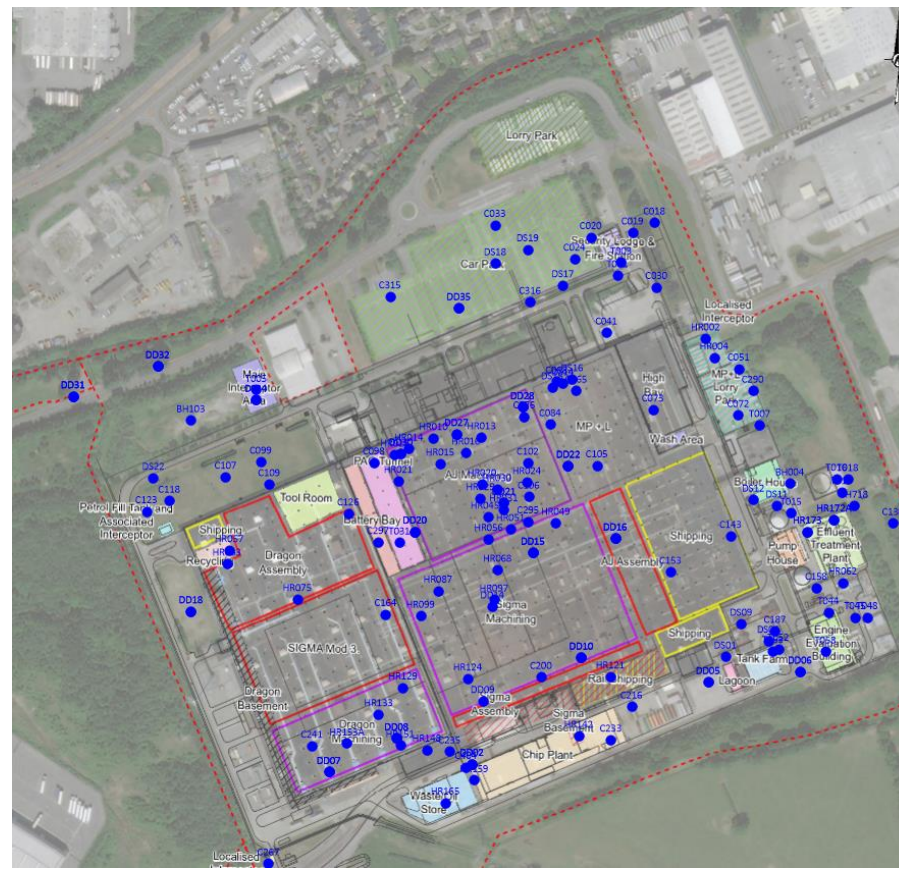
DISSOLVED OXYGEN PLOTS

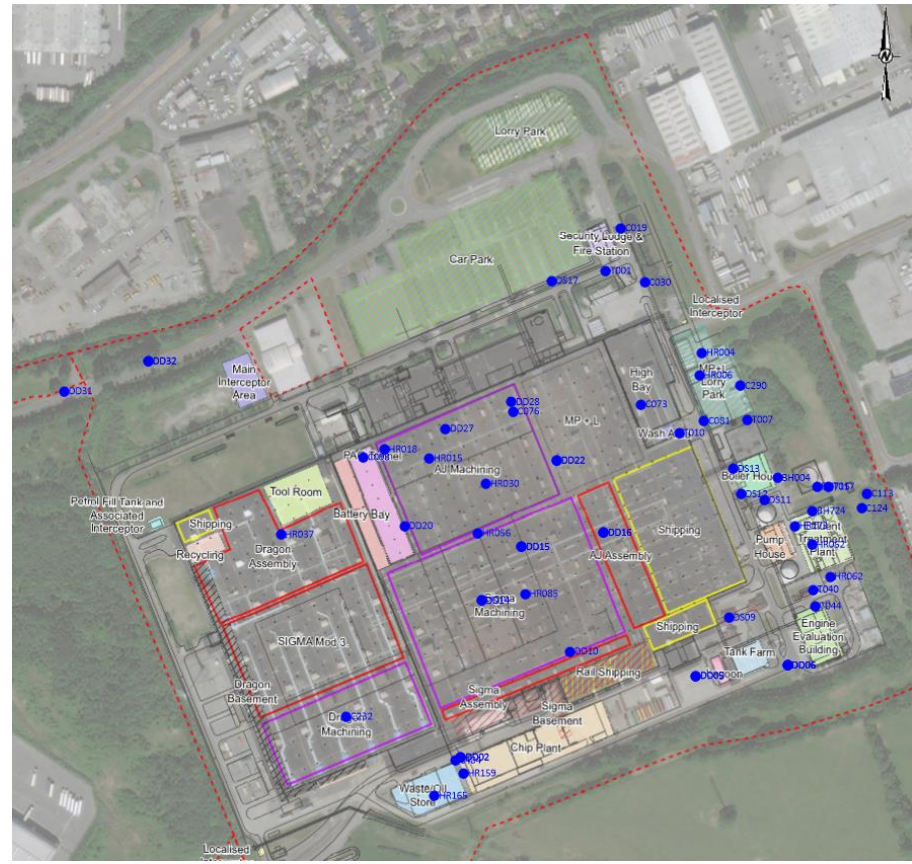






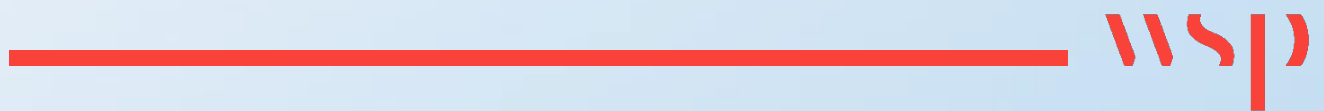
March 2023





Appendix F

BASE MODEL INPUTS AND RESULTS



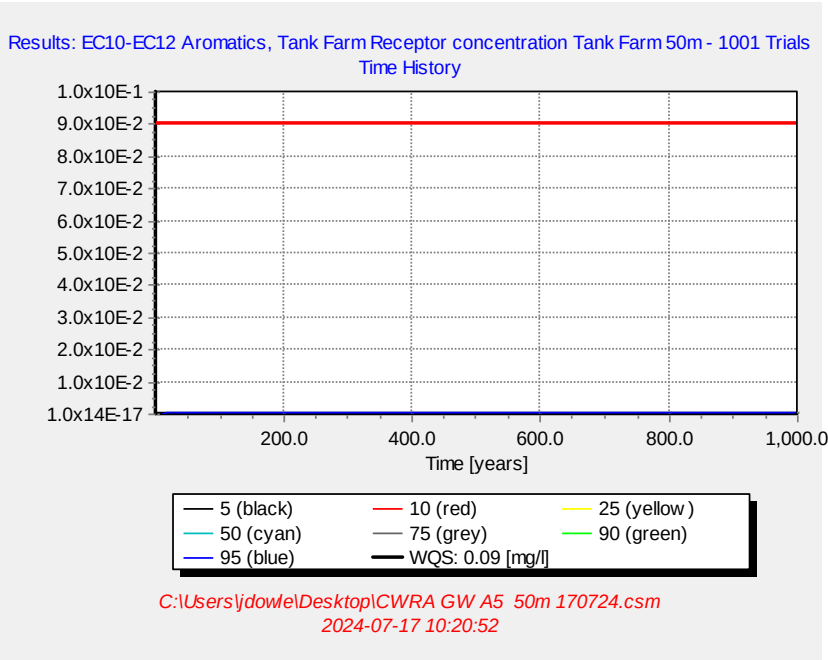
Appendix F.1

GRAPHICAL RESULTS

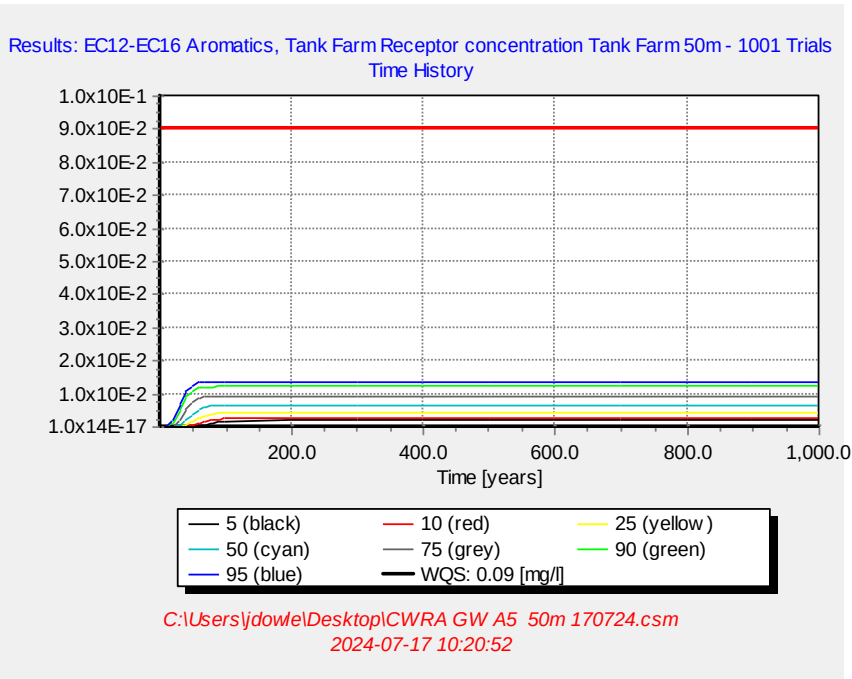


APPENDIX F – BASE MODEL RECEPTOR LOCATIONS AND GRAPHICAL OUTPUTS

Graph GW1

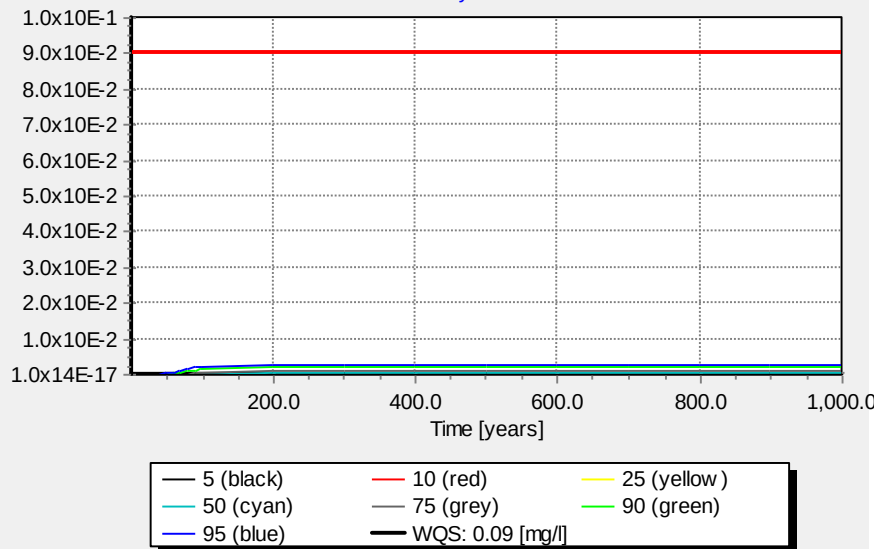


Graph GW2



Graph GW3

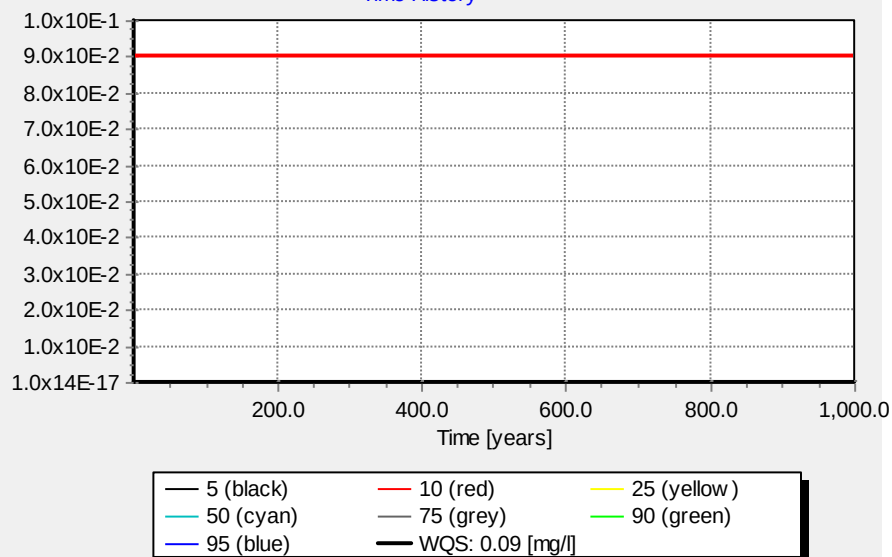
Results: EC16-EC21 Aromatics, Tank Farm Receptor concentration Tank Farm 50m - 1001 Trials
Time History



C:\Users\jdowle\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

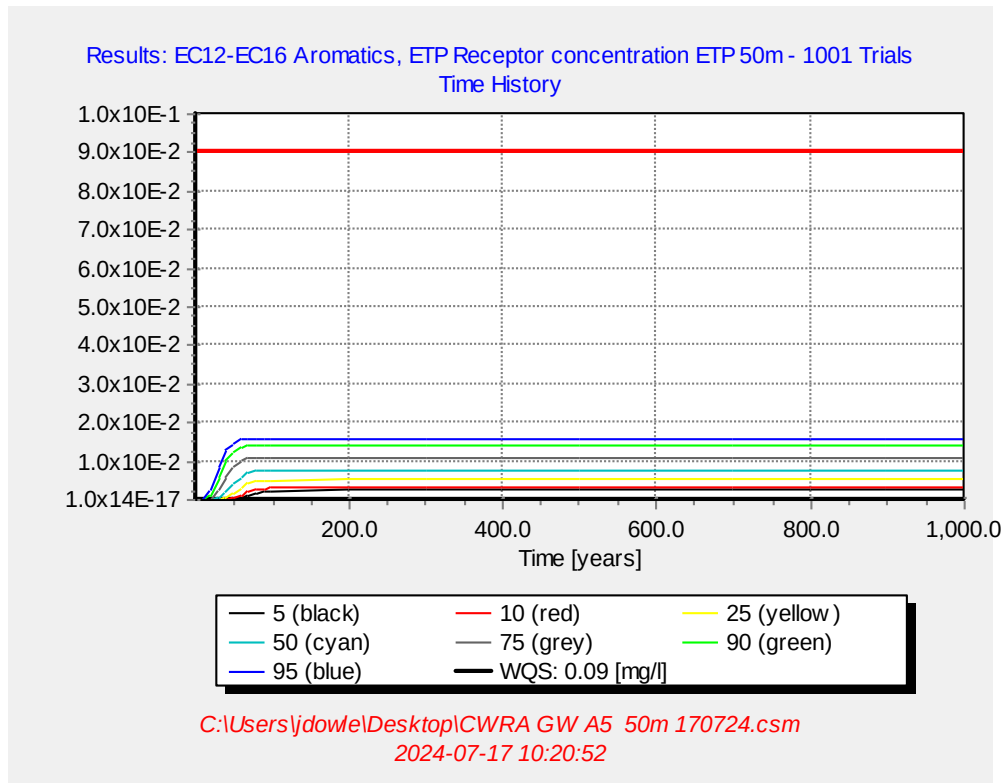
Graph GW4

Results: EC10-EC12 Aromatics, ETP Receptor concentration ETP 50m - 1001 Trials
Time History

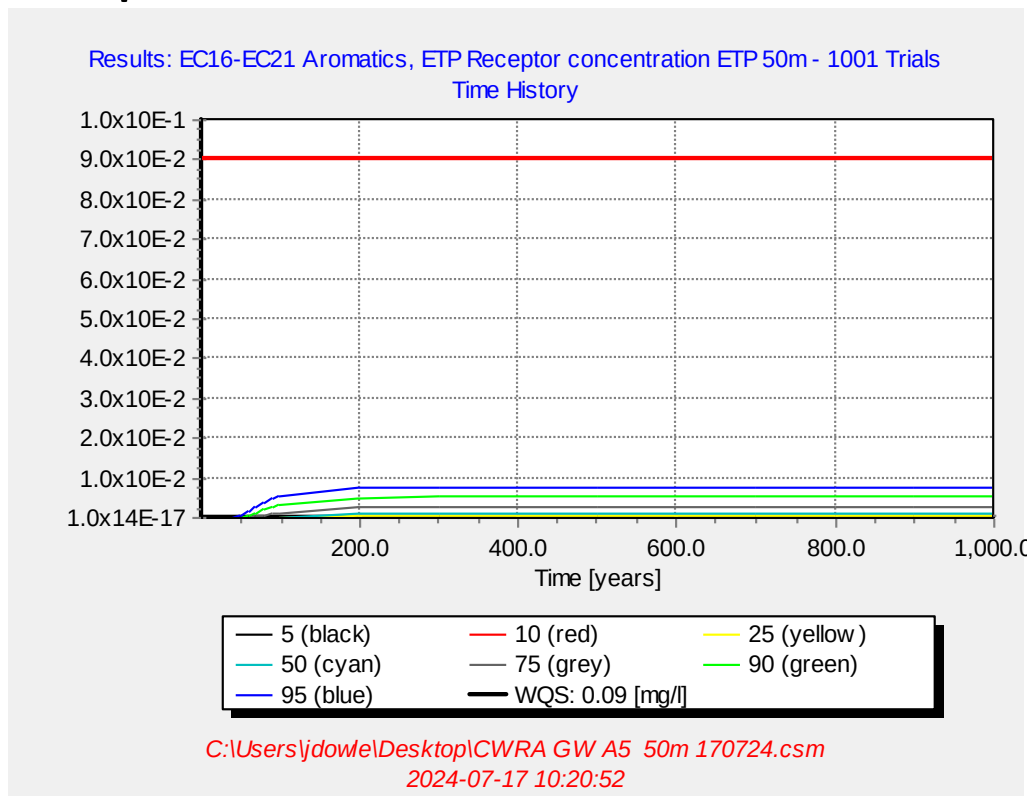


C:\Users\jdowle\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW5

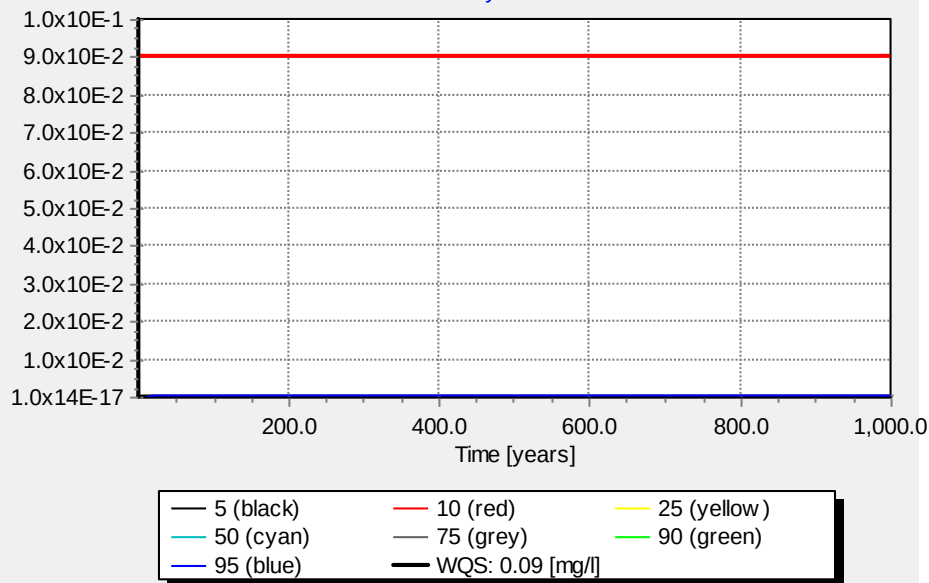


Graph GW6



Graph GW7

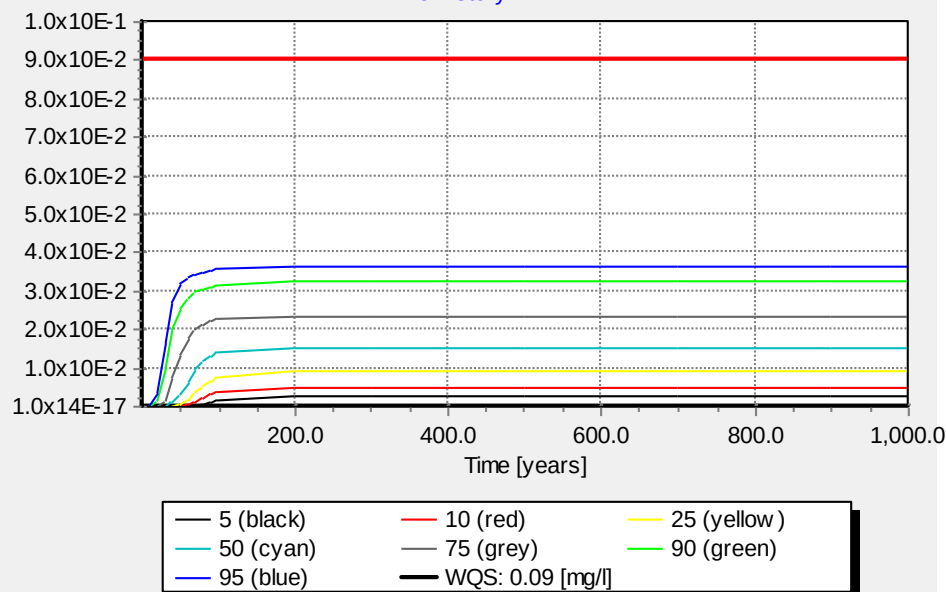
Results: EC10-EC12 Aromatics, Total Receptor concentration Boiler House 50m - 1001 Trials
Time History



C:\Users\jdowne\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW8

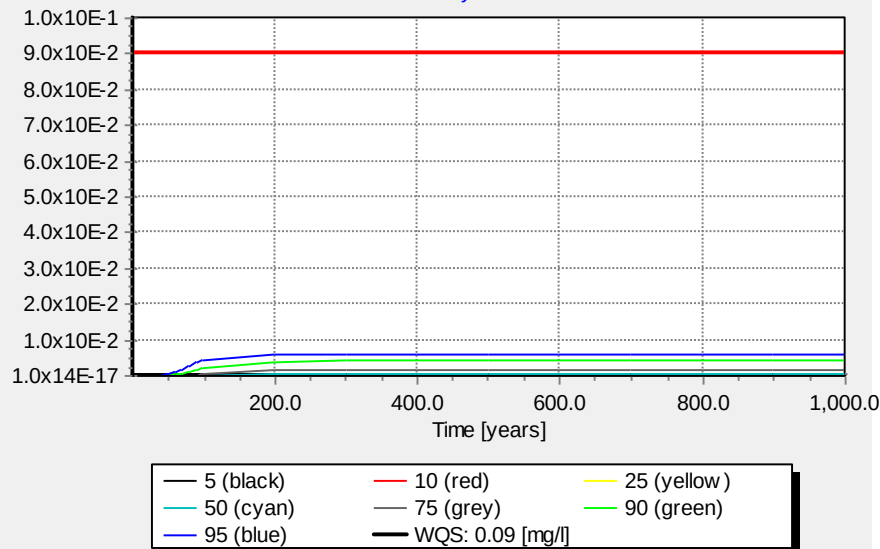
Results: EC12-EC16 Aromatics, Total Receptor concentration Boiler House 50m - 1001 Trials
Time History



C:\Users\jdowne\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW9

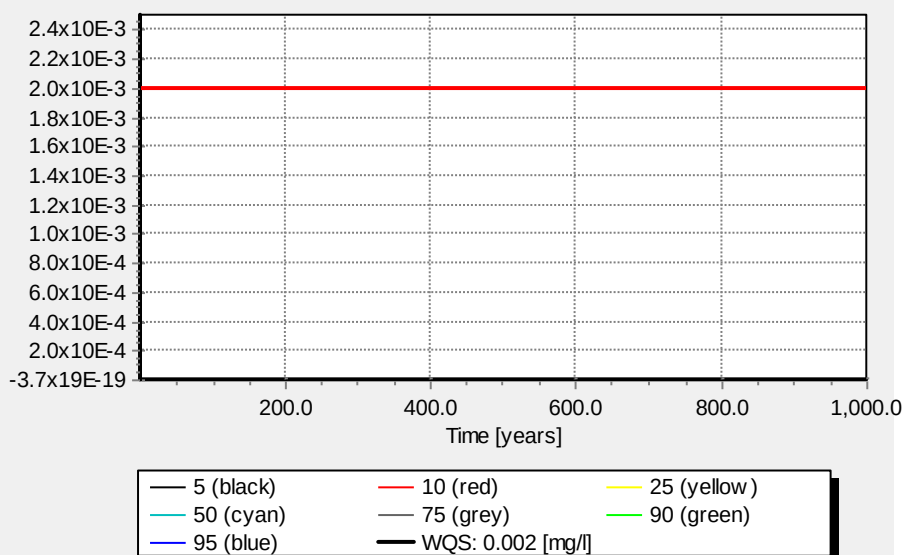
Results: EC16-EC21 Aromatics, Total Receptor concentration Boiler House 50m - 1001 Trials
Time History



C:\Users\jdowme\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW10

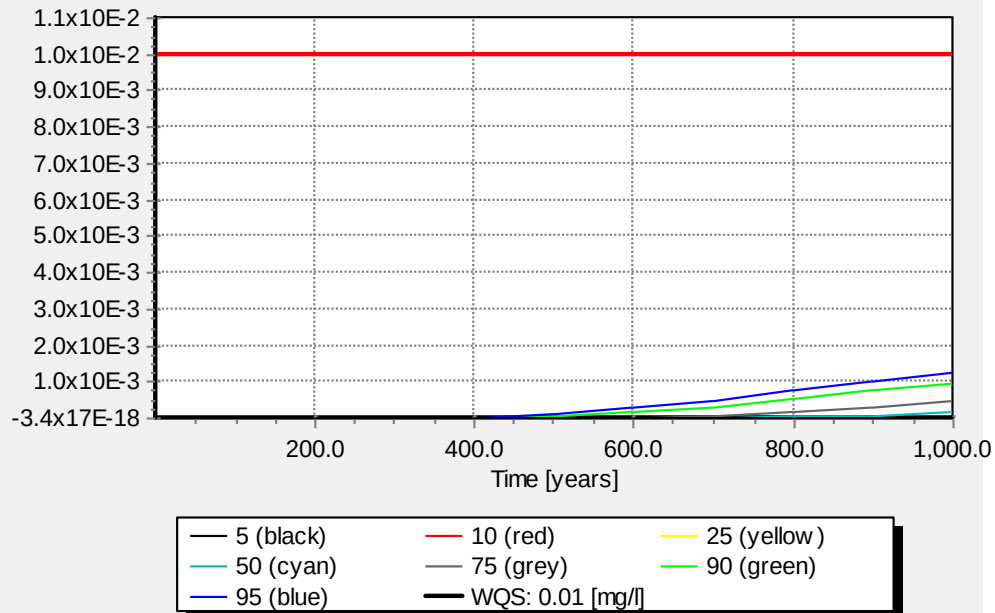
Results: Naphthalene, Boiler House Receptor concentration Naphthalene Receptor - 1001 Trials
Time History



C:\Users\jdowme\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW11

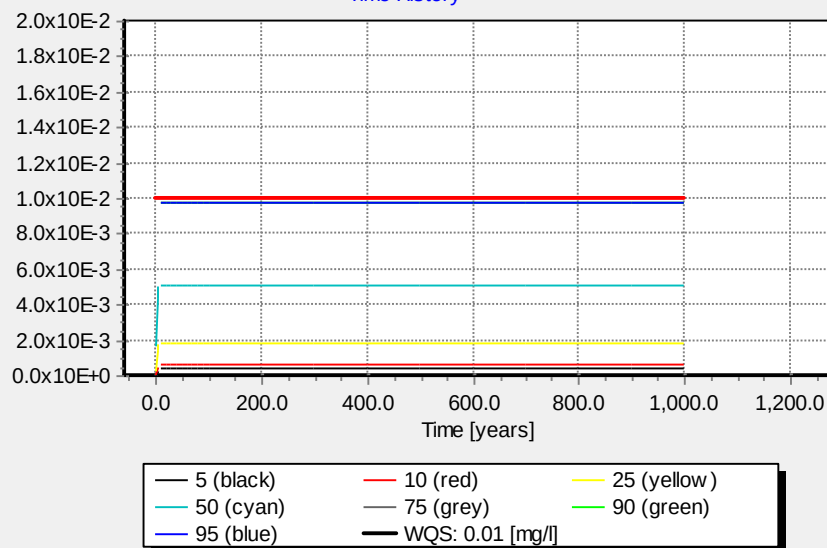
Results: Lead, Lead Boiler House Receptor concentration BH Lead 50m - 1001 Trials
Time History



C:\Users\jdowe\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW12

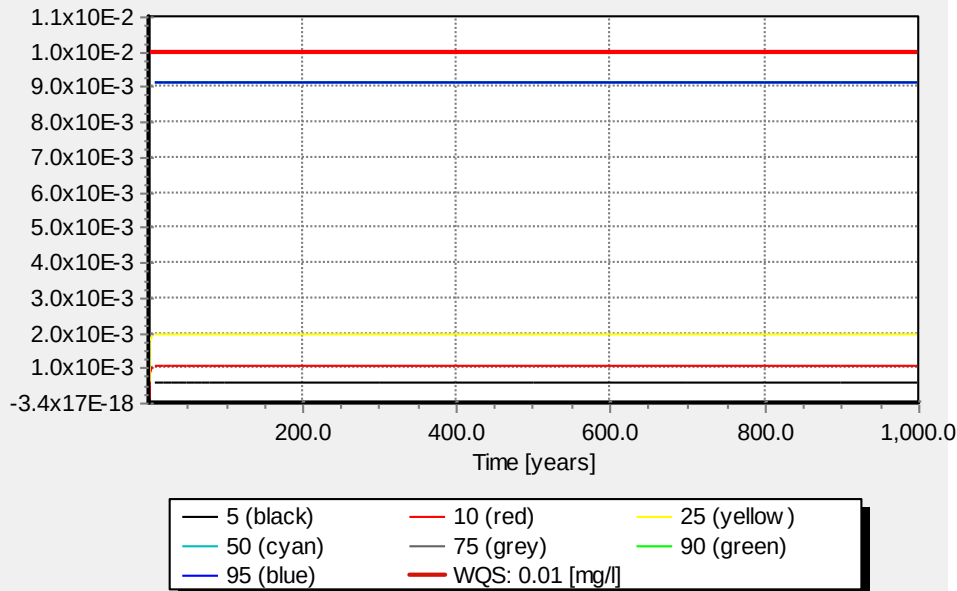
Trichloroethene (TCE), Tank Farm Lagoon CHCs Receptor concentration TF Lagoon CHC 50 m - 1001 Trials
Time History



C:\Users\jdowe\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW13

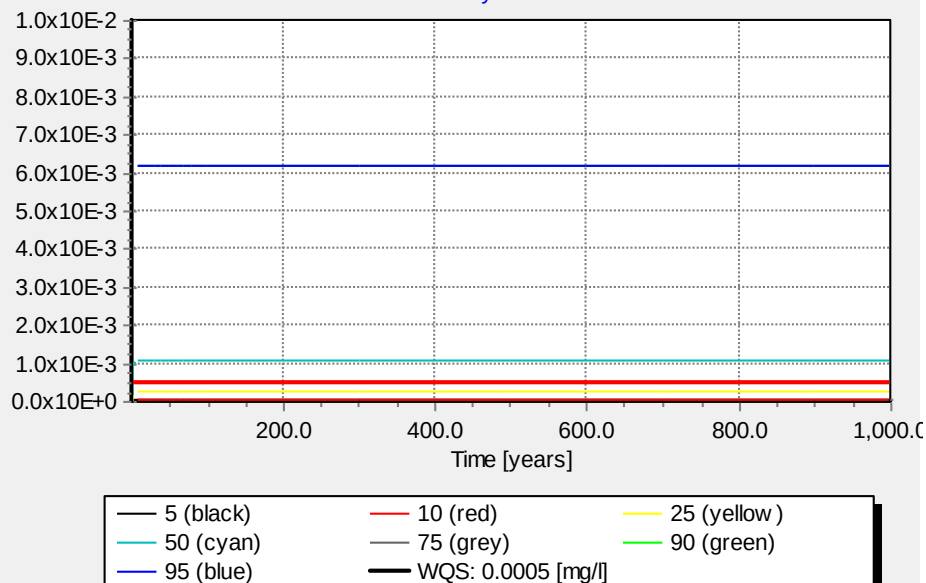
Results: Trichloroethene (TCE), TCE - waste/oil Receptor concentration TCE waste oil 50m - 1001 Trial
Time History



C:\Users\jdowle\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 12:38:38

Graph GW14

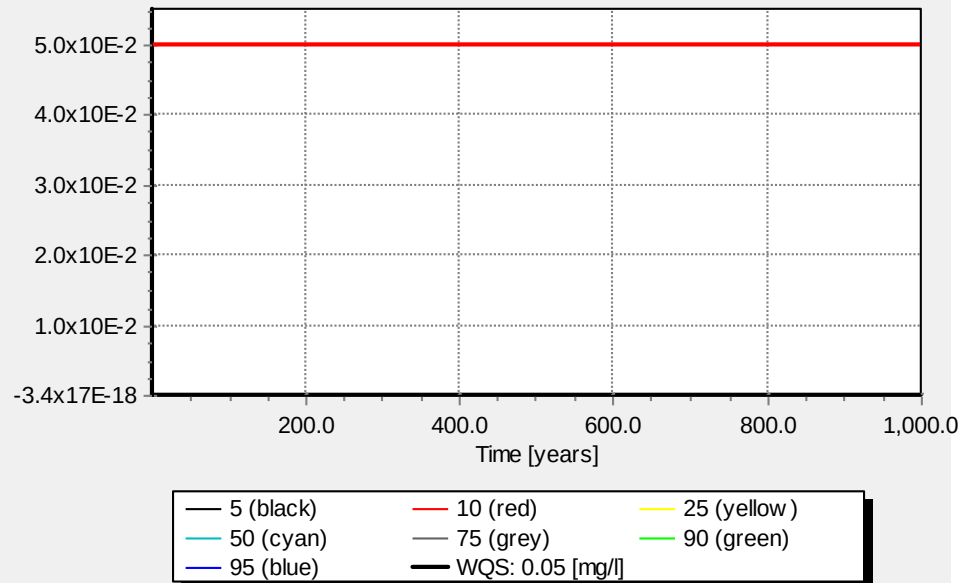
Results: Vinyl Chloride, VC Main Factory Building Receptor concentration VC MFB 50m - 1001 Trials
Time History



C:\Users\jdowle\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW15

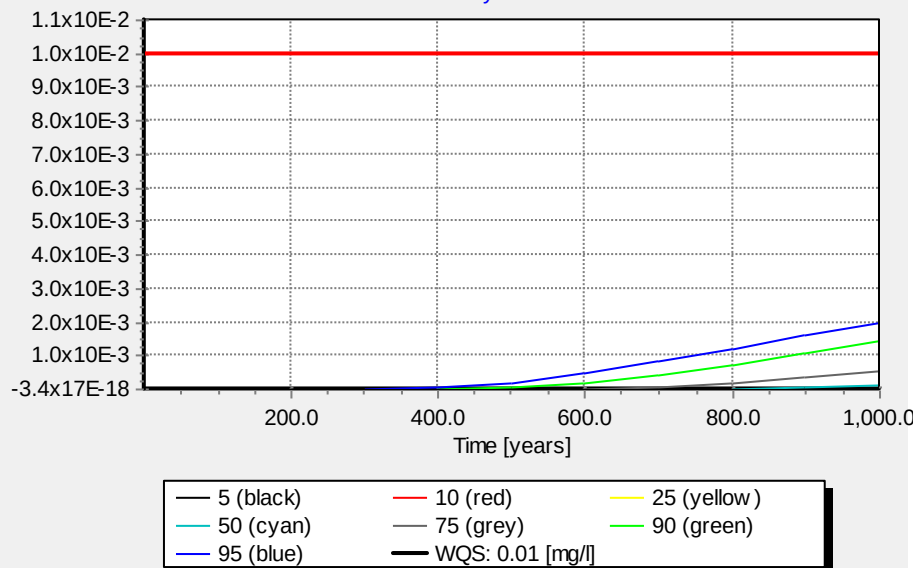
1,2-Dichloroethene (1,2-DCE), Tank Farm Lagoon CHCs Receptor concentration DCE Receptor - 1001 Trials
Time History



C:\Users\jdowne\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph GW16

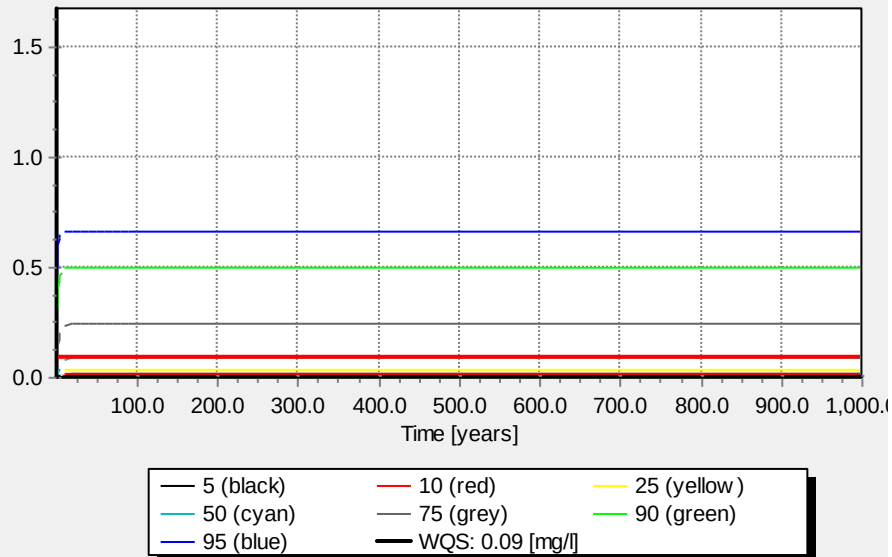
Results: Lead, Lead MFB core and store Receptor concentration Lead MFB 50m - 1001 Trials
Time History



C:\Users\jdowne\Desktop\CWRA GW A5 50m 170724.csm
2024-07-17 10:20:52

Graph S1

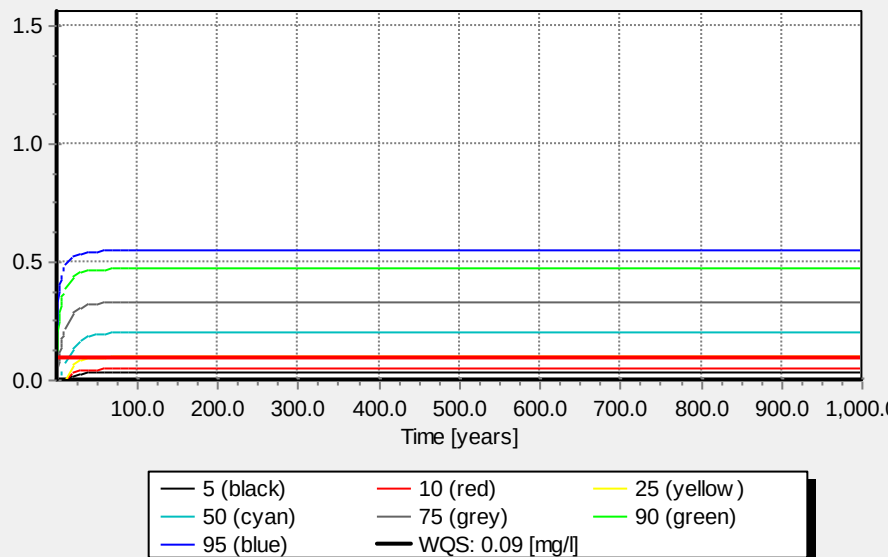
EC12 Aromatics, Boiler House Aromatics Receptor concentration Boiler House Aromatics Receptor
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S2

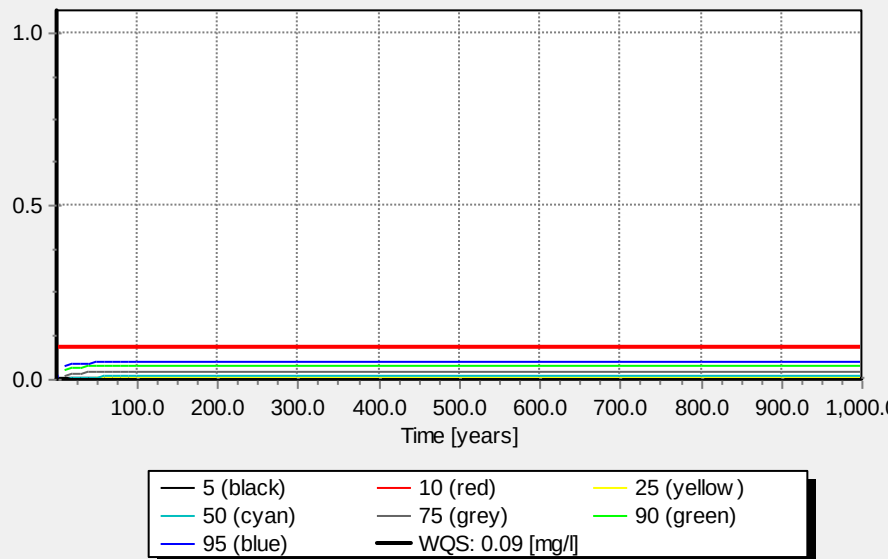
EC16 Aromatics, Boiler House Aromatics Receptor concentration Boiler House Aromatics Receptor
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S3

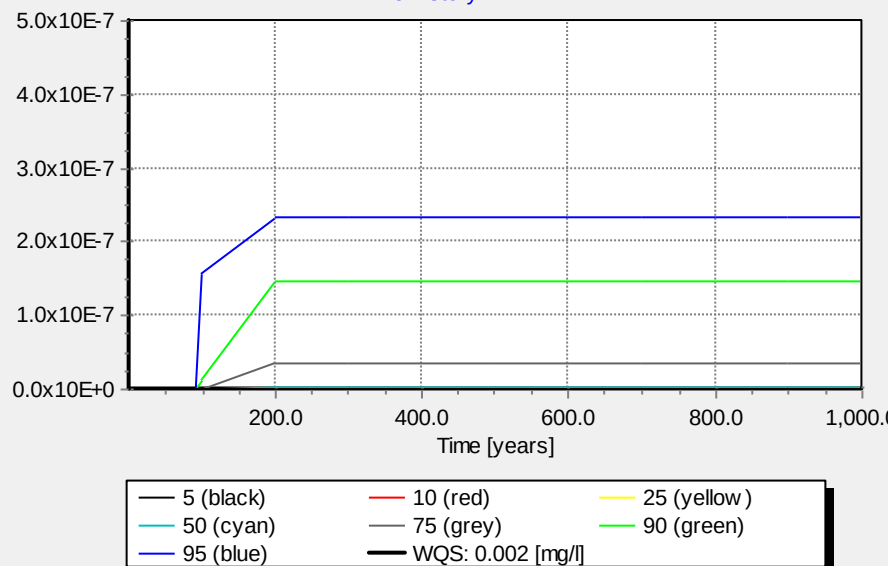
EC21 Aromatics, Boiler House Aromatics Receptor concentration Boiler House Aromatics Receptor
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S4

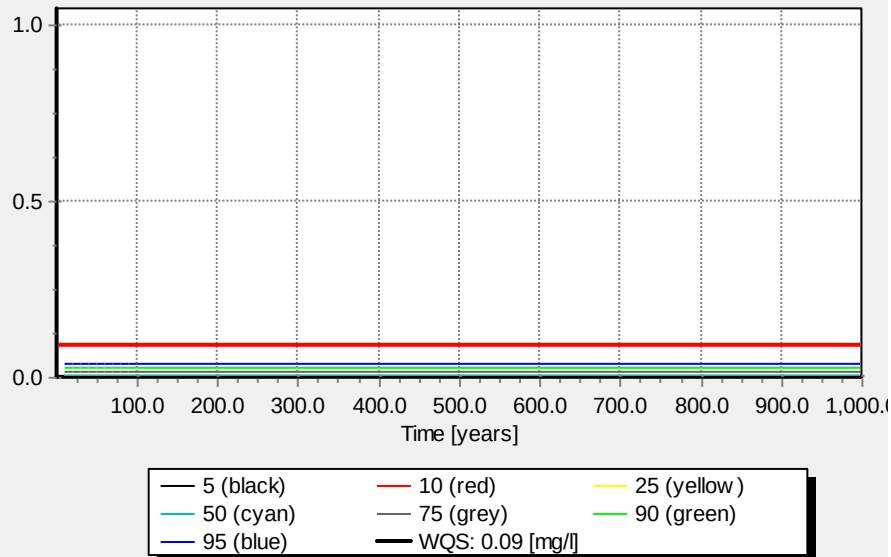
ults: Naphthalene, Boiler House Aromatics Receptor concentration Naphthalene Receptor - 1001 T
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S5

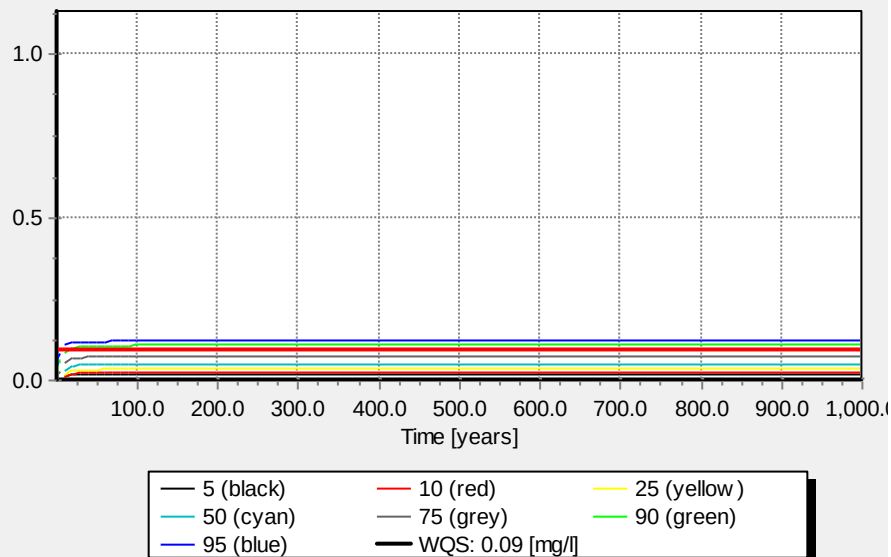
ts: EC10-EC12 Aromatics, ETP Aromatics Receptor concentration ETP Aromatics Receptor - 1001
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S6

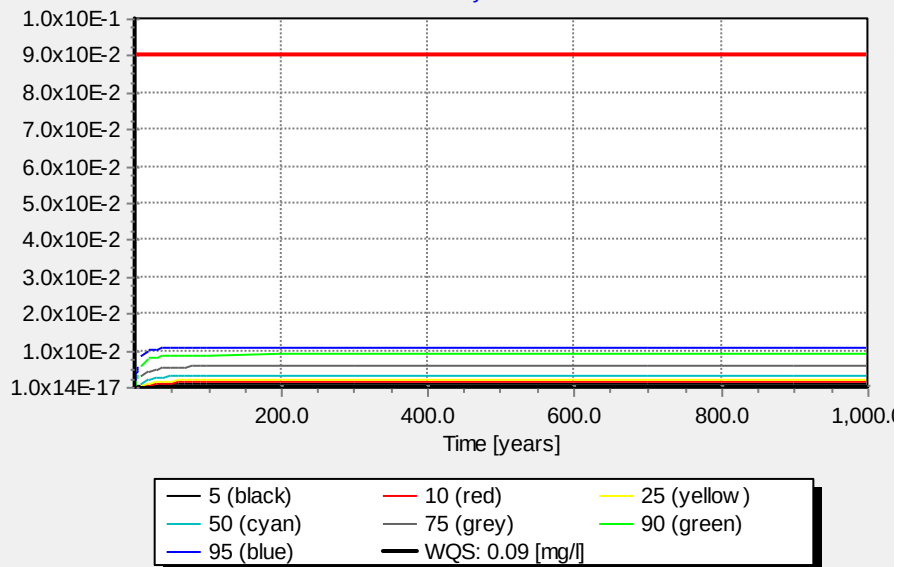
ts: EC12-EC16 Aromatics, ETP Aromatics Receptor concentration ETP Aromatics Receptor - 1001
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S7

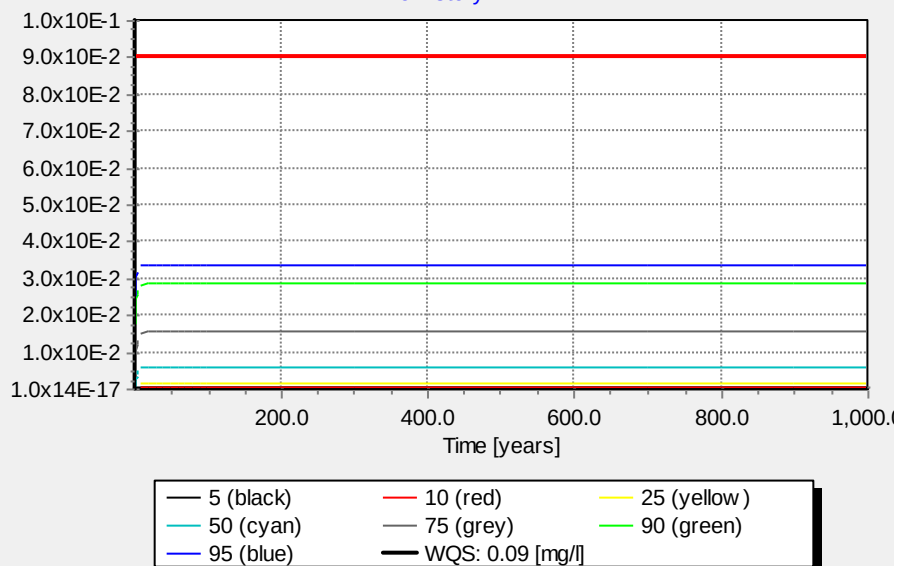
ts: EC16-EC21 Aromatics, ETP Aromatics Receptor concentration ETP Aromatics Receptor - 1001
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

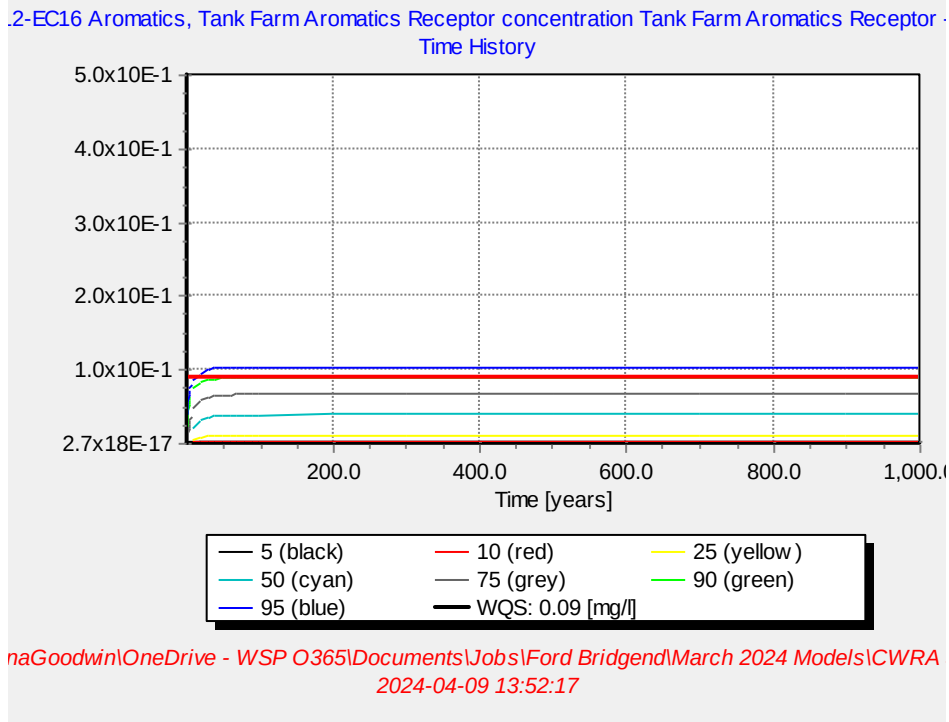
Graph S8

.0-EC12 Aromatics, Tank Farm Aromatics Receptor concentration Tank Farm Aromatics Receptor -
Time History

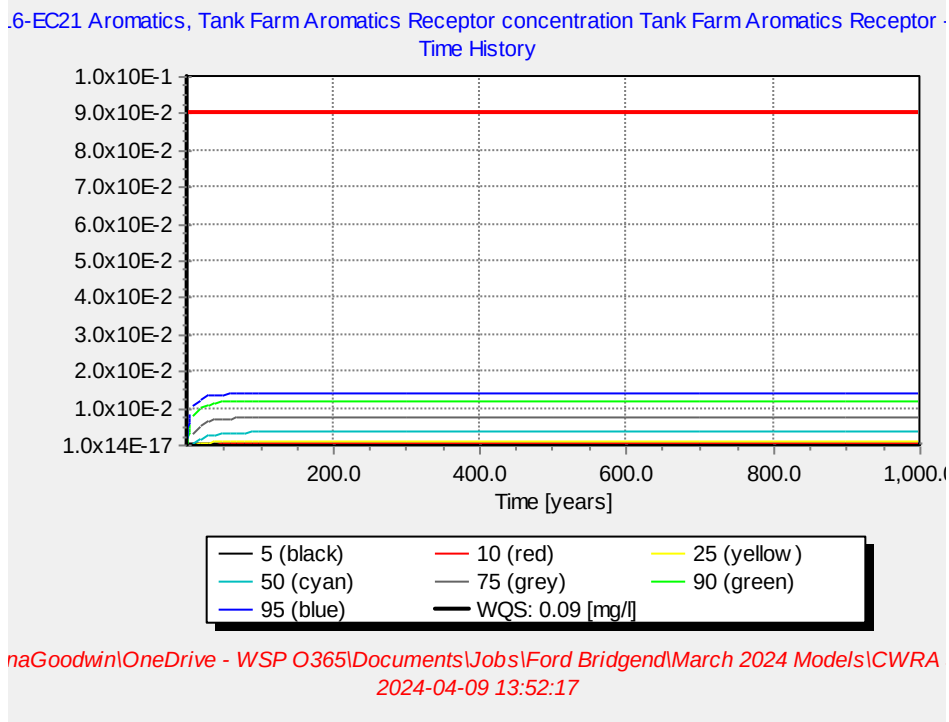


naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S9

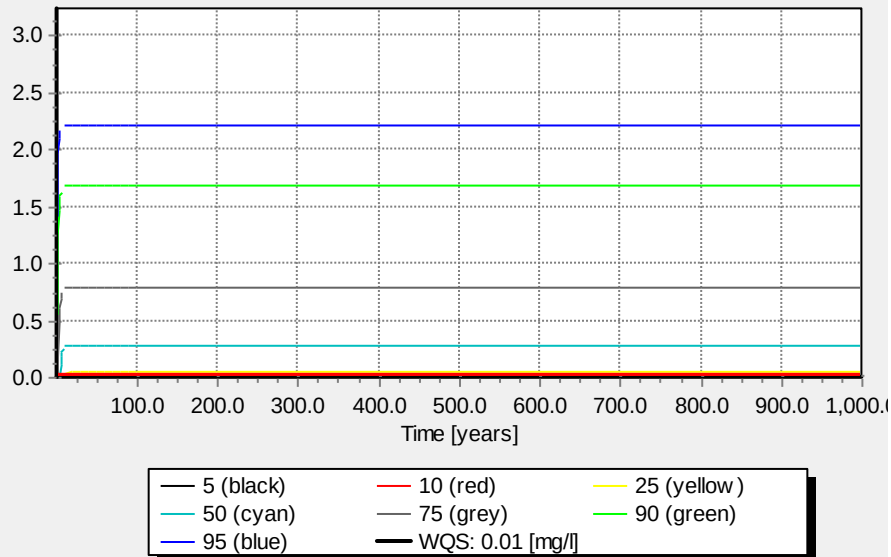


Graph S10



Graph S11

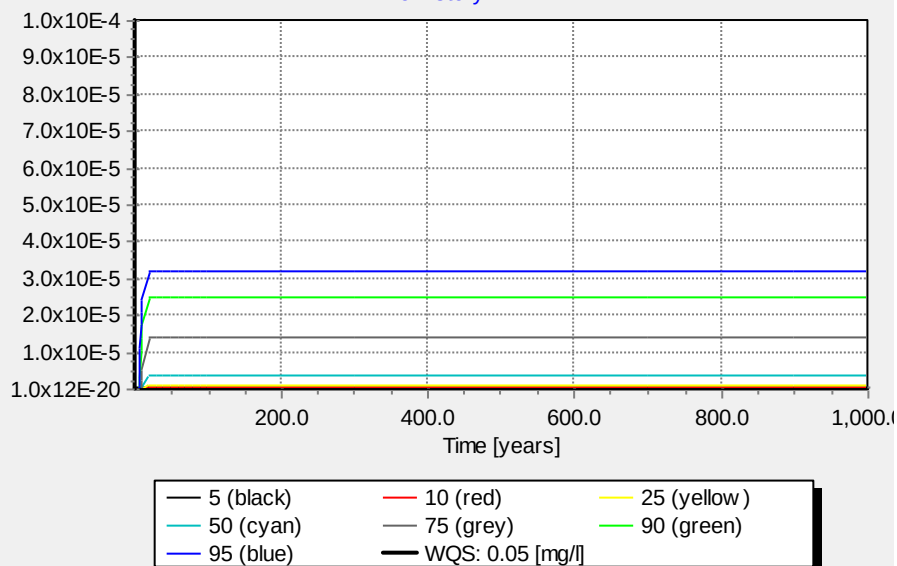
1,2-Dichloroethene (TCE), TCE Tank Farm Lagoon Receptor concentration TCE Tank Farm Lagoon Receptor
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

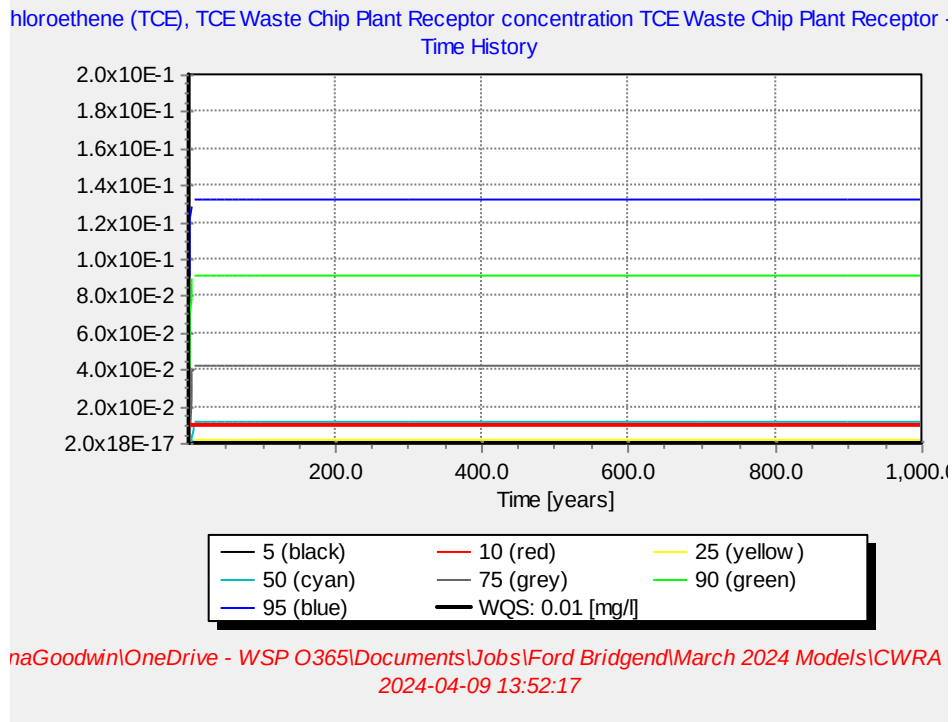
Graph S12

1,2-Dichloroethene (1,2-DCE), DCE Tank Farm Lagoon Receptor concentration DCE Receptor - 10
Time History



naGoodwin\OneDrive - WSP O365\Documents\Jobs\Ford Bridgend\March 2024 Models\CWRA
2024-04-09 13:52:17

Graph S13



Appendix F.2

GROUNDWATER BASE MODEL INPUTS AND RESULTS



Source Inventory:

Vinyl Chloride

Aquifer Source Concentration [mg/l] SINGLE(0.006213)

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.0576074	10% of values less than 0.093432	25% of values less than 0.165914
50% of values less than 0.278927	75% of values less than 0.38689	90% of values less than 0.471512
Minimum 0.00521574	Maximum 0.777358	
Mean 0.285347	SD 0.149703	Variance 0.0224109

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 0.121337	10% of values less than 0.198523	25% of values less than 0.358849
50% of values less than 0.595405	75% of values less than 0.836823	90% of values less than 1.0283
Minimum 0.0116289	Maximum 2.05216	
Mean 0.615908	SD 0.329303	Variance 0.108441

VC Main Factory Building - Vinyl Chloride

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0.00051865	10% of values less than 0.0023034	25% of values less than 0.006213
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 1.41167E-005 0.006213	Maximum 0.006213	
Mean 0.00561498	SD 0.00170041	Variance 2.89141E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.415652	10% of values less than 0.455933	25% of values less than 0.544452
50% of values less than 0.664863	75% of values less than 0.78584	90% of values less than 0.927782
Minimum 0.329002 than 1.05186	Maximum 1.36251	
Mean 0.682027	SD 0.186601	Variance 0.03482

Retarded Travel Time to Lead MFB years

05% of values less than 0.879776	10% of values less than 0.977199	25% of values less than 1.17337
50% of values less than 1.41228	75% of values less than 1.6908	90% of values less than 2.02669
Minimum 0.65979s than 2.25521	Maximum 3.59693	
Mean 1.47295	SD 0.433908	Variance 0.188276

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 9.11748E-017	10% of values less than 5.52583E-016	25% of values less than 2.62518E-014
50% of values less than 4.00429E-012	75% of values less than 3.0153E-010	90% of values less than 0.006213
Minimum 2.68849E-018 0.006213	Maximum 0.006213	
Mean 0.000707575	SD 0.00197469	Variance 3.89939E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0151972	25% of values less than 0.0759729
50% of values less than 0.191001	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 353646	SD 478340	Variance 2.28809E+011

Retarded Travel Time to Boiler House Receptor years

05% of values less than 0	10% of values less than 0.0334412	25% of values less than 0.163271
50% of values less than 0.400801	75% of values less than 2.04786E+006	90% of values less than 2.24762E+006
Minimum 0.es less than 2.36208E+006	Maximum 2.68759E+006	
Mean 763242	SD 1.03732E+006	Variance 1.07604E+012

VC Main Factory Building - Vinyl Chloride

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00400959	SD 0.00297382	Variance 8.84361E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP Receptor years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.311421	10% of values less than 0.346338	25% of values less than 0.432952
50% of values less than 0.548057	75% of values less than 0.661234	90% of values less than 0.784873
Minimum 0.231769	Maximum 1.18647	
Mean 0.562688	SD 0.173213	Variance 0.0300029

Retarded Travel Time to VC MFB 50m years

05% of values less than 0.666307	10% of values less than 0.737452	25% of values less than 0.930325
50% of values less than 1.1718	75% of values less than 1.43597	90% of values less than 1.72458
Minimum 0.464795	Maximum 3.13219	
Mean 1.21512	SD 0.396488	Variance 0.157203

VC Main Factory Building - Vinyl Chloride

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 3.91395E-005	10% of values less than 7.68589E-005	25% of values less than 0.000246227
50% of values less than 0.00107953	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 5.21124E-006 0.006213	Maximum 0.006213	
Mean 0.00245258	SD 0.00261353	Variance 6.83051E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.0770071	10% of values less than 0.11299	25% of values less than 0.187652
50% of values less than 0.301204	75% of values less than 0.409337	90% of values less than 0.495117
Minimum 0.0236292	Maximum 0.80964	
Mean 0.307231	SD 0.151086	Variance 0.0228269

Retarded Travel Time to Boiler House 50m years

05% of values less than 0.161943	10% of values less than 0.241032	25% of values less than 0.400851
50% of values less than 0.6427	75% of values less than 0.887746	90% of values less than 1.08413
Minimum 0.0473867	Maximum 2.13739	
Mean 0.663189	SD 0.333312	Variance 0.111097

VC Main Factory Building - Vinyl Chloride

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0.006213
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00533164	SD 0.00216883	Variance 4.70381E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.415652	10% of values less than 0.455933	25% of values less than 0.544452
50% of values less than 0.664863	75% of values less than 0.78584	90% of values less than 0.927782
Minimum 0.329002	Maximum 1.36251	
Mean 0.682027	SD 0.186601	Variance 0.03482

Retarded Travel Time to Lead MFB 50m years

05% of values less than 0.879776	10% of values less than 0.977199	25% of values less than 1.17337
50% of values less than 1.41228	75% of values less than 1.6908	90% of values less than 2.02669
Minimum 0.65979s	Maximum 3.59693	
Mean 1.47295	SD 0.433908	Variance 0.188276

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 9.11748E-017	10% of values less than 5.52583E-016	25% of values less than 2.62518E-014
50% of values less than 4.00429E-012	75% of values less than 3.0153E-010	90% of values less than 0.006213
Minimum 2.68849E-018 0.006213	Maximum 0.006213	
Mean 0.000707575	SD 0.00197469	Variance 3.89939E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0152274	25% of values less than 0.0764776
50% of values less than 0.191454	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 352647	SD 478033	Variance 2.28515E+011

Retarded Travel Time to BH Lead 50m years

05% of values less than 0	10% of values less than 0.0347245	25% of values less than 0.164602
50% of values less than 0.402126	75% of values less than 2.04786E+006	90% of values less than 2.24762E+006
Minimum 0.es less than 2.36208E+006	Maximum 2.68759E+006	
Mean 761426	SD 1.03707E+006	Variance 1.07551E+012

VC Main Factory Building - Vinyl Chloride

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.0040158	SD 0.00297193	Variance 8.83235E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 951049	SD 215874	Variance 4.66014E+010

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.80693E+006	10% of values less than 1.91385E+006	25% of values less than 2.01193E+006
50% of values less than 2.13076E+006	75% of values less than 2.26818E+006	90% of values less than 2.39316E+006
Minimum 0.es less than 2.45032E+006	Maximum 2.68759E+006	
Mean 2.05251E+006	SD 494348	Variance 2.4438E+011

VC Main Factory Building - Vinyl Chloride

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000	Maximum 0.006213	
Mean 0.000304133	SD 0.00134122	Variance 1.79888E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.173566	10% of values less than 0.208081	25% of values less than 0.28554
50% of values less than 0.400429	75% of values less than 0.513061	90% of values less than 0.614983
Minimum 0.107084 than 0.700572	Maximum 0.960732	
Mean 0.409658	SD 0.158716	Variance 0.0251908

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 0.36491	10% of values less than 0.434728	25% of values less than 0.61155
50% of values less than 0.860843	75% of values less than 1.10385	90% of values less than 1.33748
Minimum 0.214748 than 1.48802	Maximum 2.53626	
Mean 0.884487	SD 0.355305	Variance 0.126242

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.07786E-018	10% of values less than 3.86066E-017	25% of values less than 4.8938E-013
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00402821	SD 0.0029681	Variance 8.8096E-006

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to ETP 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP 50m years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm 50m years

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.71447	10% of values less than 1.78795	25% of values less than 1.92658
50% of values less than 2.12019	75% of values less than 2.44894	90% of values less than 2.91624
Minimum 1.58553s than 3.12315	Maximum 3.8316	
Mean 2.23789	SD 0.427757	Variance 0.182976

Retarded Travel Time to DCE Receptor years

05% of values less than 3.63284	10% of values less than 3.80615	25% of values less than 4.11369
50% of values less than 4.55165	75% of values less than 5.25452	90% of values less than 6.23849
Minimum 3.1407ss than 7.30093	Maximum 9.65581	
Mean 4.83448	SD 1.07192	Variance 1.14902

VC Main Factory Building - Vinyl Chloride

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.7502E-007	10% of values less than 6.31895E-007	25% of values less than 7.55782E-006
50% of values less than 4.95699E-005	75% of values less than 0.000138471	90% of values less than 0.000261539
Minimum 2.3259E-010n 0.000330998	Maximum 0.000691946	
Mean 9.31351E-005	SD 0.000114688	Variance 1.31532E-008

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.79987	10% of values less than 1.87404	25% of values less than 2.01651
50% of values less than 2.21515	75% of values less than 2.55976	90% of values less than 3.04623
Minimum 1.66833s than 3.25393	Maximum 3.99655	
Mean 2.34123	SD 0.445458	Variance 0.198433

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 3.81569	10% of values less than 3.99161	25% of values less than 4.29892
50% of values less than 4.75893	75% of values less than 5.49018	90% of values less than 6.51638
Minimum 3.30471s than 7.62063	Maximum 10.0583	
Mean 5.05776	SD 1.11776	Variance 1.24939

