

**Environmental Impact Statement
Risk Assessment Development for Area IV
Santa Susana Field Laboratory
Ventura County, California**

July 2018



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Environmental Impact Statement Risk Assessment Development for Area IV Santa Susana Field Laboratory Ventura County, California

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Acronyms and Abbreviations

AOC	Administrative Order on Consent
B4064	Building 4064
BaP	benzo[a]pyrene
Boeing	The Boeing Company
CDM Smith	CDM Federal Programs Corporation
COC	contaminant of concern
DOE	United States Department of Energy
DTSC	Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
EQulS	Environmental Quality Information System
FAL	field action level
FEIS	Final Environmental Impact Statement for Remediation of Area IV of the Santa Susana Field Laboratory
GIS	geographic information system
HI	hazard index
HQ	hazard quotient
LUT	look-up table
m ²	square meters
MCPA	2-methyl-4-chlorophenoxyacetic acid
MDC	minimum detection concentration
mg/kg	milligrams per kilogram
mrem/year	millirem per year
MWH	MWH Americas, Inc.
NBZ	Northern Buffer Zone
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NCY	New Conservation Yard Drainage
ng/kg	nanograms per kilogram
OEHHA	Office of Environmental Health Hazard Assessment
OSWER	Office of Solid Waste and Emergency Response
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PRG	preliminary remediation goal
pCi/g	picocuries per gram
QC	quality control
RBSL	risk-based screening level
RESRAD	Residual Radioactivity Model
RfD	reference dose
RME	reasonable maximum exposure
RMHF	Radioactive Materials Handling Facility
%	percent
SRAM	Standardized Risk Assessment Methodology
SRE	Sodium Reactor Experiment
SSFL	Santa Susana Field Laboratory
TEQ	toxicity equivalent quotient

TEQ BAP	toxicity equivalent quotient benzo(a)pyrene
TEQ dioxin	toxicity equivalent quotient dioxin
TRV	toxicity reference value
UCL	upper confidence limit
µg/kg	micrograms per kilogram
USEPA	United States Environmental Protection Agency

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Section 1

Introduction

The Santa Susana Field Laboratory (SSFL) is in Ventura County, California, on 2,850 acres in the hills between the towns of Chatsworth and Simi Valley (see Figure 1-1 for a site map). The SSFL was developed as a remote site to test rocket engines and conduct nuclear research. Rockwell International's Canoga Park-based Rocketdyne Division began rocket engine testing in the Area I portion of SSFL in 1947. Rockwell created Atomics International in the early 1950s to conduct nuclear research in Area IV of SSFL. Past operations resulted in chemical and radiological releases that have impacted buildings, soil, and groundwater in Area IV. Numerous soil and building removal actions were conducted within Area IV by United States Department of Energy (DOE). In 1996, Rockwell International sold its aerospace and defense business, including Area IV of SSFL, to The Boeing Company (Boeing). No operations were conducted by DOE in the Northern Buffer Zone (NBZ).

In 2010, DOE entered the 2010 Administrative Order on Consent (AOC) with the California Department of Toxic Substances Control (DTSC) (DTSC 2010). The AOC changed the framework for the soils characterization and cleanup process for Area IV and NBZ. The AOC stipulated that the soils cleanup standard identified in a Look-up Table (LUT) would consider local background concentrations or, for chemicals without an established background concentration, a laboratory method reporting limit. Under the AOC, DTSC established background concentrations for all chemicals analyzed at the SSFL. Details of their development are described in the *Final Chemical Soil Background Study Report* (DTSC 2012). For chemicals without an established background concentration, a laboratory method reporting limit was identified in the LUT. The LUT values for chemicals were published by DTSC in June 2013.

The United States Environmental Protection Agency (USEPA) provided guidance to DTSC on the establishment of radionuclide LUT values. Following this guidance, DTSC published provisional radionuclide LUT values in January 2013. The AOC LUT values for radionuclides considered local background values or minimum detectable concentrations (MDCs).

The *Final Environmental Impact Statement for Remediation of Area IV of the Santa Susana Field Laboratory* (FEIS) (DOE 2018), provides a summary of previous cleanup actions and alternative soil cleanup standards for DOE actions. As outlined in the FEIS, DOE is responsible for the cleanup of soils in the 290 acres of Area IV and portions of 182-acre NBZ. The soil remediation alternatives discussed in the FEIS include:

- No Action Alternative
- Cleanup to AOC LUT Values Alternative
- Cleanup to Revised LUT Values Alternative
- Conservation of Natural Resources Alternative (Residential and Open Space Scenarios)

The No Action Alternative involves no soil removal to reduce chemical or radionuclide contamination and is used as the baseline to compare the results of the action alternatives.

Under the Cleanup to AOC LUT Values Alternative, the soil in Area IV and NBZ would be removed to meet chemical and radionuclide cleanup LUT values established in accordance with the 2010 AOC. Under the Cleanup to Revised LUT Values Alternative, soil would be removed to meet the risk-based screening levels (RBSLs) discussed in Section 2.4. For both these alternatives, the chemicals targeted include the chemicals of concern (COCs) identified in the Chemical Data Summary Report (CDSR) (CDM Smith 2017) and the radionuclides as described in USEPA's final soil investigation report (HGL 2012).

Implementation of the Conservation of Natural Resources Alternative would reduce risk to the public and the environment. This alternative would involve removal of soil posing risk while simultaneously conserving natural resources, including biological, cultural, and water resources, by leaving in place soil that does not pose a risk. To achieve this alternative, a soil cleanup alternative was evaluated based on the results of a risk assessment process outlined in the *Final Standardized Risk Assessment Methodology (SRAM) Revision 2 Addendum* (MWH Americas, Inc. [MWH] 2014) for chemically impacted soil. The Conservation of Natural Resources Alternative evaluated potential risks for nineteen 10,000 square meters (m²) representative exposure areas as described in Section 2.

The following sections present the approach used and the results of the risk evaluation conducted to assess potential risk to future on-site suburban residents, recreators, and ecological receptors associated with exposure to chemicals and radionuclides in surface soil for the selected exposure areas. This report consists of the following sections:

- Section 1: Introduction
- Section 2: Methodology for Risk Evaluation (describes methods and assumptions used in the analysis)
- Section 3: Risk Characterization (presents risk evaluation results)
- Section 4: Volume Estimates Based on FEIS Alternatives (summarizes volume calculations and estimates for all alternatives)
- Section 5: Risk Evaluation Summary (summarizes the risk evaluation and discusses uncertainties)
- Section 6: References (provides references used in the document)

Section 2

Methodology for Risk Evaluation

2.1 Overview

CDM Smith performed risk evaluations to evaluate potential threats to human health and the environment associated with three risk-based alternatives for Area IV and NBZ at the SSFL. This risk evaluation quantified the reduction of risk to public health and the environment as a result of implementing each alternative. The Boeing Company (the land owner) has entered a conservation easement for Area IV and NBZ, restricting all future use as open space/recreational (Ventura County 2018). However, because the FEIS addresses a residential cleanup scenario, the risk assessments conducted to support the FEIS include both a recreational and ecological scenario (Open Space Scenario) and a more conservative suburban residential and ecological land use scenario (Residential Scenario).

The remedial action alternatives evaluated for contaminated soil in this analysis include:

- No Action Alternative
- Cleanup to AOC LUT Values Alternative
- Cleanup to Revised LUT Values Alternative
- Conservation of Natural Resources Alternative (i.e., cleanup to acceptable cancer risk and non-cancer hazards for both chemicals and radionuclides) under both a Residential Scenario and an Open Space Scenario

This evaluation estimates soil removal for Area IV and NBZ based on extrapolation from 19 exposure areas within Area IV and NBZ, which were selected because they reflect the higher concentrations of chemical and radionuclide contamination resulting from past operations. These 19 locations were selected based on the observed magnitude of exceedances of RBSLs for chemicals and preliminary remediation goals (PRGs) for radionuclides.

2.2 Objective

A primary objective of the risk assessment evaluations was to provide information to support risk management decisions. As described in the AOC, the remedial action at Area IV and NBZ will be conducted in accordance with Chapter 6.8 of Division 20 of the California Health and Safety Code, including Section 25359.20, which requires that any response action executed at SSFL be based upon the provisions of Section 25356.1.5. That section requires that any human health or ecological risk assessment prepared in conjunction with a response action be based upon Subpart E of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) 40 CFR 300.400 et seq. and the policies, guidelines, and practices of USEPA.

In this analysis, cancer risks and non-cancer hazard indices were back-calculated for 19 exposure areas using RBSLs for suburban residents, recreators, ecological receptors, and exposure point

concentrations (EPCs) derived from the data collected within each of the separate exposure areas. This evaluation is consistent with the risk assessment process outlined in the SRAM (MWH 2014) for chemically impacted soil, which in turn is based on guidelines developed by USEPA for Superfund sites. The SRAM established the methodology to be used to determine human health risks due to exposure to chemicals present in various media at the SSFL. Radionuclides are assessed in the same basic manner; however, screening levels comparable to RBSLs were estimated using DOE's RESidual RADioactivity (RESRAD) ONSITE model.

For each exposure area, risk calculations were performed individually for each COC, and risk values were summed to determine the total cumulative risk value. Cumulative risk and hazards for each exposure area were then compared with acceptable cancer risk ranges and the non-cancer target threshold specified by USEPA to provide input into risk management decisions. As outlined in the Office of Solid Waste and Emergency Response (OSWER) directive (EPA 1991b), incremental cancer risks to an individual in the range of 1×10^{-4} (one cancer in an exposed population of 10,000) to 1×10^{-6} (one cancer in an exposed population of one million) are generally considered acceptable by USEPA (1991b). For non-cancer hazards, the USEPA target hazard index (HI) of 1 was used.

The steps conducted for this risk analysis include (1) identification of exposure areas (Section 2.3), (2) selection of COCs (Section 2.5), (3) estimation of EPCs (Sections 3.2 and 3.3), (4) estimation of cancer risks and non-cancer hazard indices (Section 3), and (5) determination of areas where cleanup would be needed to produce acceptable area-averaged cancer risk and non-cancer hazards for both chemicals and radionuclides (Section 4). These steps are described in the following sections. Several of the steps (e.g., exposure assessment and toxicity assessment) conducted in a traditional risk assessment were performed in the SRAM and are not presented in this analysis.

2.3 Identification of Representative Exposure Areas

Figure 2-1 shows the relative locations of the 19 selected exposure areas within Area IV and NBZ. These 19 exposure areas were selected to be representative of Area IV because they had the following characteristics: the presence of radionuclide contamination, a history of prior cleanup actions, a demonstrated range of chemicals that is characteristic of Area IV operations, and localized hotspots (locations with concentrations exceeding 10 times RBSL values). These exposure areas reflected locations with relatively higher soil concentrations compared with soil contamination in Area IV overall. For this analysis, receptors are assumed to be exposed to contaminants in surface soil (i.e., 0 to 2.5 feet below ground surface) and subsurface soil (to 5 feet below ground surface).

Additional factors that influenced the selection of these exposure areas included the spatial distribution of soil samples containing concentrations exceeding AOC LUTs, the historical uses of the areas, and site features (e.g., drainages) considerations. An additional criterion for selection of an exposure area was the availability of a dataset that (1) is representative of the exposure area's current condition and (2) contains a sufficient number of samples for chemicals and radionuclides that is adequate for statistical evaluation (i.e., a minimum of 20 samples each). Finally, the exposure areas selected for evaluation are representative of soil contamination in other operational areas; thus, the risk characterization for these areas can be extrapolated to

other areas of the site that are equally or less contaminated. The 19 exposure areas were selected mainly based on exceedances of 10 times RBSL values, so risks and hazards at the rest of the site are expected to be less than the 19 exposure areas.

The largest contiguous area where soil contains radionuclides at concentrations above LUT values is found at the former Radioactive Materials Handling Facility (RMHF). Two sources of the radionuclides, largely strontium-90, are the former leach field and runoff from the RMHF. In 1978, the leach field and some bedrock were excavated and removed, but strontium-90 remains in the underlying rock and adjacent soils, particularly to the west of the leach field. Other areas where radioactive constituents in soil exceed the radionuclide LUT values include the Sodium Reactor Experiment (SRE) area northern drainage pathway that received runoff from former liquid hold-up tanks, the Building 4064 and New Conservation Yard Drainage (B4064/NCY) area and areas downslope of B4064, and 17th Street, including along the drainage pathway from the former Process Development Unit to the former pond. The 17th Street pond was partially excavated in 1979, but soil radionuclide activity above background is present above LUT values. These four areas lie within seven 10,000 m² grids (see Figure 2-1).

Twelve additional areas were selected based on the occurrence of chemical hotspots. For the purposes of this evaluation, a chemical hotspot is defined as a soil sampling location that has a contaminant concentration greater than 10 times a residential, recreational, or ecological RBSL. All 19 exposure areas selected based on these criteria included the following 10,000 m² grids (Figure 2-1):

- I13 (RMHF)
- H15 (SRE)
- M14 (17th Street Pond)
- I17 (B4064/NCY Northwest)
- I18 (B4064/NCY Northeast)
- J17 (B4064/NCY Southwest)
- J18 (B4064/NCY Southeast)
- H14 (SRE)
- H19 (NCY)
- N13 (17th Street Pond)
- O10 (Building 4055)
- F18 (Old Conservation Yard)
- G17 (SRE Drainage)
- H17 (Old Conservation Yard)

- I14 (RMHF)
- N10 (Sodium Pump Test Facility)
- O6 (Former Sodium Disposal Facility)
- P6 (Empire State Atomic Development Authority)
- P11 (DOE Leach Field 3)

As shown in Figure 4-3, chemicals were reported in soil samples in these 19 exposure areas above RBSL values. The most frequently reported chemicals above RBSLs include: polycyclic aromatic hydrocarbons (PAHs), dioxins, polychlorinated biphenyls (PCBs), hexavalent chromium, lead, and mercury.

Exposure areas for residential use can vary in size depending on the location of the site and local regulatory requirements. The size of each exposure area evaluated in this analysis is 10,000 m² or about 2.5 acres. The 10,000 m² area is the default exposure area used in the RESRAD model to evaluate residential exposures to radionuclides and was considered appropriate to assess chemical and radionuclide exposures for suburban residents in Area IV and NBZ. This lot size is also consistent with current nearby suburban residential land use, where residents own and maintain horses on their property. Consideration of lot-size exposure areas is generally adequate to evaluate long-term chronic health risks. Exposure is assumed to be relatively consistent across the residential lot, it is not necessary to investigate concentration trends at a property below the scale of the residential lot. It is important to note that although the final land use for the site has not yet been determined, it is more likely to be recreational open space.

Exposure areas for recreators and ecological receptors were assumed to be equal to the residential exposure areas, recognizing that it is unlikely a recreator will spend all recreational time in one area and that ecological receptor home ranges may be greater than or less than the residential exposure area. The uncertainties associated with this assumption are discussed in Section 5.2.

2.4 Derivation of RBSLs

Chemical RBSL values were derived for human health (residents and recreators) and ecological receptors. The residential and recreational RBSLs were derived using the approach outlined in Section 2.4.1 and the ecological RBSLs were derived using the approach discussed in Section 2.4.2 below.

2.4.1 Derivation of Chemical Human Health-based RBSLs

Standard default USEPA exposure factors were used when available (USEPA 1991c). The RBSL considers exposure to adults and children and is based on incidental ingestion of and dermal contact with soil and inhalation of particulates and/or volatiles derived from soil. Soil RBSLs for chemicals were determined through a risk assessment evaluation presented in the SRAM (MWH 2014). The SRAM developed RBSLs based on several exposure scenarios. RBSLs are based on reasonable maximum exposure (RME) assumptions, which represent the highest possible exposure that can reasonably be expected to occur for each receptor. The RBSLs are chemical

concentrations in media of concern (e.g., soil) that correspond to fixed levels of risk (i.e., either one in one million [1×10^{-6}] cancer risk or a non-cancer hazard quotient [HQ] of 1). The RBSLs were derived using standardized equations combining exposure information with Office of Environmental Health Hazard Assessment (OEHHA) or USEPA toxicity data using the methods outlined in *USEPA Risk Assessment Guidance for Superfund: Volume I – Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals)* (USEPA 1991a). In most cases, a chemical may cause cancer and non-cancer (systemic) effects.

The lead RBSL was calculated differently. The RBSL for lead represents a soil lead concentration that would result in a total blood lead increase not to exceed 1 microgram per deciliter irrespective of background exposures for residents. Typically, in risk assessment, lead exposure is evaluated separately using lead models. However, for this analysis, a lead HQ was calculated from the RBSL and included in the non-carcinogen total HI since the residential RBSL for soil is based on chronic toxic effects other than cancer. Soil RBSLs for suburban residents and recreators are summarized in Table 2-1.

2.4.2 Derivation of Ecological RBSLs

The RBSLs for ecological receptors (terrestrial plants, soil invertebrates, birds, mammals) are provided in the SRAM (MWH 2014) based on a target HQ of one. For birds and mammals, a low toxicity reference value (TRV)-based RBSL and a high TRV-based RBSL are presented based on the lowest low and lowest high TRVs for upper trophic level receptors. For the purposes of this risk evaluation, the high TRV-based RBSL was selected.

In some cases, the high TRV-based RBSL value was less than the measured background concentration (e.g., lead). In other cases, the soil invertebrate RBSL was less than the measured background concentration (e.g., hexavalent chromium). For the ecological risk assessment, cleanup becomes unreasonable when the RBSL is less than the corresponding background value. Ecological RBSLs may be below LUT values because the former may have been developed under environmental conditions (e.g., soil type, pH, climate, and prevailing moisture conditions) different than those at the site and with the use of conservative toxicity information and exposure parameters. Because remediation of soil to below LUT values is impractical and unnecessary, the LUT value is the more relevant comparison criterion than the ecological RBSL in these cases. Because of this, this fourth step in the chemical COC determination compares maximum detected analyte concentrations in each of the exposure areas to their LUTs instead of ecological RBSLs when the ecological RBSL is below the LUT. It should be noted that this comparison can be overly conservative because the LUT values are local background concentrations or method detection limits. Because the LUT values are not based on toxicological thresholds, exceedance of a LUT value, while in conflict with the 2010 AOC, does not necessarily indicate that the exceedance would be harmful to ecological receptors. Soil RBSLs for ecological receptors are summarized in Table 2-1.

2.5 Selection of Chemicals and Radionuclides of Concern

After exposure areas were identified, COCs were selected for each exposure area. COCs in soils for the SSFL site are site-related chemicals or radionuclides that exist at concentrations above either the naturally occurring background or risk-determined levels above which a chemical or radionuclide poses a threat to human health or the environment. Identification of a chemical or

radionuclide as a COC does not indicate that a health risk exists. Instead, identification as a COC indicates that additional analysis via quantitative risk assessment may be warranted.

The selection of COCs starts with a compilation of all analytical data for soils obtained through all sampling events and maintained in the Area IV Environmental Quality Information System (EQuIS) database. All chemical and radionuclide soil samples from all available depth ranges within each area were compiled for each exposure area for evaluation to retain COCs that may be present at depth and not at the surface for risk evaluation. The COC selection processes for chemicals and radionuclides differ and are explained in detail below.

The determination of chemical COCs is conducted in a multistep process, including an evaluation of frequency of detection, comparison to LUT values (i.e., background or detection limit values), and comparison to RBSLs. This process is illustrated in Figure 2-2 and discussed in detail in the following sections.

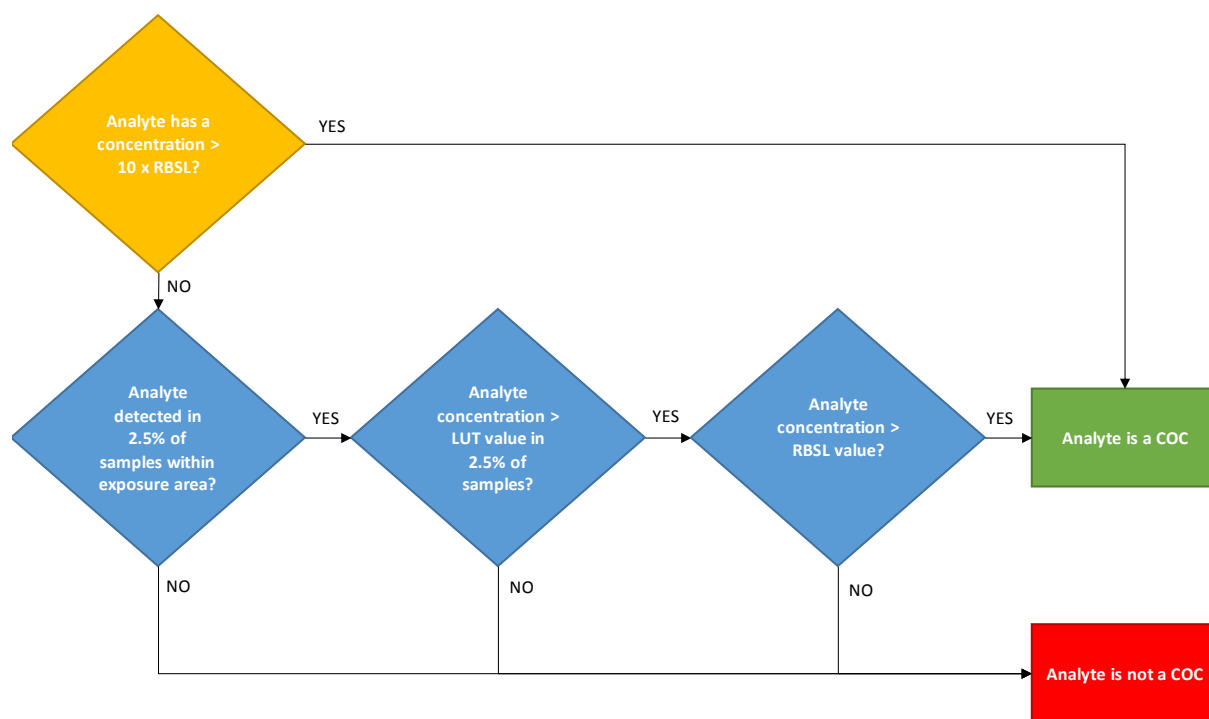


Figure 2-2 Multistep Process for COC Determination

2.5.1 Step 1: Hotspot Evaluation

The first step of COC determination evaluated chemical datasets for hotspot occurrences (i.e. soil samples that exceeded 10 times an RBSL value). This included suburban residential, recreational, and ecological RBSL values. If the chemical concentration in a soil sample exceeded 10 times its respective RBSL value it was identified as a COC, irrespective of the following steps of the COC determination process.

2.5.2 Step 2: Frequency of Detection Evaluation

The second step in the COC determination is a calculation of the frequency of detection for each analyte within an exposure area. All chemical datasets were sufficiently large enough with adequate detection limits such that the frequency of detection is a clear indication of the presence or absence of a chemical in an exposure area. If an analyte was detected in less than 2.5 percent (%) of the samples collected, the analyte was not selected as a COC for further consideration other than in the evaluation of uncertainties. The 2.5% criterion correlates to a 95% upper confidence limit (UCL) of the mean in all analyzed data. Because any COC with a natural occurrence (e.g., metals, PAHs, dioxins) are expected to be present in more than 2.5% of samples, this criterion primarily addresses man-made chemicals (e.g., PCBs). The 2.5% criterion addresses the potential for false positive results, which can occur in up to 5% of samples. If the frequency of detection of an analyte exceeded 2.5%, the chemical proceeded to the third evaluation step.

2.5.3 Step 3: Comparison to AOC LUT Values

In the third step of the COC determination, chemical concentrations for each soil sample are compared to AOC LUT values (i.e., background or laboratory detection limit values). Background concentrations for all chemicals were determined by DTSC through a sampling program as described in the *Final Chemical Soil Background Study Report* (DTSC 2012). A laboratory method reporting limit was identified in the LUT for constituents for which a background concentration was not established. Chemicals that exceed AOC LUT values in 97.5% of the results are evaluated further as COCs. If a chemical does not exceed its respective LUT value in more than 2.5% of the sample results for an exposure area, it is excluded as a COC but is considered in the evaluation of uncertainties as discussed in Section 5.2. Because the LUT value is representative of background for many chemicals, exceedance of the LUT value is possible due to analytical error or background variability. The 2.5% criterion addresses this concern.

2.5.4 Step 4: Comparison of Maximum Detected Analyte Concentration to RBSLs

The fourth step in the COC determination compares maximum detected analyte concentrations in each of the exposure areas to their respective soil RBSLs. The derivation of the RBSLs for human health and ecological receptors is described in more detail in Section 2.4. If the maximum detected concentration of a chemical exceeds its lowest respective RBSL, the chemical is considered a COC. Because the most toxic components (e.g., benzene, toluene, ethylbenzene, xylene; PAHs) of petroleum hydrocarbons were included in the soil analyses; however, results from the total petroleum hydrocarbon analyses were not used in the selection of COCs.

2.5.5 COC Selection Summary

In summary, a chemical was considered a COC if it was detected in more than 2.5% of the soil samples collected at the site at concentrations exceeding LUTs and RBSLs. For those analytes not selected as COCs based on the steps described above, an additional evaluation was performed. The final assessment considered the history of use at the site, the location of samples in relation to any other site-related chemicals, and an evaluation of the distribution of that chemical to determine if it was indicative of natural variability (e.g., geological origin, biological origin, fire origin) or potential hotspots. If all these criteria considerations were negative, the chemical was

not considered to be a COC. If this evaluation indicated that the analyte may be site-related (i.e., a hotspot), the analyte was considered a COC.

The COCs identified for each exposure area are summarized in Table 2-2a through Table 2-2e. For ease in presentation, exposure areas have been grouped in sets of three and four (i.e., Table 2-2a presents the COCs for three exposure areas, Table 2-2b presents the COCs for four additional exposure areas, etc.). Tables A-1 through A-19 in Appendix A present the selection of COCs showing all detected chemicals, frequency of detection, comparison to LUTs, and comparison to RBSLs. In these tables, results for all soil depths are included.

The COC selection for radionuclides did not follow the same process used to screen chemicals. USEPA identified nine process-related radionuclides during its soil investigation (HGL 2012) that exceeded field action levels (FALs): cesium-137, strontium-90, plutonium-239/240, cobalt-60, europium-152, plutonium-238, americium-241, curium-243/244, and nickel-59. Of these radionuclides, majority of the detections (95%) were cesium-137, strontium-90, and plutonium-239/240. If a radionuclide exceeded a FAL value for an exposure area, it was considered a COC for that exposure area and included in risk evaluations. Radionuclides that are part of uranium and thorium decay chains were not detected above background levels and are not included as COCs (HGL 2012). Radionuclides that were selected to be included in risk evaluations were compared to a PRG. The PRG was computed using the exposure assumptions summarized in Table 2-3, using a target annual dose of 12 millirem per (mrem/year).

Section 3

Risk Characterization

3.1 Risk Characterization Methodology

3.1.1 Human Health Receptors

Cancer risk and non-cancer hazards were determined for each alternative. In brief, cancer risks and non-cancer hazards were calculated for each exposure area using risk-based thresholds and EPCs. For chemicals, the risk-based threshold is equal to the RBSL. For radionuclides, PRGs were estimated for process-related radionuclides using the RESRAD-ONSITE model version 7.2 (DOE 2016), developed by DOE in the *Draft Evaluation of Radionuclide Risk in Selected Areas of the Santa Susana Field Laboratory Memorandum* (CDM Smith 2015). Input parameters to the RESRAD model were adjusted to be generally consistent with the assumptions presented in the SRAM (MWH 2014) in conjunction with the unrevised portions of the SRAM Rev.2 (MWH 2005). Modifications to the exposure parameters were based on the Human Health Evaluation Manual OSWER Directive 9200.1-120 (USEPA 2014). Table 2-3 summarizes the exposure parameters used to derive radionuclide PRGs. The PRG for each radionuclide represents a soil concentration that would result in a maximum dose of 12 mrem/year. The 12 mrem/year dose corresponds to approximately a 1×10^{-4} cancer risk.

In this approach, because risk is proportional to concentration, the EPC for each COC was divided by its RBSL (for chemicals) or PRG (for radionuclides) and multiplied by the target cancer risk or non-cancer hazard value used to develop the RBSL or PRG as appropriate.

3.1.1.1 Cancer Risk

Cancer risks are estimated as the incremental probability of an individual to develop cancer over a lifetime as a result of exposure to a potential carcinogen. Excess lifetime cancer risks are generally expressed in scientific notation and are probabilities. An excess lifetime cancer risk of 1×10^{-6} (one in one million), for example, represents the incremental probability that an individual will develop cancer as a result of exposure to a carcinogenic chemical over a 70-year lifetime under the specified exposure conditions. This increment is in addition to the risk of developing cancer from causes unrelated to the exposure. The total excess lifetime cancer risk for each exposure pathway is obtained by summing chemical-specific and radionuclide-specific risk estimates. In evaluating potential cancer risk, it is assumed that potential toxicity of chemical mixtures and radionuclides is additive.

For carcinogens, individual RBSLs (or PRGs) are based on an excess lifetime cancer risk of 1×10^{-6} for chemicals and 1×10^{-4} for radionuclides. Because risk is proportional to concentration, the conversion to risk equation is:

$$ELCR = \frac{\text{Concentration}}{\text{RBSL (or PRG)}} \times TCR$$

Where:

ELCR = Excess lifetime cancer risk

Concentration = Soil concentration (mg/kg, µg/kg, or ng/kg)

RBSL = Risk-based Screening Level for chemicals (mg/kg, µg/kg, or ng/kg)

PRG = Preliminary Remediation Goal for radionuclides (pCi/g)

TCR = Target excess lifetime cancer risk for individual carcinogens (i.e., 10^{-6} for chemicals and 10^{-4} for radionuclides)

3.1.1.2 Non-Cancer Hazard

The potential for non-cancer health effects is evaluated by comparing an exposure level (average daily dose) over a specified time with a reference dose (RfD) or concentration derived for a similar exposure period. This ratio of exposure to toxicity is referred to as a HQ. The HQ is a unitless ratio of a receptor's exposure level (or dose) to the "acceptable" (or allowable) exposure level. A HI is a summation of HQs for a particular pathway or from several pathways.

A HI less than 1 suggests that no adverse health effects are expected based on the exposure scenario evaluated. If the HI exceeds 1, further evaluation is required to group the chemicals according to target organ or mechanism of action. If the HI exceeds 1, HQs for individual COCs with similar toxicological effects or mechanism of action may be summed to yield a target organ/effect-specific HI (USEPA 1989). The target organ/effect-specific HI is calculated by summing HQs for chemicals with similar toxicological effects (e.g., developmental toxicity) or target organs (e.g., liver). The HI assumes that there is a level of exposure below which it is unlikely even for sensitive populations to experience adverse health effects. However, this value should not be interpreted as a probability. Generally, the greater the HI is above unity, the greater the level of concern.

For non-carcinogens, RBSLs are based on a target HQ of 1. The conversion from the RBSL to HQ is:

$$HQ = \frac{\text{Concentration}}{\text{RBSL}} \times 1$$

Where:

HQ = Hazard quotient

Concentration = Chemical concentration (mg/kg, µg/kg, or ng/kg)

RBSL = Risk-based concentration (mg/kg, µg/kg, or ng/kg)

1 = Target HQ

3.1.2 Ecological Receptors

For ecological receptors, RBSLs are based on a target HQ of 1. The conversion from the RBSL to HQ is the same as presented above for human health non-cancer hazard estimation (see Section 3.1.1.2). Hazards were not summed due a lack of information regarding the additivity of hazards across multiple chemical exposures.

3.2 Estimation of Pre-Soil Cleanup Exposure Point Concentrations

The EPCs represent concentrations of COCs to which receptors may be exposed to if time is spent within the identified exposure area over the assumed exposure period. The EPCs were estimated for each COC selected for each exposure area. Typically, EPCs are estimated as the upper one-sided 95% confidence limit of the arithmetic mean (95% UCL) to help reduce the chance that the actual average concentration is not underestimated. The arithmetic mean is an appropriate statistic for characterizing exposure at an exposure point because it statistically represents random exposure within the exposure area. For this assessment for most COCs, EPCs were the 95% UCL as calculated by USEPA software program ProUCL version 5.1 (USEPA 2015). For some COCs, the recommended 95% UCL was above the maximum detected concentration. For these cases, the maximum detected concentration was used as the EPC instead of the 95% UCL.

The EPCs were calculated for surface soil datasets (i.e., 0 to 2.5 feet below ground surface) for each COC and each exposure area because the residents, recreators, and ecological receptors are more likely to be exposed to surface soil. For chemicals that were reported as not detected, the detection limit was used as the value in the EPC calculation. For total toxicity equivalent quotient benzo(a)pyrene (TEQ BAP) and total TEQ dioxins, if all congeners were reported as non-detect, the assumed value was 0. For negative radionuclide results the method detection limit was used as the value in the EPC calculation.

Pre-soil cleanup EPCs were calculated under the No Action Alternative. The pre-soil cleanup EPCs were the same for all alternatives. ProUCL output, presenting statistics and the recommended EPCs for each COC by exposure area under pre-soil cleanup conditions, is presented separately in a supplemental data package.

3.3 Estimation of Post-Soil Cleanup Exposure Point Concentrations

Post-soil cleanup EPCs were calculated for each of the alternatives as described below. ProUCL output, presenting statistics and the recommended EPCs for each COC by exposure area under post-soil cleanup conditions for each alternative, is presented separately in a supplemental data package.

3.3.1 Cleanup to AOC LUT Values Alternative

The EPCs under this alternative were estimated by assuming that soil cleanup had removed all areas exceeding the LUT values. To calculate the risk following theoretical soil removal, the soil sample results for the removed samples were replaced with their respective AOC LUT values (i.e., background concentration or method detection limit). For several of the radionuclides, the AOC LUT value is the MDC because the MDC was greater than the background value or a background value was not determined. An EPC was then estimated for the resulting post-soil cleanup dataset for each COC in each exposure area using ProUCL and the same methods as described in Section 3.3. In some cases, the EPC for a COC was less than the AOC LUT value because majority of the detected results were less than the AOC LUT value.

3.3.2 Cleanup to Revised LUT Values Alternative

The EPCs under this alternative were estimated by assuming that soil cleanup had removed all areas exceeding the RBSL values. To calculate the risk following theoretical soil removal, the soil sample results for the removed samples were replaced with their respective AOC LUT values (i.e., background concentration or method detection limit). Radionuclide EPCs under this alternative were estimated by removing all soil samples within an exposure area with COC concentrations above their respective AOC LUT values and replacing those values with their respective background values (i.e., AOC LUT values). An EPC was then estimated for the resulting post-soil cleanup dataset for each COC in each exposure area using ProUCL and the same methods as described in Section 3.3.

3.3.3 Conservation of Natural Resources Alternative – Residential Scenario

The EPCs under this alternative were estimated by first determining risk drivers (i.e., soil samples with the highest concentrations) based on the suburban residential and/or ecological RBSLs. Then, individual soil samples with the highest concentrations were removed from the dataset (replacing those values with background values) in an iterative process until the resulting risk and hazards, which were based on post-cleanup EPCs computed in ProUCL, were below acceptable levels. For this analysis, the acceptable cancer risk level upper bound threshold was assumed to be 1×10^{-4} and the non-cancer threshold was assumed to be an HI of 1. For cancer risks that approached the upper bound limit of the cancer target risk range (i.e., 1×10^{-4}), additional soil samples were removed to provide a more protective or conservative risk reduction.

3.3.4 Conservation of Natural Resources Alternative – Open Space Scenario

The EPCs under this alternative were estimated by first determining risk drivers based on recreational and/or ecological RBSLs and then removing soil samples for risk drivers (replacing those values with background values) in an iterative process until the resulting risk and hazards were below acceptable levels. For this analysis, the acceptable cancer risk level upper bound threshold was assumed to be 1×10^{-4} and the non-cancer threshold was assumed to be an HI of 1. For cancer risks that approached the upper bound limit of the cancer target risk range (i.e., 1×10^{-4}), additional soil samples were removed to provide a more protective or conservative risk reduction.

3.4 Risk Results

The following section discusses the results of the risk analysis for each exposure area by alternative. The magnitude of cancer risks and non-cancer hazards are discussed by comparing the results for each alternative to USEPA's cancer target risk range and the target threshold for non-cancer hazards.

Human Health Receptors

USEPA uses a target risk range of 1×10^{-4} (one cancer in an exposed population of 10,000) to 1×10^{-6} (one cancer in an exposed population of one million) to evaluate the need for remediation or mitigation at a site as outlined in the OSWER directive (USEPA 1991b). In general, USEPA considers excess cancer risks that are below about 1×10^{-6} to be so small as to be negligible, and

risks above 1×10^{-4} to be sufficiently large that remediation is desirable. Decisions on whether to remediate or mitigate risks that fall in this range are made on a site-specific basis. For sites where the cumulative carcinogenic risk is within the target risk range, risk management decisions are made on a site-by-site basis; action may not be warranted unless a chemical specific standard is violated, there are significant non-carcinogenic risks, or an adverse environmental impact has been identified that warrants action (USEPA 1991b). Site-specific considerations, including types of exposure, uncertainties in estimating exposures, size of the affected population, and limitations of remedial activities, may determine the cancer risk level acceptable for a site.

For non-cancer hazards, USEPA typically uses an HI of one; however, no “bright line” is established at an HI of 1. An HI of 1 or less for exposure via all chemicals and routes indicates that the receptor’s exposure is equal to or less than an “allowable” exposure level and adverse health effects are considered unlikely to occur. Hazard indexes greater than 1 are further refined by summing only chemicals that effect the same target organ or system (USEPA 1989). Hazard indexes for chemicals affecting the same target organ or system that are greater than 1 indicate a possibility for adverse health effects. However, the HI should not be interpreted as a probability. Generally, the greater the HI is above 1, the greater the level of concern. In addition, the level of concern does not increase linearly because the RfDs do not have equal accuracy or precision.

Ecological Receptors

When an HQ is equal to 1, the exposure and the dose associated with adverse effects for ecological receptors are equal, indicating adverse effects at or below this soil concentration are unlikely (USEPA 2005). Thus, a standard target HQ of 1 is typically used in ecological risk assessment. However, there is no clear consensus in regulatory guidance or scientific literature concerning the significance of the level of departure from an HQ of 1. Just like for human health, there is generally greater concern the higher the HQ is above 1. However, the level of concern does not increase linearly.

Another complicating issue is that an HQ greater than 1 neither indicates the effect magnitude nor provides a measure of potential population-level effects. While HQs above 1 suggest the potential for adverse effects, remedial decisions often are not made solely based on the HQ. Rather, a weight-of-evidence evaluation is conducted to place HQs above 1 into context.

While there is no clear consensus in regulatory guidance or scientific literature concerning the significance of the level of departure from a HQ of 1, HQs between 1 and 2 rarely trigger remedial action. As a result, for the purposes of this evaluation, a target HQ of 2 has been deemed acceptable in a limited number of cases. For example, in exposure areas I13, H15, M14, I18, H19, and O10, reducing mercury, barium, zinc, and 2-methyl-4-chlorophenoxyacetic acid (MCPA) concentrations to background levels was still not resulting in an HQ of 1, so an HQ of 2 was deemed acceptable because there is no need to cleanup below background.

3.4.1 No Action Alternative

Under the No Action Alternative, cancer risk and hazards are estimated for each exposure area assuming that no action is taken to reduce risk associated with exposure to COCs for receptors (i.e., suburban residents, recreators, ecological receptors) within an exposure area. Appendix B presents detailed risk calculations prepared for each of the 19 exposure areas.

3.4.1.1 Suburban Resident

Cancer Risk Evaluation

For the 19 exposure areas evaluated, existing conditions cancer risks under the Conservation of Natural Resources Alternative – Residential Scenario (see Table 3-1) range from 5×10^{-6} to 2×10^{-3} . Exposure areas with total cancer risks greater than 1×10^{-4} include SRE (H15), 17th Street Pond (M14), and B4064 NE (I18). Individual chemicals and radionuclides with cancer risks above 5×10^{-5} in these exposure areas are the primary contributors to elevated risks. The primary contributors include the following:

- Total TEQ BAP – 17th Street Pond (M14)
- Cesium-137 – SRE (H15) and B4064 NE (I18)

With exception of total TEQ BAP at the RMHF (I13) with a cancer risk of 7×10^{-5} , all other cancer risks for individual chemicals and radionuclides were less than 5×10^{-5} .

Non-Cancer Hazard Evaluation

For the 19 exposure areas evaluated, non-cancer HI values under the Conservation of Natural Resources Alternative – Residential Scenario range from 0.1 to greater than 100. Exposure areas with HI values greater than 1 include RMHF (I13), SRE (H15), H14, H19, N13, F18, H17, N10, O6, P6, and P11. Individual chemicals with HQ values greater than 1 are the primary contributors to non-cancer hazard. The primary contributors include:

- TEQ dioxin – H14 and P11
- Aroclor 5460 – H17 and O6
- Antimony – RMHF (I13) and P6
- Lead – RMHF (I13), F18, and P6

3.4.1.2 Recreator

For the 19 exposure areas evaluated, existing conditions cancer risks under the Conservation of Natural Resources Alternative – Open Space Scenario (see Table 3-2) range from 1×10^{-6} to 2×10^{-4} . Total cancer risks were greater than 1×10^{-4} for only one exposure area [B4064 NE (I18)]. Individual chemicals and radionuclides with cancer risks above 5×10^{-5} in this exposure area are the primary contributors to elevated risks. Only cesium-137 had cancer risks greater than 5×10^{-5} with estimated cancer risks of 2×10^{-4} .

With exception of total TEQ BAP and benzo(a)pyrene at 17th Street Pond (M14) with a cancer risk of 1×10^{-4} and 7×10^{-5} , respectively, all other cancer risks for individual chemicals and radionuclides were less than 5×10^{-5} .

Non-Cancer Hazard Evaluation

For the 19 exposure areas evaluated, non-cancer HI values under the Conservation of Natural Resources Alternative – Open Space Scenario range from 0.02 to 30. Grids with HI values greater than 1 include RMHF (I13), F18, and P6. Individual chemicals with HQ values greater than 1 are

the primary contributors to non-cancer hazard. The primary contributor to each of the exposure areas with non-cancer HI values greater than 1 was lead.

3.4.1.3 Ecological Receptors

For the 19 exposure areas evaluated, HQ values exceed 200 for birds and mammals existing conditions, depending on the chemical and exposure area. Seven of the 19 exposure areas have HQ values greater than 2. Chemicals with HQ values greater than 2 are the primary contributors to ecological risk. The primary chemical contributors include:

- Aroclor 5460 – H17 and O6
- Total TEQ dioxin – SRE (H15), 17th Street Pond (M14), B4064 NE (I17, I18), H14, H19, N13, F18, G17, H17, P6, and P11
- MCPA – H19
- Antimony – RMHF (I13) and P6
- Barium – B4064 NE (I18)
- Lead – RMHF (I13), F18, N10, and P6
- Mercury – SRE (H15), O10, F18
- Zinc – B4064 NE (I18)

3.4.2 Cleanup to AOC LUT Values Alternative

3.4.2.1 Overview

As described in the FEIS, the AOC (DTSC 2010) stipulates that soils be cleaned up to the AOC LUT values, which are local background concentrations or minimum detection limits for chemical contaminants for which the minimum detection limits exceed background concentrations. For radionuclides, AOC LUT values are local background values or minimum detectable concentrations. The AOC LUT values are to be interpreted as “not-to-exceed” values. The AOC cleanup evaluation process does not involve risk assessment, but instead involves point-by-point and analyte-by-analyte comparisons for determining remediation areas.

Under this alternative, soil excavation and removal would be performed until all soils with concentrations above the AOC LUT values have been addressed.

3.4.2.2 Risk Reduction Summary

Section 3.4.1 describes the existing risk and hazard indices if no action is implemented. Table 3-3 presents the post-soil cleanup cancer risk in the 19 exposure areas after the implementation of the Cleanup to AOC LUT Values Alternative. As shown, cancer risks would range from 5×10^{-7} (O10, F18) to 5×10^{-5} (B4064 SE), and the HI for non-cancer hazard would range from 0.05 (O6) to 0.9 (H19). For ecological receptors, the HQ after implementation of this alternative ranges from 0.000002 (G17) to 2 (I18).

The risk reduction under this alternative is compared to other alternatives in Figures 3-1 and 3-2.

3.4.3 Cleanup to Revised LUT Values Alternative

3.4.3.1 Overview

As described in the EIS, under this alternative, a revised set of LUT values were established for chemical constituents, while the LUT values for radioactive constituents remain the same as under the Cleanup to AOC LUT Values Alternative. The revised chemical LUT values are based on RBSLs developed in the SRAM for the suburban residential exposure scenario (MWH 2014). This scenario assumes that suburban residents are directly exposed to site soil 24 hours per day, 350 days per year (assumes 15 vacation days per year spent off-site), for 30 years. The revised LUT values for chemical constituents are concentrations that correspond to a 1×10^{-6} risk of developing cancer and/or a HI of 1.

Under this alternative, soil excavation and removal would be performed until all soils with concentrations above the revised LUT values have been addressed. Cleanup requirement for radionuclides would be identical to the Cleanup to AOC LUT Values Alternative.

3.4.3.2 Risk Reduction Summary

Section 3.4.1 describes the existing risk and hazard indices if no action is implemented. Table 3-4 presents the remaining cancer risk in the 19 exposure areas after the implementation of the Cleanup to Revised LUT Values Alternative would range from 5×10^{-7} (F18) to 5×10^{-5} (B4064 SE), and the HI for non-cancer hazard would range from 0.06 (O6) to 0.9 (H19). For ecological receptors, the HQ after implementation of this alternative ranges from 2×10^{-6} (G17) to 2 (I18).

The risk reduction under this alternative is compared to other alternatives in Figures 3-1 and 3-2.

3.4.4 Conservation of Natural Resources Alternative – Residential Scenario

3.4.4.1 Overview

Under the Conservation of Natural Resources Alternative – Residential Scenario, cancer risks and non-cancer hazards were calculated for suburban residents and ecological receptors exposed to surface soil within the 19 selected exposure areas. The resulting risks were compared with the USEPA acceptable risk levels previously described to determine if risk reduction was warranted. If risks were above acceptable levels, soil samples containing risk drivers were removed in an iterative process until the resulting risk and hazards fall within acceptable levels. This evaluation is consistent with the risk assessment process outlined in the SRAM (MWH 2014) for chemically impacted soil which in turn is based on guidelines developed by USEPA for Superfund sites. The SRAM established the methodology to be used to determine human health risks due to exposure to chemicals present in various media at the SSFL. Exposure to radionuclides is assessed in the same basic manner.

Under this alternative, cancer risk and hazards were estimated for each exposure area based on removing soil containing COCs (risk drivers) with elevated concentrations until cancer risk was below 1×10^{-4} and the total HI was below 1 for non-carcinogens affecting the same target organ or system. When cancer risk approached the 1×10^{-4} target cancer risk range, additional samples were removed to provide a more conservative and protective assessment.

For ecological receptors, hazards were estimated for each exposure area based on removing soil containing COCs (risk drivers) with elevated concentrations until HQ values were below 2.

3.4.4.2 Risk Reduction Summary

Section 3.4.1 describes the existing risk and hazard indices if no action is implemented. The remaining cancer risk in the 19 exposure areas (see **Appendix B**) after the implementation of the Conservation of Natural Resources Alternative – Residential Scenario would range from 1×10^{-6} (O6) to 5×10^{-5} [(B4064/NCY (J18))], and the HI for non-cancer hazard would range from 0.06 (O6) to 1 (H19). For ecological receptors, the HQ after implementation of this alternative ranges from 1×10^{-6} (H15) to 2 (I13, H15, M14, I18, H19, O10, and G17).

The risk reduction under this alternative is associated with the removal of soil containing COCs that drive the total risk within an exposure area to above the acceptable suburban resident cancer risk level threshold of 1×10^{-4} , suburban residents' non-cancer HI threshold of 1, or HQ threshold of 2 for ecological receptors. The reduction in risk in comparison with other alternatives can be seen in Figures 3-1 and 3-2.

3.4.5 Conservation of Natural Resources Alternative – Open Space Scenario

3.4.5.1 Overview

Under the Conservation of Natural Resources Alternative – Open Space Scenario, cancer risks and non-cancer hazards were calculated for recreators and ecological receptors exposed to surface soil within the 19 selected exposure areas. The resulting risks were compared with the USEPA acceptable risk levels previously described to determine if risk reduction was warranted. If risks were above acceptable levels, soil samples containing risk drivers were removed using the same iterative process outlined above until the resulting risk and hazards fall within acceptable levels.

3.4.5.2 Risk Reduction Summary

Section 3.4.1 describes the existing risk and hazard indices if no action is implemented. The remaining cancer risk in the 19 exposure areas (see **Appendix B**) after the implementation of the Conservation of Natural Resources – Open Space Scenario would range from 3×10^{-7} (P6) to 1×10^{-5} [(B4064/NCY (J18))], and the HI for non-cancer hazard would range from 0.01 (O6) to 0.3 (H19). For ecological receptors, the HQ after implementation of this alternative ranges from 1×10^{-6} (H15) to 2 (I13, H15, M14, I18, H19, O10, and G17).

The risk reduction under this alternative is associated with the removal of soil containing COCs that drive the total risk within an exposure area to above the acceptable recreator cancer risk level threshold of 1×10^{-4} , recreator non-cancer HI threshold of 1, or HQ threshold of 2 for ecological receptors.

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Section 4

Volume Estimates Based on FEIS Alternatives

The FEIS discusses the four soil cleanup alternatives and associated volume estimates for DOE's cleanup of soils in the 290 acres of Area IV and portions of 182-acre NBZ. This section provides updated volume estimates for the cleanup alternatives described in the FEIS. The No Action Alternative does not require cleanup, so there is no associated volume for it. All chemical sampling results for Area IV soils were compiled in an EQuIS database maintained by CDM Smith and plotted in a geographic information system (GIS). For each of the FEIS alternatives, locations were identified for removal based on the screening criteria for the alternative and used to determine the cleanup footprint and volume estimates. Once a location was identified for cleanup, the removal footprint was determined by extending the lateral extent of an area approximately halfway between an exceedance location and a location with contamination below screening criteria. Rock outcrops and existing structures were excluded from the total footprint.

As stated in the FEIS, steps would be taken under each alternative to protect biological and cultural resources in accordance with federal, state, and local laws. Footprints for federal- and state-listed endangered species, species of local importance, and sensitive habitats were provided by Leidos (2017) and are collectively referred to as "exemption areas." The exemption area footprint remained the same for all soil cleanup alternatives (see Figures 4-2 and 4-4). The amount of soil removed under each alternative outside of the exemption areas varied based on the elements of each alternative. However, if a location with an RBSL exceedance was within the historical and biological exemption area, it was evaluated using exemption rules presented in the SSFL Biological Assessment (Leidos 2017). Based on the exemption rules, if two or more COC concentrations exceeded two times the RBSL, then the location was identified for removal. Locations with only a single COC concentration greater than two times the RBSL were evaluated on a location-by-location basis and removal decisions were made by the Leidos team. This evaluation was conducted for both suburban residential and ecological RBSLs together and was used to develop the initial cleanup footprint within exemption areas. This footprint was subsequently refined based on the footprint developed for the Conservation of Natural Resources Alternative, discussed in detail in Section 4.3 (see Figures 4-5 and 4-6).

4.1 Cleanup to AOC LUT Values Alternative

Soil cleanup under this alternative would require remediation of all soil in Area IV and NBZ to meet the chemical and radionuclide cleanup LUT values established in accordance with the 2010 AOC (DTSC 2010).

4.1.1 Identifying AOC LUT Exceedances

To determine the cleanup footprint for the Cleanup to AOC LUT Values Alternative, a color-coded dot map was used to identify areas where chemical concentrations exceeded LUT values for any of the COCs identified in the soils CDSR (CDM Smith 2017) and radionuclides in USEPA's final soils report (HGL 2012). The Area IV and NBZ dot map showing locations with LUT exceedances was developed using GIS and can be seen in Figure 4-1. Green dots on Figure 4-1 indicate

locations where no CDSR COC exceeded its respective LUT value, and the red dots show sample locations that exceeded the LUT value for one or more COCs. These maps were used to identify areas where chemical concentrations exceeded LUT values for any COC identified in the CDSR.

4.1.1 Soil Cleanup Volumes

Soil cleanup volumes for the Cleanup to LUT Values Alternative were developed by plotting all locations in Area IV and NBZ where any chemical or radionuclide exceeded its chemical or radionuclide LUT value. Those locations were plotted via GIS, and the lateral extent of the areas around the locations were developed as described below. Using the GIS data, depths were determined for each location, reflecting either surface contamination (2.5 feet) or subsurface contamination (greater than 2.5 feet below ground surface). The 2.5 feet threshold for surface and subsurface designation was determined based on the depth intervals of soil samples collected at the site. Areas were multiplied by depths to develop volumes, and the volumes for all areas were totaled.

Lateral extent of the areas was estimated based on sample results being above or below the LUT values. A removal depth of 2.5 feet was assumed for locations where only the surface contamination was above LUT values. For locations where soil deeper than 2.5 feet had sample results above LUT values the depth of subsurface contamination was estimated to be half way between the deepest LUT exceedance at a sampled location and subsequent non-exceedance at that location. The resulting volume under the Cleanup to AOC LUT Values Alternative was approximately 881,000 cubic yards after applying a 20% uncertainty factor and the total impacted area under this alternative was 91 acres. The footprint for the Cleanup to AOC LUT Values Alternative is shown in Figure 4-2.

4.2 Cleanup to Revised LUT Values Alternative

The Cleanup to Revised LUT Values Alternative addresses removal of impacted soil based on a point-by-point evaluation of the exceedance of human health and ecological RBSLs (revised LUT Values) criteria for chemicals and provisional radiological LUT for radionuclides. The suburban residential human health and ecological RBSLs used for this evaluation are provided in the SRAM (MWH 2014) and the cleanup criteria for radionuclides would be identical to the Cleanup to AOC LUT Values Alternative.

4.2.1 Identifying Revised LUT Exceedances

Using database coding in EQuIS, soil sampling locations that had no RBSL exceedance, human health RBSL exceedance only, ecological RBSL exceedance only, and exceedance of both human health and ecological RBSL values were identified. These samples were plotted as color-coded dot maps for the entire SSFL Area IV and NBZ as shown on Figure 4-3. The different colors for each dot on Figure 4-3 denote the following:

- No RBSL exceedance – Green dot
- Human health RBSL exceedance for one or more COC – Yellow dot
- Ecological RBSL exceedance for one or more COC – Orange dot

- Human health RBSL and ecological RBSL exceedance for one or more COC – Red dot

To determine the cleanup footprint for the Cleanup to Revised LUT Values Alternative, the dot maps were used to identify areas where chemical concentrations exceeded human health and ecological RBSL values for any of the COCs identified in the CDSR (CDM Smith 2017).

4.2.2 Soil Cleanup Volumes

As discussed in the introduction to Section 4, the cleanup approach within exemption areas is identical for all alternatives, so the cleanup footprint within exemption areas for this alternative is the same as the Cleanup to AOC LUT Values Alternative.

After all the locations were identified for removal, removal area footprints were developed using the dot maps. The lateral extent of areas identified for removal was estimated based on exceedances and data below RBSL or radionuclide LUT screening criteria. Contamination was evaluated in the 0 to 2.5 feet and 2.5 to 5 feet depth intervals. If a location had an RBSL exceedance in the deeper soil interval, the vertical extent of removal at that location was 5 feet. The 5-foot depth of excavation was used because receptors are not expected to be exposed to deeper soil. For locations where the deeper soil interval did not have RBSL exceedance, the vertical extent was limited to 2.5 feet. The vertical extent of radionuclide contamination was 2.5 feet based on sampling data. The resulting footprint for removal under the Cleanup to Revised LUT Values Alternative was 32 acres in size.

Volumes were estimated by using the revised LUT area footprints shown in Figure 4-4 and by considering the depth of contamination. The final volume estimate under the Cleanup to Revised LUT Values Alternative with a 20% uncertainty factor is 190,000 cubic yards.

4.3 Conservation of Natural Resources Alternative

Under this alternative, the soil in Area IV and NBZ would be remediated to reduce the concentrations of chemical and radioactive constituents to levels necessary to protect human health and the environment. Two risk assessment-based scenarios are being evaluated under this alternative based on potential future land use: residential and open space. Excavation volumes for the Conservation of Natural Resources Alternative under both scenarios were determined for risk reduction associated with chemical exposure and exposure to radionuclides in nineteen 10,000 m² representative exposure areas within Area IV. These exposure areas are provided in Figure 2-1.

4.3.1 Identifying Risk Exceedances

For the residential land use scenario, locations for soil removal were identified by plotting RBSL exceedances for suburban residents and ecological receptors. For the open space land use scenario, locations for soil removal were identified by plotting RBSL exceedances for recreators and ecological receptors. Nineteen representative exposure areas were selected based on the observation of multiple chemical concentrations exceeding 10 times RBSL values (see Figure 2-1). Included within the 19 selected representative exposure areas were the five locations identified by USEPA as exhibiting 70% exceedance of its field action levels, including the RMHF, SRE, 17th Street DrainageB4064, and the NCY. Risks and hazard indices were calculated for COCs and radionuclides within each exposure area. Initially, risks were quantified under existing baseline

conditions (i.e., no action). Then, risks were simulated to represent a post-soil removal action condition, as determined by removing soil samples for risk drivers in an iterative process until the resulting risk and hazards were within acceptable levels. This was done by determining risk drivers based on residential and ecological RBSLs for the residential scenario and based recreational and ecological RBSLs for the open space scenario. The details of the risk assessment are discussed in greater detail in Sections 2 and 3.

To identify additional soil remediation areas, lessons learned from the evaluations conducted for the 19 exposure areas were used as a basis for extrapolation across the entirety of Area IV and NBZ. These are as follows:

- Residential Scenario

After multiple iterations, it was observed that removing hotspot locations for all COCs and locations with dioxin concentrations greater than four times the RBSL reduced cancer risk and non-cancer hazards to the acceptable thresholds in all 19 exposure areas. To extrapolate these results for the entire Area IV and NBZ, any site location exceeding 10 times the respective RBSL value (i.e., hotspot locations) for all COCs and locations exceeding four times the RBSL value for dioxins were identified for removal. For radionuclides, removing locations exceeding PRGs reduced associated risks and hazards to acceptable levels. The resulting cleanup footprint can be seen in Figure 4-5.

- Open Space Scenario

The same approach was used for the Conservation of Natural Resources Alternative – Open Space Scenario by substituting the human health recreational RBSL values for the suburban residential RBSLs for human health. Ecological receptor RBSLs remained the same. The resulting cleanup footprint can be seen in Figure 4-6.

Soil sample locations to be excavated to reduce risk to acceptable levels were delineated on the maps based on the locations that exceeded the risk criteria in each scenario (residential and open space). The actual area in square feet for each scenario was obtained using GIS.

4.3.2 Soil Cleanup Volumes

Volumes were estimated considering the depth of contamination. Multiple sample depths are available at most locations. For the residential analysis, samples collected at depths up to 5 feet below ground surface were considered, which are consistent with findings from the CDSR (CDM Smith 2017). Areas with at least one location having contamination depth greater than 2.5 feet were multiplied by the 5 feet depth to obtain the excavation volume while areas with contamination depth not exceeding 2.5 feet were multiplied by the 2.5 feet depth to obtain excavation volumes. The open space analysis assumed a shallow depth of 2.5 feet to determine excavation volumes because a recreational visitor is not expected to be exposed to deeper soil.

The process was essentially the same for radionuclides except that maps identifying exceedances of PRGs for radionuclides under each scenario were displayed to demarcate areas requiring excavation to reduce risk to acceptable levels. The resulting areas were multiplied with the shallower depth of 2.5 feet to obtain removal volumes for radiological risk. The cleanup areas for

the residential and open space scenarios under the Conservation of Natural Resources Alternative are presented in Table 4-1.

Table 4-1: Conservation of Natural Resources Alternative Total Areas and Volumes

Conservation of Natural Resources Scenario	Area (acres)	Volume (cubic yards)
Residential	9.5	52,000
Open Space	8.9	38,000

Table 4-2 summarizes areas and volumes by exposure area. Based on results from the risk assessment for the 19 exposure areas (discussed in Sections 3.4.4 and 3.4.5), the volumes that would be removed under the residential scenario range from approximately 64 (I14) to 4,454 cubic yards (M14), and under the open space scenario the volumes range from approximately 64 (I14) to 2,409 cubic yards (M14). Figure 4-7 shows the reduction in volume from the Cleanup to AOC LUT Values Alternative to the Conservation of Natural Resources Alternative – Open Space Scenario. The Cleanup to AOC LUT Values Alternative is the most conservative and has the highest removal volume. The two scenarios under the Conservation of Natural Resources Alternative have much lower removal volumes, but based on the risk calculations conducted in Section 3, the remaining soil does not pose a significant threat to human health.

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Section 5

Risk Evaluation Summary

5.1 Summary of Risk Analysis

In this analysis, cancer risk and non-cancer hazards were evaluated for suburban residents, recreators, and ecological receptors exposed to chemicals and radionuclides at 19 representative exposure areas representative of conditions throughout Area IV and NBZ. The steps conducted for this risk analysis included (1) identification of representative exposure areas, (2) selection of COCs, (3) estimation of exposure point concentrations, (4) estimation of cancer risks and non-cancer hazards, and (5) determination of cleanup volumes.

Cancer risks and non-cancer hazards were calculated for COCs in each exposure area using chemical RBSLs for suburban residents, recreators, and ecological receptors developed in the SRAM (MWH 2014) or radionuclide PRGs and EPCs. The EPCs were determined for each COC in each exposure area for each alternative under consideration. The resulting risk estimates were compared to USEPA's cancer target risk range of 1×10^{-4} to 1×10^{-6} and a non-cancer threshold of 1 to evaluate the need for remediation or mitigation at a site, as outlined in the OSWER directive (USEPA 1991b). For the suburban resident, cancer risk drivers in the exposure areas included total TEQ BAP and cesium-137; non-cancer risk drivers included total TEQ dioxin, Aroclor 5460, antimony, and lead. For the recreator, the only cancer risk driver was cesium-137; the non-cancer hazard driver was lead. For ecological receptors, risk drivers included Aroclor 5460, TEQ dioxin, MCPA, antimony, barium, lead, mercury, and zinc. Not all these COCs were risk drivers in each exposure area.

This risk analysis found that under each remedial alternative evaluated where soil was removed, total cancer risks and non-cancer hazards were reduced to within USEPA target risk ranges generally considered acceptable (Table 5-1). These results are presented graphically on Figures 4-1 and 4-2. The graphs show a substantial reduction in cancer risks and non-cancer hazards between the No Action Alternative and the three soil removal alternatives. There is less reduction between the Conservation of Natural Resources Alternative and Cleanup to Revised LUT Values Alternative, and the reduction is not substantial between Cleanup to Revised LUT Values Alternative and Cleanup to Revised AOC Values Alternative. An important advantage of the Conservation of Natural Resources Alternative is that excavation volumes are reduced significantly while maintaining that the remaining soil does not pose a significant threat to human health (see Figure 4-7).

5.2 Uncertainties

Risk assessment guidance (USEPA 1989) stresses the importance of considering uncertainties in interpreting and applying results of any risk assessment. Because of the uncertainties, this risk assessment should not be construed as presenting absolute risks or hazards. Rather, it is a conservative analysis intended to indicate the potential for adverse impacts to occur based on RMEs. It largely serves as a comparative analysis between the alternatives under consideration for the purposes of a cost-benefit analysis.

Assumptions were made throughout this risk assessment that are conservative, in that they tend to overestimate exposure and resultant risk rather than underestimate it. The overall risk to public health attributable to Area IV and NBZ is an upper bound probability of adverse health effects based on residential land use; actual health effects may be lower, particularly if the land use does not end up being residential.

An evaluation of uncertainties related to the risk assessment is important to place the site risk estimates in perspective and to support risk managers in risk-based decision-making. The primary areas of uncertainty and limitations are qualitatively discussed in the following subsections:

- Environmental data (data usability, identification of COCs, estimation of EPCs)
- RBSL assumptions
- Toxicological data used to estimate RBSLs and PRGs
- Risk characterization

5.2.1 Environmental Data

Uncertainty is always involved in the estimation of chemical concentrations. Errors in the analytical data may stem from errors inherent in sampling and/or laboratory procedures. One of the most effective methods of minimizing procedural or systematic error is to subject the data to a strict quality control (QC) review. This QC review procedure helps eliminate many laboratory errors. However, even with all data vigorously validated, it must be realized that error is inherent in all laboratory procedures.

Selection of COCs

The COCs for this risk analysis were selected based on comparison of soil values with LUTs, risk-based thresholds (comparison with RBSLs), and frequency of detection. The COC screening process is conducted to limit the number of contaminants included in quantitative risk assessment while also addressing all significant contaminants. The COCs retained for evaluation generally were frequently detected toxic constituents whose maximum detected concentrations exceeded their respective screening levels. For non-carcinogens, COCs were selected using an RBSL based on a target HQ of 1. Chemicals present at concentrations that exceed screening criteria based on an HQ of 0.1 theoretically could contribute to unacceptable non-cancer effects through combined exposure to multiple chemicals. However, contaminants often were co-located, with risk drivers exceeding risk thresholds on an individual basis. When cleanup volumes were determined for the risk drivers, those chemicals that may have exceeded an HQ of 0.1 and not an HQ of 1 (i.e., were not selected as COCs), are not anticipated to remain at levels that when combined in a cumulative risk calculation exceed an HI of 1.

Some chemicals infrequently detected (less than 2.5% detections) were eliminated from the evaluation. These infrequently detected chemicals were evaluated further to assure that chemicals are not known human carcinogens, are not detected at very high concentrations, and/or are not concentrated in hotspots. Hotspots are defined as relatively small locations with chemical concentrations that are significantly higher than those in surrounding areas. In most

cases, hotspots correlate with source areas. Chemicals classified as known human carcinogens, detected at very high concentrations, or concentrated in a hotspot area, theoretically could be significant, even if their sitewide occurrence is low. Generally, concentrations of chemicals and radionuclides indicating potential hotspots were detected in more than 2.5% of the samples. If a chemical eliminated based on frequency of detection had a concentration greater than 10 times the RBSL within an exposure area, it was retained as a COC for that exposure area. Elimination of chemicals detected in less than 2.5% of the samples is not expected to affect the overall risk in an exposure area.

Exposure Point Concentrations

The methods selected to determine EPCs were based on USEPA guidance and recommendations as provided in ProUCL (USEPA 2015). These approaches were based on recent recommendations for calculating EPCs and evaluating non-detect data made by leading statisticians in the field and USEPA. The methods used were chosen to provide the best possible estimate of EPCs for individual exposure areas.

Additional uncertainty is associated with chemicals reported in samples at concentrations below the method reporting limits, but still included in the analysis. These values are estimated and may result in the overestimation or underestimation of risk. For example, several analytical results for PAHs and PCBs in soil were qualified as estimated (i.e. J-qualified), and the EPC calculated for these COCs based on estimated values may be under- or overestimated.

Using Current Conditions to Estimate Future Exposures

Another assumption made in this assessment is that exposure to COCs in various media remains constant over time. This suggests there is a non-diminishing source of contamination and that concentrations will remain at present levels for up to 30 years. The COC concentrations in dynamic systems change over time, and COC concentrations in soil are more likely to be similar in the future if conditions at the site are not altered. Dioxins, PCBs, and some PAHs are relatively persistent in the environment. Concentrations for inorganic COCs may change over time due to natural processes such as leaching to groundwater, wind erosion, surface, and runoff or through redistribution of soils by people.

Exposure Area Size for Recreators

The exposure area size for recreators was assumed to be equal to that of a suburban resident, although it is possibly much larger. Exposure areas for recreators likely comprise multiple 10,000 m² areas. Computation of EPCs over a larger area would likely result in lower EPC values than used in this risk evaluation because EPCs driven by hotspots would be reduced with more data points included in the evaluation. Therefore, the impact of this assumption is that risk to recreators may be biased high.

Exposure Area Size for Ecological Receptors

The exposure area size for ecological receptors was assumed to be equal to that of a suburban resident, although it could be either smaller or larger depending on the home range size of ecological receptors. This uncertainty is most important for small home range receptors that may be exposed to hotspots. However, all hotspots across Area IV and NBZ will be removed under the

Conservation of Natural Resources Alternative, so ecological receptors will not be exposed to hotspots.

5.2.2 RBSL Assumptions

The RBSLs were developed in the SRAM using standard USEPA exposure equations and default residential exposure assumptions. Uncertainty in exposure assumptions are a large source of uncertainty in risk assessment. In general, assumptions were made based on RME, and, in most cases, values were based on USEPA guidance documents. These exposure assumptions are conservative to assure that human health is adequately protected. For example, conservative assumptions were assumed for the exposure time, frequency, and duration of potential exposures, as well as for the quantity of material ingested, inhaled, or absorbed.

The RBSLs for chemicals used in this risk evaluation as presented in the SRAM do not reflect the most recent changes presented in *Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors* OSWER Directive 9200.1-120 (USEPA 2014). Updates to default RME exposure factors include the exposure duration for a resident, body weight of adults and children, and skin surface area for dermal contact. The influence of these values not being used in the development of the RBSLs is unknown. However, because cleanup volumes were conservatively developed and a 20% uncertainty factor was applied to the volume estimates, the overall impact is not anticipated to be significant.

5.2.3 Toxicological Data

Toxicity values used to estimate RBSLs were values provided by USEPA in the Integrated Risk Information System (IRIS) online database of toxicity information or from the OEHHA Toxicity Criteria Database current at the time of the RBSL development. Criteria likely err on the side of protectiveness for most chemicals. However, it is important to consider that a potentially large source of uncertainty is inherent in the derivation of toxicity criteria (i.e., RfDs), and cancer slope factors) used to estimate RBSLs. In many cases, data must be extrapolated from animals to sensitive humans by the application of uncertainty factors to an estimated no-observed-adverse-effect-level or lowest-observed-adverse-effect-level for non-cancerous effects. While designed to be protective, in many cases uncertainty factors can overestimate the magnitude of differences that may exist between humans and animals and among humans. Alternatively, toxicity criteria may be based on studies that did not detect the most sensitive adverse effects. For example, many past studies have not measured possible toxic effects on the immune system. Moreover, some chemicals may cause subtle effects not easily recognized in animal studies. The effects of lead on cognitive function and behavior at very low levels of exposure serves as example.

Additional uncertainty exists in the derivation of cancer slope factors, which often involves linear extrapolation of effects at high doses to potential effects at lower doses commonly seen in environmental exposure settings. Currently, it is not known whether linear extrapolation is appropriate. Likely, the shape of the dose response curve for carcinogenesis varies with different chemicals and mechanisms of action.

The RBSL values have not been updated to incorporate changes since the values were published in the SRAM. Because of this, newer toxicity information was not used in the development of the RBSL values. Recognizing the uncertainty factors incorporated in toxicity value derivation, the

influence this may have is not anticipated to be significant and the evaluation is likely to be biased high rather than low.

5.2.4 Risk Characterization

Extrapolation of Subareas to the Entire Site

The range of risks calculated for each remedial action alternative for each exposure area is considered representative of other contaminated areas at Area IV and NBZ. However, it is possible that a small percentage of areas within Area IV and NBZ may have associated risks outside the range of the risks represented by the 19 exposure areas evaluated.

Assumption of Residential Exposure

Boeing, the land owner, has established a deed of covenant restricting all future use of Area IV and NBZ to recreational and open space (Ventura County 2017). The purpose is to preserve natural resources and manage the protection of natural resources, outdoor recreation, and public health and safety. This assessment assumes a suburban residential future land use for the No Action, Cleanup to Revised LUT Values, and Conservation of Natural Resources Alternatives; thus, the risk evaluation for these alternatives overestimates potential risk for recreational receptors. The risk assessment under the Conservation of Natural Resources Alternative addresses both a suburban residential and a recreational open space future land use.

Exposure to Chemical Mixtures

There is uncertainty in assessing the risks associated with a mixture of chemicals. In this assessment, the effects of exposure to each COC have initially been considered separately; however, these substances occur together at the site, and receptors may be exposed to mixtures of the chemicals. Prediction of how these mixtures of chemicals will interact must be based on an understanding of the mechanisms of such interactions. Individual compounds may interact chemically in the body, yielding a new toxic component or causing different effects at different target organs. Suitable data are not currently available to rigorously characterize the effects of chemical mixtures. Consequently, as recommended by USEPA (1989), chemicals present at the site were assumed to act additively, and potential health risks were evaluated by summing excess lifetime cancer risks and calculating HIs for non-cancer health effects.

This approach to assessing risk associated with mixtures of chemicals assumes that there are no synergistic or antagonistic interactions among the chemicals and that all carcinogenic chemicals have the same toxic endpoint and mechanisms of action. To the extent that these assumptions are incorrect, the actual risks could be underestimated or overestimated.

5.3 Conclusion

Actual risk reduction does not follow simple mathematical functions and, even in the best of circumstances, can only estimate ranges of effectiveness, not single values at each point. Despite the differences in the approaches to the alternatives, each alternative focused on cleaning up contaminated soils within Area IV and NBZ to a level that allows for the protection of human health and the environment.

Overall, this analysis provides a range of possibilities the risk manager can use to address risks and hazards at the site. This range allows the risk manager to select targets for remediation that

reflect both quantitative and qualitative (uncertainty) aspects of the assessment. The results of this analysis show all three soil removal alternatives would achieve reduction of risks sufficient for the protection of human health based on the suburban residential and open space scenarios evaluated. However, because of the smaller soil removal volume under the Conservation of Natural Resources Alternative, this alternative would also minimize biological and cultural impacts and transportation impacts.

Section 6

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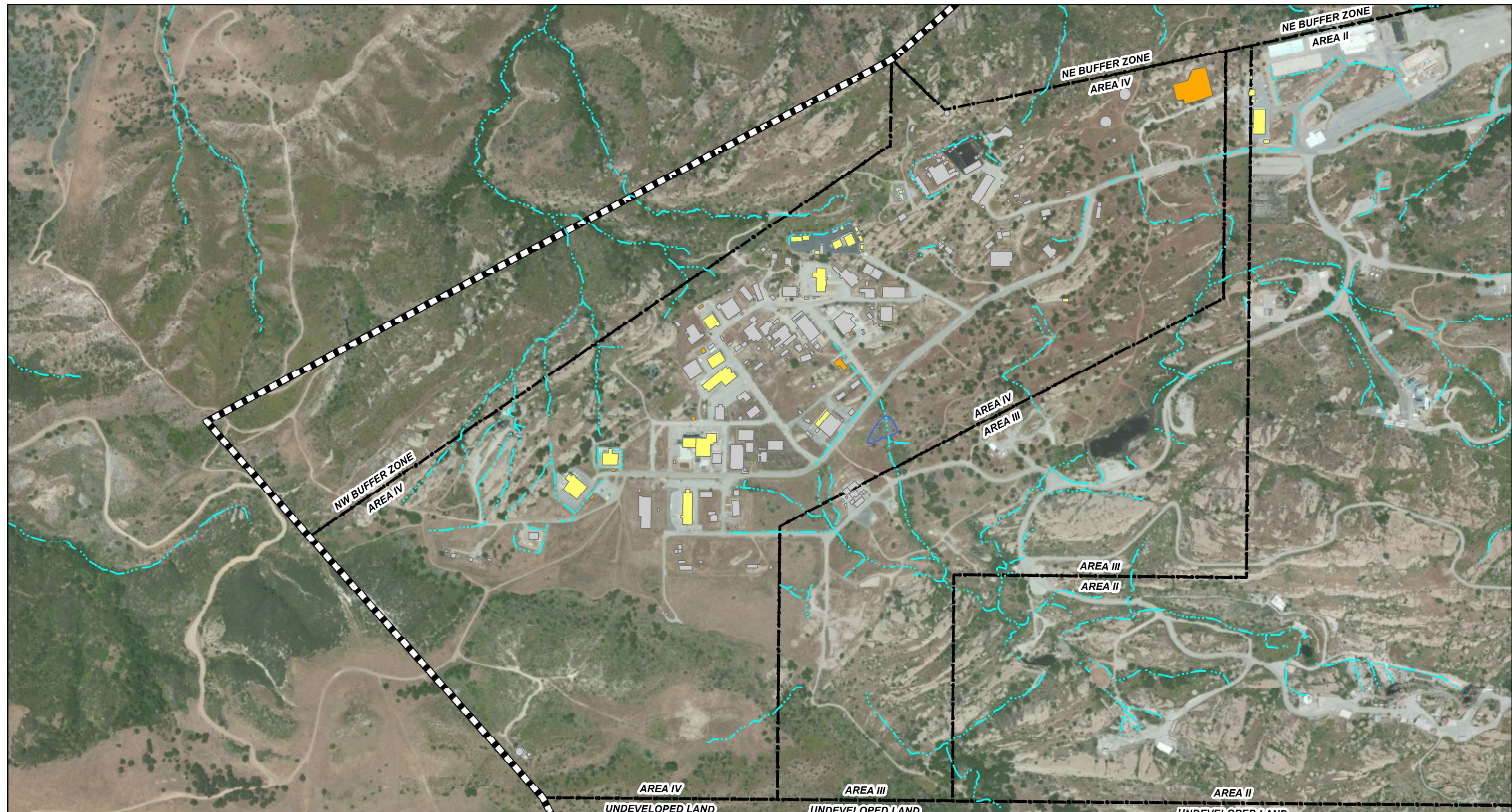
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Figures

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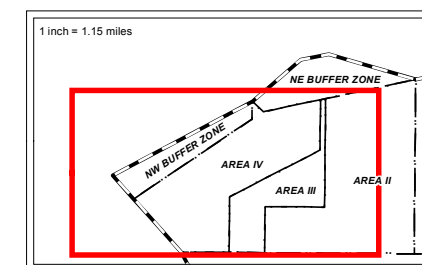
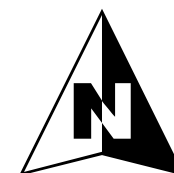
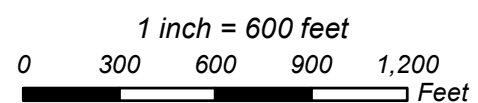


Legend

	Drainage		Former Pond		Area Boundary
	Existing Structure		Demolished Structure		SSFL Property Boundary
	Existing Substation				

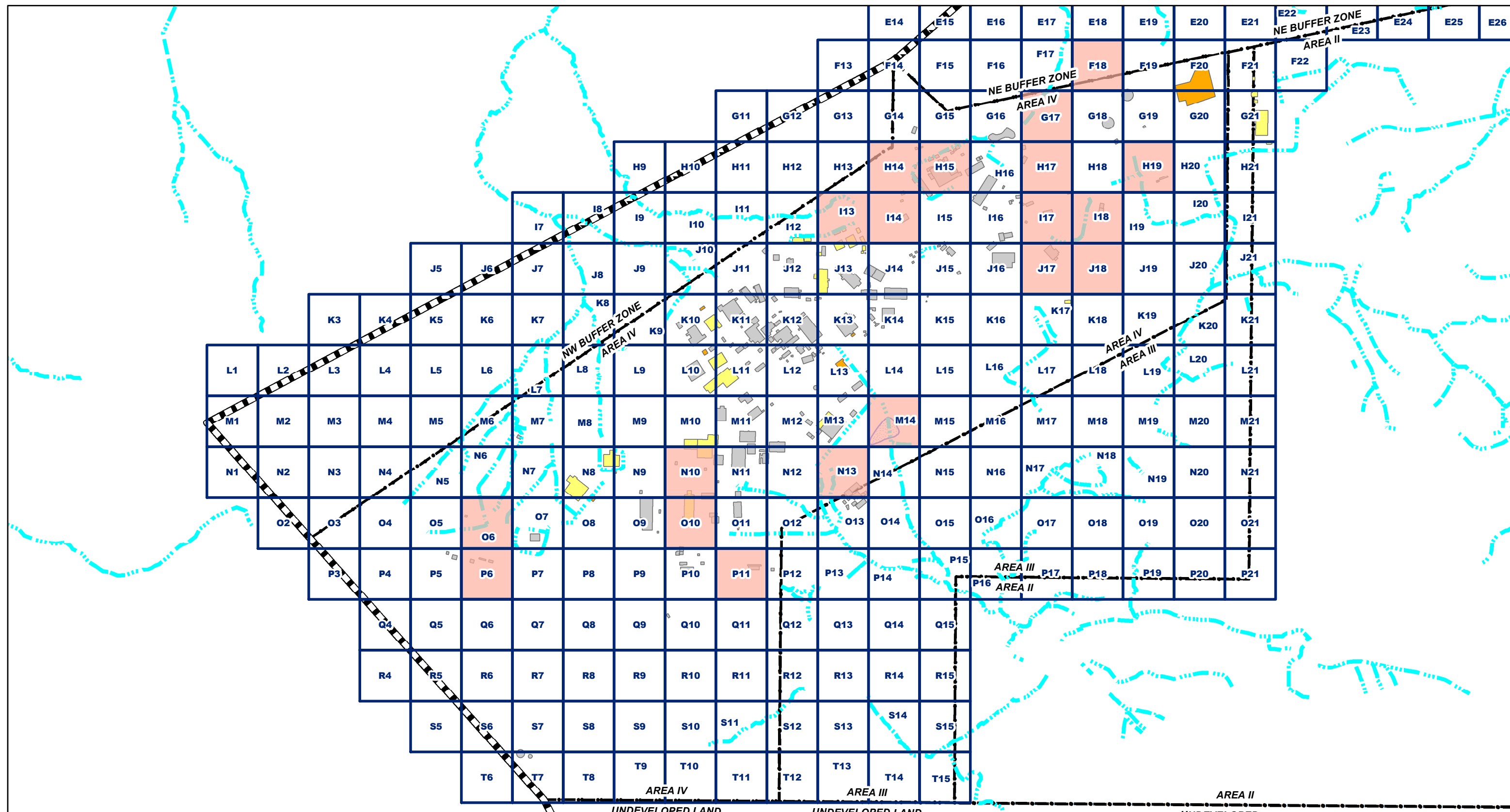
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Site Map