VC Main Factory Building - Vinyl Chloride

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.80541E-013	10% of values less than 1.04881E-012	25% of values less than 1.27782E-011
50% of values less than 2.40465E-010	75% of values less than 2.59006E-009	90% of values less than 1.7449E-008
Minimum 4.58735E-016 4.45774E-008	Maximum 3.9239E-007	
Mean 8.46293E-009	SD 2.96651E-008	Variance 8.80017E-016

Source Inventory:

Naphthalene

Aquifer Source Concentration [mg/l] SINGLE(0.001291)

EC12-EC16 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.085069)

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.077222)

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.015424)

Boiler House - Naphthalene

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 15.8976	10% of values less than 17.8927	25% of values less than 23.9331
50% of values less than 32.4019	75% of values less than 40.8473	90% of values less than 48.3139
Minimum 11.26	Maximum 104.319	
Mean 33.6835	SD 13.3522	Variance 178.28

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 31.4455	10% of values less than 35.4721	25% of values less than 47.348
50% of values less than 64.1902	75% of values less than 80.8941	90% of values less than 95.7802
Minimum 22.2644s	Maximum 207.247	
Mean 66.7176	SD 26.5038	Variance 702.451

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279 than 1.06223	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 99.8562	10% of values less than 112.821	25% of values less than 150.373
50% of values less than 203.932	75% of values less than 257.171	90% of values less than 304.642
Minimum 70.6836s than 361.21	Maximum 660.131	
Mean 212.068	SD 84.3717	Variance 7118.58

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 15.8976	10% of values less than 17.8927	25% of values less than 23.9331
50% of values less than 32.4019	75% of values less than 40.8473	90% of values less than 48.3139
Minimum 11.26	Maximum 104.319	
Mean 33.6835	SD 13.3522	Variance 178.28

Boiler House - Naphthalene

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 4.60891E-024
Minimum 0.es less than 2.77527E-022	Maximum 3.41225E-018	
Mean 1.12359E-020	SD 1.49907E-019	Variance 2.2472E-038

Boiler House - EC12-EC16 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.26635E-018
Minimum 0.es less than 1.0687E-016	Maximum 3.66757E-013	
Mean 1.25667E-015	SD 1.64165E-014	Variance 2.69501E-028

Boiler House - EC16-EC21 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 2.47421E-020
Minimum 0.es less than 7.21177E-019	Maximum 1.11182E-014	
Mean 2.17332E-017	SD 3.71192E-016	Variance 1.37784E-031

Boiler House - EC10-EC12 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.85074E-022
Minimum 0.es less than 6.93669E-021	Maximum 8.71254E-017	
Mean 1.37264E-019	SD 2.8924E-018	Variance 8.36598E-036

Boiler House - Naphthalene

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB years

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB years

05% of values less than 65.6755	10% of values less than 71.173	25% of values less than 84.0454
50% of values less than 101.643	75% of values less than 122.508	90% of values less than 148.091
Minimum 49.9158s than 176.871	Maximum 298.245	
Mean 107.497	SD 34.6303	Variance 1199.26

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB years

05% of values less than 208.564	10% of values less than 226.215	25% of values less than 267.053
50% of values less than 322.996	75% of values less than 389.584	90% of values less than 471.015
Minimum 158.47ss than 562.97	Maximum 949.981	
Mean 341.69	SD 110.315	Variance 12169.4

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB years

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Boiler House - Naphthalene

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor years

05% of values less than 4.10168	10% of values less than 6.26582	25% of values less than 11.9421
50% of values less than 19.9423	75% of values less than 27.7085	90% of values less than 33.1036
Minimum 0.833273	Maximum 75.0359	
Mean 20.5213	SD 11.3349	Variance 128.481

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor years

05% of values less than 8.10855	10% of values less than 12.4109	25% of values less than 23.6323
50% of values less than 39.5282	75% of values less than 54.9084	90% of values less than 65.7048
Minimum 1.64668	Maximum 149.072	
Mean 40.6467	SD 22.4794	Variance 505.322

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor years

05% of values less than 25.7712	10% of values less than 39.4493	25% of values less than 75.0692
50% of values less than 125.657	75% of values less than 174.599	90% of values less than 209.15
Minimum 5.22569	Maximum 474.828	
Mean 129.199	SD 71.5152	Variance 5114.43

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor years

05% of values less than 4.10168	10% of values less than 6.26582	25% of values less than 11.9421
50% of values less than 19.9423	75% of values less than 27.7085	90% of values less than 33.1036
Minimum 0.833273	Maximum 75.0359	
Mean 20.5213	SD 11.3349	Variance 128.481

Boiler House - Naphthalene

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.82547E-008	10% of values less than 9.28303E-008	25% of values less than 8.1159E-007
50% of values less than 7.46376E-006	75% of values less than 4.98379E-005	90% of values less than 0.000214803
Minimum 9.00891E-013 0.000362816	Maximum 0.001291	
Mean 6.2334E-005	SD 0.000131307	Variance 1.72414E-008

Boiler House - EC12-EC16 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.00848326	10% of values less than 0.011441	25% of values less than 0.0177573
50% of values less than 0.0282214	75% of values less than 0.0431216	90% of values less than 0.0579885
Minimum 0.00142805an 0.0646118	Maximum 0.0773391	
Mean 0.031538	SD 0.017267	Variance 0.000298149

Boiler House - EC16-EC21 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.000160474	10% of values less than 0.000310326	25% of values less than 0.00111258
50% of values less than 0.00348102	75% of values less than 0.0117097	90% of values less than 0.0261892
Minimum 1.10332E-006 0.0353925	Maximum 0.0566421	
Mean 0.00862577	SD 0.0114759	Variance 0.000131695

Boiler House - EC10-EC12 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.92631E-007	10% of values less than 9.36567E-007	25% of values less than 1.1491E-005
50% of values less than 8.27459E-005	75% of values less than 0.000623621	90% of values less than 0.00260432
Minimum 7.35654E-011 0.00440448	Maximum 0.015424	
Mean 0.000776486	SD 0.00161922	Variance 2.62189E-006

Boiler House - Naphthalene

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 982018	SD 132952	Variance 1.76763E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 4.0091E+007	10% of values less than 4.1953E+007	25% of values less than 4.56921E+007
50% of values less than 5.07669E+007	75% of values less than 5.68891E+007	90% of values less than 6.22911E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 5.0849E+007	SD 1.01201E+007	Variance 1.02416E+014

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 982018	SD 132952	Variance 1.76763E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 7.9182E+007	10% of values less than 8.2906E+007	25% of values less than 9.03843E+007
50% of values less than 1.00534E+008	75% of values less than 1.12778E+008	90% of values less than 1.23582E+008
Minimum 0.es less than 1.28645E+008	Maximum 1.49034E+008	
Mean 1.00716E+008	SD 2.01499E+007	Variance 4.0602E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 982018	SD 132952	Variance 1.76763E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 2.51182E+008	10% of values less than 2.63099E+008	25% of values less than 2.8703E+008
50% of values less than 3.19508E+008	75% of values less than 3.5869E+008	90% of values less than 3.93263E+008
Minimum 0.es less than 4.09464E+008	Maximum 4.74709E+008	
Mean 3.20131E+008	SD 6.42823E+007	Variance 4.13221E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 982018	SD 132952	Variance 1.76763E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 4.0091E+007	10% of values less than 4.1953E+007	25% of values less than 4.56921E+007
50% of values less than 5.07669E+007	75% of values less than 5.68891E+007	90% of values less than 6.22911E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 5.0849E+007	SD 1.01201E+007	Variance 1.02416E+014

Variance 2.94608E-008

Boiler House - EC12-EC16 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.085069	
Mean 0.00152971	SD 0.0113101	Variance 0.000127919

Boiler House - EC16-EC21 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.077222	
Mean 0.00138861	SD 0.0102668	Variance 0.000105408

Boiler House - EC10-EC12 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.015424	
Mean 0.000277355	SD 0.00205066	Variance 4.20519E-006

Boiler House - Naphthalene

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 8.07437E+007	10% of values less than 8.38891E+007	25% of values less than 9.08817E+007
50% of values less than 1.00956E+008	75% of values less than 1.1289E+008	90% of values less than 1.23582E+008
Minimum 7.17799E+0071.28645E+008	Maximum 1.49034E+008	
Mean 1.02516E+008	SD 1.49115E+007	Variance 2.22354E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 2.5618E+008	10% of values less than 2.66245E+008	25% of values less than 2.88621E+008
50% of values less than 3.20861E+008	75% of values less than 3.59048E+008	90% of values less than 3.93263E+008
Minimum 2.27496E+0084.09464E+008	Maximum 4.74709E+008	
Mean 3.25851E+008	SD 4.77169E+007	Variance 2.2769E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - Naphthalene

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 8.07437E+007	10% of values less than 8.38891E+007	25% of values less than 9.08817E+007
50% of values less than 1.00956E+008	75% of values less than 1.1289E+008	90% of values less than 1.23582E+008
Minimum 7.17799E+0071.28645E+008	Maximum 1.49034E+008	
Mean 1.02516E+008	SD 1.49115E+007	Variance 2.22354E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 2.5618E+008	10% of values less than 2.66245E+008	25% of values less than 2.88621E+008
50% of values less than 3.20861E+008	75% of values less than 3.59048E+008	90% of values less than 3.93263E+008
Minimum 2.27496E+0084.09464E+008	Maximum 4.74709E+008	
Mean 3.25851E+008	SD 4.77169E+007	Variance 2.2769E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - Naphthalene

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 8.07437E+007	10% of values less than 8.38891E+007	25% of values less than 9.08817E+007
50% of values less than 1.00956E+008	75% of values less than 1.1289E+008	90% of values less than 1.23582E+008
Minimum 7.17799E+0071.28645E+008	Maximum 1.49034E+008	
Mean 1.02516E+008	SD 1.49115E+007	Variance 2.22354E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 2.5618E+008	10% of values less than 2.66245E+008	25% of values less than 2.88621E+008
50% of values less than 3.20861E+008	75% of values less than 3.59048E+008	90% of values less than 3.93263E+008
Minimum 2.27496E+0084.09464E+008	Maximum 4.74709E+008	
Mean 3.25851E+008	SD 4.77169E+007	Variance 2.2769E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - Naphthalene

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m years

05% of values less than 27.9878	10% of values less than 30.5202	25% of values less than 37.1957
50% of values less than 45.6242	75% of values less than 55.4021	90% of values less than 66.5924
Minimum 21.0373s than 78.9331	Maximum 136.343	
Mean 48.0779	SD 16.122	Variance 259.92

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m years

05% of values less than 55.3814	10% of values less than 60.4089	25% of values less than 73.5715
50% of values less than 90.3851	75% of values less than 109.716	90% of values less than 131.929
Minimum 41.5971s than 156.629	Maximum 270.869	
Mean 95.2291	SD 32.0252	Variance 1025.62

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m years

05% of values less than 175.914	10% of values less than 191.907	25% of values less than 233.529
50% of values less than 287.302	75% of values less than 348.627	90% of values less than 418.875
Minimum 132.06ss than 498.489	Maximum 862.782	
Mean 302.694	SD 102	Variance 10404.1

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m years

05% of values less than 27.9878	10% of values less than 30.5202	25% of values less than 37.1957
50% of values less than 45.6242	75% of values less than 55.4021	90% of values less than 66.5924
Minimum 21.0373s than 78.9331	Maximum 136.343	
Mean 48.0779	SD 16.122	Variance 259.92

Boiler House - Naphthalene

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.59317E-026	90% of values less than 1.39151E-022
Minimum 0.es less than 4.49919E-021	Maximum 1.76294E-017	
Mean 5.4704E-020	SD 7.25109E-019	Variance 5.25783E-037

Boiler House - EC12-EC16 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.51052E-019	90% of values less than 5.49708E-016
Minimum 0.es less than 7.82442E-015	Maximum 5.11249E-012	
Mean 2.07415E-014	SD 2.31481E-013	Variance 5.35833E-026

Boiler House - EC16-EC21 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.04193E-021	90% of values less than 1.87659E-018
Minimum 0.es less than 2.72432E-017	Maximum 5.41797E-014	
Mean 1.61392E-016	SD 2.0931E-015	Variance 4.38105E-030

Boiler House - EC10-EC12 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 3.76223E-025	90% of values less than 3.79014E-021
Minimum 0.es less than 5.88829E-020	Maximum 4.03031E-016	
Mean 5.87263E-019	SD 1.29607E-017	Variance 1.6798E-034

Boiler House - Naphthalene

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m years

05% of values less than 16.868	10% of values less than 19.0286	25% of values less than 24.9004
50% of values less than 33.5097	75% of values less than 42.0299	90% of values less than 49.6248
Minimum 12.0315	Maximum 106.846	
Mean 34.8193	SD 13.5532	Variance 183.69

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045 than 1.0877	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m years

05% of values less than 33.4	10% of values less than 37.7337	25% of values less than 49.3405
50% of values less than 66.375	75% of values less than 83.0409	90% of values less than 98.1389
Minimum 23.7898s than 117.352	Maximum 212.267	
Mean 68.9673	SD 26.9048	Variance 723.867

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045 than 1.0877	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m years

05% of values less than 106.022	10% of values less than 119.997	25% of values less than 156.934
50% of values less than 210.982	75% of values less than 263.56	90% of values less than 311.693
Minimum 75.5266s than 373.647	Maximum 676.122	
Mean 219.219	SD 85.6522	Variance 7336.3

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045 than 1.0877	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m years

05% of values less than 16.868	10% of values less than 19.0286	25% of values less than 24.9004
50% of values less than 33.5097	75% of values less than 42.0299	90% of values less than 49.6248
Minimum 12.0315s than 59.1203	Maximum 106.846	
Mean 34.8193	SD 13.5532	Variance 183.69

Boiler House - Naphthalene

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.00896E-010	10% of values less than 8.04534E-010	25% of values less than 1.5483E-008
50% of values less than 2.87428E-007	75% of values less than 2.07716E-006	90% of values less than 9.56141E-006
Minimum 2.20127E-016 2.19945E-005	Maximum 0.000110155	
Mean 3.62899E-006	SD 9.77873E-006	Variance 9.56237E-011

Boiler House - EC12-EC16 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0.00257474	10% of values less than 0.00430977	25% of values less than 0.00796236
50% of values less than 0.01387	75% of values less than 0.0217324	90% of values less than 0.0306686
Minimum 0.0003242311 0.0347688	Maximum 0.0488826	
Mean 0.0156987	SD 0.00985849	Variance 9.71898E-005

Boiler House - EC16-EC21 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 7.84788E-006	10% of values less than 2.37531E-005	25% of values less than 0.000127566
50% of values less than 0.000469333	75% of values less than 0.00171267	90% of values less than 0.0041118
Minimum 1.08609E-008 0.00598774	Maximum 0.0152484	
Mean 0.00138885	SD 0.00210165	Variance 4.41692E-006

Boiler House - EC10-EC12 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.20868E-009	10% of values less than 7.95636E-009	25% of values less than 2.24875E-007
50% of values less than 3.58249E-006	75% of values less than 2.79628E-005	90% of values less than 0.000144962
Minimum 1.0369E-014n 0.000304002	Maximum 0.00107066	
Mean 4.92201E-005	SD 0.000125831	Variance 1.58334E-008

Boiler House - Naphthalene

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m years

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m years

05% of values less than 65.6755	10% of values less than 71.173	25% of values less than 84.0454
50% of values less than 101.643	75% of values less than 122.508	90% of values less than 148.091
Minimum 49.9158s than 176.871	Maximum 298.245	
Mean 107.497	SD 34.6303	Variance 1199.26

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m years

05% of values less than 208.564	10% of values less than 226.215	25% of values less than 267.053
50% of values less than 322.996	75% of values less than 389.584	90% of values less than 471.015
Minimum 158.47ss than 562.97	Maximum 949.981	
Mean 341.69	SD 110.315	Variance 12169.4

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m years

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Boiler House - Naphthalene

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m years

05% of values less than 4.14521	10% of values less than 6.30025	25% of values less than 11.9759
50% of values less than 19.9873	75% of values less than 27.7501	90% of values less than 33.1532
Minimum 0.871419than 39.7245	Maximum 75.13	
Mean 20.5636	SD 11.3403	Variance 128.603

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m years

05% of values less than 8.1945	10% of values less than 12.4791	25% of values less than 23.6992
50% of values less than 39.6043	75% of values less than 54.9899	90% of values less than 65.8031
Minimum 1.72207s than 78.8434	Maximum 149.258	
Mean 40.7305	SD 22.4901	Variance 505.805

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m years

05% of values less than 26.0114	10% of values less than 39.6661	25% of values less than 75.3519
50% of values less than 125.871	75% of values less than 174.858	90% of values less than 209.463
Minimum 5.46491	Maximum 475.424	
Mean 129.465	SD 71.5495	Variance 5119.34

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m years

05% of values less than 4.14521	10% of values less than 6.30025	25% of values less than 11.9759
50% of values less than 19.9873	75% of values less than 27.7501	90% of values less than 33.1532
Minimum 0.871419than 39.7245	Maximum 75.13	
Mean 20.5636	SD 11.3403	Variance 128.603

Boiler House - Naphthalene

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.87096E-008	10% of values less than 8.27536E-008	25% of values less than 7.75246E-007
50% of values less than 7.2326E-006	75% of values less than 4.66282E-005	90% of values less than 0.000210337
Minimum 1.01068E-012 0.000359112	Maximum 0.001291	
Mean 6.1035E-005	SD 0.00013005	Variance 1.6913E-008

Boiler House - EC12-EC16 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0.00753562	10% of values less than 0.0105443	25% of values less than 0.0167483
50% of values less than 0.0273878	75% of values less than 0.0421588	90% of values less than 0.0578486
Minimum 0.00160887an 0.0641242	Maximum 0.0772241	
Mean 0.0307918	SD 0.0174408	Variance 0.000304182

Boiler House - EC16-EC21 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0.0001427	10% of values less than 0.000295318	25% of values less than 0.00102935
50% of values less than 0.0032566	75% of values less than 0.0115398	90% of values less than 0.0260062
Minimum 1.01471E-006 0.0352068	Maximum 0.0563295	
Mean 0.00843342	SD 0.0113823	Variance 0.000129556

Boiler House - EC10-EC12 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.85914E-007	10% of values less than 8.46193E-007	25% of values less than 1.10956E-005
50% of values less than 8.00704E-005	75% of values less than 0.000581977	90% of values less than 0.0025853
Minimum 7.16814E-011 0.00435366	Maximum 0.015424	
Mean 0.000761175	SD 0.0016045	Variance 2.57441E-006

Boiler House - Naphthalene

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.00576749	10% of values less than 0.0347506	25% of values less than 0.132278
50% of values less than 0.275688	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.00576749	Maximum 1E+006	
Mean 254745	SD 435936	Variance 1.9004E+011

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 0.316103	10% of values less than 1.70933	25% of values less than 6.59507
50% of values less than 14.2527	75% of values less than 3.94982E+007	90% of values less than 5.36034E+007
Minimum 0.00576749	Maximum 7.22262E+007	
Mean 1.32298E+007	SD 2.29142E+007	Variance 5.2506E+014

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.00576749	10% of values less than 0.0347506	25% of values less than 0.132278
50% of values less than 0.275688	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 254745	SD 435936	Variance 1.9004E+011

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 0.625064	10% of values less than 3.38471	25% of values less than 13.0554
50% of values less than 28.181	75% of values less than 7.79964E+007	90% of values less than 1.06207E+008
Minimum 0.es less than 1.15503E+008	Maximum 1.43452E+008	
Mean 2.62049E+007	SD 4.53977E+007	Variance 2.06095E+015

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.00576749	10% of values less than 0.0347506	25% of values less than 0.132278
50% of values less than 0.275688	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 254745	SD 435936	Variance 1.9004E+011

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.98449	10% of values less than 10.7758	25% of values less than 41.4808
50% of values less than 89.5687	75% of values less than 2.47388E+008	90% of values less than 3.37662E+008
Minimum 0.es less than 3.67409E+008	Maximum 4.56848E+008	
Mean 8.32952E+007	SD 1.44325E+008	Variance 2.08298E+016

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.00576749	10% of values less than 0.0347506	25% of values less than 0.132278
50% of values less than 0.275688	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 254745	SD 435936	Variance 1.9004E+011

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 0.316103	10% of values less than 1.70933	25% of values less than 6.59507
50% of values less than 14.2527	75% of values less than 3.94982E+007	90% of values less than 5.36034E+007
Minimum 0.es less than 5.82514E+007	Maximum 7.22262E+007	
Mean 1.32298E+007	SD 2.29142E+007	Variance 5.2506E+014

Boiler House - Naphthalene

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.94747E-005	75% of values less than 0.000184991	90% of values less than 0.000618102
Minimum 0.es less than 0.001291	Maximum 0.001291	
Mean 0.00019098	SD 0.000350871	Variance 1.23111E-007

Boiler House - EC12-EC16 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.037251	75% of values less than 0.0563492	90% of values less than 0.0723528
Minimum 0.05 less than 0.085069	Maximum 0.085069	
Mean 0.035929	SD 0.0267249	Variance 0.000714218

Boiler House - EC16-EC21 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.00777454	75% of values less than 0.023736	90% of values less than 0.0485281
Minimum 0.es less than 0.0636639	Maximum 0.077222	
Mean 0.0164206	SD 0.0207708	Variance 0.000431425

Boiler House - EC10-EC12 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.000379087	75% of values less than 0.00227174	90% of values less than 0.00729255
Minimum 0.es less than 0.015424	Maximum 0.015424	
Mean 0.00225883	SD 0.00417274	Variance 1.74118E-005

Boiler House - Naphthalene

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 21.2697	10% of values less than 23.6506	25% of values less than 30.0436
50% of values less than 38.3767	75% of values less than 47.2344	90% of values less than 56.1864
Minimum 15.6424	Maximum 118.673	
Mean 40.1354	SD 14.5383	Variance 211.362

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 42.0968	10% of values less than 46.8127	25% of values less than 59.4485
50% of values less than 76.002	75% of values less than 93.6714	90% of values less than 111.52
Minimum 30.9297	Maximum 235.764	
Mean 79.4971	SD 28.8687	Variance 833.403

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 133.736	10% of values less than 148.641	25% of values less than 188.757
50% of values less than 241.583	75% of values less than 297.995	90% of values less than 354.989
Minimum 98.1939s	Maximum 750.964	
Mean 252.689	SD 91.9234	Variance 8449.91

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 21.2697	10% of values less than 23.6506	25% of values less than 30.0436
50% of values less than 38.3767	75% of values less than 47.2344	90% of values less than 56.1864
Minimum 15.6424s	Maximum 118.673	
Mean 40.1354	SD 14.5383	Variance 211.362

Boiler House - Naphthalene

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 8.07437E+007	10% of values less than 8.38891E+007	25% of values less than 9.08817E+007
50% of values less than 1.00956E+008	75% of values less than 1.1289E+008	90% of values less than 1.23582E+008
Minimum 7.17799E+0071.28645E+008	Maximum 1.49034E+008	
Mean 1.02516E+008	SD 1.49115E+007	Variance 2.22354E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 2.5618E+008	10% of values less than 2.66245E+008	25% of values less than 2.88621E+008
50% of values less than 3.20861E+008	75% of values less than 3.59048E+008	90% of values less than 3.93263E+008
Minimum 2.27496E+0084.09464E+008	Maximum 4.74709E+008	
Mean 3.25851E+008	SD 4.77169E+007	Variance 2.2769E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - Naphthalene

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 8.07437E+007	10% of values less than 8.38891E+007	25% of values less than 9.08817E+007
50% of values less than 1.00956E+008	75% of values less than 1.1289E+008	90% of values less than 1.23582E+008
Minimum 7.17799E+0071.28645E+008	Maximum 1.49034E+008	
Mean 1.02516E+008	SD 1.49115E+007	Variance 2.22354E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 2.5618E+008	10% of values less than 2.66245E+008	25% of values less than 2.88621E+008
50% of values less than 3.20861E+008	75% of values less than 3.59048E+008	90% of values less than 3.93263E+008
Minimum 2.27496E+0084.09464E+008	Maximum 4.74709E+008	
Mean 3.25851E+008	SD 4.77169E+007	Variance 2.2769E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Boiler House - Naphthalene

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.02771	25% of values less than 0.115557
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 535465	SD 498990	Variance 2.48991E+011

Retarded Travel Time to ETP 50m years

05% of values less than 0	10% of values less than 1.44469	25% of values less than 5.83386
50% of values less than 4.17514E+007	75% of values less than 5.16537E+007	90% of values less than 5.86112E+007
Minimum 0.es less than 6.2289E+007	Maximum 7.22262E+007	
Mean 2.77013E+007	SD 2.63534E+007	Variance 6.94503E+014

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.02771	25% of values less than 0.115557
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 535465	SD 498990	Variance 2.48991E+011

Retarded Travel Time to ETP 50m years

05% of values less than 0	10% of values less than 2.86168	25% of values less than 11.564
50% of values less than 8.25027E+007	75% of values less than 1.02307E+008	90% of values less than 1.16222E+008
Minimum 0.es less than 1.23578E+008	Maximum 1.43452E+008	
Mean 5.48672E+007	SD 5.22181E+007	Variance 2.72673E+015

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.02771	25% of values less than 0.115557
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 535465	SD 498990	Variance 2.48991E+011

Retarded Travel Time to ETP 50m years

05% of values less than 0	10% of values less than 9.09641	25% of values less than 36.7768
50% of values less than 2.61809E+008	75% of values less than 3.25184E+008	90% of values less than 3.69712E+008
Minimum 0.es less than 3.93249E+008	Maximum 4.56848E+008	
Mean 1.74397E+008	SD 1.66023E+008	Variance 2.75637E+016

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.02771	25% of values less than 0.115557
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 535465	SD 498990	Variance 2.48991E+011

Retarded Travel Time to ETP 50m years

05% of values less than 0	10% of values less than 1.44469	25% of values less than 5.83386
50% of values less than 4.17514E+007	75% of values less than 5.16537E+007	90% of values less than 5.86112E+007
Minimum 0.es less than 6.2289E+007	Maximum 7.22262E+007	
Mean 2.77013E+007	SD 2.63534E+007	Variance 6.94503E+014

Boiler House - Naphthalene

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.000232892	90% of values less than 0.000658848
Minimum 0.es less than 0.001291	Maximum 0.001291	
Mean 0.00020161	SD 0.000371276	Variance 1.37846E-007

Boiler House - EC12-EC16 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0586612	90% of values less than 0.0724486
Minimum 0.es less than 0.085069	Maximum 0.085069	
Mean 0.0281642	SD 0.031884	Variance 0.00101659

Boiler House - EC16-EC21 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0263997	90% of values less than 0.0496399
Minimum 0.es less than 0.077222	Maximum 0.077222	
Mean 0.0158651	SD 0.0222794	Variance 0.00049637

Boiler House - EC10-EC12 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00280387	90% of values less than 0.00815274
Minimum 0.00000000	Maximum 0.015424	
Mean 0.00243702	SD 0.00444184	Variance 1.973E-005

Boiler House - Naphthalene

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 953047	SD 211644	Variance 4.47932E+010

Retarded Travel Time to Tank Farm 50m years

05% of values less than 3.68541E+007	10% of values less than 4.10813E+007	25% of values less than 4.54008E+007
50% of values less than 5.05903E+007	75% of values less than 5.66902E+007	90% of values less than 6.22166E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 4.94078E+007	SD 1.31935E+007	Variance 1.74069E+014

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 953047	SD 211644	Variance 4.47932E+010

Retarded Travel Time to Tank Farm 50m years

05% of values less than 7.27081E+007	10% of values less than 8.11626E+007	25% of values less than 8.98016E+007
50% of values less than 1.00181E+008	75% of values less than 1.1238E+008	90% of values less than 1.23433E+008
Minimum 0.es less than 1.28645E+008	Maximum 1.49034E+008	
Mean 9.78626E+007	SD 2.62113E+007	Variance 6.87031E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 953047	SD 211644	Variance 4.47932E+010

Retarded Travel Time to Tank Farm 50m years

05% of values less than 2.30466E+008	10% of values less than 2.5752E+008	25% of values less than 2.85165E+008
50% of values less than 3.18378E+008	75% of values less than 3.57417E+008	90% of values less than 3.92786E+008
Minimum 0.es less than 4.09464E+008	Maximum 4.74709E+008	
Mean 3.11064E+008	SD 8.34904E+007	Variance 6.97065E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 953047	SD 211644	Variance 4.47932E+010

Retarded Travel Time to Tank Farm 50m years

05% of values less than 3.68541E+007	10% of values less than 4.10813E+007	25% of values less than 4.54008E+007
50% of values less than 5.05903E+007	75% of values less than 5.66902E+007	90% of values less than 6.22166E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 4.94078E+007	SD 1.31935E+007	Variance 1.74069E+014

Boiler House - Naphthalene

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.001291	
Mean 6.06164E-005	SD 0.000273232	Variance 7.4656E-008

Boiler House - EC12-EC16 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.085069	
Mean 0.00384662	SD 0.0176413	Variance 0.000311217

Boiler House - EC16-EC21 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.077222	
Mean 0.0027197	SD 0.0139855	Variance 0.000195594

Boiler House - EC10-EC12 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.015424	
Mean 0.000724204	SD 0.0032644	Variance 1.06563E-005

Boiler House - Naphthalene

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor years

05% of values less than 97.1112	10% of values less than 102.008	25% of values less than 110.913
50% of values less than 125.59	75% of values less than 145.587	90% of values less than 180.741
Minimum 80.0946s than 221.91	Maximum 329.777	
Mean 135.023	SD 36.834	Variance 1356.75

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor years

05% of values less than 192.167	10% of values less than 201.938	25% of values less than 219.607
50% of values less than 248.661	75% of values less than 288.624	90% of values less than 358.288
Minimum 158.371s than 440.232	Maximum 655.158	
Mean 267.445	SD 73.2618	Variance 5367.29

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor years

05% of values less than 610.358	10% of values less than 641.669	25% of values less than 697.831
50% of values less than 790.122	75% of values less than 917.484	90% of values less than 1139.66
Minimum 502.787s than 1400.85	Maximum 2086.83	
Mean 850.098	SD 233.546	Variance 54543.9

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor years

05% of values less than 97.1112	10% of values less than 102.008	25% of values less than 110.913
50% of values less than 125.59	75% of values less than 145.587	90% of values less than 180.741
Minimum 80.0946s than 221.91	Maximum 329.777	
Mean 135.023	SD 36.834	Variance 1356.75

Boiler House - Naphthalene

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 5.02282E-029	25% of values less than 3.83189E-025
50% of values less than 1.79588E-021	75% of values less than 1.14009E-018	90% of values less than 1.15417E-016
Minimum 0.es less than 1.5144E-015	Maximum 1.40802E-012	
Mean 3.15703E-015	SD 5.0679E-014	Variance 2.56836E-027

Boiler House - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 5.159E-012	10% of values less than 2.51287E-011	25% of values less than 3.38731E-010
50% of values less than 1.78868E-008	75% of values less than 4.27317E-007	90% of values less than 2.13525E-006
Minimum 5.63154E-015 4.84407E-006	Maximum 3.94688E-005	
Mean 9.57545E-007	SD 3.21747E-006	Variance 1.03521E-011

Boiler House - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.57373E-019	10% of values less than 5.49339E-018	25% of values less than 4.09491E-016
50% of values less than 5.45278E-014	75% of values less than 3.2369E-012	90% of values less than 8.69116E-011
Minimum 1.12404E-027 3.82543E-010	Maximum 2.20069E-008	
Mean 1.23151E-010	SD 9.02922E-010	Variance 8.15268E-019

Boiler House - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 4.40703E-028	25% of values less than 6.22271E-024
50% of values less than 2.34718E-020	75% of values less than 3.18429E-017	90% of values less than 2.55188E-015
Minimum 0.es less than 2.35609E-014	Maximum 4.52193E-012	
Mean 1.97814E-014	SD 2.0149E-013	Variance 4.05981E-026

Boiler House - Naphthalene

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 101.314	10% of values less than 106.335	25% of values less than 115.318
50% of values less than 130.32	75% of values less than 151.247	90% of values less than 187.785
Minimum 83.7379s than 231.004	Maximum 341.71	
Mean 140.387	SD 38.1881	Variance 1458.33

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 200.368	10% of values less than 210.625	25% of values less than 228.23
50% of values less than 258.105	75% of values less than 299.736	90% of values less than 372.283
Minimum 165.575s than 458.274	Maximum 678.865	
Mean 278.069	SD 75.9567	Variance 5769.42

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 636.465	10% of values less than 669.499	25% of values less than 725.582
50% of values less than 819.565	75% of values less than 953.466	90% of values less than 1184.08
Minimum 525.657s than 1458.26	Maximum 2162.35	
Mean 883.868	SD 242.141	Variance 58632.2

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 101.314	10% of values less than 106.335	25% of values less than 115.318
50% of values less than 130.32	75% of values less than 151.247	90% of values less than 187.785
Minimum 83.7379s than 231.004	Maximum 341.71	
Mean 140.387	SD 38.1881	Variance 1458.33

Boiler House - Naphthalene

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 2.36662E-028	10% of values less than 4.97693E-026	25% of values less than 5.93839E-022
50% of values less than 3.70737E-018	75% of values less than 1.42918E-015	90% of values less than 6.76332E-014
Minimum 0.es less than 3.73265E-013	Maximum 1.98858E-010	
Mean 4.89901E-013	SD 7.45617E-012	Variance 5.55945E-023

Boiler House - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 4.93935E-007	10% of values less than 1.86823E-006	25% of values less than 1.20852E-005
50% of values less than 5.74232E-005	75% of values less than 0.000189876	90% of values less than 0.000450855
Minimum 1.68231E-009 0.000664824	Maximum 0.00239728	
Mean 0.000153018	SD 0.000230951	Variance 5.33381E-008

Boiler House - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 9.81238E-016	10% of values less than 2.02976E-014	25% of values less than 4.09052E-012
50% of values less than 1.80024E-010	75% of values less than 3.92601E-009	90% of values less than 2.6884E-008
Minimum 9.33091E-024 7.53067E-008	Maximum 1.87937E-006	
Mean 1.72749E-008	SD 8.71195E-008	Variance 7.58981E-015

Boiler House - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.53889E-027	10% of values less than 5.06565E-025	25% of values less than 6.80163E-021
50% of values less than 5.3717E-017	75% of values less than 2.9958E-014	90% of values less than 1.71748E-012
Minimum 0.es less than 7.39463E-012	Maximum 6.02199E-010	
Mean 3.05247E-012	SD 2.5454E-011	Variance 6.47906E-022

Source Inventory:

EC12-EC16 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.037115)

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.074038)

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.006596)

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.915594	10% of values less than 0.96486	25% of values less than 1.06355
50% of values less than 1.18755	75% of values less than 1.39744	90% of values less than 1.64126
Minimum 0.801055	Maximum 2.32033	
Mean 1.24871	SD 0.261298	Variance 0.0682766

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 89.0242	10% of values less than 95.2354	25% of values less than 104.153
50% of values less than 120.104	75% of values less than 140.336	90% of values less than 174.978
Minimum 73.1964s	Maximum 345.808	
Mean 128.294	SD 36.2394	Variance 1313.29

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.915594	10% of values less than 0.96486	25% of values less than 1.06355
50% of values less than 1.18755	75% of values less than 1.39744	90% of values less than 1.64126
Minimum 0.801055	Maximum 2.32033	
Mean 1.24871	SD 0.261298	Variance 0.0682766

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 282.648	10% of values less than 302.406	25% of values less than 330.659
50% of values less than 381.64	75% of values less than 445.903	90% of values less than 556.827
Minimum 232.26	Maximum 1101.48	
Mean 407.794	SD 115.501	Variance 13340.4

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.915594	10% of values less than 0.96486	25% of values less than 1.06355
50% of values less than 1.18755	75% of values less than 1.39744	90% of values less than 1.64126
Minimum 0.801055	Maximum 2.32033	
Mean 1.24871	SD 0.261298	Variance 0.0682766

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 45.0188	10% of values less than 48.0967	25% of values less than 52.6355
50% of values less than 60.6123	75% of values less than 70.8918	90% of values less than 88.1646
Minimum 37.0457s	Maximum 174.064	
Mean 64.7714	SD 18.2257	Variance 332.175

ETP - EC12-EC16 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 6.28484E-022	90% of values less than 5.41099E-020
Minimum 0.es less than 4.89431E-019	Maximum 1.63922E-017	
Mean 1.36807E-019	SD 8.79149E-019	Variance 7.72902E-037

ETP - EC16-EC21 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 2.16617E-024	90% of values less than 2.54975E-022
Minimum 0.es less than 1.67106E-021	Maximum 4.09025E-019	
Mean 1.37801E-021	SD 1.69161E-020	Variance 2.86154E-040

ETP - EC10-EC12 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.39263E-028	90% of values less than 6.73109E-026
Minimum 0.es less than 1.03021E-024	Maximum 2.00507E-021	
Mean 3.03671E-024	SD 6.43713E-023	Variance 4.14367E-045

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB years

05% of values less than 120.171	10% of values less than 127.316	25% of values less than 138.36
50% of values less than 157.607	75% of values less than 182.692	90% of values less than 229.507
Minimum 100.827s than 271.366	Maximum 436.805	
Mean 169.074	SD 46.4032	Variance 2153.25

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB years

05% of values less than 381.442	10% of values less than 404.266	25% of values less than 439.94
50% of values less than 500.339	75% of values less than 581.141	90% of values less than 729.978
Minimum 319.934s than 863.918	Maximum 1391.33	
Mean 537.417	SD 147.917	Variance 21879.5

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB years

05% of values less than 60.7913	10% of values less than 64.3331	25% of values less than 69.8661
50% of values less than 79.5907	75% of values less than 92.1529	90% of values less than 115.739
Minimum 51.0298s than 136.695	Maximum 219.868	
Mean 85.3597	SD 23.3321	Variance 544.388

ETP - EC12-EC16 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC16-EC21 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC10-EC12 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.698398	10% of values less than 0.747095	25% of values less than 0.84267
50% of values less than 0.947523	75% of values less than 1.11431	90% of values less than 1.31636
Minimum 0.597334	Maximum 1.92998	
Mean 0.995111	SD 0.221964	Variance 0.0492679

Retarded Travel Time to Boiler House Receptor years

05% of values less than 68.5166	10% of values less than 73.5741	25% of values less than 82.5302
50% of values less than 95.5565	75% of values less than 112.707	90% of values less than 138.23
Minimum 55.5321	Maximum 287.632	
Mean 102.223	SD 29.9463	Variance 896.778

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.698398	10% of values less than 0.747095	25% of values less than 0.84267
50% of values less than 0.947523	75% of values less than 1.11431	90% of values less than 1.31636
Minimum 0.597334 than 1.4242	Maximum 1.92998	
Mean 0.995111	SD 0.221964	Variance 0.0492679

Retarded Travel Time to Boiler House Receptor years

05% of values less than 217.466	10% of values less than 233.763	25% of values less than 262.08
50% of values less than 303.688	75% of values less than 358.22	90% of values less than 440.129
Minimum 176.209s than 523.67	Maximum 916.177	
Mean 324.925	SD 95.4265	Variance 9106.22

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.698398	10% of values less than 0.747095	25% of values less than 0.84267
50% of values less than 0.947523	75% of values less than 1.11431	90% of values less than 1.31636
Minimum 0.597334 than 1.4242	Maximum 1.92998	
Mean 0.995111	SD 0.221964	Variance 0.0492679

Retarded Travel Time to Boiler House Receptor years

05% of values less than 34.6226	10% of values less than 37.1907	25% of values less than 41.7121
50% of values less than 48.2158	75% of values less than 56.908	90% of values less than 69.8793
Minimum 28.1056s than 82.8697	Maximum 144.781	
Mean 51.6092	SD 15.0646	Variance 226.942

ETP - EC12-EC16 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.000367678	10% of values less than 0.000588662	25% of values less than 0.00128485
50% of values less than 0.00229358	75% of values less than 0.00381266	90% of values less than 0.00524524
Minimum 1.73774E-005 0.00610342	Maximum 0.00906144	
Mean 0.00267906	SD 0.00181985	Variance 3.31184E-006

ETP - EC16-EC21 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 3.19414E-007	10% of values less than 1.60671E-006	25% of values less than 8.58036E-006
50% of values less than 4.02665E-005	75% of values less than 0.000141704	90% of values less than 0.000335262
Minimum 5.90195E-011 0.000524031	Maximum 0.0015747	
Mean 0.000123166	SD 0.000209518	Variance 4.3898E-008

ETP - EC10-EC12 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 3.57816E-012	10% of values less than 2.77722E-011	25% of values less than 7.35126E-010
50% of values less than 2.94845E-008	75% of values less than 2.87622E-007	90% of values less than 1.32848E-006
Minimum 5.10119E-017 2.39248E-006	Maximum 1.67121E-005	
Mean 4.59499E-007	SD 1.23256E-006	Variance 1.5192E-012

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.25686	75% of values less than 0.351952	90% of values less than 0.435466
Minimum 0.00486221	Maximum 0.800376	
Mean 0.261241	SD 0.134134	Variance 0.017992

Retarded Travel Time to ETP Receptor years

05% of values less than 5.92486	10% of values less than 8.22417	25% of values less than 15.5117
50% of values less than 25.7623	75% of values less than 35.8046	90% of values less than 44.0727
Minimum 0.47254s	Maximum 119.283	
Mean 26.7794	SD 14.8632	Variance 220.913

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.25686	75% of values less than 0.351952	90% of values less than 0.435466
Minimum 0.00486221	Maximum 0.800376	
Mean 0.261241	SD 0.134134	Variance 0.017992

Retarded Travel Time to ETP Receptor years

05% of values less than 18.8158	10% of values less than 26.1115	25% of values less than 49.2286
50% of values less than 81.8668	75% of values less than 113.919	90% of values less than 140.213
Minimum 1.50143s	Maximum 379.946	
Mean 85.1193	SD 47.284	Variance 2235.77

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.25686	75% of values less than 0.351952	90% of values less than 0.435466
Minimum 0.00486221	Maximum 0.800376	
Mean 0.261241	SD 0.134134	Variance 0.017992

Retarded Travel Time to ETP Receptor years

05% of values less than 2.99509	10% of values less than 4.15887	25% of values less than 7.85188
50% of values less than 12.9961	75% of values less than 18.1098	90% of values less than 22.2538
Minimum 0.238701	Maximum 60.0418	
Mean 13.5203	SD 7.49485	Variance 56.1727

ETP - EC12-EC16 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0.00662319	10% of values less than 0.00843344	25% of values less than 0.0116263
50% of values less than 0.0165638	75% of values less than 0.0223429	90% of values less than 0.0280306
Minimum 0.00185731an 0.0304	Maximum 0.037115	
Mean 0.0173185	SD 0.00720359	Variance 5.18918E-005

ETP - EC16-EC21 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0.0011511	10% of values less than 0.00171861	25% of values less than 0.00367758
50% of values less than 0.00849308	75% of values less than 0.0183051	90% of values less than 0.0333253
Minimum 3.05341E-005 0.0415622	Maximum 0.0616579	
Mean 0.0131394	SD 0.0128044	Variance 0.000163953

ETP - EC10-EC12 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 3.46927E-006	10% of values less than 9.68084E-006	25% of values less than 4.599E-005
50% of values less than 0.000199476	75% of values less than 0.000696237	90% of values less than 0.00170202
Minimum 4.18979E-008 0.00232332	Maximum 0.006596	
Mean 0.000568053	SD 0.000900828	Variance 8.1149E-007

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0	10% of values less than 0.0129741	25% of values less than 0.0633908
50% of values less than 0.165283	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 381618	SD 486026	Variance 2.36222E+011

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0	10% of values less than 1.24269	25% of values less than 6.45299
50% of values less than 16.6945	75% of values less than 9.62303E+007	90% of values less than 1.11317E+008
Minimum 0.es less than 1.20985E+008	Maximum 1.46062E+008	
Mean 3.92353E+007	SD 5.07785E+007	Variance 2.57846E+015

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0	10% of values less than 0.0129741	25% of values less than 0.0633908
50% of values less than 0.165283	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 381618	SD 486026	Variance 2.36222E+011

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0	10% of values less than 3.95026	25% of values less than 20.5142
50% of values less than 53.0304	75% of values less than 3.05737E+008	90% of values less than 3.54013E+008
Minimum 0.es less than 3.84951E+008	Maximum 4.65198E+008	
Mean 1.24713E+008	SD 1.61439E+008	Variance 2.60626E+016

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0	10% of values less than 0.0129741	25% of values less than 0.0633908
50% of values less than 0.165283	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 381618	SD 486026	Variance 2.36222E+011

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0	10% of values less than 0.62733	25% of values less than 3.25727
50% of values less than 8.42004	75% of values less than 4.86151E+007	90% of values less than 5.61583E+007
Minimum 0.es less than 6.09924E+007	Maximum 7.3531E+007	
Mean 1.98085E+007	SD 2.56284E+007	Variance 6.56817E+014

ETP - EC12-EC16 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 7.20551E-011	90% of values less than 1.15852E-005
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00344848	SD 0.0107799	Variance 0.000116206

ETP - EC16-EC21 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.45581E-011	90% of values less than 1.05773E-006
Minimum 0.es less than 0.074038	Maximum 0.074038	
Mean 0.00576942	SD 0.0198557	Variance 0.000394247

ETP - EC10-EC12 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.16114E-011	90% of values less than 0.006596
Minimum 0.es less than 0.006596	Maximum 0.006596	
Mean 0.000797328	SD 0.00215128	Variance 4.62801E-006

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0	10% of values less than 0.0217902	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 783217	SD 412260	Variance 1.69958E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0	10% of values less than 2.06642	25% of values less than 7.97646E+007
50% of values less than 9.62014E+007	75% of values less than 1.09403E+008	90% of values less than 1.21636E+008
Minimum 0.es less than 1.27579E+008	Maximum 1.46062E+008	
Mean 8.04473E+007	SD 4.43649E+007	Variance 1.96824E+015

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0	10% of values less than 0.0217902	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 783217	SD 412260	Variance 1.69958E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0	10% of values less than 6.56493	25% of values less than 2.53047E+008
50% of values less than 3.05644E+008	75% of values less than 3.47891E+008	90% of values less than 3.87036E+008
Minimum 0.es less than 4.06051E+008	Maximum 4.65198E+008	
Mean 2.55708E+008	SD 1.41102E+008	Variance 1.99098E+016

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0	10% of values less than 0.0217902	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 783217	SD 412260	Variance 1.69958E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0	10% of values less than 1.04404	25% of values less than 4.03823E+007
50% of values less than 4.86007E+007	75% of values less than 5.52017E+007	90% of values less than 6.13182E+007
Minimum 0.es less than 6.42893E+007	Maximum 7.3531E+007	
Mean 4.06153E+007	SD 2.23793E+007	Variance 5.00832E+014

ETP - EC12-EC16 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00289208	SD 0.00995361	Variance 9.90743E-005

ETP - EC16-EC21 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.074038	Maximum 0.074038	
Mean 0.0047337	SD 0.0181216	Variance 0.000328394

ETP - EC10-EC12 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.006596	Maximum 0.006596	
Mean 0.000632583	SD 0.00194323	Variance 3.77613E-006

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0353379	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 885115	SD 319043	Variance 1.01788E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 3.64192	25% of values less than 8.75185E+007
50% of values less than 9.8466E+007	75% of values less than 1.11196E+008	90% of values less than 1.22989E+008
Minimum 0.es less than 1.28171E+008	Maximum 1.46062E+008	
Mean 9.09966E+007	SD 3.56663E+007	Variance 1.27208E+015

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0353379	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 885115	SD 319043	Variance 1.01788E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 11.5623	25% of values less than 2.77859E+008
50% of values less than 3.12891E+008	75% of values less than 3.53627E+008	90% of values less than 3.91365E+008
Minimum 0.es less than 4.07946E+008	Maximum 4.65198E+008	
Mean 2.89242E+008	SD 1.13487E+008	Variance 1.28793E+016

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0353379	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 885115	SD 319043	Variance 1.01788E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 1.84182	25% of values less than 4.42593E+007
50% of values less than 4.9733E+007	75% of values less than 5.60979E+007	90% of values less than 6.19945E+007
Minimum 0.es less than 6.45854E+007	Maximum 7.3531E+007	
Mean 4.59409E+007	SD 1.798E+007	Variance 3.23279E+014

ETP - EC12-EC16 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00266961	SD 0.00959415	Variance 9.20477E-005

ETP - EC16-EC21 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.074038	Maximum 0.074038	
Mean 0.00451181	SD 0.0177201	Variance 0.000314002

ETP - EC10-EC12 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.006596	Maximum 0.006596	
Mean 0.000546921	SD 0.0018198	Variance 3.31168E-006

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.14924	10% of values less than 1.2006	25% of values less than 1.30395
50% of values less than 1.44682	75% of values less than 1.70301	90% of values less than 1.98454
Minimum 1.02385s than 2.13245	Maximum 2.74722	
Mean 1.52605	SD 0.30641	Variance 0.0938871

Retarded Travel Time to VC MFB 50m years

05% of values less than 110.768	10% of values less than 117.516	25% of values less than 127.937
50% of values less than 146.304	75% of values less than 169.716	90% of values less than 212.223
Minimum 92.5144s than 251.277	Maximum 409.429	
Mean 156.806	SD 43.3172	Variance 1876.38

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.14924	10% of values less than 1.2006	25% of values less than 1.30395
50% of values less than 1.44682	75% of values less than 1.70301	90% of values less than 1.98454
Minimum 1.02385s than 2.13245	Maximum 2.74722	
Mean 1.52605	SD 0.30641	Variance 0.0938871

Retarded Travel Time to VC MFB 50m years

05% of values less than 352.091	10% of values less than 373.182	25% of values less than 405.991
50% of values less than 465.261	75% of values less than 539.51	90% of values less than 675.259
Minimum 293.557s than 799.962	Maximum 1304.13	
Mean 498.421	SD 138.075	Variance 19064.8

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.14924	10% of values less than 1.2006	25% of values less than 1.30395
50% of values less than 1.44682	75% of values less than 1.70301	90% of values less than 1.98454
Minimum 1.02385s than 2.13245	Maximum 2.74722	
Mean 1.52605	SD 0.30641	Variance 0.0938871

Retarded Travel Time to VC MFB 50m years

05% of values less than 55.9812	10% of values less than 59.362	25% of values less than 64.6849
50% of values less than 73.798	75% of values less than 85.5725	90% of values less than 107.056
Minimum 46.8228s than 126.575	Maximum 206.088	
Mean 79.1658	SD 21.7816	Variance 474.436

ETP - EC12-EC16 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.95411E-022	75% of values less than 2.75382E-020	90% of values less than 1.38405E-018
Minimum 0.es less than 7.70719E-018	Maximum 1.8799E-016	
Mean 1.95395E-018	SD 1.11628E-017	Variance 1.24607E-034

ETP - EC16-EC21 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.57465E-025	75% of values less than 3.93542E-023	90% of values less than 1.91764E-021
Minimum 0.es less than 1.14812E-020	Maximum 2.20093E-018	
Mean 8.03888E-021	SD 9.68061E-020	Variance 9.37142E-039

ETP - EC10-EC12 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 1.02448E-030	75% of values less than 2.31044E-027	90% of values less than 2.60252E-025
Minimum 0.es less than 2.98424E-024	Maximum 6.54665E-021	
Mean 9.80296E-024	SD 2.09876E-022	Variance 4.40479E-044

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.934612	10% of values less than 0.983627	25% of values less than 1.08274
50% of values less than 1.20797	75% of values less than 1.42033	90% of values less than 1.66843
Minimum 0.818634 than 1.78731	Maximum 2.35401	
Mean 1.27059	SD 0.264791	Variance 0.0701144

Retarded Travel Time to Boiler House 50m years

05% of values less than 90.6503	10% of values less than 97.0708	25% of values less than 106.001
50% of values less than 121.986	75% of values less than 142.592	90% of values less than 178.237
Minimum 74.7207s than 209.995	Maximum 350.828	
Mean 130.544	SD 36.7918	Variance 1353.64

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.934612	10% of values less than 0.983627	25% of values less than 1.08274
50% of values less than 1.20797	75% of values less than 1.42033	90% of values less than 1.66843
Minimum 0.818634 than 1.78731	Maximum 2.35401	
Mean 1.27059	SD 0.264791	Variance 0.0701144

Retarded Travel Time to Boiler House 50m years

05% of values less than 287.811	10% of values less than 308.024	25% of values less than 336.666
50% of values less than 387.814	75% of values less than 453.351	90% of values less than 567.513
Minimum 237.096s than 668.491	Maximum 1117.47	
Mean 414.945	SD 117.263	Variance 13750.6

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.934612	10% of values less than 0.983627	25% of values less than 1.08274
50% of values less than 1.20797	75% of values less than 1.42033	90% of values less than 1.66843
Minimum 0.818634 than 1.78731	Maximum 2.35401	
Mean 1.27059	SD 0.264791	Variance 0.0701144

Retarded Travel Time to Boiler House 50m years

05% of values less than 45.8412	10% of values less than 49.059	25% of values less than 53.5275
50% of values less than 61.6088	75% of values less than 72.0246	90% of values less than 89.7652
Minimum 37.8172s than 105.792	Maximum 176.591	
Mean 65.9072	SD 18.5032	Variance 342.368

ETP - EC12-EC16 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0.00011462	10% of values less than 0.000219294	25% of values less than 0.000527356
50% of values less than 0.00109446	75% of values less than 0.00199208	90% of values less than 0.00289273
Minimum 3.08964E-006 0.00343397	Maximum 0.00544261	
Mean 0.0013724	SD 0.00107755	Variance 1.1611E-006

ETP - EC16-EC21 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.53222E-008	10% of values less than 8.88282E-008	25% of values less than 7.86479E-007
50% of values less than 5.25563E-006	75% of values less than 2.4288E-005	90% of values less than 6.69007E-005
Minimum 4.50654E-013 0.000111191	Maximum 0.000372775	
Mean 2.45033E-005	SD 4.89491E-005	Variance 2.39602E-009

ETP - EC10-EC12 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 2.04759E-014	10% of values less than 1.83656E-013	25% of values less than 9.47853E-012
50% of values less than 9.51345E-010	75% of values less than 1.90294E-008	90% of values less than 1.13093E-007
Minimum 9.3009E-021n 2.25874E-007	Maximum 1.82115E-006	
Mean 4.25108E-008	SD 1.36208E-007	Variance 1.85526E-014

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB 50m years

05% of values less than 120.171	10% of values less than 127.316	25% of values less than 138.36
50% of values less than 157.607	75% of values less than 182.692	90% of values less than 229.507
Minimum 100.827s than 271.366	Maximum 436.805	
Mean 169.074	SD 46.4032	Variance 2153.25

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB 50m years

05% of values less than 381.442	10% of values less than 404.266	25% of values less than 439.94
50% of values less than 500.339	75% of values less than 581.141	90% of values less than 729.978
Minimum 319.934s than 863.918	Maximum 1391.33	
Mean 537.417	SD 147.917	Variance 21879.5

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.25127	10% of values less than 1.30223	25% of values less than 1.41089
50% of values less than 1.55776	75% of values less than 1.82972	90% of values less than 2.13385
Minimum 1.11971s than 2.29487	Maximum 2.93091	
Mean 1.64539	SD 0.326278	Variance 0.106457

Retarded Travel Time to Lead MFB 50m years

05% of values less than 60.7913	10% of values less than 64.3331	25% of values less than 69.8661
50% of values less than 79.5907	75% of values less than 92.1529	90% of values less than 115.739
Minimum 51.0298s than 136.695	Maximum 219.868	
Mean 85.3597	SD 23.3321	Variance 544.388

ETP - EC12-EC16 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC16-EC21 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC10-EC12 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.699051	10% of values less than 0.747812	25% of values less than 0.843374
50% of values less than 0.948224	75% of values less than 1.11521	90% of values less than 1.31743
Minimum 0.597989	Maximum 1.93123	
Mean 0.995925	SD 0.222086	Variance 0.0493222

Retarded Travel Time to BH Lead 50m years

05% of values less than 68.5742	10% of values less than 73.651	25% of values less than 82.594
50% of values less than 95.6364	75% of values less than 112.784	90% of values less than 138.348
Minimum 55.5889	Maximum 287.819	
Mean 102.307	SD 29.9661	Variance 897.966

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.699051	10% of values less than 0.747812	25% of values less than 0.843374
50% of values less than 0.948224	75% of values less than 1.11521	90% of values less than 1.31743
Minimum 0.597989	Maximum 1.93123	
Mean 0.995925	SD 0.222086	Variance 0.0493222

Retarded Travel Time to BH Lead 50m years

05% of values less than 217.648	10% of values less than 233.984	25% of values less than 262.325
50% of values less than 303.906	75% of values less than 358.465	90% of values less than 440.506
Minimum 176.389	Maximum 916.772	
Mean 325.192	SD 95.4898	Variance 9118.29

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.699051	10% of values less than 0.747812	25% of values less than 0.843374
50% of values less than 0.948224	75% of values less than 1.11521	90% of values less than 1.31743
Minimum 0.597989	Maximum 1.93123	
Mean 0.995925	SD 0.222086	Variance 0.0493222

Retarded Travel Time to BH Lead 50m years

05% of values less than 34.6573	10% of values less than 37.2276	25% of values less than 41.746
50% of values less than 48.2649	75% of values less than 56.9469	90% of values less than 69.9283
Minimum 28.1343	Maximum 144.875	
Mean 51.6515	SD 15.0746	Variance 227.242

ETP - EC12-EC16 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0.000344027	10% of values less than 0.00058565	25% of values less than 0.00123448
50% of values less than 0.00223586	75% of values less than 0.00361271	90% of values less than 0.0050504
Minimum 1.89651E-005 0.0058866	Maximum 0.00866557	
Mean 0.00259191	SD 0.00176528	Variance 3.11621E-006

ETP - EC16-EC21 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.41729E-007	10% of values less than 1.50466E-006	25% of values less than 8.38935E-006
50% of values less than 3.93447E-005	75% of values less than 0.000136513	90% of values less than 0.000310234
Minimum 6.38148E-011 0.000492793	Maximum 0.00143752	
Mean 0.000117239	SD 0.000198871	Variance 3.95498E-008

ETP - EC10-EC12 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.37148E-012	10% of values less than 2.58331E-011	25% of values less than 6.83141E-010
50% of values less than 2.77074E-008	75% of values less than 2.77894E-007	90% of values less than 1.2361E-006
Minimum 5.65716E-017	2.23634E-006	Maximum 1.5547E-005
Mean 4.32865E-007	SD 1.1647E-006	Variance 1.35652E-012

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.462943	10% of values less than 0.505807	25% of values less than 0.596393
50% of values less than 0.694085	75% of values less than 0.824336	90% of values less than 0.972901
Minimum 0.376688 than 1.06516	Maximum 1.50719	
Mean 0.720441	SD 0.182843	Variance 0.0334316

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 45.7861	10% of values less than 50.4796	25% of values less than 58.3376
50% of values less than 69.7104	75% of values less than 83.6743	90% of values less than 100.525
Minimum 36.4002s than 119.292	Maximum 224.623	
Mean 73.9865	SD 23.4877	Variance 551.67

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.462943	10% of values less than 0.505807	25% of values less than 0.596393
50% of values less than 0.694085	75% of values less than 0.824336	90% of values less than 0.972901
Minimum 0.376688 than 1.06516	Maximum 1.50719	
Mean 0.720441	SD 0.182843	Variance 0.0334316

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 145.559	10% of values less than 160.448	25% of values less than 185.412
50% of values less than 221.44	75% of values less than 266.162	90% of values less than 319.959
Minimum 115.501s than 379.584	Maximum 715.478	
Mean 235.172	SD 74.8195	Variance 5597.95

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.462943	10% of values less than 0.505807	25% of values less than 0.596393
50% of values less than 0.694085	75% of values less than 0.824336	90% of values less than 0.972901
Minimum 0.376688 than 1.06516	Maximum 1.50719	
Mean 0.720441	SD 0.182843	Variance 0.0334316

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 23.1105	10% of values less than 25.5189	25% of values less than 29.4485
50% of values less than 35.2008	75% of values less than 42.1563	90% of values less than 50.654
Minimum 18.4226s than 60.1352	Maximum 113.065	
Mean 37.3535	SD 11.8215	Variance 139.748

ETP - EC12-EC16 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.00119359	10% of values less than 0.00168178	25% of values less than 0.00297602
50% of values less than 0.00477069	75% of values less than 0.00722473	90% of values less than 0.00952558
Minimum 0.0001081331 0.0107811	Maximum 0.0145991	
Mean 0.00524088	SD 0.00298363	Variance 8.90202E-006

ETP - EC16-EC21 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 7.54745E-006	10% of values less than 2.36042E-005	25% of values less than 8.35302E-005
50% of values less than 0.000299415	75% of values less than 0.000814184	90% of values less than 0.00165213
Minimum 8.4723E-009n 0.0024207	Maximum 0.00621298	
Mean 0.000639865	SD 0.000891676	Variance 7.95086E-007

ETP - EC10-EC12 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 7.34017E-010	10% of values less than 3.73129E-009	25% of values less than 5.03916E-008
50% of values less than 8.62841E-007	75% of values less than 4.65387E-006	90% of values less than 1.59565E-005
Minimum 1.32977E-013 2.44168E-005	Maximum 0.000143697	
Mean 5.3165E-006	SD 1.17055E-005	Variance 1.37019E-010

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.0202	10% of values less than 1.07208	25% of values less than 1.17079
50% of values less than 1.30175	75% of values less than 1.53133	90% of values less than 1.79332
Minimum 0.900915 than 1.92158	Maximum 2.51167	
Mean 1.37302	SD 0.281306	Variance 0.0791329

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 98.4607	10% of values less than 105.29	25% of values less than 114.539
50% of values less than 131.689	75% of values less than 153.315	90% of values less than 191.585
Minimum 81.8552s than 226.914	Maximum 374.324	
Mean 141.074	SD 39.3926	Variance 1551.78

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.0202	10% of values less than 1.07208	25% of values less than 1.17079
50% of values less than 1.30175	75% of values less than 1.53133	90% of values less than 1.79332
Minimum 0.900915 than 1.92158	Maximum 2.51167	
Mean 1.37302	SD 0.281306	Variance 0.0791329

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 313.044	10% of values less than 334.311	25% of values less than 363.832
50% of values less than 418.707	75% of values less than 487.431	90% of values less than 609.34
Minimum 259.735s than 722.562	Maximum 1192.31	
Mean 448.415	SD 125.558	Variance 15764.9

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.0202	10% of values less than 1.07208	25% of values less than 1.17079
50% of values less than 1.30175	75% of values less than 1.53133	90% of values less than 1.79332
Minimum 0.900915 than 1.92158	Maximum 2.51167	
Mean 1.37302	SD 0.281306	Variance 0.0791329

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 49.7146	10% of values less than 53.2394	25% of values less than 57.9023
50% of values less than 66.469	75% of values less than 77.3823	90% of values less than 96.6754
Minimum 41.428ss than 114.333	Maximum 188.418	
Mean 71.2233	SD 19.8098	Variance 392.428

ETP - EC12-EC16 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC16-EC21 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC10-EC12 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0	10% of values less than 0.0126891	25% of values less than 0.0737988
50% of values less than 0.164398	75% of values less than 0.28873	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 204795	SD 403754	Variance 1.63017E+011

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0	10% of values less than 1.29323	25% of values less than 7.34067
50% of values less than 16.8541	75% of values less than 30.428	90% of values less than 1.01327E+008
Minimum 0.es less than 1.11686E+008	Maximum 1.46062E+008	
Mean 2.09859E+007	SD 4.19123E+007	Variance 1.75664E+015

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0	10% of values less than 0.0126891	25% of values less than 0.0737988
50% of values less than 0.164398	75% of values less than 0.28873	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 204795	SD 403754	Variance 1.63017E+011

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0	10% of values less than 4.10786	25% of values less than 23.3215
50% of values less than 53.5638	75% of values less than 96.84	90% of values less than 3.22045E+008
Minimum 0.es less than 3.55197E+008	Maximum 4.65198E+008	
Mean 6.67044E+007	SD 1.33243E+008	Variance 1.77536E+016

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0	10% of values less than 0.0126891	25% of values less than 0.0737988
50% of values less than 0.164398	75% of values less than 0.28873	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 204795	SD 403754	Variance 1.63017E+011

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0	10% of values less than 0.653539	25% of values less than 3.70866
50% of values less than 8.51937	75% of values less than 15.3849	90% of values less than 5.11633E+007
Minimum 0.es less than 5.63432E+007	Maximum 7.3531E+007	
Mean 1.05954E+007	SD 2.11555E+007	Variance 4.47553E+014

ETP - EC12-EC16 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00348532	SD 0.0108318	Variance 0.000117328

ETP - EC16-EC21 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.074038	Maximum 0.074038	
Mean 0.00547334	SD 0.0193818	Variance 0.000375653

ETP - EC10-EC12 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.006596
Minimum 0.006596	Maximum 0.006596	
Mean 0.00077755	SD 0.00212807	Variance 4.52866E-006

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.00746457	10% of values less than 0.0268362	25% of values less than 0.0928969
50% of values less than 0.180398	75% of values less than 0.28561	90% of values less than 1E+006
Minimum 0.000000E+000	Maximum 1E+006	
Mean 119880	SD 324984	Variance 1.05614E+011

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 0.678802	10% of values less than 2.55999	25% of values less than 9.11428
50% of values less than 18.1477	75% of values less than 29.0967	90% of values less than 9.06908E+007
Minimum 0.000000E+000	Maximum 1.43452E+008	
Mean 1.25072E+007	SD 3.42749E+007	Variance 1.17477E+015

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.00746457	10% of values less than 0.0268362	25% of values less than 0.0928969
50% of values less than 0.180398	75% of values less than 0.28561	90% of values less than 1E+006
Minimum 0.000000E+000	Maximum 1E+006	
Mean 119880	SD 324984	Variance 1.05614E+011

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 2.15702	10% of values less than 8.13294	25% of values less than 28.9133
50% of values less than 57.6638	75% of values less than 92.5102	90% of values less than 2.88011E+008
Minimum 0.000000E+000	Maximum 4.56848E+008	
Mean 3.97592E+007	SD 1.08973E+008	Variance 1.1875E+016

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.00746457	10% of values less than 0.0268362	25% of values less than 0.0928969
50% of values less than 0.180398	75% of values less than 0.28561	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 119880	SD 324984	Variance 1.05614E+011

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 0.342843	10% of values less than 1.29341	25% of values less than 4.59552
50% of values less than 9.16027	75% of values less than 14.7057	90% of values less than 4.58454E+007
Minimum 0.es less than 5.36256E+007	Maximum 7.22262E+007	
Mean 6.31352E+006	SD 1.72982E+007	Variance 2.99229E+014

ETP - EC12-EC16 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00211344	SD 0.0086051	Variance 7.40477E-005

ETP - EC16-EC21 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 4.5871E-021	Maximum 0.074038	
Mean 0.00325442	SD 0.0151852	Variance 0.00023059

ETP - EC10-EC12 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 9.43905E-024
Minimum 0.es less than 0.006596	Maximum 0.006596	
Mean 0.000500795	SD 0.001748	Variance 3.0555E-006

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.302942	10% of values less than 0.341914	25% of values less than 0.422435
50% of values less than 0.518744	75% of values less than 0.628717	90% of values less than 0.753565
Minimum 0.228697 than 0.824188	Maximum 1.22441	
Mean 0.536726	SD 0.159991	Variance 0.0255971

Retarded Travel Time to ETP 50m years

05% of values less than 30.2202	10% of values less than 34.8868	25% of values less than 41.6921
50% of values less than 52.5799	75% of values less than 64.4776	90% of values less than 77.6121
Minimum 22.2263s than 92.135	Maximum 182.479	
Mean 55.1	SD 19.5542	Variance 382.366

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.302942	10% of values less than 0.341914	25% of values less than 0.422435
50% of values less than 0.518744	75% of values less than 0.628717	90% of values less than 0.753565
Minimum 0.228697 than 0.824188	Maximum 1.22441	
Mean 0.536726	SD 0.159991	Variance 0.0255971

Retarded Travel Time to ETP 50m years

05% of values less than 95.9592	10% of values less than 110.728	25% of values less than 132.519
50% of values less than 166.936	75% of values less than 205.204	90% of values less than 246.711
Minimum 70.6209s than 293.226	Maximum 581.239	
Mean 175.139	SD 62.2648	Variance 3876.9

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.302942	10% of values less than 0.341914	25% of values less than 0.422435
50% of values less than 0.518744	75% of values less than 0.628717	90% of values less than 0.753565
Minimum 0.228697 than 0.824188	Maximum 1.22441	
Mean 0.536726	SD 0.159991	Variance 0.0255971

Retarded Travel Time to ETP 50m years

05% of values less than 15.2795	10% of values less than 17.6626	25% of values less than 21.092
50% of values less than 26.5746	75% of values less than 32.5726	90% of values less than 39.1429
Minimum 11.2275s than 46.4325	Maximum 91.8517	
Mean 27.8183	SD 9.84735	Variance 96.9702

ETP - EC12-EC16 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0.00257837	10% of values less than 0.0032637	25% of values less than 0.00517468
50% of values less than 0.0077888	75% of values less than 0.0111228	90% of values less than 0.0142771
Minimum 0.0003656221 0.0160321	Maximum 0.0203378	
Mean 0.0083386	SD 0.00415778	Variance 1.72872E-005

ETP - EC16-EC21 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 6.04592E-005	10% of values less than 0.000141771	25% of values less than 0.000398186
50% of values less than 0.00114978	75% of values less than 0.00274522	90% of values less than 0.00517359
Minimum 2.33751E-007 0.00738811	Maximum 0.0155988	
Mean 0.00203424	SD 0.00243462	Variance 5.92735E-006

ETP - EC10-EC12 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 2.6241E-008	10% of values less than 8.41575E-008	25% of values less than 8.52571E-007
50% of values less than 7.78073E-006	75% of values less than 3.26945E-005	90% of values less than 8.67538E-005
Minimum 2.19449E-011 0.000137767	Maximum 0.000603927	
Mean 3.01456E-005	SD 5.69098E-005	Variance 3.23872E-009

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.0832666	10% of values less than 0.107856	25% of values less than 0.185947
50% of values less than 0.284036	75% of values less than 0.381502	90% of values less than 0.468754
Minimum 0.02795151	Maximum 0.844117	
Mean 0.289659	SD 0.136186	Variance 0.0185466

Retarded Travel Time to Tank Farm 50m years

05% of values less than 8.4845	10% of values less than 11.2052	25% of values less than 18.2363
50% of values less than 28.3842	75% of values less than 38.5843	90% of values less than 47.3892
Minimum 2.71651	Maximum 125.802	
Mean 29.7008	SD 15.2459	Variance 232.438

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.0832666	10% of values less than 0.107856	25% of values less than 0.185947
50% of values less than 0.284036	75% of values less than 0.381502	90% of values less than 0.468754
Minimum 0.02795151	Maximum 0.844117	
Mean 0.289659	SD 0.136186	Variance 0.0185466

Retarded Travel Time to Tank Farm 50m years

05% of values less than 26.9574	10% of values less than 35.5133	25% of values less than 58.0125
50% of values less than 90.2009	75% of values less than 122.586	90% of values less than 150.486
Minimum 8.63135	Maximum 400.71	
Mean 94.4052	SD 48.5068	Variance 2352.91

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.0832666	10% of values less than 0.107856	25% of values less than 0.185947
50% of values less than 0.284036	75% of values less than 0.381502	90% of values less than 0.468754
Minimum 0.02795151	Maximum 0.844117	
Mean 0.289659	SD 0.136186	Variance 0.0185466

Retarded Travel Time to Tank Farm 50m years

05% of values less than 4.28612	10% of values less than 5.68067	25% of values less than 9.1963
50% of values less than 14.3325	75% of values less than 19.5197	90% of values less than 23.9075
Minimum 1.37223	Maximum 63.3231	
Mean 14.9952	SD 7.68669	Variance 59.0853

ETP - EC12-EC16 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 5.90471E-016
50% of values less than 8.17919E-011	75% of values less than 8.06926E-008	90% of values less than 3.77418E-006
Minimum 0.es less than 1.50156E-005	Maximum 0.000172237	
Mean 3.08445E-006	SD 1.35105E-005	Variance 1.82534E-010

ETP - EC16-EC21 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 2.82282E-016
50% of values less than 2.66781E-011	75% of values less than 2.44247E-008	90% of values less than 1.13175E-006
Minimum 0.es less than 4.41422E-006	Maximum 8.13766E-005	
Mean 1.00078E-006	SD 5.1676E-006	Variance 2.67041E-011

ETP - EC10-EC12 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 5.51386E-018
50% of values less than 4.12937E-013	75% of values less than 2.61316E-010	90% of values less than 1.56517E-008
Minimum 0.es less than 6.09197E-008	Maximum 3.24944E-006	
Mean 2.15814E-008	SD 1.49043E-007	Variance 2.22138E-014

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.53951	10% of values less than 2.60691	25% of values less than 2.74415
50% of values less than 3.01178	75% of values less than 3.54481	90% of values less than 4.15431
Minimum 2.36956s than 4.39333	Maximum 5.32575	
Mean 3.20125	SD 0.596403	Variance 0.355696

Retarded Travel Time to DCE Receptor years

05% of values less than 240.036	10% of values less than 251.592	25% of values less than 271.852
50% of values less than 306.457	75% of values less than 351.892	90% of values less than 443.305
Minimum 209.199s than 535.45	Maximum 793.718	
Mean 329.021	SD 87.5627	Variance 7667.23

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.53951	10% of values less than 2.60691	25% of values less than 2.74415
50% of values less than 3.01178	75% of values less than 3.54481	90% of values less than 4.15431
Minimum 2.36956s than 4.39333	Maximum 5.32575	
Mean 3.20125	SD 0.596403	Variance 0.355696

Retarded Travel Time to DCE Receptor years

05% of values less than 762.424	10% of values less than 798.589	25% of values less than 863.533
50% of values less than 973.352	75% of values less than 1118.79	90% of values less than 1409.9
Minimum 663.81ss than 1703.64	Maximum 2528.18	
Mean 1045.82	SD 279.17	Variance 77935.7

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.53951	10% of values less than 2.60691	25% of values less than 2.74415
50% of values less than 3.01178	75% of values less than 3.54481	90% of values less than 4.15431
Minimum 2.36956s than 4.39333	Maximum 5.32575	
Mean 3.20125	SD 0.596403	Variance 0.355696

Retarded Travel Time to DCE Receptor years

05% of values less than 121.335	10% of values less than 127.273	25% of values less than 137.439
50% of values less than 154.999	75% of values less than 177.932	90% of values less than 223.625
Minimum 105.879s than 269.951	Maximum 399.522	
Mean 166.111	SD 44.0163	Variance 1937.43

ETP - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 5.92971E-013	10% of values less than 2.87019E-012	25% of values less than 3.78603E-011
50% of values less than 3.88364E-010	75% of values less than 2.36474E-009	90% of values less than 9.70237E-009
Minimum 7.6509E-016n 2.09043E-008	Maximum 1.83036E-007	
Mean 3.88392E-009	SD 1.16599E-008	Variance 1.35953E-016

ETP - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 6.15054E-023	10% of values less than 5.36952E-021	25% of values less than 2.11765E-018
50% of values less than 2.30052E-016	75% of values less than 9.85066E-015	90% of values less than 1.20586E-013
Minimum 0.es less than 3.80835E-013	Maximum 1.13385E-011	
Mean 1.13908E-013	SD 6.64341E-013	Variance 4.41348E-025

ETP - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 4.56936E-029
50% of values less than 4.2001E-024	75% of values less than 7.31979E-021	90% of values less than 3.81837E-019
Minimum 0.es less than 2.29778E-018	Maximum 1.56122E-015	
Mean 2.90805E-018	SD 5.11818E-017	Variance 2.61958E-033

ETP - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.6245	10% of values less than 2.69355	25% of values less than 2.8336
50% of values less than 3.10735	75% of values less than 3.66172	90% of values less than 4.28634
Minimum 2.45258s than 4.53905	Maximum 5.48483	
Mean 3.3046	SD 0.614709	Variance 0.377867

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 248.044	10% of values less than 259.624	25% of values less than 280.757
50% of values less than 316.425	75% of values less than 363.561	90% of values less than 457.56
Minimum 216.398s than 551.627	Maximum 817.425	
Mean 339.645	SD 90.3258	Variance 8158.75

ETP - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.6245	10% of values less than 2.69355	25% of values less than 2.8336
50% of values less than 3.10735	75% of values less than 3.66172	90% of values less than 4.28634
Minimum 2.45258s than 4.53905	Maximum 5.48483	
Mean 3.3046	SD 0.614709	Variance 0.377867

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 787.544	10% of values less than 824.458	25% of values less than 891.963
50% of values less than 1005.43	75% of values less than 1154.25	90% of values less than 1455.23
Minimum 686.651s than 1755.11	Maximum 2603.69	
Mean 1079.59	SD 287.98	Variance 82932.8

ETP - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.6245	10% of values less than 2.69355	25% of values less than 2.8336
50% of values less than 3.10735	75% of values less than 3.66172	90% of values less than 4.28634
Minimum 2.45258s than 4.53905	Maximum 5.48483	
Mean 3.3046	SD 0.614709	Variance 0.377867

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 125.389	10% of values less than 131.442	25% of values less than 141.913
50% of values less than 159.948	75% of values less than 183.509	90% of values less than 230.816
Minimum 109.522s than 278.107	Maximum 411.455	
Mean 171.475	SD 45.405	Variance 2061.61

ETP - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.29993E-008	10% of values less than 6.31864E-008	25% of values less than 5.25769E-007
50% of values less than 3.64189E-006	75% of values less than 1.57247E-005	90% of values less than 3.38619E-005
Minimum 4.79528E-012 4.94811E-005	Maximum 0.00018253	
Mean 1.17569E-005	SD 1.91076E-005	Variance 3.65101E-010

ETP - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.71586E-019	10% of values less than 2.49938E-017	25% of values less than 1.34394E-014
50% of values less than 1.55867E-012	75% of values less than 5.61023E-011	90% of values less than 6.16857E-010
Minimum 1.37858E-030 1.68154E-009	Maximum 2.17805E-008	
Mean 3.66075E-010	SD 1.57919E-009	Variance 2.49385E-018

ETP - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 5.20172E-030	25% of values less than 1.44768E-025
50% of values less than 1.59573E-020	75% of values less than 3.06206E-017	90% of values less than 1.66035E-015
Minimum 0.es less than 9.29127E-015	Maximum 9.63983E-013	
Mean 4.72264E-015	SD 4.03678E-014	Variance 1.62956E-027

Source Inventory:*EC12-EC16 Aromatics*

Aquifer Source Concentration [mg/l] SINGLE(0.032941)

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.030882)

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.01361)

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.1275	10% of values less than 1.17527	25% of values less than 1.27288
50% of values less than 1.4262	75% of values less than 1.68245	90% of values less than 1.93609
Minimum 1.01339s than 2.12508	Maximum 2.69267	
Mean 1.50045	SD 0.305986	Variance 0.0936272

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 108.294	10% of values less than 114.045	25% of values less than 126.41
50% of values less than 142.691	75% of values less than 166.549	90% of values less than 208.685
Minimum 90.7534s than 255.372	Maximum 367.11	
Mean 154.231	SD 43.0984	Variance 1857.47

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.1275	10% of values less than 1.17527	25% of values less than 1.27288
50% of values less than 1.4262	75% of values less than 1.68245	90% of values less than 1.93609
Minimum 1.01339s than 2.12508	Maximum 2.69267	
Mean 1.50045	SD 0.305986	Variance 0.0936272

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 344.178	10% of values less than 362.139	25% of values less than 401.624
50% of values less than 453.613	75% of values less than 529.302	90% of values less than 663.816
Minimum 288.09ss than 812.693	Maximum 1168.83	
Mean 490.239	SD 137.373	Variance 18871.3

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.1275	10% of values less than 1.17527	25% of values less than 1.27288
50% of values less than 1.4262	75% of values less than 1.68245	90% of values less than 1.93609
Minimum 1.01339s than 2.12508	Maximum 2.69267	
Mean 1.50045	SD 0.305986	Variance 0.0936272

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 54.6845	10% of values less than 57.6597	25% of values less than 63.8611
50% of values less than 72.1211	75% of values less than 84.0451	90% of values less than 105.246
Minimum 45.9041s than 128.708	Maximum 184.901	
Mean 77.8658	SD 21.6726	Variance 469.703

Tank Farm - EC12-EC16 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 7.04008E-013	10% of values less than 1.87109E-012	25% of values less than 1.45334E-011
50% of values less than 2.71591E-010	75% of values less than 3.27545E-009	90% of values less than 2.0203E-008
Minimum 1.33513E-014 5.12779E-008	Maximum 3.95135E-007	
Mean 9.82058E-009	SD 3.47411E-008	Variance 1.20695E-015

Tank Farm - EC16-EC21 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 6.18005E-017	10% of values less than 4.5231E-016	25% of values less than 6.86505E-015
50% of values less than 1.49058E-013	75% of values less than 3.2118E-012	90% of values less than 3.41577E-011
Minimum 4.16153E-021 9.87546E-011	Maximum 2.09732E-009	
Mean 2.42126E-011	SD 1.23507E-010	Variance 1.52541E-020

Tank Farm - EC10-EC12 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 6.7205E-023	10% of values less than 1.32143E-021	25% of values less than 1.96929E-019
50% of values less than 3.30492E-017	75% of values less than 3.15766E-015	90% of values less than 4.98016E-014
Minimum 0.es less than 2.57775E-013	Maximum 7.04793E-012	
Mean 6.20783E-014	SD 3.74321E-013	Variance 1.40116E-025

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB years

05% of values less than 138.663	10% of values less than 146.019	25% of values less than 161.336
50% of values less than 180.144	75% of values less than 209.323	90% of values less than 265.203
Minimum 118.792s than 321.539	Maximum 453.892	
Mean 195.011	SD 53.3755	Variance 2848.94

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB years

05% of values less than 440.43	10% of values less than 463.952	25% of values less than 512.145
50% of values less than 572.362	75% of values less than 665.601	90% of values less than 844.135
Minimum 377.095s than 1023.67	Maximum 1445.13	
Mean 619.861	SD 170.149	Variance 28950.7

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB years

05% of values less than 70.1381	10% of values less than 73.807	25% of values less than 81.3911
50% of values less than 91.0198	75% of values less than 105.76	90% of values less than 133.776
Minimum 60.0861s than 161.963	Maximum 228.61	
Mean 98.454	SD 26.8364	Variance 720.192

Tank Farm - EC12-EC16 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 2.11321E-024	10% of values less than 2.05635E-023	25% of values less than 3.5686E-022
50% of values less than 3.45671E-020	75% of values less than 1.71147E-018	90% of values less than 3.82868E-017
Minimum 0.es less than 1.09884E-016	Maximum 2.06756E-015	
Mean 3.13839E-017	SD 1.6903E-016	Variance 2.8571E-032

Tank Farm - EC16-EC21 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 2.39793E-028	25% of values less than 2.61102E-026
50% of values less than 2.51839E-024	75% of values less than 2.64401E-022	90% of values less than 6.74961E-021
Minimum 0.es less than 3.91312E-020	Maximum 5.07062E-018	
Mean 2.33435E-020	SD 2.3286E-019	Variance 5.42237E-038

Tank Farm - EC10-EC12 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 5.97054E-029	75% of values less than 3.05031E-026	90% of values less than 2.20159E-024
Minimum 0.es less than 1.55881E-023	Maximum 1.14008E-021	
Mean 7.92969E-024	SD 5.68479E-023	Variance 3.23168E-045

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.911565	10% of values less than 0.956912	25% of values less than 1.0534
50% of values less than 1.19504	75% of values less than 1.39959	90% of values less than 1.61204
Minimum 0.810087 than 1.78344	Maximum 2.28573	
Mean 1.24685	SD 0.265259	Variance 0.0703625

Retarded Travel Time to Boiler House Receptor years

05% of values less than 88.024	10% of values less than 93.5178	25% of values less than 104.461
50% of values less than 118.547	75% of values less than 139.618	90% of values less than 174.541
Minimum 72.8284s than 213.109	Maximum 311.63	
Mean 128.16	SD 36.6619	Variance 1344.1

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.911565	10% of values less than 0.956912	25% of values less than 1.0534
50% of values less than 1.19504	75% of values less than 1.39959	90% of values less than 1.61204
Minimum 0.810087 than 1.78344	Maximum 2.28573	
Mean 1.24685	SD 0.265259	Variance 0.0703625

Retarded Travel Time to Boiler House Receptor years

05% of values less than 279.65	10% of values less than 297.39	25% of values less than 331.909
50% of values less than 376.473	75% of values less than 443.791	90% of values less than 555.291
Minimum 231.189s than 678.358	Maximum 992.188	
Mean 407.37	SD 116.843	Variance 13652.4

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.911565	10% of values less than 0.956912	25% of values less than 1.0534
50% of values less than 1.19504	75% of values less than 1.39959	90% of values less than 1.61204
Minimum 0.810087 than 1.78344	Maximum 2.28573	
Mean 1.24685	SD 0.265259	Variance 0.0703625

Retarded Travel Time to Boiler House Receptor years

05% of values less than 44.4728	10% of values less than 47.2313	25% of values less than 52.7721
50% of values less than 59.8243	75% of values less than 70.4471	90% of values less than 87.9059
Minimum 36.8375s than 107.36	Maximum 156.958	
Mean 64.7036	SD 18.4391	Variance 340.001

Tank Farm - EC12-EC16 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 3.42231E-008	10% of values less than 7.34867E-008	25% of values less than 3.44871E-007
50% of values less than 2.0973E-006	75% of values less than 1.12373E-005	90% of values less than 4.19655E-005
Minimum 3.67882E-009 6.8961E-005	Maximum 0.000183578	
Mean 1.26062E-005	SD 2.4264E-005	Variance 5.88741E-010

Tank Farm - EC16-EC21 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 7.3195E-012	10% of values less than 3.99933E-011	25% of values less than 4.45621E-010
50% of values less than 5.05243E-009	75% of values less than 4.12564E-008	90% of values less than 2.56513E-007
Minimum 2.68712E-016 5.05141E-007	Maximum 4.59879E-006	
Mean 9.77212E-008	SD 2.99931E-007	Variance 8.99587E-014

Tank Farm - EC10-EC12 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.218E-017	10% of values less than 5.59511E-016	25% of values less than 5.51512E-014
50% of values less than 4.23734E-012	75% of values less than 1.3446E-010	90% of values less than 1.49077E-009
Minimum 1.87338E-023 4.54966E-009	Maximum 1.16714E-007	
Mean 1.14075E-009	SD 6.52485E-009	Variance 4.25737E-017

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.282533	10% of values less than 0.317695	25% of values less than 0.391365
50% of values less than 0.497504	75% of values less than 0.610088	90% of values less than 0.731398
Minimum 0.221152 than 0.821816	Maximum 1.10815	
Mean 0.512978	SD 0.163617	Variance 0.0267706

Retarded Travel Time to ETP Receptor years

05% of values less than 28.2742	10% of values less than 31.0548	25% of values less than 39.1285
50% of values less than 49.5412	75% of values less than 62.0446	90% of values less than 75.9556
Minimum 19.9174s than 90.9173	Maximum 151.082	
Mean 52.7164	SD 19.6961	Variance 387.937

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.282533	10% of values less than 0.317695	25% of values less than 0.391365
50% of values less than 0.497504	75% of values less than 0.610088	90% of values less than 0.731398
Minimum 0.221152 than 0.821816	Maximum 1.10815	
Mean 0.512978	SD 0.163617	Variance 0.0267706

Retarded Travel Time to ETP Receptor years

05% of values less than 89.8928	10% of values less than 98.6412	25% of values less than 124.337
50% of values less than 157.511	75% of values less than 197.192	90% of values less than 241.798
Minimum 63.238ss than 289.327	Maximum 481.023	
Mean 167.564	SD 62.7083	Variance 3932.33

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.282533	10% of values less than 0.317695	25% of values less than 0.391365
50% of values less than 0.497504	75% of values less than 0.610088	90% of values less than 0.731398
Minimum 0.221152 than 0.821816	Maximum 1.10815	
Mean 0.512978	SD 0.163617	Variance 0.0267706

Retarded Travel Time to ETP Receptor years

05% of values less than 14.2813	10% of values less than 15.6838	25% of values less than 19.7657
50% of values less than 25.0331	75% of values less than 31.3457	90% of values less than 38.3515
Minimum 10.0718s than 45.8242	Maximum 76.0948	
Mean 26.6147	SD 9.92074	Variance 98.4211

Tank Farm - EC12-EC16 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 2.04969E-013	10% of values less than 1.75281E-012	25% of values less than 8.50677E-011
50% of values less than 9.54883E-009	75% of values less than 3.76951E-007	90% of values less than 4.11124E-006
Minimum 9.48667E-015 1.10839E-005	Maximum 5.0128E-005	
Mean 1.81737E-006	SD 5.81526E-006	Variance 3.38173E-011

Tank Farm - EC16-EC21 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 2.05833E-014	10% of values less than 1.55323E-013	25% of values less than 6.34237E-012
50% of values less than 5.13981E-010	75% of values less than 2.41572E-008	90% of values less than 2.5037E-007
Minimum 3.90204E-016 7.8377E-007	Maximum 5.0508E-006	
Mean 1.48272E-007	SD 5.47609E-007	Variance 2.99875E-013

Tank Farm - EC10-EC12 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 2.90486E-016	10% of values less than 2.6488E-015	25% of values less than 1.36887E-013
50% of values less than 1.06986E-011	75% of values less than 6.58417E-010	90% of values less than 9.91501E-009
Minimum 1.75654E-018 3.71393E-008	Maximum 3.65459E-007	
Mean 6.97977E-009	SD 2.94548E-008	Variance 8.67586E-016

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0546092	10% of values less than 0.0860218	25% of values less than 0.158592
50% of values less than 0.254264	75% of values less than 0.363251	90% of values less than 0.457333
Minimum 0.00527435an 0.510909	Maximum 0.737677	
Mean 0.265911	SD 0.141533	Variance 0.0200315

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 5.25533	10% of values less than 8.54889	25% of values less than 15.8387
50% of values less than 25.819	75% of values less than 36.0756	90% of values less than 47.3211
Minimum 0.53053s than 54.205	Maximum 97.0307	
Mean 27.3171	SD 15.5916	Variance 243.097

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0546092	10% of values less than 0.0860218	25% of values less than 0.158592
50% of values less than 0.254264	75% of values less than 0.363251	90% of values less than 0.457333
Minimum 0.00527435	Maximum 0.737677	
Mean 0.265911	SD 0.141533	Variance 0.0200315

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 16.6942	10% of values less than 27.1386	25% of values less than 50.3143
50% of values less than 82.0776	75% of values less than 114.677	90% of values less than 150.327
Minimum 1.68609	Maximum 308.932	
Mean 86.8299	SD 49.599	Variance 2460.06

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0546092	10% of values less than 0.0860218	25% of values less than 0.158592
50% of values less than 0.254264	75% of values less than 0.363251	90% of values less than 0.457333
Minimum 0.00527435an 0.510909	Maximum 0.737677	
Mean 0.265911	SD 0.141533	Variance 0.0200315

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 2.65559	10% of values less than 4.32355	25% of values less than 8.00338
50% of values less than 13.0329	75% of values less than 18.2261	90% of values less than 23.8892
Minimum 0.267902 than 27.3155	Maximum 48.8712	
Mean 13.7915	SD 7.86266	Variance 61.8215

Tank Farm - EC12-EC16 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.00518407	10% of values less than 0.0066812	25% of values less than 0.00971171
50% of values less than 0.0141837	75% of values less than 0.019629	90% of values less than 0.0245901
Minimum 0.00155446an 0.0268712	Maximum 0.032941	
Mean 0.0149481	SD 0.00660354	Variance 4.36067E-005

Tank Farm - EC16-EC21 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.000334473	10% of values less than 0.000592135	25% of values less than 0.00147592
50% of values less than 0.00339742	75% of values less than 0.00743821	90% of values less than 0.0138827
Minimum 6.79609E-006 0.0169895	Maximum 0.0258528	
Mean 0.00534995	SD 0.00533988	Variance 2.85143E-005

Tank Farm - EC10-EC12 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 4.26125E-006	10% of values less than 1.56176E-005	25% of values less than 7.69375E-005
50% of values less than 0.000341162	75% of values less than 0.00139746	90% of values less than 0.00352124
Minimum 2.56943E-008 0.00531237	Maximum 0.01361	
Mean 0.00122875	SD 0.00209509	Variance 4.38941E-006

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.017231	25% of values less than 0.0771017
50% of values less than 0.175066	75% of values less than 0.302766	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 161838	SD 368486	Variance 1.35782E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.0731937	10% of values less than 1.7258	25% of values less than 7.33971
50% of values less than 17.6067	75% of values less than 31.0011	90% of values less than 9.61951E+007
Minimum 0.es less than 1.09626E+008	Maximum 1.44853E+008	
Mean 1.64957E+007	SD 3.80068E+007	Variance 1.44451E+015

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.017231	25% of values less than 0.0771017
50% of values less than 0.175066	75% of values less than 0.302766	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 161838	SD 368486	Variance 1.35782E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.232525	10% of values less than 5.4857	25% of values less than 23.3285
50% of values less than 55.9311	75% of values less than 98.4345	90% of values less than 3.05624E+008
Minimum 0.es less than 3.48603E+008	Maximum 4.61329E+008	
Mean 5.24302E+007	SD 1.20821E+008	Variance 1.45976E+016

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.017231	25% of values less than 0.0771017
50% of values less than 0.175066	75% of values less than 0.302766	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 161838	SD 368486	Variance 1.35782E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.036982	10% of values less than 0.870648	25% of values less than 3.7059
50% of values less than 8.90066	75% of values less than 15.6558	90% of values less than 4.85975E+007
Minimum 0.es less than 5.5313E+007	Maximum 7.29264E+007	
Mean 8.32876E+006	SD 1.91855E+007	Variance 3.68083E+014

Tank Farm - EC12-EC16 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 6.46655E-012
50% of values less than 1.53596E-005	75% of values less than 0.0014683	90% of values less than 0.0119042
Minimum 0.es less than 0.032941	Maximum 0.032941	
Mean 0.00377933	SD 0.00899029	Variance 8.08254E-005

Tank Farm - EC16-EC21 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 7.39533E-013
50% of values less than 2.58847E-006	75% of values less than 0.000354983	90% of values less than 0.00427918
Minimum 0.es less than 0.030882	Maximum 0.030882	
Mean 0.00236652	SD 0.00734773	Variance 5.39891E-005

Tank Farm - EC10-EC12 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 4.10619E-012
50% of values less than 9.38439E-007	75% of values less than 0.000102865	90% of values less than 0.01361
Minimum 0.es less than 0.01361	Maximum 0.01361	
Mean 0.00156514	SD 0.00418646	Variance 1.75264E-005

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0131395	25% of values less than 0.0707203
50% of values less than 0.173989	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 271728	SD 445073	Variance 1.9809E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 1.2564	25% of values less than 7.41618
50% of values less than 17.2462	75% of values less than 8.39885E+007	90% of values less than 1.05297E+008
Minimum 0.es less than 1.16143E+008	Maximum 1.44853E+008	
Mean 2.77699E+007	SD 4.61039E+007	Variance 2.12557E+015

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0131395	25% of values less than 0.0707203
50% of values less than 0.173989	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 271728	SD 445073	Variance 1.9809E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 3.99099	25% of values less than 23.5797
50% of values less than 54.7545	75% of values less than 2.66563E+008	90% of values less than 3.34751E+008
Minimum 0.es less than 3.69458E+008	Maximum 4.61329E+008	
Mean 8.82659E+007	SD 1.46567E+008	Variance 2.14818E+016

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0131395	25% of values less than 0.0707203
50% of values less than 0.173989	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 271728	SD 445073	Variance 1.9809E+011

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 0.634905	25% of values less than 3.74266
50% of values less than 8.70997	75% of values less than 4.24943E+007	90% of values less than 5.31486E+007
Minimum 0.es less than 5.85716E+007	Maximum 7.29264E+007	
Mean 1.40208E+007	SD 2.32715E+007	Variance 5.41564E+014

Tank Farm - EC12-EC16 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.032941	Maximum 0.032941	
Mean 0.00319208	SD 0.00974967	Variance 9.5056E-005

Tank Farm - EC16-EC21 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.030882	Maximum 0.030882	
Mean 0.00252979	SD 0.00847331	Variance 7.1797E-005

Tank Farm - EC10-EC12 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.01361
Minimum 0.es less than 0.01361	Maximum 0.01361	
Mean 0.00164516	SD 0.0044389	Variance 1.97038E-005

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.35887	10% of values less than 1.41194	25% of values less than 1.51184
50% of values less than 1.68116	75% of values less than 1.98296	90% of values less than 2.30131
Minimum 1.23572s than 2.50048	Maximum 3.13769	
Mean 1.77779	SD 0.351983	Variance 0.123892

Retarded Travel Time to VC MFB 50m years

05% of values less than 129.65	10% of values less than 136.362	25% of values less than 151.081
50% of values less than 168.782	75% of values less than 196.661	90% of values less than 248.861
Minimum 110.356s than 302.191	Maximum 427.784	
Mean 182.743	SD 50.2641	Variance 2526.48

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.35887	10% of values less than 1.41194	25% of values less than 1.51184
50% of values less than 1.68116	75% of values less than 1.98296	90% of values less than 2.30131
Minimum 1.23572s than 2.50048	Maximum 3.13769	
Mean 1.77779	SD 0.351983	Variance 0.123892

Retarded Travel Time to VC MFB 50m years

05% of values less than 411.629	10% of values less than 433.389	25% of values less than 479.672
50% of values less than 536.696	75% of values less than 625.785	90% of values less than 792.021
Minimum 350.319s than 961.689	Maximum 1362.01	
Mean 580.865	SD 160.227	Variance 25672.6

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.35887	10% of values less than 1.41194	25% of values less than 1.51184
50% of values less than 1.68116	75% of values less than 1.98296	90% of values less than 2.30131
Minimum 1.23572s than 2.50048	Maximum 3.13769	
Mean 1.77779	SD 0.351983	Variance 0.123892

Retarded Travel Time to VC MFB 50m years

05% of values less than 65.5639	10% of values less than 68.8788	25% of values less than 76.2557
50% of values less than 85.2533	75% of values less than 99.279	90% of values less than 125.416
Minimum 55.8195s than 152.305	Maximum 215.461	
Mean 92.2602	SD 25.273	Variance 638.725

Tank Farm - EC12-EC16 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.24758E-012	10% of values less than 2.75933E-012	25% of values less than 1.80409E-011
50% of values less than 2.70136E-010	75% of values less than 2.62912E-009	90% of values less than 1.4115E-008
Minimum 1.4989E-014n 3.85452E-008	Maximum 3.10685E-007	
Mean 7.0021E-009	SD 2.47367E-008	Variance 6.11904E-016

Tank Farm - EC16-EC21 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.19946E-017	10% of values less than 8.04887E-017	25% of values less than 1.8881E-015
50% of values less than 4.58333E-014	75% of values less than 8.45536E-013	90% of values less than 9.32776E-012
Minimum 5.91743E-023 2.98938E-011	Maximum 6.79783E-010	
Mean 7.07578E-012	SD 3.7378E-011	Variance 1.39711E-021

Tank Farm - EC10-EC12 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 9.80097E-025	10% of values less than 2.76581E-023	25% of values less than 7.80041E-021
50% of values less than 3.60868E-018	75% of values less than 4.09468E-016	90% of values less than 7.33409E-015
Minimum 0.es less than 2.49468E-014	Maximum 1.21881E-012	
Mean 9.5437E-015	SD 6.45876E-014	Variance 4.17155E-027

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.14503	10% of values less than 1.19526	25% of values less than 1.29139
50% of values less than 1.44654	75% of values less than 1.70639	90% of values less than 1.96361
Minimum 1.03093s than 2.15299	Maximum 2.72778	
Mean 1.52233	SD 0.309568	Variance 0.0958323

Retarded Travel Time to Boiler House 50m years

05% of values less than 110.086	10% of values less than 115.702	25% of values less than 128.372
50% of values less than 144.8	75% of values less than 168.754	90% of values less than 212.087
Minimum 92.3002s than 259.524	Maximum 371.898	
Mean 156.481	SD 43.6597	Variance 1906.17

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.14503	10% of values less than 1.19526	25% of values less than 1.29139
50% of values less than 1.44654	75% of values less than 1.70639	90% of values less than 1.96361
Minimum 1.03093s than 2.15299	Maximum 2.72778	
Mean 1.52233	SD 0.309568	Variance 0.0958323

Retarded Travel Time to Boiler House 50m years

05% of values less than 349.603	10% of values less than 367.475	25% of values less than 407.857
50% of values less than 460.458	75% of values less than 536.532	90% of values less than 674.64
Minimum 293.001s than 825.905	Maximum 1184.07	
Mean 497.39	SD 139.163	Variance 19366.5

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.14503	10% of values less than 1.19526	25% of values less than 1.29139
50% of values less than 1.44654	75% of values less than 1.70639	90% of values less than 1.96361
Minimum 1.03093s than 2.15299	Maximum 2.72778	
Mean 1.52233	SD 0.309568	Variance 0.0958323

Retarded Travel Time to Boiler House 50m years

05% of values less than 55.5891	10% of values less than 58.4884	25% of values less than 64.8522
50% of values less than 73.1128	75% of values less than 85.2424	90% of values less than 106.962
Minimum 46.6865s than 130.801	Maximum 187.313	
Mean 79.0016	SD 21.9547	Variance 482.008

Tank Farm - EC12-EC16 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.05954E-007	10% of values less than 3.14636E-007	25% of values less than 1.01757E-006
50% of values less than 4.69077E-006	75% of values less than 2.07423E-005	90% of values less than 6.69841E-005
Minimum 4.49495E-009 9.83258E-005	Maximum 0.00025616	
Mean 1.99488E-005	SD 3.52203E-005	Variance 1.24047E-009

Tank Farm - EC16-EC21 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 2.65534E-012	10% of values less than 1.8549E-011	25% of values less than 3.17955E-010
50% of values less than 3.50749E-009	75% of values less than 2.76097E-008	90% of values less than 1.74049E-007
Minimum 1.14414E-017 3.53261E-007	Maximum 3.36734E-006	
Mean 6.45834E-008	SD 2.02816E-007	Variance 4.11343E-014

Tank Farm - EC10-EC12 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 3.54334E-019	10% of values less than 2.75044E-017	25% of values less than 4.25294E-015
50% of values less than 1.12263E-012	75% of values less than 3.55888E-011	90% of values less than 4.72017E-010
Minimum 3.05617E-026 1.62171E-009	Maximum 4.69156E-008	
Mean 4.2654E-010	SD 2.66869E-009	Variance 7.12188E-018

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB 50m years

05% of values less than 138.663	10% of values less than 146.019	25% of values less than 161.336
50% of values less than 180.144	75% of values less than 209.323	90% of values less than 265.203
Minimum 118.792s than 321.539	Maximum 453.892	
Mean 195.011	SD 53.3755	Variance 2848.94

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB 50m years

05% of values less than 440.43	10% of values less than 463.952	25% of values less than 512.145
50% of values less than 572.362	75% of values less than 665.601	90% of values less than 844.135
Minimum 377.095s than 1023.67	Maximum 1445.13	
Mean 619.861	SD 170.149	Variance 28950.7

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.45771	10% of values less than 1.51115	25% of values less than 1.61322
50% of values less than 1.79359	75% of values less than 2.11139	90% of values less than 2.44819
Minimum 1.33138s than 2.65584	Maximum 3.32919	
Mean 1.89713	SD 0.372109	Variance 0.138465

Retarded Travel Time to Lead MFB 50m years

05% of values less than 70.1381	10% of values less than 73.807	25% of values less than 81.3911
50% of values less than 91.0198	75% of values less than 105.76	90% of values less than 133.776
Minimum 60.0861s than 161.963	Maximum 228.61	
Mean 98.454	SD 26.8364	Variance 720.192

Tank Farm - EC12-EC16 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 2.11321E-024	10% of values less than 2.05635E-023	25% of values less than 3.5686E-022
50% of values less than 3.45671E-020	75% of values less than 1.71147E-018	90% of values less than 3.82868E-017
Minimum 0.es less than 1.09884E-016	Maximum 2.06756E-015	
Mean 3.13839E-017	SD 1.6903E-016	Variance 2.8571E-032

Tank Farm - EC16-EC21 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 2.39793E-028	25% of values less than 2.61102E-026
50% of values less than 2.51839E-024	75% of values less than 2.64401E-022	90% of values less than 6.74961E-021
Minimum 0.es less than 3.91312E-020	Maximum 5.07062E-018	
Mean 2.33435E-020	SD 2.3286E-019	Variance 5.42237E-038

Tank Farm - EC10-EC12 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 5.97054E-029	75% of values less than 3.05031E-026	90% of values less than 2.20159E-024
Minimum 0.es less than 1.55881E-023	Maximum 1.14008E-021	
Mean 7.92969E-024	SD 5.68479E-023	Variance 3.23168E-045

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.912246	10% of values less than 0.957637	25% of values less than 1.0542
50% of values less than 1.19579	75% of values less than 1.40049	90% of values less than 1.61296
Minimum 0.81074s than 1.78448	Maximum 2.28704	
Mean 1.24766	SD 0.265387	Variance 0.0704305

Retarded Travel Time to BH Lead 50m years

05% of values less than 88.0866	10% of values less than 93.5925	25% of values less than 104.53
50% of values less than 118.628	75% of values less than 139.703	90% of values less than 174.658
Minimum 72.886ss than 213.23	Maximum 311.808	
Mean 128.244	SD 36.6823	Variance 1345.59

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.912246	10% of values less than 0.957637	25% of values less than 1.0542
50% of values less than 1.19579	75% of values less than 1.40049	90% of values less than 1.61296
Minimum 0.81074s than 1.78448	Maximum 2.28704	
Mean 1.24766	SD 0.265387	Variance 0.0704305

Retarded Travel Time to BH Lead 50m years

05% of values less than 279.848	10% of values less than 297.628	25% of values less than 332.122
50% of values less than 376.723	75% of values less than 444.081	90% of values less than 555.625
Minimum 231.372s than 678.778	Maximum 992.755	
Mean 407.636	SD 116.909	Variance 13667.6

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.912246	10% of values less than 0.957637	25% of values less than 1.0542
50% of values less than 1.19579	75% of values less than 1.40049	90% of values less than 1.61296
Minimum 0.81074s than 1.78448	Maximum 2.28704	
Mean 1.24766	SD 0.265387	Variance 0.0704305

Retarded Travel Time to BH Lead 50m years

05% of values less than 44.5044	10% of values less than 47.2656	25% of values less than 52.8063
50% of values less than 59.8608	75% of values less than 70.4888	90% of values less than 87.9644
Minimum 36.8666s than 107.422	Maximum 157.048	
Mean 64.7459	SD 18.4494	Variance 340.38

Tank Farm - EC12-EC16 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.35622E-007	10% of values less than 2.93755E-007	25% of values less than 1.11061E-006
50% of values less than 6.02248E-006	75% of values less than 3.0023E-005	90% of values less than 9.39187E-005
Minimum 1.30254E-008 0.000151391	Maximum 0.000369001	
Mean 2.87897E-005	SD 5.14289E-005	Variance 2.64493E-009

Tank Farm - EC16-EC21 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 2.44646E-011	10% of values less than 1.29901E-010	25% of values less than 1.47379E-009
50% of values less than 1.5378E-008	75% of values less than 1.12445E-007	90% of values less than 6.51589E-007
Minimum 1.03025E-015 1.26203E-006	Maximum 1.01626E-005	
Mean 2.29452E-007	SD 6.71232E-007	Variance 4.50553E-013

Tank Farm - EC10-EC12 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 4.08828E-017	10% of values less than 1.91075E-015	25% of values less than 1.72693E-013
50% of values less than 1.40256E-011	75% of values less than 3.68927E-010	90% of values less than 3.97602E-009
Minimum 5.97555E-023 1.09694E-008	Maximum 2.73407E-007	
Mean 2.78648E-009	SD 1.53186E-008	Variance 2.34658E-016

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.68202	10% of values less than 0.723382	25% of values less than 0.808344
50% of values less than 0.93228	75% of values less than 1.09477	90% of values less than 1.27398
Minimum 0.589898	Maximum 1.84499	
Mean 0.972178	SD 0.22342	Variance 0.0499166

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 66.3492	10% of values less than 70.9662	25% of values less than 80.3598
50% of values less than 92.7619	75% of values less than 110.867	90% of values less than 136.035
Minimum 53.1951	Maximum 251.541	
Mean 99.9235	SD 29.9012	Variance 894.08

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.68202	10% of values less than 0.723382	25% of values less than 0.808344
50% of values less than 0.93228	75% of values less than 1.09477	90% of values less than 1.27398
Minimum 0.589898 than 1.42586	Maximum 1.84499	
Mean 0.972178	SD 0.22342	Variance 0.0499166

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 210.911	10% of values less than 225.346	25% of values less than 255.559
50% of values less than 294.832	75% of values less than 352.612	90% of values less than 433.05
Minimum 168.895s than 523.185	Maximum 800.871	
Mean 317.616	SD 95.2763	Variance 9077.57

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.68202	10% of values less than 0.723382	25% of values less than 0.808344
50% of values less than 0.93228	75% of values less than 1.09477	90% of values less than 1.27398
Minimum 0.589898 than 1.42586	Maximum 1.84499	
Mean 0.972178	SD 0.22342	Variance 0.0499166

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 33.5053	10% of values less than 35.8283	25% of values less than 40.5419
50% of values less than 46.8546	75% of values less than 55.9725	90% of values less than 68.5314
Minimum 26.8997s than 82.7255	Maximum 126.693	
Mean 50.4478	SD 15.0434	Variance 226.304

Tank Farm - EC12-EC16 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.16053E-008	10% of values less than 3.16404E-008	25% of values less than 2.23271E-007
50% of values less than 1.67772E-006	75% of values less than 1.14417E-005	90% of values less than 4.74212E-005
Minimum 1.60809E-009 8.22737E-005	Maximum 0.000219027	
Mean 1.45802E-005	SD 2.995E-005	Variance 8.97001E-010

Tank Farm - EC16-EC21 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 2.95494E-011	10% of values less than 1.2251E-010	25% of values less than 1.16392E-009
50% of values less than 1.34856E-008	75% of values less than 1.2378E-007	90% of values less than 6.98583E-007
Minimum 4.93199E-015 1.71482E-006	Maximum 1.05352E-005	
Mean 2.79596E-007	SD 8.17961E-007	Variance 6.69061E-013

Tank Farm - EC10-EC12 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.47851E-015	10% of values less than 2.37169E-014	25% of values less than 1.15701E-012
50% of values less than 4.07006E-011	75% of values less than 9.88401E-010	90% of values less than 1.04829E-008
Minimum 1.2078E-020n 2.61767E-008	Maximum 5.21601E-007	
Mean 5.92542E-009	SD 2.89202E-008	Variance 8.3638E-016

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.22909	10% of values less than 1.28335	25% of values less than 1.38001
50% of values less than 1.53838	75% of values less than 1.81989	90% of values less than 2.09498
Minimum 1.11304s than 2.28365	Maximum 2.89214	
Mean 1.62476	SD 0.32645	Variance 0.10657

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 117.911	10% of values less than 124.163	25% of values less than 137.535
50% of values less than 154.547	75% of values less than 179.838	90% of values less than 227.559
Minimum 99.5399s than 276.718	Maximum 394.306	
Mean 167.011	SD 46.2973	Variance 2143.44

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.22909	10% of values less than 1.28335	25% of values less than 1.38001
50% of values less than 1.53838	75% of values less than 1.81989	90% of values less than 2.09498
Minimum 1.11304s than 2.28365	Maximum 2.89214	
Mean 1.62476	SD 0.32645	Variance 0.10657

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 374.737	10% of values less than 394.346	25% of values less than 437.138
50% of values less than 491.187	75% of values less than 571.782	90% of values less than 723.88
Minimum 315.983s than 880.434	Maximum 1255.42	
Mean 530.86	SD 147.575	Variance 21778.5

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.22909	10% of values less than 1.28335	25% of values less than 1.38001
50% of values less than 1.53838	75% of values less than 1.81989	90% of values less than 2.09498
Minimum 1.11304s than 2.28365	Maximum 2.89214	
Mean 1.62476	SD 0.32645	Variance 0.10657

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 59.5564	10% of values less than 62.7576	25% of values less than 69.4194
50% of values less than 78.024	75% of values less than 90.7305	90% of values less than 114.759
Minimum 50.3484s than 139.51	Maximum 198.599	
Mean 84.3177	SD 23.2799	Variance 541.952

Tank Farm - EC12-EC16 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 6.91617E-024
50% of values less than 1.81825E-021	75% of values less than 1.54457E-019	90% of values less than 5.06792E-018
Minimum 0.es less than 1.59815E-017	Maximum 4.13186E-016	
Mean 4.98075E-018	SD 2.81704E-017	Variance 7.93571E-034

Tank Farm - EC16-EC21 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.64277E-028
50% of values less than 5.56596E-025	75% of values less than 5.88475E-023	90% of values less than 2.17785E-021
Minimum 0.es less than 1.44196E-020	Maximum 2.2312E-018	
Mean 9.19564E-021	SD 9.44097E-020	Variance 8.91319E-039

Tank Farm - EC10-EC12 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.11178E-029	75% of values less than 1.73462E-026	90% of values less than 1.19036E-024
Minimum 0.es less than 1.17344E-023	Maximum 7.89917E-022	
Mean 6.15023E-024	SD 4.2882E-023	Variance 1.83886E-045

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.125961	10% of values less than 0.154392	25% of values less than 0.231497
50% of values less than 0.325051	75% of values less than 0.439153	90% of values less than 0.540893
Minimum 0.070733 than 0.60688	Maximum 0.848069	
Mean 0.340827	SD 0.147148	Variance 0.0216526

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 12.5743	10% of values less than 15.3654	25% of values less than 23.1369
50% of values less than 33.2648	75% of values less than 43.7393	90% of values less than 56.0696
Minimum 7.11481s than 66.343	Maximum 113.42	
Mean 35.0187	SD 16.6611	Variance 277.593

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.125961	10% of values less than 0.154392	25% of values less than 0.231497
50% of values less than 0.325051	75% of values less than 0.439153	90% of values less than 0.540893
Minimum 0.070733 than 0.60688	Maximum 0.848069	
Mean 0.340827	SD 0.147148	Variance 0.0216526

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 40.0054	10% of values less than 48.8358	25% of values less than 73.4654
50% of values less than 105.742	75% of values less than 139.029	90% of values less than 178.23
Minimum 22.6118s than 211.15	Maximum 361.114	
Mean 111.31	SD 53.0159	Variance 2810.69

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.125961	10% of values less than 0.154392	25% of values less than 0.231497
50% of values less than 0.325051	75% of values less than 0.439153	90% of values less than 0.540893
Minimum 0.070733 than 0.60688	Maximum 0.848069	
Mean 0.340827	SD 0.147148	Variance 0.0216526

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 6.34001	10% of values less than 7.76552	25% of values less than 11.6816
50% of values less than 16.7929	75% of values less than 22.0799	90% of values less than 28.3059
Minimum 3.59277s than 33.4323	Maximum 57.126	
Mean 17.6798	SD 8.39874	Variance 70.5389

Tank Farm - EC12-EC16 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Tank Farm - EC16-EC21 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Tank Farm - EC10-EC12 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.173268	10% of values less than 0.202366	25% of values less than 0.279703
50% of values less than 0.374328	75% of values less than 0.487593	90% of values less than 0.5941
Minimum 0.114409	Maximum 0.921724	
Mean 0.390813	SD 0.151455	Variance 0.0229387

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 17.0299	10% of values less than 20.0543	25% of values less than 27.5662
50% of values less than 38.1037	75% of values less than 49.1004	90% of values less than 61.7377
Minimum 11.0642s	Maximum 124.355	
Mean 40.1574	SD 17.4691	Variance 305.171

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.173268	10% of values less than 0.202366	25% of values less than 0.279703
50% of values less than 0.374328	75% of values less than 0.487593	90% of values less than 0.5941
Minimum 0.114409	Maximum 0.921724	
Mean 0.390813	SD 0.151455	Variance 0.0229387

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 54.1747	10% of values less than 63.6929	25% of values less than 87.6913
50% of values less than 121.173	75% of values less than 155.86	90% of values less than 195.884
Minimum 35.129	Maximum 395.93	
Mean 127.644	SD 55.5969	Variance 3091.01

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.173268	10% of values less than 0.202366	25% of values less than 0.279703
50% of values less than 0.374328	75% of values less than 0.487593	90% of values less than 0.5941
Minimum 0.114409	Maximum 0.921724	
Mean 0.390813	SD 0.151455	Variance 0.0229387

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 8.58792	10% of values less than 10.1364	25% of values less than 13.9014
50% of values less than 19.2193	75% of values less than 24.8229	90% of values less than 31.1395
Minimum 5.59493s	Maximum 62.6337	
Mean 20.2741	SD 8.80384	Variance 77.5076

Tank Farm - EC12-EC16 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 3.00239E-009	10% of values less than 3.53942E-008	25% of values less than 1.10488E-006
50% of values less than 5.13476E-005	75% of values less than 0.000484025	90% of values less than 0.00185702
Minimum 4.50214E-012 0.00301622	Maximum 0.007828	
Mean 0.000540517	SD 0.00107812	Variance 1.16233E-006

Tank Farm - EC16-EC21 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 8.92925E-010	10% of values less than 4.86748E-009	25% of values less than 1.43867E-007
50% of values less than 4.59598E-006	75% of values less than 5.60988E-005	90% of values less than 0.000253969
Minimum 2.14558E-012 0.000439981	Maximum 0.00132506	
Mean 7.76725E-005	SD 0.000176264	Variance 3.10691E-008

Tank Farm - EC10-EC12 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 3.86704E-011	10% of values less than 2.12334E-010	25% of values less than 4.97868E-009
50% of values less than 1.73282E-007	75% of values less than 2.61043E-006	90% of values less than 1.81395E-005
Minimum 8.09799E-014 3.68205E-005	Maximum 0.00022869	
Mean 6.85608E-006	SD 2.06103E-005	Variance 4.24785E-010

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.521879	10% of values less than 0.563568	25% of values less than 0.646504
50% of values less than 0.758631	75% of values less than 0.897753	90% of values less than 1.0601
Minimum 0.442622 than 1.17672	Maximum 1.5502	
Mean 0.788462	SD 0.197482	Variance 0.038999

Retarded Travel Time to ETP 50m years

05% of values less than 51.5702	10% of values less than 55.2678	25% of values less than 63.7265
50% of values less than 75.6633	75% of values less than 91.1209	90% of values less than 111.154
Minimum 39.8815s than 134.736	Maximum 211.349	
Mean 81.037	SD 25.5853	Variance 654.608

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.521879	10% of values less than 0.563568	25% of values less than 0.646504
50% of values less than 0.758631	75% of values less than 0.897753	90% of values less than 1.0601
Minimum 0.442622	Maximum 1.5502	
Mean 0.788462	SD 0.197482	Variance 0.038999

Retarded Travel Time to ETP 50m years

05% of values less than 163.857	10% of values less than 175.494	25% of values less than 202.545
50% of values less than 240.294	75% of values less than 289.801	90% of values less than 353.586
Minimum 126.624s	Maximum 672.907	
Mean 257.584	SD 81.5056	Variance 6643.16

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.521879	10% of values less than 0.563568	25% of values less than 0.646504
50% of values less than 0.758631	75% of values less than 0.897753	90% of values less than 1.0601
Minimum 0.442622 than 1.17672	Maximum 1.5502	
Mean 0.788462	SD 0.197482	Variance 0.038999

Retarded Travel Time to ETP 50m years

05% of values less than 26.0504	10% of values less than 27.9339	25% of values less than 32.1896
50% of values less than 38.2038	75% of values less than 46.0593	90% of values less than 56.0554
Minimum 20.1672s than 67.904	Maximum 106.45	
Mean 40.9127	SD 12.8763	Variance 165.8

Tank Farm - EC12-EC16 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 2.2399E-009	10% of values less than 7.18337E-009	25% of values less than 7.34161E-008
50% of values less than 9.29398E-007	75% of values less than 9.01297E-006	90% of values less than 4.41485E-005
Minimum 2.40078E-010 7.64829E-005	Maximum 0.000206931	
Mean 1.32068E-005	SD 2.96917E-005	Variance 8.81595E-010

Tank Farm - EC16-EC21 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 2.61321E-011	10% of values less than 9.28794E-011	25% of values less than 9.9666E-010
50% of values less than 1.73204E-008	75% of values less than 1.84453E-007	90% of values less than 1.19073E-006
Minimum 1.77738E-014 2.89249E-006	Maximum 1.40371E-005	
Mean 4.63527E-007	SD 1.3503E-006	Variance 1.8233E-012

Tank Farm - EC10-EC12 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 1.48967E-014	10% of values less than 1.02399E-013	25% of values less than 3.71072E-012
50% of values less than 1.09452E-010	75% of values less than 2.51112E-009	90% of values less than 2.95438E-008
Minimum 5.76995E-019 6.74694E-008	Maximum 1.14038E-006	
Mean 1.4439E-008	SD 6.28158E-008	Variance 3.94582E-015

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.310117	10% of values less than 0.345156	25% of values less than 0.416673
50% of values less than 0.524787	75% of values less than 0.638164	90% of values less than 0.764057
Minimum 0.244561 than 0.857064	Maximum 1.15375	
Mean 0.541396	SD 0.16674	Variance 0.0278021

Retarded Travel Time to Tank Farm 50m years

05% of values less than 30.9649	10% of values less than 33.7051	25% of values less than 41.7972
50% of values less than 52.2391	75% of values less than 64.9454	90% of values less than 80.1461
Minimum 21.9768s than 95.7954	Maximum 157.298	
Mean 55.6378	SD 20.2562	Variance 410.315

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.310117	10% of values less than 0.345156	25% of values less than 0.416673
50% of values less than 0.524787	75% of values less than 0.638164	90% of values less than 0.764057
Minimum 0.244561 than 0.857064	Maximum 1.15375	
Mean 0.541396	SD 0.16674	Variance 0.0278021

Retarded Travel Time to Tank Farm 50m years

05% of values less than 98.461	10% of values less than 107.045	25% of values less than 132.765
50% of values less than 166.032	75% of values less than 206.526	90% of values less than 255.197
Minimum 69.7765s than 304.981	Maximum 500.817	
Mean 176.85	SD 64.4966	Variance 4159.81

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.310117	10% of values less than 0.345156	25% of values less than 0.416673
50% of values less than 0.524787	75% of values less than 0.638164	90% of values less than 0.764057
Minimum 0.244561 than 0.857064	Maximum 1.15375	
Mean 0.541396	SD 0.16674	Variance 0.0278021

Retarded Travel Time to Tank Farm 50m years

05% of values less than 15.6297	10% of values less than 17.037	25% of values less than 21.1122
50% of values less than 26.4082	75% of values less than 32.8091	90% of values less than 40.4226
Minimum 11.1132s than 48.2532	Maximum 79.2261	
Mean 28.0896	SD 10.2017	Variance 104.076

Tank Farm - EC12-EC16 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0.00196196	10% of values less than 0.00278559	25% of values less than 0.0044201
50% of values less than 0.00677195	75% of values less than 0.00947708	90% of values less than 0.0122463
Minimum 0.0002628321 0.0137383	Maximum 0.0184821	
Mean 0.0072139	SD 0.00360249	Variance 1.29779E-005

Tank Farm - EC16-EC21 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 2.06487E-005	10% of values less than 4.73958E-005	25% of values less than 0.000174121
50% of values less than 0.000454429	75% of values less than 0.00108171	90% of values less than 0.00205603
Minimum 4.93494E-008 0.00287171	Maximum 0.0060097	
Mean 0.000815753	SD 0.000959789	Variance 9.21195E-007

Tank Farm - EC10-EC12 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 2.2218E-008	10% of values less than 1.52718E-007	25% of values less than 1.39178E-006
50% of values less than 1.55042E-005	75% of values less than 6.96116E-005	90% of values less than 0.000197936
Minimum 6.97242E-012 0.000337737	Maximum 0.00112197	
Mean 6.91014E-005	SD 0.000136402	Variance 1.86056E-008

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.73602	10% of values less than 2.80566	25% of values less than 2.95496
50% of values less than 3.25917	75% of values less than 3.812	90% of values less than 4.46825
Minimum 2.57864s than 4.80507	Maximum 5.82576	
Mean 3.45299	SD 0.643284	Variance 0.413815

Retarded Travel Time to DCE Receptor years

05% of values less than 259.383	10% of values less than 270.685	25% of values less than 295.806
50% of values less than 328.035	75% of values less than 380.565	90% of values less than 482.388
Minimum 228.763s than 591.764	Maximum 794.268	
Mean 354.958	SD 94.6423	Variance 8957.16

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.73602	10% of values less than 2.80566	25% of values less than 2.95496
50% of values less than 3.25917	75% of values less than 3.812	90% of values less than 4.46825
Minimum 2.57864s than 4.80507	Maximum 5.82576	
Mean 3.45299	SD 0.643284	Variance 0.413815

Retarded Travel Time to DCE Receptor years

05% of values less than 823.882	10% of values less than 859.589	25% of values less than 940.467
50% of values less than 1042.36	75% of values less than 1208.92	90% of values less than 1535.62
Minimum 726.192s than 1882.04	Maximum 2528.84	
Mean 1128.27	SD 301.742	Variance 91048.3

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.73602	10% of values less than 2.80566	25% of values less than 2.95496
50% of values less than 3.25917	75% of values less than 3.812	90% of values less than 4.46825
Minimum 2.57864s than 4.80507	Maximum 5.82576	
Mean 3.45299	SD 0.643284	Variance 0.413815

Retarded Travel Time to DCE Receptor years

05% of values less than 131.088	10% of values less than 136.782	25% of values less than 149.286
50% of values less than 165.687	75% of values less than 192.121	90% of values less than 243.038
Minimum 115.711s than 298.505	Maximum 400.047	
Mean 179.206	SD 47.5748	Variance 2263.36

Tank Farm - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.0427E-009	10% of values less than 6.67575E-009	25% of values less than 8.17264E-008
50% of values less than 5.16382E-007	75% of values less than 2.13512E-006	90% of values less than 6.14454E-006
Minimum 2.89654E-013 1.01305E-005	Maximum 5.50169E-005	
Mean 2.22465E-006	SD 4.78991E-006	Variance 2.29432E-011

Tank Farm - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.46442E-021	10% of values less than 1.95461E-019	25% of values less than 3.34991E-016
50% of values less than 4.7281E-014	75% of values less than 2.54644E-012	90% of values less than 2.26321E-011
Minimum 0.es less than 7.86844E-011	Maximum 1.36832E-009	
Mean 1.73672E-011	SD 8.06992E-011	Variance 6.51237E-021

Tank Farm - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 4.96211E-027
50% of values less than 1.20814E-021	75% of values less than 4.05119E-018	90% of values less than 2.20709E-016
Minimum 0.es less than 1.60094E-015	Maximum 3.87976E-013	
Mean 1.25458E-015	SD 1.35786E-014	Variance 1.84377E-028

Tank Farm - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.82053	10% of values less than 2.88942	25% of values less than 3.04399
50% of values less than 3.35537	75% of values less than 3.92872	90% of values less than 4.59933
Minimum 2.66149s than 4.94365	Maximum 5.99159	
Mean 3.55633	SD 0.661604	Variance 0.43772

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 267.216	10% of values less than 278.869	25% of values less than 304.677
50% of values less than 337.949	75% of values less than 391.956	90% of values less than 496.874
Minimum 236.068s than 608.549	Maximum 816.876	
Mean 365.582	SD 97.4072	Variance 9488.16

Tank Farm - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.82053	10% of values less than 2.88942	25% of values less than 3.04399
50% of values less than 3.35537	75% of values less than 3.92872	90% of values less than 4.59933
Minimum 2.66149s than 4.94365	Maximum 5.99159	
Mean 3.55633	SD 0.661604	Variance 0.43772

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 848.762	10% of values less than 884.95	25% of values less than 967.902
50% of values less than 1073.84	75% of values less than 1246.75	90% of values less than 1581.55
Minimum 749.38ss than 1935.42	Maximum 2600.82	
Mean 1162.04	SD 310.559	Variance 96446.6

Tank Farm - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.82053	10% of values less than 2.88942	25% of values less than 3.04399
50% of values less than 3.35537	75% of values less than 3.92872	90% of values less than 4.59933
Minimum 2.66149s than 4.94365	Maximum 5.99159	
Mean 3.55633	SD 0.661604	Variance 0.43772

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 135.047	10% of values less than 141.007	25% of values less than 153.943
50% of values less than 170.662	75% of values less than 197.944	90% of values less than 250.414
Minimum 119.406s than 306.988	Maximum 411.434	
Mean 184.569	SD 48.9644	Variance 2397.51

Tank Farm - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 2.00903E-009	10% of values less than 1.30273E-008	25% of values less than 1.40912E-007
50% of values less than 1.11727E-006	75% of values less than 4.86877E-006	90% of values less than 1.2724E-005
Minimum 2.84982E-013 2.04902E-005	Maximum 9.30043E-005	
Mean 4.52292E-006	SD 8.45241E-006	Variance 7.14432E-011

Tank Farm - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 5.45585E-022	10% of values less than 1.75387E-019	25% of values less than 4.48557E-016
50% of values less than 5.61908E-014	75% of values less than 3.02245E-012	90% of values less than 4.26606E-011
Minimum 0.es less than 1.35809E-010	Maximum 2.08145E-009	
Mean 2.75451E-011	SD 1.30597E-010	Variance 1.70555E-020

Tank Farm - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 4.935E-027
50% of values less than 1.10623E-021	75% of values less than 3.93383E-018	90% of values less than 2.54038E-016
Minimum 0.es less than 1.98458E-015	Maximum 3.1585E-013	
Mean 2.11441E-015	SD 1.79813E-014	Variance 3.23325E-028

Source Inventory:

1,2-Dichloroethene (1,2-DCE)

Aquifer Source Concentration [mg/l] SINGLE(0.044483)

Trichloroethene (TCE)

Aquifer Source Concentration [mg/l] SINGLE(0.009776)

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.2031	10% of values less than 1.23719	25% of values less than 1.32222
50% of values less than 1.47268	75% of values less than 1.68067	90% of values less than 2.00493
Minimum 1.13408s than 2.14492	Maximum 2.66404	
Mean 1.54316	SD 0.29593	Variance 0.0875744

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 2.15291	10% of values less than 2.2135	25% of values less than 2.36983
50% of values less than 2.64484	75% of values less than 3.04735	90% of values less than 3.56624
Minimum 1.99283s than 4.08085	Maximum 5.33939	
Mean 2.79951	SD 0.6016	Variance 0.361923

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.2031	10% of values less than 1.23719	25% of values less than 1.32222
50% of values less than 1.47268	75% of values less than 1.68067	90% of values less than 2.00493
Minimum 1.13408s than 2.14492	Maximum 2.66404	
Mean 1.54316	SD 0.29593	Variance 0.0875744

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 2.15517	10% of values less than 2.42971	25% of values less than 2.96752
50% of values less than 4.04306	75% of values less than 5.01039	90% of values less than 6.18164
Minimum 1.68075s than 7.06721	Maximum 11.9698	
Mean 4.19374	SD 1.58044	Variance 2.49779

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 1.17933E-009	10% of values less than 3.66573E-009	25% of values less than 1.45768E-008
50% of values less than 9.04019E-008	75% of values less than 5.07887E-007	90% of values less than 1.83888E-006
Minimum 1.87957E-011 3.35978E-006	Maximum 1.53958E-005	
Mean 6.45927E-007	SD 1.49226E-006	Variance 2.22683E-012

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 2.01347E-009	10% of values less than 9.49524E-009	25% of values less than 6.69954E-008
50% of values less than 4.09197E-007	75% of values less than 2.5771E-006	90% of values less than 8.77316E-006
Minimum 4.03697E-014 1.69439E-005	Maximum 5.58462E-005	
Mean 3.0427E-006	SD 6.5254E-006	Variance 4.25808E-011

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB years

05% of values less than 2.7283	10% of values less than 2.80483	25% of values less than 2.98627
50% of values less than 3.32009	75% of values less than 3.84376	90% of values less than 4.4612
Minimum 2.53854s than 5.12459	Maximum 6.67307	
Mean 3.51926	SD 0.746383	Variance 0.557087

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB years

05% of values less than 2.70003	10% of values less than 3.0465	25% of values less than 3.72174
50% of values less than 5.0906	75% of values less than 6.29602	90% of values less than 7.75498
Minimum 2.13523s than 8.82554	Maximum 14.7773	
Mean 5.27234	SD 1.97955	Variance 3.9186

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 1.02923E-018	10% of values less than 3.36091E-018	25% of values less than 2.93248E-017
50% of values less than 4.43064E-016	75% of values less than 7.00643E-015	90% of values less than 5.6369E-014
Minimum 2.12121E-021 1.69982E-013	Maximum 1.72323E-012	
Mean 2.93175E-014	SD 1.13715E-013	Variance 1.2931E-026

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 3.13377E-018	10% of values less than 2.26501E-017	25% of values less than 2.64296E-016
50% of values less than 5.08085E-015	75% of values less than 8.45264E-014	90% of values less than 6.83885E-013
Minimum 3.39033E-024 1.7728E-012	Maximum 1.52343E-011	
Mean 3.27595E-013	SD 1.16403E-012	Variance 1.35496E-024

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.994618	10% of values less than 1.02427	25% of values less than 1.10037
50% of values less than 1.23231	75% of values less than 1.40771	90% of values less than 1.67568
Minimum 0.927853 than 1.80581	Maximum 2.2551	
Mean 1.28956	SD 0.252005	Variance 0.0635066

Retarded Travel Time to Boiler House Receptor years

05% of values less than 1.77668	10% of values less than 1.83591	25% of values less than 1.97304
50% of values less than 2.21679	75% of values less than 2.54259	90% of values less than 3.00159
Minimum 1.64396s than 3.39594	Maximum 4.52368	
Mean 2.33938	SD 0.510089	Variance 0.260191

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.994618	10% of values less than 1.02427	25% of values less than 1.10037
50% of values less than 1.23231	75% of values less than 1.40771	90% of values less than 1.67568
Minimum 0.927853 than 1.80581	Maximum 2.2551	
Mean 1.28956	SD 0.252005	Variance 0.0635066

Retarded Travel Time to Boiler House Receptor years

05% of values less than 1.79843	10% of values less than 2.02713	25% of values less than 2.47591
50% of values less than 3.37766	75% of values less than 4.17556	90% of values less than 5.20975
Minimum 1.38914s than 5.96569	Maximum 10.1749	
Mean 3.50418	SD 1.32635	Variance 1.7592

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.71563E-012	10% of values less than 5.06655E-012	25% of values less than 4.72752E-011
50% of values less than 8.54632E-010	75% of values less than 1.01635E-008	90% of values less than 6.0829E-008
Minimum 3.11841E-014 1.31732E-007	Maximum 7.43171E-007	
Mean 2.22092E-008	SD 6.43459E-008	Variance 4.14039E-015

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 5.10616E-012	10% of values less than 1.24118E-011	25% of values less than 9.96262E-011
50% of values less than 2.00167E-009	75% of values less than 2.99395E-008	90% of values less than 2.05064E-007
Minimum 4.70936E-015 3.79401E-007	Maximum 1.63416E-006	
Mean 6.55258E-008	SD 1.74153E-007	Variance 3.03292E-014

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.381464	10% of values less than 0.404248	25% of values less than 0.461614
50% of values less than 0.531965	75% of values less than 0.621972	90% of values less than 0.745859
Minimum 0.331062 than 0.81617	Maximum 1.08711	
Mean 0.555687	SD 0.132631	Variance 0.0175911

Retarded Travel Time to ETP Receptor years

05% of values less than 0.684498	10% of values less than 0.731548	25% of values less than 0.824035
50% of values less than 0.964457	75% of values less than 1.1208	90% of values less than 1.33569
Minimum 0.605156 than 1.50442	Maximum 2.21234	
Mean 1.00783	SD 0.258913	Variance 0.0670358

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.381464	10% of values less than 0.404248	25% of values less than 0.461614
50% of values less than 0.531965	75% of values less than 0.621972	90% of values less than 0.745859
Minimum 0.331062 than 0.81617	Maximum 1.08711	
Mean 0.555687	SD 0.132631	Variance 0.0175911

Retarded Travel Time to ETP Receptor years

05% of values less than 0.746062	10% of values less than 0.832701	25% of values less than 1.05713
50% of values less than 1.41804	75% of values less than 1.83152	90% of values less than 2.33862
Minimum 0.536245 than 2.65775	Maximum 4.98087	
Mean 1.50873	SD 0.606493	Variance 0.367833

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 1.24281E-019	10% of values less than 2.53062E-017	25% of values less than 5.85351E-013
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.0es less than 0.044483	Maximum 0.044483	
Mean 0.0254633	SD 0.0220179	Variance 0.000484789

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.44912E-017
50% of values less than 7.72932E-014	75% of values less than 9.11083E-011	90% of values less than 0.009776
Minimum 0.es less than 0.009776	Maximum 0.009776	
Mean 0.00206068	SD 0.00398932	Variance 1.59147E-005

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.169875	10% of values less than 0.190423	25% of values less than 0.237534
50% of values less than 0.292618	75% of values less than 0.364245	90% of values less than 0.439995
Minimum 0.130144 than 0.499947	Maximum 0.709334	
Mean 0.30862	SD 0.100348	Variance 0.0100697

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0.305978	10% of values less than 0.342072	25% of values less than 0.425563
50% of values less than 0.533968	75% of values less than 0.658847	90% of values less than 0.811967
Minimum 0.24358s than 0.901821	Maximum 1.4342	
Mean 0.559541	SD 0.189381	Variance 0.035865

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.169875	10% of values less than 0.190423	25% of values less than 0.237534
50% of values less than 0.292618	75% of values less than 0.364245	90% of values less than 0.439995
Minimum 0.130144 than 0.499947	Maximum 0.709334	
Mean 0.30862	SD 0.100348	Variance 0.0100697