Santa Susana Field Laboratory
 Ventura County, California
 Figure 1-1

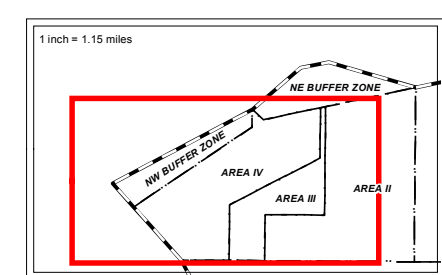
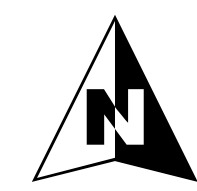
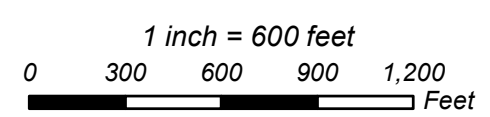




Legend

- Drainage
- Existing Structure
- Existing Substation
- Former Pond
- Demolished Structure
- Grid (100m x 100m)
- Exposure Area
- Area Boundary
- SSFL Property Boundary

Risk Assessment Exposure Areas



Santa Susana Field Laboratory
Ventura County, California
Figure 2-1



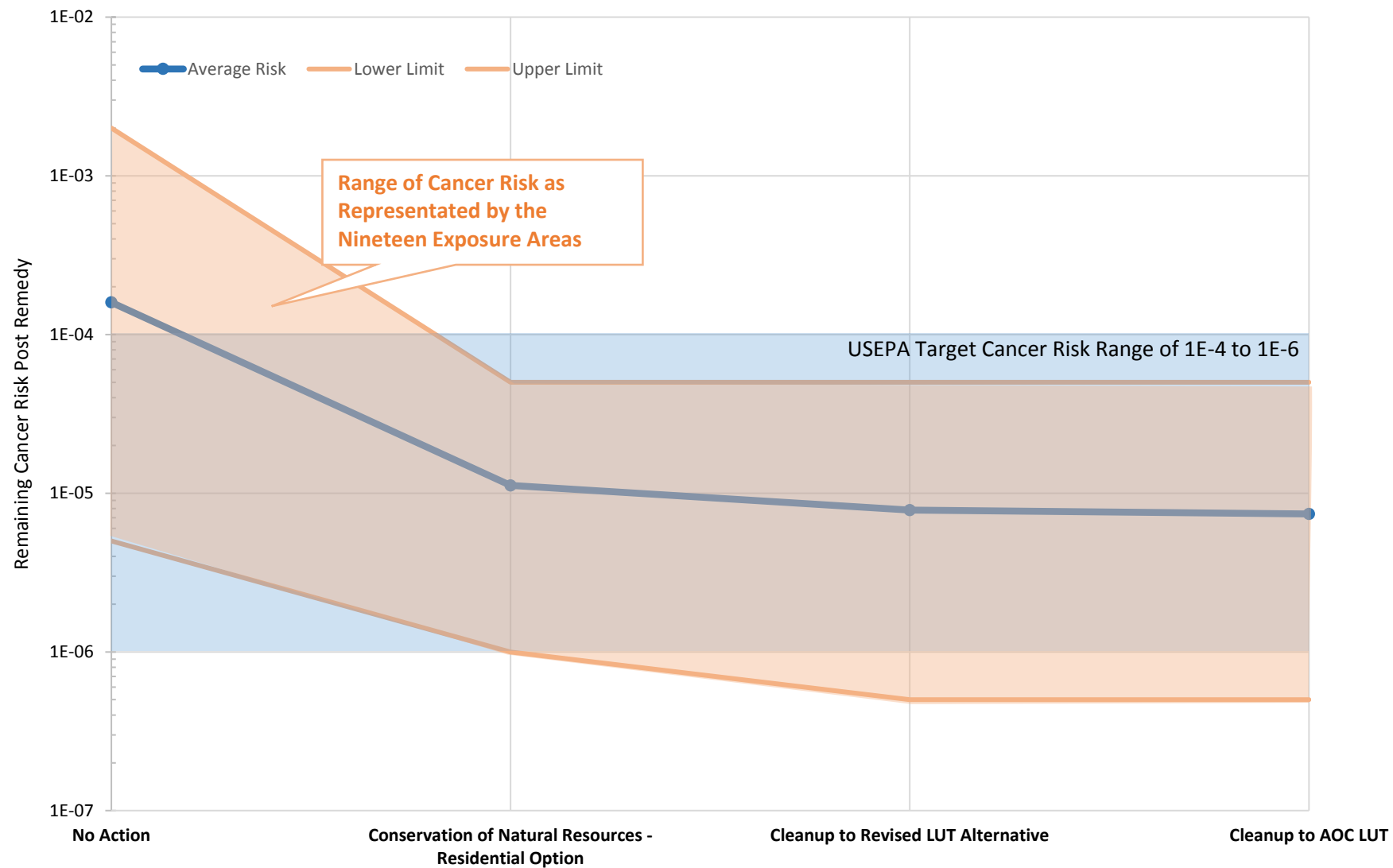


Figure 3-1 Remaining Cancer Risk for Residential Remedial Alternatives

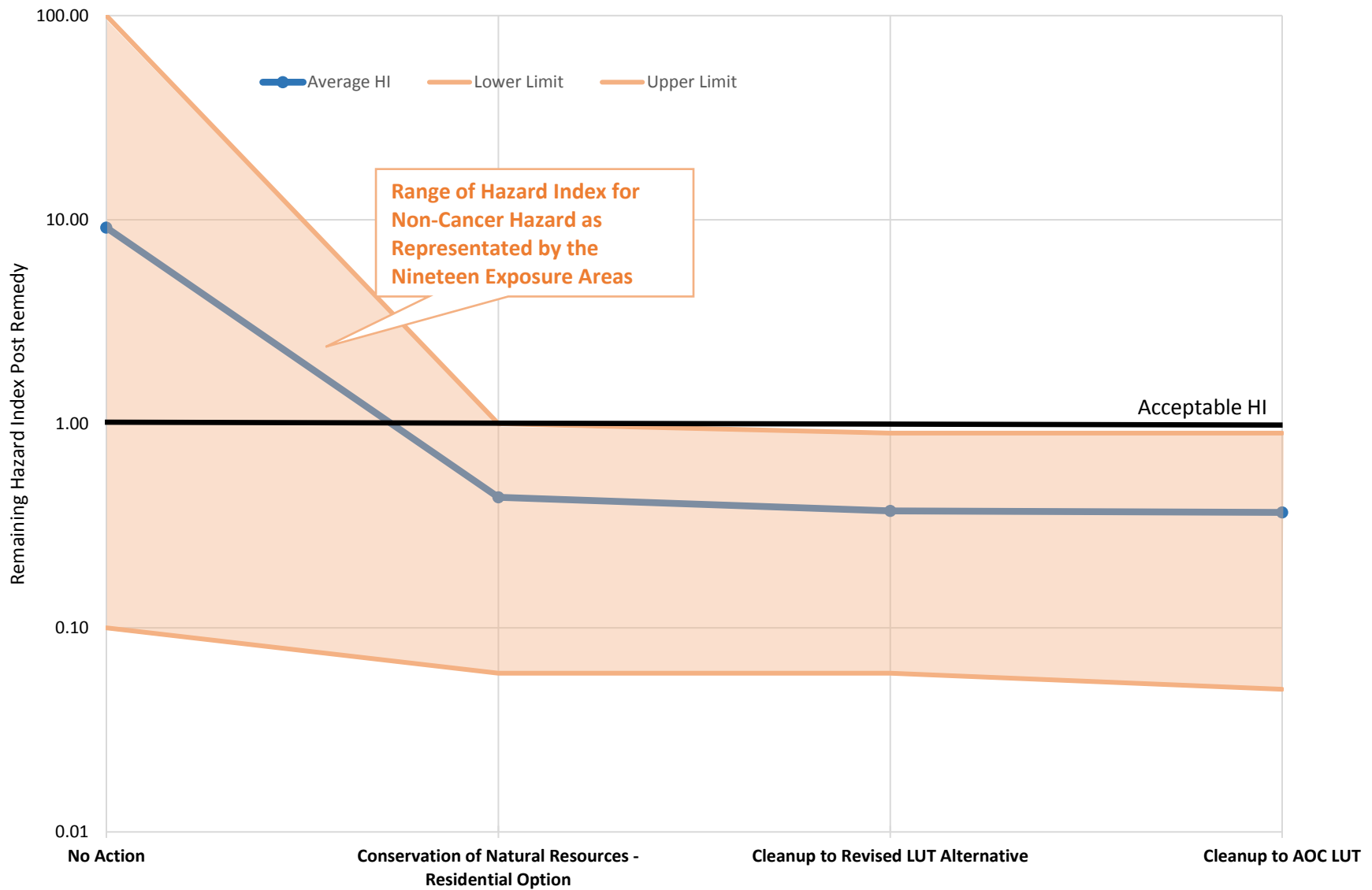
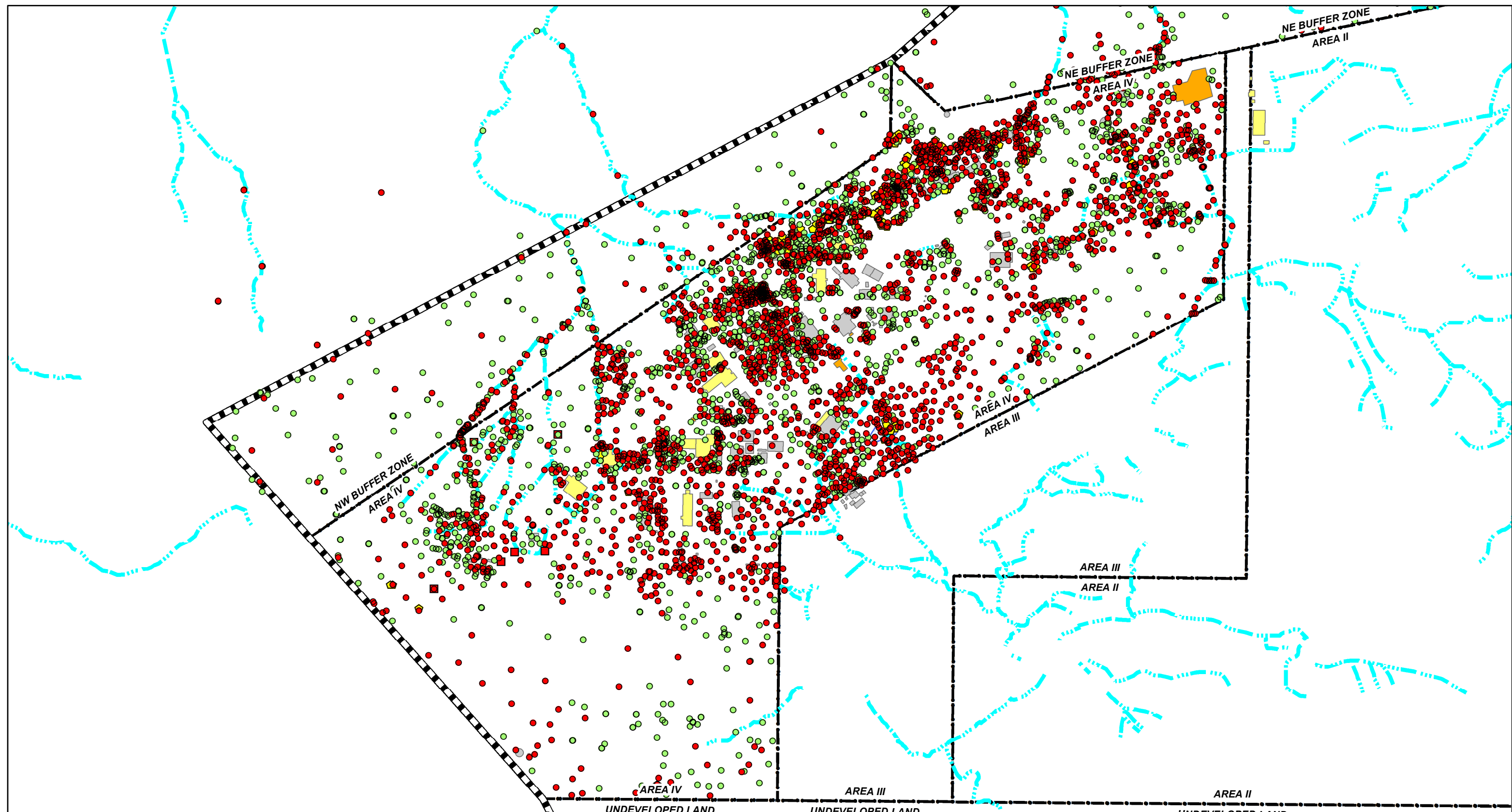


Figure 3-2 Remaining Non-Cancer Hazard for Residential Remedial Alternatives



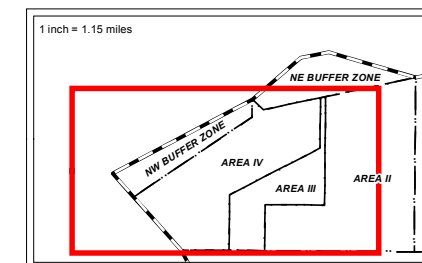
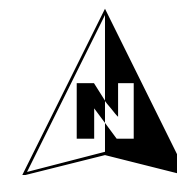
Legend

● LUT Exceedance	 Existing Structure	Area Boundary
● No LUT Exceedance	 Existing Substation	SSFL Property Boundary
■ Strontium-90 Location ≥ 1.02 pCi/g	 Former Pond	
◆ Cesium-137 Location ≥ 0.225 pCi/g	 Demolished Structure	
--- Drainage		

Locations Exceeding AOC LUT Values

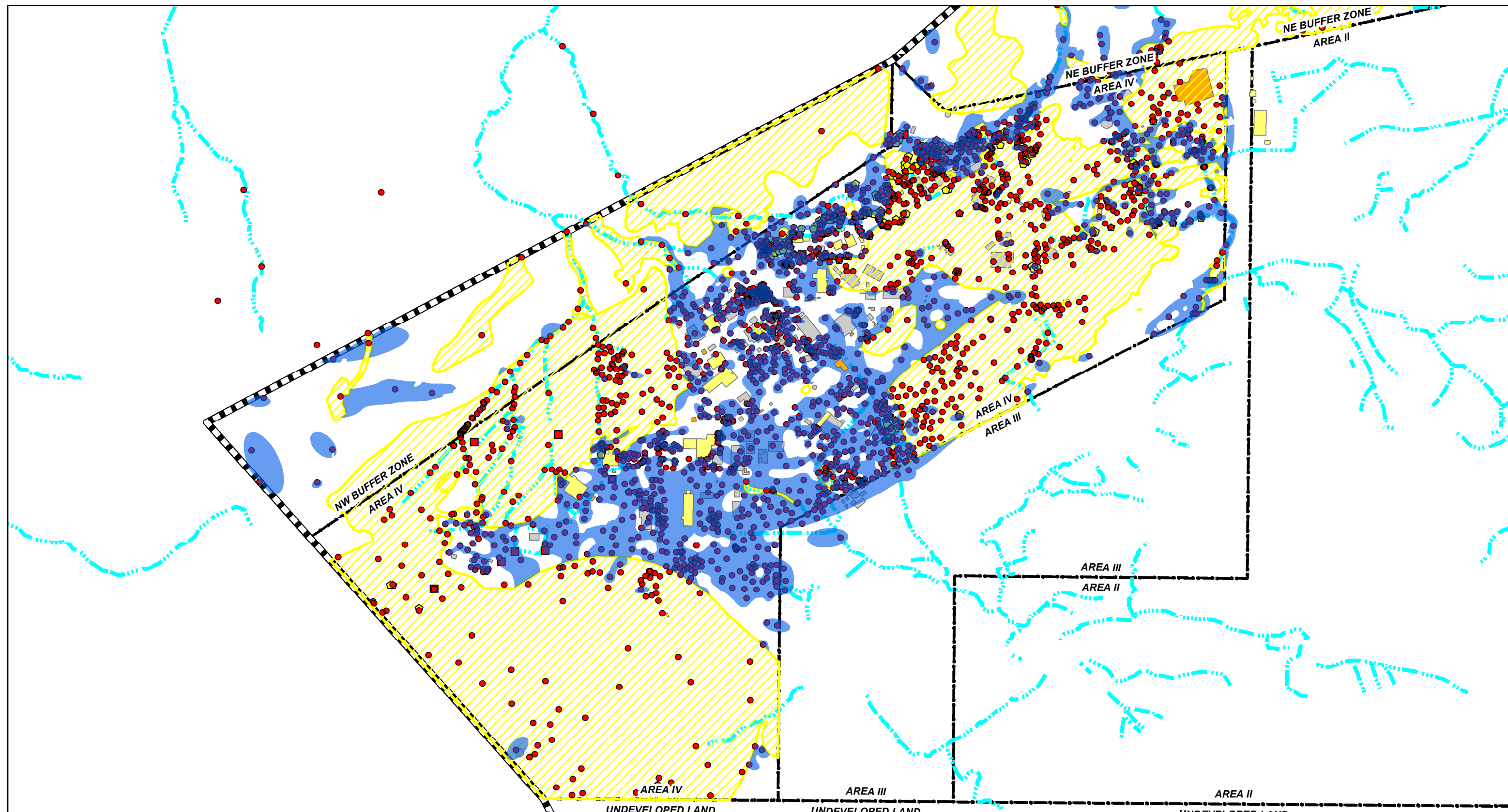
1 inch = 600 feet

0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-1

**CDM
Smith**



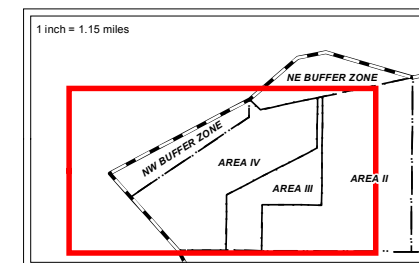
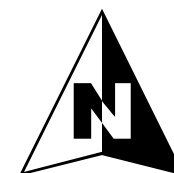
Legend

- LUT Exceedance
- Strontium-90 Location ≥ 1.02 pCi/g
- ⬠ Cesium-137 Location ≥ 0.225 pCi/g
- Drainage
- Existing Structure
- Existing Substation
- Former Pond
- Demolished Structure
- Cleanup to AOC LUT Footprint
- Exemption Area
- Area Boundary
- SSFL Property Boundary

Cleanup to AOC LUT with Exemptions Footprint

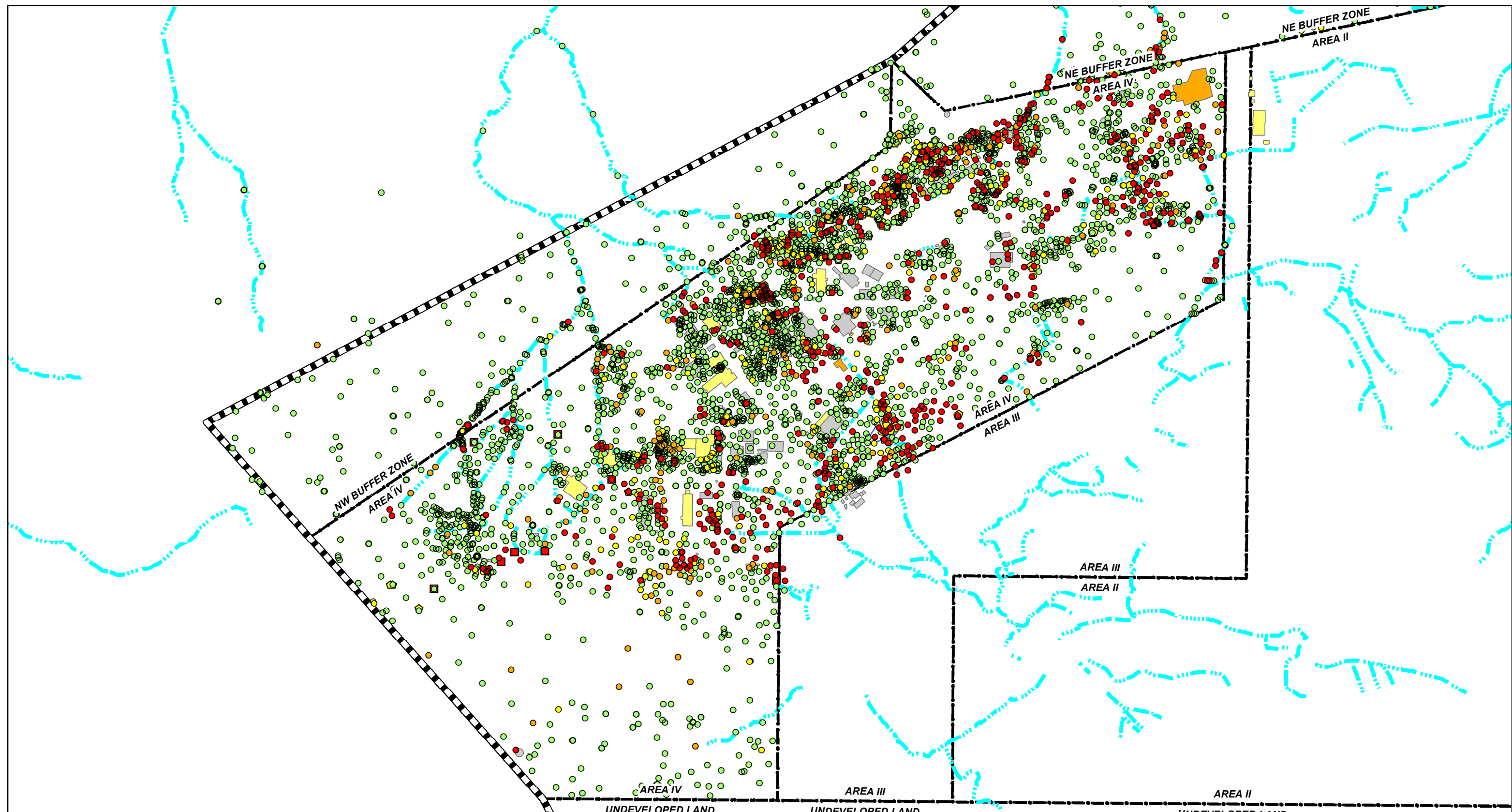
1 inch = 600 feet

0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-2

**CDM
Smith**



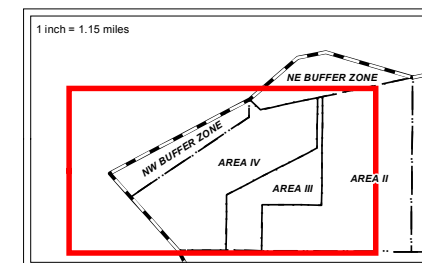
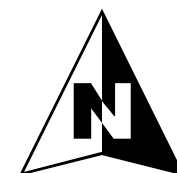
Legend

- Human health RBSL, and ecological RBSL exceedance
- Ecological RBSL exceedance
- Human health RBSL exceedance
- No RBSL exceedance
- Strontium-90 Location ≥ 1.02 pCi/g
- Cesium-137 Location ≥ 0.225 pCi/g
- Drainage
- Existing Structure
- Existing Substation
- Former Pond
- Demolished Structure
- Area Boundary
- SSFL Property Boundary

Locations Exceeding Revised LUT Values

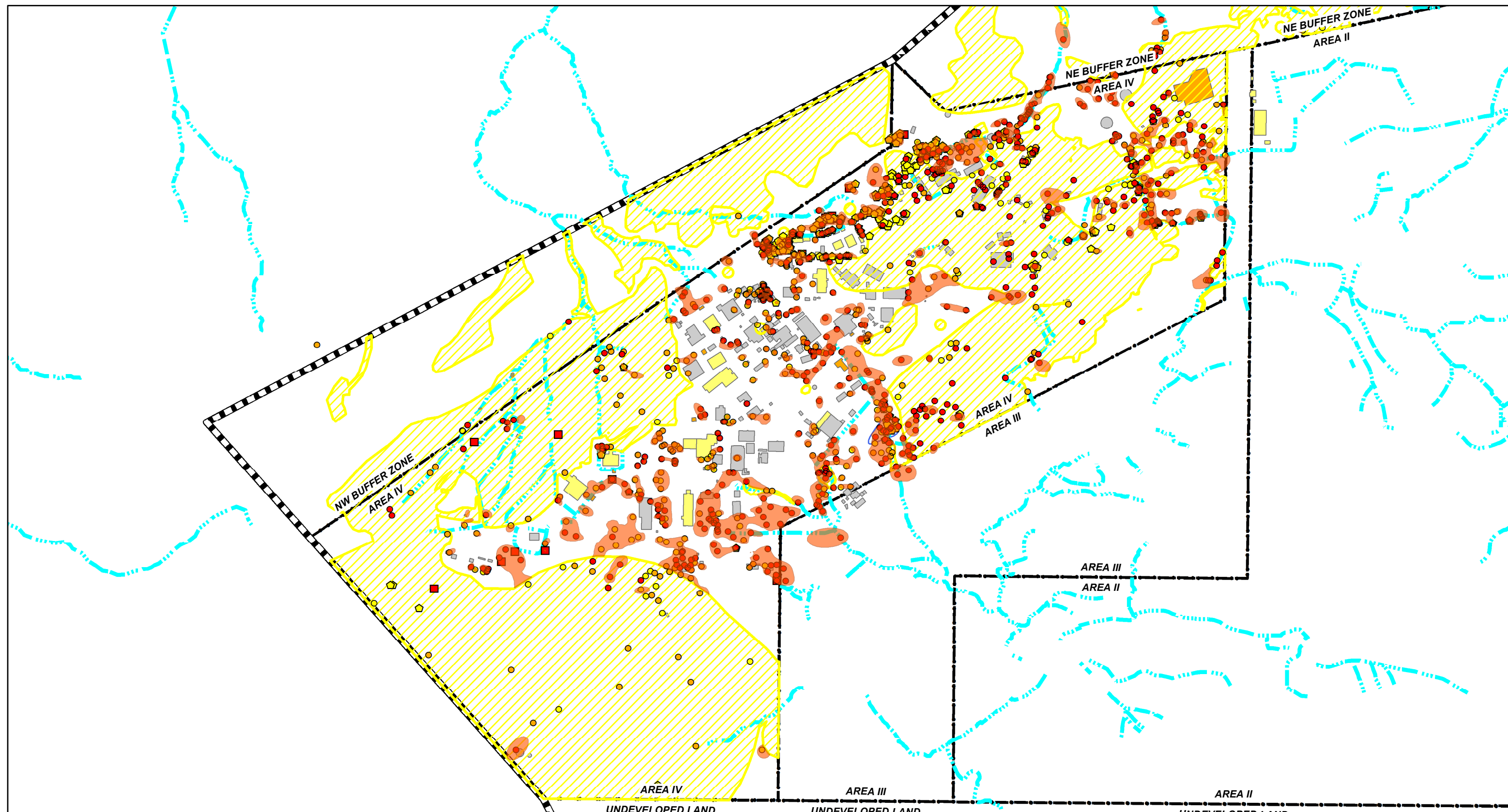
1 inch = 600 feet

0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-3

CDM
Smith



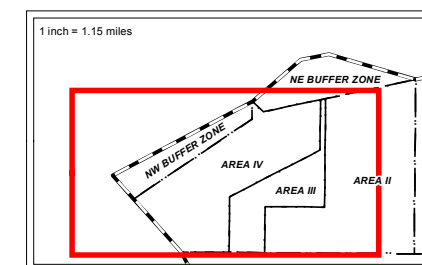
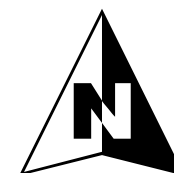
Legend

● Human health RBSL, and ecological RBSL exceedance	Existing Structure	Exemption Area
● Ecological RBSL exceedance	Existing Substation	Area Boundary
● Human health RBSL exceedance	Former Pond	SSFL Property Boundary
■ Strontium-90 Location ≥ 1.02 pCi/g	Demolished Structure	
◆ Cesium-137 Location ≥ 0.225 pCi/g	Cleanup to Revised LUT Footprint	
--- Drainage		

Cleanup to Revised LUT with Exemptions Footprint

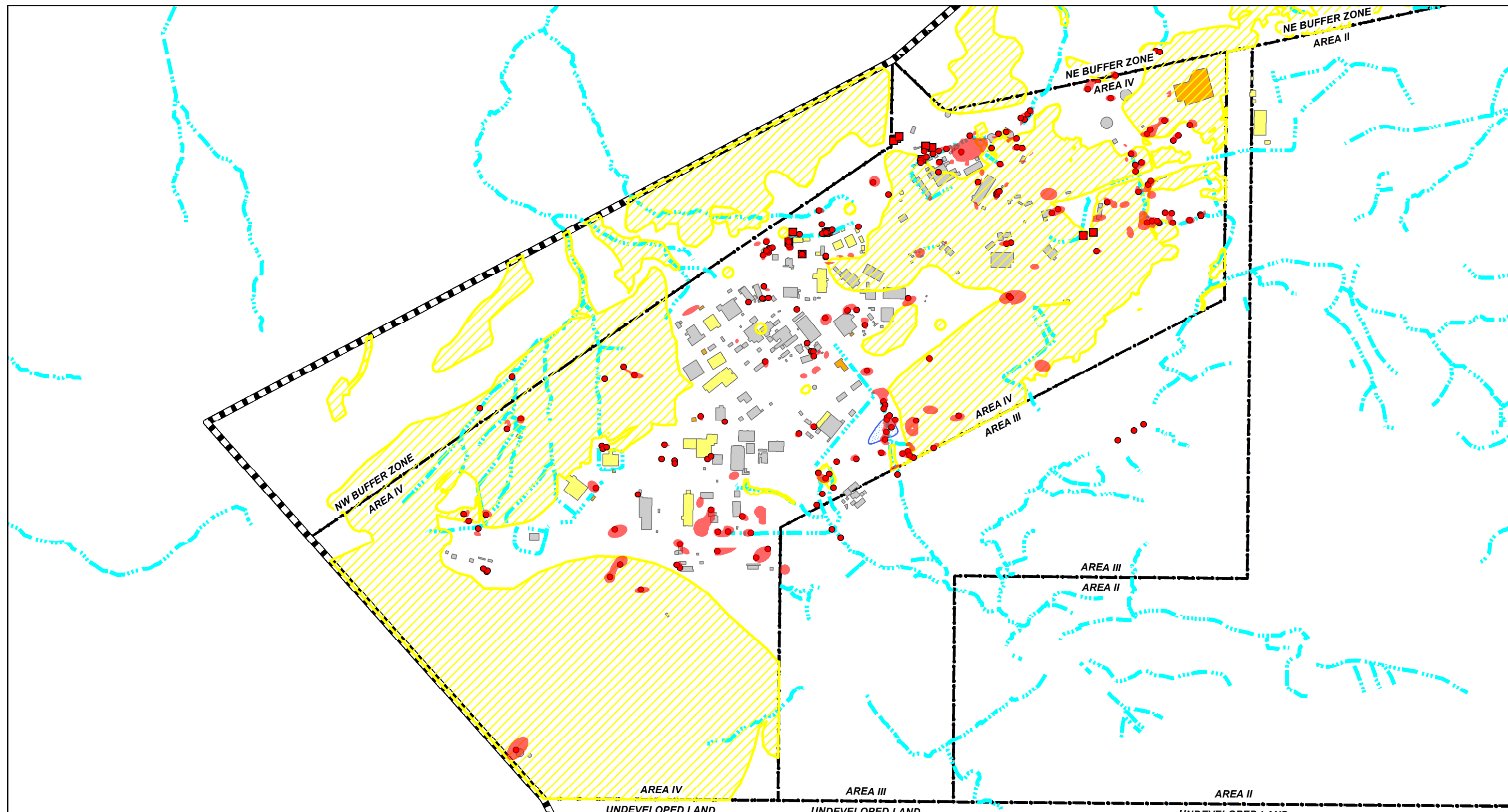
1 inch = 600 feet

0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-4

**CDM
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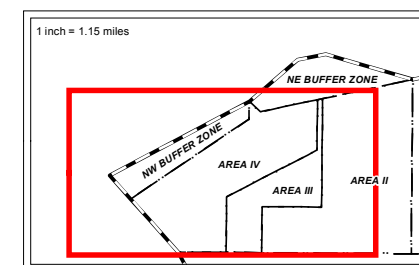
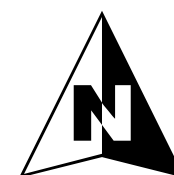


Legend

■ Res/Eco Radiological Exceedance Location	 Existing Substation	 Exemption Area
● 10x RBSL Exceedance Location (Res/Eco)	 Former Pond	 Area Boundary
--- Drainage	 Demolished Structure	 SSFL Property Boundary
 Existing Structure	 Residential Risk Footprint	

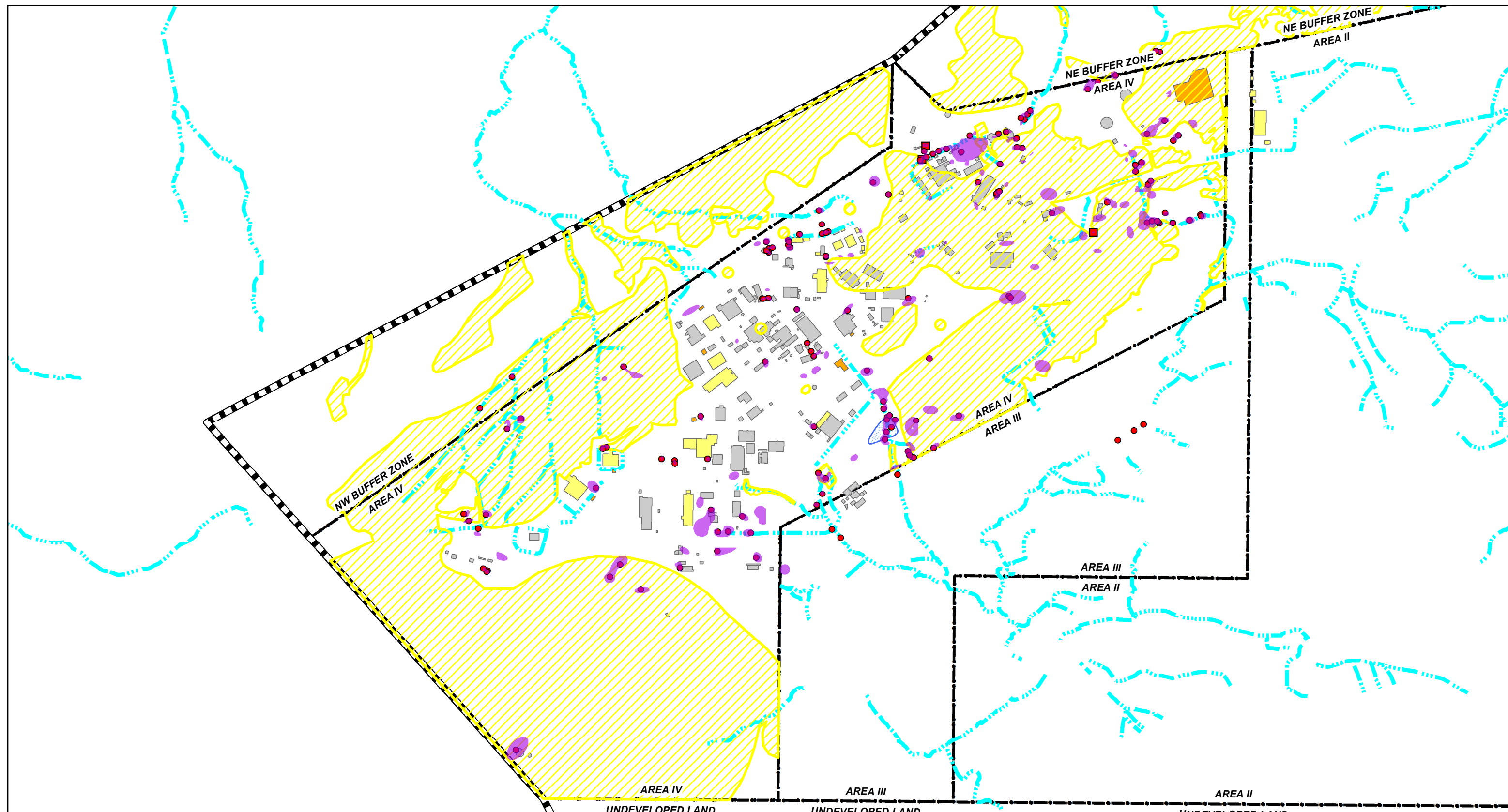
Conservation of Natural Resources Alternative – Residential Footprint

1 inch = 600 feet
0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-5





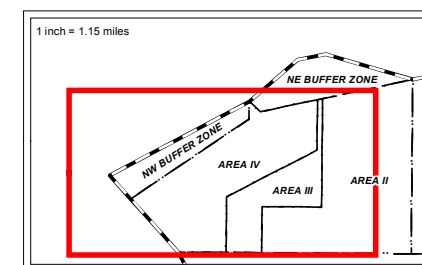
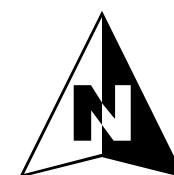
Legend

■ Rec/Eco Radiological Exceedance Location	 Existing Substation	 Exemption Area
● 10x RBSL Exceedance Location (Rec/Eco)	 Former Pond	 Area Boundary
--- Drainage	 Demolished Structure	 SSFL Property Boundary
 Existing Structure	 Open Space Risk Footprint	

Conservation of Natural Resources Alternative – Open Space Footprint

1 inch = 600 feet

0 300 600 900 1,200 Feet



Santa Susana Field Laboratory
Ventura County, California
Figure 4-6

**CDM
Smith**

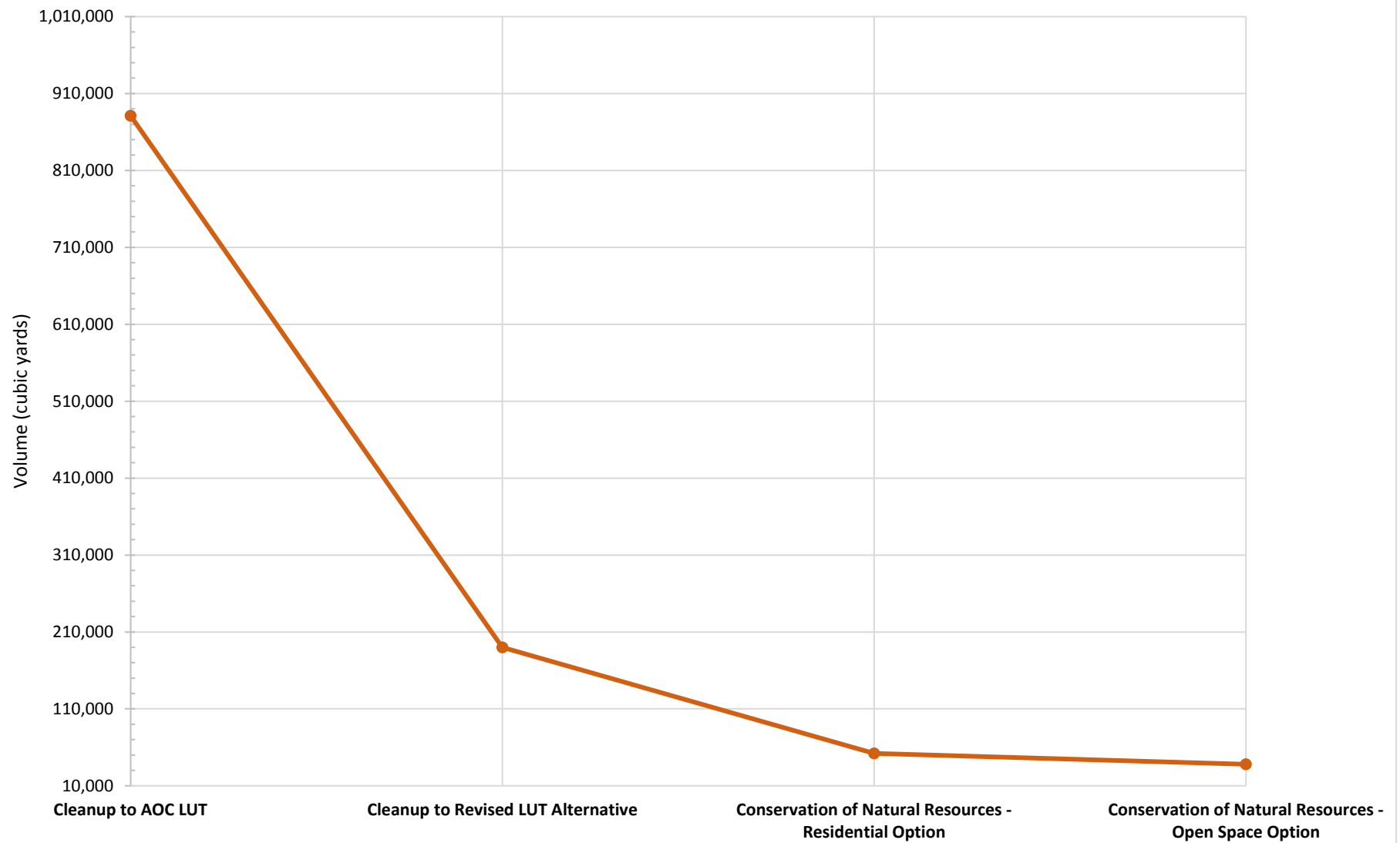


Figure 4-7 Volume Estimates for FEIS Remedial Alternatives

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Tables

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Table 2-1 Summary of LUT and RBSL Values for Risk Assessment COCs