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0.36637	10% of values less than 0.416506	25% of values less than 0.565976
50% of values less than 0.766786	75% of values less than 1.03467	90% of values less than 1.3437
Minimum 0.229395 than 1.56978	Maximum 3.23222	
Mean 0.836936	SD 0.385856	Variance 0.148885

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 9.33544E-006 0.044483	Maximum 0.044483	
Mean 0.0432463	SD 0.00716791	Variance 5.13789E-005

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 6.02622E-005	10% of values less than 0.000310446	25% of values less than 0.00389539
50% of values less than 0.009776	75% of values less than 0.009776	90% of values less than 0.009776
Minimum 3.08827E-008 0.009776	Maximum 0.009776	
Mean 0.00745771	SD 0.00387152	Variance 1.49887E-005

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0358523	10% of values less than 0.0521355	25% of values less than 0.0912275
50% of values less than 0.150445	75% of values less than 0.210176	90% of values less than 0.275791
Minimum 0.00591046	Maximum 0.481391	
Mean 0.158038	SD 0.0862933	Variance 0.00744654

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.0639172	10% of values less than 0.0932897	25% of values less than 0.166637
50% of values less than 0.271794	75% of values less than 0.377963	90% of values less than 0.498152
Minimum 0.0104327	Maximum 0.963602	
Mean 0.286321	SD 0.158846	Variance 0.0252322

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0358523	10% of values less than 0.0521355	25% of values less than 0.0912275
50% of values less than 0.150445	75% of values less than 0.210176	90% of values less than 0.275791
Minimum 0.00591046an 0.31444	Maximum 0.481391	
Mean 0.158038	SD 0.0862933	Variance 0.00744654

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.0864123	10% of values less than 0.128311	25% of values less than 0.227328
50% of values less than 0.381416	75% of values less than 0.564223	90% of values less than 0.809403
Minimum 0.00922267an 0.967855	Maximum 2.16645	
Mean 0.42749	SD 0.277628	Variance 0.0770772

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.044483	Maximum 0.044483	
Mean 0.044483	SD 9.2293E-009	Variance 8.51799E-017

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0.009776	10% of values less than 0.009776	25% of values less than 0.009776
50% of values less than 0.009776	75% of values less than 0.009776	90% of values less than 0.009776
Minimum 0.0001196741 0.009776	Maximum 0.009776	
Mean 0.00948134	SD 0.00144421	Variance 2.08574E-006

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0111883	25% of values less than 0.050232
50% of values less than 0.106931	75% of values less than 0.168698	90% of values less than 0.2366
Minimum 0.es less than 0.287751	Maximum 1E+006	
Mean 25974.1	SD 159137	Variance 2.53247E+010

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 0.0202066	25% of values less than 0.0915307
50% of values less than 0.193446	75% of values less than 0.305591	90% of values less than 0.428595
Minimum 0.es less than 0.512787	Maximum 2.04287E+006	
Mean 46944.8	SD 288331	Variance 8.31348E+010

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0111883	25% of values less than 0.050232
50% of values less than 0.106931	75% of values less than 0.168698	90% of values less than 0.2366
Minimum 0.es less than 0.287751	Maximum 1E+006	
Mean 25974.1	SD 159137	Variance 2.53247E+010

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0	10% of values less than 0.0270128	25% of values less than 0.13321
50% of values less than 0.2695	75% of values less than 0.440834	90% of values less than 0.696907
Minimum 0.es less than 0.903323	Maximum 4.02641E+006	
Mean 64938.5	SD 418122	Variance 1.74826E+011

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.044483	Maximum 0.044483	
Mean 0.0433276	SD 0.0070789	Variance 5.01109E-005

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0.009776	10% of values less than 0.009776	25% of values less than 0.009776
50% of values less than 0.009776	75% of values less than 0.009776	90% of values less than 0.009776
Minimum 0.009776	Maximum 0.009776	
Mean 0.00944395	SD 0.00177173	Variance 3.13902E-006

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.43033	10% of values less than 1.46604	25% of values less than 1.56037
50% of values less than 1.72991	75% of values less than 1.9807	90% of values less than 2.37208
Minimum 1.35962s than 2.51163	Maximum 3.11127	
Mean 1.8205	SD 0.344554	Variance 0.118717

Retarded Travel Time to VC MFB 50m years

05% of values less than 2.5544	10% of values less than 2.62691	25% of values less than 2.80432
50% of values less than 3.11747	75% of values less than 3.60538	90% of values less than 4.19281
Minimum 2.37437s than 4.81161	Maximum 6.27184	
Mean 3.30273	SD 0.702673	Variance 0.49375

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.43033	10% of values less than 1.46604	25% of values less than 1.56037
50% of values less than 1.72991	75% of values less than 1.9807	90% of values less than 2.37208
Minimum 1.35962s than 2.51163	Maximum 3.11127	
Mean 1.8205	SD 0.344554	Variance 0.118717

Retarded Travel Time to VC MFB 50m years

05% of values less than 2.53054	10% of values less than 2.86093	25% of values less than 3.49912
50% of values less than 4.77892	75% of values less than 5.90812	90% of values less than 7.28241
Minimum 1.9985ss than 8.28875	Maximum 13.9327	
Mean 4.94785	SD 1.85933	Variance 3.45709

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 3.97747E-010	10% of values less than 1.34839E-009	25% of values less than 6.52426E-009
50% of values less than 3.38404E-008	75% of values less than 2.03676E-007	90% of values less than 7.09601E-007
Minimum 3.68295E-012 1.39262E-006	Maximum 7.14211E-006	
Mean 2.69086E-007	SD 6.45261E-007	Variance 4.16362E-013

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 8.03979E-010	10% of values less than 4.96965E-009	25% of values less than 4.89065E-008
50% of values less than 3.05798E-007	75% of values less than 1.71586E-006	90% of values less than 5.95376E-006
Minimum 4.06438E-015 1.13127E-005	Maximum 3.91385E-005	
Mean 2.13212E-006	SD 4.59565E-006	Variance 2.112E-011

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.22084	10% of values less than 1.25563	25% of values less than 1.34121
50% of values less than 1.49171	75% of values less than 1.70388	90% of values less than 2.03397
Minimum 1.15188s than 2.17399	Maximum 2.69933	
Mean 1.56504	SD 0.299748	Variance 0.0898487

Retarded Travel Time to Boiler House 50m years

05% of values less than 2.18565	10% of values less than 2.24468	25% of values less than 2.40523
50% of values less than 2.68509	75% of values less than 3.09138	90% of values less than 3.61482
Minimum 2.02294s than 4.13995	Maximum 5.41296	
Mean 2.83922	SD 0.609544	Variance 0.371544

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.22084	10% of values less than 1.25563	25% of values less than 1.34121
50% of values less than 1.49171	75% of values less than 1.70388	90% of values less than 2.03397
Minimum 1.15188s than 2.17399	Maximum 2.69933	
Mean 1.56504	SD 0.299748	Variance 0.0898487

Retarded Travel Time to Boiler House 50m years

05% of values less than 2.1862	10% of values less than 2.46445	25% of values less than 3.01379
50% of values less than 4.10149	75% of values less than 5.07883	90% of values less than 6.26524
Minimum 1.70582s than 7.1608	Maximum 12.1247	
Mean 4.25324	SD 1.60241	Variance 2.56773

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 3.88494E-011	10% of values less than 1.0741E-010	25% of values less than 7.00098E-010
50% of values less than 6.43149E-009	75% of values less than 5.23904E-008	90% of values less than 2.35562E-007
Minimum 3.09387E-013 4.80495E-007	Maximum 2.82363E-006	
Mean 8.739E-008	SD 2.36827E-007	Variance 5.6087E-014

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.22931E-010	10% of values less than 4.65096E-010	25% of values less than 2.16981E-009
50% of values less than 2.48611E-008	75% of values less than 2.8672E-007	90% of values less than 1.37455E-006
Minimum 8.18143E-015 2.29489E-006	Maximum 9.85107E-006	
Mean 4.32515E-007	SD 1.05451E-006	Variance 1.11198E-012

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB 50m years

05% of values less than 2.7283	10% of values less than 2.80483	25% of values less than 2.98627
50% of values less than 3.32009	75% of values less than 3.84376	90% of values less than 4.4612
Minimum 2.53854s than 5.12459	Maximum 6.67307	
Mean 3.51926	SD 0.746383	Variance 0.557087

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB 50m years

05% of values less than 2.70003	10% of values less than 3.0465	25% of values less than 3.72174
50% of values less than 5.0906	75% of values less than 6.29602	90% of values less than 7.75498
Minimum 2.13523s than 8.82554	Maximum 14.7773	
Mean 5.27234	SD 1.97955	Variance 3.9186

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 1.02923E-018	10% of values less than 3.36091E-018	25% of values less than 2.93248E-017
50% of values less than 4.43064E-016	75% of values less than 7.00643E-015	90% of values less than 5.6369E-014
Minimum 2.12121E-021 1.69982E-013	Maximum 1.72323E-012	
Mean 2.93175E-014	SD 1.13715E-013	Variance 1.2931E-026

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 3.13377E-018	10% of values less than 2.26501E-017	25% of values less than 2.64296E-016
50% of values less than 5.08085E-015	75% of values less than 8.45264E-014	90% of values less than 6.83885E-013
Minimum 3.39033E-024 1.7728E-012	Maximum 1.52343E-011	
Mean 3.27595E-013	SD 1.16403E-012	Variance 1.35496E-024

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.995304	10% of values less than 1.025	25% of values less than 1.10112
50% of values less than 1.23303	75% of values less than 1.40854	90% of values less than 1.67677
Minimum 0.928516 than 1.80686	Maximum 2.25641	
Mean 1.29037	SD 0.252145	Variance 0.0635772

Retarded Travel Time to BH Lead 50m years

05% of values less than 1.77787	10% of values less than 1.83707	25% of values less than 1.97434
50% of values less than 2.21806	75% of values less than 2.54422	90% of values less than 3.00331
Minimum 1.64508s than 3.39814	Maximum 4.52625	
Mean 2.34085	SD 0.510381	Variance 0.260489

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.995304	10% of values less than 1.025	25% of values less than 1.10112
50% of values less than 1.23303	75% of values less than 1.40854	90% of values less than 1.67677
Minimum 0.928516 than 1.80686	Maximum 2.25641	
Mean 1.29037	SD 0.252145	Variance 0.0635772

Retarded Travel Time to BH Lead 50m years

05% of values less than 1.79953	10% of values less than 2.02842	25% of values less than 2.47761
50% of values less than 3.37982	75% of values less than 4.17816	90% of values less than 5.21273
Minimum 1.39009s than 5.9694	Maximum 10.1807	
Mean 3.5064	SD 1.32716	Variance 1.76136

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.32114E-011	10% of values less than 3.84947E-011	25% of values less than 3.0514E-010
50% of values less than 4.21575E-009	75% of values less than 4.53952E-008	90% of values less than 2.22682E-007
Minimum 2.34964E-013 4.76877E-007	Maximum 2.51315E-006	
Mean 8.15505E-008	SD 2.24272E-007	Variance 5.02979E-014

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.55126E-011	10% of values less than 8.63637E-011	25% of values less than 6.41688E-010
50% of values less than 1.0097E-008	75% of values less than 1.30981E-007	90% of values less than 7.47308E-007
Minimum 2.64138E-014 1.35926E-006	Maximum 5.5337E-006	
Mean 2.41032E-007	SD 6.09027E-007	Variance 3.70914E-013

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.767841	10% of values less than 0.795048	25% of values less than 0.859036
50% of values less than 0.972736	75% of values less than 1.11012	90% of values less than 1.31684
Minimum 0.704489	Maximum 1.81218	
Mean 1.01489	SD 0.205405	Variance 0.0421911

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.37537	10% of values less than 1.42152	25% of values less than 1.54779
50% of values less than 1.7433	75% of values less than 1.99275	90% of values less than 2.38028
Minimum 1.26448s	Maximum 3.6586	
Mean 1.84101	SD 0.412647	Variance 0.170277

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.767841	10% of values less than 0.795048	25% of values less than 0.859036
50% of values less than 0.972736	75% of values less than 1.11012	90% of values less than 1.31684
Minimum 0.704489	Maximum 1.81218	
Mean 1.01489	SD 0.205405	Variance 0.0421911

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.40607	10% of values less than 1.59111	25% of values less than 1.95458
50% of values less than 2.64318	75% of values less than 3.30056	90% of values less than 4.13829
Minimum 1.06992	Maximum 8.23091	
Mean 2.75733	SD 1.05291	Variance 1.10861

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 9.7204E-014	10% of values less than 2.67531E-013	25% of values less than 4.90558E-012
50% of values less than 1.9561E-010	75% of values less than 3.90701E-009	90% of values less than 3.13356E-008
Minimum 2.18278E-015 6.44277E-008	Maximum 3.7007E-007	
Mean 1.1266E-008	SD 3.39825E-008	Variance 1.15481E-015

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.49016E-013	10% of values less than 5.37621E-013	25% of values less than 6.26903E-012
50% of values less than 2.56768E-010	75% of values less than 7.00084E-009	90% of values less than 5.84002E-008
Minimum 7.139E-016an 1.27758E-007	Maximum 5.31594E-007	
Mean 1.97777E-008	SD 5.59766E-008	Variance 3.13338E-015

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.30408	10% of values less than 1.34023	25% of values less than 1.43135
50% of values less than 1.58816	75% of values less than 1.81247	90% of values less than 2.16392
Minimum 1.23518s than 2.30796	Maximum 2.8645	
Mean 1.66747	SD 0.317664	Variance 0.10091

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 2.33501	10% of values less than 2.39853	25% of values less than 2.56682
50% of values less than 2.85409	75% of values less than 3.2991	90% of values less than 3.84219
Minimum 2.16385s than 4.41658	Maximum 5.75733	
Mean 3.02507	SD 0.646802	Variance 0.418353

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.30408	10% of values less than 1.34023	25% of values less than 1.43135
50% of values less than 1.58816	75% of values less than 1.81247	90% of values less than 2.16392
Minimum 1.23518s than 2.30796	Maximum 2.8645	
Mean 1.66747	SD 0.317664	Variance 0.10091

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 2.32545	10% of values less than 2.62704	25% of values less than 3.21775
50% of values less than 4.37493	75% of values less than 5.4056	90% of values less than 6.67643
Minimum 1.82317s than 7.60918	Maximum 12.8496	
Mean 4.53175	SD 1.70534	Variance 2.90819

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.95835E-019	10% of values less than 7.23732E-019	25% of values less than 6.5464E-018
50% of values less than 1.30124E-016	75% of values less than 2.62555E-015	90% of values less than 2.66477E-014
Minimum 4.66824E-022 6.82348E-014	Maximum 6.93029E-013	
Mean 1.25909E-014	SD 4.98561E-014	Variance 2.48563E-027

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 4.9198E-019	10% of values less than 2.45145E-018	25% of values less than 3.82968E-017
50% of values less than 8.14347E-016	75% of values less than 1.59138E-014	90% of values less than 1.57502E-013
Minimum 2.88893E-024 4.43092E-013	Maximum 4.22968E-012	
Mean 8.57167E-014	SD 3.23292E-013	Variance 1.04518E-025

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.236527	10% of values less than 0.257705	25% of values less than 0.306502
50% of values less than 0.365595	75% of values less than 0.44272	90% of values less than 0.534799
Minimum 0.191066 than 0.599014	Maximum 0.822736	
Mean 0.383536	SD 0.109215	Variance 0.011928

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0.423051	10% of values less than 0.462617	25% of values less than 0.546415
50% of values less than 0.662872	75% of values less than 0.798289	90% of values less than 0.973149
Minimum 0.353217 than 1.06257	Maximum 1.67014	
Mean 0.69547	SD 0.208602	Variance 0.0435149

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.236527	10% of values less than 0.257705	25% of values less than 0.306502
50% of values less than 0.365595	75% of values less than 0.44272	90% of values less than 0.534799
Minimum 0.191066 than 0.599014	Maximum 0.822736	
Mean 0.383536	SD 0.109215	Variance 0.011928

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0.484306	10% of values less than 0.546834	25% of values less than 0.712386
50% of values less than 0.961224	75% of values less than 1.26456	90% of values less than 1.65119
Minimum 0.325799 than 1.87865	Maximum 3.76244	
Mean 1.04064	SD 0.449443	Variance 0.201999

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.0es less than 0.044483	Maximum 0.044483	
Mean 0.0411057	SD 0.0117884	Variance 0.000138966

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.009776	75% of values less than 0.009776	90% of values less than 0.009776
Minimum 0.es less than 0.009776	Maximum 0.009776	
Mean 0.0053226	SD 0.00487108	Variance 2.37274E-005

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.279499	10% of values less than 0.299514	25% of values less than 0.351912
50% of values less than 0.415357	75% of values less than 0.493364	90% of values less than 0.595952
Minimum 0.231715 than 0.659834	Maximum 0.898401	
Mean 0.433522	SD 0.115639	Variance 0.0133723

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 0.499005	10% of values less than 0.539027	25% of values less than 0.627771
50% of values less than 0.75097	75% of values less than 0.897096	90% of values less than 1.08092
Minimum 0.426369 than 1.19062	Maximum 1.82758	
Mean 0.786165	SD 0.222466	Variance 0.0494913

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.279499	10% of values less than 0.299514	25% of values less than 0.351912
50% of values less than 0.415357	75% of values less than 0.493364	90% of values less than 0.595952
Minimum 0.231715 than 0.659834	Maximum 0.898401	
Mean 0.433522	SD 0.115639	Variance 0.0133723

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 0.560356	10% of values less than 0.63057	25% of values less than 0.815103
50% of values less than 1.08976	75% of values less than 1.42781	90% of values less than 1.8488
Minimum 0.390123 than 2.12059	Maximum 4.11622	
Mean 1.17655	SD 0.493826	Variance 0.243864

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0.00145989	10% of values less than 0.00282069	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.0001690881 0.044483	Maximum 0.044483	
Mean 0.0382716	SD 0.0149361	Variance 0.000223087

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0.00040661	10% of values less than 0.000649532	25% of values less than 0.00187616
50% of values less than 0.00513424	75% of values less than 0.009776	90% of values less than 0.009776
Minimum 8.47683E-006 0.009776	Maximum 0.009776	
Mean 0.00562121	SD 0.00380253	Variance 1.44593E-005

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.615094	10% of values less than 0.637542	25% of values less than 0.70226
50% of values less than 0.793903	75% of values less than 0.916248	90% of values less than 1.09128
Minimum 0.555089	Maximum 1.51592	
Mean 0.831171	SD 0.175191	Variance 0.0306918

Retarded Travel Time to ETP 50m years

05% of values less than 1.09674	10% of values less than 1.14904	25% of values less than 1.25935
50% of values less than 1.43131	75% of values less than 1.64539	90% of values less than 1.96432
Minimum 1.00683	Maximum 3.07999	
Mean 1.50767	SD 0.349145	Variance 0.121902

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.615094	10% of values less than 0.637542	25% of values less than 0.70226
50% of values less than 0.793903	75% of values less than 0.916248	90% of values less than 1.09128
Minimum 0.555089	Maximum 1.51592	
Mean 0.831171	SD 0.175191	Variance 0.0306918

Retarded Travel Time to ETP 50m years

05% of values less than 1.14698	10% of values less than 1.28844	25% of values less than 1.59443
50% of values less than 2.15086	75% of values less than 2.71013	90% of values less than 3.38876
Minimum 0.85641	Maximum 6.93064	
Mean 2.2578	SD 0.871864	Variance 0.760147

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 2.0185E-015	10% of values less than 8.03781E-015	25% of values less than 2.58634E-013
50% of values less than 2.5112E-011	75% of values less than 1.07319E-009	90% of values less than 1.0298E-008
Minimum 3.35251E-017 2.63874E-008	Maximum 1.37372E-007	
Mean 4.12572E-009	SD 1.31475E-008	Variance 1.72856E-016

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 1.77388E-015	10% of values less than 1.00553E-014	25% of values less than 2.98882E-013
50% of values less than 2.86159E-011	75% of values less than 1.66971E-009	90% of values less than 1.85979E-008
Minimum 1.01557E-017 4.47998E-008	Maximum 0.009776	
Mean 0.000156265	SD 0.00122665	Variance 1.50468E-006

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.404667	10% of values less than 0.430199	25% of values less than 0.486896
50% of values less than 0.560295	75% of values less than 0.652873	90% of values less than 0.780191
Minimum 0.354171 than 0.854412	Maximum 1.13109	
Mean 0.584104	SD 0.136794	Variance 0.0187125

Retarded Travel Time to Tank Farm 50m years

05% of values less than 0.727455	10% of values less than 0.774738	25% of values less than 0.867851
50% of values less than 1.0114	75% of values less than 1.17619	90% of values less than 1.3976
Minimum 0.646743 than 1.58304	Maximum 2.30184	
Mean 1.05939	SD 0.267796	Variance 0.0717146

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.404667	10% of values less than 0.430199	25% of values less than 0.486896
50% of values less than 0.560295	75% of values less than 0.652873	90% of values less than 0.780191
Minimum 0.354171 than 0.854412	Maximum 1.13109	
Mean 0.584104	SD 0.136794	Variance 0.0187125

Retarded Travel Time to Tank Farm 50m years

05% of values less than 0.7906	10% of values less than 0.881946	25% of values less than 1.11588
50% of values less than 1.48877	75% of values less than 1.92785	90% of values less than 2.4447
Minimum 0.569271 than 2.79823	Maximum 5.18199	
Mean 1.586	SD 0.633305	Variance 0.401075

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0.000150395	10% of values less than 0.000310696	25% of values less than 0.00108089
50% of values less than 0.00550479	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 1.43311E-005 0.044483	Maximum 0.044483	
Mean 0.0220711	SD 0.0213869	Variance 0.0004574

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 6.17745E-005	10% of values less than 0.000120475	25% of values less than 0.00035789
50% of values less than 0.00134691	75% of values less than 0.00392267	90% of values less than 0.009776
Minimum 2.15779E-006 0.009776	Maximum 0.009776	
Mean 0.00294373	SD 0.00348982	Variance 1.21789E-005

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.79413	10% of values less than 2.84064	25% of values less than 2.99096
50% of values less than 3.29981	75% of values less than 3.80162	90% of values less than 4.53248
Minimum 2.71033s than 4.76031	Maximum 5.81263	
Mean 3.4957	SD 0.643385	Variance 0.413944

Retarded Travel Time to DCE Receptor years

05% of values less than 4.95604	10% of values less than 5.10413	25% of values less than 5.38566
50% of values less than 5.98903	75% of values less than 6.88905	90% of values less than 7.99277
Minimum 4.6628ss than 9.35415	Maximum 11.9041	
Mean 6.34225	SD 1.32173	Variance 1.74696

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.79413	10% of values less than 2.84064	25% of values less than 2.99096
50% of values less than 3.29981	75% of values less than 3.80162	90% of values less than 4.53248
Minimum 2.71033s than 4.76031	Maximum 5.81263	
Mean 3.4957	SD 0.643385	Variance 0.413944

Retarded Travel Time to DCE Receptor years

05% of values less than 4.88223	10% of values less than 5.51372	25% of values less than 6.71727
50% of values less than 9.14495	75% of values less than 11.3982	90% of values less than 13.9297
Minimum 3.91783s than 15.929	Maximum 25.7891	
Mean 9.50286	SD 3.55225	Variance 12.6184

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.12294E-010	10% of values less than 7.9935E-010	25% of values less than 1.11213E-008
50% of values less than 1.35079E-007	75% of values less than 9.31804E-007	90% of values less than 2.9302E-006
Minimum 1.64111E-014 4.94679E-006	Maximum 2.10321E-005	
Mean 9.67368E-007	SD 2.05343E-006	Variance 4.21658E-012

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 8.55606E-010	10% of values less than 3.12297E-008	25% of values less than 3.08119E-006
50% of values less than 4.79518E-005	75% of values less than 0.000208102	90% of values less than 0.000441395
Minimum 1.24413E-018 0.000643911	Maximum 0.00141006	
Mean 0.000149381	SD 0.000228737	Variance 5.23208E-008

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.8778	10% of values less than 2.92466	25% of values less than 3.08096
50% of values less than 3.3994	75% of values less than 3.91466	90% of values less than 4.66655
Minimum 2.79317s than 4.90249	Maximum 5.97928	
Mean 3.59904	SD 0.661949	Variance 0.438176

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 5.10619	10% of values less than 5.25463	25% of values less than 5.54812
50% of values less than 6.16387	75% of values less than 7.09466	90% of values less than 8.2213
Minimum 4.80248s than 9.63326	Maximum 12.2515	
Mean 6.52976	SD 1.36013	Variance 1.84995

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.8778	10% of values less than 2.92466	25% of values less than 3.08096
50% of values less than 3.3994	75% of values less than 3.91466	90% of values less than 4.66655
Minimum 2.79317s than 4.90249	Maximum 5.97928	
Mean 3.59904	SD 0.661949	Variance 0.438176

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 5.02998	10% of values less than 5.68179	25% of values less than 6.91327
50% of values less than 9.41824	75% of values less than 11.7368	90% of values less than 14.357
Minimum 4.03623s than 16.4136	Maximum 26.5206	
Mean 9.78386	SD 3.65689	Variance 13.3728

Tank Farm Lagoon CHCs - 1,2-Dichloroethene (1,2-DCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 7.47729E-012	10% of values less than 4.95222E-011	25% of values less than 8.14515E-010
50% of values less than 1.13511E-008	75% of values less than 8.28133E-008	90% of values less than 3.59441E-007
Minimum 3.80477E-016 6.33875E-007	Maximum 4.1787E-006	
Mean 1.18299E-007	SD 2.96785E-007	Variance 8.80812E-014

Tank Farm Lagoon CHCs - Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 9.44893E-011	10% of values less than 2.74504E-009	25% of values less than 2.32991E-007
50% of values less than 4.52835E-006	75% of values less than 2.25868E-005	90% of values less than 7.00015E-005
Minimum 3.40127E-020 0.000112781	Maximum 0.000440423	
Mean 2.26127E-005	SD 4.43563E-005	Variance 1.96748E-009

Source Inventory:*Trichloroethene (TCE)*

Aquifer Source Concentration [mg/l] SINGLE(0.009125)

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.22792	10% of values less than 1.25626	25% of values less than 1.32354
50% of values less than 1.45133	75% of values less than 1.68508	90% of values less than 1.97574
Minimum 1.15565s than 2.11069	Maximum 2.61173	
Mean 1.53864	SD 0.28282	Variance 0.0799874

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 2.17789	10% of values less than 2.41477	25% of values less than 2.9828
50% of values less than 3.97659	75% of values less than 5.01775	90% of values less than 6.15392
Minimum 1.74876s than 7.01603	Maximum 10.9213	
Mean 4.18447	SD 1.57106	Variance 2.46822

TCE - waste/oil - Trichloroethene (TCE)

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 5.90174E-010	10% of values less than 2.40857E-009	25% of values less than 1.53249E-008
50% of values less than 6.39482E-008	75% of values less than 2.13308E-007	90% of values less than 6.24016E-007
Minimum 3.79109E-014 8.37188E-007	Maximum 2.33454E-006	
Mean 1.94808E-007	SD 3.17232E-007	Variance 1.00636E-013

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.55476	10% of values less than 1.58235	25% of values less than 1.66385
50% of values less than 1.82022	75% of values less than 2.11407	90% of values less than 2.49693
Minimum 1.47299s than 2.64786	Maximum 3.24683	
Mean 1.93532	SD 0.353647	Variance 0.125066

Retarded Travel Time to Lead MFB years

05% of values less than 2.72104	10% of values less than 3.04573	25% of values less than 3.74433
50% of values less than 5.00814	75% of values less than 6.32145	90% of values less than 7.73312
Minimum 2.22174s than 8.81457	Maximum 13.5679	
Mean 5.26308	SD 1.97214	Variance 3.88932

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 7.76591E-007	10% of values less than 4.97413E-006	25% of values less than 6.36876E-005
50% of values less than 0.000307747	75% of values less than 0.000710386	90% of values less than 0.00110757
Minimum 1.21877E-011 0.00127139	Maximum 0.00183588	
Mean 0.000433731	SD 0.000424874	Variance 1.80518E-007

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 1.02085	10% of values less than 1.04596	25% of values less than 1.10459
50% of values less than 1.21227	75% of values less than 1.40945	90% of values less than 1.65123
Minimum 0.952773 than 1.77	Maximum 2.20571	
Mean 1.28504	SD 0.237841	Variance 0.0565686

Retarded Travel Time to Boiler House Receptor years

05% of values less than 1.81569	10% of values less than 2.01344	25% of values less than 2.48867
50% of values less than 3.3179	75% of values less than 4.18729	90% of values less than 5.15452
Minimum 1.44463s than 5.88178	Maximum 9.22933	
Mean 3.49492	SD 1.31508	Variance 1.72944

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.41317	10% of values less than 0.432569	25% of values less than 0.469563
50% of values less than 0.525068	75% of values less than 0.610644	90% of values less than 0.714845
Minimum 0.365685 than 0.778017	Maximum 1.03077	
Mean 0.55117	SD 0.111941	Variance 0.0125308

Retarded Travel Time to ETP Receptor years

05% of values less than 0.751832	10% of values less than 0.85257	25% of values less than 1.0573
50% of values less than 1.40966	75% of values less than 1.79646	90% of values less than 2.24654
Minimum 0.564539 than 2.60763	Maximum 4.33308	
Mean 1.49947	SD 0.580983	Variance 0.337541

TCE - waste/oil - Trichloroethene (TCE)

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.009125
Minimum 0.es less than 0.009125	Maximum 0.009125	
Mean 0.00183229	SD 0.00365729	Variance 1.33757E-005

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.201907	10% of values less than 0.21682	25% of values less than 0.250256
50% of values less than 0.294983	75% of values less than 0.346659	90% of values less than 0.407195
Minimum 0.165417 than 0.451948	Maximum 0.635208	
Mean 0.304103	SD 0.0751107	Variance 0.00564161

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 0.392596	10% of values less than 0.455322	25% of values less than 0.575125
50% of values less than 0.77333	75% of values less than 1.01157	90% of values less than 1.29193
Minimum 0.268243 than 1.46893	Maximum 2.68468	
Mean 0.82767	SD 0.344111	Variance 0.118412

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.009125	75% of values less than 0.009125	90% of values less than 0.009125
Minimum 0.000000	Maximum 0.009125	
Mean 0.00681868	SD 0.00396759	Variance 1.57418E-005

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0675069	10% of values less than 0.0798482	25% of values less than 0.108844
50% of values less than 0.148773	75% of values less than 0.191049	90% of values less than 0.229412
Minimum 0.04330281	Maximum 0.394122	
Mean 0.15352	SD 0.0583416	Variance 0.00340374

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 0.150027	10% of values less than 0.181879	25% of values less than 0.256888
50% of values less than 0.3706	75% of values less than 0.531363	90% of values less than 0.723567
Minimum 0.08396841	Maximum 1.68002	
Mean 0.418224	SD 0.215627	Variance 0.0464951

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0.009125	10% of values less than 0.009125	25% of values less than 0.009125
50% of values less than 0.009125	75% of values less than 0.009125	90% of values less than 0.009125
Minimum 0.000000	Maximum 0.009125	
Mean 0.00896091	SD 0.00121319	Variance 1.47183E-006

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0.0198744	10% of values less than 0.0314431	25% of values less than 0.0607132
50% of values less than 0.101259	75% of values less than 0.139663	90% of values less than 0.172612
Minimum 0.00254951an 0.195294	Maximum 0.314094	
Mean 0.103534	SD 0.0546735	Variance 0.0029892

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 0.0490913	10% of values less than 0.0733982	25% of values less than 0.151533
50% of values less than 0.249922	75% of values less than 0.378458	90% of values less than 0.526946
Minimum 0.00572635an 0.619673	Maximum 1.34653	
Mean 0.282309	SD 0.1815	Variance 0.0329422

TCE - waste/oil - Trichloroethene (TCE)

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0.009125	10% of values less than 0.009125	25% of values less than 0.009125
50% of values less than 0.009125	75% of values less than 0.009125	90% of values less than 0.009125
Minimum 0.00162232an 0.009125	Maximum 0.009125	
Mean 0.0091008	SD 0.000386797	Variance 1.49612E-007

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.457	10% of values less than 1.4835	25% of values less than 1.56002
50% of values less than 1.7091	75% of values less than 1.98668	90% of values less than 2.3421
Minimum 1.37752s than 2.48801	Maximum 3.05576	
Mean 1.81598	SD 0.332296	Variance 0.110421

Retarded Travel Time to VC MFB 50m years

05% of values less than 2.55764	10% of values less than 2.86337	25% of values less than 3.51954
50% of values less than 4.69618	75% of values less than 5.92595	90% of values less than 7.25011
Minimum 2.08137s than 8.25216	Maximum 12.7717	
Mean 4.93859	SD 1.85141	Variance 3.42772

TCE - waste/oil - Trichloroethene (TCE)

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.69865E-009	10% of values less than 8.82096E-009	25% of values less than 8.06886E-008
50% of values less than 3.93396E-007	75% of values less than 1.17785E-006	90% of values less than 3.026E-006
Minimum 3.64985E-014 4.11273E-006	Maximum 1.04529E-005	
Mean 1.0018E-006	SD 1.51379E-006	Variance 2.29156E-012

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.24572	10% of values less than 1.27457	25% of values less than 1.34223
50% of values less than 1.4715	75% of values less than 1.70882	90% of values less than 2.00429
Minimum 1.17316s than 2.14003	Maximum 2.64677	
Mean 1.56052	SD 0.286715	Variance 0.0822057

Retarded Travel Time to Boiler House 50m years

05% of values less than 2.20785	10% of values less than 2.44998	25% of values less than 3.02715
50% of values less than 4.03167	75% of values less than 5.08941	90% of values less than 6.24016
Minimum 1.77501s than 7.11357	Maximum 11.0673	
Mean 4.24398	SD 1.59316	Variance 2.53817

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.55476	10% of values less than 1.58235	25% of values less than 1.66385
50% of values less than 1.82022	75% of values less than 2.11407	90% of values less than 2.49693
Minimum 1.47299s than 2.64786	Maximum 3.24683	
Mean 1.93532	SD 0.353647	Variance 0.125066

Retarded Travel Time to Lead MFB 50m years

05% of values less than 2.72104	10% of values less than 3.04573	25% of values less than 3.74433
50% of values less than 5.00814	75% of values less than 6.32145	90% of values less than 7.73312
Minimum 2.22174s than 8.81457	Maximum 13.5679	
Mean 5.26308	SD 1.97214	Variance 3.88932

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 7.76591E-007	10% of values less than 4.97413E-006	25% of values less than 6.36876E-005
50% of values less than 0.000307747	75% of values less than 0.000710386	90% of values less than 0.00110757
Minimum 1.21877E-011 0.00127139	Maximum 0.00183588	
Mean 0.000433731	SD 0.000424874	Variance 1.80518E-007

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 1.02152	10% of values less than 1.04662	25% of values less than 1.1053
50% of values less than 1.21305	75% of values less than 1.41032	90% of values less than 1.6522
Minimum 0.953425 than 1.77115	Maximum 2.20702	
Mean 1.28585	SD 0.237985	Variance 0.0566371

Retarded Travel Time to BH Lead 50m years

05% of values less than 1.81689	10% of values less than 2.01472	25% of values less than 2.49023
50% of values less than 3.32011	75% of values less than 4.18996	90% of values less than 5.15773
Minimum 1.44561s than 5.88564	Maximum 9.23477	
Mean 3.49713	SD 1.31591	Variance 1.73161

TCE - waste/oil - Trichloroethene (TCE)

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.795086	10% of values less than 0.818939	25% of values less than 0.872737
50% of values less than 0.954524	75% of values less than 1.11044	90% of values less than 1.30216
Minimum 0.73304s than 1.3989	Maximum 1.76596	
Mean 1.01037	SD 0.18962	Variance 0.0359558

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.43195	10% of values less than 1.5702	25% of values less than 1.95767
50% of values less than 2.61425	75% of values less than 3.29795	90% of values less than 4.07208
Minimum 1.11524s than 4.59554	Maximum 7.39678	
Mean 2.74807	SD 1.03858	Variance 1.07866

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.32931	10% of values less than 1.35847	25% of values less than 1.4298
50% of values less than 1.56613	75% of values less than 1.81883	90% of values less than 2.1369
Minimum 1.2551ss than 2.27737	Maximum 2.81076	
Mean 1.66295	SD 0.304968	Variance 0.0930054

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 2.3481	10% of values less than 2.61266	25% of values less than 3.22344
50% of values less than 4.29668	75% of values less than 5.42482	90% of values less than 6.64381
Minimum 1.89784s than 7.57009	Maximum 11.7507	
Mean 4.52248	SD 1.69667	Variance 2.87871

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 2.55776E-006	10% of values less than 1.24517E-005	25% of values less than 0.000112068
50% of values less than 0.000428845	75% of values less than 0.000883674	90% of values less than 0.00129676
Minimum 2.01266E-010 0.00151317	Maximum 0.00213878	
Mean 0.000547562	SD 0.000492385	Variance 2.42443E-007

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.266087	10% of values less than 0.283352	25% of values less than 0.316953
50% of values less than 0.364257	75% of values less than 0.424703	90% of values less than 0.500514
Minimum 0.226169	Maximum 0.755151	
Mean 0.379018	SD 0.085488	Variance 0.0073082

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 0.503063	10% of values less than 0.578298	25% of values less than 0.723288
50% of values less than 0.96148	75% of values less than 1.24434	90% of values less than 1.5808
Minimum 0.358086	Maximum 3.18451	
Mean 1.03137	SD 0.414224	Variance 0.171581

TCE - waste/oil - Trichloroethene (TCE)

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0.000610859	10% of values less than 0.00110097	25% of values less than 0.00198665
50% of values less than 0.009125	75% of values less than 0.009125	90% of values less than 0.009125
Minimum 5.3734E-005n 0.009125	Maximum 0.009125	
Mean 0.00581243	SD 0.00360743	Variance 1.30135E-005

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.309705	10% of values less than 0.326279	25% of values less than 0.360474
50% of values less than 0.409644	75% of values less than 0.477693	90% of values less than 0.560845
Minimum 0.266704 than 0.6151	Maximum 0.835179	
Mean 0.429004	SD 0.0928689	Variance 0.00862464

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 0.576706	10% of values less than 0.656638	25% of values less than 0.823342
50% of values less than 1.08622	75% of values less than 1.40541	90% of values less than 1.77202
Minimum 0.418032 than 2.04194	Maximum 3.51801	
Mean 1.16729	SD 0.462043	Variance 0.213483

TCE - waste/oil - Trichloroethene (TCE)

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.009125	90% of values less than 0.009125
Minimum 0.es less than 0.009125	Maximum 0.009125	
Mean 0.00374663	SD 0.0044912	Variance 2.01709E-005

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.642323	10% of values less than 0.664404	25% of values less than 0.711054
50% of values less than 0.781667	75% of values less than 0.908005	90% of values less than 1.06908
Minimum 0.586069 than 1.14735	Maximum 1.47183	
Mean 0.826654	SD 0.157881	Variance 0.0249266

Retarded Travel Time to ETP 50m years

05% of values less than 1.16766	10% of values less than 1.27247	25% of values less than 1.5942
50% of values less than 2.131	75% of values less than 2.69667	90% of values less than 3.34808
Minimum 0.894914 than 3.81308	Maximum 6.17106	
Mean 2.24853	SD 0.854433	Variance 0.730056

TCE - waste/oil - Trichloroethene (TCE)

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.009125	
Mean 0.000109391	SD 0.000993584	Variance 9.87209E-007

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.437872	10% of values less than 0.456578	25% of values less than 0.494901
50% of values less than 0.550502	75% of values less than 0.641867	90% of values less than 0.749713
Minimum 0.388418 than 0.816672	Maximum 1.07627	
Mean 0.579587	SD 0.116531	Variance 0.0135795

Retarded Travel Time to Tank Farm 50m years

05% of values less than 0.79695	10% of values less than 0.895748	25% of values less than 1.11438
50% of values less than 1.48492	75% of values less than 1.89273	90% of values less than 2.35859
Minimum 0.598619 than 2.72592	Maximum 4.52267	
Mean 1.57673	SD 0.608936	Variance 0.370804

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.009125
Minimum 0.es less than 0.009125	Maximum 0.009125	
Mean 0.00153147	SD 0.00341187	Variance 1.16409E-005

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.82334	10% of values less than 2.8518	25% of values less than 3.00475
50% of values less than 3.28216	75% of values less than 3.80351	90% of values less than 4.50117
Minimum 2.71766s than 4.75235	Maximum 5.7378	
Mean 3.49118	SD 0.633531	Variance 0.401361

Retarded Travel Time to DCE Receptor years

05% of values less than 4.88828	10% of values less than 5.48235	25% of values less than 6.75327
50% of values less than 9.07175	75% of values less than 11.4314	90% of values less than 13.926
Minimum 4.00433s than 15.9217	Maximum 24.3174	
Mean 9.49359	SD 3.54828	Variance 12.5903

TCE - waste/oil - Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.00594E-014	10% of values less than 3.34499E-013	25% of values less than 2.42188E-011
50% of values less than 4.33972E-010	75% of values less than 2.11683E-009	90% of values less than 6.80688E-009
Minimum 4.91442E-023 1.09737E-008	Maximum 4.06984E-008	
Mean 2.34959E-009	SD 4.88636E-009	Variance 2.38765E-017

TCE - waste/oil - Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.90729	10% of values less than 2.93684	25% of values less than 3.09272
50% of values less than 3.37834	75% of values less than 3.91688	90% of values less than 4.63556
Minimum 2.80034s than 4.89042	Maximum 5.90326	
Mean 3.59452	SD 0.652172	Variance 0.425329

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 5.03223	10% of values less than 5.64467	25% of values less than 6.95427
50% of values less than 9.34591	75% of values less than 11.7643	90% of values less than 14.335
Minimum 4.12274s than 16.3858	Maximum 25.0488	
Mean 9.77459	SD 3.65305	Variance 13.3447

TCE - waste/oil - Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.16793E-024	10% of values less than 4.51218E-023	25% of values less than 3.57469E-021
50% of values less than 7.76207E-020	75% of values less than 5.29247E-019	90% of values less than 2.95199E-018
Minimum 0.es less than 5.1926E-018	Maximum 3.22108E-017	
Mean 1.09021E-018	SD 3.21767E-018	Variance 1.03534E-035

Source Inventory:

Lead

Aquifer Source Concentration [mg/l] SINGLE(0.002115)

Lead Boiler House - Lead

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.521541	10% of values less than 0.55998	25% of values less than 0.647046
50% of values less than 0.745864	75% of values less than 0.86655	90% of values less than 1.0307
Minimum 0.432271 than 1.14117	Maximum 1.50339	
Mean 0.774648	SD 0.182275	Variance 0.0332241

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 1469.32	10% of values less than 1584.57	25% of values less than 1889.07
50% of values less than 2192.63	75% of values less than 2672.73	90% of values less than 3335.31
Minimum 1131.17s than 3898.1	Maximum 6075.87	
Mean 2375.3	SD 763.391	Variance 582766

Lead Boiler House - Lead

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.854295	10% of values less than 0.900008	25% of values less than 1.0025
50% of values less than 1.11633	75% of values less than 1.30275	90% of values less than 1.52626
Minimum 0.750207 than 1.66367	Maximum 2.13848	
Mean 1.17133	SD 0.242579	Variance 0.0588444

Retarded Travel Time to Lead MFB years

05% of values less than 2355.11	10% of values less than 2513.67	25% of values less than 2880.72
50% of values less than 3300	75% of values less than 3974.37	90% of values less than 4972.43
Minimum 1933.48s than 5886.72	Maximum 8629.78	
Mean 3593.11	SD 1083.1	Variance 1.1731E+006

Lead Boiler House - Lead

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.304763	10% of values less than 0.335315	25% of values less than 0.415025
50% of values less than 0.506189	75% of values less than 0.601885	90% of values less than 0.724412
Minimum 0.229012	Maximum 1.09737	
Mean 0.521048	SD 0.149149	Variance 0.0222454

Retarded Travel Time to Boiler House Receptor years

05% of values less than 878.466	10% of values less than 976.555	25% of values less than 1215.36
50% of values less than 1471.77	75% of values less than 1851.19	90% of values less than 2347.4
Minimum 618.243s	Maximum 4443.13	
Mean 1596.74	SD 576.255	Variance 332069

Lead Boiler House - Lead

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 2.63223E-007	10% of values less than 2.07553E-006	25% of values less than 2.15108E-005
50% of values less than 0.00013484	75% of values less than 0.00046202	90% of values less than 0.000946729
Minimum 2.22197E-012 0.00120086	Maximum 0.00181926	
Mean 0.000312488	SD 0.00039595	Variance 1.56776E-007

Lead Boiler House - Lead

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 978022	SD 146685	Variance 2.15165E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 2.11845E+009	10% of values less than 2.28713E+009	25% of values less than 2.59112E+009
50% of values less than 2.99491E+009	75% of values less than 3.45968E+009	90% of values less than 3.86113E+009
Minimum 0.es less than 4.10811E+009	Maximum 4.82854E+009	
Mean 2.99656E+009	SD 7.28216E+008	Variance 5.30299E+017

Lead Boiler House - Lead

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.002115	
Mean 4.64835E-005	SD 0.000310239	Variance 9.62481E-008

Lead Boiler House - Lead

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead Boiler House - Lead

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead Boiler House - Lead

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead Boiler House - Lead

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.758861	10% of values less than 0.798418	25% of values less than 0.897057
50% of values less than 1.0046	75% of values less than 1.17075	90% of values less than 1.37823
Minimum 0.654558	Maximum 1.94742	
Mean 1.05199	SD 0.223725	Variance 0.0500528

Retarded Travel Time to VC MFB 50m years

05% of values less than 2103.14	10% of values less than 2237.2	25% of values less than 2581.41
50% of values less than 2957.15	75% of values less than 3587.73	90% of values less than 4489.63
Minimum 1692.11s	Maximum 7861.45	
Mean 3226.74	SD 984.923	Variance 970074

Lead Boiler House - Lead

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 1.05422E-030	Maximum 3.6668E-025	
Mean 8.41662E-028	SD 1.36803E-026	Variance 1.8715E-052

Lead Boiler House - Lead

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.540109	10% of values less than 0.579118	25% of values less than 0.666305
50% of values less than 0.767446	75% of values less than 0.890457	90% of values less than 1.05728
Minimum 0.449811 than 1.16908	Maximum 1.53842	
Mean 0.796532	SD 0.185389	Variance 0.034369

Retarded Travel Time to Boiler House 50m years

05% of values less than 1523.56	10% of values less than 1638.94	25% of values less than 1943.42
50% of values less than 2254.56	75% of values less than 2748.28	90% of values less than 3428.21
Minimum 1175.43s than 4017.06	Maximum 6216.76	
Mean 2442.48	SD 780.405	Variance 609032

Lead Boiler House - Lead

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 7.60878E-013	10% of values less than 6.64491E-011	25% of values less than 1.56857E-008
50% of values less than 7.93071E-007	75% of values less than 8.56972E-006	90% of values less than 5.67839E-005
Minimum 1.06016E-014 0.000119561	Maximum 0.000535642	
Mean 2.00514E-005	SD 5.6774E-005	Variance 3.22329E-009

Lead Boiler House - Lead

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.854295	10% of values less than 0.900008	25% of values less than 1.0025
50% of values less than 1.11633	75% of values less than 1.30275	90% of values less than 1.52626
Minimum 0.750207 than 1.66367	Maximum 2.13848	
Mean 1.17133	SD 0.242579	Variance 0.0588444

Retarded Travel Time to Lead MFB 50m years

05% of values less than 2355.11	10% of values less than 2513.67	25% of values less than 2880.72
50% of values less than 3300	75% of values less than 3974.37	90% of values less than 4972.43
Minimum 1933.48s than 5886.72	Maximum 8629.78	
Mean 3593.11	SD 1083.1	Variance 1.1731E+006

Lead Boiler House - Lead

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.305421	10% of values less than 0.336253	25% of values less than 0.415726
50% of values less than 0.506927	75% of values less than 0.602605	90% of values less than 0.725559
Minimum 0.229665	Maximum 1.09867	
Mean 0.521863	SD 0.149245	Variance 0.022274

Retarded Travel Time to BH Lead 50m years

05% of values less than 879.935	10% of values less than 978.404	25% of values less than 1217.52
50% of values less than 1473.8	75% of values less than 1853.81	90% of values less than 2350.25
Minimum 619.891	Maximum 4448.38	
Mean 1599.24	SD 576.816	Variance 332717

Lead Boiler House - Lead

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.10486E-007	10% of values less than 2.34925E-006	25% of values less than 2.59869E-005
50% of values less than 0.000168113	75% of values less than 0.000483623	90% of values less than 0.00097905
Minimum 2.02996E-012 0.00125885	Maximum 0.00179521	
Mean 0.000328544	SD 0.000401994	Variance 1.61599E-007

Lead Boiler House - Lead

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.0567464	10% of values less than 0.0864826	25% of values less than 0.15065
50% of values less than 0.246665	75% of values less than 0.330974	90% of values less than 0.39644
Minimum 0.00243783	Maximum 0.657613	
Mean 0.246379	SD 0.122908	Variance 0.0151064

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 169.739	10% of values less than 251.712	25% of values less than 453.892
50% of values less than 713.144	75% of values less than 993.912	90% of values less than 1265.45
Minimum 8.42763	Maximum 2674.75	
Mean 753.493	SD 414.769	Variance 172034

Lead Boiler House - Lead

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.000164533	10% of values less than 0.000269285	25% of values less than 0.000611523
50% of values less than 0.0012887	75% of values less than 0.00186844	90% of values less than 0.00205424
Minimum 2.96699E-006 0.00209044	Maximum 0.00211347	
Mean 0.00122246	SD 0.000663039	Variance 4.39621E-007

Lead Boiler House - Lead

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.627983	10% of values less than 0.667424	25% of values less than 0.759973
50% of values less than 0.862981	75% of values less than 1.00135	90% of values less than 1.18449
Minimum 0.531905	Maximum 1.70241	
Mean 0.898959	SD 0.20036	Variance 0.0401442

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 1747.98	10% of values less than 1877.84	25% of values less than 2207.51
50% of values less than 2539.42	75% of values less than 3080.73	90% of values less than 3855.7
Minimum 1382.6	Maximum 6876.21	
Mean 2756.93	SD 861.249	Variance 741750

Lead Boiler House - Lead

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead Boiler House - Lead

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead Boiler House - Lead

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead Boiler House - Lead

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.0154749	25% of values less than 0.0677058
50% of values less than 0.149301	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 250749	SD 433661	Variance 1.88062E+011

Retarded Travel Time to ETP 50m years

05% of values less than 0	10% of values less than 45.8546	25% of values less than 209.044
50% of values less than 430.472	75% of values less than 1.84347E+009	90% of values less than 3.21099E+009
Minimum 0.es less than 3.65974E+009	Maximum 4.59449E+009	
Mean 7.76824E+008	SD 1.37363E+009	Variance 1.88685E+018

Lead Boiler House - Lead

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.00147825	75% of values less than 0.00203261	90% of values less than 0.00210873
Minimum 0.00000000	Maximum 0.002115	
Mean 0.00117902	SD 0.00086405	Variance 7.46583E-007

Lead Boiler House - Lead

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.00176105	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 929071	SD 256835	Variance 6.5964E+010

Retarded Travel Time to Tank Farm 50m years

05% of values less than 4.4207	10% of values less than 2.13725E+009	25% of values less than 2.52005E+009
50% of values less than 2.96039E+009	75% of values less than 3.42134E+009	90% of values less than 3.82641E+009
Minimum 0.es less than 4.0982E+009	Maximum 4.82854E+009	
Mean 2.84176E+009	SD 9.6476E+008	Variance 9.30762E+017

Lead Boiler House - Lead

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.002115	
Mean 0.000103531	SD 0.000456573	Variance 2.08459E-007

Lead Boiler House - Lead

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.13409	10% of values less than 2.2047	25% of values less than 2.3509
50% of values less than 2.56989	75% of values less than 3.02187	90% of values less than 3.5255
Minimum 1.99722s than 3.74044	Maximum 4.62945	
Mean 2.72719	SD 0.508741	Variance 0.258818

Retarded Travel Time to DCE Receptor years

05% of values less than 5702.66	10% of values less than 5983.11	25% of values less than 6796.89
50% of values less than 7803.19	75% of values less than 9235.77	90% of values less than 11445.2
Minimum 4758.46s than 13611.9	Maximum 19586.6	
Mean 8369.65	SD 2413.03	Variance 5.82274E+006

Lead Boiler House - Lead

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.87463E-020	10% of values less than 2.89771E-020	25% of values less than 8.95706E-020
50% of values less than 2.97022E-019	75% of values less than 1.26765E-018	90% of values less than 3.87073E-018
Minimum 4.60309E-021 6.73067E-018	Maximum 1.36376E-017	
Mean 1.295E-018	SD 2.26378E-018	Variance 5.1247E-036

Lead Boiler House - Lead

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.2191	10% of values less than 2.29076	25% of values less than 2.44117
50% of values less than 2.66741	75% of values less than 3.13029	90% of values less than 3.65116
Minimum 2.08005s than 3.87867	Maximum 4.79491	
Mean 2.83053	SD 0.526988	Variance 0.277716

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 5913.59	10% of values less than 6216.81	25% of values less than 7063.93
50% of values less than 8103.68	75% of values less than 9588.3	90% of values less than 11861.7
Minimum 4941.87s than 14144.8	Maximum 20323.9	
Mean 8686.92	SD 2502.66	Variance 6.26333E+006

Lead Boiler House - Lead

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 5.10801E-015	10% of values less than 5.64314E-015	25% of values less than 6.77687E-015
50% of values less than 8.56377E-015	75% of values less than 1.03859E-014	90% of values less than 1.13071E-014
Minimum 9.31718E-016 1.16024E-014	Maximum 1.17652E-014	
Mean 8.46931E-015	SD 2.13238E-015	Variance 4.54703E-030

Source Inventory:

Lead

Aquifer Source Concentration [mg/l] SINGLE(0.003157)

Lead MFB core and store - Lead

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.00582212	10% of values less than 0.0367659	25% of values less than 0.118925
50% of values less than 0.22559	75% of values less than 0.3335	90% of values less than 0.512571
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 84915.3	SD 278895	Variance 7.77822E+010

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 14.2192	10% of values less than 104.882	25% of values less than 353.084
50% of values less than 655.867	75% of values less than 1035.71	90% of values less than 1876.09
Minimum 0.es less than 2.93267E+009	Maximum 4.29566E+009	
Mean 2.64208E+008	SD 8.81846E+008	Variance 7.77653E+017

Lead MFB core and store - Lead

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.67076E-011
50% of values less than 2.87207E-005	75% of values less than 0.000978133	90% of values less than 0.0022754
Minimum 0.es less than 0.00291469	Maximum 0.003157	
Mean 0.000618627	SD 0.000941508	Variance 8.86436E-007

Lead MFB core and store - Lead

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.310281	10% of values less than 0.353132	25% of values less than 0.452243
50% of values less than 0.575122	75% of values less than 0.687431	90% of values less than 0.822533
Minimum 0.233269	Maximum 1.29471	
Mean 0.583208	SD 0.178773	Variance 0.0319597

Retarded Travel Time to Lead MFB years

05% of values less than 882.199	10% of values less than 1019.12	25% of values less than 1303.55
50% of values less than 1680.4	75% of values less than 2125.14	90% of values less than 2730.77
Minimum 550.366s	Maximum 5717.32	
Mean 1795.15	SD 703.912	Variance 495492

Lead MFB core and store - Lead

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 5.60931E-009	10% of values less than 9.47767E-008	25% of values less than 4.73529E-006
50% of values less than 9.38845E-005	75% of values less than 0.000562877	90% of values less than 0.00143802
Minimum 4.2097E-015n 0.00195015	Maximum 0.00291525	
Mean 0.000418351	SD 0.000632246	Variance 3.99735E-007

Lead MFB core and store - Lead

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0165905	25% of values less than 0.0811939
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 580420	SD 493737	Variance 2.43776E+011

Retarded Travel Time to Boiler House Receptor years

05% of values less than 0	10% of values less than 44.0517	25% of values less than 245.756
50% of values less than 2.42248E+009	75% of values less than 3.09148E+009	90% of values less than 3.58527E+009
Minimum 0.es less than 3.86113E+009	Maximum 4.79835E+009	
Mean 1.7669E+009	SD 1.56347E+009	Variance 2.44445E+018

Lead MFB core and store - Lead

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.003157	Maximum 0.003157	
Mean 0.000208154	SD 0.000783854	Variance 6.14427E-007

Lead MFB core and store - Lead

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.202977	10% of values less than 0.244303	25% of values less than 0.341004
50% of values less than 0.462403	75% of values less than 0.56658	90% of values less than 0.684586
Minimum 0.136377	Maximum 1.11711	
Mean 0.46387	SD 0.16743	Variance 0.0280327

Retarded Travel Time to VC MFB 50m years

05% of values less than 586.812	10% of values less than 714.189	25% of values less than 976.624
50% of values less than 1337.73	75% of values less than 1739.66	90% of values less than 2267.08
Minimum 318.5	Maximum 4933.03	
Mean 1428.78	SD 629.224	Variance 395923

Lead MFB core and store - Lead

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 9.28934E-010	10% of values less than 6.69349E-009	25% of values less than 2.96714E-007
50% of values less than 1.56676E-005	75% of values less than 0.000151764	90% of values less than 0.00055387
Minimum 5.63427E-014 0.000841642	Maximum 0.00236691	
Mean 0.000159343	SD 0.000317434	Variance 1.00764E-007

Lead MFB core and store - Lead

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.0121047	10% of values less than 0.0438368	25% of values less than 0.129937
50% of values less than 0.238443	75% of values less than 0.348266	90% of values less than 0.476327
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 63936.3	SD 244761	Variance 5.99081E+010

Retarded Travel Time to Boiler House 50m years

05% of values less than 35.465	10% of values less than 130.667	25% of values less than 380.297
50% of values less than 685.485	75% of values less than 1058.34	90% of values less than 1653.51
Minimum 0.es less than 2.60845E+009	Maximum 4.29566E+009	
Mean 1.98717E+008	SD 7.74019E+008	Variance 5.99105E+017

Lead MFB core and store - Lead

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.003157	
Mean 0.000113538	SD 0.000588129	Variance 3.45895E-007

Lead MFB core and store - Lead

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.310281	10% of values less than 0.353132	25% of values less than 0.452243
50% of values less than 0.575122	75% of values less than 0.687431	90% of values less than 0.822533
Minimum 0.233269	Maximum 1.29471	
Mean 0.583208	SD 0.178773	Variance 0.0319597

Retarded Travel Time to Lead MFB 50m years

05% of values less than 882.199	10% of values less than 1019.12	25% of values less than 1303.55
50% of values less than 1680.4	75% of values less than 2125.14	90% of values less than 2730.77
Minimum 550.366s	Maximum 5717.32	
Mean 1795.15	SD 703.912	Variance 495492

Lead MFB core and store - Lead

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 5.60931E-009	10% of values less than 9.47767E-008	25% of values less than 4.73529E-006
50% of values less than 9.38845E-005	75% of values less than 0.000562877	90% of values less than 0.00143802
Minimum 4.2097E-015n 0.00195015	Maximum 0.00291525	
Mean 0.000418351	SD 0.000632246	Variance 3.99735E-007

Lead MFB core and store - Lead

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0164236	25% of values less than 0.0805468
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 578422	SD 494059	Variance 2.44094E+011

Retarded Travel Time to BH Lead 50m years

05% of values less than 0	10% of values less than 44.1486	25% of values less than 246.005
50% of values less than 2.42178E+009	75% of values less than 3.08614E+009	90% of values less than 3.58527E+009
Minimum 0.es less than 3.86113E+009	Maximum 4.79835E+009	
Mean 1.76141E+009	SD 1.56459E+009	Variance 2.44795E+018

Lead MFB core and store - Lead

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.003157	Maximum 0.003157	
Mean 0.000211308	SD 0.000789348	Variance 6.2307E-007

Lead MFB core and store - Lead

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.0581885	10% of values less than 0.101097	25% of values less than 0.196583
50% of values less than 0.308166	75% of values less than 0.4119	90% of values less than 0.509292
Minimum 0.00350631an 0.577422	Maximum 0.889359	
Mean 0.310839	SD 0.156083	Variance 0.0243619

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 175.287	10% of values less than 286.176	25% of values less than 567.329
50% of values less than 909.602	75% of values less than 1264.54	90% of values less than 1656.09
Minimum 7.70268s than 1940.87	Maximum 3927.32	
Mean 958.973	SD 547.968	Variance 300269

Lead MFB core and store - Lead

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.99975E-005	10% of values less than 8.35317E-005	25% of values less than 0.000531084
50% of values less than 0.00168384	75% of values less than 0.0027347	90% of values less than 0.00308228
Minimum 1.83841E-010 0.00312739	Maximum 0.00315608	
Mean 0.00163655	SD 0.00110784	Variance 1.22732E-006

Lead MFB core and store - Lead

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to ETP 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP 50m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm 50m years

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Lead MFB core and store - Lead

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Lead MFB core and store - Lead

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.6341	10% of values less than 1.7091	25% of values less than 1.83407
50% of values less than 2.02737	75% of values less than 2.38122	90% of values less than 2.76198
Minimum 1.4961ss than 2.9331	Maximum 3.6583	
Mean 2.13907	SD 0.410503	Variance 0.168512

Retarded Travel Time to DCE Receptor years

05% of values less than 4347.5	10% of values less than 4622.15	25% of values less than 5260.66
50% of values less than 6119.91	75% of values less than 7273.48	90% of values less than 9092.91
Minimum 3579.81s than 10554.8	Maximum 15942.4	
Mean 6571.69	SD 1948.4	Variance 3.79626E+006

Lead MFB core and store - Lead

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 4.31721E-020	10% of values less than 1.00471E-019	25% of values less than 8.94413E-019
50% of values less than 2.01046E-017	75% of values less than 3.47315E-016	90% of values less than 1.45133E-015
Minimum 1.39051E-020 2.18477E-015	Maximum 4.70062E-015	
Mean 4.04004E-016	SD 8.30547E-016	Variance 6.89808E-031

Lead MFB core and store - Lead

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.71758	10% of values less than 1.79496	25% of values less than 1.92598
50% of values less than 2.12258	75% of values less than 2.49236	90% of values less than 2.894
Minimum 1.57902s than 3.06747	Maximum 3.82326	
Mean 2.24241	SD 0.428016	Variance 0.183198

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 4561.16	10% of values less than 4868.3	25% of values less than 5514.73
50% of values less than 6425.86	75% of values less than 7625.47	90% of values less than 9533.89
Minimum 3781.04s than 11028.3	Maximum 16621.6	
Mean 6888.96	SD 2036.48	Variance 4.14726E+006

Lead MFB core and store - Lead

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 3.54001E-028	75% of values less than 4.21685E-025	90% of values less than 3.23879E-023
Minimum 0.es less than 1.56931E-022	Maximum 2.31655E-021	
Mean 4.52628E-023	SD 2.24221E-022	Variance 5.02749E-044

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.2031	10% of values less than 1.23719	25% of values less than 1.32222
50% of values less than 1.47268	75% of values less than 1.68067	90% of values less than 2.00493
Minimum 1.13408s than 2.14492	Maximum 2.66404	
Mean 1.54316	SD 0.29593	Variance 0.0875744

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 2.15291	10% of values less than 2.2135	25% of values less than 2.36983
50% of values less than 2.64484	75% of values less than 3.04735	90% of values less than 3.56624
Minimum 1.99283s than 4.08085	Maximum 5.33939	
Mean 2.79951	SD 0.6016	Variance 0.361923

Lead

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.00582212	10% of values less than 0.0367659	25% of values less than 0.118925
50% of values less than 0.22559	75% of values less than 0.3335	90% of values less than 0.512571
Minimum 0.00582212	Maximum 1.35473	
Mean 0.258166	SD 0.207077	Variance 0.042881

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 14.2192	10% of values less than 104.882	25% of values less than 353.084
50% of values less than 655.867	75% of values less than 1035.71	90% of values less than 1653.08
Minimum 0.00582212	Maximum 4646.05	
Mean 800.636	SD 685.6	Variance 470047

Naphthalene

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 15.8976	10% of values less than 17.8927	25% of values less than 23.9331
50% of values less than 32.4019	75% of values less than 40.8473	90% of values less than 48.3139
Minimum 11.26	Maximum 104.319	
Mean 33.6835	SD 13.3522	Variance 178.28

Trichloroethene (TCE)

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 1.19586	10% of values less than 1.22483	25% of values less than 1.2877
50% of values less than 1.41764	75% of values less than 1.64627	90% of values less than 1.95505
Minimum 1.13408s than 2.07581	Maximum 2.56227	
Mean 1.50388	SD 0.277705	Variance 0.0771203

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 2.1062	10% of values less than 2.35687	25% of values less than 2.88324
50% of values less than 3.91064	75% of values less than 4.89346	90% of values less than 5.97262
Minimum 1.68075s than 6.86556	Maximum 10.4981	
Mean 4.08816	SD 1.52928	Variance 2.3387

Vinyl Chloride

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.0576074	10% of values less than 0.093432	25% of values less than 0.165914
50% of values less than 0.278927	75% of values less than 0.38689	90% of values less than 0.471512
Minimum 0.00521574	Maximum 0.777358	
Mean 0.285347	SD 0.149703	Variance 0.0224109

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.121337	10% of values less than 0.198523	25% of values less than 0.358849
50% of values less than 0.595405	75% of values less than 0.836823	90% of values less than 1.0283
Minimum 0.0116289	Maximum 2.05216	
Mean 0.615908	SD 0.329303	Variance 0.108441

EC12-EC16 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 31.4455	10% of values less than 35.4721	25% of values less than 47.348
50% of values less than 64.1902	75% of values less than 80.8941	90% of values less than 95.7802
Minimum 22.2644s	Maximum 207.247	
Mean 66.7176	SD 26.5038	Variance 702.451

EC16-EC21 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 99.8562	10% of values less than 112.821	25% of values less than 150.373
50% of values less than 203.932	75% of values less than 257.171	90% of values less than 304.642
Minimum 70.6836	Maximum 660.131	
Mean 212.068	SD 84.3717	Variance 7118.58

EC10-EC12 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.321565	10% of values less than 0.362902	25% of values less than 0.480232
50% of values less than 0.645774	75% of values less than 0.788763	90% of values less than 0.938631
Minimum 0.249279	Maximum 1.3906	
Mean 0.649369	SD 0.223395	Variance 0.0499055

Retarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 15.8976	10% of values less than 17.8927	25% of values less than 23.9331
50% of values less than 32.4019	75% of values less than 40.8473	90% of values less than 48.3139
Minimum 11.26	Maximum 104.319	
Mean 33.6835	SD 13.3522	Variance 178.28

1,2-Dichloroethene (1,2-DCE)

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 1.17933E-009	10% of values less than 3.66573E-009	25% of values less than 1.45768E-008
50% of values less than 9.04019E-008	75% of values less than 5.07887E-007	90% of values less than 1.83888E-006
Minimum 1.87957E-011 3.35978E-006	Maximum 1.53958E-005	
Mean 6.45927E-007	SD 1.49226E-006	Variance 2.22683E-012

Lead

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.67076E-011
50% of values less than 2.87207E-005	75% of values less than 0.000978133	90% of values less than 0.0022754
Minimum 0.es less than 0.00291469	Maximum 0.003157	
Mean 0.000618627	SD 0.000941508	Variance 8.86436E-007

Naphthalene

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 4.60891E-024
Minimum 0.es less than 2.77527E-022	Maximum 3.41225E-018	
Mean 1.12359E-020	SD 1.49907E-019	Variance 2.2472E-038

Trichloroethene (TCE)

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 4.66047E-009	10% of values less than 2.01385E-008	25% of values less than 1.38274E-007
50% of values less than 7.17229E-007	75% of values less than 2.83105E-006	90% of values less than 9.14848E-006
Minimum 7.82806E-014 1.76502E-005	Maximum 5.59635E-005	
Mean 3.23751E-006	SD 6.59426E-006	Variance 4.34843E-011

Vinyl Chloride

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0.00051865	10% of values less than 0.0023034	25% of values less than 0.006213
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 1.41167E-005 0.006213	Maximum 0.006213	
Mean 0.00561498	SD 0.00170041	Variance 2.89141E-006

EC12-EC16 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 7.04008E-013	10% of values less than 1.87109E-012	25% of values less than 1.45334E-011
50% of values less than 2.71591E-010	75% of values less than 3.27545E-009	90% of values less than 2.0203E-008
Minimum 1.45336E-014 5.12779E-008	Maximum 3.95135E-007	
Mean 9.82058E-009	SD 3.47411E-008	Variance 1.20695E-015

EC16-EC21 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 6.18005E-017	10% of values less than 4.52806E-016	25% of values less than 6.86505E-015
50% of values less than 1.49058E-013	75% of values less than 3.2118E-012	90% of values less than 3.41577E-011
Minimum 4.16153E-021 9.87546E-011	Maximum 2.09732E-009	
Mean 2.42126E-011	SD 1.23507E-010	Variance 1.52541E-020