COC	Unit	LUT Value	Residential RBSL	Recreational RBSL	Ecological RBSL
Antimony	mg/kg	0.86	26.4	123	2
Aroclor 1248	µg/kg	17	232	564	64
Aroclor 1254	µg/kg	17	232	564	390
Aroclor 1260	µg/kg	17	232	564	250
Aroclor 5460	µg/kg	50	232	564	390
Barium	mg/kg	371	11000	51900	89
Benzo(a)anthracene	µg/kg	BaP TEQ	387	939	50000
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000
Benzo(b)fluoranthene	µg/kg	BaP TEQ	387	939	150000
Benzo(k)fluoranthene	µg/kg	BaP TEQ	387	939	310000
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000
Cadmium	mg/kg	0.7	4.6	9.06	0.81
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30
Chrysene	µg/kg	BaP TEQ	3870	9390	76000
Dibenzo(a,h)anthracene	µg/kg	BaP TEQ	113	275	140000
Indeno(1,2,3-cd)pyrene	µg/kg	BaP TEQ	387	939	300000
Lead	mg/kg	49	80	360	39
MCPA	µg/kg	761	34300	160000	610
Mercury	mg/kg	0.13	16.8	78.2	1.7
Molybdenum	mg/kg	3.2	380	1780	1.3
Naphthalene	µg/kg	3.6	14600	204000	130000
Phenanthrene	µg/kg	3.9	16400000	77000000	13000
Selenium	mg/kg	1	380	1780	1.5
Silver	mg/kg	0.2	230	1070	29
BaP TEQ	µg/kg	4.47	39	93.9	310000
Dioxin TEQ	pg/g	0.912	4.81	18	5
Zinc	mg/kg	215	22800	107000	320

Notes:

mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
pg/g – picograms per gram

Table 2-2a Summary of COCs in Exposure Areas I13, H15, and M14

Exposure Area		
Grid I13 - RMHF	Grid H15 - SRE	Grid M14 - 17th Street Pond
Chemical		
Antimony Aroclor 1260 Benzo(a)pyrene Cadmium Lead Phenanthrene Total TEQ_BAP Total TEQ_Dioxin Zinc	Antimony Aroclor 1254 Aroclor 5460 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Cadmium Chromium (Hexavalent) Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Lead Mercury Molybdenum Total TEQ_BAP Total TEQ_Dioxin Zinc	Antimony Aroclor 1248 Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Bis(2-ethylhexyl)phthalate Cadmium Chromium (Hexavalent) Chrysene Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene Lead MCPA Mercury Phenanthrene Silver Total TEQ_BAP Total TEQ_Dioxin Zinc
Radionuclide		
Cobalt-60 Cesium-137 Strontium-90	Cobalt-60 Cesium-137 Plutonium-239/240 Strontium-90	Cesium-137

Table 2-2b Summary of COCs in Exposure Areas I17, I18, J17, and J18

Exposure Area			
Grid I17 - B4064 NW	Grid I18 - B4064 NE	Grid J17 - B4064 SW	Grid J18 - B4064 SE
Chemical			
Aroclor 1254	Barium	Benzo(a)pyrene	Benzo(a)pyrene
Benzo(a)pyrene	Benzo(a)pyrene	Total TEQ_BAP	Total TEQ_BAP
Total TEQ_BAP	Chromium (Hexavalent)	Total TEQ_Dioxin	
Total TEQ_Dioxin	Lead		
	Silver		
	Total TEQ_BAP		
	Total TEQ_Dioxin		
	Zinc		
Radionuclide			
Cesium-137	Cesium-137	Cesium-137	Cesium-137

Table 2-2c Summary of COCs in Exposure Areas H14, H19, N13, and O10

Exposure Area			
Grid H14	Grid H19	Grid N13	Grid O10
Chemical			
Antimony	Aroclor 1254	Aroclor 1254	Benzo(a)pyrene
Benzo(a)pyrene	Aroclor 5460	Benzo(a)pyrene	Cadmium
Naphthalene	Benzo(a)pyrene	Cadmium	MCPA
Total TEQ_BAP	Cadmium	Lead	Mercury
Total TEQ_Dioxin	Chromium (Hexavalent Compounds)	MCPA	Total TEQ_BAP
	Lead	Selenium	Total TEQ_Dioxin
	MCPA	Total TEQ_BAP	
	Mercury	Total TEQ_Dioxin	
	Total TEQ_BAP	Zinc	
	Total TEQ_Dioxin		
Radionuclide			
Cesium-137	Cesium-137		Strontium-90
Strontium-90			

Table 2-2d Summary of COCs in Exposure Areas F18, G17, H17, and I14

Exposure Area			
Grid F18	Grid G17	Grid H17	Grid I14
Chemical			
Antimony Aroclor 1254 Aroclor 1260 Aroclor 5460 Benzo(a)pyrene Cadmium Lead Mercury Total TEQ_BAP Total TEQ_Dioxin Zinc	Cadmium MCPA Mercury Total TEQ_Dioxin Zinc	Aroclor 1254 Aroclor 5460 Cadmium Total TEQ_Dioxin	Aroclor 1254 Aroclor 1260 Aroclor 5460 Cadmium Total TEQ_Dioxin
Radionuclide			
	Cesium-137 Plutonium-239/240	Cesium-137 Plutonium-239/240	Cesium-137 Strontium-90

Table 2-2e Summary of COCs in Exposure Areas N10, O6, P6, and P11

Exposure Area			
Grid N10	Grid O6	Grid P6	Grid P11
Chemical			
Antimony	Aroclor 1254	Antimony	Benzo(a)pyrene
Benzo(a)pyrene	Aroclor 5460	Benzo(a)pyrene	Cadmium
Cadmium	Benzo(a)pyrene	Cadmium	MCPA
Chromium (Hexavalent)	Total TEQ_BAP	Lead	Total TEQ_BAP
Lead	Total TEQ_Dioxin	Total TEQ_BAP	Total TEQ_Dioxin
Total TEQ_BAP		Total TEQ_Dioxin	
Total TEQ_Dioxin			
Radionuclide			
Strontium-90	Strontium-90	Cesium-137	Cesium-137
		Strontium-90	Strontium-90

Table 2-3a Summary of Parameters for Radionuclide PRG Calculation - Resident

Parameter	Units	RESRAD Default Value	SRAM Value	RESRAD Site Specific Values Used	Rationale
Contaminated Zone					
Area of contaminated zone	m ²	100,000	Dependent on assumed exposure area	10,000	Area assumed to conservatively represent Residential Conditions
Thickness of contaminated zone	m	2	Considered all Depths	0.5	Typical contamination depth based on sampling data
Fraction of contamination that is submerged	unitless	0	NA	0	RESRAD Default
Length parallel to aquifer flow	m	100	NA	100	Not applicable to pathways used
Basic radiation dose limit	mrem/yr	25	NA	12	EPA/DOE Maximum Guideline level
Time since placement of material	yr	0	NA	0	No decay was assumed. Ingrowth of Natural Decay daughters will have to be handled separately
Times for calculation	yr	0, 1, 30, 100, 300, 1000	NA	0	The zero time was used to represent current conditions. Ingrowth daughters will have to be calculated separately. 100 yr loss of institutional control will also have to be calculated separately
Cover and Contaminated Zone Hydrological Data					
Initial principal radionuclide	pCi/g	area-specific	area-specific	area-specific	All radionuclides exceeding FALs by subarea
Concentration in groundwater	pCi/L	not- used	not- used	not- used	Not applicable to pathways used
Cover depth	m	0	NA	0	no cover assumed
Density of cover material	g/cm ³	1.5	1.5	not- used	no cover assumed
Cover erosion rate	m/yr	0.001	NA	not- used	no cover assumed
Density of contaminated zone	g/cm ³	1.5	1.5	1.5	RESRAD Default
Contaminated zone erosion rate	m/yr	0.001	0	0.001	Not applicable to 0 time
Contaminated zone total porosity	unitless	0.4	0.43	0.4	Not applicable to pathways used and 0 time
Contaminated zone field capacity	unitless	0.2	NA	0.2	Not applicable to pathways used and 0 time
Contaminated zone hydraulic conductivity	m/yr	10	NA	10	Not applicable to pathways used and 0 time
Contaminated zone b parameter	unitless	5.3	NA	5.3	Not applicable to pathways used and 0 time
Average annual wind speed	m/sec	2	4.69 (EPA 2001 Soil Screening Guidance default for default PEF)	2	RESRAD Default SRAM PEF value used for mass loading
Humidity in air (g/m**3)	g/m ³	8	NA	8	RESRAD Default
Evapotranspiration coefficient	unitless	0.5	NA	NA	Not applicable to pathways used
Precipitation	m/yr	1	NA	NA	Not applicable to pathways used
Irrigation rate	m/yr	0.2	NA	NA	Not applicable to pathways used
Irrigation mode	unitless	overhead	NA	NA	Not applicable to pathways used
Runoff coefficient	unitless	0.2	NA	NA	Not applicable to pathways used
Watershed area for nearby stream or pond	m ²	1.00E+06	NA	NA	Not applicable to pathways used
Accuracy for water/soil computations	unitless	1.00E-03	NA	NA	Not applicable to pathways used
Exposure Assumptions					
Exposure Duration	years	30	26 (20 adult, 6 child)	26 (20 adult, 6 child)	time weighted child/adult
Fraction of time spent indoors	unitless	0.5	NA	0.639	SRAM assumption of total 24 hours/day, 350 days per year with RESRAD default indoor/outdoor ratio applied
Fraction of time spent outdoors	unitless	0.25	NA	0.32	SRAM assumption of total 24 hours/day 350 days per year with RESRAD default indoor/outdoor ratio applied
Exposure Time	hr/day	18	8 (75 day/yr)	adjusted	Fraction of time above corrected for SRAM 24 hours/day, 350 days per year
Shielding factor, external gamma	unitless	0.7	NA	0.7	RESRAD Default
Shape factor flag, external gamma	unitless	1	NA	1	RESRAD Default

Table 2-3a Summary of Parameters for Radionuclide PRG Calculation - Resident

Parameter	Units	RESRAD Default Value	SRAM Value	RESRAD Site Specific Values Used	Rationale
Inhalation					
Inhalation Rate	m ³ /year	8400	0.55 / 0.35 m ³ per hour	4468	SRAM time weighted child/adult
Mass loading for Inhalation	g/m ³	0.0001	1.36E+09 mg ³ /kg	7.35E-07	Based on SRAM PEF
Shielding factor, inhalation	unitless	0.4	NA	0.4	RESRAD Default
Soil Ingestion					
Soil ingestion rate	g/yr	36.5		NA	Adult
Soil ingestion rate -adult	mg/day	NA	100	NA	Adult
Soil ingestion rate -child	mg/day	NA	200	NA	Child
Soil ingestion rate -time weighted average	g/yr	NA	43.8	43.8	SRAM time weighted child/adult
Fruit and Vegetable Ingestion					
Fruits, vegetables and grain consumption	kg/yr	160	Not grouped the same	NA	Not applicable to pathways used
Leafy vegetable consumption	kg/yr	14	Not grouped the same	NA	Not applicable to pathways used
Fruit ingestion rate	kg/day	NA	0.3773(adult), 0.08145(child)	NA	Not applicable to pathways used
Fruit ingestion rate, time weighted average	kg-year/kg-day	NA	0.1619	NA	Not applicable to pathways used
Vegetable ingestion rate	kg/day	NA	0.3248(adult), 0.0849(child)	NA	Not applicable to pathways used
Vegetable ingestion rate, time weighted average	kg-year/kg-day	NA	0.1453	NA	Not applicable to pathways used
Contamination fraction of plant food	unitless	0.5	1	NA	Not applicable to pathways used
Mass loading for foliar deposition	g/m ³	0.0001	0.26 ?	NA	Not applicable to pathways used
Depth of soil mixing layer	m	0.15	NA	NA	Not applicable to pathways used
Depth of roots	m	0.9	NA	NA	Not applicable to pathways used
Irrigation fraction from groundwater	unitless	1	NA	NA	Not applicable to pathways used
Summary of Pathway Selections					
External gamma		active	complete	active	Not applicable to pathways used
Inhalation (w/o radon)		active	complete	active	Not applicable to pathways used
Plant ingestion		active	incomplete	suppressed	Not applicable to pathways used
Meat ingestion		active	incomplete	suppressed	Not applicable to pathways used
Milk ingestion		active	incomplete	suppressed	Not applicable to pathways used
Aquatic foods		active	incomplete	suppressed	Not applicable to pathways used
Drinking water		active	incomplete	suppressed	Not applicable to pathways used
Soil ingestion		active	complete	active	Not applicable to pathways used
Radon		suppressed	incomplete	suppressed	Not applicable to pathways used

Notes:

NA = Not Applicable or Not Available

g/cm³ – grams per cubic centimeter

g/m³ – grams per cubic meter

g/yr – grams per year

hr/day – hours per day

kg/day – kilograms per day

kg/yr – kilograms per year

kg-year/kg-day – kilogram year of age per kilogram body weight per day

m – meters

m² – square meters

m/sec – meters per second

m/yr – meters per year

m³/year – cubic meters per year

mg/day – milligrams per day

mrem/yr – millirem per year

pCi/g – picocuries per gram

pCi/L – picocuries per liter

yr – years

Table 2-3b Summary of Parameters for Radionuclide PRG Calculation - Recreational Visitor

Parameter	Units	RESRAD Default Value	SRAM Value	RESRAD Site Specific Values Used	Rationale
Contaminated Zone					
Area of contaminated zone	m ²	100,000	Dependent on assumed exposure area	10,000	Area assumed to conservatively represent Residential Conditions
Thickness of contaminated zone	m	2	Considered all Depths	0.5	Typical contamination depth based on sampling data
Fraction of contamination that is submerged	unitless	0	NA	0	RESRAD Default
Length parallel to aquifer flow	m	100	NA	100	Not applicable to pathways used
Basic radiation dose limit	mrem/yr	25	NA	12	EPA/DOE Maximum Guideline level
Time since placement of material	yr	0	NA	0	No decay was assumed. Ingrowth of Natural Decay daughters will have to be handled separately
Times for calculation	yr	0, 1, 30, 100, 300, 1000	NA	0	The zero time was used to represent current conditions. Ingrowth daughters will have to be calculated separately. 100 yr loss of institutional control will also have to be calculated separately
Cover and Contaminated Zone Hydrological Data					
Initial principal radionuclide	pCi/g	area-specific	area-specific	area-specific	All radionuclides exceeding FALs by subarea
Concentration in groundwater	pCi/L	not- used	not- used	not- used	Not applicable to pathways used
Cover depth	m	0	NA	0	no cover assumed
Density of cover material	g/cm ³	1.5	1.5	not- used	no cover assumed
Cover erosion rate	m/yr	0.001	NA	not- used	no cover assumed
Density of contaminated zone	g/cm ³	1.5	1.5	1.5	RESRAD Default
Contaminated zone erosion rate	m/yr	0.001	0	0.001	Not applicable to 0 time
Contaminated zone total porosity	unitless	0.4	0.43	0.4	Not applicable to pathways used and 0 time
Contaminated zone field capacity	unitless	0.2	NA	0.2	Not applicable to pathways used and 0 time
Contaminated zone hydraulic conductivity	m/yr	10	NA	10	Not applicable to pathways used and 0 time
Contaminated zone b parameter	unitless	5.3	NA	5.3	Not applicable to pathways used and 0 time
Average annual wind speed	m/sec	2	4.69 (EPA 2001 Soil Screening Guidance default for default PEF)	2	RESRAD Default SRAM PEF value used for mass loading
Humidity in air (g/m**3)	g/m ³	8	NA	8	RESRAD Default
Evapotranspiration coefficient	unitless	0.5	NA	NA	Not applicable to pathways used
Precipitation	m/yr	1	NA	NA	Not applicable to pathways used
Irrigation rate	m/yr	0.2	NA	NA	Not applicable to pathways used
Irrigation mode	unitless	overhead	NA	NA	Not applicable to pathways used
Runoff coefficient	unitless	0.2	NA	NA	Not applicable to pathways used
Watershed area for nearby stream or pond	m ²	1.00E+06	NA	NA	Not applicable to pathways used
Accuracy for water/soil computations	unitless	1.00E-03	NA	NA	Not applicable to pathways used
Exposure Assumptions					
Exposure Duration	years	30	26 (20 adult, 6 child)	26 (20 adult, 6 child)	time weighted child/adult
Fraction of time spent indoors	unitless	0.5	NA	0	SRAM assumption
Fraction of time spent outdoors	unitless	0.25	NA	0.07	SRAM assumption of total 8 hours/day 75 days per year
Exposure Time	hr/day	18	8 (75 day/yr)	adjusted	Fraction of time above corrected for SRAM 8 hours/day, 75 days per year
Shielding factor, external gamma	unitless	0.7	NA	0.7	RESRAD Default
Shape factor flag, external gamma	unitless	1	NA	1	RESRAD Default

Table 2-3b Summary of Parameters for Radionuclide PRG Calculation - Recreational Visitor

Parameter	Units	RESRAD Default Value	SRAM Value	RESRAD Site Specific Values Used	Rationale
Inhalation					
Inhalation Rate	m ³ /year	8400	NA	14,000	EPA (1997). Exposure factors handbook, recreational breathing rate.
Mass loading for Inhalation	g/m ³	0.0001	1.36E+09 mg ³ /kg	7.35E-07	Based on SRAM PEF
Shielding factor, inhalation	unitless	0.4	NA	0.4	RESRAD Default
Soil Ingestion					
Soil ingestion rate	g/yr	36.5		NA	Adult
Soil ingestion rate -adult	mg/day	NA	100	NA	Adult
Soil ingestion rate -child	mg/day	NA	200	NA	Child
Soil ingestion rate -time weighted average	g/yr	NA	43.1	9.2	SRAM time weighted child/adult
Fruit and Vegetable Ingestion					
Fruits, vegetables and grain consumption	kg/yr	160	Not grouped the same	NA	Not applicable to pathways used
Leafy vegetable consumption	kg/yr	14	Not grouped the same	NA	Not applicable to pathways used
Fruit ingestion rate	kg/day	NA	0.3773(adult), 0.08145(child)	NA	Not applicable to pathways used
Fruit ingestion rate, time weighted average	kg-year/kg-day	NA	0.1619	NA	Not applicable to pathways used
Vegetable ingestion rate	kg/day	NA	0.3248(adult), 0.0849(child)	NA	Not applicable to pathways used
Vegetable ingestion rate, time weighted average	kg-year/kg-day	NA	0.1453	NA	Not applicable to pathways used
Contamination fraction of plant food	unitless	0.5	1	NA	Not applicable to pathways used
Mass loading for foliar deposition	g/m ³	0.0001	0.26 ?	NA	Not applicable to pathways used
Depth of soil mixing layer	m	0.15	NA	NA	Not applicable to pathways used
Depth of roots	m	0.9	NA	NA	Not applicable to pathways used
Irrigation fraction from groundwater	unitless	1	NA	NA	Not applicable to pathways used
Summary of Pathway Selections					
External gamma		active	complete	active	Not applicable to pathways used
Inhalation (w/o radon)		active	complete	active	Not applicable to pathways used
Plant ingestion		active	incomplete	suppressed	Not applicable to pathways used
Meat ingestion		active	incomplete	suppressed	Not applicable to pathways used
Milk ingestion		active	incomplete	suppressed	Not applicable to pathways used
Aquatic foods		active	incomplete	suppressed	Not applicable to pathways used
Drinking water		active	incomplete	suppressed	Not applicable to pathways used
Soil ingestion		active	complete	active	Not applicable to pathways used
Radon		suppressed	incomplete	suppressed	Not applicable to pathways used

Notes:

NA = Not Applicable or Not Available

g/cm³ – grams per cubic centimeter

g/m³ – grams per cubic meter

g/yr – grams per year

hr/day – hours per day

kg/day – kilograms per day

kg/yr – kilograms per year

kg-year/kg-day – kilogram year of age per kilogram body weight per day

m – meters

m² – square meters

m/sec – meters per second

m/yr – meters per year

m³/year – cubic meters per year

mg/day – milligrams per day

mrem/yr – millirem per year

pCi/g – picocuries per gram

pCi/L – picocuries per liter

yr – years

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
RMHF Grid I13	Aroclor 1260	0.0528	0.0524	2E-07	2E-07	5E-02	5E-02	1E-03	1E-03	1E-04	1E-04	2E-01	2E-01
	Benzo(a)pyrene	0.821	0.0231	2E-05	6E-07	NC	NC	5E-01	2E-02	5E-02	1E-03	3E-03	7E-05
	Total TEQ_BAP	2.62	0.0639	7E-05	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.22E-05	5.81E-06	3E-06	1E-06	2E-01	1E-01	NC	NC	NC	NC	2E+00	1E+00
	Antimony	64.4	0.719	NC	NC	2E+00	3E-02	1E+01	1E-01	8E-01	9E-03	3E+01	4E-01
	Cadmium	0.736	0.687	9E-10	8E-10	2E-01	1E-01	2E-02	2E-02	5E-03	5E-03	9E-01	8E-01
	Lead	1916	18.2	NC	NC	2E+01	2E-01	2E+01	2E-01	1E+00	1E-02	5E+01	5E-01
	Phenanthrene	1.55	0.0605	NC	NC	9E-05	4E-06	1E+00	5E-02	5E-02	2E-03	4E-03	2E-04
	Zinc	241	208	NC	NC	1E-02	9E-03	2E+00	1E+00	2E+00	2E+00	6E-01	5E-01
	Cobalt-60	0.00427	0.00365	4E-07	3E-07	NC	NC	6E-06	5E-06	NC	NC	NC	NC
	Cesium-137	1.39	0.995	3E-05	2E-05	NC	NC	7E-02	5E-02	NC	NC	NC	NC
	Strontium-90	2.442	2.439	7E-07	7E-07	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-05	3E-06								
	Total Radiological Risk/HI			3E-05	2E-05								
	Total Chemical and Rad Risk/HI			1E-04	2E-05	3E+01	6E-01						
SRE Grid H15	Aroclor 1254	0.07	0.03	3E-07	1E-07	6E-02	2E-02	2E-03	7E-04	1E-04	5E-05	2E-01	7E-02
	Aroclor 5460	0.56	0.06	2E-06	3E-07	5E-01	5E-02	1E-02	1E-03	1E-03	1E-04	1E+00	1E-01
	Total TEQ_BAP	0.60	0.12	2E-05	3E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.40E-05	3.51E-06	1E-05	7E-07	1E+00	7E-02	NC	NC	NC	NC	1E+01	7E-01
	Benzo(a)anthracene	0.269	0.0220	7E-07	6E-08	NC	NC	2E-01	1E-02	1E-02	1E-03	5E-03	4E-04
	Benzo(a)pyrene	0.285	0.0238	7E-06	6E-07	NC	NC	2E-01	2E-02	2E-02	1E-03	9E-04	8E-05
	Benzo(b)fluoranthene	0.457	0.0257	1E-06	7E-08	NC	NC	4E-01	2E-02	3E-02	1E-03	3E-03	2E-04
	Benzo(k)fluoranthene	0.231	0.00953	6E-07	2E-08	NC	NC	2E-01	8E-03	1E-02	5E-04	7E-04	3E-05
	Dibenzo(a,h)anthracene	0.031	0.00897	3E-07	8E-08	NC	NC	3E-02	7E-03	2E-03	5E-04	2E-04	6E-05
	Indeno(1,2,3-cd)pyrene	0.178	0.0184	5E-07	5E-08	NC	NC	1E-01	2E-02	1E-02	1E-03	6E-04	6E-05
	Chromium (Hexavalent)	2.00	1.43	2E-06	1E-06	9E-03	6E-03	7E-02	5E-02	1E+00	7E-01	5E-02	4E-02
	Lead	16.4	15.6	NC	NC	2E-01	2E-01	1E-01	1E-01	1E-02	9E-03	4E-01	4E-01
	Mercury	4.61	0.218	NC	NC	3E-01	1E-02	2E+01	7E-01	5E+01	2E+00	3E+00	1E-01
	Antimony	0.619	0.488	NC	NC	2E-02	2E-02	1E-01	1E-01	8E-03	6E-03	3E-01	2E-01
	Cadmium	0.888	0.479	1E-09	5.7E-10	2E-01	1E-01	3E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Molybdenum	3.22	0.863	NC	NC	8E-03	2E-03	2E+00	4E-01	NC	NC	1E+00	3E-01
	Zinc	228	146	NC	NC	1E-02	6E-03	1E+00	9E-01	2E+00	1E+00	6E-01	4E-01
	Cobalt-60	0.00230	0.00278	2E-07	2E-07	NC	NC	3E-06	4E-06	NC	NC	NC	NC
	Cesium-137	7.32	0.918	1E-04	2E-05	NC	NC	4E-01	4E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0132	0.00774	9E-09	5E-09	NC	NC	2E-06	1E-06	NC	NC	NC	NC
	Strontium-90	1.95	0.259	5E-07	7E-08	NC	NC	9E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-05	5E-06								
	Total Radiological Risk/HI			1E-04	2E-05								
	Total Chemical and Rad Risk/HI			2E-04	2E-05	2E+00	5E-01						

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
17th Street Pond Grid M14	Aroclor 1248	0.0290	0.0279	1E-07	1E-07	3E-02	3E-02	7E-04	7E-04	6E-05	6E-05	5E-01	4E-01
	Benzo(a)pyrene	6.20	0.0315	2E-04	8E-07	NC	NC	4E+00	2E-02	3E-01	2E-03	2E-02	1E-04
	Benzo(a)anthracene	1.86	0.0187	5E-06	5E-08	NC	NC	1E+00	1E-02	1E-01	1E-03	4E-02	4E-04
	Benzo(b)fluoranthene	5.77	0.0550	1E-05	1E-07	NC	NC	5E+00	5E-02	3E-01	3E-03	4E-02	4E-04
	Benzo(k)fluoranthene	3.84	0.0174	1E-05	4E-08	NC	NC	3E+00	1E-02	2E-01	1E-03	1E-02	6E-05
	Chrysene	2.80	0.0346	7E-07	9E-09	NC	NC	2E+00	3E-02	2E-01	2E-03	4E-02	5E-04
	Dibenzo(a,h)anthracene	0.210	0.00587	2E-06	5E-08	NC	NC	2E-01	5E-03	1E-02	3E-04	2E-03	4E-05
	Indeno(1,2,3-cd)pyrene	14.4	0.0604	4E-05	2E-07	NC	NC	1E+01	5E-02	8E-01	3E-03	5E-02	2E-04
	Total TEQ_BAP	13.0	0.0873	3E-04	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.08E-05	5.92E-06	8E-06	1E-06	8E-01	1E-01	NC	NC	NC	NC	8E+00	1E+00
	Chromium (Hexavalent)	0.968	0.968	8E-07	8E-07	4E-03	4E-03	3E-02	3E-02	5E-01	5E-01	3E-02	3E-02
	Lead	30.0	27.4	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	2E-02	8E-01	7E-01
	Mercury	0.675	0.128	NC	NC	4E-02	8E-03	2E+00	4E-01	7E+00	1E+00	4E-01	8E-02
	Antimony	3.07	1.11	NC	NC	1E-01	4E-02	6E-01	2E-01	4E-02	1E-02	2E+00	6E-01
	Bis(2-ethylhexyl)phthalate	8.78	0.0455	5E-08	3E-10	7E-03	4E-05	9E-03	5E-05	NC	NC	5E-02	2E-04
	Cadmium	1.13	0.687	1E-09	8E-10	2E-01	1E-01	4E-02	2E-02	8E-03	5E-03	1E+00	8E-01
	MCPA	0.757	0.654	NC	NC	2E-02	2E-02	NC	NC	NC	NC	1E+00	1E+00
	Phenanthrene	1.87	0.0240	NC	NC	1E-04	1E-06	2E+00	2E-02	6E-02	8E-04	5E-03	7E-05
	Silver	9.95	4.22	NC	NC	4E-02	2E-02	2E-02	8E-03	NC	NC	8E-02	4E-02
	Zinc	496	197	NC	NC	2E-02	9E-03	3E+00	1E+00	4E+00	2E+00	1E+00	5E-01
	Cesium-137	0.359	0.359	7E-06	7E-06	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-04	4E-06								
	Total Radiological Risk/HI			7E-06	7E-06								
	Total Chemical and Rad Risk/HI			4E-04	1E-05	2E+00	7E-01						
Building 4064 NW Grid I17	Aroclor 1254	0.689	0.00838	3E-06	4E-08	6E-01	8E-03	2E-02	2E-04	1E-03	2E-05	2E+00	2E-02
	Benzo(a)pyrene	0.0140	0.0133	4E-07	3E-07	NC	NC	9E-03	9E-03	8E-04	7E-04	5E-05	4E-05
	Total TEQ_BAP	0.0122	0.0119	3E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.76E-05	5.98E-06	4E-06	1E-06	3E-01	1E-01	NC	NC	NC	NC	4E+00	1E+00
	Cesium-137	1.41E-01	1.41E-01	3E-06	3E-06	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-06	2E-06								
	Total Radiological Risk/HI			3E-06	3E-06								
	Total Chemical and Rad Risk/HI			1E-05	4E-06	1E+00	1E-01						

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
Building 4064 NE Grid J18	Benzo(a)pyrene	0.0129	0.00950	3E-07	2E-07	NC	NC	9E-03	6E-03	7E-04	5E-04	4E-05	3E-05
	Total TEQ_BAP	0.0157	0.0110	4E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.47E-05	6.29E-06	5E-06	1E-06	5E-01	1E-01	NC	NC	NC	NC	5E+00	1E+00
	Barium	420	163	NC	NC	4E-02	1E-02	8E-01	3E-01	1E+00	5E-01	5E+00	2E+00
	Chromium (Hexavalent)	4.00	1.44	3E-06	1E-06	2E-02	6E-03	1E-01	5E-02	2E+00	7E-01	1E-01	4E-02
	Lead	32.9	25.3	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	1E-02	3E-01	2E-01
	Silver	53.4	0.537	NC	NC	2E-01	2E-03	1E-01	1E-03	NC	NC	4E-01	5E-03
	Zinc	1039	149	NC	NC	5E-02	7E-03	4E+00	5E-01	3E+00	4E-01	3E+00	4E-01
	Cesium-137	120	0.419	2E-03	8E-06	NC	NC	6E+00	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			9E-06	3E-06								
	Total Radiological Risk/HI			2E-03	8E-06								
	Total Chemical and Rad Risk/HI			2E-03	1E-05	1E+00	5E-01						
Building 4064 SW Grid J17	Benzo(a)pyrene	0.0172	0.0172	4E-07	4E-07	NC	NC	1E-02	1E-02	1E-03	1E-03	6E-05	6E-05
	Total TEQ_BAP	0.0222	0.0222	6E-07	6E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.38E-06	5.38E-06	1E-06	1E-06	1E-01	1E-01	NC	NC	NC	NC	1E+00	1E+00
	Cesium-137	0.445	0.445	8E-06	8E-06	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	2E-06								
	Total Radiological Risk/HI			8E-06	8E-06								
	Total Chemical and Rad Risk/HI			1E-05	1E-05	1E-01	1E-01						
Building 4064 SE Grid J18	Benzo(a)pyrene	0.567	0.00499	1E-05	1E-07	NC	NC	4E-01	3E-03	3E-02	3E-04	2E-03	2E-05
	Total TEQ_BAP	0.872	0.00627	2E-05	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Cesium-137	2.84	2.84	5E-05	5E-05	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	2E-07								
	Total Radiological Risk/HI			5E-05	5E-05								
	Total Chemical and Rad Risk/HI			8E-05	5E-05	NC	NC						
H14	Antimony	0.607	0.607	NC	NC	2E-02	2E-02	1E-01	1E-01	8E-03	8E-03	3E-01	3E-01
	Benzo(a)pyrene	0.00760	0.00755	2E-07	2E-07	NC	NC	5E-03	5E-03	4E-04	4E-04	2E-05	2E-05
	Naphthalene	23.5	23.5	2E-06	2E-06	3E-02	3E-02	2E-01	2E-01	8E-01	8E-01	2E-01	2E-01
	Total TEQ_BAP	0.00890	0.00880	2E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.16E-04	3.55E-06	2E-05	7E-07	2E+00	7E-02	NC	NC	NC	NC	2E+01	7E-01
	Cesium-137	0.666	0.666	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.163	0.163	5E-08	5E-08	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	1E-06								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			4E-05	1E-05	2E+00	1E-01						

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
H19	Aroclor 1254	0.318	0.231	1E-06	1E-06	3E-01	2E-01	8E-03	6E-03	6E-04	5E-04	8E-01	6E-01
	Aroclor 5460	0.0658	0.174	3E-07	7E-07	6E-02	2E-01	2E-03	4E-03	1E-04	3E-04	2E-01	4E-01
	Benzo(a)pyrene	0.125	0.0608	3E-06	2E-06	NC	NC	8E-02	4E-02	7E-03	3E-03	4E-04	2E-04
	Cadmium	1.33	1.03	2E-09	1E-09	3E-01	2E-01	4E-02	3E-02	9E-03	7E-03	2E+00	1E+00
	Chromium (Hexavalent Compounds)	1.54	1.18	1E-06	9E-07	7E-03	5E-03	5E-02	4E-02	8E-01	6E-01	4E-02	3E-02
	Lead	51.7	33.4	NC	NC	6E-01	4E-01	4E-01	3E-01	3E-02	2E-02	1E+00	9E-01
	MCPA	2.10	0.95	NC	NC	6E-02	3E-02	NC	NC	NC	NC	3E+00	2E+00
	Mercury	2.63	0.09	NC	NC	2E-01	5E-03	9E+00	3E-01	3E+01	9E-01	2E+00	5E-02
	Total TEQ_BAP	0.182	0.131	5E-06	3E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.63E-05	5.91E-06	1E-05	1E-06	9E-01	1E-01	NC	NC	NC	NC	9E+00	1E+00
	Cesium-137	0.458	0.458	9E-06	9E-06	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	7E-06								
	Total Radiological Risk/HI			9E-06	9E-06								
	Total Chemical and Rad Risk/HI			3E-05	2E-05	2E+00	1E+00						
N13	Aroclor 1254	0.111	0.0543	5E-07	2E-07	1E-01	5E-02	3E-03	1E-03	2E-04	1E-04	3E-01	1E-01
	Benzo(a)pyrene	0.0559	0.0207	1E-06	5E-07	NC	NC	4E-02	1E-02	3E-03	1E-03	2E-04	7E-05
	Cadmium	0.666	0.419	8E-10	5E-10	1E-01	9E-02	2E-02	1E-02	5E-03	3E-03	8E-01	5E-01
	Lead	40.5	38.8	NC	NC	5E-01	5E-01	4E-01	3E-01	2E-02	2E-02	1E+00	1E+00
	MCPA	0.591	0.531	NC	NC	2E-02	2E-02	NC	NC	NC	NC	1E+00	9E-01
	Selenium	0.659	0.659	NC	NC	2E-03	2E-03	1E+00	1E+00	2E-01	2E-01	4E-01	4E-01
	Total TEQ_BAP	0.241	0.0327	6E-06	8E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.03E-05	6.46E-06	1E-05	1E-06	1E+00	1E-01	NC	NC	NC	NC	1E+01	1E+00
	Zinc	180	1.53E+02	NC	NC	8E-03	7E-03	1E+00	1E+00	2E+00	1E+00	4E-01	4E-01
	Total Chemical Risk/HI			2E-05	2E-06	2E+00	8E-01						
O10	Benzo(a)pyrene	0.0977	0.0305	3E-06	8E-07	NC	NC	7E-02	2E-02	5E-03	2E-03	3E-04	1E-04
	Cadmium	0.648	0.627	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	8E-01
	MCPA	1.21	1.18	NC	NC	4E-02	3E-02	NC	NC	NC	NC	2E+00	2E+00
	Mercury	10.9	0.1	NC	NC	7E-01	8E-03	4E+01	5E-01	1E+02	1E+00	6E+00	8E-02
	Total TEQ_BAP	0.143	0.075	4E-06	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	7.58E-06	6.87E-06	2E-06	1E-06	2E-01	1E-01	NC	NC	NC	NC	2E+00	1E+00
	Strontium-90	0.192	0.192	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	3E-06								
	Total Radiological Risk/HI			5E-08	5E-08								
	Total Chemical and Rad Risk/HI			5E-06	3E-06	1E+00	3E-01						

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
F18	Antimony	1.35	0.466	NC	NC	5E-02	2E-02	3E-01	9E-02	2E-02	6E-03	7E-01	2E-01
	Aroclor 1254	0.398	0.0140	2E-06	6E-08	4E-01	1E-02	1E-02	3E-04	8E-04	3E-05	1E+00	4E-02
	Aroclor 1260	0.0109	0.0109	5E-08	5E-08	1E-02	1E-02	3E-04	3E-04	2E-05	2E-05	4E-02	4E-02
	Aroclor 5460	0.502	0.0206	2E-06	9E-08	5E-01	2E-02	1E-02	5E-04	1E-03	4E-05	1E+00	5E-02
	Benzo(a)pyrene	0.0478	0.00570	1E-06	1E-07	NC	NC	3E-02	4E-03	3E-03	3E-04	2E-04	2E-05
	Cadmium	0.787	0.446	9E-10	5E-10	2E-01	1E-01	2E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Lead	681	27.8	NC	NC	9E+00	3E-01	6E+00	2E-01	4E-01	2E-02	2E+01	7E-01
	Mercury	6.72	0.132	NC	NC	4E-01	8E-03	2E+01	4E-01	7E+01	1E+00	4E+00	8E-02
	Total TEQ_BAP	1.36E-01	2.45E-02	4E-06	6E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.35E-05	1.32E-06	3E-06	3E-07	3E-01	3E-02	NC	NC	NC	NC	3E+00	3E-01
	Zinc	266	94.8	NC	NC	1E-02	4E-03	2E+00	6E-01	2E+00	8E-01	6E-01	2E-01
	Total Chemical Risk/HI			1E-05	1E-06	1E+01	5E-01						
G17	Cadmium	0.584	0.391	7E-10	5E-10	1E-01	9E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	MCPA	1.00	0.89	NC	NC	3E-02	3E-02	NC	NC	NC	NC	2E+00	1E+00
	Mercury	0.0933	0.0599	NC	NC	6E-03	4E-03	3E-01	2E-01	9E-01	6E-01	5E-02	4E-02
	Total TEQ_Dioxin	2.43E-05	5.90E-06	5E-06	1E-06	5E-01	1E-01	NC	NC	NC	NC	5E+00	1E+00
	Zinc	685	105	NC	NC	3E-02	5E-03	4E+00	7E-01	6E+00	9E-01	2E+00	3E-01
	Cesium-137	0.123	0.123	2E-06	2E-06	NC	NC	6E-03	6E-03	NC	NC	NC	NC
	Plutonium-239/240	0.0123	0.0123	8E-09	8E-09	NC	NC	2E-06	2E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	1E-06								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			7E-06	4E-06	7E-01	2E-01						
H17	Aroclor 1254	0.237	0.009441	1E-06	4E-08	2E-01	9E-03	6E-03	2E-04	5E-04	2E-05	6E-01	2E-02
	Aroclor 5460	2.568	0.0229	1E-05	1E-07	2E+00	2E-02	6E-02	6E-04	5E-03	5E-05	7E+00	6E-02
	Cadmium	0.545	0.451	6E-10	5E-10	1E-01	1E-01	2E-02	1E-02	4E-03	3E-03	7E-01	6E-01
	Total TEQ_Dioxin	1.23E-05	4.26E-06	3E-06	9E-07	2E-01	8E-02	NC	NC	NC	NC	2E+00	9E-01
	Cesium-137	0.924	0.924	2E-05	2E-05	NC	NC	4E-02	4E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0198	0.0198	1E-08	1E-08	NC	NC	3E-06	3E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	1E-06								
	Total Radiological Risk/HI			2E-05	2E-05								
	Total Chemical and Rad Risk/HI			3E-05	2E-05	3E+00	2E-01						
I14	Aroclor 1254	0.329	0.329	1E-06	1E-06	3E-01	3E-01	8E-03	8E-03	7E-04	7E-04	8E-01	8E-01
	Aroclor 1260	0.0166	0.0166	7E-08	7E-08	2E-02	2E-02	4E-04	4E-04	3E-05	3E-05	7E-02	7E-02
	Aroclor 5460	0.251	0.251	1E-06	1E-06	2E-01	2E-01	6E-03	6E-03	5E-04	5E-04	6E-01	6E-01
	Cadmium	0.391	0.391	5E-10	5E-10	9E-02	9E-02	1E-02	1E-02	3E-03	3E-03	5E-01	5E-01
	Total TEQ_Dioxin	8.37E-06	5.06E-06	2E-06	1E-06	2E-01	1E-01	NC	NC	NC	NC	2E+00	1E+00
	Cesium-137	0.679	0.679	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.25	0.25	7E-08	7E-08	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			4E-06	4E-06								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			2E-05	2E-05	8E-01	7E-01						

TABLE 3-1 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Residential Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
N10	Antimony	3.58	1.07	NC	NC	1E-01	4E-02	7E-01	2E-01	5E-02	1E-02	2E+00	5E-01
	Benzo(a)pyrene	0.353	0.0380	9E-06	1E-06	NC	NC	2E-01	3E-02	2E-02	2E-03	1E-03	1E-04
	Cadmium	0.534	0.365	6E-10	4E-10	1E-01	8E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	Chromium (Hexavalent)	6.30	1.25	5E-06	1E-06	3E-02	5E-03	2E-01	4E-02	3E+00	6E-01	2E-01	3E-02
	Lead	128	32.4	NC	NC	2E+00	4E-01	1E+00	3E-01	8E-02	2E-02	3E+00	8E-01
	Total TEQ_BAP	0.508	0.0521	1E-05	1E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	3.65E-06	2.19E-06	8E-07	5E-07	7E-02	4E-02	NC	NC	NC	NC	7E-01	4E-01
	Strontium-90	0.0768	0.0768	2E-08	2E-08	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	3E-06								
	Total Radiological Risk/HI			2E-08	2E-08								
	Total Chemical and Rad Risk/HI			2E-05	3E-06	2E+00	6E-01						
O6	Aroclor 1254	0.280	0.0281	1E-06	1E-07	3E-01	3E-02	7E-03	7E-04	6E-04	6E-05	7E-01	7E-02
	Aroclor 5460	2.97	0.0158	1E-05	7E-08	3E+00	1E-02	7E-02	4E-04	6E-03	3E-05	8E+00	4E-02
	Benzo(a)pyrene	0.0172	0.0172	4E-07	4E-07	NC	NC	1E-02	1E-02	1E-03	1E-03	6E-05	6E-05
	Total TEQ_BAP	0.0239	0.0239	6E-07	6E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.01E-06	1.05E-06	4E-07	2E-07	4E-02	2E-02	NC	NC	NC	NC	4E-01	2E-01
	Strontium-90	0.12	0.12	3E-08	3E-08	NC	NC	5E-03	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	1E-06								
	Total Radiological Risk/HI			3E-08	3E-08								
	Total Chemical and Rad Risk/HI			2E-05	1E-06	3E+00	6E-02						
P6	Antimony	422	0.579	NC	NC	2E+01	2E-02	8E+01	1E-01	5E+00	7E-03	2E+02	3E-01
	Benzo(a)pyrene	0.00790	0.00472	2E-07	1E-07	NC	NC	5E-03	3E-03	4E-04	3E-04	3E-05	2E-05
	Cadmium	1.02	0.571	1E-09	7E-10	2E-01	1E-01	3E-02	2E-02	7E-03	4E-03	1E+00	7E-01
	Lead	8033	44.8	NC	NC	1E+02	6E-01	7E+01	4E-01	5E+00	3E-02	2E+02	1E+00
	Total TEQ_BAP	0.00887	0.00652	2E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.08E-05	2.08E-06	4E-06	4E-07	4E-01	4E-02	NC	NC	NC	NC	4E+00	4E-01
	Cesium-137	0.0655	0.0655	1E-06	1E-06	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Strontium-90	0.241	0.241	7E-08	7E-08	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	6E-07								
	Total Radiological Risk/HI			1E-06	1E-06								
	Total Chemical and Rad Risk/HI			6E-06	2E-06	1E+02	7E-01						
P11	Benzo(a)pyrene	0.00444	0.01332	1E-07	3E-07	NC	NC	3E-03	9E-03	2E-04	7E-04	1E-05	4E-05
	Cadmium	0.641	0.581	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	7E-01
	MCPA	1	0.898	NC	NC	3E-02	3E-02	NC	NC	NC	NC	2E+00	1E+00
	Total TEQ_BAP	0.0262	0.046	7E-07	1E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	8.85E-05	1.98E-06	2E-05	4E-07	2E+00	4E-02	NC	NC	NC	NC	2E+01	4E-01
	Cesium-137	0.0853	0.0853	2E-06	2E-06	NC	NC	4E-03	4E-03	NC	NC	NC	NC
	Strontium-90	0.197	0.197	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	2E-06								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			2E-05	3E-06	2E+00	2E-01						

Notes:

Exposure point concentrations for chemicals are in milligrams per kilogram (mg/kg)

Exposure point concentrations for radionuclides are in picocuries per gram (pCi/g)

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
RMHF Grid I13	Aroclor 1260	0.0528	0.0145	9E-08	3E-08	1E-02	3E-03	1E-03	4E-04	1E-04	3E-05	2E-01	6E-02
	Benzo(a)pyrene	0.821	0.0474	9E-06	5E-07	NC	NC	5E-01	3E-02	5E-02	3E-03	3E-03	2E-04
	Total TEQ_BAP	2.62	0.146	3E-05	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.22E-05	6.15E-06	7E-07	3E-07	5E-02	3E-02	NC	NC	NC	NC	2E+00	1E+00
	Antimony	64.4	0.719	NC	NC	5E-01	6E-03	1E+01	1E-01	8E-01	9E-03	3E+01	4E-01
	Cadmium	0.736	0.720	6E-11	6E-11	8E-02	8E-02	2E-02	2E-02	5E-03	5E-03	9E-01	9E-01
	Lead	1916	20.9	NC	NC	5E+00	6E-02	2E+01	2E-01	1E+00	1E-02	5E+01	5E-01
	Phenanthrene	1.55	0.0651	NC	NC	2E-05	NC	1E+00	5E-02	5E-02	2E-03	4E-03	2E-04
	Zinc	241	220	NC	NC	2E-03	NC	2E+00	1E+00	2E+00	2E+00	6E-01	5E-01
	Cobalt-60	0.00427	0.00427	3E-08	3E-08	NC	NC	6E-06	6E-06	NC	NC	NC	NC
	Cesium-137	1.39	1.39	2E-06	2E-06	NC	NC	7E-02	7E-02	NC	NC	NC	NC
	Strontium-90	2.44	2.44	5E-08	5E-08	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-05	2E-06								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			3E-05	4E-06	6E+00	2E-01						
SRE Grid H15	Aroclor 1254	0.0668	0.0266	1E-07	5E-08	1E-02	5E-03	2E-03	7E-04	1E-04	5E-05	2E-01	7E-02
	Aroclor 5460	0.562	0.0581	1E-06	1E-07	1E-01	1E-02	1E-02	1E-03	1E-03	1E-04	1E+00	1E-01
	Total TEQ_BAP	0.599	0.248	6E-06	3E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.40E-05	3.51E-06	3E-06	2E-07	2E-01	1E-02	NC	NC	NC	NC	1E+01	7E-01
	Benzo(a)anthracene	0.269	0.0814	3E-07	9E-08	NC	NC	2E-01	5E-02	1E-02	5E-03	5E-03	2E-03
	Benzo(a)pyrene	0.285	0.0563	3E-06	6E-07	NC	NC	2E-01	4E-02	2E-02	3E-03	9E-04	2E-04
	Benzo(b)fluoranthene	0.457	0.0887	5E-07	9E-08	NC	NC	4E-01	7E-02	3E-02	5E-03	3E-03	6E-04
	Benzo(k)fluoranthene	0.231	0.00953	2E-07	1E-08	NC	NC	2E-01	8E-03	1E-02	5E-04	7E-04	3E-05
	Dibenzo(a,h)anthracene	0.0306	0.0119	1E-07	4E-08	NC	NC	3E-02	1E-02	2E-03	7E-04	2E-04	8E-05
	Indeno(1,2,3-cd)pyrene	0.178	0.0142	2E-07	2E-08	NC	NC	1E-01	1E-02	1E-02	8E-04	6E-04	5E-05
	Chromium (Hexavalent)	2.00	1.43	3E-07	2E-07	2E-03	1E-03	7E-02	5E-02	1E+00	7E-01	5E-02	4E-02
	Lead	16.4	15.6	NC	NC	5E-02	4E-02	1E-01	1E-01	1E-02	9E-03	4E-01	4E-01
	Mercury	4.61	0.218	NC	NC	6E-02	3E-03	2E+01	7E-01	5E+01	2E+00	3E+00	1E-01
	Antimony	0.619	0.489	NC	NC	5E-03	4E-03	1E-01	1E-01	8E-03	6E-03	3E-01	2E-01
	Cadmium	0.888	0.479	8E-11	4E-11	1E-01	5E-02	3E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Molybdenum	3.22	0.863	NC	NC	2E-03	5E-04	2E+00	4E-01	NC	NC	1E+00	3E-01
	Zinc	228	146	NC	NC	2E-03	1E-03	1E+00	9E-01	2E+00	1E+00	6E-01	4E-01
	Cobalt-60	0.0023	0.00281	2E-08	2E-08	NC	NC	3E-06	4E-06	NC	NC	NC	NC
	Cesium-137	7.32	2.01	1E-05	3E-06	NC	NC	4E-01	1E-01	NC	NC	NC	NC
	Plutonium-239/240	0.0132	0.00774	1E-10	9E-11	NC	NC	2E-06	1E-06	NC	NC	NC	NC
	Strontium-90	1.95	0.41	4E-08	9E-09	NC	NC	9E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	3E-06								
	Total Radiological Risk/HI			1E-05	3E-06								
	Total Chemical and Rad Risk/HI			2E-05	7E-06	6E-01	1E-01						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
17th Street Pond Grid M14	Aroclor 1248	0.0290	0.0279	5E-08	5E-08	6E-03	5E-03	7E-04	7E-04	6E-05	6E-05	5E-01	4E-01
	Benzo(a)pyrene	6.20	0.0315	7E-05	3E-07	NC	NC	4E+00	2E-02	3E-01	2E-03	2E-02	1E-04
	Benzo(a)anthracene	1.86	0.0187	2E-06	2E-08	NC	NC	1E+00	1E-02	1E-01	1E-03	4E-02	4E-04
	Benzo(b)fluoranthene	5.77	0.0550	6E-06	6E-08	NC	NC	5E+00	5E-02	3E-01	3E-03	4E-02	4E-04
	Benzo(k)fluoranthene	3.84	0.0174	4E-06	2E-08	NC	NC	3E+00	1E-02	2E-01	1E-03	1E-02	6E-05
	Chrysene	2.80	0.0346	3E-07	4E-09	NC	NC	2E+00	3E-02	2E-01	2E-03	4E-02	5E-04
	Dibenzo(a,h)anthracene	0.210	0.00587	8E-07	2E-08	NC	NC	2E-01	5E-03	1E-02	3E-04	2E-03	4E-05
	Indeno(1,2,3-cd)pyrene	14.4	0.0604	2E-05	6E-08	NC	NC	1E+01	5E-02	8E-01	3E-03	5E-02	2E-04
	Total TEQ_BAP	13.0	0.0873	1E-04	9E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.08E-05	5.92E-06	2E-06	3E-07	2E-01	3E-02	NC	NC	NC	NC	8E+00	1E+00
	Chromium (Hexavalent)	0.968	0.968	2E-07	2E-07	9E-04	9E-04	3E-02	3E-02	5E-01	5E-01	3E-02	3E-02
	Lead	30.0	27.4	NC	NC	8E-02	8E-02	3E-01	2E-01	2E-02	2E-02	8E-01	7E-01
	Mercury	0.675	0.128	NC	NC	9E-03	2E-03	2E+00	4E-01	7E+00	1E+00	4E-01	8E-02
	Antimony	3.07	1.11	NC	NC	2E-02	9E-03	6E-01	2E-01	4E-02	1E-02	2E+00	6E-01
	Bis(2-ethylhexyl)phthalate	8.78	0.0455	2E-08	9E-11	2E-03	8E-06	9E-03	5E-05	NC	NC	5E-02	2E-04
	Cadmium	1.13	0.687	1E-10	6E-11	1E-01	8E-02	4E-02	2E-02	8E-03	5E-03	1E+00	8E-01
	MCPA	0.757	0.654	NC	NC	5E-03	4E-03	NC	NC	NC	NC	1E+00	1E+00
	Phenanthrene	1.87	0.0240	NC	NC	2E-05	3E-07	2E+00	2E-02	6E-02	8E-04	5E-03	7E-05
	Silver	9.95	4.22	NC	NC	9E-03	4E-03	2E-02	8E-03	NC	NC	8E-02	4E-02
	Zinc	496	197	NC	NC	5E-03	2E-03	3E+00	1E+00	4E+00	2E+00	1E+00	5E-01
	Cesium-137	0.359	0.359	6E-07	6E-07	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-04	1E-06								
	Total Radiological Risk/HI			6E-07	6E-07								
	Total Chemical and Rad Risk/HI			1E-04	2E-06	4E-01	2E-01						
Building 4064 NW Grid I17	Aroclor 1254	0.689	0.0084	1E-06	1E-08	1E-01	2E-03	2E-02	2E-04	1E-03	2E-05	2E+00	2E-02
	Benzo(a)pyrene	0.0140	0.0133	1E-07	1E-07	NC	NC	9E-03	9E-03	8E-04	7E-04	5E-05	4E-05
	Total TEQ_BAP	0.0122	0.012	1E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.76E-05	5.98E-06	1E-06	3E-07	7E-02	3E-02	NC	NC	NC	NC	4E+00	1E+00
	Cesium-137	0.141	0.141	2E-07	2E-07	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	5E-07								
	Total Radiological Risk/HI			2E-07	2E-07								
	Total Chemical and Rad Risk/HI			3E-06	7E-07	2E-01	3E-02						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
Building 4064 NE Grid I18	Benzo(a)pyrene	0.0129	0.00950	1E-07	1E-07	NC	NC	9E-03	6E-03	7E-04	5E-04	4E-05	3E-05
	Total TEQ_BAP	0.0157	0.0110	2E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.47E-05	6.29E-06	1E-06	3E-07	1E-01	3E-02	NC	NC	NC	NC	5E+00	1E+00
	Barium	419.7	162.5	NC	NC	8E-03	3E-03	8E-01	3E-01	1E+00	5E-01	5E+00	2E+00
	Chromium (Hexavalent)	4.00	1.44	6E-07	2E-07	4E-03	1E-03	1E-01	5E-02	2E+00	7E-01	1E-01	4E-02
	Lead	32.9	25.3	NC	NC	9E-02	7E-02	3E-01	2E-01	2E-02	1E-02	3E-01	2E-01
	Silver	53.4	0.537	NC	NC	5E-02	5E-04	1E-01	1E-03	NC	NC	4E-01	5E-03
	Zinc	1039	149	NC	NC	1E-02	1E-03	4E+00	5E-01	3E+00	4E-01	3E+00	4E-01
	Cesium-137	120	0.415	2E-04	7E-07	NC	NC	6E+00	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	7E-07								
	Total Radiological Risk/HI			2E-04	7E-07								
	Total Chemical and Rad Risk/HI			2E-04	1E-06	3E-01	1E-01						
Building 4064 SW Grid J17	Benzo(a)pyrene	0.017	0.017	2E-07	2E-07	NC	NC	1E-02	1E-02	1E-03	1E-03	6E-05	6E-05
	Total TEQ_BAP	0.022	0.022	2E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.38E-06	5.38E-06	3E-07	3E-07	2E-02	2E-02	NC	NC	NC	NC	1E+00	1E+00
	Cesium-137	0.445	0.445	8E-07	8E-07	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-07	5E-07								
	Total Radiological Risk/HI			8E-07	8E-07								
	Total Chemical and Rad Risk/HI			1E-06	1E-06	2E-02	2E-02						
Building 4064 SE Grid J18	Benzo(a)pyrene	0.567	0.567	6E-06	6E-06	NC	NC	4E-01	4E-01	3E-02	3E-02	2E-03	2E-03
	Total TEQ_BAP	0.911	0.872	1E-05	9E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Cesium-137	2.84	2.84	5E-06	5E-06	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	9E-06								
	Total Radiological Risk/HI			5E-06	5E-06								
	Total Chemical and Rad Risk/HI			1E-05	1E-05	NC	NC						
H14	Antimony	0.607	0.607	NC	NC	5E-03	5E-03	1E-01	1E-01	8E-03	8E-03	3E-01	3E-01
	Benzo(a)pyrene	0.00760	0.00755	8E-08	8E-08	NC	NC	5E-03	5E-03	4E-04	4E-04	2E-05	2E-05
	Naphthalene	23.5	23.5	1E-07	1E-07	6E-03	6E-03	2E-01	2E-01	8E-01	8E-01	2E-01	2E-01
	Total TEQ_BAP	0.00890	0.00880	9E-08	9E-08	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.16E-04	3.55E-06	6E-06	2E-07	5E-01	2E-02	NC	NC	NC	NC	2E+01	7E-01
	Cesium-137	0.666	0.666	1E-06	1E-06	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.163	0.163	4E-09	4E-09	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-06	3E-07								
	Total Radiological Risk/HI			1E-06	1E-06								
	Total Chemical and Rad Risk/HI			8E-06	1E-06	5E-01	3E-02						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
H19	Aroclor 1254	0.318	0.224	6E-07	4E-07	6E-02	4E-02	8E-03	6E-03	6E-04	4E-04	8E-01	6E-01
	Aroclor 5460	0.0658	0.174	1E-07	3E-07	1E-02	3E-02	2E-03	4E-03	1E-04	3E-04	2E-01	4E-01
	Benzo(a)pyrene	0.125	0.0608	1E-06	6E-07	NC	NC	8E-02	4E-02	7E-03	3E-03	4E-04	2E-04
	Cadmium	1.33	1.03	1E-10	9E-11	1E-01	1E-01	4E-02	3E-02	9E-03	7E-03	2E+00	1E+00
	Chromium (Hexavalent Compounds)	1.54	1.18	2E-07	2E-07	1E-03	1E-03	5E-02	4E-02	8E-01	6E-01	4E-02	3E-02
	Lead	51.7	33.4	NC	NC	1E-01	9E-02	4E-01	3E-01	3E-02	2E-02	1E+00	9E-01
	MCPA	2.10	0.946	NC	NC	1E-02	6E-03	NC	NC	NC	NC	3E+00	2E+00
	Mercury	2.63	0.0901	NC	NC	3E-02	1E-03	9E+00	3E-01	3E+01	9E-01	2E+00	5E-02
	Total TEQ_BAP	0.182	0.13	2E-06	1E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.63E-05	5.91E-06	3E-06	3E-07	2E-01	3E-02	NC	NC	NC	NC	9E+00	1E+00
	Cesium-137	0.458	0.458	8E-07	8E-07	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	3E-06								
	Total Radiological Risk/HI			8E-07	8E-07								
	Total Chemical and Rad Risk/HI			6E-06	3E-06	6E-01	3E-01						
N13	Aroclor 1254	0.111	0.0809	2E-07	1E-07	2E-02	2E-02	3E-03	2E-03	2E-04	2E-04	3E-01	2E-01
	Benzo(a)pyrene	0.0559	0.0385	6E-07	4E-07	NC	NC	4E-02	3E-02	3E-03	2E-03	2E-04	1E-04
	Cadmium	0.666	0.419	6E-11	4E-11	7E-02	5E-02	2E-02	1E-02	5E-03	3E-03	8E-01	5E-01
	Lead	40.5	38.8	NC	NC	1E-01	1E-01	4E-01	3E-01	2E-02	2E-02	1E+00	1E+00
	MCPA	0.591	0.549	NC	NC	4E-03	3E-03	NC	NC	NC	NC	1E+00	9E-01
	Selenium	0.659	0.659	NC	NC	4E-04	4E-04	1E+00	1E+00	2E-01	2E-01	4E-01	4E-01
	Total TEQ_BAP	0.241	0.0556	3E-06	6E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.03E-05	7.07E-06	3E-06	4E-07	2E-01	3E-02	NC	NC	NC	NC	1E+01	1E+00
	Zinc	180	153	NC	NC	2E-03	1E-03	1E+00	1E+00	2E+00	1E+00	4E-01	4E-01
	Total Chemical Risk/HI			6E-06	1E-06	4E-01	2E-01						
O10	Benzo(a)pyrene	0.0977	0.0794	1E-06	8E-07	NC	NC	7E-02	5E-02	5E-03	4E-03	3E-04	3E-04
	Cadmium	0.648	0.627	5E-11	5E-11	7E-02	7E-02	2E-02	2E-02	5E-03	4E-03	8E-01	8E-01
	MCPA	1.21	1.21	NC	NC	8E-03	8E-03	NC	NC	NC	NC	2E+00	2E+00
	Mercury	10.9	0.137	NC	NC	1E-01	2E-03	4E+01	5E-01	1E+02	1E+00	6E+00	8E-02
	Total TEQ_BAP	0.143	0.113	2E-06	1E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	7.58E-06	7.03E-06	4E-07	4E-07	3E-02	3E-02	NC	NC	NC	NC	2E+00	1E+00
	Strontium-90	0.192	0.192	4E-09	4E-09	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	2E-06								
	Total Radiological Risk/HI			4E-09	4E-09								
	Total Chemical and Rad Risk/HI			2E-06	2E-06	3E-01	1E-01						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
F18	Antimony	1.35	0.466	NC	NC	1E-02	4E-03	3E-01	9E-02	2E-02	6E-03	7E-01	2E-01
	Aroclor 1254	0.398	0.0140	7E-07	2E-08	8E-02	3E-03	1E-02	3E-04	8E-04	3E-05	1E+00	4E-02
	Aroclor 1260	0.0109	0.0109	2E-08	2E-08	2E-03	2E-03	3E-04	3E-04	2E-05	2E-05	4E-02	4E-02
	Aroclor 5460	0.502	0.0206	9E-07	4E-08	1E-01	4E-03	1E-02	5E-04	1E-03	4E-05	1E+00	5E-02
	Benzo(a)pyrene	0.0478	0.00570	5E-07	6E-08	NC	NC	3E-02	4E-03	3E-03	3E-04	2E-04	2E-05
	Cadmium	0.787	0.446	7E-11	4E-11	9E-02	5E-02	2E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Lead	681	27.8	NC	NC	2E+00	8E-02	6E+00	2E-01	4E-01	2E-02	2E+01	7E-01
	Mercury	6.72	0.132	NC	NC	9E-02	2E-03	2E+01	4E-01	7E+01	1E+00	4E+00	8E-02
	Total TEQ_BAP	1.36E-01	0.0245	1E-06	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.35E-05	1.32E-06	8E-07	7E-08	6E-02	6E-03	NC	NC	NC	NC	3E+00	3E-01
	Zinc	266	94.8	NC	NC	2E-03	9E-04	2E+00	6E-01	2E+00	8E-01	6E-01	2E-01
	Total Chemical Risk/HI			4E-06	4E-07	2E+00	1E-01						
G17	Cadmium	0.584	0.394	5E-11	3E-11	6E-02	4E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	MCPA	0.94	0.89	NC	NC	6E-03	6E-03	NC	NC	NC	NC	2E+00	1E+00
	Mercury	0.0933	0.0599	NC	NC	1E-03	8E-04	3E-01	2E-01	9E-01	6E-01	5E-02	4E-02
	Total TEQ_Dioxin	2.43E-05	5.90E-06	1E-06	3E-07	1E-01	3E-02	NC	NC	NC	NC	5E+00	1E+00
	Zinc	685	105	NC	NC	6E-03	1E-03	4E+00	7E-01	6E+00	9E-01	2E+00	3E-01
	Cesium-137	0.123	0.123	2E-07	2E-07	NC	NC	6E-03	6E-03				
	Plutonium-239/240	0.0123	0.0123	1E-10	1E-10	NC	NC	2E-06	2E-06				
	Total Chemical Risk/HI			1E-06	3E-07								
	Total Radiological Risk/HI			2E-07	2E-07								
	Total Chemical and Rad Risk/HI			2E-06	5E-07	2E-01	8E-02						
H17	Aroclor 1254	0.237	0.00944	4E-07	2E-08	5E-02	2E-03	6E-03	2E-04	5E-04	2E-05	6E-01	2E-02
	Aroclor 5460	2.568	0.0229	5E-06	4E-08	5E-01	4E-03	6E-02	6E-04	5E-03	5E-05	7E+00	6E-02
	Cadmium	0.545	0.458	5E-11	4E-11	6E-02	5E-02	2E-02	1E-02	4E-03	3E-03	7E-01	6E-01
	Total TEQ_Dioxin	2.26E-05	4.26E-06	1E-06	2E-07	1E-01	2E-02	NC	NC	NC	NC	5E+00	9E-01
	Cesium-137	0.924	0.924	2E-06	2E-06	NC	NC	4E-02	4E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0198	0.0198	2E-10	2E-10	NC	NC	3E-06	3E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			6E-06	3E-07								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			8E-06	2E-06	7E-01	7E-02						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
I14	Aroclor 1254	0.329	0.329	6E-07	6E-07	6E-02	6E-02	8E-03	8E-03	7E-04	7E-04	8E-01	8E-01
	Aroclor 1260	0.0166	0.0166	3E-08	3E-08	3E-03	3E-03	4E-04	4E-04	3E-05	3E-05	7E-02	7E-02
	Aroclor 5460	0.251	0.251	4E-07	4E-07	5E-02	5E-02	6E-03	6E-03	5E-04	5E-04	6E-01	6E-01
	Cadmium	0.391	0.391	3E-11	3E-11	4E-02	4E-02	1E-02	1E-02	3E-03	3E-03	5E-01	5E-01
	Total TEQ_Dioxin	8.37E-06	5.06E-06	5E-07	3E-07	4E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Cesium-137	0.679	0.679	1E-06	1E-06	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.25	0.25	6E-09	6E-09	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	1E-06								
	Total Radiological Risk/HI			1E-06	1E-06								
	Total Chemical and Rad Risk/HI			3E-06	3E-06	2E-01	2E-01						
N10	Antimony	3.58	1.07	NC	NC	3E-02	9E-03	7E-01	2E-01	5E-02	1E-02	2E+00	5E-01
	Benzo(a)pyrene	0.353	0.0380	4E-06	4E-07	NC	NC	2E-01	3E-02	2E-02	2E-03	1E-03	1E-04
	Cadmium	0.534	0.365	5E-11	3E-11	6E-02	4E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	Chromium (Hexavalent)	6.30	1.25	1E-06	2E-07	6E-03	1E-03	2E-01	4E-02	3E+00	6E-01	2E-01	3E-02
	Lead	128	32.4	NC	NC	4E-01	9E-02	1E+00	3E-01	8E-02	2E-02	3E+00	8E-01
	Total TEQ_BAP	0.508	0.0521	5E-06	6E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	3.65E-06	2.19E-06	2E-07	1E-07	2E-02	9E-03	NC	NC	NC	NC	7E-01	4E-01
	Strontium-90	0.0768	0.0768	2E-09	2E-09	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-06	9E-07								
	Total Radiological Risk/HI			2E-09	2E-09								
	Total Chemical and Rad Risk/HI			7E-06	9E-07	5E-01	1E-01						
O6	Aroclor 1254	0.280	0.0281	5E-07	5E-08	5E-02	5E-03	7E-03	7E-04	6E-04	6E-05	7E-01	7E-02
	Aroclor 5460	2.97	0.0158	5E-06	3E-08	6E-01	3E-03	7E-02	4E-04	6E-03	3E-05	8E+00	4E-02
	Benzo(a)pyrene	0.0172	0.0172	2E-07	2E-07	NC	NC	1E-02	1E-02	1E-03	1E-03	6E-05	6E-05
	Total TEQ_BAP	0.0239	0.0239	3E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.01E-06	1.05E-06	1E-07	6E-08	9E-03	4E-03	NC	NC	NC	NC	4E-01	2E-01
	Strontium-90	0.12	0.12	3E-09	3E-09	NC	NC	5E-03	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			6E-06	4E-07								
	Total Radiological Risk/HI			3E-09	3E-09								
	Total Chemical and Rad Risk/HI			6E-06	4E-07	6E-01	1E-02						

TABLE 3-2 Summary of Cancer Risks and Hazards for Conservation of Natural Resources Alternative – Open Space Scenario

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Recreational Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
P6	Antimony	422	0.579	NC	NC	3E+00	5E-03	8E+01	1E-01	5E+00	7E-03	2E+02	3E-01
	Benzo(a)pyrene	0.00790	0.00472	8E-08	5E-08	NC	NC	5E-03	3E-03	4E-04	3E-04	3E-05	2E-05
	Cadmium	1.02	0.571	9E-11	5E-11	1E-01	6E-02	3E-02	2E-02	7E-03	4E-03	1E+00	7E-01
	Lead	8033	44.8	NC	NC	2E+01	1E-01	7E+01	4E-01	5E+00	3E-02	2E+02	1E+00
	Total TEQ_BAP	0.00887	0.00652	9E-08	7E-08	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.08E-05	2.08E-06	1E-06	1E-07	9E-02	9E-03	NC	NC	NC	NC	4E+00	4E-01
	Cesium-137	0.0655	0.0655	1E-07	1E-07	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Strontium-90	0.241	0.241	5E-09	5E-09	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-06	2E-07								
	Total Radiological Risk/HI			1E-07	1E-07								
	Total Chemical and Rad Risk/HI			1E-06	3E-07	3E+01	2E-01						
P11	Benzo(a)pyrene	0.00444	0.0133	5E-08	1E-07	NC	NC	3E-03	9E-03	2E-04	7E-04	1E-05	4E-05
	Cadmium	0.641	0.581	5E-11	5E-11	7E-02	6E-02	2E-02	2E-02	5E-03	4E-03	8E-01	7E-01
	MCPA	1	0.898	NC	NC	6E-03	6E-03	NC	NC	NC	NC	2E+00	1E+00
	Total TEQ_BAP	0.0262	0.046	3E-07	5E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	8.85E-05	1.98E-06	5E-06	1E-07	4E-01	8E-03	NC	NC	NC	NC	2E+01	4E-01
	Cesium-137	0.0853	0.0853	1E-07	1E-07	NC	NC	4E-03	4E-03	NC	NC	NC	NC
	Strontium-90	0.197	0.197	4E-09	4E-09	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	6E-07								
	Total Radiological Risk/HI			2E-07	2E-07								
	Total Chemical and Rad Risk/HI			5E-06	8E-07	5E-01	8E-02						

Notes:

Exposure point concentrations for chemicals are in milligrams per kilogram (mg/kg)

Exposure point concentrations for radionuclides are in picocuries per gram (pCi/g)