EC10-EC12 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 6.82256E-023	10% of values less than 1.84184E-021	25% of values less than 1.96929E-019
50% of values less than 3.30492E-017	75% of values less than 3.15766E-015	90% of values less than 4.98016E-014
Minimum 0.es less than 2.57775E-013	Maximum 7.04793E-012	
Mean 6.20785E-014	SD 3.74321E-013	Variance 1.40116E-025

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB [years]

05% of values less than 2.7283	10% of values less than 2.80483	25% of values less than 2.98627
50% of values less than 3.32009	75% of values less than 3.84376	90% of values less than 4.4612
Minimum 2.53854s than 5.12459	Maximum 6.67307	
Mean 3.51926	SD 0.746383	Variance 0.557087

Lead

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.310281	10% of values less than 0.353132	25% of values less than 0.452243
50% of values less than 0.575122	75% of values less than 0.687431	90% of values less than 0.822533
Minimum 0.233269	Maximum 1.29471	
Mean 0.583208	SD 0.178773	Variance 0.0319597

Retarded Travel Time to Lead MFB [years]

05% of values less than 882.199	10% of values less than 1019.12	25% of values less than 1303.55
50% of values less than 1680.4	75% of values less than 2125.14	90% of values less than 2730.77
Minimum 550.366	Maximum 5717.32	
Mean 1795.15	SD 703.912	Variance 495492

Naphthalene

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB [years]

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB [years]

05% of values less than 1.51791	10% of values less than 1.55132	25% of values less than 1.62918
50% of values less than 1.79123	75% of values less than 2.07561	90% of values less than 2.46433
Minimum 1.45667s than 2.60355	Maximum 3.20194	
Mean 1.90056	SD 0.34844	Variance 0.12141

Retarded Travel Time to Lead MFB [years]

05% of values less than 2.66781	10% of values less than 2.98873	25% of values less than 3.64691
50% of values less than 4.93173	75% of values less than 6.21009	90% of values less than 7.53439
Minimum 2.13523s than 8.7108	Maximum 13.3056	
Mean 5.16677	SD 1.93021	Variance 3.72569

Vinyl Chloride

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.415652	10% of values less than 0.455933	25% of values less than 0.544452
50% of values less than 0.664863	75% of values less than 0.78584	90% of values less than 0.927782
Minimum 0.329002 than 1.05186	Maximum 1.36251	
Mean 0.682027	SD 0.186601	Variance 0.03482

Retarded Travel Time to Lead MFB [years]

05% of values less than 0.879776	10% of values less than 0.977199	25% of values less than 1.17337
50% of values less than 1.41228	75% of values less than 1.6908	90% of values less than 2.02669
Minimum 0.65979s than 2.25521	Maximum 3.59693	
Mean 1.47295	SD 0.433908	Variance 0.188276

EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB [years]

05% of values less than 65.6755	10% of values less than 71.173	25% of values less than 84.0454
50% of values less than 101.643	75% of values less than 122.508	90% of values less than 148.091
Minimum 49.9158s than 176.871	Maximum 298.245	
Mean 107.497	SD 34.6303	Variance 1199.26

EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB [years]

05% of values less than 208.564	10% of values less than 226.215	25% of values less than 267.053
50% of values less than 322.996	75% of values less than 389.584	90% of values less than 471.015
Minimum 158.47ss than 562.97	Maximum 949.981	
Mean 341.69	SD 110.315	Variance 12169.4

EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB [years]

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 1.02923E-018	10% of values less than 3.36091E-018	25% of values less than 2.93248E-017
50% of values less than 4.43064E-016	75% of values less than 7.00643E-015	90% of values less than 5.6369E-014
Minimum 2.12121E-021 1.69982E-013	Maximum 1.72323E-012	
Mean 2.93175E-014	SD 1.13715E-013	Variance 1.2931E-026

Lead

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 5.60931E-009	10% of values less than 9.47767E-008	25% of values less than 4.73529E-006
50% of values less than 9.38845E-005	75% of values less than 0.000562877	90% of values less than 0.00143802
Minimum 4.2097E-015n 0.00195015	Maximum 0.00291525	
Mean 0.000418351	SD 0.000632246	Variance 3.99735E-007

Naphthalene

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 7.76591E-007	10% of values less than 4.97413E-006	25% of values less than 6.36876E-005
50% of values less than 0.000307747	75% of values less than 0.000710386	90% of values less than 0.00110757
Minimum 1.21877E-011 0.00127139	Maximum 0.00183588	
Mean 0.000433731	SD 0.000424874	Variance 1.80518E-007

Vinyl Chloride

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 9.11748E-017	10% of values less than 5.52583E-016	25% of values less than 2.62518E-014
50% of values less than 4.00429E-012	75% of values less than 3.0153E-010	90% of values less than 0.006213
Minimum 2.68849E-018 0.006213	Maximum 0.006213	
Mean 0.000707575	SD 0.00197469	Variance 3.89939E-006

EC12-EC16 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 2.11321E-024	10% of values less than 2.05635E-023	25% of values less than 3.5686E-022
50% of values less than 3.45671E-020	75% of values less than 1.71147E-018	90% of values less than 3.82868E-017
Minimum 0.es less than 1.09884E-016	Maximum 2.06756E-015	
Mean 3.13839E-017	SD 1.6903E-016	Variance 2.8571E-032

EC16-EC21 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 2.39793E-028	25% of values less than 2.61102E-026
50% of values less than 2.51839E-024	75% of values less than 2.64401E-022	90% of values less than 6.74961E-021
Minimum 0.es less than 3.91312E-020	Maximum 5.07062E-018	
Mean 2.33435E-020	SD 2.3286E-019	Variance 5.42237E-038

EC10-EC12 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 5.97054E-029	75% of values less than 3.05031E-026	90% of values less than 2.20159E-024
Minimum 0.es less than 1.55881E-023	Maximum 1.14008E-021	
Mean 7.92969E-024	SD 5.68479E-023	Variance 3.23168E-045

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.994618	10% of values less than 1.02427	25% of values less than 1.10037
50% of values less than 1.23231	75% of values less than 1.40771	90% of values less than 1.67568
Minimum 0.927853	Maximum 2.2551	
Mean 1.28956	SD 0.252005	Variance 0.0635066

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 1.77668	10% of values less than 1.83591	25% of values less than 1.97304
50% of values less than 2.21679	75% of values less than 2.54259	90% of values less than 3.00159
Minimum 1.64396s	Maximum 4.52368	
Mean 2.33938	SD 0.510089	Variance 0.260191

Lead

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0165905	25% of values less than 0.0811939
50% of values less than 0.37057	75% of values less than 0.5349	90% of values less than 0.651199
Minimum 0.05 less than 0.747509	Maximum 1.09737	
Mean 0.336655	SD 0.254032	Variance 0.0645321

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 44.0517	25% of values less than 245.756
50% of values less than 1068.67	75% of values less than 1576.84	90% of values less than 2036
Minimum 0.05 less than 2396	Maximum 3955.47	
Mean 1026.53	SD 809.865	Variance 655882

Naphthalene

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 4.10168	10% of values less than 6.26582	25% of values less than 11.9421
50% of values less than 19.9423	75% of values less than 27.7085	90% of values less than 33.1036
Minimum 0.833273	Maximum 75.0359	
Mean 20.5213	SD 11.3349	Variance 128.481

Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.987955	10% of values less than 1.01509	25% of values less than 1.07206
50% of values less than 1.17965	75% of values less than 1.36767	90% of values less than 1.62492
Minimum 0.927853	Maximum 2.15333	
Mean 1.25028	SD 0.232822	Variance 0.0542059

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 1.74385	10% of values less than 1.96522	25% of values less than 2.40289
50% of values less than 3.2497	75% of values less than 4.06264	90% of values less than 4.9898
Minimum 1.38914s	Maximum 8.70319	
Mean 3.39861	SD 1.27348	Variance 1.62175

Vinyl Chloride

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0151972	25% of values less than 0.0759729
50% of values less than 0.191001	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 353646	SD 478340	Variance 2.28809E+011

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0334412	25% of values less than 0.163271
50% of values less than 0.400801	75% of values less than 2.04786E+006	90% of values less than 2.24762E+006
Minimum 0.es less than 2.36208E+006	Maximum 2.68759E+006	
Mean 763242	SD 1.03732E+006	Variance 1.07604E+012

EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 8.10855	10% of values less than 12.4109	25% of values less than 23.6323
50% of values less than 39.5282	75% of values less than 54.9084	90% of values less than 65.7048
Minimum 1.64668	Maximum 149.072	
Mean 40.6467	SD 22.4794	Variance 505.322

EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 25.7712	10% of values less than 39.4493	25% of values less than 75.0692
50% of values less than 125.657	75% of values less than 174.599	90% of values less than 209.15
Minimum 5.22569	Maximum 474.828	
Mean 129.199	SD 71.5152	Variance 5114.43

EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0800739	10% of values less than 0.125292	25% of values less than 0.235759
50% of values less than 0.391775	75% of values less than 0.543201	90% of values less than 0.644574
Minimum 0.0198621	Maximum 1.00025	
Mean 0.395769	SD 0.202577	Variance 0.0410375

Retarded Travel Time to Boiler House Receptor [years]

05% of values less than 4.10168	10% of values less than 6.26582	25% of values less than 11.9421
50% of values less than 19.9423	75% of values less than 27.7085	90% of values less than 33.1036
Minimum 0.833273	Maximum 75.0359	
Mean 20.5213	SD 11.3349	Variance 128.481

1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.71563E-012	10% of values less than 5.06655E-012	25% of values less than 4.72752E-011
50% of values less than 8.54632E-010	75% of values less than 1.01635E-008	90% of values less than 6.0829E-008
Minimum 3.11841E-014 1.31732E-007	Maximum 7.43171E-007	
Mean 2.22092E-008	SD 6.43459E-008	Variance 4.14039E-015

Lead

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 3.2412E-007	10% of values less than 2.35267E-006	25% of values less than 2.5004E-005
50% of values less than 0.000176409	75% of values less than 0.000593657	90% of values less than 0.00127581
Minimum 4.85941E-011 0.00318471	Maximum 0.00492131	
Mean 0.000520641	SD 0.000873107	Variance 7.62315E-007

Naphthalene

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.82547E-008	10% of values less than 9.28303E-008	25% of values less than 8.1159E-007
50% of values less than 7.46376E-006	75% of values less than 4.98379E-005	90% of values less than 0.000214803
Minimum 9.00891E-013 0.000362816	Maximum 0.001291	
Mean 6.2334E-005	SD 0.000131307	Variance 1.72414E-008

Trichloroethene (TCE)

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 5.10616E-012	10% of values less than 1.24118E-011	25% of values less than 9.96262E-011
50% of values less than 2.00167E-009	75% of values less than 2.99395E-008	90% of values less than 2.05064E-007
Minimum 4.70936E-015 3.79401E-007	Maximum 1.63416E-006	
Mean 6.55258E-008	SD 1.74153E-007	Variance 3.03292E-014

Vinyl Chloride

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00400959	SD 0.00297382	Variance 8.84361E-006

EC12-EC16 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.00934482	10% of values less than 0.0128211	25% of values less than 0.0201345
50% of values less than 0.0313449	75% of values less than 0.0460616	90% of values less than 0.0613081
Minimum 0.00171665an 0.0676181	Maximum 0.0820192	
Mean 0.0342296	SD 0.0179178	Variance 0.000321046

EC16-EC21 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.000164618	10% of values less than 0.000314131	25% of values less than 0.0011759
50% of values less than 0.00358774	75% of values less than 0.0120736	90% of values less than 0.0262759
Minimum 1.11743E-006 0.0354434	Maximum 0.0569777	
Mean 0.00874903	SD 0.0115066	Variance 0.000132403

EC10-EC12 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.92882E-007	10% of values less than 9.41425E-007	25% of values less than 1.14911E-005
50% of values less than 8.29242E-005	75% of values less than 0.000623621	90% of values less than 0.00260439
Minimum 7.35655E-011 0.00440455	Maximum 0.0154241	
Mean 0.000776946	SD 0.00161938	Variance 2.62239E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.381464	10% of values less than 0.404248	25% of values less than 0.461614
50% of values less than 0.531965	75% of values less than 0.621972	90% of values less than 0.745859
Minimum 0.331062 than 0.81617	Maximum 1.08711	
Mean 0.555687	SD 0.132631	Variance 0.0175911

Retarded Travel Time to ETP Receptor [years]

05% of values less than 0.684498	10% of values less than 0.731548	25% of values less than 0.824035
50% of values less than 0.964457	75% of values less than 1.1208	90% of values less than 1.33569
Minimum 0.605156 than 1.50442	Maximum 2.21234	
Mean 1.00783	SD 0.258913	Variance 0.0670358

Lead

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP Receptor [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 982018	SD 132952	Variance 1.76763E+010

Retarded Travel Time to ETP Receptor [years]

05% of values less than 4.0091E+007	10% of values less than 4.1953E+007	25% of values less than 4.56921E+007
50% of values less than 5.07669E+007	75% of values less than 5.68891E+007	90% of values less than 6.22911E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 5.0849E+007	SD 1.01201E+007	Variance 1.02416E+014

Trichloroethene (TCE)

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.378624	10% of values less than 0.397622	25% of values less than 0.437911
50% of values less than 0.494859	75% of values less than 0.569348	90% of values less than 0.676486
Minimum 0.331062 than 0.731043	Maximum 0.969918	
Mean 0.516411	SD 0.107833	Variance 0.0116279

Retarded Travel Time to ETP Receptor [years]

05% of values less than 0.71427	10% of values less than 0.802537	25% of values less than 0.987418
50% of values less than 1.33299	75% of values less than 1.66956	90% of values less than 2.1195
Minimum 0.536245 than 2.41592	Maximum 3.52784	
Mean 1.40316	SD 0.541262	Variance 0.292964

Vinyl Chloride

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP Receptor [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.254899	75% of values less than 0.338206	90% of values less than 0.422572
Minimum 0.00486221	Maximum 0.712636	
Mean 0.255616	SD 0.128354	Variance 0.0164747

Retarded Travel Time to ETP Receptor [years]

05% of values less than 5.92486	10% of values less than 8.22417	25% of values less than 15.5117
50% of values less than 25.4441	75% of values less than 34.1623	90% of values less than 43.2965
Minimum 0.47254s	Maximum 106.207	
Mean 26.1966	SD 14.2011	Variance 201.672

EC16-EC21 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.254899	75% of values less than 0.338206	90% of values less than 0.422572
Minimum 0.00486221	Maximum 0.712636	
Mean 0.255616	SD 0.128354	Variance 0.0164747

Retarded Travel Time to ETP Receptor [years]

05% of values less than 18.8158	10% of values less than 26.1115	25% of values less than 49.2286
50% of values less than 80.8358	75% of values less than 108.622	90% of values less than 137.574
Minimum 1.50143s	Maximum 338.294	
Mean 83.2667	SD 45.1778	Variance 2041.04

EC10-EC12 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 0.0561011	10% of values less than 0.0808349	25% of values less than 0.156876
50% of values less than 0.254899	75% of values less than 0.338206	90% of values less than 0.422572
Minimum 0.00486221	Maximum 0.712636	
Mean 0.255616	SD 0.128354	Variance 0.0164747

Retarded Travel Time to ETP Receptor [years]

05% of values less than 2.99509	10% of values less than 4.15887	25% of values less than 7.85188
50% of values less than 12.8413	75% of values less than 17.2713	90% of values less than 21.8698
Minimum 0.238701	Maximum 53.4598	
Mean 13.2261	SD 7.16103	Variance 51.2804

1,2-Dichloroethene (1,2-DCE)

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 1.24281E-019	10% of values less than 2.53062E-017	25% of values less than 5.85351E-013
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.es less than 0.044483	Maximum 0.044483	
Mean 0.0254633	SD 0.0220179	Variance 0.000484789

Lead

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.002115	
Mean 4.64835E-005	SD 0.000310239	Variance 9.62481E-008

Naphthalene

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.001291	
Mean 2.32148E-005	SD 0.000171641	Variance 2.94608E-008

Trichloroethene (TCE)

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.46227E-017
50% of values less than 1.22505E-013	75% of values less than 0.009125	90% of values less than 0.018901
Minimum 0.es less than 0.018901	Maximum 0.018901	
Mean 0.00389297	SD 0.00701476	Variance 4.92068E-005

Vinyl Chloride

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0.00668214	10% of values less than 0.00848044	25% of values less than 0.0116798
50% of values less than 0.0167396	75% of values less than 0.0227065	90% of values less than 0.0289025
Minimum 0.00185731	Maximum 0.116191	
Mean 0.0188501	SD 0.0134178	Variance 0.000180038

EC16-EC21 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0.0011511	10% of values less than 0.00173398	25% of values less than 0.00377413
50% of values less than 0.00883484	75% of values less than 0.0193365	90% of values less than 0.0352218
Minimum 3.05342E-005 0.0448777	Maximum 0.121678	
Mean 0.0145282	SD 0.0164542	Variance 0.000270741

EC10-EC12 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 3.46927E-006	10% of values less than 9.8629E-006	25% of values less than 4.78419E-005
50% of values less than 0.000218141	75% of values less than 0.000734143	90% of values less than 0.00186612
Minimum 4.18979E-008 0.002664	Maximum 0.0176751	
Mean 0.000845414	SD 0.0022368	Variance 5.00326E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.169875	10% of values less than 0.190423	25% of values less than 0.237534
50% of values less than 0.292618	75% of values less than 0.364245	90% of values less than 0.439995
Minimum 0.130144 than 0.499947	Maximum 0.709334	
Mean 0.30862	SD 0.100348	Variance 0.0100697

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.305978	10% of values less than 0.342072	25% of values less than 0.425563
50% of values less than 0.533968	75% of values less than 0.658847	90% of values less than 0.811967
Minimum 0.24358s than 0.901821	Maximum 1.4342	
Mean 0.559541	SD 0.189381	Variance 0.035865

Lead

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.169432	10% of values less than 0.187242	25% of values less than 0.21732
50% of values less than 0.258322	75% of values less than 0.311615	90% of values less than 0.367116
Minimum 0.130144 than 0.413509	Maximum 0.571508	
Mean 0.269344	SD 0.0723202	Variance 0.00523021

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.34779	10% of values less than 0.392596	25% of values less than 0.502032
50% of values less than 0.682019	75% of values less than 0.889354	90% of values less than 1.1531
Minimum 0.229395 than 1.30312	Maximum 2.05067	
Mean 0.731361	SD 0.30836	Variance 0.0950857

Vinyl Chloride

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0176461	10% of values less than 0.0315271	25% of values less than 0.0709589
50% of values less than 0.139733	75% of values less than 0.249053	90% of values less than 0.376757
Minimum 0.000291853	Maximum 0.67969	
Mean 0.173357	SD 0.13327	Variance 0.0177608

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1.68993	10% of values less than 3.28738	25% of values less than 7.04984
50% of values less than 14.233	75% of values less than 25.3589	90% of values less than 36.9524
Minimum 0.0233618	Maximum 76.9652	
Mean 17.8145	SD 14.1619	Variance 200.56

EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0176461	10% of values less than 0.0315271	25% of values less than 0.0709589
50% of values less than 0.139733	75% of values less than 0.249053	90% of values less than 0.376757
Minimum 0.000291853	Maximum 0.67969	
Mean 0.173357	SD 0.13327	Variance 0.0177608

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 5.36619	10% of values less than 10.4201	25% of values less than 22.4012
50% of values less than 45.228	75% of values less than 80.6492	90% of values less than 117.377
Minimum 0.0741157	Maximum 244.947	
Mean 56.6249	SD 45.0349	Variance 2028.15

EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.0176461	10% of values less than 0.0315271	25% of values less than 0.0709589
50% of values less than 0.139733	75% of values less than 0.249053	90% of values less than 0.376757
Minimum 0.000291853	Maximum 0.67969	
Mean 0.173357	SD 0.13327	Variance 0.0177608

Retarded Travel Time to Tank Farm Receptor [years]

05% of values less than 0.854423	10% of values less than 1.6663	25% of values less than 3.5609
50% of values less than 7.18096	75% of values less than 12.7965	90% of values less than 18.6629
Minimum 0.0118268	Maximum 38.7875	
Mean 8.99392	SD 7.14538	Variance 51.0565

1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 9.33544E-006 0.044483	Maximum 0.044483	
Mean 0.0432463	SD 0.00716791	Variance 5.13789E-005

Lead

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Naphthalene

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.000141653	10% of values less than 0.000834736	25% of values less than 0.009776
50% of values less than 0.018901	75% of values less than 0.018901	90% of values less than 0.018901
Minimum 3.08827E-008 0.018901	Maximum 0.018901	
Mean 0.0142764	SD 0.0068727	Variance 4.7234E-005

Vinyl Chloride

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.0054477	10% of values less than 0.0070937	25% of values less than 0.0101573
50% of values less than 0.0151038	75% of values less than 0.021937	90% of values less than 0.0297515
Minimum 0.00155447an 0.0496931	Maximum 0.0651653	
Mean 0.0183966	SD 0.012406	Variance 0.000153909

EC16-EC21 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0.000356306	10% of values less than 0.000639698	25% of values less than 0.00159736
50% of values less than 0.00395209	75% of values less than 0.00954657	90% of values less than 0.0207887
Minimum 6.79748E-006 0.0758849	Maximum 0.0936888	
Mean 0.0111194	SD 0.0202577	Variance 0.000410375

EC10-EC12 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 5.30485E-006	10% of values less than 1.86628E-005	25% of values less than 0.000110864
50% of values less than 0.000514904	75% of values less than 0.00280183	90% of values less than 0.00676831
Minimum 2.56943E-008 0.00754888	Maximum 0.0136103	
Mean 0.00202607	SD 0.00291374	Variance 8.48989E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0358523	10% of values less than 0.0521355	25% of values less than 0.0912275
50% of values less than 0.150445	75% of values less than 0.210176	90% of values less than 0.275791
Minimum 0.00591046	Maximum 0.481391	
Mean 0.158038	SD 0.0862933	Variance 0.00744654

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0639172	10% of values less than 0.0932897	25% of values less than 0.166637
50% of values less than 0.271794	75% of values less than 0.377963	90% of values less than 0.498152
Minimum 0.0104327	Maximum 0.963602	
Mean 0.286321	SD 0.158846	Variance 0.0252322

Lead

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0358523	10% of values less than 0.0511488	25% of values less than 0.0774862
50% of values less than 0.113696	75% of values less than 0.154328	90% of values less than 0.194418
Minimum 0.00591046	Maximum 0.328684	
Mean 0.118762	SD 0.0573748	Variance 0.00329186

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0856241	10% of values less than 0.120719	25% of values less than 0.180375
50% of values less than 0.286453	75% of values less than 0.419709	90% of values less than 0.57396
Minimum 0.00922267	Maximum 1.19318	
Mean 0.321914	SD 0.190053	Variance 0.0361202

Vinyl Chloride

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.011151	25% of values less than 0.0448884
50% of values less than 0.137673	75% of values less than 0.26615	90% of values less than 1E+006
Minimum 0.000000E+000	Maximum 1E+006	
Mean 135864	SD 342815	Variance 1.17522E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.0731937	10% of values less than 1.16368	25% of values less than 4.69419
50% of values less than 14.0849	75% of values less than 27.0694	90% of values less than 9.16027E+007
Minimum 0.000000E+000	Maximum 1.44853E+008	
Mean 1.38452E+007	SD 3.53277E+007	Variance 1.24804E+015

EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.011151	25% of values less than 0.0448884
50% of values less than 0.137673	75% of values less than 0.26615	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 135864	SD 342815	Variance 1.17522E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.232525	10% of values less than 3.69706	25% of values less than 14.9294
50% of values less than 44.792	75% of values less than 86.0425	90% of values less than 2.90929E+008
Minimum 0.es less than 3.37281E+008	Maximum 4.61329E+008	
Mean 4.40059E+007	SD 1.12303E+008	Variance 1.26119E+016

EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.000770277	10% of values less than 0.011151	25% of values less than 0.0448884
50% of values less than 0.137673	75% of values less than 0.26615	90% of values less than 1E+006
Minimum 0.000000E+000	Maximum 1E+006	
Mean 135864	SD 342815	Variance 1.17522E+011

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 0.036982	10% of values less than 0.587915	25% of values less than 2.36673
50% of values less than 7.10598	75% of values less than 13.6673	90% of values less than 4.63014E+007
Minimum 0.000000E+000	Maximum 7.29264E+007	
Mean 6.99055E+006	SD 1.78334E+007	Variance 3.18029E+014

1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.044483	Maximum 0.044483	
Mean 0.044483	SD 9.2293E-009	Variance 8.51799E-017

Lead

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Naphthalene

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0.0148178	10% of values less than 0.018901	25% of values less than 0.018901
50% of values less than 0.018901	75% of values less than 0.018901	90% of values less than 0.018901
Minimum 0.0003907121	Maximum 0.018901	
Mean 0.0184422	SD 0.00210621	Variance 4.43613E-006

Vinyl Chloride

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.56561E-010
50% of values less than 4.80464E-005	75% of values less than 0.00398519	90% of values less than 0.032941
Minimum 0.es less than 0.037115	Maximum 0.070056	
Mean 0.00667141	SD 0.0133479	Variance 0.000178165

EC16-EC21 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.31007E-011
50% of values less than 8.21948E-006	75% of values less than 0.00081059	90% of values less than 0.030882
Minimum 0.es less than 0.074038	Maximum 0.10492	
Mean 0.00710022	SD 0.0198094	Variance 0.000392413

EC10-EC12 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.00222E-010
50% of values less than 2.41982E-006	75% of values less than 0.000404924	90% of values less than 0.01361
Minimum 0.es less than 0.01361	Maximum 0.020206	
Mean 0.00219772	SD 0.0046179	Variance 2.1325E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0111883	25% of values less than 0.050232
50% of values less than 0.106931	75% of values less than 0.168698	90% of values less than 0.2366
Minimum 0.es less than 0.287751	Maximum 1E+006	
Mean 25974.1	SD 159137	Variance 2.53247E+010

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.0202066	25% of values less than 0.0915307
50% of values less than 0.193446	75% of values less than 0.305591	90% of values less than 0.428595
Minimum 0.es less than 0.512787	Maximum 2.04287E+006	
Mean 46944.8	SD 288331	Variance 8.31348E+010

Lead

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Trichloroethene (TCE)

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0.0111883	10% of values less than 0.0183525	25% of values less than 0.0391065
50% of values less than 0.0724896	75% of values less than 0.112954	90% of values less than 0.151497
Minimum 0.000207141	Maximum 0.262045	
Mean 0.0799083	SD 0.0509212	Variance 0.00259297

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0.0270128	10% of values less than 0.0431548	25% of values less than 0.0954263
50% of values less than 0.180745	75% of values less than 0.297598	90% of values less than 0.433965
Minimum 0.000720355	Maximum 1.08937	
Mean 0.216785	SD 0.160707	Variance 0.0258267

Vinyl Chloride

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.00749474	25% of values less than 0.0536302
50% of values less than 0.160803	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 258741	SD 438162	Variance 1.91986E+011

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.744076	25% of values less than 5.71474
50% of values less than 15.8925	75% of values less than 7.91699E+007	90% of values less than 1.04374E+008
Minimum 0.es less than 1.15838E+008	Maximum 1.44853E+008	
Mean 2.64435E+007	SD 4.53705E+007	Variance 2.05849E+015

EC16-EC21 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.00749474	25% of values less than 0.0536302
50% of values less than 0.160803	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 258741	SD 438162	Variance 1.91986E+011

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 2.36239	25% of values less than 18.1533
50% of values less than 50.4633	75% of values less than 2.51144E+008	90% of values less than 3.31797E+008
Minimum 0.es less than 3.68481E+008	Maximum 4.61329E+008	
Mean 8.405E+007	SD 1.44234E+008	Variance 2.08036E+016

EC10-EC12 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.00749474	25% of values less than 0.0536302
50% of values less than 0.160803	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 258741	SD 438162	Variance 1.91986E+011

Retarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 0	10% of values less than 0.376278	25% of values less than 2.88778
50% of values less than 8.02554	75% of values less than 4.00849E+007	90% of values less than 5.26871E+007
Minimum 0.es less than 5.8419E+007	Maximum 7.29264E+007	
Mean 1.33511E+007	SD 2.29015E+007	Variance 5.2448E+014

1,2-Dichloroethene (1,2-DCE)

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0.044483	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.000000	Maximum 0.044483	
Mean 0.0433276	SD 0.0070789	Variance 5.01109E-005

Lead

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Naphthalene

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0.018901	10% of values less than 0.018901	25% of values less than 0.018901
50% of values less than 0.018901	75% of values less than 0.018901	90% of values less than 0.018901
Minimum 0.009125 than 0.018901	Maximum 0.018901	
Mean 0.0185447	SD 0.00180902	Variance 3.27254E-006

Vinyl Chloride

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.032941
Minimum 0.037115	Maximum 0.070056	
Mean 0.0058617	SD 0.013591	Variance 0.000184715

EC16-EC21 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.030882
Minimum 0.es less than 0.074038	Maximum 0.10492	
Mean 0.0070416	SD 0.0195254	Variance 0.00038124

EC10-EC12 Aromatics

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.01361
Minimum 0.es less than 0.01361	Maximum 0.020206	
Mean 0.00219209	SD 0.00479683	Variance 2.30096E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.43033	10% of values less than 1.46604	25% of values less than 1.56037
50% of values less than 1.72991	75% of values less than 1.9807	90% of values less than 2.37208
Minimum 1.35962s than 2.51163	Maximum 3.11127	
Mean 1.8205	SD 0.344554	Variance 0.118717

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 2.5544	10% of values less than 2.62691	25% of values less than 2.80432
50% of values less than 3.11747	75% of values less than 3.60538	90% of values less than 4.19281
Minimum 2.37437s than 4.81161	Maximum 6.27184	
Mean 3.30273	SD 0.702673	Variance 0.49375

Lead

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.202977	10% of values less than 0.244303	25% of values less than 0.341004
50% of values less than 0.462403	75% of values less than 0.56658	90% of values less than 0.684586
Minimum 0.136377	Maximum 1.11711	
Mean 0.46387	SD 0.16743	Variance 0.0280327

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 586.812	10% of values less than 714.189	25% of values less than 976.624
50% of values less than 1337.73	75% of values less than 1739.66	90% of values less than 2267.08
Minimum 318.5	Maximum 4933.03	
Mean 1428.78	SD 629.224	Variance 395923

Naphthalene

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 27.9878	10% of values less than 30.5202	25% of values less than 37.1957
50% of values less than 45.6242	75% of values less than 55.4021	90% of values less than 66.5924
Minimum 21.0373s than 78.9331	Maximum 136.343	
Mean 48.0779	SD 16.122	Variance 259.92

Trichloroethene (TCE)

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 1.42103	10% of values less than 1.45343	25% of values less than 1.52496
50% of values less than 1.68028	75% of values less than 1.94619	90% of values less than 2.31407
Minimum 1.35962s than 2.44285	Maximum 3.0095	
Mean 1.78122	SD 0.327112	Variance 0.107002

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 2.5031	10% of values less than 2.80126	25% of values less than 3.41356
50% of values less than 4.62113	75% of values less than 5.81191	90% of values less than 7.05878
Minimum 1.9985ss than 8.14516	Maximum 12.461	
Mean 4.84228	SD 1.80952	Variance 3.27436

Vinyl Chloride

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.311421	10% of values less than 0.346338	25% of values less than 0.432952
50% of values less than 0.548057	75% of values less than 0.661234	90% of values less than 0.784873
Minimum 0.231769	Maximum 1.18647	
Mean 0.562688	SD 0.173213	Variance 0.0300029

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 0.666307	10% of values less than 0.737452	25% of values less than 0.930325
50% of values less than 1.1718	75% of values less than 1.43597	90% of values less than 1.72458
Minimum 0.464795	Maximum 3.13219	
Mean 1.21512	SD 0.396488	Variance 0.157203

EC12-EC16 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 55.3814	10% of values less than 60.4089	25% of values less than 73.5715
50% of values less than 90.3851	75% of values less than 109.716	90% of values less than 131.929
Minimum 41.5971s than 156.629	Maximum 270.869	
Mean 95.2291	SD 32.0252	Variance 1025.62

EC16-EC21 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 175.914	10% of values less than 191.907	25% of values less than 233.529
50% of values less than 287.302	75% of values less than 348.627	90% of values less than 418.875
Minimum 132.06ss	Maximum 862.782	
Mean 302.694	SD 102	Variance 10404.1

EC10-EC12 Aromatics

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.565713	10% of values less than 0.612297	25% of values less than 0.733266
50% of values less than 0.915108	75% of values less than 1.06989	90% of values less than 1.25151
Minimum 0.474441 than 1.41976	Maximum 1.8175	
Mean 0.92671	SD 0.253823	Variance 0.0644259

Retarded Travel Time to VC MFB 50m [years]

05% of values less than 27.9878	10% of values less than 30.5202	25% of values less than 37.1957
50% of values less than 45.6242	75% of values less than 55.4021	90% of values less than 66.5924
Minimum 21.0373s than 78.9331	Maximum 136.343	
Mean 48.0779	SD 16.122	Variance 259.92

1,2-Dichloroethene (1,2-DCE)

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 3.97747E-010	10% of values less than 1.34839E-009	25% of values less than 6.52426E-009
50% of values less than 3.38404E-008	75% of values less than 2.03676E-007	90% of values less than 7.09601E-007
Minimum 3.68295E-012 1.39262E-006	Maximum 7.14211E-006	
Mean 2.69086E-007	SD 6.45261E-007	Variance 4.16362E-013

Lead

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 9.28934E-010	10% of values less than 6.69349E-009	25% of values less than 2.96714E-007
50% of values less than 1.56676E-005	75% of values less than 0.000151764	90% of values less than 0.00055387
Minimum 5.63427E-014 0.000841642	Maximum 0.00236691	
Mean 0.000159343	SD 0.000317434	Variance 1.00764E-007

Naphthalene

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.59317E-026	90% of values less than 1.39151E-022
Minimum 0.es less than 4.49919E-021	Maximum 1.76294E-017	
Mean 5.4704E-020	SD 7.25109E-019	Variance 5.25783E-037

Trichloroethene (TCE)

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 3.43895E-009	10% of values less than 2.50767E-008	25% of values less than 2.5234E-007
50% of values less than 1.13538E-006	75% of values less than 3.58683E-006	90% of values less than 8.47215E-006
Minimum 4.05629E-014 1.3442E-005	Maximum 4.01189E-005	
Mean 3.13392E-006	SD 5.18601E-006	Variance 2.68947E-011

Vinyl Chloride

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 3.91395E-005	10% of values less than 7.68589E-005	25% of values less than 0.000246227
50% of values less than 0.00107953	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 5.21124E-006 0.006213	Maximum 0.006213	
Mean 0.00245258	SD 0.00261353	Variance 6.83051E-006

EC12-EC16 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.24758E-012	10% of values less than 2.75933E-012	25% of values less than 1.80409E-011
50% of values less than 2.70137E-010	75% of values less than 2.62912E-009	90% of values less than 1.4115E-008
Minimum 2.37288E-014 3.85452E-008	Maximum 3.10685E-007	
Mean 7.00212E-009	SD 2.47367E-008	Variance 6.11905E-016

EC16-EC21 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.38421E-017	10% of values less than 9.0408E-017	25% of values less than 1.95635E-015
50% of values less than 4.60917E-014	75% of values less than 8.45536E-013	90% of values less than 9.32776E-012
Minimum 5.91743E-023 2.98938E-011	Maximum 6.79783E-010	
Mean 7.07595E-012	SD 3.7378E-011	Variance 1.39712E-021

EC10-EC12 Aromatics

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 1.12646E-024	10% of values less than 3.36071E-023	25% of values less than 8.78193E-021
50% of values less than 3.63538E-018	75% of values less than 4.09468E-016	90% of values less than 7.33448E-015
Minimum 0.es less than 2.49468E-014	Maximum 1.21881E-012	
Mean 9.54429E-015	SD 6.45879E-014	Variance 4.17159E-027

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.22084	10% of values less than 1.25563	25% of values less than 1.34121
50% of values less than 1.49171	75% of values less than 1.70388	90% of values less than 2.03397
Minimum 1.15188s than 2.17399	Maximum 2.69933	
Mean 1.56504	SD 0.299748	Variance 0.0898487

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 2.18565	10% of values less than 2.24468	25% of values less than 2.40523
50% of values less than 2.68509	75% of values less than 3.09138	90% of values less than 3.61482
Minimum 2.02294s than 4.13995	Maximum 5.41296	
Mean 2.83922	SD 0.609544	Variance 0.371544

Lead

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.0121047	10% of values less than 0.0438368	25% of values less than 0.129937
50% of values less than 0.238443	75% of values less than 0.348266	90% of values less than 0.476327
Minimum 0.000000	Maximum 1.38727	
Mean 0.263538	SD 0.198837	Variance 0.0395362

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 35.465	10% of values less than 130.667	25% of values less than 380.297
50% of values less than 685.485	75% of values less than 1058.34	90% of values less than 1623.38
Minimum 0.000000	Maximum 4768.72	
Mean 815.717	SD 659.215	Variance 434565

Naphthalene

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 16.868	10% of values less than 19.0286	25% of values less than 24.9004
50% of values less than 33.5097	75% of values less than 42.0299	90% of values less than 49.6248
Minimum 12.0315	Maximum 106.846	
Mean 34.8193	SD 13.5532	Variance 183.69

Trichloroethene (TCE)

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 1.21382	10% of values less than 1.24283	25% of values less than 1.30608
50% of values less than 1.43801	75% of values less than 1.67012	90% of values less than 1.98364
Minimum 1.15188s than 2.10531	Maximum 2.59756	
Mean 1.52576	SD 0.281594	Variance 0.0792951

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 2.13834	10% of values less than 2.39257	25% of values less than 2.92236
50% of values less than 3.9667	75% of values less than 4.96638	90% of values less than 6.06148
Minimum 1.70582s than 6.96578	Maximum 10.653	
Mean 4.14767	SD 1.55138	Variance 2.40678

Vinyl Chloride

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.0770071	10% of values less than 0.11299	25% of values less than 0.187652
50% of values less than 0.301204	75% of values less than 0.409337	90% of values less than 0.495117
Minimum 0.0236292	Maximum 0.80964	
Mean 0.307231	SD 0.151086	Variance 0.0228269

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 0.161943	10% of values less than 0.241032	25% of values less than 0.400851
50% of values less than 0.6427	75% of values less than 0.887746	90% of values less than 1.08413
Minimum 0.0473867	Maximum 2.13739	
Mean 0.663189	SD 0.333312	Variance 0.111097

EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 33.4	10% of values less than 37.7337	25% of values less than 49.3405
50% of values less than 66.375	75% of values less than 83.0409	90% of values less than 98.1389
Minimum 23.7898s	Maximum 212.267	
Mean 68.9673	SD 26.9048	Variance 723.867

EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045 than 1.0877	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 106.022	10% of values less than 119.997	25% of values less than 156.934
50% of values less than 210.982	75% of values less than 263.56	90% of values less than 311.693
Minimum 75.5266s than 373.647	Maximum 676.122	
Mean 219.219	SD 85.6522	Variance 7336.3

EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.340743	10% of values less than 0.382967	25% of values less than 0.502303
50% of values less than 0.665039	75% of values less than 0.813241	90% of values less than 0.963579
Minimum 0.267045	Maximum 1.42429	
Mean 0.671253	SD 0.22554	Variance 0.0508682

Retarded Travel Time to Boiler House 50m [years]

05% of values less than 16.868	10% of values less than 19.0286	25% of values less than 24.9004
50% of values less than 33.5097	75% of values less than 42.0299	90% of values less than 49.6248
Minimum 12.0315	Maximum 106.846	
Mean 34.8193	SD 13.5532	Variance 183.69

1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 3.88494E-011	10% of values less than 1.0741E-010	25% of values less than 7.00098E-010
50% of values less than 6.43149E-009	75% of values less than 5.23904E-008	90% of values less than 2.35562E-007
Minimum 3.09387E-013 4.80495E-007	Maximum 2.82363E-006	
Mean 8.739E-008	SD 2.36827E-007	Variance 5.6087E-014

Lead

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.41003E-012	10% of values less than 7.57794E-011	25% of values less than 1.81332E-008
50% of values less than 9.54641E-007	75% of values less than 1.13692E-005	90% of values less than 8.74409E-005
Minimum 1.06016E-014 0.000263512	Maximum 0.00348977	
Mean 0.00013359	SD 0.000592499	Variance 3.51055E-007

Naphthalene

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.00896E-010	10% of values less than 8.04534E-010	25% of values less than 1.5483E-008
50% of values less than 2.87428E-007	75% of values less than 2.07716E-006	90% of values less than 9.56141E-006
Minimum 2.20127E-016 2.19945E-005	Maximum 0.000110155	
Mean 3.62899E-006	SD 9.77873E-006	Variance 9.56237E-011

Trichloroethene (TCE)

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.22931E-010	10% of values less than 4.65096E-010	25% of values less than 2.16981E-009
50% of values less than 2.48611E-008	75% of values less than 2.8672E-007	90% of values less than 1.37455E-006
Minimum 8.18143E-015 2.29489E-006	Maximum 9.85107E-006	
Mean 4.32515E-007	SD 1.05451E-006	Variance 1.11198E-012

Vinyl Chloride

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0.006213
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00533164	SD 0.00216883	Variance 4.70381E-006

EC12-EC16 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0.00293156	10% of values less than 0.00473895	25% of values less than 0.00910064
50% of values less than 0.015434	75% of values less than 0.0235345	90% of values less than 0.0325097
Minimum 0.0003761811 0.0363375	Maximum 0.0523352	
Mean 0.017091	SD 0.010445	Variance 0.000109099

EC16-EC21 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 7.84947E-006	10% of values less than 2.44649E-005	25% of values less than 0.000131421
50% of values less than 0.000486322	75% of values less than 0.00178814	90% of values less than 0.0041133
Minimum 1.09892E-008 0.00603208	Maximum 0.0153806	
Mean 0.00141342	SD 0.00211679	Variance 4.4808E-006

EC10-EC12 Aromatics

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 1.2087E-009	10% of values less than 7.95637E-009	25% of values less than 2.31988E-007
50% of values less than 3.62858E-006	75% of values less than 2.82255E-005	90% of values less than 0.000145459
Minimum 1.0369E-014n 0.000304025	Maximum 0.00107079	
Mean 4.9263E-005	SD 0.000125864	Variance 1.58418E-008

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.52738	10% of values less than 1.56511	25% of values less than 1.66078
50% of values less than 1.84029	75% of values less than 2.10977	90% of values less than 2.52029
Minimum 1.45667s than 2.67188	Maximum 3.30371	
Mean 1.93984	SD 0.365607	Variance 0.133668

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 2.7283	10% of values less than 2.80483	25% of values less than 2.98627
50% of values less than 3.32009	75% of values less than 3.84376	90% of values less than 4.4612
Minimum 2.53854s than 5.12459	Maximum 6.67307	
Mean 3.51926	SD 0.746383	Variance 0.557087

Lead

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.310281	10% of values less than 0.353132	25% of values less than 0.452243
50% of values less than 0.575122	75% of values less than 0.687431	90% of values less than 0.822533
Minimum 0.233269	Maximum 1.29471	
Mean 0.583208	SD 0.178773	Variance 0.0319597

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 882.199	10% of values less than 1019.12	25% of values less than 1303.55
50% of values less than 1680.4	75% of values less than 2125.14	90% of values less than 2730.77
Minimum 550.366	Maximum 5717.32	
Mean 1795.15	SD 703.912	Variance 495492

Naphthalene

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 1.51791	10% of values less than 1.55132	25% of values less than 1.62918
50% of values less than 1.79123	75% of values less than 2.07561	90% of values less than 2.46433
Minimum 1.45667s than 2.60355	Maximum 3.20194	
Mean 1.90056	SD 0.34844	Variance 0.12141

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 2.66781	10% of values less than 2.98873	25% of values less than 3.64691
50% of values less than 4.93173	75% of values less than 6.21009	90% of values less than 7.53439
Minimum 2.13523s than 8.7108	Maximum 13.3056	
Mean 5.16677	SD 1.93021	Variance 3.72569

Vinyl Chloride

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.415652	10% of values less than 0.455933	25% of values less than 0.544452
50% of values less than 0.664863	75% of values less than 0.78584	90% of values less than 0.927782
Minimum 0.329002	Maximum 1.36251	
Mean 0.682027	SD 0.186601	Variance 0.03482

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.879776	10% of values less than 0.977199	25% of values less than 1.17337
50% of values less than 1.41228	75% of values less than 1.6908	90% of values less than 2.02669
Minimum 0.65979	Maximum 3.59693	
Mean 1.47295	SD 0.433908	Variance 0.188276

EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 65.6755	10% of values less than 71.173	25% of values less than 84.0454
50% of values less than 101.643	75% of values less than 122.508	90% of values less than 148.091
Minimum 49.9158s than 176.871	Maximum 298.245	
Mean 107.497	SD 34.6303	Variance 1199.26

EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 208.564	10% of values less than 226.215	25% of values less than 267.053
50% of values less than 322.996	75% of values less than 389.584	90% of values less than 471.015
Minimum 158.47ss than 562.97	Maximum 949.981	
Mean 341.69	SD 110.315	Variance 12169.4

EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.672681	10% of values less than 0.717617	25% of values less than 0.841525
50% of values less than 1.02762	75% of values less than 1.19494	90% of values less than 1.40484
Minimum 0.571327 than 1.57366	Maximum 2.00119	
Mean 1.04605	SD 0.268746	Variance 0.0722242

Retarded Travel Time to Lead MFB 50m [years]

05% of values less than 33.2077	10% of values less than 35.9362	25% of values less than 42.5348
50% of values less than 51.3848	75% of values less than 61.8973	90% of values less than 74.6992
Minimum 25.2445s than 89.1217	Maximum 150.123	
Mean 54.2717	SD 17.4295	Variance 303.786

1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 1.02923E-018	10% of values less than 3.36091E-018	25% of values less than 2.93248E-017
50% of values less than 4.43064E-016	75% of values less than 7.00643E-015	90% of values less than 5.6369E-014
Minimum 2.12121E-021 1.69982E-013	Maximum 1.72323E-012	
Mean 2.93175E-014	SD 1.13715E-013	Variance 1.2931E-026

Lead

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 5.60931E-009	10% of values less than 9.47767E-008	25% of values less than 4.73529E-006
50% of values less than 9.38845E-005	75% of values less than 0.000562877	90% of values less than 0.00143802
Minimum 4.2097E-015n 0.00195015	Maximum 0.00291525	
Mean 0.000418351	SD 0.000632246	Variance 3.99735E-007

Naphthalene

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 7.76591E-007	10% of values less than 4.97413E-006	25% of values less than 6.36876E-005
50% of values less than 0.000307747	75% of values less than 0.000710386	90% of values less than 0.00110757
Minimum 1.21877E-011 0.00127139	Maximum 0.00183588	
Mean 0.000433731	SD 0.000424874	Variance 1.80518E-007

Vinyl Chloride

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 9.11748E-017	10% of values less than 5.52583E-016	25% of values less than 2.62518E-014
50% of values less than 4.00429E-012	75% of values less than 3.0153E-010	90% of values less than 0.006213
Minimum 2.68849E-018 0.006213	Maximum 0.006213	
Mean 0.000707575	SD 0.00197469	Variance 3.89939E-006

EC12-EC16 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 2.11321E-024	10% of values less than 2.05635E-023	25% of values less than 3.5686E-022
50% of values less than 3.45671E-020	75% of values less than 1.71147E-018	90% of values less than 3.82868E-017
Minimum 0.es less than 1.09884E-016	Maximum 2.06756E-015	
Mean 3.13839E-017	SD 1.6903E-016	Variance 2.8571E-032

EC16-EC21 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 2.39793E-028	25% of values less than 2.61102E-026
50% of values less than 2.51839E-024	75% of values less than 2.64401E-022	90% of values less than 6.74961E-021
Minimum 0.es less than 3.91312E-020	Maximum 5.07062E-018	
Mean 2.33435E-020	SD 2.3286E-019	Variance 5.42237E-038

EC10-EC12 Aromatics

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 5.97054E-029	75% of values less than 3.05031E-026	90% of values less than 2.20159E-024
Minimum 0.es less than 1.55881E-023	Maximum 1.14008E-021	
Mean 7.92969E-024	SD 5.68479E-023	Variance 3.23168E-045

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.995304	10% of values less than 1.025	25% of values less than 1.10112
50% of values less than 1.23303	75% of values less than 1.40854	90% of values less than 1.67677
Minimum 0.928516 than 1.80686	Maximum 2.25641	
Mean 1.29037	SD 0.252145	Variance 0.0635772

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 1.77787	10% of values less than 1.83707	25% of values less than 1.97434
50% of values less than 2.21806	75% of values less than 2.54422	90% of values less than 3.00331
Minimum 1.64508s than 3.39814	Maximum 4.52625	
Mean 2.34085	SD 0.510381	Variance 0.260489

Lead

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0164236	25% of values less than 0.0805468
50% of values less than 0.370698	75% of values less than 0.5355	90% of values less than 0.649306
Minimum 0.05 less than 0.747494	Maximum 1.09867	
Mean 0.336076	SD 0.25398	Variance 0.0645061

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 44.1486	25% of values less than 246.005
50% of values less than 1066.97	75% of values less than 1576.91	90% of values less than 2038.97
Minimum 0.05 less than 2399.11	Maximum 3960.17	
Mean 1025.45	SD 811.012	Variance 657741

Naphthalene

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 4.14521	10% of values less than 6.30025	25% of values less than 11.9759
50% of values less than 19.9873	75% of values less than 27.7501	90% of values less than 33.1532
Minimum 0.871419	Maximum 75.13	
Mean 20.5636	SD 11.3403	Variance 128.603

Trichloroethene (TCE)

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.988635	10% of values less than 1.01576	25% of values less than 1.07272
50% of values less than 1.18036	75% of values less than 1.36858	90% of values less than 1.626
Minimum 0.928516	Maximum 2.15464	
Mean 1.2511	SD 0.232965	Variance 0.0542728

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 1.74498	10% of values less than 1.96647	25% of values less than 2.40454
50% of values less than 3.25171	75% of values less than 4.06528	90% of values less than 4.99286
Minimum 1.39009s	Maximum 8.70896	
Mean 3.40082	SD 1.2743	Variance 1.62384

Vinyl Chloride

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0152274	25% of values less than 0.0764776
50% of values less than 0.191454	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 352647	SD 478033	Variance 2.28515E+011

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0347245	25% of values less than 0.164602
50% of values less than 0.402126	75% of values less than 2.04786E+006	90% of values less than 2.24762E+006
Minimum 0.es less than 2.36208E+006	Maximum 2.68759E+006	
Mean 761426	SD 1.03707E+006	Variance 1.07551E+012

EC12-EC16 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 8.1945	10% of values less than 12.4791	25% of values less than 23.6992
50% of values less than 39.6043	75% of values less than 54.9899	90% of values less than 65.8031
Minimum 1.72207s than 78.8434	Maximum 149.258	
Mean 40.7305	SD 22.4901	Variance 505.805

EC16-EC21 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 26.0114	10% of values less than 39.6661	25% of values less than 75.3519
50% of values less than 125.871	75% of values less than 174.858	90% of values less than 209.463
Minimum 5.46491s than 250.929	Maximum 475.424	
Mean 129.465	SD 71.5495	Variance 5119.34

EC10-EC12 Aromatics

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0.0807325	10% of values less than 0.126004	25% of values less than 0.23649
50% of values less than 0.392502	75% of values less than 0.543937	90% of values less than 0.645305
Minimum 0.02077131an 0.752034	Maximum 1.00151	
Mean 0.396584	SD 0.202631	Variance 0.0410592

Retarded Travel Time to BH Lead 50m [years]

05% of values less than 4.14521	10% of values less than 6.30025	25% of values less than 11.9759
50% of values less than 19.9873	75% of values less than 27.7501	90% of values less than 33.1532
Minimum 0.871419than 39.7245	Maximum 75.13	
Mean 20.5636	SD 11.3403	Variance 128.603

1,2-Dichloroethene (1,2-DCE)

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.32114E-011	10% of values less than 3.84947E-011	25% of values less than 3.0514E-010
50% of values less than 4.21575E-009	75% of values less than 4.53952E-008	90% of values less than 2.22682E-007
Minimum 2.34964E-013 4.76877E-007	Maximum 2.51315E-006	
Mean 8.15505E-008	SD 2.24272E-007	Variance 5.02979E-014

Lead

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.70837E-007	10% of values less than 2.83803E-006	25% of values less than 3.1018E-005
50% of values less than 0.0002033	75% of values less than 0.000623563	90% of values less than 0.00134444
Minimum 5.31541E-011 0.00318644	Maximum 0.004784	
Mean 0.000539852	SD 0.00087712	Variance 7.6934E-007

Naphthalene

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.87096E-008	10% of values less than 8.27536E-008	25% of values less than 7.75246E-007
50% of values less than 7.2326E-006	75% of values less than 4.66282E-005	90% of values less than 0.000210337
Minimum 1.01068E-012 0.000359112	Maximum 0.001291	
Mean 6.1035E-005	SD 0.00013005	Variance 1.6913E-008

Trichloroethene (TCE)

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 3.55126E-011	10% of values less than 8.63637E-011	25% of values less than 6.41688E-010
50% of values less than 1.0097E-008	75% of values less than 1.30981E-007	90% of values less than 7.47308E-007
Minimum 2.64138E-014 1.35926E-006	Maximum 5.5337E-006	
Mean 2.41032E-007	SD 6.09027E-007	Variance 3.70914E-013

Vinyl Chloride

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.0040158	SD 0.00297193	Variance 8.83235E-006

EC12-EC16 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0.0081602	10% of values less than 0.0115946	25% of values less than 0.0195179
50% of values less than 0.0303084	75% of values less than 0.0449443	90% of values less than 0.0608432
Minimum 0.00184409an 0.0675744	Maximum 0.0819241	
Mean 0.0334125	SD 0.0180546	Variance 0.000325969

EC16-EC21 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0.000153141	10% of values less than 0.000309257	25% of values less than 0.00108739
50% of values less than 0.00337	75% of values less than 0.0116978	90% of values less than 0.0260475
Minimum 1.02627E-006 0.0352207	Maximum 0.0566649	
Mean 0.00855088	SD 0.0114112	Variance 0.000130215

EC10-EC12 Aromatics

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 1.85918E-007	10% of values less than 8.57273E-007	25% of values less than 1.13213E-005
50% of values less than 8.00847E-005	75% of values less than 0.000581977	90% of values less than 0.00258538
Minimum 7.16815E-011 0.00435373	Maximum 0.0154241	
Mean 0.00076161	SD 0.00160464	Variance 2.57486E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.767841	10% of values less than 0.795048	25% of values less than 0.859036
50% of values less than 0.972736	75% of values less than 1.11012	90% of values less than 1.31684
Minimum 0.704489	Maximum 1.81218	
Mean 1.01489	SD 0.205405	Variance 0.0421911

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1.37537	10% of values less than 1.42152	25% of values less than 1.54779
50% of values less than 1.7433	75% of values less than 1.99275	90% of values less than 2.38028
Minimum 1.26448s	Maximum 3.6586	
Mean 1.84101	SD 0.412647	Variance 0.170277

Lead

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.0567464	10% of values less than 0.0864826	25% of values less than 0.15065
50% of values less than 0.246665	75% of values less than 0.330974	90% of values less than 0.39644
Minimum 0.00243783an 0.451566	Maximum 0.657613	
Mean 0.246379	SD 0.122908	Variance 0.0151064

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 169.739	10% of values less than 251.712	25% of values less than 453.892
50% of values less than 713.144	75% of values less than 993.912	90% of values less than 1265.45
Minimum 8.42763s than 1522.7	Maximum 2674.75	
Mean 753.493	SD 414.769	Variance 172034

Naphthalene

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.00576749	10% of values less than 0.0347506	25% of values less than 0.132278
50% of values less than 0.275688	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 254745	SD 435936	Variance 1.9004E+011

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.316103	10% of values less than 1.70933	25% of values less than 6.59507
50% of values less than 14.2527	75% of values less than 3.94982E+007	90% of values less than 5.36034E+007
Minimum 0.es less than 5.82514E+007	Maximum 7.22262E+007	
Mean 1.32298E+007	SD 2.29142E+007	Variance 5.2506E+014

Trichloroethene (TCE)

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.761922	10% of values less than 0.785269	25% of values less than 0.835492
50% of values less than 0.924885	75% of values less than 1.06905	90% of values less than 1.26241
Minimum 0.704489	Maximum 1.71041	
Mean 0.975611	SD 0.184769	Variance 0.0341395

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1.36124	10% of values less than 1.53449	25% of values less than 1.88592
50% of values less than 2.53902	75% of values less than 3.1605	90% of values less than 3.91688
Minimum 1.06992	Maximum 6.75919	
Mean 2.65176	SD 0.997288	Variance 0.994584

Vinyl Chloride

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 951049	SD 215874	Variance 4.66014E+010

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1.80693E+006	10% of values less than 1.91385E+006	25% of values less than 2.01193E+006
50% of values less than 2.13076E+006	75% of values less than 2.26818E+006	90% of values less than 2.39316E+006
Minimum 0.es less than 2.45032E+006	Maximum 2.68759E+006	
Mean 2.05251E+006	SD 494348	Variance 2.4438E+011

EC12-EC16 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.0316552	10% of values less than 0.0608161	25% of values less than 0.157176
50% of values less than 0.298582	75% of values less than 0.554981	90% of values less than 0.761045
Minimum 0.00197853an 0.873202	Maximum 1.33709	
Mean 0.365751	SD 0.267949	Variance 0.0717965

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 3.26154	10% of values less than 6.033	25% of values less than 15.5963
50% of values less than 30.3912	75% of values less than 56.7995	90% of values less than 75.9624
Minimum 0.232791 than 89.2438	Maximum 175.901	
Mean 37.6109	SD 28.9062	Variance 835.571

EC16-EC21 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.0316552	10% of values less than 0.0608161	25% of values less than 0.157176
50% of values less than 0.298582	75% of values less than 0.554981	90% of values less than 0.761045
Minimum 0.00197853an 0.873202	Maximum 1.33709	
Mean 0.365751	SD 0.267949	Variance 0.0717965

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 10.3604	10% of values less than 19.1428	25% of values less than 49.492
50% of values less than 96.6245	75% of values less than 180.485	90% of values less than 241.65
Minimum 0.739896 than 283.722	Maximum 560.045	
Mean 119.55	SD 91.9298	Variance 8451.09

EC10-EC12 Aromatics

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 0.0316552	10% of values less than 0.0608161	25% of values less than 0.157176
50% of values less than 0.298582	75% of values less than 0.554981	90% of values less than 0.761045
Minimum 0.00197853an 0.873202	Maximum 1.33709	
Mean 0.365751	SD 0.267949	Variance 0.0717965

Retarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1.64816	10% of values less than 3.04819	25% of values less than 7.89279
50% of values less than 15.3359	75% of values less than 28.7205	90% of values less than 38.3062
Minimum 0.11754s than 45.0043	Maximum 88.5957	
Mean 18.9883	SD 14.5828	Variance 212.658

1,2-Dichloroethene (1,2-DCE)

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 9.7204E-014	10% of values less than 2.67531E-013	25% of values less than 4.90558E-012
50% of values less than 1.9561E-010	75% of values less than 3.90701E-009	90% of values less than 3.13356E-008
Minimum 2.18278E-015 6.44277E-008	Maximum 3.7007E-007	
Mean 1.1266E-008	SD 3.39825E-008	Variance 1.15481E-015

Lead

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.000164533	10% of values less than 0.000269285	25% of values less than 0.000611523
50% of values less than 0.0012887	75% of values less than 0.00186844	90% of values less than 0.00205424
Minimum 2.96699E-006 0.00209044	Maximum 0.00211347	
Mean 0.00122246	SD 0.000663039	Variance 4.39621E-007

Naphthalene

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.94747E-005	75% of values less than 0.000184991	90% of values less than 0.000618102
Minimum 0.es less than 0.001291	Maximum 0.001291	
Mean 0.00019098	SD 0.000350871	Variance 1.23111E-007

Trichloroethene (TCE)

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.49016E-013	10% of values less than 5.37621E-013	25% of values less than 6.26903E-012
50% of values less than 2.56768E-010	75% of values less than 7.00084E-009	90% of values less than 5.84002E-008
Minimum 7.139E-016an 1.27758E-007	Maximum 5.31594E-007	
Mean 1.97777E-008	SD 5.59766E-008	Variance 3.13338E-015

Vinyl Chloride

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.006213	
Mean 0.000304133	SD 0.00134122	Variance 1.79888E-006

EC12-EC16 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.00290267	10% of values less than 0.00398885	25% of values less than 0.0111193
50% of values less than 0.0424816	75% of values less than 0.062283	90% of values less than 0.0785127
Minimum 0.000313691	Maximum 0.0987016	
Mean 0.0411845	SD 0.027262	Variance 0.000743218

EC16-EC21 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 7.1519E-005	10% of values less than 0.000193627	25% of values less than 0.00141081
50% of values less than 0.00860359	75% of values less than 0.0244171	90% of values less than 0.04911
Minimum 2.88807E-008 0.0657665	Maximum 0.08189	
Mean 0.0170608	SD 0.0208603	Variance 0.000435151

EC10-EC12 Aromatics

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 2.75897E-008	10% of values less than 2.78137E-007	25% of values less than 1.27708E-005
50% of values less than 0.000382063	75% of values less than 0.00227709	90% of values less than 0.0072942
Minimum 2.54287E-012 0.0154242	Maximum 0.0154758	
Mean 0.00226416	SD 0.004173	Variance 1.74139E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.30408	10% of values less than 1.34023	25% of values less than 1.43135
50% of values less than 1.58816	75% of values less than 1.81247	90% of values less than 2.16392
Minimum 1.23518s than 2.30796	Maximum 2.8645	
Mean 1.66747	SD 0.317664	Variance 0.10091

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 2.33501	10% of values less than 2.39853	25% of values less than 2.56682
50% of values less than 2.85409	75% of values less than 3.2991	90% of values less than 3.84219
Minimum 2.16385s than 4.41658	Maximum 5.75733	
Mean 3.02507	SD 0.646802	Variance 0.418353

Lead

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.0581885	10% of values less than 0.101097	25% of values less than 0.196583
50% of values less than 0.308166	75% of values less than 0.4119	90% of values less than 0.509292
Minimum 0.00350631an 0.577422	Maximum 0.889359	
Mean 0.310839	SD 0.156083	Variance 0.0243619

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 175.287	10% of values less than 286.176	25% of values less than 567.329
50% of values less than 909.602	75% of values less than 1264.54	90% of values less than 1656.09
Minimum 7.70268s than 1940.87	Maximum 3927.32	
Mean 958.973	SD 547.968	Variance 300269

Naphthalene

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 21.2697	10% of values less than 23.6506	25% of values less than 30.0436
50% of values less than 38.3767	75% of values less than 47.2344	90% of values less than 56.1864
Minimum 15.6424s	Maximum 118.673	
Mean 40.1354	SD 14.5383	Variance 211.362

Trichloroethene (TCE)

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 1.29752	10% of values less than 1.32728	25% of values less than 1.39438
50% of values less than 1.53437	75% of values less than 1.78096	90% of values less than 2.11407
Minimum 1.23518s than 2.23975	Maximum 2.76273	
Mean 1.62819	SD 0.299818	Variance 0.089891

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 2.28877	10% of values less than 2.55869	25% of values less than 3.11964
50% of values less than 4.22602	75% of values less than 5.30771	90% of values less than 6.46837
Minimum 1.82317s than 7.43236	Maximum 11.3779	
Mean 4.42618	SD 1.65484	Variance 2.7385

Vinyl Chloride

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.173566	10% of values less than 0.208081	25% of values less than 0.28554
50% of values less than 0.400429	75% of values less than 0.513061	90% of values less than 0.614983
Minimum 0.107084	Maximum 0.960732	
Mean 0.409658	SD 0.158716	Variance 0.0251908

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.36491	10% of values less than 0.434728	25% of values less than 0.61155
50% of values less than 0.860843	75% of values less than 1.10385	90% of values less than 1.33748
Minimum 0.214748	Maximum 2.53626	
Mean 0.884487	SD 0.355305	Variance 0.126242

EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 42.0968	10% of values less than 46.8127	25% of values less than 59.4485
50% of values less than 76.002	75% of values less than 93.6714	90% of values less than 111.52
Minimum 30.9297	Maximum 235.764	
Mean 79.4971	SD 28.8687	Variance 833.403

EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 133.736	10% of values less than 148.641	25% of values less than 188.757
50% of values less than 241.583	75% of values less than 297.995	90% of values less than 354.989
Minimum 98.1939s	Maximum 750.964	
Mean 252.689	SD 91.9234	Variance 8449.91

EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.433055	10% of values less than 0.475515	25% of values less than 0.597618
50% of values less than 0.765806	75% of values less than 0.90996	90% of values less than 1.07551
Minimum 0.350202	Maximum 1.58195	
Mean 0.77368	SD 0.236201	Variance 0.0557909

Retarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 21.2697	10% of values less than 23.6506	25% of values less than 30.0436
50% of values less than 38.3767	75% of values less than 47.2344	90% of values less than 56.1864
Minimum 15.6424	Maximum 118.673	
Mean 40.1354	SD 14.5383	Variance 211.362

1,2-Dichloroethene (1,2-DCE)

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.95835E-019	10% of values less than 7.23732E-019	25% of values less than 6.5464E-018
50% of values less than 1.30124E-016	75% of values less than 2.62555E-015	90% of values less than 2.66477E-014
Minimum 4.66824E-022 6.82348E-014	Maximum 6.93029E-013	
Mean 1.25909E-014	SD 4.98561E-014	Variance 2.48563E-027

Lead

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.99975E-005	10% of values less than 8.35317E-005	25% of values less than 0.000531084
50% of values less than 0.00168384	75% of values less than 0.0027347	90% of values less than 0.00308228
Minimum 1.83841E-010 0.00312739	Maximum 0.00315608	
Mean 0.00163655	SD 0.00110784	Variance 1.22732E-006

Naphthalene

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 2.55776E-006	10% of values less than 1.24517E-005	25% of values less than 0.000112068
50% of values less than 0.000428845	75% of values less than 0.000883674	90% of values less than 0.00129676
Minimum 2.01266E-010 0.00151317	Maximum 0.00213878	
Mean 0.000547562	SD 0.000492385	Variance 2.42443E-007

Vinyl Chloride

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.07786E-018	10% of values less than 3.86066E-017	25% of values less than 4.8938E-013
50% of values less than 0.006213	75% of values less than 0.006213	90% of values less than 0.006213
Minimum 0.es less than 0.006213	Maximum 0.006213	
Mean 0.00402821	SD 0.0029681	Variance 8.8096E-006

EC12-EC16 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 6.91617E-024
50% of values less than 1.81825E-021	75% of values less than 1.54457E-019	90% of values less than 5.06792E-018
Minimum 0.es less than 1.59815E-017	Maximum 4.13186E-016	
Mean 4.98075E-018	SD 2.81704E-017	Variance 7.93571E-034

EC16-EC21 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.64277E-028
50% of values less than 5.56596E-025	75% of values less than 5.88475E-023	90% of values less than 2.17785E-021
Minimum 0.es less than 1.44196E-020	Maximum 2.2312E-018	
Mean 9.19564E-021	SD 9.44097E-020	Variance 8.91319E-039

EC10-EC12 Aromatics

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.11178E-029	75% of values less than 1.73462E-026	90% of values less than 1.19036E-024
Minimum 0.es less than 1.17344E-023	Maximum 7.89917E-022	
Mean 6.15023E-024	SD 4.2882E-023	Variance 1.83886E-045

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.236527	10% of values less than 0.257705	25% of values less than 0.306502
50% of values less than 0.365595	75% of values less than 0.44272	90% of values less than 0.534799
Minimum 0.191066 than 0.599014	Maximum 0.822736	
Mean 0.383536	SD 0.109215	Variance 0.011928

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.423051	10% of values less than 0.462617	25% of values less than 0.546415
50% of values less than 0.662872	75% of values less than 0.798289	90% of values less than 0.973149
Minimum 0.353217 than 1.06257	Maximum 1.67014	
Mean 0.69547	SD 0.208602	Variance 0.0435149

Lead

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Trichloroethene (TCE)

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.234869	10% of values less than 0.250967	25% of values less than 0.285521
50% of values less than 0.331616	75% of values less than 0.385662	90% of values less than 0.457839
Minimum 0.191066 than 0.508206	Maximum 0.692314	
Mean 0.34426	SD 0.0821449	Variance 0.00674778

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.462616	10% of values less than 0.517299	25% of values less than 0.64902
50% of values less than 0.878395	75% of values less than 1.12043	90% of values less than 1.44682
Minimum 0.325799 than 1.62926	Maximum 2.48406	
Mean 0.935063	SD 0.376578	Variance 0.141811

Vinyl Chloride

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.0204123	10% of values less than 0.0448931	25% of values less than 0.0951957
50% of values less than 0.165402	75% of values less than 0.262932	90% of values less than 0.378842
Minimum 0.000108214	Maximum 0.779499	
Mean 0.192205	SD 0.135025	Variance 0.0182317