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
RMHF Grid I13	Aroclor 1260	0.0528	0.00982	2E-07	4E-08	4.80E-02	9E-03	1E-03	2E-04	1E-04	2E-05	2.11E-01	4E-02
	Benzo(a)pyrene	0.821	0.00336	2E-05	9E-08	NC	NC	5E-01	2E-03	5E-02	2E-04	2.65E-03	1E-05
	Total TEQ_BAP	2.62	0.00425	7E-05	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.22E-05	7.48E-07	3E-06	2E-07	2.42E-01	1E-02	NC	NC	NC	NC	2.44E+00	1E-01
	Antimony	64.4	0.403	NC	NC	2.44E+00	2E-02	1E+01	8E-02	8E-01	5E-03	3.22E+01	2E-01
	Cadmium	0.736	0.314	9E-10	4E-10	1.60E-01	7E-02	2E-02	1E-02	5E-03	2E-03	9.09E-01	4E-01
	Lead	1916	18.2	NC	NC	2.40E+01	2E-01	2E+01	2E-01	1E+00	1E-02	4.91E+01	5E-01
	Phenanthrene	1.55	0.00264	NC	NC	9.43E-05	2E-07	1E+00	2E-03	5E-02	9E-05	4.35E-03	7E-06
	Zinc	241	94	NC	NC	1.05E-02	4E-03	2E+00	6E-01	2E+00	8E-01	5.85E-01	2E-01
	Cobalt-60	0.00427	0.00427	4E-07	4E-07	NC	NC	6.17E-06	6E-06	NC	NC	NC	NC
	Cesium-137	1.39	0.199	3E-05	4E-06	NC	NC	6.70E-02	1E-02	NC	NC	NC	NC
	Strontium-90	2.44	0.314	7E-07	9E-08	NC	NC	1.09E-01	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-05	3E-07								
	Total Radiological Risk/HI			3E-05	4E-06								
	Total Chemical and Rad Risk/HI			1E-04	5E-06	3E+01	3E-01						
SRE Grid H15	Aroclor 1254	0.0668	0.0210	3E-07	9E-08	6E-02	2E-02	2E-03	5E-04	1E-04	4E-05	2E-01	5E-02
	Aroclor 5460	0.562	0.0461	2E-06	2E-07	5E-01	4E-02	1E-02	1E-03	1E-03	9E-05	1E+00	1E-01
	Total TEQ_BAP	0.599	0.0124	2E-05	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.40E-05	5.77E-06	1E-05	1E-06	1E+00	1E-01	NC	NC	NC	NC	1E+01	1E+00
	Benzo(a)anthracene	0.269	0.00611	7E-07	2E-08	NC	NC	2E-01	4E-03	1E-02	3E-04	5E-03	1E-04
	Benzo(a)pyrene	0.285	0.00731	7E-06	2E-07	NC	NC	2E-01	5E-03	2E-02	4E-04	9E-04	2E-05
	Benzo(b)fluoranthene	0.457	0.00905	1E-06	2E-08	NC	NC	4E-01	8E-03	3E-02	5E-04	3E-03	6E-05
	Benzo(k)fluoranthene	0.231	0.00507	6E-07	1E-08	NC	NC	2E-01	4E-03	1E-02	3E-04	7E-04	2E-05
	Dibenzo(a,h)anthracene	0.0306	0.00405	3E-07	4E-08	NC	NC	3E-02	3E-03	2E-03	2E-04	2E-04	3E-05
	Indeno(1,2,3-cd)pyrene	0.178	0.00548	5E-07	1E-08	NC	NC	1E-01	5E-03	1E-02	3E-04	6E-04	2E-05
	Chromium (Hexavalent)	2.00	1.43	2E-06	1E-06	9E-03	6E-03	7E-02	5E-02	1E+00	7E-01	5E-02	4E-02
	Lead	16.4	15.6	NC	NC	2E-01	2E-01	1E-01	1E-01	1E-02	9E-03	4E-01	4E-01
	Mercury	4.61	0.112	NC	NC	3E-01	7E-03	2E+01	4E-01	5E+01	1E+00	3E+00	7E-02
	Antimony	0.619	0.409	NC	NC	2E-02	2E-02	1E-01	8E-02	8E-03	5E-03	3E-01	2E-01
	Cadmium	0.888	0.479	1E-09	6E-10	2E-01	1E-01	3E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Molybdenum	3.22	0.863	NC	NC	8E-03	2E-03	2E+00	4E-01	NC	NC	1E+00	3E-01
	Zinc	228	146	NC	NC	1E-02	6E-03	1E+00	9E-01	2E+00	1E+00	6E-01	4E-01
	Cobalt-60	0.00230	0.00281	2E-07	2E-07	NC	NC	3E-06	4E-06	NC	NC	NC	NC
	Cesium-137	7.32	0.277	1E-04	5E-06	NC	NC	4E-01	1E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0132	0.0132	9E-09	9E-09	NC	NC	2E-06	2E-06	NC	NC	NC	NC
	Strontium-90	1.95	0.215	5E-07	6E-08	NC	NC	9E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-05	3E-06								
	Total Radiological Risk/HI			1E-04	6E-06								
	Total Chemical and Rad Risk/HI			2E-04	8E-06	2E+00	5E-01						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
17th Street Pond Grid M14	Aroclor 1248	0.0290	0.00647	1E-07	3E-08	3E-02	6E-03	7E-04	2E-04	6E-05	1E-05	5E-01	1E-01
	Benzo(a)pyrene	6.20	0.00675	2E-04	2E-07	NC	NC	4E+00	4E-03	3E-01	4E-04	2E-02	2E-05
	Benzo(a)anthracene	1.86	0.00715	5E-06	2E-08	NC	NC	1E+00	5E-03	1E-01	4E-04	4E-02	1E-04
	Benzo(b)fluoranthene	5.77	0.00857	1E-05	2E-08	NC	NC	5E+00	7E-03	3E-01	5E-04	4E-02	6E-05
	Benzo(k)fluoranthene	3.84	0.00530	1E-05	1E-08	NC	NC	3E+00	4E-03	2E-01	3E-04	1E-02	2E-05
	Chrysene	2.80	0.00753	7E-07	2E-09	NC	NC	2E+00	6E-03	2E-01	4E-04	4E-02	1E-04
	Dibenzo(a,h)anthracene	0.210	0.00352	2E-06	3E-08	NC	NC	2E-01	3E-03	1E-02	2E-04	2E-03	3E-05
	Indeno(1,2,3-cd)pyrene	14.4	0.00585	4E-05	2E-08	NC	NC	1E+01	5E-03	8E-01	3E-04	5E-02	2E-05
	Total TEQ_BAP	13.0	0.0135	3E-04	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.08E-05	5.15E-06	8E-06	1E-06	8E-01	1E-01	NC	NC	NC	NC	8E+00	1E+00
	Chromium (Hexavalent)	0.968	0.864	8E-07	7E-07	4E-03	4E-03	3E-02	3E-02	5E-01	4E-01	3E-02	2E-02
	Lead	29.99	27.2700	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	2E-02	8E-01	7E-01
	Mercury	0.675	0.0943	NC	NC	4E-02	6E-03	2E+00	3E-01	7E+00	9E-01	4E-01	6E-02
	Antimony	3.07	0.356	NC	NC	1E-01	1E-02	6E-01	7E-02	4E-02	5E-03	2E+00	2E-01
	Bis(2-ethylhexyl)phthalate	8.78	0.0385	5E-08	2E-10	7E-03	3E-05	9E-03	4E-05	NC	NC	5E-02	2E-04
	Cadmium	1.13	0.590	1E-09	7E-10	2E-01	1E-01	4E-02	2E-02	8E-03	4E-03	1E+00	7E-01
	MCPA	0.757	0.637	NC	NC	2E-02	2E-02	NC	NC	NC	NC	1E+00	1E+00
	Phenanthrene	1.87	0.00749	NC	NC	1E-04	5E-07	2E+00	6E-03	6E-02	3E-04	5E-03	2E-05
	Silver	9.95	3.26	NC	NC	4E-02	1E-02	2E-02	6E-03	NC	NC	8E-02	3E-02
	Zinc	496	159	NC	NC	2E-02	7E-03	3E+00	1E+00	4E+00	1E+00	1E+00	4E-01
	Cesium-137	0.359	0.153	7E-06	3E-06	NC	NC	2E-02	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-04	2E-06								
	Total Radiological Risk/HI			7E-06	3E-06								
	Total Chemical and Rad Risk/HI			4E-04	5E-06	2E+00	6E-01						
Building 4064 NW Grid I17	Aroclor 1254	0.689	0.00814	3E-06	4E-08	6E-01	7E-03	2E-02	2E-04	1E-03	2E-05	2E+00	2E-02
	Benzo(a)pyrene	0.0140	0.0132	4E-07	3E-07	NC	NC	9E-03	9E-03	8E-04	7E-04	5E-05	4E-05
	Total TEQ_BAP	0.0122	0.0118	3E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.76E-05	5.57E-06	4E-06	1E-06	3E-01	1E-01	NC	NC	NC	NC	4E+00	1E+00
	Cesium-137	1.41E-01	0.141	3E-06	3E-06	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-06	1E-06								
	Total Radiological Risk/HI			3E-06	3E-06								
	Total Chemical and Rad Risk/HI			1E-05	4E-06	1E+00	1E-01						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
Building 4064 NE Grid I18	Benzo(a)pyrene	0.0129	0.00547	3E-07	1E-07	NC	NC	9E-03	4E-03	7E-04	3E-04	4E-05	2E-05
	Total TEQ_BAP	0.0157	0.00540	4E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.47E-05	2.79E-06	5E-06	6E-07	5E-01	6E-02	NC	NC	NC	NC	5E+00	6E-01
	Barium	420	163	NC	NC	4E-02	1E-02	8E-01	3E-01	1E+00	5E-01	5E+00	2E+00
	Chromium (Hexavalent)	5.55	1.44	4E-06	1E-06	2E-02	6E-03	2E-01	5E-02	3E+00	7E-01	1E-01	4E-02
	Lead	32.9	25.2	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	1E-02	3E-01	2E-01
	Silver	53.4	0.475	NC	NC	2E-01	2E-03	1E-01	8E-04	NC	NC	4E-01	4E-03
	Zinc	1039	149	NC	NC	5E-02	7E-03	4E+00	5E-01	3E+00	4E-01	3E+00	4E-01
	Cesium-137	120	0.132	2E-03	2E-06	NC	NC	6E+00	6E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	2E-06								
	Total Radiological Risk/HI			2E-03	2E-06								
	Total Chemical and Rad Risk/HI			2E-03	4E-06	1E+00	4E-01						
Building 4064 SW Grid J17	Benzo(a)pyrene	0.0172	0.00932	4E-07	2E-07	NC	NC	0.01144	6E-03	1E-03	5E-04	5.54E-05	3E-05
	Total TEQ_BAP	0.0222	0.0117	6E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.38E-06	3.44E-06	1E-06	7E-07	1.07E-01	7E-02	NC	NC	NC	NC	1.0764	7E-01
	Cesium-137	0.445	0.117	8E-06	2E-06	NC	NC	2E-02	6E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	1E-06								
	Total Radiological Risk/HI			8E-06	2E-06								
	Total Chemical and Rad Risk/HI			1E-05	3E-06	1E-01	7E-02						
Building 4064 SE Grid J18	Benzo(a)pyrene	0.567	0.00499	1E-05	1E-07	NC	NC	4E-01	3E-03	3E-02	3E-04	2E-03	2E-05
	Total TEQ_BAP	0.872	0.00627	2E-05	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Cesium-137	2.84	2.84	5E-05	5E-05	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	2E-07								
	Total Radiological Risk/HI			5E-05	5E-05								
	Total Chemical and Rad Risk/HI			8E-05	5E-05	NC	NC						
H14	Antimony	0.607	0.397	NC	NC	2E-02	2E-02	1E-01	8E-02	8E-03	5E-03	3E-01	2E-01
	Benzo(a)pyrene	0.00760	0.00380	2E-07	1E-07	NC	NC	5E-03	3E-03	4E-04	2E-04	2E-05	1E-05
	Naphthalene	23.5	23.5	2E-06	2E-06	3E-02	3E-02	2E-01	2E-01	8E-01	8E-01	2E-01	2E-01
	Total TEQ_BAP	0.00890	0.00391	2E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.16E-04	2.91E-06	2E-05	6E-07	2E+00	6E-02	NC	NC	NC	NC	2E+01	6E-01
	Cesium-137	0.666	0.697	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.163	0.163	5E-08	5E-08	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	7E-07								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			4E-05	1E-05	2E+00	1E-01						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
H19	Aroclor 1254	0.318	0.210	1E-06	9E-07	3E-01	2E-01	8E-03	5E-03	6E-04	4E-04	8E-01	5E-01
	Aroclor 5460	0.0658	0.041	3E-07	2E-07	6E-02	4E-02	2E-03	1E-03	1E-04	8E-05	2E-01	1E-01
	Benzo(a)pyrene	0.125	0.0358	3E-06	9E-07	NC	NC	8E-02	2E-02	7E-03	2E-03	4E-04	1E-04
	Cadmium	1.33	0.86	2E-09	1E-09	3E-01	2E-01	4E-02	3E-02	9E-03	6E-03	2E+00	1E+00
	Chromium (Hexavalent Compounds)	1.54	1.18	1E-06	9E-07	7E-03	5E-03	5E-02	4E-02	8E-01	6E-01	4E-02	3E-02
	Lead	51.7	27.5	NC	NC	6E-01	3E-01	4E-01	2E-01	3E-02	2E-02	1E+00	7E-01
	MCPA	1.94	0.91	NC	NC	6E-02	3E-02	NC	NC	NC	NC	3E+00	1E+00
	Mercury	2.63	0.09	NC	NC	2E-01	5E-03	9E+00	3E-01	3E+01	9E-01	2E+00	5E-02
	Total TEQ_BAP	0.182	0.0849	5E-06	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.63E-05	5.21E-06	1E-05	1E-06	9E-01	1E-01	NC	NC	NC	NC	9E+00	1E+00
	Cesium-137	0.458	0.513	9E-06	1E-05	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	5E-06								
	Total Radiological Risk/HI			9E-06	1E-05								
	Total Chemical and Rad Risk/HI			3E-05	1E-05	2E+00	9E-01						
N13	Aroclor 1254	0.111	0.0206	5E-07	9E-08	1E-01	2E-02	3E-03	5E-04	2E-04	4E-05	3E-01	5E-02
	Benzo(a)pyrene	0.0559	0.0139	1E-06	4E-07	NC	NC	4E-02	9E-03	3E-03	8E-04	2E-04	4E-05
	Cadmium	0.666	0.418	8E-10	5E-10	1E-01	9E-02	2E-02	1E-02	5E-03	3E-03	8E-01	5E-01
	Lead	40.5	29.2	NC	NC	5E-01	4E-01	4E-01	3E-01	2E-02	2E-02	1E+00	7E-01
	MCPA	0.591	0.508	NC	NC	2E-02	1E-02	NC	NC	NC	NC	1E+00	8E-01
	Selenium	0.659	0.623	NC	NC	2E-03	2E-03	1E+00	1E+00	2E-01	2E-01	4E-01	4E-01
	Total TEQ_BAP	0.241	0.0335	6E-06	9E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.03E-05	5.52E-06	1E-05	1E-06	1E+00	1E-01	NC	NC	NC	NC	1E+01	1E+00
	Zinc	180	1.52E+02	NC	NC	8E-03	7E-03	1E+00	9E-01	2E+00	1E+00	4E-01	4E-01
	Total Chemical Risk/HI			2E-05	2E-06	2E+00	6E-01						
O10	Benzo(a)pyrene	0.0977	0.0045	3E-06	1E-07	NC	NC	7E-02	3E-03	5E-03	2E-04	3E-04	1E-05
	Cadmium	0.648	0.615	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	8E-01
	MCPA	1.21	0.76	NC	NC	4E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Mercury	10.9	0.1	NC	NC	7E-01	7E-03	4E+01	4E-01	1E+02	1E+00	6E+00	7E-02
	Total TEQ_BAP	0.143	0.004	4E-06	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	7.58E-06	9.12E-07	2E-06	2E-07	2E-01	2E-02	NC	NC	NC	NC	2E+00	2E-01
	Strontium-90	0.192	0.192	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	3E-07								
	Total Radiological Risk/HI			5E-08	5E-08								
	Total Chemical and Rad Risk/HI			5E-06	4E-07	1E+00	2E-01						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
F18	Antimony	1.35	0.444	NC	NC	5E-02	2E-02	3E-01	9E-02	2E-02	6E-03	7E-01	2E-01
	Aroclor 1254	0.398	0.0122	2E-06	5E-08	4E-01	1E-02	1E-02	3E-04	8E-04	2E-05	1E+00	3E-02
	Aroclor 1260	0.0109	0.0087	5E-08	4E-08	1E-02	8E-03	3E-04	2E-04	2E-05	2E-05	4E-02	3E-02
	Aroclor 5460	0.502	0.0192	2E-06	8E-08	5E-01	2E-02	1E-02	5E-04	1E-03	4E-05	1E+00	5E-02
	Benzo(a)pyrene	0.0478	0.00284	1E-06	7E-08	NC	NC	3E-02	2E-03	3E-03	2E-04	2E-04	9E-06
	Cadmium	0.787	0.443	9E-10	5E-10	2E-01	1E-01	2E-02	1E-02	6E-03	3E-03	1E+00	5E-01
	Lead	681	27.3	NC	NC	9E+00	3E-01	6E+00	2E-01	4E-01	2E-02	2E+01	7E-01
	Mercury	6.72	0.144	NC	NC	4E-01	9E-03	2E+01	5E-01	7E+01	1E+00	4E+00	8E-02
	Total TEQ_BAP	1.36E-01	4.47E-03	4E-06	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.35E-05	1.16E-06	3E-06	2E-07	3E-01	2E-02	NC	NC	NC	NC	3E+00	2E-01
	Zinc	266	94.8	NC	NC	1E-02	4E-03	2E+00	6E-01	2E+00	8E-01	6E-01	2E-01
	Total Chemical Risk/HI			1E-05	5E-07	1E+01	5E-01						
G17	Cadmium	0.584	0.389	7E-10	5E-10	1E-01	8E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	MCPA	0.94	0.84	NC	NC	3E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Mercury	0.0933	0.0567	NC	NC	6E-03	3E-03	3E-01	2E-01	9E-01	6E-01	5E-02	3E-02
	Total TEQ_Dioxin	2.43E-05	3.14E-06	5E-06	7E-07	5E-01	6E-02	NC	NC	NC	NC	5E+00	6E-01
	Zinc	685	105	NC	NC	3E-02	5E-03	4E+00	7E-01	6E+00	9E-01	2E+00	3E-01
	Cesium-137	0.123	0.123	2E-06	2E-06	NC	NC	6E-03	6E-03	NC	NC	NC	NC
	Plutonium-239/240	0.0123	0.0123	8E-09	8E-09	NC	NC	2E-06	2E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	7E-07								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			7E-06	3E-06	7E-01	2E-01						
H17	Aroclor 1254	0.237	0.0093	1E-06	4E-08	2E-01	8E-03	6E-03	2E-04	5E-04	2E-05	6E-01	2E-02
	Aroclor 5460	2.568	0.0229	1E-05	1E-07	2E+00	2E-02	6E-02	6E-04	5E-03	5E-05	7E+00	6E-02
	Cadmium	0.545	0.451	6E-10	5E-10	1E-01	1E-01	2E-02	1E-02	4E-03	3E-03	7E-01	6E-01
	Total TEQ_Dioxin	1.23E-05	4.26E-06	3E-06	9E-07	2E-01	8E-02	NC	NC	NC	NC	2E+00	9E-01
	Cesium-137	0.924	0.85	2E-05	2E-05	NC	NC	4E-02	4E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0198	0.0198	1E-08	1E-08	NC	NC	3E-06	3E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	1E-06								
	Total Radiological Risk/HI			2E-05	2E-05								
	Total Chemical and Rad Risk/HI			3E-05	2E-05	3E+00	2E-01						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
I14	Aroclor 1254	0.329	0.236	1E-06	1E-06	3E-01	2E-01	8E-03	6E-03	7E-04	5E-04	8E-01	6E-01
	Aroclor 1260	0.0166	0.0149	7E-08	6E-08	2E-02	1E-02	4E-04	4E-04	3E-05	3E-05	7E-02	6E-02
	Aroclor 5460	0.251	0.296	1E-06	1E-06	2E-01	3E-01	6E-03	7E-03	5E-04	6E-04	6E-01	8E-01
	Cadmium	0.391	0.468	5E-10	6E-10	9E-02	1E-01	1E-02	1E-02	3E-03	3E-03	5E-01	6E-01
	Total TEQ_Dioxin	8.37E-06	4.82E-06	2E-06	1E-06	2E-01	1E-01	NC	NC	NC	NC	2E+00	1E+00
	Cesium-137	0.679	0.545	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.25	0.25	7E-08	7E-08	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			4E-06	3E-06								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			2E-05	1E-05	8E-01	7E-01						
N10	Antimony	3.58	0.51	NC	NC	1E-01	2E-02	7E-01	1E-01	5E-02	7E-03	2E+00	3E-01
	Benzo(a)pyrene	0.353	0.0042	9E-06	1E-07	NC	NC	2E-01	3E-03	2E-02	2E-04	1E-03	1E-05
	Cadmium	0.534	0.363	6E-10	4E-10	1E-01	8E-02	2E-02	1E-02	4E-03	3E-03	7E-01	4E-01
	Chromium (Hexavalent)	6.30	1.25	5E-06	1E-06	3E-02	5E-03	2E-01	4E-02	3E+00	6E-01	2E-01	3E-02
	Lead	128	25.1	NC	NC	2E+00	3E-01	1E+00	2E-01	8E-02	1E-02	3E+00	6E-01
	Total TEQ_BAP	0.508	0.0045	1E-05	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	3.65E-06	9.12E-07	8E-07	2E-07	7E-02	2E-02	NC	NC	NC	NC	7E-01	2E-01
	Strontium-90	0.0768	0.0768	2E-08	2E-08	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	1E-06								
	Total Radiological Risk/HI			2E-08	2E-08								
	Total Chemical and Rad Risk/HI			2E-05	1E-06	2E+00	4E-01						
O6	Aroclor 1254	0.280	0.0218	1E-06	9E-08	3E-01	2E-02	7E-03	5E-04	6E-04	4E-05	7E-01	6E-02
	Aroclor 5460	2.97	0.0155	1E-05	7E-08	3E+00	1E-02	7E-02	4E-04	6E-03	3E-05	8E+00	4E-02
	Benzo(a)pyrene	0.0172	0.0045	4E-07	1E-07	NC	NC	1E-02	3E-03	1E-03	3E-04	6E-05	1E-05
	Total TEQ_BAP	0.0239	0.008	6E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.01E-06	8.57E-07	4E-07	2E-07	4E-02	2E-02	NC	NC	NC	NC	4E-01	2E-01
	Strontium-90	0.12	0.12	3E-08	3E-08	NC	NC	5E-03	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	5E-07								
	Total Radiological Risk/HI			3E-08	3E-08								
	Total Chemical and Rad Risk/HI			2E-05	6E-07	3E+00	5E-02						

TABLE 3-3 Summary of Cancer Risks and Hazards for Cleanup to AOC LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
P6	Antimony	422	0.551	NC	NC	2E+01	2E-02	8E+01	1E-01	5E+00	7E-03	2E+02	3E-01
	Benzo(a)pyrene	0.00790	0.00339	2E-07	9E-08	NC	NC	5E-03	2E-03	4E-04	2E-04	3E-05	1E-05
	Cadmium	1.02	0.408	1E-09	5E-10	2E-01	9E-02	3E-02	1E-02	7E-03	3E-03	1E+00	5E-01
	Lead	8033	34.7	NC	NC	1E+02	4E-01	7E+01	3E-01	5E+00	2E-02	2E+02	9E-01
	Total TEQ_BAP	0.00887	0.00223	2E-07	6E-08	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.08E-05	9.12E-07	4E-06	2E-07	4E-01	2E-02	NC	NC	NC	NC	4E+00	2E-01
	Cesium-137	0.0655	0.0655	1E-06	1E-06	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Strontium-90	0.241	0.109	7E-08	3E-08	NC	NC	1E-02	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	2E-07								
	Total Radiological Risk/HI			1E-06	1E-06								
	Total Chemical and Rad Risk/HI			6E-06	2E-06	1E+02	6E-01						
P11	Benzo(a)pyrene	0.00444	0.00249	1E-07	6E-08	NC	NC	3E-03	2E-03	2E-04	1E-04	1E-05	8E-06
	Cadmium	0.641	0.578	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	7E-01
	MCPA	1	0.688	NC	NC	3E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Total TEQ_BAP	0.0262	0.00447	7E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	8.85E-05	9.12E-07	2E-05	2E-07	2E+00	2E-02	NC	NC	NC	NC	2E+01	2E-01
	Cesium-137	0.0853	0.0853	2E-06	2E-06	NC	NC	4E-03	4E-03	NC	NC	NC	NC
	Strontium-90	0.197	0.197	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	3E-07								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			2E-05	2E-06	2E+00	2E-01						

Notes:
Exposure point concentrations for chemicals are in milligrams per kilogram (mg/kg)
Exposure point concentrations for radionuclides are in picocuries per gram (pCi/g)

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
RMHF Grid I13	Aroclor 1260	0.0528	0.00903	2E-07	4E-08	4.80E-02	8E-03	1E-03	2E-04	1E-04	2E-05	2E-01	4E-02
	Benzo(a)pyrene	0.821	0.00364	2E-05	9E-08	NC	NC	5E-01	2E-03	5E-02	2E-04	3E-03	1E-05
	Total TEQ_BAP	2.62	0.00438	7E-05	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.22E-05	1.22E-06	3E-06	3E-07	2.42E-01	2E-02	NC	NC	NC	NC	2E+00	2E-01
	Antimony	64.4	0.436	NC	NC	2.44E+00	2E-02	1E+01	9E-02	8E-01	6E-03	3E+01	2E-01
	Cadmium	0.736	0.314	9E-10	4E-10	1.60E-01	7E-02	2E-02	1E-02	5E-03	2E-03	9E-01	4E-01
	Lead	1916	18.2	NC	NC	2.40E+01	2E-01	2E+01	2E-01	1E+00	1E-02	5E+01	5E-01
	Phenanthrene	1.55	0.00288	NC	NC	9.43E-05	2E-07	1E+00	2E-03	5E-02	1E-04	4E-03	8E-06
	Zinc	241	93.8	NC	NC	1.05E-02	4E-03	2E+00	6E-01	2E+00	8E-01	6E-01	2E-01
	Cobalt-60	0.00427	0.00427	4E-07	4E-07	NC	NC	6E-06	6E-06	NC	NC	NC	NC
	Cesium-137	1.39	0.199	3E-05	4E-06	NC	NC	7E-02	1E-02	NC	NC	NC	NC
	Strontium-90	2.44	0.314	7E-07	9E-08	NC	NC	1E-01	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-05	4E-07								
	Total Radiological Risk/HI			3E-05	4E-06								
	Total Chemical and Rad Risk/HI			1E-04	5E-06	3E+01	3E-01						
SRE Grid H15	Aroclor 1254	0.0668	0.0175	3E-07	8E-08	6E-02	2E-02	2E-03	4E-04	1E-04	3E-05	2E-01	4E-02
	Aroclor 5460	0.562	0.0568	2E-06	2E-07	5E-01	5E-02	1E-02	1E-03	1E-03	1E-04	1E+00	1E-01
	Total TEQ_BAP	0.599	0.0138	2E-05	4E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.40E-05	5.83E-06	1E-05	1E-06	1E+00	1E-01	NC	NC	NC	NC	1E+01	1E+00
	Benzo(a)anthracene	0.269	0.0067	7E-07	2E-08	NC	NC	2E-01	4E-03	1E-02	4E-04	5E-03	1E-04
	Benzo(a)pyrene	0.285	0.00791	7E-06	2E-07	NC	NC	2E-01	5E-03	2E-02	4E-04	9E-04	3E-05
	Benzo(b)fluoranthene	0.457	0.0101	1E-06	3E-08	NC	NC	4E-01	8E-03	3E-02	6E-04	3E-03	7E-05
	Benzo(k)fluoranthene	0.231	0.00569	6E-07	1E-08	NC	NC	2E-01	5E-03	1E-02	3E-04	7E-04	2E-05
	Dibenzo(a,h)anthracene	0.031	0.00421	3E-07	4E-08	NC	NC	3E-02	4E-03	2E-03	2E-04	2E-04	3E-05
	Indeno(1,2,3-cd)pyrene	0.178	0.00590	5E-07	2E-08	NC	NC	1E-01	5E-03	1E-02	3E-04	6E-04	2E-05
	Chromium (Hexavalent)	2.00	1.43	2E-06	1E-06	9E-03	6E-03	7E-02	5E-02	1E+00	7E-01	5E-02	4E-02
	Lead	16.4	15.6	NC	NC	2E-01	2E-01	1E-01	1E-01	1E-02	9E-03	4E-01	4E-01
	Mercury	4.61	0.1160	NC	NC	3E-01	7E-03	2E+01	4E-01	5E+01	1E+00	3E+00	7E-02
	Antimony	0.619	0.420	NC	NC	2E-02	2E-02	1E-01	8E-02	8E-03	5E-03	3E-01	2E-01
	Cadmium	0.888	0.479	1E-09	6E-10	2E-01	1E-01	3E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Molybdenum	3.22	0.863	NC	NC	8E-03	2E-03	2E+00	4E-01	NC	NC	1E+00	3E-01
	Zinc	228	146	NC	NC	1E-02	6E-03	1E+00	9E-01	2E+00	1E+00	6E-01	4E-01
	Cobalt-60	0.00230	0.00281	2E-07	2E-07	NC	NC	3E-06	4E-06	NC	NC	NC	NC
	Cesium-137	7.32	0.277	1E-04	5E-06	NC	NC	4E-01	1E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0132	0.0132	9E-09	9E-09	NC	NC	2E-06	2E-06	NC	NC	NC	NC
	Strontium-90	1.95	0.215	5E-07	6E-08	NC	NC	9E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-05	3E-06								
	Total Radiological Risk/HI			1E-04	6E-06								
	Total Chemical and Rad Risk/HI			2E-04	9E-06	2E+00	5E-01						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
17th Street Pond Grid M14	Aroclor 1248	0.0290	0.00710	1E-07	3E-08	3E-02	6E-03	7E-04	2E-04	6E-05	1E-05	5E-01	1E-01
	Benzo(a)pyrene	6.20	0.00688	2E-04	2E-07	NC	NC	4E+00	5E-03	3E-01	4E-04	2E-02	2E-05
	Benzo(a)anthracene	1.86	0.00720	5E-06	2E-08	NC	NC	1E+00	5E-03	1E-01	4E-04	4E-02	1E-04
	Benzo(b)fluoranthene	5.77	0.00936	1E-05	2E-08	NC	NC	5E+00	8E-03	3E-01	5E-04	4E-02	6E-05
	Benzo(k)fluoranthene	3.84	0.00530	1E-05	1E-08	NC	NC	3E+00	4E-03	2E-01	3E-04	1E-02	2E-05
	Chrysene	2.80	0.00839	7E-07	2E-09	NC	NC	2E+00	7E-03	2E-01	5E-04	4E-02	1E-04
	Dibenzo(a,h)anthracene	0.2104	0.00361	2E-06	3E-08	NC	NC	2E-01	3E-03	1E-02	2E-04	2E-03	3E-05
	Indeno(1,2,3-cd)pyrene	14.4	0.00599	4E-05	2E-08	NC	NC	1E+01	5E-03	8E-01	3E-04	5E-02	2E-05
	Total TEQ_BAP	13.0	0.0140	3E-04	4E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.08E-05	5.28E-06	8E-06	1E-06	8E-01	1E-01	NC	NC	NC	NC	8E+00	1E+00
	Chromium (Hexavalent)	0.968	0.864	8E-07	7E-07	4E-03	4E-03	3E-02	3E-02	5E-01	4E-01	3E-02	2E-02
	Lead	30.0	27.3	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	2E-02	8E-01	7E-01
	Mercury	0.675	0.0968	NC	NC	4E-02	6E-03	2E+00	3E-01	7E+00	1E+00	4E-01	6E-02
	Antimony	3.07	0.356	NC	NC	1E-01	1E-02	6E-01	7E-02	4E-02	5E-03	2E+00	2E-01
	Bis(2-ethylhexyl)phthalate	8.78	0.0385	5E-08	2E-10	7E-03	3E-05	9E-03	4E-05	NC	NC	5E-02	2E-04
	Cadmium	1.13	0.590	1E-09	7E-10	2E-01	1E-01	4E-02	2E-02	8E-03	4E-03	1E+00	7E-01
	MCPA	0.757	0.641	NC	NC	2E-02	2E-02	NC	NC	NC	NC	1E+00	1E+00
	Phenanthrene	1.87	0.00797	NC	NC	1E-04	5E-07	2E+00	7E-03	6E-02	3E-04	5E-03	2E-05
	Silver	9.95	3.67	NC	NC	4E-02	2E-02	2E-02	7E-03	NC	NC	8E-02	3E-02
	Zinc	496	159	NC	NC	2E-02	7E-03	3E+00	1E+00	4E+00	1E+00	1E+00	4E-01
	Cesium-137	0.359	0.153	7E-06	3E-06	NC	NC	2E-02	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			3E-04	2E-06								
	Total Radiological Risk/HI			7E-06	3E-06								
	Total Chemical and Rad Risk/HI			4E-04	5E-06	2E+00	6E-01						
Building 4064 NW Grid I17	Aroclor 1254	0.689	0.00838	3E-06	4E-08	6E-01	8E-03	2E-02	2E-04	1E-03	2E-05	2E+00	2E-02
	Benzo(a)pyrene	0.0140	0.0132	4E-07	3E-07	NC	NC	9E-03	9E-03	8E-04	7E-04	5E-05	4E-05
	Total TEQ_BAP	0.0122	0.0118	3E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.76E-05	5.59E-06	4E-06	1E-06	3E-01	1E-01	NC	NC	NC	NC	4E+00	1E+00
	Cesium-137	0.141	0.141	3E-06	3E-06	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			7E-06	2E-06								
	Total Radiological Risk/HI			3E-06	3E-06								
	Total Chemical and Rad Risk/HI			1E-05	4E-06	1E+00	1E-01						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
Building 4064 NE Grid I18	Benzo(a)pyrene	0.0129	0.00547	3E-07	1E-07	NC	NC	9E-03	4E-03	7E-04	3E-04	4E-05	2E-05
	Total TEQ_BAP	0.0157	0.00540	4E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.47E-05	2.91E-06	5E-06	6E-07	5E-01	6E-02	NC	NC	NC	NC	5E+00	6E-01
	Barium	420	163	NC	NC	4E-02	1E-02	8E-01	3E-01	1E+00	5E-01	5E+00	2E+00
	Chromium (Hexavalent)	4.00	1.44	3E-06	1E-06	2E-02	6E-03	1E-01	5E-02	2E+00	7E-01	1E-01	4E-02
	Lead	32.9	25.2	NC	NC	4E-01	3E-01	3E-01	2E-01	2E-02	1E-02	3E-01	2E-01
	Silver	53.4	0.475	NC	NC	2E-01	2E-03	1E-01	8E-04	NC	NC	4E-01	4E-03
	Zinc	1039	149	NC	NC	5E-02	7E-03	4E+00	5E-01	3E+00	4E-01	3E+00	4E-01
	Cesium-137	120	0.415	2E-03	8E-06	NC	NC	6E+00	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			9E-06	2E-06								
	Total Radiological Risk/HI			2E-03	8E-06								
	Total Chemical and Rad Risk/HI			2E-03	1E-05	1E+00	4E-01						
Building 4064 SW Grid J17	Benzo(a)pyrene	0.0172	0.00932	4E-07	2E-07	NC	NC	1E-02	6E-03	1E-03	5E-04	6E-05	3E-05
	Total TEQ_BAP	0.0222	0.0117	6E-07	3E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.38E-06	3.44E-06	1E-06	7E-07	1E-01	7E-02	NC	NC	NC	NC	1E+00	7E-01
	Cesium-137	0.445	0.117	8E-06	2E-06	NC	NC	2E-02	6E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-06	1E-06								
	Total Radiological Risk/HI			8E-06	2E-06								
	Total Chemical and Rad Risk/HI			1E-05	3E-06	1E-01	7E-02						
Building 4064 SE Grid J18	Benzo(a)pyrene	0.567	0.00499	1E-05	1E-07	NC	NC	4E-01	3E-03	3E-02	3E-04	2E-03	2E-05
	Total TEQ_BAP	0.872	0.00627	2E-05	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Cesium-137	2.84	2.84	5E-05	5E-05	NC	NC	1E-01	1E-01	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	2E-07								
	Total Radiological Risk/HI			5E-05	5E-05								
	Total Chemical and Rad Risk/HI			8E-05	5E-05	NC	NC						
H14	Antimony	0.607	0.400	NC	NC	2E-02	2E-02	1E-01	8E-02	8E-03	5E-03	3E-01	2E-01
	Benzo(a)pyrene	0.00760	0.00402	2E-07	1E-07	NC	NC	5E-03	3E-03	4E-04	2E-04	2E-05	1E-05
	Naphthalene	23.5	23.5	2E-06	2E-06	3E-02	3E-02	2E-01	2E-01	8E-01	8E-01	2E-01	2E-01
	Total TEQ_BAP	0.00890	0.00411	2E-07	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.16E-04	2.91E-06	2E-05	6E-07	2E+00	6E-02	NC	NC	NC	NC	23.16	6E-01
	Cesium-137	0.666	0.697	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.163	0.163	5E-08	5E-08	NC	NC	7E-03	7E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	7E-07								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			4E-05	1E-05	2E+00	1E-01						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
H19	Aroclor 1254	0.318	0.214	1E-06	9E-07	3E-01	2E-01	8E-03	5E-03	6E-04	4E-04	8E-01	5E-01
	Aroclor 5460	0.0658	0.042	3E-07	2E-07	6E-02	4E-02	2E-03	1E-03	1E-04	8E-05	2E-01	1E-01
	Benzo(a)pyrene	0.125	0.0395	3E-06	1E-06	NC	NC	8E-02	3E-02	7E-03	2E-03	4E-04	1E-04
	Cadmium	1.33	0.86	2E-09	1E-09	3E-01	2E-01	4E-02	3E-02	9E-03	6E-03	2E+00	1E+00
	Chromium (Hexavalent Compounds)	1.54	1.18	1E-06	9E-07	7E-03	5E-03	5E-02	4E-02	8E-01	6E-01	4E-02	3E-02
	Lead	51.7	27.5	NC	NC	6E-01	3E-01	4E-01	2E-01	3E-02	2E-02	1E+00	7E-01
	MCPA	2.10	0.93	NC	NC	6E-02	3E-02	NC	NC	NC	NC	3E+00	2E+00
	Mercury	2.63	0.09	NC	NC	2E-01	5E-03	9E+00	3E-01	3E+01	9E-01	2E+00	5E-02
	Total TEQ_BAP	0.182	0.0850	5E-06	2E-06	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	4.63E-05	5.23E-06	1E-05	1E-06	9E-01	1E-01	NC	NC	NC	NC	9E+00	1E+00
	Cesium-137	0.458	0.513	9E-06	1E-05	NC	NC	2E-02	2E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	5E-06								
	Total Radiological Risk/HI			9E-06	1E-05								
	Total Chemical and Rad Risk/HI			3E-05	1E-05	2E+00	9E-01						
N13	Aroclor 1254	0.111	0.0485	5E-07	2E-07	1E-01	4E-02	3E-03	1E-03	2E-04	1E-04	3E-01	1E-01
	Benzo(a)pyrene	0.0559	0.0157	1E-06	4E-07	NC	NC	4E-02	1E-02	3E-03	9E-04	2E-04	5E-05
	Cadmium	0.666	0.418	8E-10	5E-10	1E-01	9E-02	2E-02	1E-02	5E-03	3E-03	8E-01	5E-01
	Lead	40.5	29.2	NC	NC	5E-01	4E-01	4E-01	3E-01	2E-02	2E-02	1E+00	7E-01
	MCPA	0.591	0.520	NC	NC	2E-02	2E-02	NC	NC	NC	NC	1E+00	9E-01
	Selenium	0.659	0.633	NC	NC	2E-03	2E-03	1E+00	1E+00	2E-01	2E-01	4E-01	4E-01
	Total TEQ_BAP	0.241	0.0363	6E-06	9E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	5.03E-05	5.77E-06	1E-05	1E-06	1E+00	1E-01	NC	NC	NC	NC	1E+01	1E+00
	Zinc	180	1.52E+02	NC	NC	8E-03	7E-03	1E+00	9E-01	2E+00	1E+00	4E-01	4E-01
	Total Chemical Risk/HI			2E-05	2E-06	2E+00	6E-01						
O10	Benzo(a)pyrene	0.0977	0.0045	3E-06	1E-07	NC	NC	7E-02	3E-03	5E-03	2E-04	3E-04	1E-05
	Cadmium	0.648	0.615	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	8E-01
	MCPA	1.21	0.761	NC	NC	4E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Mercury	10.9	0.123	NC	NC	7E-01	7E-03	4E+01	4E-01	1E+02	1E+00	6E+00	7E-02
	Total TEQ_BAP	0.143	0.004	4E-06	1E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	7.58E-06	2.61E-06	2E-06	5E-07	2E-01	5E-02	NC	NC	NC	NC	2E+00	5E-01
	Strontium-90	0.192	0.192	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	7E-07								
	Total Radiological Risk/HI			5E-08	5E-08								
	Total Chemical and Rad Risk/HI			5E-06	7E-07	1E+00	2E-01						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
F18	Antimony	1.35	0.466	NC	NC	5E-02	2E-02	3E-01	9E-02	2E-02	6E-03	7E-01	2E-01
	Aroclor 1254	0.398	0.0137	2E-06	6E-08	4E-01	1E-02	1E-02	3E-04	8E-04	3E-05	1E+00	4E-02
	Aroclor 1260	0.0109	0.0106	5E-08	5E-08	1E-02	1E-02	3E-04	3E-04	2E-05	2E-05	4E-02	4E-02
	Aroclor 5460	0.502	0.0206	2E-06	9E-08	5E-01	2E-02	1E-02	5E-04	1E-03	4E-05	1E+00	5E-02
	Benzo(a)pyrene	0.0478	0.00305	1E-06	8E-08	NC	NC	3E-02	2E-03	3E-03	2E-04	2E-04	1E-05
	Cadmium	0.787	0.446	9E-10	5E-10	2E-01	1E-01	2E-02	1E-02	6E-03	3E-03	1E+00	6E-01
	Lead	681	27.3	NC	NC	9E+00	3E-01	6E+00	2E-01	4E-01	2E-02	2E+01	7E-01
	Mercury	6.72	0.137	NC	NC	4E-01	8E-03	2E+01	5E-01	7E+01	1E+00	4E+00	8E-02
	Total TEQ_BAP	1.36E-01	2.66E-03	4E-06	7E-08	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	1.35E-05	1.29E-06	3E-06	3E-07	3E-01	3E-02	NC	NC	NC	NC	3E+00	3E-01
	Zinc	266	94.8	NC	NC	1E-02	4E-03	2E+00	6E-01	2E+00	8E-01	6E-01	2E-01
	Total Chemical Risk/HI			1E-05	5E-07	1E+01	5E-01						
G17	Cadmium	0.584	0.389	7E-10	5E-10	1E-01	8E-02	2E-02	1E-02	4E-03	3E-03	7E-01	5E-01
	MCPA	0.94	0.91	NC	NC	3E-02	3E-02	NC	NC	NC	NC	2E+00	1E+00
	Mercury	0.0933	0.0592	NC	NC	6E-03	4E-03	3E-01	2E-01	9E-01	6E-01	5E-02	3E-02
	Total TEQ_Dioxin	2.43E-05	3.57E-06	5E-06	7E-07	5E-01	7E-02	NC	NC	NC	NC	5E+00	7E-01
	Zinc	685	105	NC	NC	3E-02	5E-03	4E+00	7E-01	6E+00	9E-01	2E+00	3E-01
	Cesium-137	0.123	0.123	2E-06	2E-06	NC	NC	6E-03	6E-03	NC	NC	NC	NC
	Plutonium-239/240	0.0123	0.0123	8E-09	8E-09	NC	NC	2E-06	2E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	7E-07								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			7E-06	3E-06	7E-01	2E-01						
H17	Aroclor 1254	0.237	0.009256	1E-06	4E-08	2E-01	8E-03	6E-03	2E-04	5E-04	2E-05	6E-01	2E-02
	Aroclor 5460	2.568	0.0229	1E-05	1E-07	2E+00	2E-02	6E-02	6E-04	5E-03	5E-05	7E+00	6E-02
	Cadmium	0.545	0.451	6E-10	5E-10	1E-01	1E-01	2E-02	1E-02	4E-03	3E-03	7E-01	6E-01
	Total TEQ_Dioxin	1.23E-05	4.26E-06	3E-06	9E-07	2E-01	8E-02	NC	NC	NC	NC	2E+00	9E-01
	Cesium-137	0.924	0.85	2E-05	2E-05	NC	NC	4E-02	4E-02	NC	NC	NC	NC
	Plutonium-239/240	0.0198	0.0198	1E-08	1E-08	NC	NC	3E-06	3E-06	NC	NC	NC	NC
	Total Chemical Risk/HI			1E-05	1E-06								
	Total Radiological Risk/HI			2E-05	2E-05								
	Total Chemical and Rad Risk/HI			3E-05	2E-05	3E+00	2E-01						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
I14	Aroclor 1254	0.329	0.237	1E-06	1E-06	3E-01	2E-01	8E-03	6E-03	7E-04	5E-04	8E-01	6E-01
	Aroclor 1260	0.0166	0.0153	7E-08	7E-08	2E-02	1E-02	4E-04	4E-04	3E-05	3E-05	7E-02	6E-02
	Aroclor 5460	0.251	0.245	1E-06	1E-06	2E-01	2E-01	6E-03	6E-03	5E-04	5E-04	6E-01	6E-01
	Cadmium	0.391	0.468	5E-10	6E-10	9E-02	1E-01	1E-02	1E-02	3E-03	3E-03	5E-01	6E-01
	Total TEQ_Dioxin	8.37E-06	4.90E-06	2E-06	1E-06	2E-01	1E-01	NC	NC	NC	NC	2E+00	1E+00
	Cesium-137	0.679	0.545	1E-05	1E-05	NC	NC	3E-02	3E-02	NC	NC	NC	NC
	Strontium-90	0.25	0.25	7E-08	7E-08	NC	NC	1E-02	1E-02	NC	NC	NC	NC
	Total Chemical Risk/HI			4E-06	3E-06								
	Total Radiological Risk/HI			1E-05	1E-05								
	Total Chemical and Rad Risk/HI			2E-05	1E-05	8E-01	7E-01						
N10	Antimony	3.58	0.61	NC	NC	1E-01	2E-02	7E-01	1E-01	5E-02	8E-03	2E+00	3E-01
	Benzo(a)pyrene	0.353	0.0050	9E-06	1E-07	NC	NC	2E-01	3E-03	2E-02	3E-04	1E-03	2E-05
	Cadmium	0.534	0.363	6E-10	4E-10	1E-01	8E-02	2E-02	1E-02	4E-03	3E-03	7E-01	4E-01
	Chromium (Hexavalent)	6.30	1.25	5E-06	1E-06	3E-02	5E-03	2E-01	4E-02	3E+00	6E-01	2E-01	3E-02
	Lead	128	25.1	NC	NC	2E+00	3E-01	1E+00	2E-01	8E-02	1E-02	3E+00	6E-01
	Total TEQ_BAP	0.508	0.0075	1E-05	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	3.65E-06	2.40E-06	8E-07	5E-07	7E-02	5E-02	NC	NC	NC	NC	7E-01	5E-01
	Strontium-90	0.0768	0.0768	2E-08	2E-08	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	2E-06								
	Total Radiological Risk/HI			2E-08	2E-08								
	Total Chemical and Rad Risk/HI			2E-05	2E-06	2E+00	5E-01						
O6	Aroclor 1254	0.280	0.0264	1E-06	1E-07	3E-01	2E-02	7E-03	7E-04	6E-04	5E-05	7E-01	7E-02
	Aroclor 5460	2.97	0.0155	1E-05	7E-08	3E+00	1E-02	7E-02	4E-04	6E-03	3E-05	8E+00	4E-02
	Benzo(a)pyrene	0.0172	0.0058	4E-07	2E-07	NC	NC	1E-02	4E-03	1E-03	3E-04	6E-05	2E-05
	Total TEQ_BAP	0.0239	0.0080	6E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.01E-06	1.05E-06	4E-07	2E-07	4E-02	2E-02	NC	NC	NC	NC	4E-01	2E-01
	Strontium-90	0.12	0.12	3E-08	3E-08	NC	NC	5E-03	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	6E-07								
	Total Radiological Risk/HI			3E-08	3E-08								
	Total Chemical and Rad Risk/HI			2E-05	6E-07	3E+00	6E-02						

TABLE 3-4 Summary of Cancer Risks and Hazards for Cleanup to Revised LUT Alternative

Exposure Area	Chemical Name	Pre-Removal Exposure Point Concentration	Post-Removal Exposure Point Concentration	Residential Risk				Ecological Risk					
				Human Health				Terrestrial Plants		Soil Invertebrates		Birds/Mammals	
				Cancer		Non-Cancer		Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ	Pre-Removal HQ	Post-Removal HQ
				Pre-Removal Risk	Post-Removal Risk	Pre-Removal Hazard	Post-Removal Hazard						
P6	Antimony	422	0.56	NC	NC	2E+01	2E-02	8E+01	1E-01	5E+00	7E-03	2E+02	3E-01
	Benzo(a)pyrene	0.00790	0.00469	2E-07	1E-07	NC	NC	5E-03	3E-03	4E-04	3E-04	3E-05	2E-05
	Cadmium	1.02	0.408	1E-09	5E-10	2E-01	9E-02	3E-02	1E-02	7E-03	3E-03	1E+00	5E-01
	Lead	8033	34.7	NC	NC	1E+02	4E-01	7E+01	3E-01	5E+00	2E-02	2E+02	9E-01
	Total TEQ_BAP	0.00887	0.00635	2E-07	2E-07	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	2.08E-05	7.27E-07	4E-06	2E-07	4E-01	1E-02	NC	NC	NC	NC	4E+00	1E-01
	Cesium-137	0.0655	0.0655	1E-06	1E-06	NC	NC	3E-03	3E-03	NC	NC	NC	NC
	Strontium-90	0.241	0.109	7E-08	3E-08	NC	NC	1E-02	5E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			5E-06	3E-07								
	Total Radiological Risk/HI			1E-06	1E-06								
	Total Chemical and Rad Risk/HI			6E-06	2E-06	1E+02	6E-01						
P11	Benzo(a)pyrene	0.00444	0.00251	1E-07	6E-08	NC	NC	3E-03	2E-03	2E-04	1E-04	1E-05	8E-06
	Cadmium	0.641	0.581	8E-10	7E-10	1E-01	1E-01	2E-02	2E-02	5E-03	4E-03	8E-01	7E-01
	MCPA	1	0.739	NC	NC	3E-02	2E-02	NC	NC	NC	NC	2E+00	1E+00
	Total TEQ_BAP	0.0262	0.003256	7E-07	8E-08	NC	NC	NC	NC	NC	NC	NC	NC
	Total TEQ_Dioxin	8.85E-05	1.36E-06	2E-05	3E-07	2E+00	3E-02	NC	NC	NC	NC	2E+01	3E-01
	Cesium-137	0.0853	0.0853	2E-06	2E-06	NC	NC	4E-03	4E-03	NC	NC	NC	NC
	Strontium-90	0.197	0.197	5E-08	5E-08	NC	NC	9E-03	9E-03	NC	NC	NC	NC
	Total Chemical Risk/HI			2E-05	4E-07								
	Total Radiological Risk/HI			2E-06	2E-06								
	Total Chemical and Rad Risk/HI			2E-05	2E-06	2E+00	2E-01						