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1.89156	10% of values less than 4.46557	25% of values less than 9.43895
50% of values less than 16.6683	75% of values less than 26.169	90% of values less than 39.6134
Minimum 0.0103455	Maximum 84.8644	
Mean 19.7476	SD 14.4528	Variance 208.883

EC16-EC21 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.0204123	10% of values less than 0.0448931	25% of values less than 0.0951957
50% of values less than 0.165402	75% of values less than 0.262932	90% of values less than 0.378842
Minimum 0.000108214	Maximum 0.779499	
Mean 0.192205	SD 0.135025	Variance 0.0182317

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 6.01277	10% of values less than 14.19	25% of values less than 30.0156
50% of values less than 53.0042	75% of values less than 83.1255	90% of values less than 126.094
Minimum 0.0328674	Maximum 270.264	
Mean 62.7695	SD 45.9634	Variance 2112.63

EC10-EC12 Aromatics

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.0204123	10% of values less than 0.0448931	25% of values less than 0.0951957
50% of values less than 0.165402	75% of values less than 0.262932	90% of values less than 0.378842
Minimum 0.000108214	Maximum 0.779499	
Mean 0.192205	SD 0.135025	Variance 0.0182317

Retarded Travel Time to TCE waste oil 50m [years]

05% of values less than 0.95492	10% of values less than 2.25548	25% of values less than 4.7635
50% of values less than 8.41016	75% of values less than 13.2258	90% of values less than 19.9589
Minimum 0.00522684	Maximum 42.728	
Mean 9.96991	SD 7.29131	Variance 53.1631

1,2-Dichloroethene (1,2-DCE)

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0.044483	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.0es less than 0.044483	Maximum 0.044483	
Mean 0.0411057	SD 0.0117884	Variance 0.000138966

Lead

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Naphthalene

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0.000825281	10% of values less than 0.00131912	25% of values less than 0.00254512
50% of values less than 0.011545	75% of values less than 0.018901	90% of values less than 0.018901
Minimum 5.3734E-005n 0.018901	Maximum 0.018901	
Mean 0.011135	SD 0.00758714	Variance 5.75647E-005

Vinyl Chloride

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.037115	Maximum 0.037115	
Mean 0.00348532	SD 0.0108318	Variance 0.000117328

EC16-EC21 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0.074038	Maximum 0.074038	
Mean 0.00547334	SD 0.0193818	Variance 0.000375653

EC10-EC12 Aromatics

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.006596
Minimum 0.es less than 0.006596	Maximum 0.006596	
Mean 0.00077755	SD 0.00212807	Variance 4.52866E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.279499	10% of values less than 0.299514	25% of values less than 0.351912
50% of values less than 0.415357	75% of values less than 0.493364	90% of values less than 0.595952
Minimum 0.231715 than 0.659834	Maximum 0.898401	
Mean 0.433522	SD 0.115639	Variance 0.0133723

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.499005	10% of values less than 0.539027	25% of values less than 0.627771
50% of values less than 0.75097	75% of values less than 0.897096	90% of values less than 1.08092
Minimum 0.426369 than 1.19062	Maximum 1.82758	
Mean 0.786165	SD 0.222466	Variance 0.0494913

Lead

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 2.21074E+009	10% of values less than 2.35697E+009	25% of values less than 2.62635E+009
50% of values less than 3.00808E+009	75% of values less than 3.46291E+009	90% of values less than 3.86891E+009
Minimum 1.83769E+0094.10954E+009	Maximum 4.82854E+009	
Mean 3.06401E+009	SD 5.76459E+008	Variance 3.32305E+017

Naphthalene

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 4.08719E+007	10% of values less than 4.24446E+007	25% of values less than 4.59408E+007
50% of values less than 5.09782E+007	75% of values less than 5.69451E+007	90% of values less than 6.22911E+007
Minimum 3.63899E+0076.48225E+007	Maximum 7.5017E+007	
Mean 5.17579E+007	SD 7.45577E+006	Variance 5.55885E+013

Trichloroethene (TCE)

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.277401	10% of values less than 0.293824	25% of values less than 0.330469
50% of values less than 0.378429	75% of values less than 0.439612	90% of values less than 0.520889
Minimum 0.231715 than 0.574738	Maximum 0.772919	
Mean 0.394246	SD 0.0892457	Variance 0.00796479

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.535808	10% of values less than 0.59808	25% of values less than 0.750168
50% of values less than 1.00811	75% of values less than 1.2799	90% of values less than 1.63582
Minimum 0.390123 than 1.85772	Maximum 2.78448	
Mean 1.07098	SD 0.423573	Variance 0.179414

Vinyl Chloride

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.0211707	10% of values less than 0.0437463	25% of values less than 0.103803
50% of values less than 0.182048	75% of values less than 0.271487	90% of values less than 0.369805
Minimum 0.000338322	Maximum 0.846094	
Mean 0.200444	SD 0.132314	Variance 0.0175071

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 2.05056	10% of values less than 4.34362	25% of values less than 10.4379
50% of values less than 18.2894	75% of values less than 27.743	90% of values less than 38.786
Minimum 0.0304259	Maximum 94.0814	
Mean 20.6038	SD 14.2498	Variance 203.057

EC16-EC21 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.0211707	10% of values less than 0.0437463	25% of values less than 0.103803
50% of values less than 0.182048	75% of values less than 0.271487	90% of values less than 0.369805
Minimum 0.000338322	Maximum 0.846094	
Mean 0.200444	SD 0.132314	Variance 0.0175071

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 6.50345	10% of values less than 13.7807	25% of values less than 33.1002
50% of values less than 58.0465	75% of values less than 88.227	90% of values less than 123.217
Minimum 0.0966187	Maximum 299.618	
Mean 65.4912	SD 45.3201	Variance 2053.91

EC10-EC12 Aromatics

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 0.0211707	10% of values less than 0.0437463	25% of values less than 0.103803
50% of values less than 0.182048	75% of values less than 0.271487	90% of values less than 0.369805
Minimum 0.0003383221 0.456462	Maximum 0.846094	
Mean 0.200444	SD 0.132314	Variance 0.0175071

Retarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1.03855	10% of values less than 2.19443	25% of values less than 5.28733
50% of values less than 9.24277	75% of values less than 13.9966	90% of values less than 19.5874
Minimum 0.01538211an 24.5366	Maximum 47.3686	
Mean 10.4021	SD 7.18842	Variance 51.6734

1,2-Dichloroethene (1,2-DCE)

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0.00145989	10% of values less than 0.00282069	25% of values less than 0.044483
50% of values less than 0.044483	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 0.0001690881 0.044483	Maximum 0.044483	
Mean 0.0382716	SD 0.0149361	Variance 0.000223087

Lead

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Naphthalene

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0.000466354	10% of values less than 0.000743064	25% of values less than 0.00212406
50% of values less than 0.00641601	75% of values less than 0.018901	90% of values less than 0.018901
Minimum 8.47683E-006 0.018901	Maximum 0.018901	
Mean 0.00936784	SD 0.00751042	Variance 5.64064E-005

Vinyl Chloride

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 3.3178E-009	10% of values less than 4.45282E-008	25% of values less than 1.48458E-006
50% of values less than 6.97558E-005	75% of values less than 0.000733094	90% of values less than 0.00334454
Minimum 4.50214E-012 0.037115	Maximum 0.0411672	
Mean 0.00265396	SD 0.0086453	Variance 7.47413E-005

EC16-EC21 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 9.28516E-010	10% of values less than 6.15705E-009	25% of values less than 1.69433E-007
50% of values less than 6.07661E-006	75% of values less than 6.98619E-005	90% of values less than 0.000394577
Minimum 2.14558E-012 0.00095344	Maximum 0.0750246	
Mean 0.00333209	SD 0.0151877	Variance 0.000230665

EC10-EC12 Aromatics

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 5.27026E-011	10% of values less than 2.54424E-010	25% of values less than 8.96018E-009
50% of values less than 3.08837E-007	75% of values less than 5.37052E-006	90% of values less than 6.10681E-005
Minimum 8.09799E-014 0.00659601	Maximum 0.00673821	
Mean 0.000507651	SD 0.00174861	Variance 3.05764E-006

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.615094	10% of values less than 0.637542	25% of values less than 0.70226
50% of values less than 0.793903	75% of values less than 0.916248	90% of values less than 1.09128
Minimum 0.555089	Maximum 1.51592	
Mean 0.831171	SD 0.175191	Variance 0.0306918

Retarded Travel Time to ETP 50m [years]

05% of values less than 1.09674	10% of values less than 1.14904	25% of values less than 1.25935
50% of values less than 1.43131	75% of values less than 1.64539	90% of values less than 1.96432
Minimum 1.00683	Maximum 3.07999	
Mean 1.50767	SD 0.349145	Variance 0.121902

Lead

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.0226782	10% of values less than 0.0390991	25% of values less than 0.0927768
50% of values less than 0.174632	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.0001614181E+006	Maximum 1E+006	
Mean 320679	SD 466971	Variance 2.18062E+011

Retarded Travel Time to ETP 50m [years]

05% of values less than 67.1309	10% of values less than 122.849	25% of values less than 270.405
50% of values less than 520.497	75% of values less than 2.57373E+009	90% of values less than 3.37838E+009
Minimum 0.467433E+009	Maximum 4.6118E+009	
Mean 9.88856E+008	SD 1.47588E+009	Variance 2.17821E+018

Naphthalene

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 0.02771	25% of values less than 0.115557
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 535465	SD 498990	Variance 2.48991E+011

Retarded Travel Time to ETP 50m [years]

05% of values less than 0	10% of values less than 1.44469	25% of values less than 5.83386
50% of values less than 4.17514E+007	75% of values less than 5.16537E+007	90% of values less than 5.86112E+007
Minimum 0.es less than 6.2289E+007	Maximum 7.22262E+007	
Mean 2.77013E+007	SD 2.63534E+007	Variance 6.94503E+014

Trichloroethene (TCE)

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.609014	10% of values less than 0.633222	25% of values less than 0.677263
50% of values less than 0.752945	75% of values less than 0.868925	90% of values less than 1.02176
Minimum 0.555089	Maximum 1.41415	
Mean 0.791896	SD 0.153218	Variance 0.0234757

Retarded Travel Time to ETP 50m [years]

05% of values less than 1.10533	10% of values less than 1.24519	25% of values less than 1.52773
50% of values less than 2.05906	75% of values less than 2.54519	90% of values less than 3.19696
Minimum 0.85641s	Maximum 5.45892	
Mean 2.15222	SD 0.813501	Variance 0.661784

Vinyl Chloride

Unretarded Travel Time to ETP 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP 50m [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.0329322	10% of values less than 0.062481	25% of values less than 0.14475
50% of values less than 0.372912	75% of values less than 0.543044	90% of values less than 0.682886
Minimum 0.00067811an 0.749258	Maximum 1.06314	
Mean 0.36495	SD 0.238149	Variance 0.056715

Retarded Travel Time to ETP 50m [years]

05% of values less than 3.36372	10% of values less than 6.3741	25% of values less than 14.4683
50% of values less than 37.5554	75% of values less than 55.2224	90% of values less than 68.4127
Minimum 0.06655841an 79.2056	Maximum 145.826	
Mean 37.4259	SD 25.6843	Variance 659.685

EC16-EC21 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.0329322	10% of values less than 0.062481	25% of values less than 0.14475
50% of values less than 0.372912	75% of values less than 0.543044	90% of values less than 0.682886
Minimum 0.00067811an 0.749258	Maximum 1.06314	
Mean 0.36495	SD 0.238149	Variance 0.056715

Retarded Travel Time to ETP 50m [years]

05% of values less than 10.6751	10% of values less than 20.2543	25% of values less than 46.0099
50% of values less than 119.229	75% of values less than 175.342	90% of values less than 217.396
Minimum 0.211495than 252.071	Maximum 464.422	
Mean 118.96	SD 81.6862	Variance 6672.63

EC10-EC12 Aromatics

Unretarded Travel Time to ETP 50m [years]

05% of values less than 0.0329322	10% of values less than 0.062481	25% of values less than 0.14475
50% of values less than 0.372912	75% of values less than 0.543044	90% of values less than 0.682886
Minimum 0.00067811an 0.749258	Maximum 1.06314	
Mean 0.36495	SD 0.238149	Variance 0.056715

Retarded Travel Time to ETP 50m [years]

05% of values less than 1.70204	10% of values less than 3.22113	25% of values less than 7.2998
50% of values less than 18.9931	75% of values less than 27.9209	90% of values less than 34.5529
Minimum 0.03361821an 39.9434	Maximum 73.4174	
Mean 18.8954	SD 12.9567	Variance 167.876

1,2-Dichloroethene (1,2-DCE)

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 2.0185E-015	10% of values less than 8.03781E-015	25% of values less than 2.58634E-013
50% of values less than 2.5112E-011	75% of values less than 1.07319E-009	90% of values less than 1.0298E-008
Minimum 3.35251E-017 2.63874E-008	Maximum 1.37372E-007	
Mean 4.12572E-009	SD 1.31475E-008	Variance 1.72856E-016

Lead

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.00147825	75% of values less than 0.00203261	90% of values less than 0.00210873
Minimum 0.00000000	Maximum 0.002115	
Mean 0.00117902	SD 0.00086405	Variance 7.46583E-007

Naphthalene

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.000232892	90% of values less than 0.000658848
Minimum 0.es less than 0.001291	Maximum 0.001291	
Mean 0.00020161	SD 0.000371276	Variance 1.37846E-007

Trichloroethene (TCE)

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 1.77388E-015	10% of values less than 1.00553E-014	25% of values less than 2.98882E-013
50% of values less than 2.95675E-011	75% of values less than 1.87756E-009	90% of values less than 2.02876E-008
Minimum 1.01557E-017 4.91363E-008	Maximum 0.018901	
Mean 0.000265655	SD 0.00178082	Variance 3.17132E-006

Vinyl Chloride

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0.0031751	10% of values less than 0.00460702	25% of values less than 0.00739583
50% of values less than 0.0153702	75% of values less than 0.0674077	90% of values less than 0.081945
Minimum 0.0004876411 0.0910867	Maximum 0.104282	
Mean 0.036516	SD 0.0324646	Variance 0.00105395

EC16-EC21 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0.000139129	10% of values less than 0.000275562	25% of values less than 0.0010506
50% of values less than 0.00522012	75% of values less than 0.0292376	90% of values less than 0.0512285
Minimum 4.58178E-007 0.0774018	Maximum 0.0870152	
Mean 0.0178998	SD 0.0225595	Variance 0.000508933

EC10-EC12 Aromatics

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 7.6525E-008	10% of values less than 3.55652E-007	25% of values less than 6.21991E-006
50% of values less than 9.1858E-005	75% of values less than 0.00282134	90% of values less than 0.00817332
Minimum 3.19743E-011 0.0154262	Maximum 0.0158007	
Mean 0.00246718	SD 0.00444419	Variance 1.97508E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.404667	10% of values less than 0.430199	25% of values less than 0.486896
50% of values less than 0.560295	75% of values less than 0.652873	90% of values less than 0.780191
Minimum 0.354171 than 0.854412	Maximum 1.13109	
Mean 0.584104	SD 0.136794	Variance 0.0187125

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.727455	10% of values less than 0.774738	25% of values less than 0.867851
50% of values less than 1.0114	75% of values less than 1.17619	90% of values less than 1.3976
Minimum 0.646743 than 1.58304	Maximum 2.30184	
Mean 1.05939	SD 0.267796	Variance 0.0717146

Lead

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.0006501731 1E+006	Maximum 1E+006	
Mean 978022	SD 146685	Variance 2.15165E+010

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 2.11845E+009	10% of values less than 2.28713E+009	25% of values less than 2.59112E+009
50% of values less than 2.99491E+009	75% of values less than 3.45968E+009	90% of values less than 3.86113E+009
Minimum 2.2115ss than 4.10811E+009	Maximum 4.82854E+009	
Mean 2.99656E+009	SD 7.28216E+008	Variance 5.30299E+017

Naphthalene

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 953047	SD 211644	Variance 4.47932E+010

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 3.68541E+007	10% of values less than 4.10813E+007	25% of values less than 4.54008E+007
50% of values less than 5.05903E+007	75% of values less than 5.66902E+007	90% of values less than 6.22166E+007
Minimum 0.es less than 6.48225E+007	Maximum 7.5017E+007	
Mean 4.94078E+007	SD 1.31935E+007	Variance 1.74069E+014

Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.401681	10% of values less than 0.421873	25% of values less than 0.462925
50% of values less than 0.52162	75% of values less than 0.598127	90% of values less than 0.712879
Minimum 0.354171 than 0.770799	Maximum 1.01574	
Mean 0.544829	SD 0.112339	Variance 0.0126201

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.752356	10% of values less than 0.848786	25% of values less than 1.03648
50% of values less than 1.41008	75% of values less than 1.75995	90% of values less than 2.23302
Minimum 0.569271 than 2.54571	Maximum 3.71743	
Mean 1.48042	SD 0.569019	Variance 0.323782

Vinyl Chloride

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 1.90908E+006	10% of values less than 1.94494E+006	25% of values less than 2.02465E+006
50% of values less than 2.1395E+006	75% of values less than 2.27555E+006	90% of values less than 2.39744E+006
Minimum 1.80689E+0062.45515E+006	Maximum 2.68759E+006	
Mean 2.15728E+006	SD 169991	Variance 2.88971E+010

EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.070928	10% of values less than 0.0977978	25% of values less than 0.178396
50% of values less than 0.279292	75% of values less than 0.366148	90% of values less than 0.453499
Minimum 0.00134391	Maximum 0.756377	
Mean 0.279478	SD 0.134812	Variance 0.0181743

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 7.1757	10% of values less than 10.0596	25% of values less than 17.6716
50% of values less than 27.9234	75% of values less than 37.1693	90% of values less than 46.202
Minimum 0.114325	Maximum 112.726	
Mean 28.6712	SD 15.0096	Variance 225.288

EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.070928	10% of values less than 0.0977978	25% of values less than 0.178396
50% of values less than 0.279292	75% of values less than 0.366148	90% of values less than 0.453499
Minimum 0.00134391	Maximum 0.756377	
Mean 0.279478	SD 0.134812	Variance 0.0181743

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 22.825	10% of values less than 31.9543	25% of values less than 56.0094
50% of values less than 88.7122	75% of values less than 118.079	90% of values less than 146.851
Minimum 0.362866	Maximum 359.059	
Mean 91.133	SD 47.7526	Variance 2280.31

EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 0.070928	10% of values less than 0.0977978	25% of values less than 0.178396
50% of values less than 0.279292	75% of values less than 0.366148	90% of values less than 0.453499
Minimum 0.00134391	Maximum 0.756377	
Mean 0.279478	SD 0.134812	Variance 0.0181743

Retarded Travel Time to Tank Farm 50m [years]

05% of values less than 3.61905	10% of values less than 5.0835	25% of values less than 8.95846
50% of values less than 14.1077	75% of values less than 18.7594	90% of values less than 23.343
Minimum 0.05783171	Maximum 56.7411	
Mean 14.4753	SD 7.56807	Variance 57.2756

1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0.000150395	10% of values less than 0.000310696	25% of values less than 0.00108089
50% of values less than 0.00550479	75% of values less than 0.044483	90% of values less than 0.044483
Minimum 1.43311E-005 0.044483	Maximum 0.044483	
Mean 0.0220711	SD 0.0213869	Variance 0.0004574

Lead

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.002115	
Mean 0.000103531	SD 0.000456573	Variance 2.08459E-007

Naphthalene

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.001291	
Mean 6.06164E-005	SD 0.000273232	Variance 7.4656E-008

Trichloroethene (TCE)

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 6.17745E-005	10% of values less than 0.000120475	25% of values less than 0.000361702
50% of values less than 0.00148926	75% of values less than 0.00462555	90% of values less than 0.018901
Minimum 2.15779E-006 0.018901	Maximum 0.018901	
Mean 0.0044752	SD 0.00627333	Variance 3.93546E-005

Vinyl Chloride

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

EC12-EC16 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0.00197189	10% of values less than 0.00281897	25% of values less than 0.0045356
50% of values less than 0.00701506	75% of values less than 0.0101745	90% of values less than 0.0135067
Minimum 0.00026323an 0.0171203	Maximum 0.102839	
Mean 0.0110636	SD 0.0179213	Variance 0.000321173

EC16-EC21 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 2.10135E-005	10% of values less than 5.11657E-005	25% of values less than 0.000189453
50% of values less than 0.000506485	75% of values less than 0.00126175	90% of values less than 0.00270796
Minimum 5.36253E-008 0.0043355	Maximum 0.07942	
Mean 0.00353645	SD 0.0139584	Variance 0.000194836

EC10-EC12 Aromatics

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 2.26958E-008	10% of values less than 1.59369E-007	25% of values less than 1.59818E-006
50% of values less than 1.77867E-005	75% of values less than 8.97923E-005	90% of values less than 0.000309726
Minimum 6.97242E-012 0.000956041	Maximum 0.0162886	
Mean 0.000793327	SD 0.00326703	Variance 1.06735E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.79413	10% of values less than 2.84064	25% of values less than 2.99096
50% of values less than 3.29981	75% of values less than 3.80162	90% of values less than 4.53248
Minimum 2.71033s than 4.76031	Maximum 5.81263	
Mean 3.4957	SD 0.643385	Variance 0.413944

Retarded Travel Time to DCE Receptor [years]

05% of values less than 4.95604	10% of values less than 5.10413	25% of values less than 5.38566
50% of values less than 5.98903	75% of values less than 6.88905	90% of values less than 7.99277
Minimum 4.6628ss than 9.35415	Maximum 11.9041	
Mean 6.34225	SD 1.32173	Variance 1.74696

Lead

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.6341	10% of values less than 1.7091	25% of values less than 1.83407
50% of values less than 2.02737	75% of values less than 2.38122	90% of values less than 2.76198
Minimum 1.4961ss than 2.9331	Maximum 3.6583	
Mean 2.13907	SD 0.410503	Variance 0.168512

Retarded Travel Time to DCE Receptor [years]

05% of values less than 4347.5	10% of values less than 4622.15	25% of values less than 5260.66
50% of values less than 6119.91	75% of values less than 7273.48	90% of values less than 9092.91
Minimum 3579.81s than 10554.8	Maximum 15942.4	
Mean 6571.69	SD 1948.4	Variance 3.79626E+006

Naphthalene

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor [years]

05% of values less than 97.1112	10% of values less than 102.008	25% of values less than 110.913
50% of values less than 125.59	75% of values less than 145.587	90% of values less than 180.741
Minimum 80.0946s than 221.91	Maximum 329.777	
Mean 135.023	SD 36.834	Variance 1356.75

Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.78147	10% of values less than 2.82699	25% of values less than 2.96884
50% of values less than 3.24213	75% of values less than 3.77398	90% of values less than 4.46354
Minimum 2.71033s than 4.69861	Maximum 5.71086	
Mean 3.45642	SD 0.62818	Variance 0.39461

Retarded Travel Time to DCE Receptor [years]

05% of values less than 4.85209	10% of values less than 5.42874	25% of values less than 6.66117
50% of values less than 9.0056	75% of values less than 11.2628	90% of values less than 13.8867
Minimum 3.91783s than 15.7566	Maximum 24.3174	
Mean 9.39728	SD 3.50612	Variance 12.2928

Vinyl Chloride

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.71447	10% of values less than 1.78795	25% of values less than 1.92658
50% of values less than 2.12019	75% of values less than 2.44894	90% of values less than 2.91624
Minimum 1.58553s than 3.12315	Maximum 3.8316	
Mean 2.23789	SD 0.427757	Variance 0.182976

Retarded Travel Time to DCE Receptor [years]

05% of values less than 3.63284	10% of values less than 3.80615	25% of values less than 4.11369
50% of values less than 4.55165	75% of values less than 5.25452	90% of values less than 6.23849
Minimum 3.1407ss than 7.30093	Maximum 9.65581	
Mean 4.83448	SD 1.07192	Variance 1.14902

EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor [years]

05% of values less than 192.167	10% of values less than 201.938	25% of values less than 219.607
50% of values less than 248.661	75% of values less than 288.624	90% of values less than 358.288
Minimum 158.371s than 440.232	Maximum 655.158	
Mean 267.445	SD 73.2618	Variance 5367.29

EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor [years]

05% of values less than 610.358	10% of values less than 641.669	25% of values less than 697.831
50% of values less than 790.122	75% of values less than 917.484	90% of values less than 1139.66
Minimum 502.787s than 1400.85	Maximum 2086.83	
Mean 850.098	SD 233.546	Variance 54543.9

EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.96914	10% of values less than 2.06065	25% of values less than 2.23189
50% of values less than 2.47853	75% of values less than 2.86286	90% of values less than 3.36959
Minimum 1.81836s than 3.62951	Maximum 4.40817	
Mean 2.60191	SD 0.509164	Variance 0.259248

Retarded Travel Time to DCE Receptor [years]

05% of values less than 97.1112	10% of values less than 102.008	25% of values less than 110.913
50% of values less than 125.59	75% of values less than 145.587	90% of values less than 180.741
Minimum 80.0946s than 221.91	Maximum 329.777	
Mean 135.023	SD 36.834	Variance 1356.75

1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.12294E-010	10% of values less than 7.9935E-010	25% of values less than 1.11213E-008
50% of values less than 1.35079E-007	75% of values less than 9.31804E-007	90% of values less than 2.9302E-006
Minimum 1.64111E-014 4.94679E-006	Maximum 2.10321E-005	
Mean 9.67368E-007	SD 2.05343E-006	Variance 4.21658E-012

Lead

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 2.24089E-019	10% of values less than 5.13556E-019	25% of values less than 2.31623E-018
50% of values less than 2.15936E-017	75% of values less than 3.49221E-016	90% of values less than 1.4516E-015
Minimum 3.22131E-020 2.18786E-015	Maximum 4.70186E-015	
Mean 4.05299E-016	SD 8.30436E-016	Variance 6.89624E-031

Naphthalene

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 5.02282E-029	25% of values less than 3.83189E-025
50% of values less than 1.79588E-021	75% of values less than 1.14009E-018	90% of values less than 1.15417E-016
Minimum 0.es less than 1.5144E-015	Maximum 1.40802E-012	
Mean 3.15703E-015	SD 5.0679E-014	Variance 2.56836E-027

Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 8.55656E-010	10% of values less than 3.123E-008	25% of values less than 3.08133E-006
50% of values less than 4.79527E-005	75% of values less than 0.00020811	90% of values less than 0.000441418
Minimum 1.24418E-018 0.000643916	Maximum 0.00141006	
Mean 0.000149383	SD 0.00022874	Variance 5.23222E-008

Vinyl Chloride

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.7502E-007	10% of values less than 6.31895E-007	25% of values less than 7.55782E-006
50% of values less than 4.95699E-005	75% of values less than 0.000138471	90% of values less than 0.000261539
Minimum 2.3259E-010n 0.000330998	Maximum 0.000691946	
Mean 9.31351E-005	SD 0.000114688	Variance 1.31532E-008

EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 2.49756E-009	10% of values less than 1.37981E-008	25% of values less than 1.21586E-007
50% of values less than 7.67552E-007	75% of values less than 3.30136E-006	90% of values less than 8.59396E-006
Minimum 3.44814E-012 1.4463E-005	Maximum 7.62481E-005	
Mean 3.18607E-006	SD 6.42675E-006	Variance 4.13031E-011

EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 6.18467E-019	10% of values less than 4.44076E-017	25% of values less than 4.37739E-015
50% of values less than 4.2224E-013	75% of values less than 1.17536E-011	90% of values less than 1.47971E-010
Minimum 1.14744E-027 4.96868E-010	Maximum 2.33777E-008	
Mean 1.40632E-010	SD 9.52676E-010	Variance 9.07591E-019

EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 5.34189E-028	25% of values less than 1.03365E-023
50% of values less than 7.83336E-020	75% of values less than 8.22203E-017	90% of values less than 5.44279E-015
Minimum 0.es less than 2.93347E-014	Maximum 4.57248E-012	
Mean 2.10389E-014	SD 2.03852E-013	Variance 4.15558E-026

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.8778	10% of values less than 2.92466	25% of values less than 3.08096
50% of values less than 3.3994	75% of values less than 3.91466	90% of values less than 4.66655
Minimum 2.79317s than 4.90249	Maximum 5.97928	
Mean 3.59904	SD 0.661949	Variance 0.438176

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 5.10619	10% of values less than 5.25463	25% of values less than 5.54812
50% of values less than 6.16387	75% of values less than 7.09466	90% of values less than 8.2213
Minimum 4.80248s than 9.63326	Maximum 12.2515	
Mean 6.52976	SD 1.36013	Variance 1.84995

Lead

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.71758	10% of values less than 1.79496	25% of values less than 1.92598
50% of values less than 2.12258	75% of values less than 2.49236	90% of values less than 2.894
Minimum 1.57902s than 3.06747	Maximum 3.82326	
Mean 2.24241	SD 0.428016	Variance 0.183198

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 4561.16	10% of values less than 4868.3	25% of values less than 5514.73
50% of values less than 6425.86	75% of values less than 7625.47	90% of values less than 9533.89
Minimum 3781.04s than 11028.3	Maximum 16621.6	
Mean 6888.96	SD 2036.48	Variance 4.14726E+006

Naphthalene

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 101.314	10% of values less than 106.335	25% of values less than 115.318
50% of values less than 130.32	75% of values less than 151.247	90% of values less than 187.785
Minimum 83.7379s than 231.004	Maximum 341.71	
Mean 140.387	SD 38.1881	Variance 1458.33

Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.86561	10% of values less than 2.91238	25% of values less than 3.05843
50% of values less than 3.33855	75% of values less than 3.88745	90% of values less than 4.59879
Minimum 2.79317s than 4.84089	Maximum 5.87751	
Mean 3.55977	SD 0.646817	Variance 0.418372

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 4.99412	10% of values less than 5.59201	25% of values less than 6.86217
50% of values less than 9.27683	75% of values less than 11.5964	90% of values less than 14.3007
Minimum 4.03623s than 16.222	Maximum 25.0488	
Mean 9.67828	SD 3.61087	Variance 13.0384

Vinyl Chloride

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.79987	10% of values less than 1.87404	25% of values less than 2.01651
50% of values less than 2.21515	75% of values less than 2.55976	90% of values less than 3.04623
Minimum 1.66833s than 3.25393	Maximum 3.99655	
Mean 2.34123	SD 0.445458	Variance 0.198433

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.81569	10% of values less than 3.99161	25% of values less than 4.29892
50% of values less than 4.75893	75% of values less than 5.49018	90% of values less than 6.51638
Minimum 3.30471s than 7.62063	Maximum 10.0583	
Mean 5.05776	SD 1.11776	Variance 1.24939

EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 200.368	10% of values less than 210.625	25% of values less than 228.23
50% of values less than 258.105	75% of values less than 299.736	90% of values less than 372.283
Minimum 165.575s than 458.274	Maximum 678.865	
Mean 278.069	SD 75.9567	Variance 5769.42

EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 636.465	10% of values less than 669.499	25% of values less than 725.582
50% of values less than 819.565	75% of values less than 953.466	90% of values less than 1184.08
Minimum 525.657s than 1458.26	Maximum 2162.35	
Mean 883.868	SD 242.141	Variance 58632.2

EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.05837	10% of values less than 2.14717	25% of values less than 2.32251
50% of values less than 2.57329	75% of values less than 2.97144	90% of values less than 3.5035
Minimum 1.90107s than 3.76859	Maximum 4.57363	
Mean 2.70525	SD 0.52658	Variance 0.277286

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 101.314	10% of values less than 106.335	25% of values less than 115.318
50% of values less than 130.32	75% of values less than 151.247	90% of values less than 187.785
Minimum 83.7379s than 231.004	Maximum 341.71	
Mean 140.387	SD 38.1881	Variance 1458.33

1,2-Dichloroethene (1,2-DCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 7.47729E-012	10% of values less than 4.95222E-011	25% of values less than 8.14515E-010
50% of values less than 1.13511E-008	75% of values less than 8.28133E-008	90% of values less than 3.59441E-007
Minimum 3.80477E-016 6.33875E-007	Maximum 4.1787E-006	
Mean 1.18299E-007	SD 2.96785E-007	Variance 8.80812E-014

Lead

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 5.10801E-015	10% of values less than 5.64314E-015	25% of values less than 6.77687E-015
50% of values less than 8.56377E-015	75% of values less than 1.03859E-014	90% of values less than 1.13071E-014
Minimum 9.31718E-016 1.16024E-014	Maximum 1.17652E-014	
Mean 8.46931E-015	SD 2.13238E-015	Variance 4.54703E-030

Naphthalene

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 2.36662E-028	10% of values less than 4.97693E-026	25% of values less than 5.93839E-022
50% of values less than 3.70737E-018	75% of values less than 1.42918E-015	90% of values less than 6.76332E-014
Minimum 0.es less than 3.73265E-013	Maximum 1.98858E-010	
Mean 4.89901E-013	SD 7.45617E-012	Variance 5.55945E-023

Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 9.44893E-011	10% of values less than 2.74504E-009	25% of values less than 2.32991E-007
50% of values less than 4.52835E-006	75% of values less than 2.25868E-005	90% of values less than 7.00015E-005
Minimum 3.40127E-020 0.000112781	Maximum 0.000440423	
Mean 2.26127E-005	SD 4.43563E-005	Variance 1.96748E-009

Vinyl Chloride

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.80541E-013	10% of values less than 1.04881E-012	25% of values less than 1.27782E-011
50% of values less than 2.40465E-010	75% of values less than 2.59006E-009	90% of values less than 1.7449E-008
Minimum 4.58735E-016 4.45774E-008	Maximum 3.9239E-007	
Mean 8.46293E-009	SD 2.96651E-008	Variance 8.80017E-016

EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 5.08559E-007	10% of values less than 2.0054E-006	25% of values less than 1.37661E-005
50% of values less than 6.45985E-005	75% of values less than 0.000214959	90% of values less than 0.000480094
Minimum 1.68739E-009 0.000737195	Maximum 0.0025576	
Mean 0.000169298	SD 0.000251871	Variance 6.34391E-008

EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 9.8124E-016	10% of values less than 2.04358E-014	25% of values less than 4.13278E-012
50% of values less than 1.86325E-010	75% of values less than 3.97927E-009	90% of values less than 2.80508E-008
Minimum 9.38196E-024 7.65289E-008	Maximum 1.88711E-006	
Mean 1.76686E-008	SD 8.80535E-008	Variance 7.75341E-015

EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.53889E-027	10% of values less than 5.06579E-025	25% of values less than 6.80515E-021
50% of values less than 5.39789E-017	75% of values less than 3.04292E-014	90% of values less than 1.73276E-012
Minimum 0.es less than 7.39674E-012	Maximum 6.02507E-010	
Mean 3.05931E-012	SD 2.54685E-011	Variance 6.48646E-022

Aquifer Flow [m³/yr]

VC Main Factory Building

05% of values less than 9503.82	10% of values less than 11663.1	25% of values less than 14491
50% of values less than 16721.6	75% of values less than 18506.4	90% of values less than 18990.6
Minimum 7707.8ss than 19056.8	Maximum 19157.4	
Mean 16066.7	SD 2885.61	Variance 8.32675E+006

Boiler House

05% of values less than 16212.8	10% of values less than 19896.3	25% of values less than 24720.5
50% of values less than 28525.8	75% of values less than 31570.4	90% of values less than 32396.6
Minimum 13148.9s than 32509.4	Maximum 32681	
Mean 27408.6	SD 4922.63	Variance 2.42323E+007

ETP

05% of values less than 8404.09	10% of values less than 10313.5	25% of values less than 12814.2
50% of values less than 14786.7	75% of values less than 16364.9	90% of values less than 16793.2
Minimum 6815.9ss than 16851.7	Maximum 16940.6	
Mean 14207.6	SD 2551.7	Variance 6.51119E+006

Tank Farm

05% of values less than 7859.38	10% of values less than 9645.02	25% of values less than 11983.6
50% of values less than 13828.3	75% of values less than 15304.2	90% of values less than 15704.7
Minimum 6374.13s than 15759.4	Maximum 15842.6	
Mean 13286.7	SD 2386.32	Variance 5.6945E+006

Tank Farm Lagoon CHCs

05% of values less than 7481.93	10% of values less than 9181.81	25% of values less than 11408.1
50% of values less than 13164.2	75% of values less than 14569.2	90% of values less than 14950.5
Minimum 6068.01s than 15002.6	Maximum 15081.8	
Mean 12648.6	SD 2271.71	Variance 5.16068E+006

Aquifer Flow [m³/yr]

TCE - waste/oil

05% of values less than 3444.52	10% of values less than 4227.11	25% of values less than 5252.06
50% of values less than 6060.52	75% of values less than 6707.37	90% of values less than 6882.89
Minimum 2793.58s than 6906.87	Maximum 6943.33	
Mean 5823.15	SD 1045.85	Variance 1.0938E+006

Lead Boiler House

05% of values less than 6595.88	10% of values less than 8094.45	25% of values less than 10057.1
50% of values less than 11605.2	75% of values less than 12843.9	90% of values less than 13180
Minimum 5349.4ss than 13225.9	Maximum 13295.7	
Mean 11150.7	SD 2002.68	Variance 4.01074E+006

Lead MFB core and store

05% of values less than 14597.4	10% of values less than 17913.9	25% of values less than 22257.4
50% of values less than 25683.6	75% of values less than 28424.8	90% of values less than 29168.6
Minimum 11838.8s than 29270.3	Maximum 29424.8	
Mean 24677.6	SD 4432.15	Variance 1.96439E+007

Appendix F.3

SOIL BASE MODEL INPUTS AND RESULTS



Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Project Details

Title: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Prepared By: WSP

Date: 2024-04-09 13:52:17

Client Name: Ford Motor Company

Comments:

Soil source model with UCL95 source concentrations. Hazardous substances - Level 2 model. Level 3 model for non-hazardous substances

Consim version 2.05

Simulation Level

Level 3

Simulation Parameters

Iterations 1001

Timeslices:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

Water Quality Standard

User Defined

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

Boiler House Aromatics

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] SINGLE(0.001)

Infiltration

Infiltration [mm/year] UNIFORM(270,330)

Source Inventory:

Naphthalene

Measured as Total Concentration in Soil

Organic

koc [ml/g] SINGLE(2500)

Henry's Law Constant SINGLE(0.049)

Concentration [mg/kg] SINGLE(7.108)

Calculate kd

Maximum Solubility [mg/l] SINGLE(32.9)

EC10-EC12 Aromatics

Measured as Total Concentration in Soil

Organic

koc [ml/g] SINGLE(2500)

Henry's Law Constant SINGLE(0.49)

Concentration [mg/kg] SINGLE(60.704)

Calculate kd

Maximum Solubility [mg/l] SINGLE(25)

EC12-EC16 Aromatics

Measured as Total Concentration in Soil

Organic

koc [ml/g] SINGLE(5000)

Henry's Law Constant SINGLE(0.054)

Concentration [mg/kg] SINGLE(280.918)

Calculate kd

Maximum Solubility [mg/l] SINGLE(5.8)

EC16-EC21 Aromatics

Measured as Total Concentration in Soil

Organic

koc [ml/g] SINGLE(16000)

Henry's Law Constant SINGLE(0.013)

Concentration [mg/kg] SINGLE(1101.42)

Calculate kd

Maximum Solubility [mg/l] SINGLE(0.65)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

Active

Porous Medium

Thickness [m] UNIFORM(0.001,2)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Vertical Dispersivity [m] UNIFORM(0.0001,0.2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Water Filled Porosity [fraction] UNIFORM(0.159,0.239)

Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

Naphthalene

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(1.096,3.29)

EC10-EC12 Aromatics

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(1.096,3.29)

EC12-EC16 Aromatics

koc [ml/g] SINGLE(5000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(17.6,34)

EC16-EC21 Aromatics

koc [ml/g] SINGLE(16000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(17.6,34)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

ETP Aromatics

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] SINGLE(0.001)

Infiltration

Infiltration [mm/year] UNIFORM(90,110)

Source Inventory:

EC10-EC12 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(14.9)

Organic

koc [ml/g] SINGLE(2500)

Calculate kd

Henry's Law Constant SINGLE(0.49)

Maximum Solubility [mg/l] SINGLE(25)

EC12-EC16 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(105)

Organic

koc [ml/g] SINGLE(5000)

Calculate kd

Henry's Law Constant SINGLE(0.054)

Maximum Solubility [mg/l] SINGLE(5.8)

EC16-EC21 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(372)

Organic

koc [ml/g] SINGLE(16000)

Calculate kd

Henry's Law Constant SINGLE(0.013)

Maximum Solubility [mg/l] SINGLE(0.65)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

- Active
- Porous Medium
- Thickness [m] UNIFORM(0.001,2)
- Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)
- Vertical Dispersivity [m] UNIFORM(0.0001,0.2)
- Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)
- Water Filled Porosity [fraction] UNIFORM(0.159,0.239)
- Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

EC10-EC12 Aromatics

- koc [ml/g] SINGLE(2500) Calculate kd
- Simulate Degradation in Dissolved and sorbed phases
- Halflife [years] UNIFORM(1.096,3.29)

EC12-EC16 Aromatics

- koc [ml/g] SINGLE(5000) Calculate kd
- Simulate Degradation in Dissolved and sorbed phases
- Halflife [years] UNIFORM(17.6,34)

EC16-EC21 Aromatics

- koc [ml/g] SINGLE(16000) Calculate kd
- Simulate Degradation in Dissolved and sorbed phases
- Halflife [years] UNIFORM(17.6,34)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

Tank Farm Aromatics

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] SINGLE(0.001)

Infiltration

Infiltration [mm/year] UNIFORM(90,110)

Source Inventory:

EC10-EC12 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(11.362)

Organic

koc [ml/g] SINGLE(2500)

Calculate kd

Henry's Law Constant SINGLE(0.49)

Maximum Solubility [mg/l] SINGLE(25)

EC12-EC16 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(45.568)

Organic

koc [ml/g] SINGLE(5000)

Calculate kd

Henry's Law Constant SINGLE(0.054)

Maximum Solubility [mg/l] SINGLE(5.8)

EC16-EC21 Aromatics

Measured as Total Concentration in Soil

Concentration [mg/kg] SINGLE(97.354)

Organic

koc [ml/g] SINGLE(16000)

Calculate kd

Henry's Law Constant SINGLE(0.013)

Maximum Solubility [mg/l] SINGLE(0.65)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

Active

Porous Medium

Thickness [m] UNIFORM(0.001,2)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Vertical Dispersivity [m] UNIFORM(0.0001,0.2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Water Filled Porosity [fraction] UNIFORM(0.159,0.239)

Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

EC10-EC12 Aromatics

koc [ml/g] SINGLE(2500) Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(1.096,3.29)

EC12-EC16 Aromatics

koc [ml/g] SINGLE(5000) Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(17.6,34)

EC16-EC21 Aromatics

koc [ml/g] SINGLE(16000) Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(17.6,34)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

DCE Tank Farm Lagoon

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] UNIFORM(0.001,2)

Infiltration

Infiltration [mm/year] UNIFORM(90,110)

Source Inventory:

<i>1,2-Dichloroethene (1,2-DCE)</i>	
Measured as Total Concentration in Soil	Concentration [mg/kg] SINGLE(0.9768)
Organic	
koc [ml/g] SINGLE(40)	Calculate kd
Henry's Law Constant SINGLE(0.0419)	Maximum Solubility [mg/l] SINGLE(500)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

Active

Porous Medium

Thickness [m] UNIFORM(0.001,2)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Vertical Dispersivity [m] UNIFORM(0.0001,0.2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Water Filled Porosity [fraction] UNIFORM(0.159,0.239)

Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

1,2-Dichloroethene (1,2-DCE)

koc [ml/g] SINGLE(40)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] SINGLE(1e+009)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

TCE Tank Farm Lagoon

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] UNIFORM(0.001,2)

Infiltration

Infiltration [mm/year] UNIFORM(90,110)

Source Inventory:

<i>Trichloroethene (TCE)</i>	
Measured as Total Concentration in Soil	Concentration [mg/kg] SINGLE(69.948)
Organic	
koc [ml/g] UNIFORM(18,152)	Calculate kd
Henry's Law Constant SINGLE(0.417)	Maximum Solubility [mg/l] SINGLE(1100)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

Active

Porous Medium

Thickness [m] UNIFORM(0.001,2)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Vertical Dispersivity [m] UNIFORM(0.0001,0.2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Water Filled Porosity [fraction] UNIFORM(0.159,0.239)

Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

Trichloroethene (TCE)

koc [ml/g] UNIFORM(18,152)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(0.27,2.74)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Source

TCE Waste Chip Plant

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Moisture Content [%] UNIFORM(10.4,12.8)

Particle Density [g/cm³] SINGLE(2.65)

Thickness [m] SINGLE(2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Contaminated Land

Constant Source Term

Overall Unsaturated Zone Thickness [m] UNIFORM(0.001,2)

Infiltration

Infiltration [mm/year] UNIFORM(90,110)

Source Inventory:

Trichloroethene (TCE)

Measured as Total Concentration in Soil

Organic

koc [ml/g] UNIFORM(18,152)

Henry's Law Constant SINGLE(0.417)

Concentration [mg/kg] SINGLE(4.976)

Calculate kd

Maximum Solubility [mg/l] SINGLE(1100)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Unsaturated Pathway: Superficial

Active

Porous Medium

Thickness [m] UNIFORM(0.001,2)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Vertical Dispersivity [m] UNIFORM(0.0001,0.2)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Water Filled Porosity [fraction] UNIFORM(0.159,0.239)

Unsaturated Conductivity [m/s] UNIFORM(8e-005,0.0005)

Unsaturated Pathway Contaminants

Trichloroethene (TCE)

koc [ml/g] UNIFORM(18,152)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(0.27,2.74)

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Aquifer Pathway

Thickness [m] UNIFORM(5,9)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Mixing Zone Thickness [m] SINGLE(5)

Hydraulic Conductivity [m/s] UNIFORM(8e-005,0.0005)

Effective Porosity [fraction] UNIFORM(0.159,0.239)

Hydraulic Gradient UNIFORM(0.002,0.007)

Groundwater Flow Direction (degrees), 337.00

Longitudinal Dispersivity [m] SINGLE(46)

Lateral Dispersivity [m] SINGLE(13.8)

Contaminant Inventory

1,2-Dichloroethene (1,2-DCE)

koc [ml/g] SINGLE(40)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(0.22,0.47)

Naphthalene

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(1.096,3.29)

Trichloroethene (TCE)

koc [ml/g] UNIFORM(18,152)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(0.27,2.74)

EC10-EC12 Aromatics

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(1.096,3.29)

EC12-EC16 Aromatics

koc [ml/g] SINGLE(5000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(17.6,34)

EC16-EC21 Aromatics

koc [ml/g] SINGLE(16000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Half-life [years] UNIFORM(17.6,34)

Receptor

Boiler House Aromatics Receptor	X 293472.640286	Y 178424.050637
ETP Aromatics Receptor	X 293553.750982	Y 178327.201215
Tank Farm Aromatics Receptor	X 293444.036173	Y 178223.136600
DCE Tank Farm Lagoon Receptor	X 293463.491689	Y 178227.205234
TCE Tank Farm Lagoon Receptor	X 293412.593288	Y 178205.892135
TCE Waste Chip Plant Receptor	X 293213.024892	Y 178130.027975
Naphthalene Receptor	X 293305.967350	Y 178838.047340
DCE Receptor	X 293185.321656	Y 178785.564559

Input Correlations

porosity to K	1
K to i	-1

Boiler House Aromatics - Naphthalene

Concentration at Source [mg/l] - 1000 years

05% of values less than 1.08413	10% of values less than 1.09517	25% of values less than 1.13008
50% of values less than 1.18592	75% of values less than 1.25325	90% of values less than 1.29484
Minimum 1.07267s than 1.30951	Maximum 1.3237	
Mean 1.19184	SD 0.0717276	Variance 0.00514485

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 9.1967	10% of values less than 9.2904	25% of values less than 9.58465
50% of values less than 10.0657	75% of values less than 10.6159	90% of values less than 10.9641
Minimum 9.07514s than 11.1094	Maximum 11.2471	
Mean 10.106	SD 0.605503	Variance 0.366634

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 5.8	10% of values less than 5.8	25% of values less than 5.8
50% of values less than 5.8	75% of values less than 5.8	90% of values less than 5.8
Minimum 5.8s less than 5.8	Maximum 5.8	
Mean 5.8	SD 1.27964E-006	Variance -1.63749E-012

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 0.65	10% of values less than 0.65	25% of values less than 0.65
50% of values less than 0.65	75% of values less than 0.65	90% of values less than 0.65
Minimum 0.65 less than 0.65	Maximum 0.65	
Mean 0.65	SD 1.58678E-007	Variance 2.51787E-014

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.000412434	
Mean 1.166E-006	SD 1.83088E-005	Variance 3.35212E-010

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.0244473	
Mean 6.54641E-005	SD 0.00103801	Variance 1.07747E-006

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.000412434	
Mean 1.166E-006	SD 1.83088E-005	Variance 3.35212E-010

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.0244473	
Mean 6.54641E-005	SD 0.00103801	Variance 1.07747E-006

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.000412434	
Mean 1.166E-006	SD 1.83088E-005	Variance 3.35212E-010

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.0484821	
Mean 0.000129762	SD 0.00205778	Variance 4.23445E-006

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.000412434	
Mean 1.166E-006	SD 1.83088E-005	Variance 3.35212E-010

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.154236	
Mean 0.000412674	SD 0.00654475	Variance 4.28338E-005

Boiler House Aromatics - Naphthalene

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 1.07674	10% of values less than 1.08767	25% of values less than 1.12281
50% of values less than 1.17799	75% of values less than 1.24351	90% of values less than 1.28534
Minimum 1.05821s than 1.29999	Maximum 1.31634	
Mean 1.18326	SD 0.0711454	Variance 0.00506167

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 9.14388	10% of values less than 9.22834	25% of values less than 9.51974
50% of values less than 9.99149	75% of values less than 10.5397	90% of values less than 10.8905
Minimum 8.99661s than 11.0285	Maximum 11.1645	
Mean 10.0334	SD 0.601194	Variance 0.361434

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 5.78675	10% of values less than 5.78783	25% of values less than 5.78931
50% of values less than 5.79089	75% of values less than 5.79206	90% of values less than 5.79287
Minimum 5.78336s than 5.79325	Maximum 5.79426	
Mean 5.79055	SD 0.00196869	Variance 3.87574E-006

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 0.646032	10% of values less than 0.64633	25% of values less than 0.646851
50% of values less than 0.647286	75% of values less than 0.647656	90% of values less than 0.647922
Minimum 0.644648 than 0.648045	Maximum 0.648343	
Mean 0.6472	SD 0.00062294	Variance 3.88054E-007

Boiler House Aromatics - Naphthalene

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.108685	10% of values less than 0.113158	25% of values less than 0.120371
50% of values less than 0.130361	75% of values less than 0.149306	90% of values less than 0.185949
Minimum 0.09814721an 0.210781	Maximum 0.279451	
Mean 0.139943	SD 0.0305012	Variance 0.000930322

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - EC10-EC12 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.922003	10% of values less than 0.959187	25% of values less than 1.02139
50% of values less than 1.10673	75% of values less than 1.26606	90% of values less than 1.57522
Minimum 0.834787 than 1.78492	Maximum 2.35444	
Mean 1.18664	SD 0.258609	Variance 0.0668784

Boiler House Aromatics - EC12-EC16 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.548018	10% of values less than 0.561947	25% of values less than 0.594207
50% of values less than 0.634882	75% of values less than 0.713308	90% of values less than 0.924742
Minimum 0.526812 than 1.042	Maximum 1.24307	
Mean 0.685055	SD 0.144624	Variance 0.0209162

Boiler House Aromatics - EC16-EC21 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0612009	10% of values less than 0.0627428	25% of values less than 0.066311
50% of values less than 0.0709416	75% of values less than 0.0797239	90% of values less than 0.103372
Minimum 0.05887741an 0.116461	Maximum 0.138923	
Mean 0.0765683	SD 0.0161692	Variance 0.000261442

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.100003	90% of values less than 0.162398
Minimum 0.181689	Maximum 0.261895	
Mean 0.0503558	SD 0.0673682	Variance 0.00453847

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.94383	90% of values less than 8.06102
Minimum 0.33547	Maximum 16.6257	
Mean 2.57679	SD 3.49401	Variance 12.2081

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.100003	90% of values less than 0.162398
Minimum 0.181689	Maximum 0.261895	
Mean 0.0503558	SD 0.0673682	Variance 0.00453847

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.94383	90% of values less than 8.06102
Minimum 0.33547	Maximum 16.6257	
Mean 2.57679	SD 3.49401	Variance 12.2081

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.100003	90% of values less than 0.162398
Minimum 0.181689	Maximum 0.261895	
Mean 0.0503558	SD 0.0673682	Variance 0.00453847

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 9.79567	90% of values less than 15.97
Minimum 18.4752	Maximum 33.0085	
Mean 5.10323	SD 6.92174	Variance 47.9105

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.100003	90% of values less than 0.162398
Minimum 0.05 less than 0.181689	Maximum 0.261895	
Mean 0.0503558	SD 0.0673682	Variance 0.00453847

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 31.1438	90% of values less than 50.7817
Minimum 0.05 less than 58.7906	Maximum 105.093	
Mean 16.2196	SD 22.0038	Variance 484.168

Boiler House Aromatics - Naphthalene

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00153091	10% of values less than 0.00241208	25% of values less than 0.00457386
50% of values less than 0.0101563	75% of values less than 0.0295953	90% of values less than 0.058205
Minimum 0.0002464611 0.0783261	Maximum 0.164205	
Mean 0.0215753	SD 0.0255628	Variance 0.000653456

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0141641	10% of values less than 0.0202579	25% of values less than 0.0357517
50% of values less than 0.086895	75% of values less than 0.242573	90% of values less than 0.497169
Minimum 0.00227102an 0.663395	Maximum 1.40048	
Mean 0.181601	SD 0.220325	Variance 0.0485429

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0328311	10% of values less than 0.0474129	25% of values less than 0.0990231
50% of values less than 0.201559	75% of values less than 0.330667	90% of values less than 0.47241
Minimum 0.00156106an 0.546867	Maximum 0.97328	
Mean 0.232839	SD 0.166885	Variance 0.0278506

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00200035	10% of values less than 0.00258089	25% of values less than 0.00538174
50% of values less than 0.0102647	75% of values less than 0.0235024	90% of values less than 0.0399636
Minimum 0.000157421	Maximum 0.101661	
Mean 0.016571	SD 0.0158097	Variance 0.000249945

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 8.09791E+007	10% of values less than 8.45438E+007	25% of values less than 9.1701E+007
50% of values less than 1.00412E+008	75% of values less than 1.11808E+008	90% of values less than 1.2164E+008
Minimum 7.29449E+0071.26914E+008	Maximum 1.46549E+008	
Mean 1.02041E+008	SD 1.41371E+007	Variance 1.99857E+014

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 2.56933E+008	10% of values less than 2.6834E+008	25% of values less than 2.91243E+008
50% of values less than 3.19117E+008	75% of values less than 3.55585E+008	90% of values less than 3.87049E+008
Minimum 2.31224E+0084.03924E+008	Maximum 4.66758E+008	
Mean 3.2433E+008	SD 4.52386E+007	Variance 2.04653E+015

Boiler House Aromatics - Naphthalene

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 8.09791E+007	10% of values less than 8.45438E+007	25% of values less than 9.1701E+007
50% of values less than 1.00412E+008	75% of values less than 1.11808E+008	90% of values less than 1.2164E+008
Minimum 7.29449E+0071.26914E+008	Maximum 1.46549E+008	
Mean 1.02041E+008	SD 1.41371E+007	Variance 1.99857E+014

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 2.56933E+008	10% of values less than 2.6834E+008	25% of values less than 2.91243E+008
50% of values less than 3.19117E+008	75% of values less than 3.55585E+008	90% of values less than 3.87049E+008
Minimum 2.31224E+0084.03924E+008	Maximum 4.66758E+008	
Mean 3.2433E+008	SD 4.52386E+007	Variance 2.04653E+015

Boiler House Aromatics - Naphthalene

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 8.09791E+007	10% of values less than 8.45438E+007	25% of values less than 9.1701E+007
50% of values less than 1.00412E+008	75% of values less than 1.11808E+008	90% of values less than 1.2164E+008
Minimum 7.29449E+0071.26914E+008	Maximum 1.46549E+008	
Mean 1.02041E+008	SD 1.41371E+007	Variance 1.99857E+014

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 2.56933E+008	10% of values less than 2.6834E+008	25% of values less than 2.91243E+008
50% of values less than 3.19117E+008	75% of values less than 3.55585E+008	90% of values less than 3.87049E+008
Minimum 2.31224E+0084.03924E+008	Maximum 4.66758E+008	
Mean 3.2433E+008	SD 4.52386E+007	Variance 2.04653E+015

Boiler House Aromatics - Naphthalene

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 8.09791E+007	10% of values less than 8.45438E+007	25% of values less than 9.1701E+007
50% of values less than 1.00412E+008	75% of values less than 1.11808E+008	90% of values less than 1.2164E+008
Minimum 7.29449E+0071.26914E+008	Maximum 1.46549E+008	
Mean 1.02041E+008	SD 1.41371E+007	Variance 1.99857E+014

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 2.56933E+008	10% of values less than 2.6834E+008	25% of values less than 2.91243E+008
50% of values less than 3.19117E+008	75% of values less than 3.55585E+008	90% of values less than 3.87049E+008
Minimum 2.31224E+0084.03924E+008	Maximum 4.66758E+008	
Mean 3.2433E+008	SD 4.52386E+007	Variance 2.04653E+015

Boiler House Aromatics - Naphthalene

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 8.09791E+007	10% of values less than 8.45438E+007	25% of values less than 9.1701E+007
50% of values less than 1.00412E+008	75% of values less than 1.11808E+008	90% of values less than 1.2164E+008
Minimum 7.29449E+0071.26914E+008	Maximum 1.46549E+008	
Mean 1.02041E+008	SD 1.41371E+007	Variance 1.99857E+014

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 2.56933E+008	10% of values less than 2.6834E+008	25% of values less than 2.91243E+008
50% of values less than 3.19117E+008	75% of values less than 3.55585E+008	90% of values less than 3.87049E+008
Minimum 2.31224E+0084.03924E+008	Maximum 4.66758E+008	
Mean 3.2433E+008	SD 4.52386E+007	Variance 2.04653E+015

Boiler House Aromatics - Naphthalene

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 91.7848	10% of values less than 96.0021	25% of values less than 103.976
50% of values less than 115.596	75% of values less than 130.271	90% of values less than 162.577
Minimum 79.5149s than 188.247	Maximum 245.342	
Mean 122.572	SD 28.6321	Variance 819.795

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 91.7848	10% of values less than 96.0021	25% of values less than 103.976
50% of values less than 115.596	75% of values less than 130.271	90% of values less than 162.577
Minimum 79.5149s than 188.247	Maximum 245.342	
Mean 122.572	SD 28.6321	Variance 819.795

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 181.493	10% of values less than 189.927	25% of values less than 205.851
50% of values less than 228.952	75% of values less than 257.763	90% of values less than 322.387
Minimum 156.949s than 373.562	Maximum 487.358	
Mean 242.77	SD 56.9768	Variance 3246.35

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 576.21	10% of values less than 603.196	25% of values less than 653.998
50% of values less than 727.799	75% of values less than 820.279	90% of values less than 1025.55
Minimum 497.66ss than 1189.42	Maximum 1552.23	
Mean 771.644	SD 181.695	Variance 33013.2

Boiler House Aromatics - Naphthalene

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 8.67118E-013	10% of values less than 4.5669E-012	25% of values less than 1.09143E-010
50% of values less than 3.13182E-009	75% of values less than 3.6454E-008	90% of values less than 1.45644E-007
Minimum 1.578E-017an 2.32397E-007	Maximum 1.05232E-006	
Mean 4.5303E-008	SD 1.09062E-007	Variance 1.18946E-014

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 6.70453E-012	10% of values less than 4.10936E-011	25% of values less than 8.95966E-010
50% of values less than 2.10972E-008	75% of values less than 2.4206E-007	90% of values less than 9.70629E-007
Minimum 5.09255E-017 1.85191E-006	Maximum 7.66487E-006	
Mean 3.4757E-007	SD 8.49516E-007	Variance 7.21678E-013

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0.000225939	10% of values less than 0.000382237	25% of values less than 0.000845309
50% of values less than 0.00169876	75% of values less than 0.0032984	90% of values less than 0.00484029
Minimum 1.25675E-005 0.00579201	Maximum 0.00931065	
Mean 0.00224376	SD 0.00178542	Variance 3.18771E-006

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 7.00515E-008
50% of values less than 4.0785E-007	75% of values less than 1.50246E-006	90% of values less than 3.67561E-006
Minimum 0.es less than 5.3599E-006	Maximum 1.97674E-005	
Mean 1.23778E-006	SD 2.0349E-006	Variance 4.14082E-012

Boiler House Aromatics - Naphthalene

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor years

05% of values less than 91.521	10% of values less than 95.7479	25% of values less than 103.718
50% of values less than 115.311	75% of values less than 129.93	90% of values less than 162.162
Minimum 79.2993s than 187.783	Maximum 244.687	
Mean 122.25	SD 28.5604	Variance 815.699

Boiler House Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor years

05% of values less than 91.521	10% of values less than 95.7479	25% of values less than 103.718
50% of values less than 115.311	75% of values less than 129.93	90% of values less than 162.162
Minimum 79.2993s than 187.783	Maximum 244.687	
Mean 122.25	SD 28.5604	Variance 815.699

Boiler House Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor years

05% of values less than 180.971	10% of values less than 189.424	25% of values less than 205.284
50% of values less than 228.38	75% of values less than 257.08	90% of values less than 321.564
Minimum 156.524s than 372.585	Maximum 486.058	
Mean 242.132	SD 56.8342	Variance 3230.12

Boiler House Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor years

05% of values less than 574.554	10% of values less than 601.599	25% of values less than 652.348
50% of values less than 725.99	75% of values less than 818.105	90% of values less than 1022.93
Minimum 496.311s than 1186.05	Maximum 1548.09	
Mean 769.616	SD 181.241	Variance 32848.1

Boiler House Aromatics - Naphthalene

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 3.48079E-013	10% of values less than 1.97874E-012	25% of values less than 4.03265E-011
50% of values less than 1.17636E-009	75% of values less than 1.36891E-008	90% of values less than 5.55414E-008
Minimum 4.457E-018an 9.3847E-008	Maximum 5.22822E-007	
Mean 1.85566E-008	SD 4.68886E-008	Variance 2.19854E-015

Boiler House Aromatics - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 3.13311E-012	10% of values less than 1.71862E-011	25% of values less than 3.08568E-010
50% of values less than 8.57504E-009	75% of values less than 9.32806E-008	90% of values less than 3.81798E-007
Minimum 2.5989E-017n 7.91365E-007	Maximum 4.38364E-006	
Mean 1.45119E-007	SD 3.85191E-007	Variance 1.48372E-013

Boiler House Aromatics - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 7.37273E-005	10% of values less than 0.000139408	25% of values less than 0.000299888
50% of values less than 0.000633899	75% of values less than 0.00125534	90% of values less than 0.00203226
Minimum 6.04386E-006 0.00242959	Maximum 0.00511454	
Mean 0.000893861	SD 0.000788815	Variance 6.22229E-007

Boiler House Aromatics - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 2.60028E-008
50% of values less than 1.51863E-007	75% of values less than 5.69158E-007	90% of values less than 1.38395E-006
Minimum 0.es less than 2.15568E-006	Maximum 7.06801E-006	
Mean 4.89173E-007	SD 8.30446E-007	Variance 6.89641E-013

ETP Aromatics - EC10-EC12 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 2.25805	10% of values less than 2.27845	25% of values less than 2.34736
50% of values less than 2.48605	75% of values less than 2.61545	90% of values less than 2.6958
Minimum 2.2313ss than 2.72695	Maximum 2.76434	
Mean 2.48526	SD 0.151339	Variance 0.0229036

ETP Aromatics - EC12-EC16 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 5.8	10% of values less than 5.8	25% of values less than 5.8
50% of values less than 5.8	75% of values less than 5.8	90% of values less than 5.8
Minimum 5.8s less than 5.8	Maximum 5.8	
Mean 5.8	SD 1.27964E-006	Variance -1.63749E-012

ETP Aromatics - EC16-EC21 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 0.65	10% of values less than 0.65	25% of values less than 0.65
50% of values less than 0.65	75% of values less than 0.65	90% of values less than 0.65
Minimum 0.65 less than 0.65	Maximum 0.65	
Mean 0.65	SD 1.58678E-007	Variance 2.51787E-014

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.00193192	
Mean 7.12552E-006	SD 9.66288E-005	Variance 9.33712E-009

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0000000000000000	Maximum 0.0987321	
Mean 0.000355818	SD 0.00476664	Variance 2.27208E-005

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.00193192	
Mean 7.12552E-006	SD 9.66288E-005	Variance 9.33712E-009

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.195532	
Mean 0.00070451	SD 0.00943735	Variance 8.90637E-005

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.00193192	Maximum 0.00193192	
Mean 7.12552E-006	SD 9.66288E-005	Variance 9.33712E-009

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.00223876	Maximum 0.621453	
Mean 0.00223876	SD 0.0299885	Variance 0.000899312

ETP Aromatics - EC10-EC12 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 2.2221	10% of values less than 2.24336	25% of values less than 2.31613
50% of values less than 2.44529	75% of values less than 2.57747	90% of values less than 2.65231
Minimum 2.17669s than 2.68294	Maximum 2.73135	
Mean 2.44547	SD 0.148925	Variance 0.0221787

ETP Aromatics - EC12-EC16 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 5.76488	10% of values less than 5.76834	25% of values less than 5.7727
50% of values less than 5.77709	75% of values less than 5.78008	90% of values less than 5.78232
Minimum 5.75206s than 5.78358	Maximum 5.78542	
Mean 5.77598	SD 0.00565089	Variance 3.19325E-005

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC16-EC21 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 0.639609	10% of values less than 0.641109	25% of values less than 0.642711
50% of values less than 0.64396	75% of values less than 0.644899	90% of values less than 0.645519
Minimum 0.634231 than 0.645748	Maximum 0.646363	
Mean 0.643543	SD 0.00192313	Variance 3.69843E-006

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC10-EC12 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0567374	10% of values less than 0.0589348	25% of values less than 0.0632783
50% of values less than 0.0691069	75% of values less than 0.0788821	90% of values less than 0.106213
Minimum 0.05144111	Maximum 0.163634	
Mean 0.0751264	SD 0.0191768	Variance 0.000367748

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC12-EC16 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.138293	10% of values less than 0.14217	25% of values less than 0.15054
50% of values less than 0.161866	75% of values less than 0.184111	90% of values less than 0.242277
Minimum 0.132454 than 0.283152	Maximum 0.349972	
Mean 0.177304	SD 0.0430536	Variance 0.00185361

ETP Aromatics - EC16-EC21 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0153949	10% of values less than 0.0158547	25% of values less than 0.0167638
50% of values less than 0.018034	75% of values less than 0.0205185	90% of values less than 0.0270105
Minimum 0.01472071an 0.0316168	Maximum 0.0390213	
Mean 0.0197551	SD 0.00479975	Variance 2.30376E-005

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.439713	10% of values less than 0.467159	25% of values less than 0.522982
50% of values less than 0.609648	75% of values less than 0.696932	90% of values less than 0.826109
Minimum 0.391217 than 0.908155	Maximum 1.18182	
Mean 0.627958	SD 0.141073	Variance 0.0199016

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 21.3588	10% of values less than 23.0351	25% of values less than 25.9473
50% of values less than 30.7226	75% of values less than 36.0103	90% of values less than 44.6622
Minimum 17.0727s than 53.1993	Maximum 77.5266	
Mean 32.4695	SD 9.46138	Variance 89.5178

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.439713	10% of values less than 0.467159	25% of values less than 0.522982
50% of values less than 0.609648	75% of values less than 0.696932	90% of values less than 0.826109
Minimum 0.391217 than 0.908155	Maximum 1.18182	
Mean 0.627958	SD 0.141073	Variance 0.0199016

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 42.2134	10% of values less than 45.5554	25% of values less than 51.3248
50% of values less than 60.6584	75% of values less than 71.4307	90% of values less than 88.555
Minimum 33.7253s than 105.501	Maximum 153.925	
Mean 64.311	SD 18.8025	Variance 353.535

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.439713	10% of values less than 0.467159	25% of values less than 0.522982
50% of values less than 0.609648	75% of values less than 0.696932	90% of values less than 0.826109
Minimum 0.391217 than 0.908155	Maximum 1.18182	
Mean 0.627958	SD 0.141073	Variance 0.0199016

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 133.974	10% of values less than 144.524	25% of values less than 162.974
50% of values less than 192.726	75% of values less than 227.123	90% of values less than 281.683
Minimum 106.997s than 335.627	Maximum 490.077	
Mean 204.414	SD 59.9041	Variance 3588.5

ETP Aromatics - EC10-EC12 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 3.90501E-006	10% of values less than 7.12347E-006	25% of values less than 2.22028E-005
50% of values less than 6.56144E-005	75% of values less than 0.000147143	90% of values less than 0.00026047
Minimum 1.71715E-007 0.000340723	Maximum 0.000818963	
Mean 0.000105143	SD 0.000120735	Variance 1.45771E-008

ETP Aromatics - EC12-EC16 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00346672	10% of values less than 0.004057	25% of values less than 0.00545208
50% of values less than 0.00736553	75% of values less than 0.00994578	90% of values less than 0.0125258
Minimum 0.00150693an 0.0139996	Maximum 0.0207238	
Mean 0.00788705	SD 0.00330701	Variance 1.09363E-005

ETP Aromatics - EC16-EC21 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 2.40485E-005	10% of values less than 3.50452E-005	25% of values less than 6.08745E-005
50% of values less than 0.000108754	75% of values less than 0.000173281	90% of values less than 0.000267871
Minimum 5.98829E-006 0.000319073	Maximum 0.000619477	
Mean 0.000131191	SD 9.55768E-005	Variance 9.13492E-009

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0164711	90% of values less than 0.0612411
Minimum 0.es less than 0.0794202	Maximum 0.14894	
Mean 0.014434	SD 0.0277025	Variance 0.000767429

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.785485	90% of values less than 3.11432
Minimum 0.es less than 4.05244	Maximum 8.55024	
Mean 0.748466	SD 1.48076	Variance 2.19266

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0164711	90% of values less than 0.0612411
Minimum 0.0794202	Maximum 0.14894	
Mean 0.014434	SD 0.0277025	Variance 0.000767429

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.55281	90% of values less than 6.16157
Minimum 0.03972	Maximum 16.978	
Mean 1.4825	SD 2.93418	Variance 8.60942

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0164711	90% of values less than 0.0612411
Minimum 0.es less than 0.0794202	Maximum 0.14894	
Mean 0.014434	SD 0.0277025	Variance 0.000767429

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.92907	90% of values less than 19.5694
Minimum 0.es less than 25.5838	Maximum 54.0614	
Mean 4.71224	SD 9.32923	Variance 87.0345

ETP Aromatics - EC10-EC12 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00236365	10% of values less than 0.00303837	25% of values less than 0.0047042
50% of values less than 0.00810254	75% of values less than 0.0162575	90% of values less than 0.0276729
Minimum 0.0008686521 0.0376868	Maximum 0.0941321	
Mean 0.0123059	SD 0.0115818	Variance 0.000134138

ETP Aromatics - EC12-EC16 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0205287	10% of values less than 0.0242704	25% of values less than 0.0342644
50% of values less than 0.0517871	75% of values less than 0.0741731	90% of values less than 0.107775
Minimum 0.00397883an 0.120757	Maximum 0.249642	
Mean 0.0588412	SD 0.0334523	Variance 0.00111905

ETP Aromatics - EC16-EC21 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00130704	10% of values less than 0.00150716	25% of values less than 0.00214848
50% of values less than 0.00330171	75% of values less than 0.0058215	90% of values less than 0.00898276
Minimum 0.0003989581 0.0111052	Maximum 0.0240435	
Mean 0.00444774	SD 0.00329684	Variance 1.08692E-005

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 836164	SD 370312	Variance 1.37131E+011

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 4.2753E+007
50% of values less than 4.90173E+007	75% of values less than 5.50257E+007	90% of values less than 6.06845E+007
Minimum 0.es less than 6.34244E+007	Maximum 7.37747E+007	
Mean 4.30692E+007	SD 2.01649E+007	Variance 4.06625E+014

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 836164	SD 370312	Variance 1.37131E+011

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 8.45059E+007
50% of values less than 9.70346E+007	75% of values less than 1.09051E+008	90% of values less than 1.20369E+008
Minimum 0.es less than 1.25849E+008	Maximum 1.46549E+008	
Mean 8.53022E+007	SD 3.99798E+007	Variance 1.59838E+015

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 836164	SD 370312	Variance 1.37131E+011

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 2.68219E+008
50% of values less than 3.08311E+008	75% of values less than 3.46765E+008	90% of values less than 3.82981E+008
Minimum 0.es less than 4.00516E+008	Maximum 4.66758E+008	
Mean 2.71127E+008	SD 1.27166E+008	Variance 1.61711E+016

ETP Aromatics - EC10-EC12 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 1.10002E-012	
Mean 2.31412E-015	SD 4.49658E-014	Variance 2.02193E-027

ETP Aromatics - EC12-EC16 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 3.15423E-012	
Mean 7.12355E-015	SD 1.38992E-013	Variance 1.93187E-026

ETP Aromatics - EC16-EC21 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 3.21659E-013	
Mean 6.98617E-016	SD 1.36686E-014	Variance 1.86831E-028

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 898102	SD 302665	Variance 9.16064E+010

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 4.42955E+007
50% of values less than 4.97078E+007	75% of values less than 5.5496E+007	90% of values less than 6.07767E+007
Minimum 0.es less than 6.34356E+007	Maximum 7.37747E+007	
Mean 4.62149E+007	SD 1.69648E+007	Variance 2.87805E+014

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 898102	SD 302665	Variance 9.16064E+010

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 8.75911E+007
50% of values less than 9.84155E+007	75% of values less than 1.09992E+008	90% of values less than 1.20553E+008
Minimum 0.es less than 1.25871E+008	Maximum 1.46549E+008	
Mean 9.15316E+007	SD 3.3652E+007	Variance 1.13246E+015

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 898102	SD 302665	Variance 9.16064E+010

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 2.78091E+008
50% of values less than 3.1273E+008	75% of values less than 3.49775E+008	90% of values less than 3.83571E+008
Minimum 0.es less than 4.00588E+008	Maximum 4.66758E+008	
Mean 2.90925E+008	SD 1.07076E+008	Variance 1.14653E+016

ETP Aromatics - EC10-EC12 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 3.09056E-013	
Mean 5.29645E-016	SD 1.16839E-014	Variance 1.36513E-028

ETP Aromatics - EC12-EC16 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 8.18744E-013	
Mean 1.48292E-015	SD 3.24246E-014	Variance 1.05136E-027

ETP Aromatics - EC16-EC21 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 8.62454E-014	
Mean 1.52677E-016	SD 3.35124E-015	Variance 1.12308E-029

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 894106	SD 307856	Variance 9.47752E+010

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 4.42178E+007
50% of values less than 4.96033E+007	75% of values less than 5.53973E+007	90% of values less than 6.07543E+007
Minimum 0.es less than 6.34244E+007	Maximum 7.37747E+007	
Mean 4.60034E+007	SD 1.71977E+007	Variance 2.95759E+014

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 894106	SD 307856	Variance 9.47752E+010

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 8.74356E+007
50% of values less than 9.82066E+007	75% of values less than 1.09795E+008	90% of values less than 1.20509E+008
Minimum 0.es less than 1.25849E+008	Maximum 1.46549E+008	
Mean 9.11127E+007	SD 3.4112E+007	Variance 1.16363E+015

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 894106	SD 307856	Variance 9.47752E+010

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 2.77594E+008
50% of values less than 3.12061E+008	75% of values less than 3.49143E+008	90% of values less than 3.83427E+008
Minimum 0.es less than 4.00516E+008	Maximum 4.66758E+008	
Mean 2.89594E+008	SD 1.08536E+008	Variance 1.178E+016

ETP Aromatics - EC10-EC12 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP Aromatics - EC12-EC16 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP Aromatics - EC16-EC21 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 744256	SD 436497	Variance 1.90529E+011

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 4.77739E+007	75% of values less than 5.40718E+007	90% of values less than 6.01565E+007
Minimum 0.es less than 6.33189E+007	Maximum 7.37747E+007	
Mean 3.8402E+007	SD 2.33522E+007	Variance 5.45326E+014

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 744256	SD 436497	Variance 1.90529E+011

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 9.45477E+007	75% of values less than 1.07144E+008	90% of values less than 1.19313E+008
Minimum 0.es less than 1.25638E+008	Maximum 1.46549E+008	
Mean 7.60598E+007	SD 4.62836E+007	Variance 2.14217E+015

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 744256	SD 436497	Variance 1.90529E+011

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 3.00353E+008	75% of values less than 3.4066E+008	90% of values less than 3.79601E+008
Minimum 0.es less than 3.99841E+008	Maximum 4.66758E+008	
Mean 2.41754E+008	SD 1.47182E+008	Variance 2.16626E+016

ETP Aromatics - EC10-EC12 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP Aromatics - EC12-EC16 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

ETP Aromatics - EC16-EC21 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.68597	10% of values less than 2.71436	25% of values less than 2.80485
50% of values less than 2.95362	75% of values less than 3.47725	90% of values less than 4.01328
Minimum 2.563ess than 4.29938	Maximum 5.01182	
Mean 3.1856	SD 0.525543	Variance 0.276196

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 124.478	10% of values less than 129.359	25% of values less than 138.503
50% of values less than 153.345	75% of values less than 172.949	90% of values less than 225.967
Minimum 110.996s than 262.192	Maximum 346.718	
Mean 164.764	SD 40.9628	Variance 1677.95

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.68597	10% of values less than 2.71436	25% of values less than 2.80485
50% of values less than 2.95362	75% of values less than 3.47725	90% of values less than 4.01328
Minimum 2.563ess than 4.29938	Maximum 5.01182	
Mean 3.1856	SD 0.525543	Variance 0.276196

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 246.222	10% of values less than 255.782	25% of values less than 274.075
50% of values less than 303.787	75% of values less than 342.394	90% of values less than 447.749
Minimum 219.261s than 520.427	Maximum 688.736	
Mean 326.342	SD 81.5052	Variance 6643.1

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.68597	10% of values less than 2.71436	25% of values less than 2.80485
50% of values less than 2.95362	75% of values less than 3.47725	90% of values less than 4.01328
Minimum 2.563ess than 4.29938	Maximum 5.01182	
Mean 3.1856	SD 0.525543	Variance 0.276196

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 781.895	10% of values less than 812.495	25% of values less than 870.653
50% of values less than 965.577	75% of values less than 1088.58	90% of values less than 1423.15
Minimum 695.627s than 1656.66	Maximum 2193.62	
Mean 1037.29	SD 259.894	Variance 67545

ETP Aromatics - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 3.76878E-016	10% of values less than 2.01251E-015	25% of values less than 1.14444E-013
50% of values less than 6.64148E-012	75% of values less than 1.62526E-010	90% of values less than 9.16658E-010
Minimum 1.60017E-021 1.75378E-009	Maximum 1.06697E-008	
Mean 3.45551E-010	SD 1.04068E-009	Variance 1.08301E-018

ETP Aromatics - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 3.43554E-006	10% of values less than 8.35674E-006	25% of values less than 2.46699E-005
50% of values less than 6.13758E-005	75% of values less than 0.000127405	90% of values less than 0.000221798
Minimum 1.63054E-007 0.000267249	Maximum 0.000589894	
Mean 9.06517E-005	SD 8.83064E-005	Variance 7.79802E-009

ETP Aromatics - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 5.94757E-010	75% of values less than 1.14471E-008	90% of values less than 3.83264E-008
Minimum 0.es less than 6.31278E-008	Maximum 2.7353E-007	
Mean 1.22425E-008	SD 2.67387E-008	Variance 7.1496E-016

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

ETP Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.68011	10% of values less than 2.70848	25% of values less than 2.79899
50% of values less than 2.94766	75% of values less than 3.46994	90% of values less than 4.00482
Minimum 2.5573ss than 4.29032	Maximum 5.00177	
Mean 3.17889	SD 0.524478	Variance 0.275077

Retarded Travel Time to DCE Receptor years

05% of values less than 124.202	10% of values less than 129.09	25% of values less than 138.213
50% of values less than 153.012	75% of values less than 172.569	90% of values less than 225.509
Minimum 110.75ss than 261.632	Maximum 345.998	
Mean 164.417	SD 40.8778	Variance 1670.99

ETP Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.68011	10% of values less than 2.70848	25% of values less than 2.79899
50% of values less than 2.94766	75% of values less than 3.46994	90% of values less than 4.00482
Minimum 2.5573ss than 4.29032	Maximum 5.00177	
Mean 3.17889	SD 0.524478	Variance 0.275077

Retarded Travel Time to DCE Receptor years

05% of values less than 245.676	10% of values less than 255.249	25% of values less than 273.488
50% of values less than 303.168	75% of values less than 341.694	90% of values less than 446.784
Minimum 218.774s than 519.316	Maximum 687.306	
Mean 325.655	SD 81.3361	Variance 6615.55

ETP Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.68011	10% of values less than 2.70848	25% of values less than 2.79899
50% of values less than 2.94766	75% of values less than 3.46994	90% of values less than 4.00482
Minimum 2.5573ss than 4.29032	Maximum 5.00177	
Mean 3.17889	SD 0.524478	Variance 0.275077

Retarded Travel Time to DCE Receptor years

05% of values less than 780.161	10% of values less than 810.712	25% of values less than 868.743
50% of values less than 963.598	75% of values less than 1086.26	90% of values less than 1420.08
Minimum 694.083s than 1653.13	Maximum 2189.06	
Mean 1035.1	SD 259.355	Variance 67264.9

ETP Aromatics - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.34348E-016	10% of values less than 8.50086E-016	25% of values less than 4.60665E-014
50% of values less than 2.60032E-012	75% of values less than 6.38885E-011	90% of values less than 3.79121E-010
Minimum 6.82927E-022 6.92573E-010	Maximum 4.06627E-009	
Mean 1.35877E-010	SD 4.14493E-010	Variance 1.71805E-019

ETP Aromatics - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.24049E-006	10% of values less than 3.10503E-006	25% of values less than 9.36009E-006
50% of values less than 2.29714E-005	75% of values less than 4.81293E-005	90% of values less than 8.34329E-005
Minimum 6.76619E-008 0.000107469	Maximum 0.000259701	
Mean 3.50815E-005	SD 3.56996E-005	Variance 1.27446E-009

ETP Aromatics - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.22827E-010	75% of values less than 4.37408E-009	90% of values less than 1.42318E-008
Minimum 0.es less than 2.64254E-008	Maximum 1.08017E-007	
Mean 4.78762E-009	SD 1.07125E-008	Variance 1.14758E-016

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 1.72354	10% of values less than 1.74524	25% of values less than 1.79601
50% of values less than 1.88645	75% of values less than 1.99169	90% of values less than 2.05426
Minimum 1.70109s than 2.07541	Maximum 2.09941	
Mean 1.89235	SD 0.111523	Variance 0.0124373

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 3.51237	10% of values less than 3.55274	25% of values less than 3.66218
50% of values less than 3.84844	75% of values less than 4.06599	90% of values less than 4.19098
Minimum 3.47226s than 4.24165	Maximum 4.2875	
Mean 3.86108	SD 0.231707	Variance 0.0536881

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at Source [mg/l] - 1000 years

05% of values less than 0.65	10% of values less than 0.65	25% of values less than 0.65
50% of values less than 0.65	75% of values less than 0.65	90% of values less than 0.65
Minimum 0.65 less than 0.65	Maximum 0.65	
Mean 0.65	SD 1.58678E-007	Variance 2.51787E-014

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0019993	Maximum 0.0019993	
Mean 7.59215E-006	SD 0.000100061	Variance 1.00121E-008

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0003853	Maximum 0.0972947	
Mean 0.0003853	SD 0.00500996	Variance 2.50997E-005

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0019993	Maximum 0.0019993	
Mean 7.59215E-006	SD 0.000100061	Variance 1.00121E-008

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000763009	Maximum 0.19259	
Mean 0.000763009	SD 0.00992096	Variance 9.84255E-005

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.0019993	Maximum 0.0019993	
Mean 7.59215E-006	SD 0.000100061	Variance 1.00121E-008

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.001189	Maximum 0.61189	
Mean 0.00242492	SD 0.0315294	Variance 0.000994104

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 1.69622	10% of values less than 1.7144	25% of values less than 1.7684
50% of values less than 1.85666	75% of values less than 1.95795	90% of values less than 2.02007
Minimum 1.64931s than 2.04323	Maximum 2.07887	
Mean 1.86164	SD 0.111173	Variance 0.0123594

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 3.49808	10% of values less than 3.5389	25% of values less than 3.64794
50% of values less than 3.83462	75% of values less than 4.04683	90% of values less than 4.1732
Minimum 3.45215s than 4.22392	Maximum 4.27265	
Mean 3.84494	SD 0.230842	Variance 0.0532879

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 0.639292	10% of values less than 0.640546	25% of values less than 0.642522
50% of values less than 0.643885	75% of values less than 0.644927	90% of values less than 0.645528
Minimum 0.631947 than 0.645738	Maximum 0.646478	
Mean 0.643406	SD 0.00208873	Variance 4.36278E-006

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC10-EC12 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0426921	10% of values less than 0.0440681	25% of values less than 0.0468492
50% of values less than 0.0516812	75% of values less than 0.0591215	90% of values less than 0.0782337
Minimum 0.03734181an 0.0882478	Maximum 0.114609	
Mean 0.0558915	SD 0.013757	Variance 0.000189256

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC12-EC16 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0880811	10% of values less than 0.0911341	25% of values less than 0.0967176
50% of values less than 0.106917	75% of values less than 0.122163	90% of values less than 0.161954
Minimum 0.07860631	Maximum 0.23545	
Mean 0.115423	SD 0.0283482	Variance 0.000803618

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0151218	10% of values less than 0.0155619	25% of values less than 0.0164433
50% of values less than 0.0176755	75% of values less than 0.0202103	90% of values less than 0.0265987
Minimum 0.01446161an 0.0307742	Maximum 0.0373067	
Mean 0.019315	SD 0.00459966	Variance 2.11569E-005

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.712937	10% of values less than 0.733921	25% of values less than 0.802057
50% of values less than 0.884196	75% of values less than 0.994245	90% of values less than 1.1768
Minimum 0.660987 than 1.28996	Maximum 1.55485	
Mean 0.921481	SD 0.170279	Variance 0.0289949

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 34.4379	10% of values less than 35.9512	25% of values less than 39.5819
50% of values less than 44.1338	75% of values less than 51.5392	90% of values less than 64.1805
Minimum 29.5508s than 76.3842	Maximum 104.192	
Mean 47.668	SD 12.5524	Variance 157.563

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.712937	10% of values less than 0.733921	25% of values less than 0.802057
50% of values less than 0.884196	75% of values less than 0.994245	90% of values less than 1.1768
Minimum 0.660987 than 1.28996	Maximum 1.55485	
Mean 0.921481	SD 0.170279	Variance 0.0289949

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 68.0754	10% of values less than 71.1604	25% of values less than 78.3861
50% of values less than 87.3728	75% of values less than 102.174	90% of values less than 127.229
Minimum 58.4152s than 151.616	Maximum 206.933	
Mean 94.4144	SD 24.965	Variance 623.253

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.712937	10% of values less than 0.733921	25% of values less than 0.802057
50% of values less than 0.884196	75% of values less than 0.994245	90% of values less than 1.1768
Minimum 0.660987 than 1.28996	Maximum 1.55485	
Mean 0.921481	SD 0.170279	Variance 0.0289949

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 216.08	10% of values less than 225.953	25% of values less than 249.107
50% of values less than 277.794	75% of values less than 324.686	90% of values less than 404.642
Minimum 185.402s than 482.634	Maximum 658.991	
Mean 300.099	SD 79.5813	Variance 6333.18

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 4.67961E-007	10% of values less than 1.10314E-006	25% of values less than 4.333E-006
50% of values less than 1.95876E-005	75% of values less than 5.65269E-005	90% of values less than 0.000114995
Minimum 7.75909E-009 0.000153429	Maximum 0.000403526	
Mean 4.0936E-005	SD 5.33822E-005	Variance 2.84966E-009

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00281409	10% of values less than 0.00352654	25% of values less than 0.00491255
50% of values less than 0.00694328	75% of values less than 0.00952332	90% of values less than 0.0116733
Minimum 0.0008624551 0.0130426	Maximum 0.0195287	
Mean 0.00733791	SD 0.00318342	Variance 1.01341E-005

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 1.28985E-005	10% of values less than 1.84483E-005	25% of values less than 3.80129E-005
50% of values less than 8.03274E-005	75% of values less than 0.000137808	90% of values less than 0.000211718
Minimum 7.57853E-007 0.000260709	Maximum 0.000517923	
Mean 0.000100123	SD 8.10983E-005	Variance 6.57693E-009

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0881976	10% of values less than 0.10471	25% of values less than 0.150777
50% of values less than 0.221939	75% of values less than 0.295369	90% of values less than 0.349406
Minimum 0.062786	Maximum 0.399577	
Mean 0.228436	SD 0.0963964	Variance 0.00929227

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 4.35516	10% of values less than 5.3595	25% of values less than 7.49979
50% of values less than 11.2735	75% of values less than 15.0525	90% of values less than 18.457
Minimum 2.90298	Maximum 21.4989	
Mean 11.8188	SD 5.49732	Variance 30.2205

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0881976	10% of values less than 0.10471	25% of values less than 0.150777
50% of values less than 0.221939	75% of values less than 0.295369	90% of values less than 0.349406
Minimum 0.062786 than 0.399577	Maximum 0.54457	
Mean 0.228436	SD 0.0963964	Variance 0.00929227

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 8.62738	10% of values less than 10.5789	25% of values less than 14.8557
50% of values less than 22.3312	75% of values less than 29.8191	90% of values less than 36.5752
Minimum 5.73388s than 42.6658	Maximum 69.4798	
Mean 23.4092	SD 10.9044	Variance 118.905

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0881976	10% of values less than 0.10471	25% of values less than 0.150777
50% of values less than 0.221939	75% of values less than 0.295369	90% of values less than 0.349406
Minimum 0.062786 than 0.399577	Maximum 0.54457	
Mean 0.228436	SD 0.0963964	Variance 0.00929227

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 27.4252	10% of values less than 33.5443	25% of values less than 47.2294
50% of values less than 70.9631	75% of values less than 94.691	90% of values less than 116.087
Minimum 18.1898s than 135.8	Maximum 221.137	
Mean 74.4068	SD 34.6956	Variance 1203.78

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000118296	10% of values less than 0.000190917	25% of values less than 0.000414256
50% of values less than 0.000899553	75% of values less than 0.00196397	90% of values less than 0.00345724
Minimum 1.51251E-005 0.00471247	Maximum 0.0110285	
Mean 0.00144448	SD 0.00148537	Variance 2.20634E-006

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00416416	10% of values less than 0.00535583	25% of values less than 0.010161
50% of values less than 0.0200915	75% of values less than 0.0298847	90% of values less than 0.0393704
Minimum 0.00192589an 0.0453142	Maximum 0.0649781	
Mean 0.0213146	SD 0.0130478	Variance 0.000170245

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000201939	10% of values less than 0.000285589	25% of values less than 0.00050294
50% of values less than 0.000973374	75% of values less than 0.00168518	90% of values less than 0.00249879
Minimum 6.10121E-005 0.00306622	Maximum 0.00515675	
Mean 0.00120922	SD 0.000909392	Variance 8.26994E-007

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.167	90% of values less than 2.43378
Minimum 0.1324	Maximum 6.56543	
Mean 0.521435	SD 1.09923	Variance 1.2083

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.330474	90% of values less than 4.81794
Minimum 0.20354	Maximum 13.0287	
Mean 1.03267	SD 2.17748	Variance 4.74143

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.04976	90% of values less than 15.3082
Minimum 0.19.7165	Maximum 41.4673	
Mean 3.28211	SD 6.92182	Variance 47.9116

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000291566	10% of values less than 0.000539271	25% of values less than 0.00186096
50% of values less than 0.00611301	75% of values less than 0.0155889	90% of values less than 0.0285387
Minimum 2.54382E-007 0.0339169	Maximum 0.0684861	
Mean 0.0105762	SD 0.0118404	Variance 0.000140196

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00154528	10% of values less than 0.00316123	25% of values less than 0.0110437
50% of values less than 0.0394389	75% of values less than 0.0670756	90% of values less than 0.0898571
Minimum 6.01331E-007 0.104334	Maximum 0.191167	
Mean 0.0430519	SD 0.0351596	Variance 0.0012362

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000183191	10% of values less than 0.000313905	25% of values less than 0.00103877
50% of values less than 0.00366727	75% of values less than 0.0075957	90% of values less than 0.0119046
Minimum 9.98672E-008 0.014012	Maximum 0.0300413	
Mean 0.00499446	SD 0.00474019	Variance 2.24694E-005

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.3379
Minimum 0.01624	Maximum 4.49242	
Mean 0.270328	SD 0.698052	Variance 0.487276

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 2.64853
Minimum 0.399693	Maximum 8.91496	
Mean 0.535361	SD 1.3827	Variance 1.91185

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 8.41528
Minimum 0.127167	Maximum 28.3741	
Mean 1.70151	SD 4.39515	Variance 19.3173

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.00106073	10% of values less than 0.00170062	25% of values less than 0.00433812
50% of values less than 0.0105707	75% of values less than 0.0220232	90% of values less than 0.0363946
Minimum 2.75965E-007 0.0422945	Maximum 0.0888703	
Mean 0.0153145	SD 0.0144425	Variance 0.000208587

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.00609047	10% of values less than 0.00955067	25% of values less than 0.0263789
50% of values less than 0.0560572	75% of values less than 0.0826067	90% of values less than 0.101016
Minimum 6.0805E-007n 0.116742	Maximum 0.204566	
Mean 0.0566565	SD 0.0363804	Variance 0.00132353

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000646316	10% of values less than 0.000978064	25% of values less than 0.00273388
50% of values less than 0.00563936	75% of values less than 0.0101749	90% of values less than 0.0142777
Minimum 1.03928E-007 0.016691	Maximum 0.034392	
Mean 0.00690345	SD 0.00536449	Variance 2.87778E-005

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.es less than 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.41428
Minimum 0.es less than 2.09765	Maximum 4.63689	
Mean 0.285259	SD 0.72428	Variance 0.524582

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.es less than 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 2.79972
Minimum 0.es less than 4.16052	Maximum 9.20165	
Mean 0.564933	SD 1.43466	Variance 2.05825

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.es less than 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 8.89566
Minimum 0.es less than 13.2371	Maximum 29.2866	
Mean 1.7955	SD 4.56033	Variance 20.7966

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

25% of values less than 0.000102655

90% of values less than 0.0188138

Maximum 0.0872262

Variance 0.00010264

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 9.59259E-007	10% of values less than 3.01971E-005	25% of values less than 0.000552412
50% of values less than 0.00918731	75% of values less than 0.036739	90% of values less than 0.0681844
Minimum 0.es less than 0.0832157	Maximum 0.203558	
Mean 0.0226755	SD 0.0292622	Variance 0.000856275

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 1.38008E-007	10% of values less than 4.00661E-006	25% of values less than 5.4594E-005
50% of values less than 0.00096073	75% of values less than 0.00380903	90% of values less than 0.00877954
Minimum 0.es less than 0.0112701	Maximum 0.0340618	
Mean 0.00276073	SD 0.00402397	Variance 1.61924E-005

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.es less than 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.41337	90% of values less than 3.77145
Minimum 0.es less than 4.53121	Maximum 9.01453	
Mean 0.920754	SD 1.62305	Variance 2.63429

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.es less than 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 2.79295	90% of values less than 7.46596
Minimum 0.es less than 8.97891	Maximum 17.8888	
Mean 1.82356	SD 3.21533	Variance 10.3383

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.es less than 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 8.86315	90% of values less than 23.7218
Minimum 0.es less than 28.5488	Maximum 56.9358	
Mean 5.79592	SD 10.2214	Variance 104.476

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 4.34586E-017	75% of values less than 3.26628E-013	90% of values less than 5.35047E-011
Minimum 0.es less than 5.02282E-010	Maximum 3.01031E-008	
Mean 2.50553E-010	SD 1.71821E-009	Variance 2.95224E-018

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.49988E-016	75% of values less than 2.26338E-012	90% of values less than 4.72616E-010
Minimum 0.es less than 4.59931E-009	Maximum 2.20706E-007	
Mean 2.21314E-009	SD 1.49996E-008	Variance 2.24988E-016

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.63225E-017	75% of values less than 2.28784E-013	90% of values less than 4.07954E-011
Minimum 0.es less than 4.11073E-010	Maximum 1.56609E-008	
Mean 1.61707E-010	SD 1.07441E-009	Variance 1.15436E-018

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.94073	10% of values less than 3.00257	25% of values less than 3.08205
50% of values less than 3.22006	75% of values less than 3.78604	90% of values less than 4.39132
Minimum 2.85123s than 4.7108	Maximum 5.37691	
Mean 3.48054	SD 0.565202	Variance 0.319453

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 136.971	10% of values less than 142.283	25% of values less than 151.249
50% of values less than 167.481	75% of values less than 188.426	90% of values less than 246.348
Minimum 123.215s than 286.563	Maximum 377.99	
Mean 180.04	SD 44.5959	Variance 1988.8

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.94073	10% of values less than 3.00257	25% of values less than 3.08205
50% of values less than 3.22006	75% of values less than 3.78604	90% of values less than 4.39132
Minimum 2.85123s than 4.7108	Maximum 5.37691	
Mean 3.48054	SD 0.565202	Variance 0.319453

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 270.84	10% of values less than 281.557	25% of values less than 299.404
50% of values less than 331.523	75% of values less than 373.481	90% of values less than 488.409
Minimum 243.207s than 568.7	Maximum 750.714	
Mean 356.6	SD 88.7402	Variance 7874.82

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 2.94073	10% of values less than 3.00257	25% of values less than 3.08205
50% of values less than 3.22006	75% of values less than 3.78604	90% of values less than 4.39132
Minimum 2.85123s than 4.7108	Maximum 5.37691	
Mean 3.48054	SD 0.565202	Variance 0.319453

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 859.864	10% of values less than 894.079	25% of values less than 951.461
50% of values less than 1053.67	75% of values less than 1187.82	90% of values less than 1553.48
Minimum 771.169s than 1810.1	Maximum 2390.7	
Mean 1133.46	SD 282.977	Variance 80076.1

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.64306E-017	10% of values less than 3.2735E-016	25% of values less than 1.89773E-014
50% of values less than 1.69705E-012	75% of values less than 5.64409E-011	90% of values less than 3.60763E-010
Minimum 4.67673E-023 7.39624E-010	Maximum 3.72881E-009	
Mean 1.38041E-010	SD 4.17159E-010	Variance 1.74022E-019

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 2.13818E-006	10% of values less than 4.92951E-006	25% of values less than 1.76839E-005
50% of values less than 5.00325E-005	75% of values less than 0.000115731	90% of values less than 0.000189682
Minimum 7.90061E-008 0.000234401	Maximum 0.000462777	
Mean 7.71717E-005	SD 7.85804E-005	Variance 6.17488E-009

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 3.08157E-009	90% of values less than 2.69946E-008
Minimum 0.es less than 4.63724E-008	Maximum 2.29518E-007	
Mean 7.90131E-009	SD 2.09202E-008	Variance 4.37656E-016

Tank Farm Aromatics - EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.93505	10% of values less than 2.99666	25% of values less than 3.07589
50% of values less than 3.21371	75% of values less than 3.77843	90% of values less than 4.38249
Minimum 2.84549s than 4.70145	Maximum 5.36685	
Mean 3.47382	SD 0.56413	Variance 0.318243

Retarded Travel Time to DCE Receptor years

05% of values less than 136.717	10% of values less than 141.997	25% of values less than 150.949
50% of values less than 167.15	75% of values less than 188.075	90% of values less than 245.86
Minimum 122.983s than 286.016	Maximum 377.271	
Mean 179.693	SD 44.5106	Variance 1981.19

Tank Farm Aromatics - EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.93505	10% of values less than 2.99666	25% of values less than 3.07589
50% of values less than 3.21371	75% of values less than 3.77843	90% of values less than 4.38249
Minimum 2.84549s than 4.70145	Maximum 5.36685	
Mean 3.47382	SD 0.56413	Variance 0.318243

Retarded Travel Time to DCE Receptor years

05% of values less than 270.338	10% of values less than 280.994	25% of values less than 298.831
50% of values less than 330.909	75% of values less than 372.763	90% of values less than 487.442
Minimum 242.748s than 567.614	Maximum 749.287	
Mean 355.912	SD 88.5703	Variance 7844.7

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Tank Farm Aromatics - EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 2.93505	10% of values less than 2.99666	25% of values less than 3.07589
50% of values less than 3.21371	75% of values less than 3.77843	90% of values less than 4.38249
Minimum 2.84549s than 4.70145	Maximum 5.36685	
Mean 3.47382	SD 0.56413	Variance 0.318243

Retarded Travel Time to DCE Receptor years

05% of values less than 858.272	10% of values less than 892.289	25% of values less than 949.641
50% of values less than 1051.72	75% of values less than 1185.53	90% of values less than 1550.4
Minimum 769.713s than 1806.65	Maximum 2386.16	
Mean 1131.28	SD 282.436	Variance 79769.8

Tank Farm Aromatics - EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.89239E-017	10% of values less than 3.2922E-016	25% of values less than 1.69718E-014
50% of values less than 1.67363E-012	75% of values less than 4.9188E-011	90% of values less than 3.13418E-010
Minimum 5.75358E-023 6.70362E-010	Maximum 4.32377E-009	
Mean 1.21778E-010	SD 3.69053E-010	Variance 1.362E-019

Tank Farm Aromatics - EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.83868E-006	10% of values less than 4.34595E-006	25% of values less than 1.51413E-005
50% of values less than 4.42542E-005	75% of values less than 0.000101528	90% of values less than 0.00016589
Minimum 9.60094E-008 0.00021525	Maximum 0.000441257	
Mean 6.83104E-005	SD 7.04739E-005	Variance 4.96658E-009

Tank Farm Aromatics - EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 2.62213E-009	90% of values less than 2.33913E-008
Minimum 0.es less than 4.22225E-008	Maximum 1.51054E-007	
Mean 7.04241E-009	SD 1.84498E-008	Variance 3.40396E-016

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at Source [mg/l] - 1000 years

05% of values less than 4.2746	10% of values less than 4.31847	25% of values less than 4.42214
50% of values less than 4.55491	75% of values less than 4.68976	90% of values less than 4.82393
Minimum 4.11608s than 4.89544	Maximum 5.07857	
Mean 4.56299	SD 0.187843	Variance 0.0352851

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0.105583	25% of values less than 0.754254
50% of values less than 1.76753	75% of values less than 2.7357	90% of values less than 3.37102
Minimum 0.05 less than 3.72352	Maximum 4.73586	
Mean 1.78501	SD 1.18212	Variance 1.39741

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0.203234	25% of values less than 1.37303
50% of values less than 3.22823	75% of values less than 4.9906	90% of values less than 5.98637
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.226	SD 2.11962	Variance 4.49278

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 4.2746	10% of values less than 4.31847	25% of values less than 4.42214
50% of values less than 4.55491	75% of values less than 4.68976	90% of values less than 4.82393
Minimum 4.11608s than 4.89544	Maximum 5.07857	
Mean 4.56299	SD 0.187843	Variance 0.0352851

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.0904038	10% of values less than 0.0935751	25% of values less than 0.0989865
50% of values less than 0.108098	75% of values less than 0.120688	90% of values less than 0.163867
Minimum 0.0834854	Maximum 0.255254	
Mean 0.1175	SD 0.0295807	Variance 0.000875016

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.89906	10% of values less than 1.0539	25% of values less than 1.69305
50% of values less than 2.71482	75% of values less than 3.65024	90% of values less than 4.30004
Minimum 0.71368s than 4.61412	Maximum 6.03369	
Mean 2.71033	SD 1.19086	Variance 1.41815

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 1.61886	10% of values less than 1.88668	25% of values less than 3.08513
50% of values less than 4.88099	75% of values less than 6.67304	90% of values less than 7.7342
Minimum 1.24782s than 8.32133	Maximum 10.5585	
Mean 4.90237	SD 2.14369	Variance 4.59541

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000260754	10% of values less than 0.000344683	25% of values less than 0.000516986
50% of values less than 0.000840917	75% of values less than 0.00122345	90% of values less than 0.0016632
Minimum 6.47041E-005 0.00192945	Maximum 0.00279298	
Mean 0.00091945	SD 0.000513779	Variance 2.63969E-007

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.232082	10% of values less than 0.369725	25% of values less than 1.00101
50% of values less than 1.98184	75% of values less than 2.94273	90% of values less than 3.60214
Minimum 0.115542 than 3.93669	Maximum 5.16234	
Mean 2.01498	SD 1.18372	Variance 1.4012

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0.428598	10% of values less than 0.666307	25% of values less than 1.81449
50% of values less than 3.63048	75% of values less than 5.3967	90% of values less than 6.4584
Minimum 0.200787 than 6.98987	Maximum 8.82287	
Mean 3.64261	SD 2.12331	Variance 4.50845

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 3.44106E-005	10% of values less than 5.78898E-005	25% of values less than 0.000115327
50% of values less than 0.000275898	75% of values less than 0.000591486	90% of values less than 0.000886097
Minimum 1.12177E-005 0.00107115	Maximum 0.00197119	
Mean 0.000386536	SD 0.000340876	Variance 1.16196E-007

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0.00376663	10% of values less than 0.125212	25% of values less than 0.770587
50% of values less than 1.76753	75% of values less than 2.73643	90% of values less than 3.37102
Minimum 0.00376663	Maximum 4.78074	
Mean 1.79193	SD 1.18208	Variance 1.39732

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0.00628679	10% of values less than 0.238101	25% of values less than 1.38766
50% of values less than 3.2415	75% of values less than 4.9906	90% of values less than 6.01967
Minimum 0.00628679	Maximum 8.15716	
Mean 3.23852	SD 2.11963	Variance 4.49283

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0258173	10% of values less than 0.0283289	25% of values less than 0.0333278
50% of values less than 0.0437899	75% of values less than 0.0593277	90% of values less than 0.0738394
Minimum 0.01947121	Maximum 0.156919	
Mean 0.048275	SD 0.0194286	Variance 0.000377471

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.111775	25% of values less than 0.762364
50% of values less than 1.76753	75% of values less than 2.7357	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.75293	
Mean 1.7878	SD 1.18218	Variance 1.39755

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0.206307	25% of values less than 1.37303
50% of values less than 3.23755	75% of values less than 4.9906	90% of values less than 6.00972
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.23106	SD 2.11977	Variance 4.49343

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.0151682	10% of values less than 0.0179664	25% of values less than 0.0255024
50% of values less than 0.0354198	75% of values less than 0.0518359	90% of values less than 0.0732022
Minimum 0.00326878an 0.0839995	Maximum 0.169199	
Mean 0.0412448	SD 0.0225016	Variance 0.00050632

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.113099	25% of values less than 0.762364
50% of values less than 1.76753	75% of values less than 2.7357	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.75487	
Mean 1.78802	SD 1.18218	Variance 1.39755

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0	10% of values less than 0.207185	25% of values less than 1.37357
50% of values less than 3.23755	75% of values less than 4.9906	90% of values less than 6.01052
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.23146	SD 2.11977	Variance 4.49345

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.0127735	10% of values less than 0.0148154	25% of values less than 0.0211027
50% of values less than 0.0332183	75% of values less than 0.0487865	90% of values less than 0.0676677
Minimum 0.00270741	Maximum 0.169219	
Mean 0.0381082	SD 0.0230434	Variance 0.000530998

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0.0224231	10% of values less than 0.138282	25% of values less than 0.784385
50% of values less than 1.76843	75% of values less than 2.73996	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.81359	
Mean 1.79933	SD 1.18196	Variance 1.39702

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0.0429768	10% of values less than 0.251271	25% of values less than 1.39979
50% of values less than 3.2667	75% of values less than 4.99856	90% of values less than 6.05078
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.2519	SD 2.11941	Variance 4.49188

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.01729E-016
50% of values less than 1.11945E-012	75% of values less than 2.0046E-010	90% of values less than 2.65665E-009
Minimum 0.es less than 7.53267E-009	Maximum 1.03146E-007	
Mean 1.51388E-009	SD 6.76346E-009	Variance 4.57443E-017

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.23167	10% of values less than 3.47355	25% of values less than 4.27156
50% of values less than 5.27471	75% of values less than 6.24476	90% of values less than 7.02549
Minimum 2.92228s than 7.45479	Maximum 9.25114	
Mean 5.27793	SD 1.3043	Variance 1.70121

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 5.78046	10% of values less than 6.19349	25% of values less than 7.6365
50% of values less than 9.55081	75% of values less than 11.2457	90% of values less than 12.6423
Minimum 5.114ess than 13.5578	Maximum 16.9671	
Mean 9.55402	SD 2.43348	Variance 5.9218

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.07715E-007	10% of values less than 2.31881E-007	25% of values less than 6.31833E-007
50% of values less than 2.70676E-006	75% of values less than 9.30298E-006	90% of values less than 1.70854E-005
Minimum 1.72799E-009 2.1118E-005	Maximum 4.37714E-005	
Mean 6.02935E-006	SD 7.40076E-006	Variance 5.47712E-011

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 3.22553	10% of values less than 3.46737	25% of values less than 4.2656
50% of values less than 5.26853	75% of values less than 6.2378	90% of values less than 7.01593
Minimum 2.91648s than 7.44753	Maximum 9.2427	
Mean 5.27119	SD 1.30385	Variance 1.70001

Retarded Travel Time to DCE Receptor years

05% of values less than 5.76976	10% of values less than 6.18171	25% of values less than 7.62456
50% of values less than 9.53997	75% of values less than 11.234	90% of values less than 12.6307
Minimum 5.10385s than 13.5434	Maximum 16.9503	
Mean 9.54181	SD 2.43233	Variance 5.91625

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

DCE Tank Farm Lagoon - 1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.53696E-007	10% of values less than 3.45242E-007	25% of values less than 9.18621E-007
50% of values less than 3.89771E-006	75% of values less than 1.39842E-005	90% of values less than 2.47707E-005
Minimum 2.12925E-009 3.22835E-005	Maximum 5.80581E-005	
Mean 8.90667E-006	SD 1.08164E-005	Variance 1.16994E-010

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at Source [mg/l] - 1000 years

05% of values less than 139.099	10% of values less than 146.077	25% of values less than 161.96
50% of values less than 199.334	75% of values less than 258.101	90% of values less than 302.3
Minimum 122.882s than 325.831	Maximum 393.38	
Mean 212.944	SD 60.6128	Variance 3673.91

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0.0407238	10% of values less than 0.207903	25% of values less than 0.728308

50% of values less than 1.67851	75% of values less than 2.72971	90% of values less than 3.39715

Minimum 0.05 less than 3.71583	Maximum 4.73129

Mean 1.77466	SD 1.18712	Variance 1.40925

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0.0763001	10% of values less than 0.491551	25% of values less than 1.86262

50% of values less than 4.24048	75% of values less than 6.77959	90% of values less than 9.85592

Minimum 0.05 less than 11.473	Maximum 18.0704

Mean 4.7339	SD 3.52449	Variance 12.422

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 0.0578573	10% of values less than 0.551386	25% of values less than 6.87239
50% of values less than 31.1222	75% of values less than 86.9099	90% of values less than 150.397
Minimum 4.85065E-007 196.538	Maximum 319.215	
Mean 56.8726	SD 64.9873	Variance 4223.35

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.00157168	10% of values less than 0.0126956	25% of values less than 0.17013
50% of values less than 0.790012	75% of values less than 2.20367	90% of values less than 3.72672
Minimum 1.80633E-008 5.00588	Maximum 13.4251	
Mean 1.458	SD 1.7584	Variance 3.09197

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.919029	10% of values less than 1.12508	25% of values less than 1.68581
50% of values less than 2.56372	75% of values less than 3.64112	90% of values less than 4.32915
Minimum 0.683697 than 4.74543	Maximum 5.91567	
Mean 2.70037	SD 1.20711	Variance 1.45713

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 2.19966	10% of values less than 2.85398	25% of values less than 4.21168
50% of values less than 6.49995	75% of values less than 9.48106	90% of values less than 12.9525
Minimum 1.22207s than 14.9841	Maximum 21.2043	
Mean 7.2421	SD 3.92584	Variance 15.4123

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 2.97395E-005	10% of values less than 0.000199311	25% of values less than 0.00314799
50% of values less than 0.0193441	75% of values less than 0.0727308	90% of values less than 0.155022
Minimum 6.65577E-011 0.226246	Maximum 0.95783	
Mean 0.0559013	SD 0.0890911	Variance 0.00793722

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.281083	10% of values less than 0.451764	25% of values less than 0.983996
50% of values less than 1.88606	75% of values less than 2.96824	90% of values less than 3.62718
Minimum 0.0830391	Maximum 5.14207	
Mean 2.00493	SD 1.19322	Variance 1.42377

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0.697652	10% of values less than 1.04658	25% of values less than 2.49282
50% of values less than 4.82876	75% of values less than 7.41692	90% of values less than 10.537
Minimum 0.18521	Maximum 18.691	
Mean 5.35628	SD 3.6178	Variance 13.0885

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 5.35777E-006	10% of values less than 4.00313E-005	25% of values less than 0.000466444
50% of values less than 0.00251942	75% of values less than 0.0104213	90% of values less than 0.0273647
Minimum 1.24345E-011 0.0461761	Maximum 0.259848	
Mean 0.00980891	SD 0.0192337	Variance 0.000369935

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0.0456262	10% of values less than 0.208438	25% of values less than 0.738684
50% of values less than 1.68539	75% of values less than 2.73666	90% of values less than 3.40168
Minimum 0.05 less than 3.71583	Maximum 4.80328	
Mean 1.78173	SD 1.18821	Variance 1.41184

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0.0893061	10% of values less than 0.536644	25% of values less than 1.86484
50% of values less than 4.26799	75% of values less than 6.77959	90% of values less than 9.86818
Minimum 0.05 less than 11.5378	Maximum 18.0704	
Mean 4.75302	SD 3.53066	Variance 12.4656

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000696142	10% of values less than 0.00543667	25% of values less than 0.0816915
50% of values less than 0.385207	75% of values less than 1.05272	90% of values less than 1.9698
Minimum 7.37179E-009 2.62326	Maximum 6.83334	
Mean 0.754999	SD 0.965384	Variance 0.931966

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.0454456	10% of values less than 0.207918	25% of values less than 0.729825
50% of values less than 1.68093	75% of values less than 2.73655	90% of values less than 3.40168
Minimum 0.05 less than 3.71583	Maximum 4.77859	
Mean 1.77791	SD 1.18786	Variance 1.41102

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0.0794293	10% of values less than 0.529389	25% of values less than 1.86262
50% of values less than 4.24233	75% of values less than 6.77959	90% of values less than 9.85717
Minimum 0.05 less than 11.473	Maximum 18.0704	
Mean 4.74264	SD 3.52794	Variance 12.4464

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000598109	10% of values less than 0.0040906	25% of values less than 0.0619558
50% of values less than 0.295812	75% of values less than 0.8968	90% of values less than 1.61796
Minimum 4.39923E-009 2.21862	Maximum 7.7005	
Mean 0.629614	SD 0.885702	Variance 0.784469

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.0454456	10% of values less than 0.207918	25% of values less than 0.729825
50% of values less than 1.68234	75% of values less than 2.73655	90% of values less than 3.40168
Minimum 0.05 less than 3.71583	Maximum 4.78031	
Mean 1.77813	SD 1.18789	Variance 1.41109

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0.0794293	10% of values less than 0.532704	25% of values less than 1.86262
50% of values less than 4.24233	75% of values less than 6.77959	90% of values less than 9.85717
Minimum 0.05 less than 11.473	Maximum 18.0704	
Mean 4.74323	SD 3.52812	Variance 12.4476

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000395865	10% of values less than 0.00381196	25% of values less than 0.0541502
50% of values less than 0.274058	75% of values less than 0.790299	90% of values less than 1.67804
Minimum 8.83627E-009 2.22018	Maximum 5.27003	
Mean 0.583855	SD 0.786744	Variance 0.618966

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0.0536895	10% of values less than 0.221908	25% of values less than 0.745866
50% of values less than 1.68539	75% of values less than 2.75833	90% of values less than 3.40168
Minimum 0.0536895	Maximum 4.83245	
Mean 1.78883	SD 1.18882	Variance 1.41329

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0.150454	10% of values less than 0.569246	25% of values less than 1.88015
50% of values less than 4.26799	75% of values less than 6.78783	90% of values less than 9.91779
Minimum 0.150454	Maximum 18.0704	
Mean 4.772	SD 3.53467	Variance 12.4939

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 1.8972E-024	25% of values less than 3.79256E-016
50% of values less than 5.56854E-012	75% of values less than 7.52297E-010	90% of values less than 1.86326E-008
Minimum 0.es less than 7.55419E-008	Maximum 4.87638E-006	
Mean 3.76561E-008	SD 2.59706E-007	Variance 6.7447E-014

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.26979	10% of values less than 3.52619	25% of values less than 4.18348
50% of values less than 5.16915	75% of values less than 6.2127	90% of values less than 7.12552
Minimum 2.90162s than 7.7148	Maximum 9.66288	
Mean 5.26829	SD 1.34223	Variance 1.80157

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 6.6808	10% of values less than 7.7196	25% of values less than 9.95467
50% of values less than 13.0671	75% of values less than 17.3473	90% of values less than 22.1223
Minimum 4.47469s than 24.9386	Maximum 35.7577	
Mean 14.2055	SD 5.68174	Variance 32.2821

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.80279E-007	10% of values less than 1.15962E-006	25% of values less than 6.15147E-005
50% of values less than 0.00129045	75% of values less than 0.0102046	90% of values less than 0.0308975
Minimum 8.70762E-014 0.0509197	Maximum 0.219141	
Mean 0.01066	SD 0.0237754	Variance 0.000565269

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 3.2641	10% of values less than 3.52015	25% of values less than 4.17766
50% of values less than 5.16146	75% of values less than 6.20656	90% of values less than 7.11732
Minimum 2.8958ss than 7.7058	Maximum 9.65292	
Mean 5.26155	SD 1.34172	Variance 1.80022

Retarded Travel Time to DCE Receptor years

05% of values less than 6.67135	10% of values less than 7.7086	25% of values less than 9.94364
50% of values less than 13.0444	75% of values less than 17.3238	90% of values less than 22.0992
Minimum 4.4663ss than 24.913	Maximum 35.7148	
Mean 14.1872	SD 5.67634	Variance 32.2208

TCE Tank Farm Lagoon - Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 2.93084E-007	10% of values less than 1.74794E-006	25% of values less than 9.34947E-005
50% of values less than 0.00194065	75% of values less than 0.0148892	90% of values less than 0.0457592
Minimum 1.45269E-013 0.0790641	Maximum 0.301454	
Mean 0.0155993	SD 0.0340637	Variance 0.00116034

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at Source [mg/l] - 1000 years

05% of values less than 9.80175	10% of values less than 10.194	25% of values less than 11.4237
50% of values less than 14.1806	75% of values less than 18.3438	90% of values less than 21.6454
Minimum 8.84878s than 23.4767	Maximum 27.4744	
Mean 15.1552	SD 4.36299	Variance 19.0357

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0.162671	25% of values less than 0.773994
50% of values less than 1.76328	75% of values less than 2.76961	90% of values less than 3.45119
Minimum 0.05 less than 3.75013	Maximum 4.85825	
Mean 1.8095	SD 1.20074	Variance 1.44177

Retarded Travel Time to Base of Unsaturated Zone Superficial [years]

05% of values less than 0	10% of values less than 0.406852	25% of values less than 1.91496
50% of values less than 4.33702	75% of values less than 6.94025	90% of values less than 9.85266
Minimum 0.05 less than 11.4218	Maximum 19.1228	
Mean 4.80714	SD 3.51804	Variance 12.3766

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at Base of Unsaturated Zone Superficial [mg/l] - 1000 years

05% of values less than 0.00900556	10% of values less than 0.0499682	25% of values less than 0.532488
50% of values less than 2.25086	75% of values less than 5.94188	90% of values less than 10.7468
Minimum 1.48245E-010 13.1178	Maximum 25.3904	
Mean 3.93976	SD 4.5	Variance 20.25

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Diluted Concentration [mg/l] Superficial - 1000 years

05% of values less than 0.000157843	10% of values less than 0.000915637	25% of values less than 0.00942962
50% of values less than 0.0402365	75% of values less than 0.111422	90% of values less than 0.198325
Minimum 4.01242E-012 0.264252	Maximum 0.591212	
Mean 0.0749892	SD 0.0899908	Variance 0.00809835

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.853511	10% of values less than 1.04639	25% of values less than 1.62724
50% of values less than 2.58517	75% of values less than 3.6071	90% of values less than 4.3115
Minimum 0.648009	Maximum 5.58641	
Mean 2.6491	SD 1.20965	Variance 1.46326

Retarded Travel Time to Boiler House Aromatics Receptor years

05% of values less than 1.98888	10% of values less than 2.5713	25% of values less than 4.07168
50% of values less than 6.53923	75% of values less than 9.23667	90% of values less than 12.5992
Minimum 1.09549s	Maximum 23.9687	
Mean 7.08523	SD 3.86225	Variance 14.917

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 1.00631E-011	10% of values less than 7.38834E-011	25% of values less than 7.63376E-010
50% of values less than 4.56272E-009	75% of values less than 2.58667E-008	90% of values less than 7.40711E-008
Minimum 3.56208E-019 1.38977E-007	Maximum 9.0815E-007	
Mean 2.99491E-008	SD 7.60958E-008	Variance 5.79057E-015

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.169133	10% of values less than 0.328148	25% of values less than 0.92953
50% of values less than 1.87802	75% of values less than 2.89159	90% of values less than 3.57754
Minimum 0.04420951	Maximum 4.94879	
Mean 1.95004	SD 1.20138	Variance 1.44332

Retarded Travel Time to ETP Aromatics Receptor years

05% of values less than 0.443572	10% of values less than 0.792158	25% of values less than 2.25765
50% of values less than 4.67422	75% of values less than 7.31926	90% of values less than 10.4324
Minimum 0.08428411	Maximum 19.8816	
Mean 5.18949	SD 3.56501	Variance 12.7093

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.22315E-017
Minimum 0.es less than 5.83772E-017	Maximum 8.65411E-015	
Mean 3.19712E-017	SD 3.1663E-016	Variance 1.00255E-031

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0.162671	25% of values less than 0.773994
50% of values less than 1.76328	75% of values less than 2.76961	90% of values less than 3.45119
Minimum 0.05 less than 3.75013	Maximum 4.85825	
Mean 1.8095	SD 1.20074	Variance 1.44177

Retarded Travel Time to Tank Farm Aromatics Receptor years

05% of values less than 0	10% of values less than 0.406852	25% of values less than 1.91496
50% of values less than 4.33702	75% of values less than 6.94025	90% of values less than 9.85266
Minimum 0.05 less than 11.4218	Maximum 19.1228	
Mean 4.80714	SD 3.51804	Variance 12.3766

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 3.13462E-018	Maximum 2.45929E-014	
Mean 4.9894E-017	SD 8.40146E-016	Variance 7.05845E-031

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.00190613	10% of values less than 0.231904	25% of values less than 0.902592
50% of values less than 1.95308	75% of values less than 3.09198	90% of values less than 4.14383
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 81919.9	SD 274377	Variance 7.52827E+010

Retarded Travel Time to DCE Tank Farm Lagoon Receptor years

05% of values less than 0.00657925	10% of values less than 0.528165	25% of values less than 2.24648
50% of values less than 5.0033	75% of values less than 8.15352	90% of values less than 13.0952
Minimum 0.es less than 2.21352E+006	Maximum 4.62184E+006	
Mean 215930	SD 762562	Variance 5.81502E+011

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.00190613	10% of values less than 0.223196	25% of values less than 0.899443
50% of values less than 1.93224	75% of values less than 3.04749	90% of values less than 4.06127
Minimum 0.00190613	Maximum 1E+006	
Mean 75925.9	SD 265009	Variance 7.02297E+010

Retarded Travel Time to TCE Tank Farm Lagoon Receptor years

05% of values less than 0.00657925	10% of values less than 0.521916	25% of values less than 2.21671
50% of values less than 4.94378	75% of values less than 8.05862	90% of values less than 12.771
Minimum 0.00657925	Maximum 4.62184E+006	
Mean 199632	SD 734000	Variance 5.38757E+011

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.63611E-016
Minimum 0.es less than 1.75882E-015	Maximum 8.0839E-012	
Mean 1.73814E-014	SD 2.78592E-013	Variance 7.76134E-026

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0.162671	25% of values less than 0.773994
50% of values less than 1.76328	75% of values less than 2.76961	90% of values less than 3.45119
Minimum 0.05 less than 3.75013	Maximum 4.85825	
Mean 1.8095	SD 1.20074	Variance 1.44177

Retarded Travel Time to TCE Waste Chip Plant Receptor years

05% of values less than 0	10% of values less than 0.406852	25% of values less than 1.91496
50% of values less than 4.33702	75% of values less than 6.94025	90% of values less than 9.85266
Minimum 0.05 less than 11.4218	Maximum 19.1228	
Mean 4.80714	SD 3.51804	Variance 12.3766

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 5.98679E-005	10% of values less than 0.000249009	25% of values less than 0.00268515
50% of values less than 0.0123735	75% of values less than 0.0421695	90% of values less than 0.0916752
Minimum 1.19599E-012 0.132804	Maximum 0.307899	
Mean 0.0326161	SD 0.0483175	Variance 0.00233458

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.25201	10% of values less than 3.46627	25% of values less than 4.16702
50% of values less than 5.15587	75% of values less than 6.23697	90% of values less than 6.98789
Minimum 2.84436s than 7.43242	Maximum 8.9997	
Mean 5.23033	SD 1.3279	Variance 1.76333

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 6.57855	10% of values less than 7.61095	25% of values less than 9.796
50% of values less than 13.113	75% of values less than 17.5254	90% of values less than 21.568
Minimum 4.27297s than 24.4715	Maximum 39.0605	
Mean 14.0852	SD 5.61116	Variance 31.4852

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 2.20955E-010	10% of values less than 2.20287E-009	25% of values less than 1.01817E-007
50% of values less than 1.58389E-006	75% of values less than 1.03156E-005	90% of values less than 3.77654E-005
Minimum 8.6351E-018n 5.69813E-005	Maximum 0.000279659	
Mean 1.1739E-005	SD 2.65686E-005	Variance 7.05889E-010

TCE Waste Chip Plant - Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 3.24555	10% of values less than 3.46029	25% of values less than 4.15914
50% of values less than 5.14891	75% of values less than 6.23008	90% of values less than 6.98067
Minimum 2.83859s than 7.42422	Maximum 8.99074	
Mean 5.22356	SD 1.32743	Variance 1.76208

Retarded Travel Time to DCE Receptor years

05% of values less than 6.56793	10% of values less than 7.59802	25% of values less than 9.77797
50% of values less than 13.0937	75% of values less than 17.5066	90% of values less than 21.5417
Minimum 4.26463s than 24.4512	Maximum 39.0209	
Mean 14.0669	SD 5.60574	Variance 31.4244

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

TCE Waste Chip Plant - Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 2.56793E-009	10% of values less than 2.51427E-008	25% of values less than 1.06904E-006
50% of values less than 1.63528E-005	75% of values less than 0.000113204	90% of values less than 0.000404802
Minimum 9.54843E-017 0.00061519	Maximum 0.00263851	
Mean 0.000123394	SD 0.000265324	Variance 7.03968E-008

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.89906	10% of values less than 1.0539	25% of values less than 1.69305
50% of values less than 2.71482	75% of values less than 3.65024	90% of values less than 4.30004
Minimum 0.71368s than 4.61412	Maximum 6.03369	
Mean 2.71033	SD 1.19086	Variance 1.41815

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 1.61886	10% of values less than 1.88668	25% of values less than 3.08513
50% of values less than 4.88099	75% of values less than 6.67304	90% of values less than 7.7342
Minimum 1.24782s than 8.32133	Maximum 10.5585	
Mean 4.90237	SD 2.14369	Variance 4.59541

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Naphthalene

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.100003	90% of values less than 0.162398
Minimum 0.05 less than 0.181689	Maximum 0.261895	
Mean 0.0503558	SD 0.0673682	Variance 0.00453847

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 4.94383	90% of values less than 8.06102
Minimum 0.05 less than 9.33547	Maximum 16.6257	
Mean 2.57679	SD 3.49401	Variance 12.2081

Trichloroethene (TCE)

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.806765	10% of values less than 0.899436	25% of values less than 1.20489
50% of values less than 1.80656	75% of values less than 2.62879	90% of values less than 3.41865
Minimum 0.648009	Maximum 4.82647	
Mean 1.98957	SD 0.931697	Variance 0.86806

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 1.75939	10% of values less than 2.10075	25% of values less than 3.07265
50% of values less than 4.68471	75% of values less than 7.02112	90% of values less than 9.48645
Minimum 1.09549s	Maximum 17.3532	
Mean 5.34278	SD 2.97679	Variance 8.8613

EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.0194355	10% of values less than 0.0409531	25% of values less than 0.10343
50% of values less than 0.413782	75% of values less than 0.605221	90% of values less than 0.706554
Minimum 0.000133236	Maximum 1.08395	
Mean 0.36453	SD 0.278477	Variance 0.0775492

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.932316	10% of values less than 2.04962	25% of values less than 5.20286
50% of values less than 19.4358	75% of values less than 30.5994	90% of values less than 36.58
Minimum 0.00620739	Maximum 72.2892	
Mean 18.8723	SD 15.183	Variance 230.524

EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.0194355	10% of values less than 0.0409531	25% of values less than 0.10343
50% of values less than 0.413782	75% of values less than 0.605221	90% of values less than 0.706554
Minimum 0.000133236	Maximum 1.08395	
Mean 0.36453	SD 0.278477	Variance 0.0775492

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 1.84566	10% of values less than 4.0577	25% of values less than 10.2979
50% of values less than 38.4245	75% of values less than 60.5861	90% of values less than 72.4074
Minimum 0.0122815	Maximum 143.599	
Mean 37.3802	SD 30.0955	Variance 905.74

EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 0.0194355	10% of values less than 0.0409531	25% of values less than 0.10343
50% of values less than 0.413782	75% of values less than 0.605221	90% of values less than 0.706554
Minimum 0.000133236	Maximum 1.08395	
Mean 0.36453	SD 0.278477	Variance 0.0775492

Retarded Travel Time to Boiler House Aromatics Receptor [years]

05% of values less than 5.86435	10% of values less than 12.8932	25% of values less than 32.7162
50% of values less than 121.974	75% of values less than 192.412	90% of values less than 230.292
Minimum 0.0390078	Maximum 457.36	
Mean 118.815	SD 95.7107	Variance 9160.54

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

1,2-Dichloroethene (1,2-DCE)

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000260754	10% of values less than 0.000344683	25% of values less than 0.000516986
50% of values less than 0.000840917	75% of values less than 0.00122345	90% of values less than 0.0016632
Minimum 6.47041E-005 0.00192945	Maximum 0.00279298	
Mean 0.00091945	SD 0.000513779	Variance 2.63969E-007

Naphthalene

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00153091	10% of values less than 0.00241208	25% of values less than 0.00457386
50% of values less than 0.0101563	75% of values less than 0.0295953	90% of values less than 0.058205
Minimum 0.000246461	Maximum 0.164205	
Mean 0.0215753	SD 0.0255628	Variance 0.000653456

Trichloroethene (TCE)

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 2.97429E-005	10% of values less than 0.000199317	25% of values less than 0.00314799
50% of values less than 0.0193442	75% of values less than 0.0727308	90% of values less than 0.155022
Minimum 3.18672E-010 0.226246	Maximum 0.95783	
Mean 0.0559013	SD 0.0890911	Variance 0.00793722

EC10-EC12 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0143137	10% of values less than 0.0203847	25% of values less than 0.0357564
50% of values less than 0.0869338	75% of values less than 0.242727	90% of values less than 0.497188
Minimum 0.00233721	Maximum 1.40055	
Mean 0.181747	SD 0.220341	Variance 0.04855

EC12-EC16 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0470212	10% of values less than 0.0606585	25% of values less than 0.113469
50% of values less than 0.214862	75% of values less than 0.346759	90% of values less than 0.487071
Minimum 0.01064771an 0.563197	Maximum 0.977798	
Mean 0.248064	SD 0.167146	Variance 0.0279377

EC16-EC21 Aromatics

Concentration at Boiler House Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00217258	10% of values less than 0.00285253	25% of values less than 0.00567186
50% of values less than 0.0106614	75% of values less than 0.0237308	90% of values less than 0.0403057
Minimum 0.0003264681 0.0511936	Maximum 0.101733	
Mean 0.0168023	SD 0.0158136	Variance 0.000250069

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.232082	10% of values less than 0.369725	25% of values less than 1.00101
50% of values less than 1.98184	75% of values less than 2.94273	90% of values less than 3.60214
Minimum 0.115542 than 3.93669	Maximum 5.16234	
Mean 2.01498	SD 1.18372	Variance 1.4012

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.428598	10% of values less than 0.666307	25% of values less than 1.81449
50% of values less than 3.63048	75% of values less than 5.3967	90% of values less than 6.4584
Minimum 0.200787 than 6.98987	Maximum 8.82287	
Mean 3.64261	SD 2.12331	Variance 4.50845

Naphthalene

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Trichloroethene (TCE)

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.14038	10% of values less than 0.217865	25% of values less than 0.514894
50% of values less than 1.10541	75% of values less than 1.93329	90% of values less than 2.6911
Minimum 0.04420951	Maximum 3.96542	
Mean 1.29232	SD 0.919775	Variance 0.845987

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.347848	10% of values less than 0.53885	25% of values less than 1.28566
50% of values less than 2.81891	75% of values less than 4.97104	90% of values less than 7.11009
Minimum 0.08428411	Maximum 14.133	
Mean 3.452	SD 2.69418	Variance 7.2586

EC10-EC12 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0154254	10% of values less than 0.0303312	25% of values less than 0.0750579
50% of values less than 0.16131	75% of values less than 0.264815	90% of values less than 0.332823
Minimum 0.000169117	Maximum 0.54457	
Mean 0.175533	SD 0.118361	Variance 0.0140093

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.695788	10% of values less than 1.49855	25% of values less than 3.65954
50% of values less than 8.29138	75% of values less than 13.4716	90% of values less than 17.1551
Minimum 0.00725394	Maximum 35.0122	
Mean 9.10962	SD 6.47945	Variance 41.9833

EC12-EC16 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0154254	10% of values less than 0.0303312	25% of values less than 0.0750579
50% of values less than 0.16131	75% of values less than 0.264815	90% of values less than 0.332823
Minimum 0.000169117	Maximum 0.54457	
Mean 0.175533	SD 0.118361	Variance 0.0140093

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 1.37795	10% of values less than 2.96701	25% of values less than 7.25404
50% of values less than 16.4074	75% of values less than 26.6755	90% of values less than 34.0219
Minimum 0.0143388	Maximum 69.4798	
Mean 18.0437	SD 12.8444	Variance 164.98

EC16-EC21 Aromatics

Unretarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 0.0154254	10% of values less than 0.0303312	25% of values less than 0.0750579
50% of values less than 0.16131	75% of values less than 0.264815	90% of values less than 0.332823
Minimum 0.000169117	Maximum 0.54457	
Mean 0.175533	SD 0.118361	Variance 0.0140093

Retarded Travel Time to ETP Aromatics Receptor [years]

05% of values less than 4.37948	10% of values less than 9.42819	25% of values less than 23.0699
50% of values less than 52.1177	75% of values less than 84.7723	90% of values less than 108.093
Minimum 0.045512	Maximum 221.137	
Mean 57.3537	SD 40.8505	Variance 1668.77

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

1,2-Dichloroethene (1,2-DCE)

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 3.44106E-005	10% of values less than 5.78898E-005	25% of values less than 0.000115327
50% of values less than 0.000275898	75% of values less than 0.000591486	90% of values less than 0.000886097
Minimum 1.12177E-005 0.00107115	Maximum 0.00197119	
Mean 0.000386536	SD 0.000340876	Variance 1.16196E-007

Naphthalene

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 5.35777E-006	10% of values less than 4.00313E-005	25% of values less than 0.000466444
50% of values less than 0.00251942	75% of values less than 0.0104213	90% of values less than 0.0273647
Minimum 1.24345E-011 0.0461761	Maximum 0.259848	
Mean 0.00980891	SD 0.0192337	Variance 0.000369935

EC10-EC12 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00293602	10% of values less than 0.00388519	25% of values less than 0.00594528
50% of values less than 0.00979408	75% of values less than 0.0173761	90% of values less than 0.0287322
Minimum 0.00116693an 0.0394411	Maximum 0.0944419	
Mean 0.0137504	SD 0.0117613	Variance 0.000138329

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC12-EC16 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.034584	10% of values less than 0.0405594	25% of values less than 0.0540966
50% of values less than 0.0738762	75% of values less than 0.0989112	90% of values less than 0.130354
Minimum 0.01665131an 0.14904	Maximum 0.252705	
Mean 0.0801558	SD 0.0362703	Variance 0.00131553

EC16-EC21 Aromatics

Concentration at ETP Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00193386	10% of values less than 0.00240419	25% of values less than 0.00325307
50% of values less than 0.00474299	75% of values less than 0.00709251	90% of values less than 0.0105018
Minimum 0.00100985an 0.0125282	Maximum 0.0241666	
Mean 0.00565695	SD 0.0034394	Variance 1.18295E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0.00376663	10% of values less than 0.125212	25% of values less than 0.770587
50% of values less than 1.76753	75% of values less than 2.73643	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.78074	
Mean 1.79193	SD 1.18208	Variance 1.39732