Notes:
Exposure point concentrations for chemicals are in milligrams per kilogram (mg/kg)
Exposure point concentrations for radionuclides are in picocuries per gram (pCi/g)

Table 4-2 Conservation of Natural Resources Alternative Areas and Volumes by Exposure Area

Exposure Area/ Grid	Open Space Option		Residential Option	
	Area (ft ²)	Volume (yd ³)	Area (ft ²)	Volume (yd ³)
I13	3,176	294	4,010	371
H15	21,897	2,027	23,140	2,615
M14	26,021	2,409	26,021	4,454
I17	9,385	869	9,385	869
I18	9,230	855	9,230	855
J17	2,271	210	2,271	210
J18	1,145	106	1,145	106
H14	3,935	364	4,192	388
H19	11,904	1,102	11,904	1,491
N13	6,823	632	8,340	1,202
O10	17,779	1,646	20,766	1,923
F18	7,052	653	8,042	836
G17	3,280	304	3,280	304
H17	3,745	347	3,745	347
I14	694	64	694	64
N10	929	86	1,418	131
O6	5,547	514	5,547	514
P6	3,852	357	9,986	185
P11	8,006	741	20,757	1,558

Notes:

ft² – square feetyd³ – cubic yards

Table 5-1 Summary of Total Human Health Cancer Risks and Hazards

Exposure Area	Residential Risk								Recreational Risk			
	Cancer Risk				Non-Cancer Risk (HI)				Cancer Risk		Non-Cancer Risk (HI)	
	No Action	Conservation of Natural Resources - Residential Option	Cleanup to Revised LUT Alternative	Cleanup to AOC LUT - Residential Option	No Action	Conservation of Natural Resources - Residential Option	Cleanup to Revised LUT Alternative	Cleanup to AOC LUT - Residential Option	No Action	Conservation of Natural Resources - Open Space Option	No Action	Conservation of Natural Resources - Open Space Option
I13 - RMHF	1E-04	2E-05	5E-06	5E-06	30	0.6	0.3	0.3	3E-05	4E-06	6	0.2
H15 - SRE	2E-04	2E-05	9E-06	8E-06	2	0.5	0.5	0.5	2E-05	7E-06	0.6	0.1
M14 - 17th Street Pond	4E-04	1E-05	5E-06	5E-06	2	0.7	0.6	0.6	1E-04	2E-06	0.4	0.2
I17 - Building 4064 NW	1E-05	4E-06	4E-06	4E-06	1	0.1	0.1	0.1	3E-06	7E-07	0.2	0.03
I18 - Building 4064 NE	2E-03	1E-05	1E-05	4E-06	1	0.5	0.4	0.4	2E-04	1E-06	0.3	0.1
J17 - Building 4064 SW	1E-05	1E-05	3E-06	3E-06	0.1	0.1	0.1	0.1	1E-06	1E-06	0.02	0.02
J18 - Building 4064 SE	8E-05	5E-05	5E-05	5E-05	NC	NC	NC	NC	1E-05	1E-05	NC	NC
H14	4E-05	1E-05	1E-05	1E-05	2	0.1	0.1	0.1	8E-06	1E-06	0.5	0.03
H19	3E-05	2E-05	1E-05	1E-05	2	1	0.9	0.9	6E-06	3E-06	0.6	0.3
N13	2E-05	2E-06	2E-06	2E-06	2	0.8	0.6	0.6	6E-06	1E-06	0.4	0.2
O10	5E-06	3E-06	7E-07	4E-07	1	0.3	0.2	0.2	2E-06	2E-06	0.3	0.1
F18	1E-05	1E-06	5E-07	5E-07	10	0.5	0.5	0.5	4E-06	4E-07	2	0.1
G17	7E-06	4E-06	3E-06	3E-06	0.7	0.2	0.2	0.2	2E-06	5E-07	0.2	0.1
H17	3E-05	2E-05	2E-05	2E-05	3	0.2	0.2	0.2	8E-06	2E-06	0.7	0.1
I14	2E-05	2E-05	1E-05	1E-05	0.8	0.7	0.7	0.7	3E-06	3E-06	0.2	0.2
N10	2E-05	3E-06	2E-06	1E-06	2	0.6	0.5	0.4	7E-06	9E-07	0.5	0.1
O6	2E-05	1E-06	6E-07	6E-07	3	0.06	0.06	0.05	6E-06	4E-07	0.6	0.01
P6	6E-06	2E-06	2E-06	2E-06	100	0.7	0.6	0.6	1E-06	3E-07	30	0.2
P11	2E-05	3E-06	2E-06	2E-06	2	0.2	0.2	0.2	5E-06	8E-07	0.5	0.1
Minimum	5E-06	1E-06	5E-07	5E-07	0.1	0.06	0.06	0.05	1E-06	3E-07	0.02	0.01
Maximum	2E-03	5E-05	5E-05	5E-05	100	1	0.9	0.9	2E-04	1E-05	30	0.3
Average	2E-04	1E-05	8E-06	7E-06	9	0.4	0.4	0.4	2E-05	2E-06	2.4	0.1

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Appendix A

Selection of Chemical COCs

Table A-1 Selection of COCs for Grid I13
Table A-2 Selection of COCs for Grid H15
Table A-3 Selection of COCs for Grid M14
Table A-4 Selection of COCs for Grid I17
Table A-5 Selection of COCs for Grid I18
Table A-6 Selection of COCs for Grid J17
Table A-7 Selection of COCs for Grid J18
Table A-8 Selection of COCs for Grid H14
Table A-9 Selection of COCs for Grid H19
Table A-10 Selection of COCs for Grid N13
Table A-11 Selection of COCs for Grid O10
Table A-12 Selection of COCs for Grid F18
Table A-13 Selection of COCs for Grid G17
Table A-14 Selection of COCs for Grid H17
Table A-15 Selection of COCs for Grid I14
Table A-16 Selection of COCs for Grid N10
Table A-17 Selection of COCs for Grid O6
Table A-18 Selection of COCs for Grid P6
Table A-19 Selection of COCs for Grid P11

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Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					79	64	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					79	57	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					79	37	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HxCDD	ng/kg					79	52	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HxCDF	ng/kg					79	55	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HxCDD	ng/kg					79	61	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HxCDF	ng/kg					79	51	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HxCDD	ng/kg					79	54	68%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HxCDF	ng/kg					79	26	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					79	41	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					79	44	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-	µg/kg		97.8		1400	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropylene	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	111	17	15%	4	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HxCDF	ng/kg					79	37	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					79	44	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					79	27	34%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					79	60	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	34	6	18%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,4,5-Trichlorophenol	µg/kg		6110000		220000	66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	34	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	30	14	47%	14	47%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		2.1E+07	38	3	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-	µg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					72	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	111	22	20%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	54	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	33	18	55%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	34	22	65%	2	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					71	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Nitroaniline	µg/kg		34200		34000	66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	117	10	9%	9	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	116	9	8%	4	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	37	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	118	118	100%	0	0%	0	0%	0	0%	118	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					66	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	116	29	25%	12	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	118	58	49%	10	8%	1	1%	1	1%	5	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	103	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				103	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				103	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	103	2	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	103	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	103	49	48%	15	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	103	50	49%	11	11%	2	2%	0	0%	2	2%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Aroclor 1262	µg/kg	33				73	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				73	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				77	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				77	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	73	27	37%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	118	118	100%	1	1%	118	100%	118	100%	1	1%	No	Yes	Yes	Yes	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	118	118	100%	0	0%	0	0%	0	0%	29	25%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	116	40	34%	0	0%	4	3%	3	3%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	116	42	36%	21	18%	9	8%	7	6%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	116	57	49%	0	0%	5	4%	3	3%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	19	3	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	116	36	31%	18	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	116	45	39%	0	0%	3	3%	2	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	66	2	3%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	118	118	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	34	5	15%	2	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	116	54	47%	18	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	118	50	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromide	mg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Bromobenzene	µg/kg		236000		43000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	116	26	22%	2	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	118	110	93%	8	7%	2	2%	0	0%	8	7%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Calcium	mg/kg					73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	54	4	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	37	12	32%	3	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chloride	mg/kg					6	6	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	118	118	100%	0	0%	0	0%	0	0%	76	64%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	146	62	42%	0	0%	2	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	116	54	47%	0	0%	2	2%	2	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	118	118	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	118	118	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	53	3	6%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	37	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	33	5	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	116	17	15%	0	0%	4	3%	2	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	66	2	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	30	9	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichloroprop	µg/kg	2.4	686000	3200000	3900	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	116	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	116	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		116	13	11%	5	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	116	6	5%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	33	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				51	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	43	5	12%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	116	50	43%	34	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	116	22	19%	9	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	60	36	60%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	15	3	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	34	5	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	109	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				184	171	93%	141	77%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	116	34	29%	0	0%	3	3%	2	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	118	118	100%	4	3%	2	2%	1	1%	6	5%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	118	118	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				69	5	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately	mg/kg	5				141	17	12%	3	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	37	5	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	73	73	100%	1	1%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	31	2	6%	1	3%	0	0%	0	0%	2	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	31	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				157	48	31%	18	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	118	80	68%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				51	4	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Methoxychlor	µg/kg	2.4	343000	160000	50000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	43	11	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					130	130	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	118	84	71%	0	0%	0	0%	0	0%	3	3%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	61	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	140	29	21%	5	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	118	118	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				25	21	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	264	4	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					79	73	92%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					79	59	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Orthophosphate	mg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	61	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	72	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					128	128	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	116	43	37%	21	18%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Phenol	µg/kg	170	18300000	85500000	51000	72	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				130	130	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	61	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	117	49	42%	28	24%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	118	70	59%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	118	69	58%	5	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				132	83	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	37	9	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sulfate	mg/kg					6	5	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-1 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I13

Chemical Name	Unit	LUT	Res RBSL	Rec RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
tert-Butylbenzene	µg/kg		1730000		11000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	106	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	118	88	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	73	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					73	73	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	43	9	21%	6	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	110	63	57%	25	23%	11	10%	7	6%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	79	77	97%	23	29%	11	14%	3	4%	11	14%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	118	118	100%	0	0%	0	0%	0	0%	117	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	119	119	100%	8	7%	0	0%	0	0%	7	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	118	95	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
ng/kg – nanograms per kilogram
Rec. - Recreational
Res. - Residential

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					124	82	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					124	80	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					124	61	49%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					124	59	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					124	73	59%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					124	72	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					124	68	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					124	62	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					124	29	23%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					124	55	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					124	66	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	140	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	29	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	139	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	139	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	139	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	162	11	7%	5	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,6,7,8-HXCDF	ng/kg					124	62	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					124	55	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					124	56	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					124	64	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	24	6	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	24	8	33%	5	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					113	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					113	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-butoxyethanol	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	162	10	6%	7	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-phenoxyethanol	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					100	6	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	100	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	24	2	8%	2	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDE	µg/kg	8.6	1740	5830	280	24	6	25%	3	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	26	22	85%	4	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	162	23	14%	15	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	162	17	10%	5	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	33	6	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	24	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	163	163	100%	0	0%	0	0%	0	0%	163	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	162	55	34%	38	23%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	158	83	53%	7	4%	0	0%	0	0%	2	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	159	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				159	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				159	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	159	2	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	159	1	1%	1	1%	1	1%	1	1%	1	1%	No	Yes	Yes	Yes	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	163	79	48%	49	30%	12	7%	5	3%	7	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	162	40	25%	21	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				122	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				122	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				134	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				134	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	135	81	60%	35	26%	11	8%	6	4%	8	6%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Arsenic	mg/kg	46	0.0658	0.246	31	163	163	100%	1	1%	163	100%	163	100%	3	2%	No	Yes	Yes	Yes	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	163	163	100%	0	0%	0	0%	0	0%	77	47%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzidine	µg/kg					106	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	162	88	54%	0	0%	9	6%	2	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	162	90	56%	68	42%	28	17%	16	10%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	162	95	59%	0	0%	10	6%	4	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	14	3	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	162	93	57%	78	48%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	139	57	41%	0	0%	4	3%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	107	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	163	162	99%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	141	44	31%	15	11%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Boron	mg/kg	34	15200	71000	73	163	63	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	139	13	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	163	156	96%	12	7%	0	0%	0	0%	11	7%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	100	7	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	26	13	50%	4	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	163	163	100%	1	1%	0	0%	0	0%	135	83%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	200	114	57%	16	8%	18	9%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Chrysene	µg/kg		3870	9390	76000	162	97	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	163	163	100%	3	2%	6	4%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Copper	mg/kg	119	3040	14200	24	163	163	100%	0	0%	0	0%	0	0%	12	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	23	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	162	54	33%	0	0%	3	2%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	108	4	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	25	6	24%	4	16%	1	4%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Diethylene Glycol	mg/kg		6110			100	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	141	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	143	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		142	24	17%	6	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	142	14	10%	8	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	26	7	27%	2	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	25	6	24%	3	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	25	2	8%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				99	7	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					100	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	165	97	59%	72	44%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	165	21	13%	12	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	100	71	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	7	2	29%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	25	3	12%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	23	2	9%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	24	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	139	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	139	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
High Diesel Range Organics - Approximately >C20	mg/kg	5				320	247	77%	198	62%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	162	80	49%	0	0%	4	2%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	166	166	100%	5	3%	2	1%	1	1%	6	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	163	163	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				165	12	7%	3	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				267	14	5%	3	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	24	6	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	24	5	21%	3	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				166	58	35%	22	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	183	115	63%	61	33%	2	1%	0	0%	19	10%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Methanol	µg/kg	700				100	17	17%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Mercury	ug/kg	0.05	7610	35000	820	2	1	50%	1	50%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	33	2	6%	2	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	21	3	14%	3	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					143	143	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	163	162	99%	6	4%	0	0%	0	0%	21	13%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
m-Terphenyl	mg/kg		65		6.7	134	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	165	26	16%	9	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	163	163	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				5	3	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrite-NO2	mg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					113	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Nitroglycerin	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	310	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	100	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					124	87	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					124	81	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Organic Lead	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	134	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	130	4	3%	3	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					164	164	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	162	72	44%	53	33%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	108	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				163	163	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					100	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	134	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	163	90	55%	67	41%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	163	110	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	163	116	71%	3	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	24	7	29%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				163	152	93%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	33	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	198	4	2%	0	0%	2	1%	0	0%	2	1%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	163	157	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	123	10	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					123	123	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	33	12	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-2 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H15

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceed s ECO RBSL	% Exceed s ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	162	103	64%	72	44%	39	24%	17	10%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	124	93	75%	53	43%	23	19%	8	6%	23	19%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	163	163	100%	0	0%	0	0%	0	0%	162	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	163	163	100%	10	6%	0	0%	0	0%	7	4%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	163	96	59%	0	0%	4	2%	0	0%	1	1%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					52	43	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					52	40	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					52	35	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					52	37	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					52	30	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					52	44	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					52	32	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					52	44	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					52	31	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					52	32	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					52	31	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	80	29	36%	15	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					52	30	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,7,8-PECDF	ng/kg					52	31	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					52	30	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					52	32	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	26	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	26	7	27%	7	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					73	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					73	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	87	38	44%	19	22%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	25	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	25	4	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Amino-2,6-Dinitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	13	1	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	87	13	15%	9	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	87	26	30%	9	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	25	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	85	85	100%	0	0%	0	0%	0	0%	85	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	87	48	55%	23	26%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	85	45	53%	8	9%	0	0%	0	0%	8	9%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	83	8	10%	6	7%	1	1%	0	0%	2	2%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Aroclor 1254	µg/kg	17	232	564	390	83	32	39%	22	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	83	45	54%	24	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	48	23	48%	4	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	85	78	92%	0	0%	78	92%	78	92%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	85	85	100%	0	0%	0	0%	0	0%	56	66%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					59	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	87	57	66%	0	0%	6	7%	3	3%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	87	62	71%	40	46%	22	25%	16	18%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(b)fluoranthene	µg/kg		387	939	150000	87	65	75%	0	0%	11	13%	8	9%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	87	66	76%	54	62%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	71	37	52%	0	0%	5	7%	4	6%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	68	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	85	85	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	25	8	32%	6	24%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	78	40	51%	10	13%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Boron	mg/kg	34	15200	71000	73	85	62	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromide	mg/kg					26	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	74	9	12%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	87	83	95%	22	25%	0	0%	0	0%	20	23%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					55	55	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	42	3	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	25	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloride	mg/kg					26	23	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	85	85	100%	0	0%	0	0%	0	0%	80	94%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent	mg/kg	2	1.29	6.27	30	78	72	92%	4	5%	6	8%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Chrysene	µg/kg		3870	9390	76000	87	66	76%	0	0%	2	2%	2	2%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	85	85	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	85	85	100%	0	0%	0	0%	0	0%	18	21%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Cymene	µg/kg		1940000		37000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	25	3	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	87	33	38%	0	0%	6	7%	3	3%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	70	5	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	26	4	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	26	2	8%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	25	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	78	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	74	2	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		78	13	17%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	74	20	27%	7	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	25	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	24	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	25	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	13	2	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	86	61	71%	37	43%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	87	16	18%	8	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	65	46	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	25	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					70	5	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
High Diesel Range Organics - Approximately >C20	mg/kg	5				59	44	75%	37	63%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	86	63	73%	0	0%	10	12%	9	10%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					55	55	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	85	85	100%	7	8%	1	1%	0	0%	13	15%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	78	78	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				47	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				53	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	13	2	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					55	55	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	55	55	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	26	13	50%	3	12%	0	0%	0	0%	6	23%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	26	4	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				47	12	26%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	85	66	78%	17	20%	1	1%	0	0%	1	1%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Methanol	µg/kg	700				3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	13	1	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					39	39	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	85	79	93%	0	0%	0	0%	0	0%	3	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	87	45	52%	15	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	85	85	100%	0	0%	0	0%	0	0%	9	11%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				29	15	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrite-NO2	mg/kg					26	3	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					73	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	180	2	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
N-Nitroso-di-n-propylamine	µg/kg					70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	61	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					52	46	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					52	41	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Orthophosphate	mg/kg					26	9	35%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	44	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					71	71	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	87	62	71%	37	43%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Phenol	µg/kg	170	18300000	85500000	51000	70	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					48	48	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				85	85	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	87	60	69%	38	44%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
PYRIDINE	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	85	68	80%	4	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	87	78	90%	36	41%	0	0%	0	0%	2	2%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	26	6	23%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				85	70	82%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	48	48	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sulfate	mg/kg					26	21	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	85	77	91%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	48	6	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					48	48	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	87	67	77%	45	52%	26	30%	18	21%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes

Table A-3 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - M14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	52	48	92%	29	56%	18	35%	15	29%	17	33%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	85	85	100%	0	0%	0	0%	0	0%	85	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	87	87	100%	17	20%	0	0%	0	0%	13	15%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	78	65	83%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
ng/kg – nanograms per kilogram
Rec. - Recreational
Res. - Residential

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
% Solids	%					1	1	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	9	4	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					48	33	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					48	24	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					48	37	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					48	26	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					48	33	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					48	18	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					48	28	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					48	21	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	33	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	66	2	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					48	26	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					48	18	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDD	ng/kg					48	20	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					48	21	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	11	2	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	11	4	36%	2	18%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	9	2	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	66	6	9%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	11	2	18%	1	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	11	5	45%	1	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	11	6	55%	1	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Nitroaniline	µg/kg		34200		34000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	66	2	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	66	6	9%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	65	65	100%	0	0%	0	0%	0	0%	65	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	66	13	20%	4	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	63	27	43%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	69	10	14%	3	4%	2	3%	2	3%	2	3%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	69	9	13%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				54	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				54	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	54	6	11%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	65	65	100%	0	0%	65	100%	65	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	65	65	100%	0	0%	0	0%	0	0%	40	62%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					22	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	66	18	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	66	20	30%	9	14%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	66	24	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	9	2	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	66	23	35%	11	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	61	12	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	47	12	26%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	65	27	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	65	55	85%	1	2%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Calcium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	11	5	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	65	65	100%	0	0%	0	0%	0	0%	62	95%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	48	34	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	66	26	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	66	4	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	10	1	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	11	3	27%	1	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	47	7	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		47	10	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Endosulfan I	µg/kg	0.24	412000	1920000	4200	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	11	2	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				9	1	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	66	27	41%	10	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	66	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	23	18	78%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				100	49	49%	34	34%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	66	14	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	65	65	100%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				65	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	11	1	9%	0	0%	0	0%	0	0%	1	9%	No	No	No	Yes	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				50	7	14%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Mercury	mg/kg	0.13	16.8	78.2	1.7	65	33	51%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	11	2	18%	2	18%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	65	64	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	66	11	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	65	65	100%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	132	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					48	38	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	66	19	29%	9	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	66	23	35%	9	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	65	54	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	65	46	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				65	48	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-4 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Thallium	mg/kg	1.2	0.761	3.55	8.2	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	47	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	66	31	47%	10	15%	2	3%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	48	45	94%	20	42%	10	21%	4	8%	10	21%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	65	65	100%	0	0%	0	0%	0	0%	64	98%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	65	65	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	65	29	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	8	4	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					29	22	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					29	19	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					29	20	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					29	17	59%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					29	18	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					29	19	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					29	20	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					29	19	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					29	13	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					29	14	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					29	15	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	46	2	4%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					29	19	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,7,8-PECDF	ng/kg					29	15	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					29	10	34%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					29	16	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	7	2	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	7	1	14%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	46	2	4%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	7	3	43%	2	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	7	6	86%	2	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	7	6	86%	2	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Bromophenyl-phenylether	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	47	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	47	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	43	43	100%	0	0%	0	0%	0	0%	43	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	47	8	17%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	40	19	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	48	7	15%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	48	8	17%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	24	6	25%	2	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	49	43	88%	0	0%	43	88%	43	88%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	50	50	100%	3	6%	0	0%	0	0%	35	70%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Benzene	µg/kg	5	115	1560	730000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	47	18	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	47	19	40%	7	15%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	47	21	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	10	3	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	47	19	40%	9	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	42	6	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	49	43	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	34	19	56%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	43	12	28%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	49	42	86%	1	2%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Calcium	mg/kg					23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	7	6	86%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	49	49	100%	0	0%	0	0%	0	0%	47	96%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	24	20	83%	2	8%	2	8%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Chrysene	µg/kg		3870	9390	76000	47	21	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	49	49	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	49	49	100%	0	0%	0	0%	0	0%	2	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	47	5	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

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Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Dibromochloromethane	µg/kg		7280		59000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	7	5	71%	5	71%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		34	17	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	6	1	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	7	2	29%	2	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	7	2	29%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	6	1	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	7	3	43%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	47	22	47%	9	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	47	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	12	10	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	6	3	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	6	1	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				59	40	68%	28	47%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	47	14	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Lead	mg/kg	49	80	360	39	50	50	100%	2	4%	0	0%	0	0%	3	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				34	9	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				34	7	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	49	26	53%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	6	1	17%	1	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	49	41	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	47	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	49	48	98%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	92	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					29	23	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					29	26	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
PETN	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	47	16	34%	7	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	47	21	45%	7	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	49	26	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	51	32	63%	11	22%	0	0%	0	0%	3	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				41	27	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	49	43	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	47	26	55%	9	19%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	29	26	90%	14	48%	4	14%	2	7%	4	14%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	49	49	100%	0	0%	0	0%	0	0%	48	98%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	50	50	100%	3	6%	0	0%	0	0%	3	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	41	26	63%	0	0%	3	7%	0	0%	2	5%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
ng/kg – nanograms per kilogram

Table A-5 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I18																								
Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC

Rec. - Recreational
Res. - Residential

Table A-6 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	9	1	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					43	31	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					43	30	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					43	26	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					43	27	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					43	26	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					43	37	86%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					43	25	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					43	28	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					43	13	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					43	24	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					43	11	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	50	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					43	11	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					43	10	23%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-6 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDD	ng/kg					43	17	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					43	17	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	17	12	71%	6	35%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		2.1E+07	9	1	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	50	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					23	6	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	17	9	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-6 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Chloro-3-methylphenol	µg/kg		6110000		17000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	50	3	6%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	50	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	9	1	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	51	51	100%	0	0%	0	0%	0	0%	51	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	50	9	18%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	51	15	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	50	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	50	15	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	50	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	41	4	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	51	51	100%	0	0%	51	100%	51	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	51	51	100%	0	0%	0	0%	0	0%	40	78%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	50	17	34%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	50	17	34%	8	16%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	50	24	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	50	16	32%	6	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-6 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(k)fluoranthene	µg/kg		387	939	310000	47	16	34%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	51	51	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	17	3	18%	3	18%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	42	21	50%	5	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	51	21	41%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	42	2	5%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	51	49	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Calcium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	30	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	51	51	100%	0	0%	0	0%	0	0%	51	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	60	42	70%	0	0%	4	7%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	50	26	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	51	51	100%	1	2%	1	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	51	50	98%	0	0%	0	0%	0	0%	15	29%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	50	4	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-6 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Dicamba	µg/kg	1.3	2060000	9610000	1500	16	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	42	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	42	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		42	12	29%	2	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	42	5	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	17	2	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	50	27	54%	13	26%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	50	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	30	29	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	17	2	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				90	68	76%	41	46%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	50	13	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	51	51	100%	1	2%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	51	51	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

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Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				64	5	8%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	17	9	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				46	20	43%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	51	28	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	17	3	18%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					46	46	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	51	48	94%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	50	4	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	51	51	100%	0	0%	0	0%	0	0%	3	6%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				8	6	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	108	6	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					43	35	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					43	25	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					53	53	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

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Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	50	21	42%	9	18%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				51	51	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	50	21	42%	10	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	51	45	88%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	51	43	84%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	17	2	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				51	43	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	53	53	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	41	6	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	50	28	56%	8	16%	2	4%	1	2%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	43	40	93%	16	37%	6	14%	1	2%	5	12%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	51	51	100%	0	0%	0	0%	0	0%	51	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	51	51	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	51	27	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					15	5	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					15	8	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					15	10	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					15	11	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					15	8	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					15	7	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					15	6	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Chlorohexane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	19	3	16%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					15	8	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					15	7	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDD	ng/kg					15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	5	2	40%	1	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	19	4	21%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	5	1	20%	1	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	5	3	60%	1	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	5	2	40%	1	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	19	3	16%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	19	2	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	3	2	67%	2	67%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acrolein	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrylonitrile	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	19	19	100%	0	0%	0	0%	0	0%	19	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	19	6	32%	4	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	19	9	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	16	2	13%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	12	3	25%	1	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	19	19	100%	0	0%	19	100%	19	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	19	19	100%	0	0%	0	0%	0	0%	13	68%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	19	8	42%	0	0%	1	5%	1	5%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	19	9	47%	4	21%	1	5%	1	5%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	19	10	53%	0	0%	1	5%	1	5%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	8	3	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	19	8	42%	6	32%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	17	5	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
bis(2-chloroisopropyl) ether	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	9	5	56%	1	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	19	5	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	19	16	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Calcium	mg/kg					15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	2	2	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690	5660	5600	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	19	19	100%	0	0%	0	0%	0	0%	19	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	19	11	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di isopropyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	19	3	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	5	1	20%	1	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		9	2	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	9	1	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	19	12	63%	8	42%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	19	2	11%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	2	2	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				41	31	76%	23	56%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	19	8	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	5	1	20%	1	20%	0	0%	0	0%	1	20%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				18	6	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	19	10	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					11	11	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	19	16	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	19	3	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					15	12	80%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	19	12	63%	7	37%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	19	11	58%	7	37%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	19	14	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	19	8	42%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				19	15	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	5	1	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butyl ethyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-7 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - J18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
tert-Butylbenzene	µg/kg		1730000		11000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	15	5	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					15	15	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	19	11	58%	7	37%	1	5%	1	5%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	15	14	93%	4	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
trans-1,2-Dichloroethene	µg/kg		85300		240000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	19	19	100%	0	0%	0	0%	0	0%	19	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Acetate	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	19	8	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1,2-Trichloroethane	µg/kg		533		100000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1'-Biphenyl	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1-Dichloroethane	µg/kg		1890		160000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	31	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
1,1-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,4,6,7,8-HPCDD	ng/kg					52	36	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,4,6,7,8-HPCDF	ng/kg					52	35	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,4,7,8,9-HPCDF	ng/kg					52	30	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,4,7,8-HXCDD	ng/kg					52	33	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,4,7,8-HXCDF	ng/kg					52	31	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,6,7,8-HXCDD	ng/kg					52	42	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,6,7,8-HXCDF	ng/kg					52	32	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,7,8,9-HXCDD	ng/kg					52	36	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,7,8,9-HXCDF	ng/kg					52	17	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,7,8-PECDD	ng/kg					52	28	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3,7,8-PECDF	ng/kg					52	33	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,3-Trichloropropane	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	15	2	13%	0	0%	0	0%	0	0%	1	7%	No	No	No	Yes	FALSE	FALSE	###	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2-Dibromoethane	µg/kg		104		62000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2-Dichloroethane	µg/kg		261		160000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2-Dichloropropane	µg/kg		439		160000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,2-Diphenylhydrazine	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	15	2	13%	0	0%	0	0%	0	0%	1	7%	No	No	No	Yes	FALSE	FALSE	###	No
1,3,5-Trinitrobenzene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,3-Dichlorobenzene	µg/kg		915000		110000	67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,3-Dichloropropane	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,3-Dichloropropylene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,4-Dichlorobenzene	µg/kg		1330		28000	67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	77	7	9%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
2,2-Dichloropropane	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,2-Dichlor-Propionic Acid	µg/kg	13	2060000	9610000	130000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,6,7,8-HXCDF	ng/kg					52	28	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,3,4,7,8-PECDF	ng/kg					52	26	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,3,7,8-TCDD	ng/kg					52	20	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,3,7,8-TCDF	ng/kg					52	31	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-D	µg/kg	5.8	686000	2560000	5500	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	15	2	13%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
2,4-Diamino-6-nitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-Dichlorophenol	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-Dimethylphenol	µg/kg		1220000		330000	41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-Dinitrophenol	µg/kg					40	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,4-Dinitrotoluene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,6-Diamino-4-nitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2,6-Dinitrotoluene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Butanone (MEK)	µg/kg		23300000		2.1E+07	28	2	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-butoxyethanol	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Chloronaphthalene	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Chlorophenol	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Chlorotoluene	µg/kg		337000		63000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Hexanone	µg/kg	10	170000	1270000	170000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	77	8	10%	3	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
2-Methylphenol	µg/kg		3060000		17000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Nitroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Nitrophenol	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Nitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-phenoxyethanol	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Phenylbutane	µg/kg		1730000		9800	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
2-Propanol	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
3,3'-Dichlorobenzidine	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
3,5-Dimethylphenol	µg/kg		440000		26000	34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
3-Nitroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
3-Nitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4,4'-DDD	µg/kg	0.5	2460	8260	850	20	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	20	7	35%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	20	15	75%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
4,6-Dinitro-2-methylphenol	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Amino-2,6-Dinitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Bromophenyl-phenylether	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Chloroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Chlorophenyl-phenylether	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Chlorotoluene	µg/kg		310000		64000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Methylphenol	µg/kg		6110000		43000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Nitroaniline	µg/kg		34200		34000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Nitrophenol	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
4-Nitrotoluene	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	82	3	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	81	9	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	29	3	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aldrin	µg/kg	0.2	34.8	117	570	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Alpha-BHC	µg/kg	0.2	219	734	2900	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aluminum	mg/kg	##	75300	354000	160	108	108	100%	0	0%	0	0%	0	0%	108	100%	No	No	No	Yes	FALSE	FALSE	###	No
Aniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	81	15	19%	3	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Antimony	mg/kg	0.9	26.4	123	2	108	48	44%	8	7%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1221	µg/kg	33				69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1232	µg/kg	17				69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1242	µg/kg	17	232	564	430	69	2	3%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1248	µg/kg	17	232	564	64	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1254	µg/kg	17	232	564	390	69	40	58%	18	26%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Aroclor 1260	µg/kg	17	232	564	250	69	19	28%	6	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Aroclor 1262	µg/kg	33				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 1268	µg/kg	33				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 5432	µg/kg	50				53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 5442	µg/kg	50				53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Aroclor 5460	µg/kg	50	232	564	390	53	24	45%	4	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Arsenic	mg/kg	46	0.0658	0.246	31	112	112	100%	0	0%	112	100%	112	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	###	No
AZOBENZENE	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Barium	mg/kg	371	11000	51900	89	111	111	100%	0	0%	0	0%	0	0%	45	41%	No	No	No	Yes	FALSE	FALSE	###	No
Benzene	µg/kg	5	115	1560	730000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzidine	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzo(a)anthracene	µg/kg		387	939	50000	81	24	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(a)pyrene	µg/kg	4.5	38.7	93.9	310000	81	27	33%	16	20%	2	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	###	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	81	34	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzo(e)pyrene	µg/kg		1650000		270000	10	4	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	81	30	37%	18	22%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	80	24	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzoic Acid	µg/kg	660	244000000		45000	36	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Benzyl Alcohol	µg/kg		6110000		45000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Beryllium	mg/kg	2.2	31.2	146	13	108	108	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Beta-BHC	µg/kg	0.2	394	1320	2900	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
bis(2-chloroethoxy)methane	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
bis(2-chloroethyl) ether	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
bis(2-chloroisopropyl) ether	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	74	32	43%	7	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Boron	mg/kg	34	15200	71000	73	108	43	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bromobenzene	µg/kg		236000		43000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bromochloromethane	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bromodichloromethane	µg/kg		195		51000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bromoform	µg/kg		62200		45000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Bromomethane	µg/kg		5160		16000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	73	7	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	111	103	93%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Calcium	mg/kg					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Carbazole	µg/kg		26000		15000	34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Carbon Disulfide	µg/kg		542000		51000	12	1	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Carbon Tetrachloride	µg/kg		71		35000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chlordane (Technical)	µg/kg	7	1690		5600	18	4	22%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Chlordane (Technical)	µg/kg	7	1690	5660	5600	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chlorobenzene	µg/kg		135000		43000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chloroethane	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chloroform	µg/kg		733		190000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chloromethane	µg/kg		45100		16000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chlorotrifluoroethylene	µg/kg					7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Chromium	mg/kg	94	37200	174000	14	108	108	100%	1	1%	0	0%	0	0%	96	89%	No	No	No	Yes	FALSE	FALSE	###	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	138	56	41%	0	0%	2	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	###	No
Chrysene	µg/kg		3870	9390	76000	81	33	41%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	27	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
cis-1,3-Dichloropropene	µg/kg					27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Cobalt	mg/kg	44	22.8	106	190	108	108	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Copper	mg/kg	119	3040	14200	24	111	111	100%	0	0%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	###	No
Cyanide	mg/kg	0.6	45.6	213	1.8	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Cymene	µg/kg		1940000		37000	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Delta-BHC	µg/kg	0.2	328	1100	2600	20	2	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	81	13	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dibenzofuran	µg/kg		54700		12000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dibromochloromethane	µg/kg		7280		59000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dibromomethane	µg/kg		22300		230000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	14	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dichlorodifluoromethane	µg/kg		66200		410000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dieldrin	µg/kg	0.5	36.9	124	580	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Diethylene Glycol	mg/kg		6110			16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	74	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	75	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Di-n-butylphthalate	µg/kg	27		28500000		74	11	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	75	3	4%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Endosulfan I	µg/kg	0.2	412000	1920000	4200	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Endosulfan II	µg/kg	0.5	412000	1920000	4200	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Endosulfan Sulfate	µg/kg	0.5	412000	1920000	4400	20	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Endrin	µg/kg	0.5	20600	96100	79	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Ethanol	µg/kg	700				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Ethylbenzene	µg/kg	5	2310	30100	240000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Ethylene Glycol	mg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	81	31	38%	16	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	81	9	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Fluoride	mg/kg	10	3040	14200	140	39	29	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Formaldehyde	µg/kg	##	12200000	57000	380000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Gamma-BHC (Lindane)	µg/kg	0.2	537	1800	5600	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Heptachlor	µg/kg	0.2	144	484	3600	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Heptachlor Epoxide	µg/kg	0.2	107	360	6.5	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Hexachlorobenzene	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Hexachlorocyclopentadiene	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Hexachloroethane	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				138	114	83%	84	61%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
HMX	µg/kg		3850000		630000	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	81	21	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Iron	mg/kg					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Isophorone	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Isopropylbenzene	µg/kg		1510000		13000	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Lead	mg/kg	49	80	360	39	111	111	100%	2	2%	1	1%	0	0%	2	2%	No	Yes	No	Yes	FALSE	FALSE	###	No
Lithium	mg/kg	91	152	710	87	108	108	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				50	2	4%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				104	4	4%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
m,p-Xylene	µg/kg		428000		4200	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Magnesium	mg/kg					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Manganese	mg/kg	##	6130	29600	920	50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
MCPA	µg/kg	761	34300	160000	610	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
MCPP	µg/kg	377	68600	320000	7400	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
M-Dinitrobenzene	µg/kg		6110		2500	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				144	22	15%	2	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Mercury	mg/kg	0.1	16.8	78.2	1.7	104	80	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Methanol	µg/kg	700				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Methyl Tert-Butyl Ether	µg/kg					15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Methylene Chloride	µg/kg	10	2970	37100	230000	31	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Mirex	µg/kg	0.5	32.8	110	340	20	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Moisture	%					124	124	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Molybdenum	mg/kg	3.2	380	1780	1.3	108	70	65%	1	1%	0	0%	0	0%	6	6%	No	No	No	Yes	FALSE	FALSE	###	No
m-Terphenyl	mg/kg		65		6.7	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Naphthalene	µg/kg	3.6	14600	204000	130000	89	13	15%	4	4%	1	1%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	###	Yes
n-Butylbenzene	µg/kg		845000		180000	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Nickel	mg/kg	132	908	4280	30	108	108	100%	0	0%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	###	No
Nitrate	mg/kg	22				2	2	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Nitrobenzene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Nitroglycerin	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	160	4	3%	2	1%	2	1%	2	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	###	No
N-Nitroso-di-n-propylamine	µg/kg					41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
n-Propylbenzene	µg/kg		3160000		220000	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
OCDD	ng/kg					52	39	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
OCDF	ng/kg					52	35	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
o-Terphenyl	mg/kg	7	65	180	6.7	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
o-Xylene	µg/kg		286000		4300	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Perchlorate	µg/kg	1.6	53300	249000	7700	44	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
PETN	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
pH	pH					122	122	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	81	23	28%	12	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Phenol	µg/kg	170	18300000	85500000	51000	41	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Phosphorus	mg/kg					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Potassium	mg/kg	##				117	117	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Propylene Glycol	mg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
p-Terphenyl	mg/kg		65		5.4	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	81	32	40%	18	22%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
RDX	µg/kg	300	5940	24500	1500	2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Selenium	mg/kg	1	380	1780	1.5	111	45	41%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Silver	mg/kg	0.2	230	1070	29	108	66	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Silvex (2,4,5-TP)	µg/kg	0.6	549000	2560000	1800	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Sodium	mg/kg	##				122	69	57%	7	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	###	No
Strontium	mg/kg	163	45600	213000	1750	50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Styrene	µg/kg		11400000		420000	27	2	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
tert-Butylbenzene	µg/kg		1730000		11000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Tetrachloroethene	µg/kg	5	416	3520	11000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Tetralin	µg/kg		8290		290000	68	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Tetryl	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	108	105	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Tin	mg/kg		45600	213000	77	50	6	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Titanium	mg/kg					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Toluene	µg/kg	5	3740000	29300000	590000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Total TEQ_BAP	µg/kg	4.5	38.7	93.9	310000	81	81	100%	17	21%	4	5%	1	1%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	###	Yes
Total TEQ_Dioxin	ng/kg	0.9	4.81	18	5	52	45	87%	19	37%	6	12%	1	2%	6	12%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
trans-1,3-Dichloropropene	µg/kg					27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Trichloroethene	µg/kg	5	797	10100	797	31	1	3%	1	3%	1	3%	0	0%	1	3%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Trichlorofluoromethane	µg/kg		530000		850000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Vanadium	mg/kg	175	188	878	16	108	108	100%	0	0%	0	0%	0	0%	108	100%	No	No	No	Yes	FALSE	FALSE	###	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Zinc	mg/kg	215	22800	107000	320	111	111	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No
Zirconium	mg/kg	19	6.09	28.4	8	105	85	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	###	No