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0.00628679	10% of values less than 0.238101	25% of values less than 1.38766
50% of values less than 3.2415	75% of values less than 4.9906	90% of values less than 6.01967
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.23852	SD 2.11963	Variance 4.49283

Naphthalene

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Trichloroethene (TCE)

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0.0666524	25% of values less than 0.39004
50% of values less than 0.979225	75% of values less than 1.82407	90% of values less than 2.55523
Minimum 0.05 less than 2.83408	Maximum 4.40164	
Mean 1.16747	SD 0.919741	Variance 0.845923

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0.170221	25% of values less than 0.966971
50% of values less than 2.54136	75% of values less than 4.58044	90% of values less than 6.66395
Minimum 0.05 less than 8.637	Maximum 14.8731	
Mean 3.10548	SD 2.65114	Variance 7.02852

EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.167	90% of values less than 2.43378
Minimum 0.1324	Maximum 6.56543	
Mean 0.521435	SD 1.09923	Variance 1.2083

EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.330474	90% of values less than 4.81794
Minimum 0.20354	Maximum 13.0287	
Mean 1.03267	SD 2.17748	Variance 4.74143

EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.00349493	90% of values less than 0.0496163
Minimum 0.es less than 0.0615273	Maximum 0.102117	
Mean 0.0102001	SD 0.0212173	Variance 0.000450172

Retarded Travel Time to Tank Farm Aromatics Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.04976	90% of values less than 15.3082
Minimum 0.es less than 19.7165	Maximum 41.4673	
Mean 3.28211	SD 6.92182	Variance 47.9116

1,2-Dichloroethene (1,2-DCE)

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.0258173	10% of values less than 0.0283289	25% of values less than 0.0333278
50% of values less than 0.0437899	75% of values less than 0.0593277	90% of values less than 0.0738394
Minimum 0.0194712	Maximum 0.156919	
Mean 0.048275	SD 0.0194286	Variance 0.000377471

Naphthalene

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000696142	10% of values less than 0.00543667	25% of values less than 0.0816915
50% of values less than 0.385207	75% of values less than 1.05272	90% of values less than 1.9698
Minimum 7.37179E-009 2.62326	Maximum 6.83334	
Mean 0.754999	SD 0.965384	Variance 0.931966

EC10-EC12 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000291566	10% of values less than 0.000539271	25% of values less than 0.00186096
50% of values less than 0.00611301	75% of values less than 0.0155889	90% of values less than 0.0285387
Minimum 2.54382E-007 0.0339169	Maximum 0.0684861	
Mean 0.0105762	SD 0.0118404	Variance 0.000140196

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC12-EC16 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.00154528	10% of values less than 0.00316123	25% of values less than 0.0110437
50% of values less than 0.0394389	75% of values less than 0.0670756	90% of values less than 0.0898571
Minimum 6.01331E-007 0.104334	Maximum 0.191167	
Mean 0.0430519	SD 0.0351596	Variance 0.0012362

EC16-EC21 Aromatics

Concentration at Tank Farm Aromatics Receptor [mg/l] - 1000 years

05% of values less than 0.000183191	10% of values less than 0.000313905	25% of values less than 0.00103877
50% of values less than 0.00366727	75% of values less than 0.0075957	90% of values less than 0.0119046
Minimum 9.98672E-008 0.014012	Maximum 0.0300413	
Mean 0.00499446	SD 0.00474019	Variance 2.24694E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.111775	25% of values less than 0.762364
50% of values less than 1.76753	75% of values less than 2.7357	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.75293	
Mean 1.7878	SD 1.18218	Variance 1.39755

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.206307	25% of values less than 1.37303
50% of values less than 3.23755	75% of values less than 4.9906	90% of values less than 6.00972
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.23106	SD 2.11977	Variance 4.49343

Naphthalene

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Trichloroethene (TCE)

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.000414096	10% of values less than 0.0907262	25% of values less than 0.433949
50% of values less than 1.06013	75% of values less than 1.93224	90% of values less than 2.68386
Minimum 0.000000000	Maximum 1E+006	
Mean 4996.24	SD 70533.9	Variance 4.97503E+009

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.00133843	10% of values less than 0.231539	25% of values less than 1.13255
50% of values less than 2.66033	75% of values less than 4.89886	90% of values less than 7.09681
Minimum 0.000000000	Maximum 3.33543E+006	
Mean 11381.2	SD 166216	Variance 2.76277E+010

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC10-EC12 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.3379
Minimum 0.01624	Maximum 4.49242	
Mean 0.270328	SD 0.698052	Variance 0.487276

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC12-EC16 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 2.64853
Minimum 0.399693	Maximum 8.91496	
Mean 0.535361	SD 1.3827	Variance 1.91185

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC16-EC21 Aromatics

Unretarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0272777
Minimum 0.es less than 0.0406142	Maximum 0.0701021	
Mean 0.00529472	SD 0.0135493	Variance 0.000183585

Retarded Travel Time to DCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 8.41528
Minimum 0.es less than 12.7167	Maximum 28.3741	
Mean 1.70151	SD 4.39515	Variance 19.3173

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.0151682	10% of values less than 0.0179664	25% of values less than 0.0255024
50% of values less than 0.0354198	75% of values less than 0.0518359	90% of values less than 0.0732022
Minimum 0.00326878an 0.0839995	Maximum 0.169199	
Mean 0.0412448	SD 0.0225016	Variance 0.00050632

Naphthalene

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000598109	10% of values less than 0.0040906	25% of values less than 0.0619558
50% of values less than 0.295812	75% of values less than 0.8968	90% of values less than 1.61796
Minimum 4.39923E-009 2.21862	Maximum 7.7005	
Mean 0.629614	SD 0.885702	Variance 0.784469

EC10-EC12 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.00106073	10% of values less than 0.00170062	25% of values less than 0.00433812
50% of values less than 0.0105707	75% of values less than 0.0220232	90% of values less than 0.0363946
Minimum 2.75965E-007 0.0422945	Maximum 0.0888703	
Mean 0.0153145	SD 0.0144425	Variance 0.000208587

EC12-EC16 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.00609047	10% of values less than 0.00955067	25% of values less than 0.0263789
50% of values less than 0.0560572	75% of values less than 0.0826067	90% of values less than 0.101016
Minimum 6.0805E-007n 0.116742	Maximum 0.204566	
Mean 0.0566565	SD 0.0363804	Variance 0.00132353

EC16-EC21 Aromatics

Concentration at DCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000646316	10% of values less than 0.000978064	25% of values less than 0.00273388
50% of values less than 0.00563936	75% of values less than 0.0101749	90% of values less than 0.0142777
Minimum 1.03928E-007 0.016691	Maximum 0.034392	
Mean 0.00690345	SD 0.00536449	Variance 2.87778E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.113099	25% of values less than 0.762364
50% of values less than 1.76753	75% of values less than 2.7357	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.75487	
Mean 1.78802	SD 1.18218	Variance 1.39755

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0.207185	25% of values less than 1.37357
50% of values less than 3.23755	75% of values less than 4.9906	90% of values less than 6.01052
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.23146	SD 2.11977	Variance 4.49345

Naphthalene

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

Trichloroethene (TCE)

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.00190613	10% of values less than 0.0898999	25% of values less than 0.426403
50% of values less than 1.05383	75% of values less than 1.92062	90% of values less than 2.65636
Minimum 0.05 less than 3.02042	Maximum 1E+006	
Mean 4996.23	SD 70533.9	Variance 4.97503E+009

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0.00657925	10% of values less than 0.229092	25% of values less than 1.10669
50% of values less than 2.64417	75% of values less than 4.78103	90% of values less than 7.04257
Minimum 0.05 less than 9.10664	Maximum 3.33543E+006	
Mean 11381.2	SD 166216	Variance 2.76277E+010

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

EC10-EC12 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.es less than 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.41428
Minimum 0.es less than 2.09765	Maximum 4.63689	
Mean 0.285259	SD 0.72428	Variance 0.524582

EC12-EC16 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 2.79972
Minimum 0.16052	Maximum 9.20165	
Mean 0.564933	SD 1.43466	Variance 2.05825

EC16-EC21 Aromatics

Unretarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0.0289367
Minimum 0.0419595	Maximum 0.0721208	
Mean 0.00558567	SD 0.0140512	Variance 0.000197437

Retarded Travel Time to TCE Tank Farm Lagoon Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 8.89566
Minimum 0.132371	Maximum 29.2866	
Mean 1.7955	SD 4.56033	Variance 20.7966

Project: Ford Bridgend CWRA Soil Source Assessment

Project Number: 21476577

1,2-Dichloroethene (1,2-DCE)

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.0127735	10% of values less than 0.0148154	25% of values less than 0.0211027
50% of values less than 0.0332183	75% of values less than 0.0487865	90% of values less than 0.0676677
Minimum 0.00270741	Maximum 0.169219	
Mean 0.0381082	SD 0.0230434	Variance 0.000530998

Naphthalene

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 0.000395865	10% of values less than 0.00381196	25% of values less than 0.0541502
50% of values less than 0.274058	75% of values less than 0.790299	90% of values less than 1.67804
Minimum 8.83627E-009 2.22018	Maximum 5.27003	
Mean 0.583855	SD 0.786744	Variance 0.618966

EC10-EC12 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 3.91699E-007	10% of values less than 8.68233E-006	25% of values less than 0.000102655
50% of values less than 0.00179579	75% of values less than 0.00732479	90% of values less than 0.0188138
Minimum 0.es less than 0.0288717	Maximum 0.0872262	
Mean 0.00608411	SD 0.0101312	Variance 0.00010264

EC12-EC16 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 9.59259E-007

10% of values less than 3.01971E-005

25% of values less than 0.000552412

50% of values less than 0.00918731

75% of values less than 0.036739

90% of values less than 0.0681844

Minimum Ores less than 0.0832157

Maximum 0.203558

Mean 0.0226755

SD 0.0292622

Variance 0.000856275

EC16-EC21 Aromatics

Concentration at TCE Tank Farm Lagoon Receptor [mg/l] - 1000 years

05% of values less than 1.38008E-007

10% of values less than 4.00661E-006

25% of values less than 5.4594E-005

50% of values less than 0.00096073

75% of values less than 0.00380903

90% of values less than 0.00877954

Minimum Ores less than 0.0112701

Maximum 0.0340618

Mean 0.00276073

SD 0.00402397

Variance 1.61924E-005

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0.0224231	10% of values less than 0.138282	25% of values less than 0.784385
50% of values less than 1.76843	75% of values less than 2.73996	90% of values less than 3.37102
Minimum 0.05 less than 3.72514	Maximum 4.81359	
Mean 1.79933	SD 1.18196	Variance 1.39702

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0.0429768	10% of values less than 0.251271	25% of values less than 1.39979
50% of values less than 3.2667	75% of values less than 4.99856	90% of values less than 6.05078
Minimum 0.05 less than 6.54457	Maximum 8.15716	
Mean 3.2519	SD 2.11941	Variance 4.49188

Naphthalene

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0.0113081	Variance 0.000127872

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 4.09896E+007	10% of values less than 4.27719E+007	25% of values less than 4.63505E+007
50% of values less than 5.07059E+007	75% of values less than 5.64038E+007	90% of values less than 6.13202E+007
Minimum 3.69725E+0076.39569E+007	Maximum 7.37747E+007	
Mean 5.15204E+007	SD 7.06854E+006	Variance 4.99642E+013

Trichloroethene (TCE)

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0.0687663	25% of values less than 0.385682
50% of values less than 0.98128	75% of values less than 1.81696	90% of values less than 2.55523
Minimum 0.05 less than 2.83408	Maximum 4.40164	
Mean 1.16709	SD 0.920871	Variance 0.848003

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0.170305	25% of values less than 0.966971
50% of values less than 2.53169	75% of values less than 4.57586	90% of values less than 6.72221
Minimum 0.05 less than 8.65967	Maximum 14.8731	
Mean 3.1035	SD 2.65322	Variance 7.03959

EC10-EC12 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 1.41337	90% of values less than 3.77145
Minimum 0.453121	Maximum 9.01453	
Mean 0.920754	SD 1.62305	Variance 2.63429

EC12-EC16 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.es less than 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 2.79295	90% of values less than 7.46596
Minimum 0.es less than 8.97891	Maximum 17.8888	
Mean 1.82356	SD 3.21533	Variance 10.3383

EC16-EC21 Aromatics

Unretarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0.0273617	90% of values less than 0.0743869
Minimum 0.0874011	Maximum 0.140209	
Mean 0.0179455	SD 0.0311833	Variance 0.000972397

Retarded Travel Time to TCE Waste Chip Plant Receptor [years]

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 8.86315	90% of values less than 23.7218
Minimum 0.5488	Maximum 56.9358	
Mean 5.79592	SD 10.2214	Variance 104.476

1,2-Dichloroethene (1,2-DCE)

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 1.01729E-016
50% of values less than 1.11945E-012	75% of values less than 2.0046E-010	90% of values less than 2.65665E-009
Minimum 0.es less than 7.53267E-009	Maximum 1.03146E-007	
Mean 1.51388E-009	SD 6.76346E-009	Variance 4.57443E-017

Naphthalene

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Trichloroethene (TCE)

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 5.98679E-005	10% of values less than 0.000249011	25% of values less than 0.00268516
50% of values less than 0.0123735	75% of values less than 0.0421695	90% of values less than 0.0916752
Minimum 1.19599E-012 0.132804	Maximum 0.307899	
Mean 0.0326162	SD 0.0483175	Variance 0.00233458

EC10-EC12 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 4.34586E-017	75% of values less than 3.26628E-013	90% of values less than 5.35047E-011
Minimum 0.es less than 5.02282E-010	Maximum 3.01031E-008	
Mean 2.50553E-010	SD 1.71821E-009	Variance 2.95224E-018

EC12-EC16 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.49988E-016	75% of values less than 2.26338E-012	90% of values less than 4.72616E-010
Minimum 0.es less than 4.59931E-009	Maximum 2.20706E-007	
Mean 2.21314E-009	SD 1.49996E-008	Variance 2.24988E-016

EC16-EC21 Aromatics

Concentration at TCE Waste Chip Plant Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 2.63225E-017	75% of values less than 2.28784E-013	90% of values less than 4.07954E-011
Minimum 0.es less than 4.11073E-010	Maximum 1.56609E-008	
Mean 1.61707E-010	SD 1.07441E-009	Variance 1.15436E-018

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.23167	10% of values less than 3.47355	25% of values less than 4.27156
50% of values less than 5.27471	75% of values less than 6.24476	90% of values less than 7.02549
Minimum 2.92228s than 7.45479	Maximum 9.25114	
Mean 5.27793	SD 1.3043	Variance 1.70121

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 5.78046	10% of values less than 6.19349	25% of values less than 7.6365
50% of values less than 9.55081	75% of values less than 11.2457	90% of values less than 12.6423
Minimum 5.114ess than 13.5578	Maximum 16.9671	
Mean 9.55402	SD 2.43348	Variance 5.9218

Naphthalene

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 91.7848	10% of values less than 96.0021	25% of values less than 103.976
50% of values less than 115.596	75% of values less than 130.271	90% of values less than 162.577
Minimum 79.5149s than 188.247	Maximum 245.342	
Mean 122.572	SD 28.6321	Variance 819.795

Trichloroethene (TCE)

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 3.09882	10% of values less than 3.27218	25% of values less than 3.71268
50% of values less than 4.42654	75% of values less than 5.28454	90% of values less than 6.0787
Minimum 2.84436s than 6.52209	Maximum 8.021	
Mean 4.5641	SD 1.08329	Variance 1.17351

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 6.11672	10% of values less than 6.77247	25% of values less than 8.70792
50% of values less than 11.5576	75% of values less than 15.017	90% of values less than 18.7813
Minimum 4.27297s than 21.2273	Maximum 32.2162	
Mean 12.3245	SD 4.80908	Variance 23.1272

EC10-EC12 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 91.7848	10% of values less than 96.0021	25% of values less than 103.976
50% of values less than 115.596	75% of values less than 130.271	90% of values less than 162.577
Minimum 79.5149s than 188.247	Maximum 245.342	
Mean 122.572	SD 28.6321	Variance 819.795

EC12-EC16 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 181.493	10% of values less than 189.927	25% of values less than 205.851
50% of values less than 228.952	75% of values less than 257.763	90% of values less than 322.387
Minimum 156.949s than 373.562	Maximum 487.358	
Mean 242.77	SD 56.9768	Variance 3246.35

EC16-EC21 Aromatics

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.95605	10% of values less than 2.007	25% of values less than 2.10307
50% of values less than 2.24738	75% of values less than 2.57115	90% of values less than 2.96302
Minimum 1.83722s than 3.13676	Maximum 3.68326	
Mean 2.37348	SD 0.37474	Variance 0.14043

Retarded Travel Time to Naphthalene Receptor [years]

05% of values less than 576.21	10% of values less than 603.196	25% of values less than 653.998
50% of values less than 727.799	75% of values less than 820.279	90% of values less than 1025.55
Minimum 497.66ss than 1189.42	Maximum 1552.23	
Mean 771.644	SD 181.695	Variance 33013.2

1,2-Dichloroethene (1,2-DCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 1.07715E-007	10% of values less than 2.31881E-007	25% of values less than 6.31833E-007
50% of values less than 2.70676E-006	75% of values less than 9.30298E-006	90% of values less than 1.70854E-005
Minimum 1.72799E-009 2.1118E-005	Maximum 4.37714E-005	
Mean 6.02935E-006	SD 7.40076E-006	Variance 5.47712E-011

Naphthalene

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 8.67118E-013	10% of values less than 4.5669E-012	25% of values less than 1.09143E-010
50% of values less than 3.13182E-009	75% of values less than 3.6454E-008	90% of values less than 1.45644E-007
Minimum 1.578E-017an 2.32397E-007	Maximum 1.05232E-006	
Mean 4.5303E-008	SD 1.09062E-007	Variance 1.18946E-014

Trichloroethene (TCE)

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 3.54746E-007	10% of values less than 2.35566E-006	25% of values less than 6.41017E-005
50% of values less than 0.00129086	75% of values less than 0.0102233	90% of values less than 0.0309885
Minimum 3.85795E-012 0.0509199	Maximum 0.219178	
Mean 0.0106718	SD 0.0237865	Variance 0.000565798

EC10-EC12 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 6.70575E-012	10% of values less than 4.11062E-011	25% of values less than 8.9615E-010
50% of values less than 2.11127E-008	75% of values less than 2.4222E-007	90% of values less than 9.711E-007
Minimum 5.09272E-017 1.85305E-006	Maximum 7.67129E-006	
Mean 3.48054E-007	SD 8.50599E-007	Variance 7.23519E-013

EC12-EC16 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0.000231063	10% of values less than 0.000398697	25% of values less than 0.000906741
50% of values less than 0.00179911	75% of values less than 0.00354296	90% of values less than 0.00523546
Minimum 1.28893E-005 0.00629475	Maximum 0.0101274	
Mean 0.00241158	SD 0.00193516	Variance 3.74485E-006

EC16-EC21 Aromatics

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 7.03594E-008
50% of values less than 4.09908E-007	75% of values less than 1.50965E-006	90% of values less than 3.7787E-006
Minimum 0.es less than 5.47641E-006	Maximum 2.02196E-005	
Mean 1.25792E-006	SD 2.07308E-006	Variance 4.29768E-012

1,2-Dichloroethene (1,2-DCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 3.22553	10% of values less than 3.46737	25% of values less than 4.2656
50% of values less than 5.26853	75% of values less than 6.2378	90% of values less than 7.01593
Minimum 2.91648s than 7.44753	Maximum 9.2427	
Mean 5.27119	SD 1.30385	Variance 1.70001

Retarded Travel Time to DCE Receptor [years]

05% of values less than 5.76976	10% of values less than 6.18171	25% of values less than 7.62456
50% of values less than 9.53997	75% of values less than 11.234	90% of values less than 12.6307
Minimum 5.10385s than 13.5434	Maximum 16.9503	
Mean 9.54181	SD 2.43233	Variance 5.91625

Naphthalene

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor [years]

05% of values less than 91.521	10% of values less than 95.7479	25% of values less than 103.718
50% of values less than 115.311	75% of values less than 129.93	90% of values less than 162.162
Minimum 79.2993s than 187.783	Maximum 244.687	
Mean 122.25	SD 28.5604	Variance 815.699

Trichloroethene (TCE)

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 3.09268	10% of values less than 3.26641	25% of values less than 3.70674
50% of values less than 4.42058	75% of values less than 5.27885	90% of values less than 6.06907
Minimum 2.83859s than 6.51319	Maximum 8.01191	
Mean 4.55735	SD 1.0827	Variance 1.17225

Retarded Travel Time to DCE Receptor [years]

05% of values less than 6.10453	10% of values less than 6.76103	25% of values less than 8.69119
50% of values less than 11.5401	75% of values less than 14.998	90% of values less than 18.7569
Minimum 4.26463s than 21.2072	Maximum 32.1763	
Mean 12.3061	SD 4.8034	Variance 23.0726

EC10-EC12 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor [years]

05% of values less than 91.521	10% of values less than 95.7479	25% of values less than 103.718
50% of values less than 115.311	75% of values less than 129.93	90% of values less than 162.162
Minimum 79.2993s than 187.783	Maximum 244.687	
Mean 122.25	SD 28.5604	Variance 815.699

EC12-EC16 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor [years]

05% of values less than 180.971	10% of values less than 189.424	25% of values less than 205.284
50% of values less than 228.38	75% of values less than 257.08	90% of values less than 321.564
Minimum 156.524s than 372.585	Maximum 486.058	
Mean 242.132	SD 56.8342	Variance 3230.12

EC16-EC21 Aromatics

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.95047	10% of values less than 2.00124	25% of values less than 2.0976
50% of values less than 2.24162	75% of values less than 2.56424	90% of values less than 2.95516
Minimum 1.83197s than 3.12906	Maximum 3.67417	
Mean 2.36724	SD 0.373871	Variance 0.13978

Retarded Travel Time to DCE Receptor [years]

05% of values less than 574.554	10% of values less than 601.599	25% of values less than 652.348
50% of values less than 725.99	75% of values less than 818.105	90% of values less than 1022.93
Minimum 496.311s than 1186.05	Maximum 1548.09	
Mean 769.616	SD 181.241	Variance 32848.1

1,2-Dichloroethene (1,2-DCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 1.53696E-007	10% of values less than 3.45242E-007	25% of values less than 9.18621E-007
50% of values less than 3.89771E-006	75% of values less than 1.39842E-005	90% of values less than 2.47707E-005
Minimum 2.12925E-009 3.22835E-005	Maximum 5.80581E-005	
Mean 8.90667E-006	SD 1.08164E-005	Variance 1.16994E-010

Naphthalene

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 3.48079E-013	10% of values less than 1.97874E-012	25% of values less than 4.03265E-011
50% of values less than 1.17636E-009	75% of values less than 1.36891E-008	90% of values less than 5.55414E-008
Minimum 4.457E-018an 9.3847E-008	Maximum 5.22822E-007	
Mean 1.85566E-008	SD 4.68886E-008	Variance 2.19854E-015

Trichloroethene (TCE)

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 9.15035E-007	10% of values less than 4.94915E-006	25% of values less than 0.000121743
50% of values less than 0.00194278	75% of values less than 0.0150543	90% of values less than 0.0458323
Minimum 7.27269E-012 0.0795284	Maximum 0.301881	
Mean 0.0157227	SD 0.0341781	Variance 0.00116814

EC10-EC12 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 3.13314E-012	10% of values less than 1.7193E-011	25% of values less than 3.0864E-010
50% of values less than 8.57684E-009	75% of values less than 9.3305E-008	90% of values less than 3.82055E-007
Minimum 2.59897E-017 7.9274E-007	Maximum 4.38705E-006	
Mean 1.45376E-007	SD 3.85769E-007	Variance 1.48817E-013

EC12-EC16 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 8.2346E-005	10% of values less than 0.000150621	25% of values less than 0.00033996
50% of values less than 0.00070275	75% of values less than 0.00142866	90% of values less than 0.00226037
Minimum 6.25784E-006 0.00273183	Maximum 0.00553569	
Mean 0.000997253	SD 0.00087389	Variance 7.63684E-007

EC16-EC21 Aromatics

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 2.65311E-008
50% of values less than 1.53115E-007	75% of values less than 5.76562E-007	90% of values less than 1.43969E-006
Minimum 0.es less than 2.21459E-006	Maximum 7.25604E-006	
Mean 5.01003E-007	SD 8.5178E-007	Variance 7.25529E-013

Aquifer Flow [m³/yr]

Boiler House Aromatics

05% of values less than 11054.3	10% of values less than 12683.1	25% of values less than 17620
50% of values less than 19849.3	75% of values less than 21549.1	90% of values less than 21694.5
Minimum 9578.6ss than 21921.7	Maximum 22070.6	
Mean 18816.6	SD 3341.75	Variance 1.11673E+007

ETP Aromatics

05% of values less than 6613.51	10% of values less than 7587.96	25% of values less than 10541.6
50% of values less than 11875.3	75% of values less than 12892.3	90% of values less than 12979.2
Minimum 5730.63s than 13115.2	Maximum 13204.3	
Mean 11257.5	SD 1999.28	Variance 3.99713E+006

Tank Farm Aromatics

05% of values less than 14361.7	10% of values less than 16477.7	25% of values less than 22891.7
50% of values less than 25788	75% of values less than 27996.5	90% of values less than 28185.2
Minimum 12444.4s than 28480.4	Maximum 28674	
Mean 24446.4	SD 4341.57	Variance 1.88492E+007

DCE Tank Farm Lagoon

05% of values less than 6156.44	10% of values less than 7063.54	25% of values less than 9813.05
50% of values less than 11054.6	75% of values less than 12001.3	90% of values less than 12082.2
Minimum 5334.58s than 12208.8	Maximum 12291.7	
Mean 10479.5	SD 1861.11	Variance 3.46372E+006

TCE Tank Farm Lagoon

05% of values less than 6216.68	10% of values less than 7132.66	25% of values less than 9909.07
50% of values less than 11162.7	75% of values less than 12118.7	90% of values less than 12200.4
Minimum 5386.77s than 12328.2	Maximum 12412	
Mean 10582	SD 1879.32	Variance 3.53184E+006

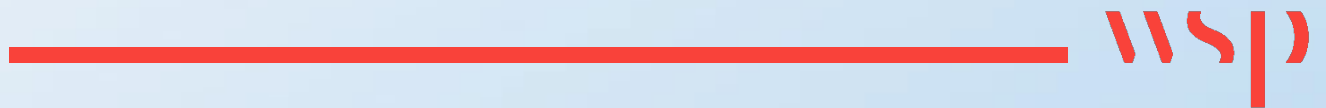
Aquifer Flow [m³/yr]

TCE Waste Chip Plant

05% of values less than 6165.14	10% of values less than 7073.52	25% of values less than 9826.91
50% of values less than 11070.2	75% of values less than 12018.2	90% of values less than 12099.3
Minimum 5342.11s than 12226	Maximum 12309.1	
Mean 10494.3	SD 1863.74	Variance 3.47352E+006

Appendix G

SENSITIVITY MODEL INPUTS AND RESULTS



Appendix G.1

SENSITIVITY MODEL INPUT PARAMETER CHANGES



Source Term Sensitivity Model – Groundwater Model Only

Input Value	Unit	Contaminant	Input	Justification
Groundwater source concentration – Tank Farm	mg/l	>EC10-EC12 Aromatics	Single(0.06715)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 67.15 ug/l.
		>EC12-EC16 Aromatics	Single(0.1765)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 176.5 ug/l.
		>EC16-EC21 Aromatics	Single(0.1325)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 132.5 ug/l.
Groundwater source concentration – Effluent Treatment Plant	mg/l	>EC10-EC12 Aromatics	Single(0.02475)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 24.75 ug/l.
		>EC12-EC16 Aromatics	Single(0.12)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 120 ug/l.
		>EC16-EC21 Aromatics	Single(0.365)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 365 ug/l.
Groundwater source concentration – Boiler House	mg/l	>EC10-EC12 Aromatics	Single(0.06395)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 63.95 ug/l.
		Naphthalene	Single(0.001)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 1 ug/l.
		>EC12-EC16 Aromatics	Single(0.2035)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 203.5 ug/l.
		>EC16-EC21 Aromatics	Single(0.65)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 650 ug/l.
		Lead	Single(0.009105)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 9.105 ug/l.
Groundwater source concentration – Main Factory Building	mg/l	Vinyl Chloride	Single(0.015525)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 15.525 ug/l.
		Lead	Single(0.00986)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 9.86 ug/l.
Groundwater source concentration – Tank Farm Lagoon area	mg/l	TCE	Single(0.0264)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 26.4 ug/l.
		Cis-1,2-DCE	Single(0.1864)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 186.4 ug/l.
Groundwater source concentration – Waste/oil store and Chip Plants area	mg/l	TCE	Single(0.02555)	95 th percentile concentration over last year of groundwater monitoring in the selected source area calculated as 25.55 ug/l.

Climate Change Sensitivity Models

Sensitivity Model	Input Values	Unit	Input	Justification
	Unsaturated Pathway (soil model only)			
B1 – higher groundwater levels reducing unsaturated pathway length	Thickness	m	Uniform(0.001,1.5)	Reduced unsaturated zone thickness from a maximum of 2 m to a maximum of 1.5 m. Represents higher predicted future groundwater levels of up to 0.5 m (average near future L50 model value).
	Vertical dispersivity	m	Uniform(0.0001,0.15)	Estimate. Set to 10% of unsaturated zone thickness range
	Infiltration (soil model only)			
B2 – higher infiltration due to increased groundwater recharge	Infiltration (source area full concreted)	mm/yr	Uniform(128,154)	Increased infiltration to represent increased rainfall. Original model values plus up to 0.04 mm per day increase (long-term projection for increase over the year ranges from -0.4 mm/d to +0.6 mm/d, average 0.04). Increases original infiltration estimate to about 140 mm/yr. Range plus and minus 10%.
	Infiltration (source area partially concreted)	mm/yr	Uniform(288,352)	Increased infiltration to represent increased rainfall. Original model values plus up to 0.04 mm per day increase (long-term projection for increase over the year ranges from -0.4 mm/d to +0.6 mm/d, average 0.04). Increases original infiltration estimate to about 320 mm/yr. Range plus and minus 10%.

Appendix G.2

SENSITIVITY MODEL TABULATED RESULTS



APPENDIX G – SENSITIVITY MODEL RESULTS

Groundwater Model – Source Concentration Increase

Source and Location	WQS (mg/l)	Base Model Results (mg/l)	Sensitivity Model. Total source, 95th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point
>EC10-EC12 aromatics - Boiler House	0.09	0.00030	0.00093	no
>EC12-EC16 aromatics - Boiler House	0.09	0.036	0.089	no
>EC16-EC21 aromatics - Boiler House	0.09	0.0060	0.049	no
Naphthalene - Boiler House	0.002	3.73E-13	2.69E-13	no
Lead - Boiler House	0.01	0.00012	0.0058	no
>EC10-EC12 aromatics - Effluent Treatment Plant	0.09	0.00014	0.00067	no
>EC12-EC16 aromatics - Effluent Treatment Plant	0.09	0.016	0.052	no
>EC16-EC21 aromatics - Effluent Treatment Plant	0.09	0.0074	0.034	no
>EC10-EC12 aromatics - Tank Farm	0.09	0.00034	0.0016	no
>EC12-EC16 aromatics - Tank Farm	0.09	0.014	0.074	no
>EC16-EC21 aromatics - Tank Farm	0.09	0.0029	0.011	no
TCE - Tank Farm Lagoons	0.01	0.0098	0.026	no

Source and Location	WQS (mg/l)	Base Model Results (mg/l)	Sensitivity Model. Total source, 95th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point
cis-1,2-DCE -Tank Farm Lagoons	0.05	4.95E-06	1.99E-05	no
TCE Waste/oil store and Chip Plant area	0.01	0.0091	0.026	no
VC - Main Factory Building	0.0005	0.0062	0.016	yes
Lead - Main Factory Building	0.01	0.0020	0.0061	no

Soils Model – Unsaturated Zone Decrease

Source and Location	WQS (mg/l)	Model Receptor	Base Model Results (mg/l)	Sensitivity Model. 95th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point
>EC10-EC12 aromatics - Boiler House	0.09	Boiler House	0.66	0.66	yes
>EC12-EC16 aromatics - Boiler House	0.09	Boiler House	0.55	0.53	yes
>EC16-EC21 aromatics - Boiler House	0.09	Boiler House	0.051	0.049	no
Naphthalene - Boiler House	0.002	Naphthalene	2.32E-07	3.23E-07	no
>EC10-EC12 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.038	0.040	no
>EC12-EC16 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.12	0.13	yes
>EC16-EC21 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.011	0.012	no
>EC10-EC12 aromatics - Tank Farm	0.09	Tank Farm	0.034	0.032	no
>EC12-EC16 aromatics - Tank Farm	0.09	Tank Farm	0.10	0.10	yes
>EC16-EC21 aromatics - Tank Farm	0.09	Tank Farm	0.014	0.013	no
TCE - Tank Farm Lagoons	0.01	TCE (Tank Farm Lagoons)	2.2	2.2	yes
cis-1,2-DCE -Tank Farm Lagoons	0.05	DCE	3.23E-05	3.65E-05	no
TCE Waste/oil store and Chip Plant area	0.01	TCE (Waste Chip Plant)	0.13	0.12	yes

Soils Model – Infiltration Rate Increase

Source and Location	WQS (mg/l)	Model Receptor	Base Model Results (mg/l)	Sensitivity Model. 95th percentile predicted concentration at compliance point (mg/l)	Target Concentration exceeded at compliance point
>EC10-EC12 aromatics - Boiler House	0.09	Boiler House	0.66	0.64	yes
>EC12-EC16 aromatics - Boiler House	0.09	Boiler House	0.55	0.56	yes
>EC16-EC21 aromatics - Boiler House	0.09	Boiler House	0.051	0.052	no
Naphthalene - Boiler House	0.002	Naphthalene	2.32E-07	3.51E-07	no
>EC10-EC12 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.038	0.056	no
>EC12-EC16 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.12	0.18	yes
>EC16-EC21 aromatics - Effluent Treatment Plant	0.09	Effluent Treatment Plant	0.011	0.017	no
>EC10-EC12 aromatics - Tank Farm	0.09	Tank Farm	0.034	0.044	no
>EC12-EC16 aromatics - Tank Farm	0.09	Tank Farm	0.10	0.14	yes
>EC16-EC21 aromatics - Tank Farm	0.09	Tank Farm	0.014	0.019	no
TCE - Tank Farm Lagoons	0.01	TCE (Tank Farm Lagoons)	2.2	3.3	yes
cis-1,2-DCE -Tank Farm Lagoons	0.05	DCE	3.23E-05	5.38E-05	no
TCE Waste/oil store and Chip Plant area	0.01	TCE (Waste Chip Plant)	0.13	0.20	yes

Appendix G.3

SENSITIVITY MODEL A - INPUTS AND RESULTS



Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Project Details

Title: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Prepared By: WSP

Date: 2024-07-18 07:25:14

Client Name: Ford Motor Company

Comments:

Groundwater model - level 3a. Mean groundwater concentrations June 2022 to May 2023.

Consim version 2.05

Simulation Level

Level 3a

Simulation Parameters

Iterations 1001

Timeslices:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000

Water Quality Standard

User Defined

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

VC Main Factory Building

Source Inventory:

Vinyl Chloride

Aquifer Source Concentration [mg/l] SINGLE(0.015525)

Organic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

Boiler House

Source Inventory:

Naphthalene

Aquifer Source Concentration [mg/l] SINGLE(0.001)

Organic

EC12-EC16 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.2035)

Organic

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.65)

Organic

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.06395)

Organic

Source

ETP

Source Inventory:*EC12-EC16 Aromatics*

Aquifer Source Concentration [mg/l] SINGLE(0.12)

Organic

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.365)

Organic

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.02475)

Organic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

Tank Farm

Source Inventory:

EC12-EC16 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.1765)

Organic

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.1325)

Organic

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.06715)

Organic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

Tank Farm Lagoon CHCs

Source Inventory:

1,2-Dichloroethene (1,2-DCE)

Aquifer Source Concentration [mg/l] SINGLE(0.1864)

Organic

Trichloroethene (TCE)

Aquifer Source Concentration [mg/l] SINGLE(0.0264)

Organic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

TCE - waste/oil

Source Inventory:

Trichloroethene (TCE)

Aquifer Source Concentration [mg/l] SINGLE(0.02555)

Organic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

Lead Boiler House

Source Inventory:

Lead

Aquifer Source Concentration [mg/l] SINGLE(0.009105)

Inorganic

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

Source

Lead MFB core and store

Source Inventory:

Lead

Aquifer Source Concentration [mg/l] SINGLE(0.00986)

Inorganic

Aquifer Pathway

Thickness [m] UNIFORM(5,9)

Dry Bulk Density [g/cm³] UNIFORM(1.53,1.87)

Fraction of Organic Carbon [%] UNIFORM(0.21,0.26)

Mixing Zone Thickness [m] SINGLE(5)

Hydraulic Conductivity [m/s] UNIFORM(8e-005,0.0005)

Effective Porosity [fraction] UNIFORM(0.159,0.239)

Hydraulic Gradient UNIFORM(0.002,0.007)

Groundwater Flow Direction (degrees), 337.00

Longitudinal Dispersivity [m] SINGLE(5)

Lateral Dispersivity [m] SINGLE(1.5)

Contaminant Inventory*1,2-Dichloroethene (1,2-DCE)*

koc [ml/g] SINGLE(40)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(0.22,0.47)

Lead

Partition Coefficient [ml/g] UNIFORM(270,434.6)

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] SINGLE(1e+009)

Naphthalene

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(1.096,3.29)

Trichloroethene (TCE)

koc [ml/g] UNIFORM(18,152)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(0.27,2.74)

Vinyl Chloride

koc [ml/g] SINGLE(57)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(0.27,1.37)

EC12-EC16 Aromatics

koc [ml/g] SINGLE(5000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(17.6,34)

EC16-EC21 Aromatics

koc [ml/g] SINGLE(16000)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(17.6,34)

EC10-EC12 Aromatics

koc [ml/g] SINGLE(2500)

Calculate kd

Simulate Degradation in Dissolved and sorbed phases

Halflife [years] UNIFORM(1.096,3.29)

Receptor

VC Main Factory Building Receptor	X 293217.905126	Y 178399.920751
Lead MFB	X 293077.555500	Y 178417.764000
Boiler House Receptor	X 293500.591291	Y 178470.419894
ETP Receptor	X 293555.851416	Y 178350.650390
Tank Farm Receptor	X 293472.156384	Y 178266.904953
Tank Farm Lagoon CHCs Receptor	X 293415.780602	Y 178213.586321
TCE - waste/oil Receptor	X 293195.129531	Y 178110.170029
VC MFB 50m	X 293191.162800	Y 178442.696700
Boiler House 50m	X 293474.702800	Y 178513.195900
Lead MFB 50m	X 293077.555500	Y 178417.764000
BH Lead 50m	X 293491.978700	Y 178466.923100
Lead Boiler House Receptor	X 293517.867222	Y 178424.147066
Lead MFB core and store Receptor	X 293102.550441	Y 178375.216733
TCE waste oil 50m	X 293169.241000	Y 178152.946000
TF Lagoon CHC 50 m	X 293389.892100	Y 178256.362300
ETP 50m	X 293529.962900	Y 178393.426400
Tank Farm 50m	X 293446.267900	Y 178309.681000
DCE Receptor	X 293157.445942	Y 178755.326140
Naphthalene Receptor	X 293294.832914	Y 178833.812717

Input Correlations

porosity to K	1
K to i	-1

TF Lagoon CHC 50 m	X 293389.892100	Y 178256.362300
ETP 50m	X 293529.962900	Y 178393.426400
Tank Farm 50m	X 293446.267900	Y 178309.681000
DCE Receptor	X 293157.445942	Y 178755.326140
Naphthalene Receptor	X 293294.832914	Y 178833.812717

Input Correlations

porosity to K	1
K to i	-1

Source Inventory:

Vinyl Chloride

Aquifer Source Concentration [mg/l] SINGLE(0.015525)

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.0613768	10% of values less than 0.0928803	25% of values less than 0.178078
50% of values less than 0.282315	75% of values less than 0.402667	90% of values less than 0.478435
Minimum 0.00430216	Maximum 0.773675	
Mean 0.29019	SD 0.149284	Variance 0.0222859

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 0.132668	10% of values less than 0.201829	25% of values less than 0.385368
50% of values less than 0.616086	75% of values less than 0.864137	90% of values less than 1.03489
Minimum 0.0100302	Maximum 1.82883	
Mean 0.630904	SD 0.335559	Variance 0.1126

VC Main Factory Building - Vinyl Chloride

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0.00095446	10% of values less than 0.00349214	25% of values less than 0.015525
50% of values less than 0.015525	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 3.18141E-005 0.015525	Maximum 0.015525	
Mean 0.0139159	SD 0.00446373	Variance 1.99249E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.415935	10% of values less than 0.45985	25% of values less than 0.549451
50% of values less than 0.664522	75% of values less than 0.784143	90% of values less than 0.926327
Minimum 0.345767 than 1.02414	Maximum 1.385	
Mean 0.68488	SD 0.184386	Variance 0.0339982

Retarded Travel Time to Lead MFB years

05% of values less than 0.88593	10% of values less than 0.982851	25% of values less than 1.18841
50% of values less than 1.42892	75% of values less than 1.70973	90% of values less than 2.02452
Minimum 0.739573 than 2.33367	Maximum 3.2739	
Mean 1.48919	SD 0.441603	Variance 0.195013

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 2.52604E-016	10% of values less than 1.2761E-015	25% of values less than 7.17889E-014
50% of values less than 8.16554E-012	75% of values less than 6.71277E-010	90% of values less than 0.015525
Minimum 1.10305E-017 0.015525	Maximum 0.015525	
Mean 0.00170604	SD 0.00485791	Variance 2.35993E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0	10% of values less than 0.0164546	25% of values less than 0.0835324
50% of values less than 0.192051	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 344655	SD 475493	Variance 2.26094E+011

Retarded Travel Time to Boiler House Receptor years

05% of values less than 0	10% of values less than 0.0358935	25% of values less than 0.178509
50% of values less than 0.418906	75% of values less than 2.04309E+006	90% of values less than 2.28014E+006
Minimum 0.es less than 2.37518E+006	Maximum 2.613E+006	
Mean 748957	SD 1.03858E+006	Variance 1.07866E+012

VC Main Factory Building - Vinyl Chloride

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.015525	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 0.0es less than 0.015525	Maximum 0.015525	
Mean 0.0101742	SD 0.00738203	Variance 5.44944E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP Receptor years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Project: Ford Bridgend CWRA Groundwater Source Assessment

Project Number: 21476577

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TCE - waste/oil Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to VC MFB 50m [years]

05% of values less than 0.308749	10% of values less than 0.353402	25% of values less than 0.436359
50% of values less than 0.546768	75% of values less than 0.666553	90% of values less than 0.795291
Minimum 0.244715 than 0.875744	Maximum 1.20109	
Mean 0.56614	SD 0.171723	Variance 0.0294886

Retarded Travel Time to VC MFB 50m years

05% of values less than 0.659498	10% of values less than 0.755649	25% of values less than 0.953336
50% of values less than 1.18959	75% of values less than 1.45282	90% of values less than 1.72453
Minimum 0.530211 than 1.96804	Maximum 2.83916	
Mean 1.23098	SD 0.404014	Variance 0.163227

VC Main Factory Building - Vinyl Chloride

Concentration at VC MFB 50m [mg/l] - 1000 years

05% of values less than 8.29758E-005	10% of values less than 0.000178667	25% of values less than 0.00057726
50% of values less than 0.00236709	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 7.67085E-006 0.015525	Maximum 0.015525	
Mean 0.00592836	SD 0.00651517	Variance 4.24474E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Boiler House 50m [years]

05% of values less than 0.0814011	10% of values less than 0.113875	25% of values less than 0.198109
50% of values less than 0.30384	75% of values less than 0.424365	90% of values less than 0.502354
Minimum 0.02543821	Maximum 0.8074	
Mean 0.311964	SD 0.150624	Variance 0.0226877

Retarded Travel Time to Boiler House 50m years

05% of values less than 0.17836	10% of values less than 0.252794	25% of values less than 0.430453
50% of values less than 0.66322	75% of values less than 0.911627	90% of values less than 1.08173
Minimum 0.05586561	Maximum 1.90855	
Mean 0.678254	SD 0.339726	Variance 0.115414

VC Main Factory Building - Vinyl Chloride

Concentration at Boiler House 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0.015525
50% of values less than 0.015525	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 0.015525	Maximum 0.015525	
Mean 0.013059	SD 0.00567766	Variance 3.22358E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB 50m [years]

05% of values less than 0.415935	10% of values less than 0.45985	25% of values less than 0.549451
50% of values less than 0.664522	75% of values less than 0.784143	90% of values less than 0.926327
Minimum 0.345767 than 1.02414	Maximum 1.385	
Mean 0.68488	SD 0.184386	Variance 0.0339982

Retarded Travel Time to Lead MFB 50m years

05% of values less than 0.88593	10% of values less than 0.982851	25% of values less than 1.18841
50% of values less than 1.42892	75% of values less than 1.70973	90% of values less than 2.02452
Minimum 0.739573 than 2.33367	Maximum 3.2739	
Mean 1.48919	SD 0.441603	Variance 0.195013

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB 50m [mg/l] - 1000 years

05% of values less than 2.52604E-016	10% of values less than 1.2761E-015	25% of values less than 7.17889E-014
50% of values less than 8.16554E-012	75% of values less than 6.71277E-010	90% of values less than 0.015525
Minimum 1.10305E-017 0.015525	Maximum 0.015525	
Mean 0.00170604	SD 0.00485791	Variance 2.35993E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to BH Lead 50m [years]

05% of values less than 0	10% of values less than 0.0167121	25% of values less than 0.0834338
50% of values less than 0.190032	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 341658	SD 474503	Variance 2.25153E+011

Retarded Travel Time to BH Lead 50m years

05% of values less than 0	10% of values less than 0.0350998	25% of values less than 0.176284
50% of values less than 0.418019	75% of values less than 2.04264E+006	90% of values less than 2.28014E+006
Minimum 0.es less than 2.37518E+006	Maximum 2.613E+006	
Mean 742704	SD 1.03678E+006	Variance 1.07491E+012

VC Main Factory Building - Vinyl Chloride

Concentration at BH Lead 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0.015525	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 0.0es less than 0.015525	Maximum 0.015525	
Mean 0.0102208	SD 0.00736665	Variance 5.42676E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead Boiler House Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 951049	SD 215874	Variance 4.66014E+010

Retarded Travel Time to Lead Boiler House Receptor years

05% of values less than 1.80637E+006	10% of values less than 1.90787E+006	25% of values less than 2.01672E+006
50% of values less than 2.13883E+006	75% of values less than 2.27971E+006	90% of values less than 2.4063E+006
Minimum 0.es less than 2.47914E+006	Maximum 2.69094E+006	
Mean 2.06247E+006	SD 498043	Variance 2.48047E+011

VC Main Factory Building - Vinyl Chloride

Concentration at Lead Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.000000	Maximum 0.015525	
Mean 0.000759965	SD 0.00335144	Variance 1.12321E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Lead MFB core and store Receptor [years]

05% of values less than 0.172426	10% of values less than 0.214772	25% of values less than 0.295939
50% of values less than 0.405791	75% of values less than 0.522466	90% of values less than 0.615666
Minimum 0.115132 than 0.691848	Maximum 0.965251	
Mean 0.413877	SD 0.157948	Variance 0.0249476

Retarded Travel Time to Lead MFB core and store Receptor years

05% of values less than 0.370743	10% of values less than 0.460176	25% of values less than 0.641695
50% of values less than 0.873607	75% of values less than 1.12086	90% of values less than 1.33089
Minimum 0.247637 than 1.52438	Maximum 2.28168	
Mean 0.899871	SD 0.362317	Variance 0.131273

VC Main Factory Building - Vinyl Chloride

Concentration at Lead MFB core and store Receptor [mg/l] - 1000 years

05% of values less than 1.04215E-018	10% of values less than 8.16126E-017	25% of values less than 3.10628E-013
50% of values less than 0.015525	75% of values less than 0.015525	90% of values less than 0.015525
Minimum 0.es less than 0.015525	Maximum 0.015525	
Mean 0.009802	SD 0.00749353	Variance 5.6153E-005

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TCE waste oil 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE waste oil 50m years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TCE waste oil 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to TF Lagoon CHC 50 m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TF Lagoon CHC 50 m years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at TF Lagoon CHC 50 m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to ETP 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to ETP 50m years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at ETP 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Tank Farm 50m [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm 50m years

05% of values less than 1.90608E+006	10% of values less than 1.95177E+006	25% of values less than 2.03503E+006
50% of values less than 2.16035E+006	75% of values less than 2.28676E+006	90% of values less than 2.41571E+006
Minimum 1.79529E+0062.48042E+006	Maximum 2.69094E+006	
Mean 2.16939E+006	SD 173987	Variance 3.02714E+010

VC Main Factory Building - Vinyl Chloride

Concentration at Tank Farm 50m [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to DCE Receptor [years]

05% of values less than 1.77089	10% of values less than 1.82631	25% of values less than 1.93611
50% of values less than 2.10306	75% of values less than 2.44489	90% of values less than 2.81892
Minimum 1.66323s than 3.03447	Maximum 3.82096	
Mean 2.23294	SD 0.412837	Variance 0.170434

Retarded Travel Time to DCE Receptor years

05% of values less than 3.69756	10% of values less than 3.88902	25% of values less than 4.13339
50% of values less than 4.53051	75% of values less than 5.24485	90% of values less than 6.31265
Minimum 3.43847s than 7.14369	Maximum 9.5939	
Mean 4.85555	SD 1.07706	Variance 1.16006

VC Main Factory Building - Vinyl Chloride

Concentration at DCE Receptor [mg/l] - 1000 years

05% of values less than 4.80569E-007	10% of values less than 2.09857E-006	25% of values less than 2.02782E-005
50% of values less than 0.000118243	75% of values less than 0.00033371	90% of values less than 0.000607122
Minimum 7.38944E-010 0.000855095	Maximum 0.00135081	
Mean 0.000225134	SD 0.000273787	Variance 7.49593E-008

VC Main Factory Building - Vinyl Chloride

Unretarded Travel Time to Naphthalene Receptor [years]

05% of values less than 1.85988	10% of values less than 1.91787	25% of values less than 2.02509
50% of values less than 2.19345	75% of values less than 2.55857	90% of values less than 2.94455
Minimum 1.75074s than 3.17227	Maximum 3.9863	
Mean 2.33576	SD 0.429657	Variance 0.184605

Retarded Travel Time to Naphthalene Receptor years

05% of values less than 3.887	10% of values less than 4.07422	25% of values less than 4.32334
50% of values less than 4.73738	75% of values less than 5.47814	90% of values less than 6.59902
Minimum 3.61604s than 7.45118	Maximum 10.0209	
Mean 5.07916	SD 1.12267	Variance 1.26039

VC Main Factory Building - Vinyl Chloride

Concentration at Naphthalene Receptor [mg/l] - 1000 years

05% of values less than 6.16403E-013	10% of values less than 2.49486E-012	25% of values less than 3.22317E-011
50% of values less than 5.67239E-010	75% of values less than 7.00627E-009	90% of values less than 4.29745E-008
Minimum 1.03202E-015 1.00036E-007	Maximum 6.48798E-007	
Mean 1.93619E-008	SD 6.52835E-008	Variance 4.26193E-015

Source Inventory:

Naphthalene

Aquifer Source Concentration [mg/l] SINGLE(0.001)

EC12-EC16 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.2035)

EC16-EC21 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.65)

EC10-EC12 Aromatics

Aquifer Source Concentration [mg/l] SINGLE(0.06395)

Boiler House - Naphthalene

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.327374	10% of values less than 0.379184	25% of values less than 0.494421
50% of values less than 0.634446	75% of values less than 0.772954	90% of values less than 0.899157
Minimum 0.229146	Maximum 1.50212	
Mean 0.64249	SD 0.207251	Variance 0.042953

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 16.3011	10% of values less than 18.8925	25% of values less than 24.8897
50% of values less than 32.2124	75% of values less than 39.631	90% of values less than 49.0163
Minimum 11.3273s	Maximum 103.299	
Mean 33.7039	SD 12.818	Variance 164.3

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.327374	10% of values less than 0.379184	25% of values less than 0.494421
50% of values less than 0.634446	75% of values less than 0.772954	90% of values less than 0.899157
Minimum 0.229146	Maximum 1.50212	
Mean 0.64249	SD 0.207251	Variance 0.042953

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 32.302	10% of values less than 37.3753	25% of values less than 49.2839
50% of values less than 63.721	75% of values less than 78.4793	90% of values less than 97.062
Minimum 22.4011	Maximum 205.13	
Mean 66.7653	SD 25.4495	Variance 647.676

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.327374	10% of values less than 0.379184	25% of values less than 0.494421
50% of values less than 0.634446	75% of values less than 0.772954	90% of values less than 0.899157
Minimum 0.229146	Maximum 1.50212	
Mean 0.64249	SD 0.207251	Variance 0.042953

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 102.596	10% of values less than 118.7	25% of values less than 156.613
50% of values less than 202.46	75% of values less than 249.245	90% of values less than 308.693
Minimum 71.1257s	Maximum 653.187	
Mean 212.236	SD 81.0287	Variance 6565.66

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to VC Main Factory Building Receptor [years]

05% of values less than 0.327374	10% of values less than 0.379184	25% of values less than 0.494421
50% of values less than 0.634446	75% of values less than 0.772954	90% of values less than 0.899157
Minimum 0.229146	Maximum 1.50212	
Mean 0.64249	SD 0.207251	Variance 0.042953

Retarded Travel Time to VC Main Factory Building Receptor years

05% of values less than 16.3011	10% of values less than 18.8925	25% of values less than 24.8897
50% of values less than 32.2124	75% of values less than 39.631	90% of values less than 49.0163
Minimum 11.3273s	Maximum 103.299	
Mean 33.7039	SD 12.818	Variance 164.3

Boiler House - Naphthalene

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 6.93058E-024
Minimum 0.es less than 2.28708E-021	Maximum 4.22847E-018	
Mean 1.56563E-020	SD 1.84931E-019	Variance 3.41996E-038

Boiler House - EC12-EC16 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.08283E-017
Minimum 0.es less than 1.08636E-015	Maximum 5.63508E-013	
Mean 3.02565E-015	SD 2.88144E-014	Variance 8.30267E-028

Boiler House - EC16-EC21 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 9.52416E-019
Minimum 0.es less than 6.89582E-017	Maximum 8.22205E-014	
Mean 2.47245E-016	SD 3.20122E-015	Variance 1.02478E-029

Boiler House - EC10-EC12 Aromatics

Concentration at VC Main Factory Building Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 1.15444E-021
Minimum 0.es less than 1.86566E-019	Maximum 1.53721E-015	
Mean 2.48778E-018	SD 4.95067E-017	Variance 2.45092E-033

Boiler House - Naphthalene

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.679748	10% of values less than 0.734065	25% of values less than 0.863762
50% of values less than 1.02314	75% of values less than 1.15963	90% of values less than 1.34818
Minimum 0.571068 than 1.48425	Maximum 2.14304	
Mean 1.03718	SD 0.247034	Variance 0.0610256

Retarded Travel Time to Lead MFB years

05% of values less than 34.0186	10% of values less than 37.039	25% of values less than 43.3151
50% of values less than 50.7851	75% of values less than 61.5916	90% of values less than 75.6052
Minimum 26.9249s than 85.9787	Maximum 146.441	
Mean 54.4316	SD 16.8355	Variance 283.433

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.679748	10% of values less than 0.734065	25% of values less than 0.863762
50% of values less than 1.02314	75% of values less than 1.15963	90% of values less than 1.34818
Minimum 0.571068 than 1.48425	Maximum 2.14304	
Mean 1.03718	SD 0.247034	Variance 0.0610256

Retarded Travel Time to Lead MFB years

05% of values less than 67.2577	10% of values less than 73.3977	25% of values less than 85.8353
50% of values less than 100.56	75% of values less than 122.047	90% of values less than 149.965
Minimum 53.2472s than 170.532	Maximum 290.801	
Mean 107.826	SD 33.4606	Variance 1119.61

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.679748	10% of values less than 0.734065	25% of values less than 0.863762
50% of values less than 1.02314	75% of values less than 1.15963	90% of values less than 1.34818
Minimum 0.571068 than 1.48425	Maximum 2.14304	
Mean 1.03718	SD 0.247034	Variance 0.0610256

Retarded Travel Time to Lead MFB years

05% of values less than 213.424	10% of values less than 232.896	25% of values less than 272.673
50% of values less than 319.834	75% of values less than 387.983	90% of values less than 477.082
Minimum 169.065s than 542.565	Maximum 925.987	
Mean 342.761	SD 106.612	Variance 11366.2

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Lead MFB [years]

05% of values less than 0.679748	10% of values less than 0.734065	25% of values less than 0.863762
50% of values less than 1.02314	75% of values less than 1.15963	90% of values less than 1.34818
Minimum 0.571068 than 1.48425	Maximum 2.14304	
Mean 1.03718	SD 0.247034	Variance 0.0610256

Retarded Travel Time to Lead MFB years

05% of values less than 34.0186	10% of values less than 37.039	25% of values less than 43.3151
50% of values less than 50.7851	75% of values less than 61.5916	90% of values less than 75.6052
Minimum 26.9249s than 85.9787	Maximum 146.441	
Mean 54.4316	SD 16.8355	Variance 283.433

Boiler House - Naphthalene

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Lead MFB [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0900689	10% of values less than 0.138127	25% of values less than 0.246927
50% of values less than 0.392583	75% of values less than 0.523702	90% of values less than 0.623525
Minimum 0.0105521	Maximum 1.09237	
Mean 0.390162	SD 0.190556	Variance 0.0363117

Retarded Travel Time to Boiler House Receptor years

05% of values less than 4.28382	10% of values less than 6.94142	25% of values less than 12.5933
50% of values less than 19.7549	75% of values less than 27.1866	90% of values less than 33.4792
Minimum 0.605058	Maximum 75.7177	
Mean 20.4525	SD 10.9258	Variance 119.373

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0900689	10% of values less than 0.138127	25% of values less than 0.246927
50% of values less than 0.392583	75% of values less than 0.523702	90% of values less than 0.623525
Minimum 0.0105521	Maximum 1.09237	
Mean 0.390162	SD 0.190556	Variance 0.0363117

Retarded Travel Time to Boiler House Receptor years

05% of values less than 8.47713	10% of values less than 13.751	25% of values less than 24.908
50% of values less than 39.1234	75% of values less than 53.851	90% of values less than 66.2988
Minimum 1.19956	Maximum 150.36	
Mean 40.5149	SD 21.6716	Variance 469.66

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0900689	10% of values less than 0.138127	25% of values less than 0.246927
50% of values less than 0.392583	75% of values less than 0.523702	90% of values less than 0.623525
Minimum 0.0105521	Maximum 1.09237	
Mean 0.390162	SD 0.190556	Variance 0.0363117

Retarded Travel Time to Boiler House Receptor years

05% of values less than 26.9277	10% of values less than 43.6717	25% of values less than 79.0923
50% of values less than 124.524	75% of values less than 171.174	90% of values less than 210.698
Minimum 3.81539	Maximum 478.783	
Mean 128.789	SD 68.9537	Variance 4754.61

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Boiler House Receptor [years]

05% of values less than 0.0900689	10% of values less than 0.138127	25% of values less than 0.246927
50% of values less than 0.392583	75% of values less than 0.523702	90% of values less than 0.623525
Minimum 0.0105521	Maximum 1.09237	
Mean 0.390162	SD 0.190556	Variance 0.0363117

Retarded Travel Time to Boiler House Receptor years

05% of values less than 4.28382	10% of values less than 6.94142	25% of values less than 12.5933
50% of values less than 19.7549	75% of values less than 27.1866	90% of values less than 33.4792
Minimum 0.605058	Maximum 75.7177	
Mean 20.4525	SD 10.9258	Variance 119.373

Boiler House - Naphthalene

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.24337E-008	10% of values less than 6.60107E-008	25% of values less than 6.93216E-007
50% of values less than 6.77721E-006	75% of values less than 3.5113E-005	90% of values less than 0.000142532
Minimum 1.01495E-013 0.00025633	Maximum 0.001	
Mean 4.61341E-005	SD 0.000104466	Variance 1.09132E-008

Boiler House - EC12-EC16 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.0221848	10% of values less than 0.0285599	25% of values less than 0.0439433
50% of values less than 0.0667359	75% of values less than 0.101385	90% of values less than 0.134412
Minimum 0.00237931an 0.152145	Maximum 0.183931	
Mean 0.0747391	SD 0.0400369	Variance 0.00160295

Boiler House - EC16-EC21 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 0.00157116	10% of values less than 0.0031533	25% of values less than 0.0096391
50% of values less than 0.0296056	75% of values less than 0.0828592	90% of values less than 0.196769
Minimum 3.70085E-006 0.280882	Maximum 0.503236	
Mean 0.0689972	SD 0.0939881	Variance 0.00883376

Boiler House - EC10-EC12 Aromatics

Concentration at Boiler House Receptor [mg/l] - 1000 years

05% of values less than 1.31371E-006	10% of values less than 5.5989E-006	25% of values less than 5.44737E-005
50% of values less than 0.000405292	75% of values less than 0.00207148	90% of values less than 0.0083842
Minimum 3.8634E-012n 0.014564	Maximum 0.06395	
Mean 0.00287201	SD 0.0065485	Variance 4.28828E-005

Boiler House - Naphthalene

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 985015	SD 121553	Variance 1.47752E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 3.98687E+007	10% of values less than 4.24086E+007	25% of values less than 4.60755E+007
50% of values less than 5.17029E+007	75% of values less than 5.73403E+007	90% of values less than 6.29427E+007
Minimum 0.es less than 6.58746E+007	Maximum 7.51641E+007	
Mean 5.148E+007	SD 9.86877E+006	Variance 9.73927E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 985015	SD 121553	Variance 1.47752E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 7.87375E+007	10% of values less than 8.38172E+007	25% of values less than 9.1151E+007
50% of values less than 1.02406E+008	75% of values less than 1.13681E+008	90% of values less than 1.24885E+008
Minimum 0.es less than 1.30749E+008	Maximum 1.49328E+008	
Mean 1.01975E+008	SD 1.96595E+007	Variance 3.86497E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 985015	SD 121553	Variance 1.47752E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 2.4976E+008	10% of values less than 2.66015E+008	25% of values less than 2.89483E+008
50% of values less than 3.25499E+008	75% of values less than 3.61578E+008	90% of values less than 3.97433E+008
Minimum 0.es less than 4.16198E+008	Maximum 4.7565E+008	
Mean 3.24153E+008	SD 6.27396E+007	Variance 3.93626E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to ETP Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 0.es less than 1E+006	Maximum 1E+006	
Mean 985015	SD 121553	Variance 1.47752E+010

Retarded Travel Time to ETP Receptor years

05% of values less than 3.98687E+007	10% of values less than 4.24086E+007	25% of values less than 4.60755E+007
50% of values less than 5.17029E+007	75% of values less than 5.73403E+007	90% of values less than 6.29427E+007
Minimum 0.es less than 6.58746E+007	Maximum 7.51641E+007	
Mean 5.148E+007	SD 9.86877E+006	Variance 9.73927E+013

Boiler House - Naphthalene

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.001	
Mean 1.4985E-005	SD 0.000121553	Variance 1.47752E-008

Boiler House - EC12-EC16 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.2035	
Mean 0.00304945	SD 0.0247361	Variance 0.000611875

Boiler House - EC16-EC21 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.65	
Mean 0.00974026	SD 0.0790097	Variance 0.00624253

Boiler House - EC10-EC12 Aromatics

Concentration at ETP Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0.06395	
Mean 0.000958292	SD 0.00777334	Variance 6.04248E-005

Boiler House - Naphthalene

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 4.07404E+007	10% of values less than 4.27441E+007	25% of values less than 4.63962E+007
50% of values less than 5.18926E+007	75% of values less than 5.7437E+007	90% of values less than 6.30927E+007
Minimum 3.58812E+0076.59307E+007	Maximum 7.51641E+007	
Mean 5.22892E+007	SD 7.631E+006	Variance 5.82322E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 8.04808E+007	10% of values less than 8.44883E+007	25% of values less than 9.17924E+007
50% of values less than 1.02785E+008	75% of values less than 1.13874E+008	90% of values less than 1.25185E+008
Minimum 7.07624E+0071.30861E+008	Maximum 1.49328E+008	
Mean 1.03578E+008	SD 1.5262E+007	Variance 2.32929E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 2.55338E+008	10% of values less than 2.68163E+008	25% of values less than 2.91536E+008
50% of values less than 3.26712E+008	75% of values less than 3.62197E+008	90% of values less than 3.98393E+008
Minimum 2.2424E+008\ 4.16557E+008	Maximum 4.7565E+008	
Mean 3.29251E+008	SD 4.88384E+007	Variance 2.38519E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Receptor years

05% of values less than 4.07404E+007	10% of values less than 4.27441E+007	25% of values less than 4.63962E+007
50% of values less than 5.18926E+007	75% of values less than 5.7437E+007	90% of values less than 6.30927E+007
Minimum 3.58812E+0076.59307E+007	Maximum 7.51641E+007	
Mean 5.22892E+007	SD 7.631E+006	Variance 5.82322E+013

Boiler House - Naphthalene

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Tank Farm Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 4.07404E+007	10% of values less than 4.27441E+007	25% of values less than 4.63962E+007
50% of values less than 5.18926E+007	75% of values less than 5.7437E+007	90% of values less than 6.30927E+007
Minimum 3.58812E+0076.59307E+007	Maximum 7.51641E+007	
Mean 5.22892E+007	SD 7.631E+006	Variance 5.82322E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 8.04808E+007	10% of values less than 8.44883E+007	25% of values less than 9.17924E+007
50% of values less than 1.02785E+008	75% of values less than 1.13874E+008	90% of values less than 1.25185E+008
Minimum 7.07624E+0071.30861E+008	Maximum 1.49328E+008	
Mean 1.03578E+008	SD 1.5262E+007	Variance 2.32929E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 2.55338E+008	10% of values less than 2.68163E+008	25% of values less than 2.91536E+008
50% of values less than 3.26712E+008	75% of values less than 3.62197E+008	90% of values less than 3.98393E+008
Minimum 2.2424E+008; 4.16557E+008	Maximum 4.7565E+008	
Mean 3.29251E+008	SD 4.88384E+007	Variance 2.38519E+015

Boiler House - EC10-EC12 Aromatics

Unretarded Travel Time to Tank Farm Lagoon CHCs Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to Tank Farm Lagoon CHCs Receptor years

05% of values less than 4.07404E+007	10% of values less than 4.27441E+007	25% of values less than 4.63962E+007
50% of values less than 5.18926E+007	75% of values less than 5.7437E+007	90% of values less than 6.30927E+007
Minimum 3.58812E+0076.59307E+007	Maximum 7.51641E+007	
Mean 5.22892E+007	SD 7.631E+006	Variance 5.82322E+013

Boiler House - Naphthalene

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC12-EC16 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC16-EC21 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - EC10-EC12 Aromatics

Concentration at Tank Farm Lagoon CHCs Receptor [mg/l] - 1000 years

05% of values less than 0	10% of values less than 0	25% of values less than 0
50% of values less than 0	75% of values less than 0	90% of values less than 0
Minimum 0.es less than 0	Maximum 0	
Mean 0	SD 0	Variance 0

Boiler House - Naphthalene

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 4.07404E+007	10% of values less than 4.27441E+007	25% of values less than 4.63962E+007
50% of values less than 5.18926E+007	75% of values less than 5.7437E+007	90% of values less than 6.30927E+007
Minimum 3.58812E+0076.59307E+007	Maximum 7.51641E+007	
Mean 5.22892E+007	SD 7.631E+006	Variance 5.82322E+013

Boiler House - EC12-EC16 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 8.04808E+007	10% of values less than 8.44883E+007	25% of values less than 9.17924E+007
50% of values less than 1.02785E+008	75% of values less than 1.13874E+008	90% of values less than 1.25185E+008
Minimum 7.07624E+0071.30861E+008	Maximum 1.49328E+008	
Mean 1.03578E+008	SD 1.5262E+007	Variance 2.32929E+014

Boiler House - EC16-EC21 Aromatics

Unretarded Travel Time to TCE - waste/oil Receptor [years]

05% of values less than 1E+006	10% of values less than 1E+006	25% of values less than 1E+006
50% of values less than 1E+006	75% of values less than 1E+006	90% of values less than 1E+006
Minimum 1E+006s than 1E+006	Maximum 1E+006	
Mean 1E+006	SD 0	Variance 0

Retarded Travel Time to TCE - waste/oil Receptor years

05% of values less than 2.55338E+008	10% of values less than 2.68163E+008	25% of values less than 2.91536E+008
50% of values less than 3.26712E+008	75% of values less than 3.62197E+008	90% of values less than 3.98393E+008
Minimum 2.2424E+008\ 4.16557E+008	Maximum 4.7565E+008	
Mean 3.29251E+008	SD 4.88384E+007	Variance 2.38519E+015