Table A-8 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC

Notes:
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
ng/kg – nanograms per kilogram
Rec. - Recreational
Res. - Residential

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
% Solids	%					28	28	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	29	4	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					48	41	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					48	38	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					48	32	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					48	27	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					48	33	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					48	28	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					48	31	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					48	14	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					48	26	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					48	25	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	24	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Chlorohexane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	71	15	21%	10	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					48	25	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					48	26	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					48	16	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					48	33	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	19	3	16%	2	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	29	2	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	74	15	20%	11	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	19	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	18	3	17%	2	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	19	8	42%	3	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	79	12	15%	7	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	79	14	18%	7	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	29	2	7%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acrolein	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrylonitrile	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	84	84	100%	0	0%	0	0%	0	0%	84	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	79	24	30%	13	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	68	35	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	80	1	1%	1	1%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	81	32	40%	23	28%	6	7%	2	2%	3	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	81	24	30%	16	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				44	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				44	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				71	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				71	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	71	14	20%	7	10%	1	1%	1	1%	1	1%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Arsenic	mg/kg	46	0.0658	0.246	31	86	79	92%	0	0%	79	92%	79	92%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	86	86	100%	0	0%	0	0%	0	0%	55	64%	No	No	No	Yes	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzene	µg/kg	5	115	1560	730000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					42	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	77	31	40%	0	0%	1	1%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	79	30	38%	19	24%	10	13%	7	9%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	79	33	42%	0	0%	2	3%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	6	3	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	79	29	37%	20	25%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	74	21	28%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	86	78	91%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	18	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	52	16	31%	7	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	82	17	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromide	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	47	9	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	83	76	92%	15	18%	0	0%	0	0%	15	18%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	16	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	8	3	38%	2	25%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690	5660	5600	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloride	mg/kg					4	1	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	86	86	100%	0	0%	0	0%	0	0%	78	91%	No	No	No	Yes	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	70	48	69%	4	6%	8	11%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Chrysene	µg/kg		3870	9390	76000	79	38	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	86	86	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	83	83	100%	1	1%	0	0%	0	0%	11	13%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	18	1	6%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di isopropyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	79	16	20%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	43	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	19	3	16%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichloroprop	µg/kg	2.4	686000	3200000	3900	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			35	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	52	8	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	47	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		52	20	38%	4	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		13	3	23%	2	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	47	7	15%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	18	1	6%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				10	1	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					35	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	79	38	48%	21	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	79	11	14%	4	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	23	23	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Heptachlor	µg/kg	0.24	144	484	3600	19	2	11%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	18	1	6%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				142	87	61%	67	47%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	79	28	35%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	86	85	99%	7	8%	5	6%	0	0%	9	10%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				83	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				101	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	41	41	100%	1	2%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	18	2	11%	2	11%	0	0%	0	0%	2	11%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	19	2	11%	2	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				83	18	22%	6	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	86	51	59%	6	7%	1	1%	0	0%	1	1%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Methanol	µg/kg	700				10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Mercury	ug/kg	0.05	7610	35000	820	3	1	33%	1	33%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					83	83	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	86	77	90%	1	1%	0	0%	0	0%	4	5%	No	No	No	Yes	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
m-Terphenyl	mg/kg		65		6.7	40	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	79	15	19%	8	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	86	86	100%	0	0%	0	0%	0	0%	9	10%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				10	10	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrite-NO2	mg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	176	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					48	41	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					48	37	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Orthophosphate-PO4	mg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	40	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	43	2	5%	2	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					81	81	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	79	33	42%	22	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	43	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				75	75	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	39	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	79	34	43%	22	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	86	60	70%	5	6%	0	0%	0	0%	1	1%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Silver	mg/kg	0.2	230	1070	29	87	54	62%	25	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	19	3	16%	2	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				75	58	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sulfate	mg/kg					3	3	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-9 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H19

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res.RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
tert-Butyl ethyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	86	79	92%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	41	16	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					41	41	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	29	2	7%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	79	79	100%	21	27%	10	13%	7	9%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	48	47	98%	28	58%	18	38%	9	19%	16	33%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Triethylene Glycol	mg/kg		2750			25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	86	86	100%	0	0%	0	0%	0	0%	85	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Acetate	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	29	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Xylene (Total)	µg/kg		428000		4200	3	1	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	86	86	100%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	72	54	75%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					123	85	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					123	74	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					123	41	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					123	65	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					123	49	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					123	89	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					123	58	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					123	87	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					123	48	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					123	49	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					123	55	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	86	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	87	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Chlorohexane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	145	37	26%	10	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,6,7,8-HXCDF	ng/kg					123	38	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					123	38	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					123	29	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					123	59	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	17	5	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	17	5	29%	5	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		2.1E+07	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	147	40	27%	13	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	14	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	13	2	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLs	% Exceeds Rec. RBLs	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,6-Dinitro-2-methylphenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	147	28	19%	11	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	147	16	11%	2	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	39	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrolein	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrylonitrile	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	14	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	14	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	146	146	100%	0	0%	0	0%	0	0%	146	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	147	40	27%	25	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	139	67	48%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	144	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				144	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				144	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	143	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	143	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	144	46	32%	32	22%	4	3%	2	1%	2	1%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	143	36	25%	19	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				137	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				137	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				137	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				137	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	138	32	23%	6	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	143	142	99%	0	0%	142	99%	142	99%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	147	147	100%	0	0%	0	0%	0	0%	125	85%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLs	% Exceeds Rec. RBLs	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzidine	µg/kg					47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	147	53	36%	0	0%	3	2%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	147	55	37%	35	24%	11	7%	5	3%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	147	60	41%	0	0%	2	1%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	11	4	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	147	53	36%	37	25%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	147	41	28%	0	0%	1	1%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	48	1	2%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	143	142	99%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	14	4	29%	3	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	60	31	52%	8	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	141	45	32%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromide	mg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	60	6	10%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	143	128	90%	9	6%	0	0%	0	0%	8	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					132	132	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	45	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloride	mg/kg					7	7	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	144	144	100%	0	0%	0	0%	0	0%	142	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	196	116	59%	2	1%	8	4%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	147	66	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
cis-1,3-Dichloropropene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	143	143	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	143	143	100%	1	1%	0	0%	0	0%	9	6%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	14	4	29%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di isopropyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	147	30	20%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	48	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	17	4	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	17	2	12%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	60	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		60	8	13%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	60	4	7%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	13	1	8%	1	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	39	4	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	147	71	48%	42	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	147	19	13%	8	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	52	51	98%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	69	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	14	2	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	13	3	23%	2	15%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	13	1	8%	1	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	86	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	86	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLs	% Exceeds Rec. RBLs	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Hexachlorocyclopentadiene	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				214	104	49%	61	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	147	45	31%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					132	132	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	143	142	99%	10	7%	3	2%	0	0%	11	8%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	140	140	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				117	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				174	4	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	38	5	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					132	132	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	132	132	100%	1	1%	0	0%	0	0%	2	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	17	8	47%	1	6%	0	0%	0	0%	2	12%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	17	2	12%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	12	2	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				117	21	18%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	143	97	68%	6	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	39	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	143	116	81%	1	1%	0	0%	0	0%	9	6%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	147	26	18%	12	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	143	143	100%	0	0%	0	0%	0	0%	6	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				19	17	89%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrite-NO2	mg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Nitrobenzene	µg/kg					60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	318	18	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					123	88	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					123	66	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Orthophosphate	mg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	91	22	24%	2	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					144	144	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	147	61	41%	41	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					130	130	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				142	142	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	147	59	40%	40	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	141	91	65%	18	13%	0	0%	0	0%	6	4%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Silver	mg/kg	0.2	230	1070	29	141	132	94%	10	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				142	124	87%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	130	130	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	38	4	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sulfate	mg/kg					6	6	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butyl ethyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	141	138	98%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Table A-10 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N13

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Tin	mg/kg		45600	213000	77	130	66	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					130	130	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ BAP	µg/kg	4.47	38.7	93.9	310000	147	147	100%	38	26%	15	10%	8	5%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ Dioxin	ng/kg	0.912	4.81	18	5	123	99	80%	34	28%	12	10%	8	7%	12	10%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	143	143	100%	0	0%	0	0%	0	0%	142	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Acetate	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	143	143	100%	8	6%	0	0%	0	0%	5	3%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	140	103	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 010

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					57	25	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					57	20	35%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					57	16	28%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					57	29	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					57	23	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					57	26	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					57	19	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					57	23	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					57	27	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					57	21	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					57	20	35%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	78	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	79	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	79	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	79	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	57	3	5%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					57	19	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					57	18	32%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 010

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDD	ng/kg					57	22	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					57	27	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	19	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	19	4	21%	4	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					84	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					84	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	58	3	5%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	21	15	71%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	22	18	82%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - O10

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Chloro-3-methylphenol	µg/kg		6110000		17000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	58	5	9%	5	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	58	2	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	26	13	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	57	57	100%	0	0%	0	0%	0	0%	57	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	58	12	21%	10	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	57	47	82%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	57	5	9%	1	2%	1	2%	1	2%	1	2%	No	Yes	Yes	Yes	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	57	18	32%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	57	18	32%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	57	57	100%	0	0%	57	100%	57	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	57	57	100%	1	2%	0	0%	0	0%	54	95%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	58	19	33%	0	0%	1	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	58	22	38%	16	28%	8	14%	4	7%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	58	26	45%	0	0%	1	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	58	17	29%	12	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - O10

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(k)fluoranthene	µg/kg		387	939	310000	58	19	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	20	3	15%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	59	31	53%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	57	41	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	58	4	7%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	57	57	100%	7	12%	0	0%	0	0%	1	2%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	53	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	21	10	48%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	57	57	100%	0	0%	0	0%	0	0%	57	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	104	60	58%	0	0%	2	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	58	28	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	57	57	100%	0	0%	0	0%	0	0%	4	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	58	11	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - O10

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Dibromomethane	µg/kg		22300		230000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	19	3	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	19	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	21	2	10%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	58	1	2%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		58	3	5%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	58	3	5%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	21	2	10%	2	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	21	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	21	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	58	23	40%	16	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	58	6	10%	5	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	52	50	96%	13	25%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	20	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	21	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	20	3	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	78	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	78	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				43	25	58%	18	42%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	58	14	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	57	57	100%	0	0%	0	0%	0	0%	2	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 010

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Lithium	mg/kg	91	152	710	87	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				22	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				34	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	57	57	100%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	19	13	68%	9	47%	0	0%	0	0%	9	47%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	19	2	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				22	10	45%	2	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	57	31	54%	9	16%	1	2%	0	0%	6	11%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Methanol	µg/kg	700				16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	26	5	19%	5	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	21	2	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					61	61	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	57	52	91%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	58	8	14%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	57	57	100%	0	0%	0	0%	0	0%	10	18%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				16	16	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					84	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	146	14	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					57	41	72%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					57	21	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-11 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 010

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
PETN	µg/kg					30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	58	21	36%	16	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	58	23	40%	16	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	31	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	57	47	82%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	57	55	96%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	19	5	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	26	7	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	58	58	100%	16	28%	10	17%	4	7%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	57	46	81%	20	35%	11	19%	2	4%	11	19%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	57	57	100%	0	0%	0	0%	0	0%	57	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	57	57	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	57	53	93%	0	0%	9	16%	0	0%	3	5%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					33	24	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					33	25	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					33	16	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					33	17	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					33	22	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					33	26	79%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					33	20	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					33	22	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					33	20	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					33	20	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					33	28	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	45	5	11%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					33	15	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,7,8-PECDF	ng/kg					33	16	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					33	12	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					33	28	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	13	1	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-butoxyethanol	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	45	8	18%	3	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-phenoxyethanol	µg/kg					38	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	15	4	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	15	9	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	46	5	11%	4	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	46	3	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	46	46	100%	0	0%	0	0%	0	0%	46	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	46	9	20%	6	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	44	35	80%	5	11%	0	0%	0	0%	2	5%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	45	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	45	9	20%	4	9%	1	2%	1	2%	1	2%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	45	7	16%	3	7%	1	2%	1	2%	1	2%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1262	µg/kg	33				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	35	8	23%	1	3%	1	3%	1	3%	1	3%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Arsenic	mg/kg	46	0.0658	0.246	31	46	46	100%	0	0%	46	100%	46	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	46	46	100%	0	0%	0	0%	0	0%	7	15%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	46	20	43%	0	0%	1	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	46	15	33%	8	17%	4	9%	2	4%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	46	19	41%	0	0%	1	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	46	19	41%	13	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	45	12	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	46	45	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	34	18	53%	4	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	46	14	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	31	6	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	46	42	91%	4	9%	0	0%	0	0%	3	7%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	26	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	4	2	50%	1	25%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690	5660	5600	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	46	46	100%	0	0%	0	0%	0	0%	27	59%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	52	10	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	46	24	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	46	46	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	46	46	100%	1	2%	0	0%	0	0%	2	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	27	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Cymene	µg/kg		1940000		37000	5	2	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	46	9	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	15	1	7%	1	7%	1	7%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Diethylene Glycol	mg/kg		6110			24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	228000000	23000	34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	228000000	45000	33	2	6%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		34	4	12%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	33	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	46	21	46%	11	24%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	46	3	7%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	26	17	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	25	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				101	99	98%	80	79%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	46	9	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	46	45	98%	7	15%	4	9%	2	4%	8	17%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	36	36	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				46	9	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				60	13	22%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				46	22	48%	13	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	46	28	61%	13	28%	1	2%	0	0%	4	9%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Methanol	µg/kg	700				24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					39	39	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	46	37	80%	0	0%	0	0%	0	0%	3	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	48	14	29%	5	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	46	46	100%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				25	22	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	124	2	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					33	27	82%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
OCDF	ng/kg					33	25	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	28	2	7%	2	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					37	37	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	46	16	35%	8	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				36	36	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	27	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	46	22	48%	12	26%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	46	24	52%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	46	34	74%	11	24%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	13	1	8%	1	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				36	29	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	46	44	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	34	4	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					34	34	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	46	29	63%	10	22%	4	9%	3	7%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	33	32	97%	12	36%	2	6%	1	3%	2	6%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	46	46	100%	0	0%	0	0%	0	0%	46	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	46	46	100%	2	4%	0	0%	0	0%	1	2%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	36	11	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-12 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - F18

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	17	3	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					41	37	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					41	37	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					41	29	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					41	34	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					41	31	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					41	40	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					41	33	80%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					41	34	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					41	22	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					41	30	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					41	27	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	16	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	39	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	40	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	40	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	40	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	52	9	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					41	28	68%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					41	30	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					41	26	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDF	ng/kg					41	27	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	15	5	33%	3	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	17	4	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	53	10	19%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					20	2	10%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	15	10	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	15	11	73%	2	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Bromophenyl-phenylether	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	53	4	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	53	6	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	311000000	230000	17	1	6%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	54	54	100%	0	0%	0	0%	0	0%	54	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	53	14	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	48	23	48%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	50	13	26%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	50	24	48%	5	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				28	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				28	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	30	13	43%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	54	54	100%	0	0%	54	100%	54	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	54	54	100%	0	0%	0	0%	0	0%	17	31%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					22	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	53	25	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	52	32	62%	4	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(b)fluoranthene	µg/kg		387	939	150000	52	33	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	52	24	46%	7	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	43	19	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	54	54	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	47	36	77%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	54	18	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	47	10	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	54	49	91%	5	9%	0	0%	0	0%	4	7%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					30	30	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	15	4	27%	2	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	54	54	100%	1	2%	0	0%	0	0%	37	69%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	46	26	57%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	53	40	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	54	54	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	54	54	100%	0	0%	0	0%	0	0%	2	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	16	6	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	15	4	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	52	14	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Dibenzofuran	µg/kg		54700		12000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	14	4	29%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	15	3	20%	2	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	489000000	2280000000	23000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	489000000	2280000000	45000	47	3	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		47	13	28%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	47	7	15%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	15	1	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				20	1	5%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	53	36	68%	10	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	53	15	28%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	23	14	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	16	3	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	15	4	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				80	75	94%	56	70%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	52	24	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					30	30	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Isophorone	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	54	54	100%	1	2%	0	0%	0	0%	1	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	52	52	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				49	9	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				57	8	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					30	30	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	30	30	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	15	2	13%	1	7%	0	0%	0	0%	2	13%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	15	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				49	30	61%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	57	49	86%	5	9%	0	0%	0	0%	1	2%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Methanol	µg/kg	700				20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					61	60	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	54	52	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	53	24	45%	3	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	54	53	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				16	14	88%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	136	2	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
OCDD	ng/kg					41	38	93%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					41	37	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	31	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					50	50	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	53	31	58%	10	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					28	28	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				54	54	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	32	2	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	53	33	62%	7	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	54	34	63%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	54	41	76%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	15	4	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				54	35	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	28	28	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	15	1	7%	1	7%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	42	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	54	52	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	28	4	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					28	28	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	17	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	50	44	88%	8	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	41	41	100%	25	61%	13	32%	6	15%	12	29%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	54	54	100%	0	0%	0	0%	0	0%	54	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-13 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - G17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Xylene (Total)	µg/kg		428000		4200	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	54	54	100%	2	4%	0	0%	0	0%	2	4%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Zirconium	mg/kg	19	6.09	28.4	8	52	36	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
% Solids	%					6	6	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					20	17	85%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					20	16	80%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					20	8	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					20	14	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					20	11	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					20	18	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					20	13	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					20	18	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					20	8	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					20	14	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					20	13	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	26	5	19%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					20	10	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					20	13	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,7,8-TCDD	ng/kg					20	9	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					20	13	65%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	8	2	25%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	26	6	23%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	8	5	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Bromophenyl-phenylether	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	26	4	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	26	6	23%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	29	29	100%	0	0%	0	0%	0	0%	29	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	26	7	27%	3	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	22	16	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	32	4	13%	1	3%	1	3%	1	3%	1	3%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	32	8	25%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	26	6	23%	1	4%	1	4%	1	4%	1	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Arsenic	mg/kg	46	0.0658	0.246	31	29	29	100%	0	0%	29	100%	29	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	29	29	100%	0	0%	0	0%	0	0%	15	52%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	26	10	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	26	10	38%	2	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(b)fluoranthene	µg/kg		387	939	150000	26	13	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	26	10	38%	3	12%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(k)fluoranthene	µg/kg		387	939	310000	24	7	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	29	29	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	19	14	74%	4	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	29	11	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	19	4	21%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	29	26	90%	3	10%	0	0%	0	0%	2	7%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					21	21	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	8	3	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	29	29	100%	0	0%	0	0%	0	0%	17	59%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	26	20	77%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	26	19	73%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	29	29	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	29	29	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	26	4	15%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Dibromomethane	µg/kg		22300		230000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichloroprop	µg/kg	2.4	686000	3200000	3900	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		19	12	63%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	19	2	11%	2	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	26	17	65%	7	27%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	27	6	22%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	13	7	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	8	3	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				46	42	91%	35	76%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	26	11	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					21	21	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	29	29	100%	0	0%	0	0%	0	0%	2	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	26	26	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				27	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					21	21	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	21	21	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				23	9	39%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	32	24	75%	5	16%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	29	27	93%	0	0%	0	0%	0	0%	1	3%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	26	8	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	29	28	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	54	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					20	18	90%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					20	15	75%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Perchlorate	µg/kg	1.63	53300	249000	7700	13	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					27	27	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	26	12	46%	6	23%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					20	20	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				27	27	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					14	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	26	15	58%	6	23%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	29	21	72%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	31	19	61%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				27	22	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	20	20	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	29	28	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	20	7	35%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					20	20	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	26	21	81%	5	19%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	20	19	95%	10	50%	4	20%	1	5%	4	20%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Triethylene Glycol	mg/kg		2750			5	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	29	29	100%	0	0%	0	0%	0	0%	27	93%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	29	29	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	26	18	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per

Table A-14 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - H17

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC

µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					58	31	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					58	29	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					58	31	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					58	32	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					58	33	57%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					58	39	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					58	35	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					58	33	57%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					58	29	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					58	27	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					58	30	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropylene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	79	5	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					58	31	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,7,8-PECDF	ng/kg					58	26	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					58	25	43%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					58	35	60%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	19	3	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	18	5	28%	5	28%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	10	3	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-butoxyethanol	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	79	9	11%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-phenoxyethanol	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					26	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	23	17	74%	2	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	23	17	74%	2	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	1.5E+07	11000	80	4	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	1.5E+07	3300	80	4	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.1E+08	230000	9	1	11%	1	11%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	110	110	100%	0	0%	0	0%	0	0%	110	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	7.7E+07	22000	80	9	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	110	31	28%	4	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1016	µg/kg	17	3860	16100	1200	76	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				76	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				76	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	76	3	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	76	1	1%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	76	30	39%	11	14%	4	5%	2	3%	3	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	76	25	33%	6	8%	1	1%	0	0%	1	1%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
Aroclor 1262	µg/kg	33				58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	58	27	47%	11	19%	6	10%	2	3%	3	5%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Arsenic	mg/kg	46	0.0658	0.246	31	110	110	100%	0	0%	110	100%	110	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	110	110	100%	0	0%	0	0%	0	0%	49	45%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	80	13	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	80	17	21%	6	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(b)fluoranthene	µg/kg		387	939	150000	80	27	34%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	9	2	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	80	16	20%	8	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	80	18	23%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	110	110	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	80	40	50%	18	23%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	110	51	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	80	5	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	110	103	94%	3	3%	0	0%	0	0%	3	3%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	49	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	24	11	46%	3	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	110	110	100%	1	1%	0	0%	0	0%	99	90%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	166	76	46%	2	1%	4	2%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	80	30	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	110	110	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	110	110	100%	0	0%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Cymene	µg/kg		1940000		37000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	80	3	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	18	3	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	22	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.3E+08	23000	80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.3E+08	45000	80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		2.9E+07		80	5	6%	2	3%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	79	11	14%	8	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	21	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	22	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	22	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	23	3	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	23	2	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	1E+07	880000	80	27	34%	16	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	1E+07	8900	80	4	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	55	38	69%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	23	2	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				122	95	78%	75	61%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
HMX	µg/kg		3850000		630000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	80	11	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	110	110	100%	0	0%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	110	110	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				103	1	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	11	1	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					58	55	95%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	18	1	6%	1	6%	0	0%	0	0%	1	6%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	18	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				137	11	8%	2	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	111	81	73%	4	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				26	3	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	22	2	9%	1	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					119	117	98%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	110	66	60%	2	2%	0	0%	0	0%	7	6%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	88	18	20%	7	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	110	110	100%	1	1%	0	0%	0	0%	4	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				4	4	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	168	2	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	50	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					58	38	66%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					58	33	57%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	55	2	4%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					113	113	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	7.7E+07	13000	80	20	25%	10	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	8.6E+07	51000	51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	###				112	112	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	80	25	31%	16	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	110	54	49%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	110	69	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	19	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				112	71	63%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	23	2	9%	2	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetralin	µg/kg		8290		290000	98	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	110	110	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	2.9E+07	590000	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	79	31	39%	10	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	58	49	84%	22	38%	6	10%	1	2%	6	10%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-15 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - I14

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Trichlorofluoromethane	µg/kg		530000		850000	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	110	110	100%	0	0%	0	0%	0	0%	110	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	110	110	100%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	107	76	71%	0	0%	4	4%	0	0%	2	2%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
% Solids	%					19	19	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1'-Biphenyl	µg/kg					46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	23	2	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-DIMETHYLHYDRAZINE	µg/kg		7800		1700	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					55	15	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					55	13	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					55	9	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					55	11	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					55	10	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					55	16	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					55	13	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					55	15	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					55	13	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					55	32	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					55	16	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
1,4-Dioxane	µg/kg	10	19300	53200	4600	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Chlorohexane	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	92	5	5%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					55	12	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					55	10	18%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					55	12	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					55	24	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	8	2	25%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	92	4	4%	3	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
2-Propanol	µg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	95	9	9%	8	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	95	5	5%	2	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	23	3	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrolein	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrylonitrile	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	84	84	100%	0	0%	0	0%	0	0%	84	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	95	13	14%	9	9%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	84	66	79%	4	5%	0	0%	0	0%	3	4%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	81	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				81	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				81	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	81	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	81	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
Aroclor 1254	µg/kg	17	232	564	390	81	5	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	81	11	14%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				80	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	80	9	11%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	84	84	100%	0	0%	84	100%	84	100%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
AZOBENZENE	µg/kg					46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	89	89	100%	2	2%	0	0%	0	0%	68	76%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	95	27	28%	0	0%	2	2%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	95	30	32%	20	21%	10	11%	5	5%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	95	39	41%	0	0%	2	2%	1	1%	0	0%	No	Yes	Yes	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	46	10	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	95	28	29%	22	23%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	95	17	18%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	84	83	99%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	46	30	65%	6	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	84	33	39%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	46	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	84	80	95%	4	5%	0	0%	0	0%	2	2%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSLs	% Exceeds Rec. RBSLs	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
Carbon Tetrachloride	µg/kg		71		35000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	84	84	100%	0	0%	0	0%	0	0%	83	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	96	40	42%	4	4%	6	6%	4	4%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Chrysene	µg/kg		3870	9390	76000	95	35	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	84	84	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	84	84	100%	0	0%	0	0%	0	0%	6	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Di isopropyl Ether	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	95	10	11%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		46	1	2%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		3	1	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	46	5	11%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	95	33	35%	21	22%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	95	10	11%	8	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	35	35	100%	9	26%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	8	1	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				81	17	21%	14	17%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hydrazine	µg/kg		173			2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	95	16	17%	0	0%	1	1%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	89	89	100%	4	4%	3	3%	2	2%	4	4%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	81	81	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				44	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				67	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	72	72	100%	2	3%	0	0%	0	0%	3	4%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
MCPA	µg/kg	761	34300	160000	610	8	4	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	8	2	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
M-Dinitrobenzene	µg/kg		6110		2500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				44	2	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	84	23	27%	1	1%	0	0%	0	0%	1	1%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				34	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	23	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylhydrazine	µg/kg		1.24		1700	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	8	1	13%	1	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					64	64	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	84	82	98%	0	0%	0	0%	0	0%	6	7%	No	No	No	Yes	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	95	2	2%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	84	84	100%	0	0%	0	0%	0	0%	3	4%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Nitrate	mg/kg	22.3				1	1	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	192	2	1%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					55	26	47%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					55	13	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	43	2	5%	2	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					82	82	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	95	34	36%	19	20%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	33	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	14400				81	81	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								
Propylene Glycol	mg/kg					34	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	95	34	36%	20	21%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	87	38	44%	1	1%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	84	52	62%	3	4%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				81	78	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	8	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butyl ethyl ether	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	84	80	95%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	72	4	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					72	72	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	23	4	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	95	95	100%	22	23%	11	12%	6	6%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	55	33	60%	6	11%	1	2%	0	0%	1	2%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	84	84	100%	0	0%	0	0%	0	0%	83	99%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Acetate	µg/kg					3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	23	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	84	84	100%	2	2%	0	0%	0	0%	2	2%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	81	43	53%	0	0%	5	6%	0	0%	0	0%	No	Yes	No	No	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per

Table A-16 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - N10

	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Chemical Name																								

Rec. - Recreational
Res. - Residential

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - O6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
% Solids	%					16	16	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1,2-Trichloroethane	µg/kg		533		100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1'-Biphenyl	µg/kg					6	1	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1-Dichloroethane	µg/kg		1890		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,1-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,4,6,7,8-HPCDD	ng/kg					63	33	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,4,6,7,8-HPCDF	ng/kg					63	33	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,4,7,8,9-HPCDF	ng/kg					63	25	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,4,7,8-HXCDD	ng/kg					63	23	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,4,7,8-HXCDF	ng/kg					63	29	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,6,7,8-HXCDD	ng/kg					63	37	59%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,6,7,8-HXCDF	ng/kg					63	25	40%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,7,8,9-HXCDD	ng/kg					63	33	52%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,7,8,9-HXCDF	ng/kg					63	24	38%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,7,8-PECDD	ng/kg					63	32	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3,7,8-PECDF	ng/kg					63	27	43%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,3-Trichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Dibromoethane	µg/kg		104		62000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Dichloroethane	µg/kg		261		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Dichloropropane	µg/kg		439		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,2-Diphenylhydrazine	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,3,5-Trinitrobenzene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,3-Dichlorobenzene	µg/kg		915000		110000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,3-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,4-Dichlorobenzene	µg/kg		1330		28000	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	12	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1-Chlorohexane	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	62	3	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,2-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,3,4,6,7,8-HXCDF	ng/kg					63	17	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,3,4,7,8-PECDF	ng/kg					63	29	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,3,7,8-TCDD	ng/kg					63	17	27%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,3,7,8-TCDF	ng/kg					63	34	54%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-D	µg/kg	5.8	686000	2560000	5500	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-Diamino-6-nitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-Dichlorophenol	µg/kg					32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-Dimethylphenol	µg/kg		1220000		330000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-Dinitrophenol	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,4-Dinitrotoluene	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,6-Diamino-4-nitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,6-DICHLOROPHENOL	µg/kg					11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2,6-Dinitrotoluene	µg/kg					48	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Butanone (MEK)	µg/kg		23300000		21100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Chloronaphthalene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Chlorophenol	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Chlorotoluene	µg/kg		337000		63000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Hexanone	µg/kg	10	170000	1270000	170000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	64	5	8%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Methylphenol	µg/kg		3060000		17000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Nitroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Nitrophenol	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Nitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Phenylbutane	µg/kg		1730000		9800	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
2-Propanol	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
3,3'-Dichlorobenzidine	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
3,5-Dimethylphenol	µg/kg		440000		26000	30	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
3-Nitroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
3-Nitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	3	2	67%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4,6-Dinitro-2-methylphenol	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Amino-2,6-Dinitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Bromophenyl-phenylether	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Chloroaniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Chlorophenyl-phenylether	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Chlorotoluene	µg/kg		310000		64000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Methylphenol	µg/kg		6110000		43000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Nitroaniline	µg/kg		34200		34000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Nitrophenol	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
4-Nitrotoluene	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Acenaphthene	µg/kg	2.5	3230000	1.5E+07	11000	64	2	3%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Acenaphthylene	µg/kg	2.5	2980000	1.5E+07	3300	64	3	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Acetone	µg/kg	20	60100000	3.1E+08	230000	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Acrolein	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Acrylonitrile	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aldrin	µg/kg	0.24	34.8	117	570	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Alpha-BHC	µg/kg	0.24	219	734	2900	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aluminum	mg/kg	58600	75300	354000	160	69	69	100%	0	0%	0	0%	0	0%	69	100%	No	No	No	Yes	###	FALSE	###	No
Aniline	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Anthracene	µg/kg	2.5	16400000	7.7E+07	22000	64	14	22%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Antimony	mg/kg	0.86	26.4	123	2	63	28	44%	2	3%	0	0%	0	0%	2	3%	Yes	No	No	Yes	###	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 1221	µg/kg	33				65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 1232	µg/kg	17				65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 1242	µg/kg	17	232	564	430	65	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 1248	µg/kg	17	232	564	64	65	2	3%	1	2%	1	2%	1	2%	1	2%	No	Yes	Yes	Yes	###	FALSE	###	No
Aroclor 1254	µg/kg	17	232	564	390	65	20	31%	10	15%	1	2%	1	2%	1	2%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1260	µg/kg	17	232	564	250	65	10	15%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Aroclor 1262	µg/kg	33				52	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 1268	µg/kg	33				52	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 5432	µg/kg	50				51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 5442	µg/kg	50				51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Aroclor 5460	µg/kg	50	232	564	390	51	7	14%	1	2%	1	2%	1	2%	1	2%	No	Yes	Yes	Yes	###	FALSE	###	No
Arsenic	mg/kg	46	0.0658	0.246	31	63	62	98%	0	0%	62	98%	62	98%	0	0%	No	Yes	Yes	No	###	FALSE	###	No
AZOBENZENE	µg/kg					2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Barium	mg/kg	371	11000	51900	89	62	62	100%	0	0%	0	0%	0	0%	58	94%	No	No	No	Yes	###	FALSE	###	No
Benzene	µg/kg	5	115	1560	730000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzidine	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzo(a)anthracene	µg/kg		387	939	50000	64	21	33%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	64	20	31%	8	13%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	###	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	64	26	41%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzo(e)pyrene	µg/kg		1650000		270000	30	2	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	64	19	30%	9	14%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	64	20	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzoic Acid	µg/kg	660	244000000		45000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Benzyl Alcohol	µg/kg		6110000		45000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Beryllium	mg/kg	2.2	31.2	146	13	62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Beta-BHC	µg/kg	0.23	394	1320	2900	3	1	33%	1	33%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
bis(2-chloroethoxy)methane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
bis(2-chloroethyl) ether	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
bis(2-chloroisopropyl) ether	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	64	19	30%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Boron	mg/kg	34	15200	71000	73	60	50	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bromobenzene	µg/kg		236000		43000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bromochloromethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bromodichloromethane	µg/kg		195		51000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bromoform	µg/kg		62200		45000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Bromomethane	µg/kg		5160		16000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	61	3	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	62	50	81%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Calcium	mg/kg					56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Carbazole	µg/kg		26000		15000	30	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Carbon Disulfide	µg/kg		542000		51000	4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Carbon Tetrachloride	µg/kg		71		35000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chlordane (Technical)	µg/kg	7	1690		5600	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chlorobenzene	µg/kg		135000		43000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chloroethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chloroform	µg/kg		733		190000	16	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chloromethane	µg/kg		45100		16000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chlorotrifluoroethylene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chromium	mg/kg	94	37200	174000	14	62	62	100%	0	0%	0	0%	0	0%	62	100%	No	No	No	Yes	###	FALSE	###	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	54	34	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Chrysene	µg/kg		3870	9390	76000	64	29	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
cis-1,3-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Cobalt	mg/kg	44	22.8	106	190	62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Copper	mg/kg	119	3040	14200	24	62	62	100%	0	0%	0	0%	0	0%	8	13%	No	No	No	Yes	###	FALSE	###	No
Cyanide	mg/kg	0.6	45.6	213	1.8	20	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Cymene	µg/kg		1940000		37000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Delta-BHC	µg/kg	0.22	328	1100	2600	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Di isopropyl Ether	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	64	5	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dibenzofuran	µg/kg		54700		12000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dibromochloromethane	µg/kg		7280		59000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dibromomethane	µg/kg		22300		230000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dichlorodifluoromethane	µg/kg		66200		410000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dichloroprop	µg/kg	2.4	686000	3200000	3900	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dieldrin	µg/kg	0.48	36.9	124	580	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Diethylene Glycol	mg/kg		6110			17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Diethylphthalate	µg/kg	27	48900000	2.3E+08	23000	64	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dimethylphthalate	µg/kg	27	48900000	2.3E+08	45000	62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Di-n-butylphthalate	µg/kg	27		2.9E+07		64	8	13%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	61	7	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endrin	µg/kg	0.48	20600	96100	79	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Ethanol	µg/kg	700				17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Ethylbenzene	µg/kg	5	2310	30100	240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Ethylene Glycol	mg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Fluoranthene	µg/kg	5.2	2200000	1E+07	880000	64	23	36%	16	25%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Fluorene	µg/kg	3.8	2180000	1E+07	8900	64	2	3%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Fluoride	mg/kg	10.2	3040	14200	140	29	29	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Heptachlor	µg/kg	0.24	144	484	3600	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Hexachlorobenzene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	53	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Hexachlorocyclopentadiene	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Hexachloroethane	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
High Diesel Range Organics - Approximately >C20	mg/kg	5				109	77	71%	53	49%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
HMX	µg/kg		3850000		630000	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	64	16	25%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Iron	mg/kg					56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Isophorone	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Isopropylbenzene	µg/kg		1510000		13000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Lead	mg/kg	49	80	360	39	63	62	98%	1	2%	1	2%	0	0%	1	2%	No	Yes	No	Yes	###	FALSE	###	No
Lithium	mg/kg	91	152	710	87	59	57	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				59	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				89	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
m,p-Xylene	µg/kg		428000		4200	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Magnesium	mg/kg					56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Manganese	mg/kg	1120	6130	29600	920	56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
MCPA	µg/kg	761	34300	160000	610	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
MCPP	µg/kg	377	68600	320000	7400	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
M-Dinitrobenzene	µg/kg		6110		2500	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				59	17	29%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	74	41	55%	4	5%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Methanol	µg/kg	700				17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Methyl Iodide	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Methyl Tert-Butyl Ether	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Methylene Chloride	µg/kg	10	2970	37100	230000	16	8	50%	3	19%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Mirex	µg/kg	0.5	32.8	110	340	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Moisture	%					81	81	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Molybdenum	mg/kg	3.2	380	1780	1.3	62	29	47%	0	0%	0	0%	0	0%	2	3%	No	No	No	Yes	###	FALSE	###	No
m-Terphenyl	mg/kg		65		6.7	22	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Naphthalene	µg/kg	3.6	14600	204000	130000	64	20	31%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
n-Butylbenzene	µg/kg		845000		180000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Nickel	mg/kg	132	908	4280	30	62	62	100%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	###	FALSE	###	No
Nitrate	mg/kg	22.3				17	17	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Nitrobenzene	µg/kg					54	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Nitroglycerin	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	158	22	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
N-Nitroso-di-n-propylamine	µg/kg					37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - 06

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
n-Nitrosodiphenylamine as Diphenylamine	µg/kg					11	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
n-Propylbenzene	µg/kg		3160000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
OCDD	ng/kg					63	39	62%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
OCDF	ng/kg					63	29	46%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
o-Terphenyl	mg/kg	7	65	180	6.7	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
o-Xylene	µg/kg		286000		4300	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Perchlorate	µg/kg	1.63	53300	249000	7700	54	6	11%	6	11%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
PETN	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
pH	pH					71	71	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Phenanthrene	µg/kg	3.9	16400000	7.7E+07	13000	64	22	34%	12	19%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Phenol	µg/kg	170	18300000	8.6E+07	51000	37	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Phosphorus	mg/kg					56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Potassium	mg/kg	14400				59	59	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Propylene Glycol	mg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
p-Terphenyl	mg/kg		65		5.4	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	64	25	39%	14	22%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
PYRIDINE	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
RDX	µg/kg	300	5940	24500	1500	17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Selenium	mg/kg	1	380	1780	1.5	62	46	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Silver	mg/kg	0.2	230	1070	29	62	54	87%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Sodium	mg/kg	1780				68	68	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Strontium	mg/kg	163	45600	213000	1750	56	56	100%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Styrene	µg/kg		11400000		420000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	3	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
tert-Butyl ethyl ether	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
tert-Butylbenzene	µg/kg		1730000		11000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Tertiary amyl methyl ether	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Tertiary butyl alcohol	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Tetrachloroethene	µg/kg	5	416	3520	11000	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Tetryl	µg/kg					17	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	62	59	95%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Tin	mg/kg		45600	213000	77	56	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Titanium	mg/kg					56	56	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Toluene	µg/kg	5	3740000	2.9E+07	590000	16	3	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	64	64	100%	12	19%	3	5%	1	2%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	###	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	63	51	81%	11	17%	1	2%	0	0%	1	2%	Yes	Yes	No	Yes	TRUE	FALSE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No

Table A-17 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - O6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
trans-1,3-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Trichloroethene	µg/kg	5	797	10100	797	16	2	13%	1	6%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	###	No
Trichlorofluoromethane	µg/kg		530000		850000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Vanadium	mg/kg	175	188	878	16	62	62	100%	0	0%	0	0%	0	0%	62	100%	No	No	No	Yes	###	FALSE	###	No
Vinyl Acetate	µg/kg					4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Zinc	mg/kg	215	22800	107000	320	62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	###	No
Zirconium	mg/kg	19	6.09	28.4	8	59	58	98%	0	0%	5	8%	0	0%	1	2%	No	Yes	No	Yes	###	FALSE	###	No

Notes:
mg/kg – milligrams per kilogram
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLs	% Exceeds Rec. RBLs	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
% Solids	%					8	8	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					54	27	50%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					54	20	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					54	6	11%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					54	10	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					54	10	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					54	17	31%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					54	11	20%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					54	16	30%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					54	13	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					54	12	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					54	9	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	15	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Chlorohexane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	59	5	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	1E+07	130000	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,6,7,8-HXCDF	ng/kg					54	9	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,4,7,8-PECDF	ng/kg					54	12	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					54	9	17%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					54	24	44%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3E+06	16000	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	3E+06	5500	7	1	14%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3E+06	19000	7	2	29%	2	29%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorophenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1E+06	170000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	59	11	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitroaniline	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrophenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
2-Propanol	µg/kg					6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitroaniline	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	7	1	14%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4,4'-DDT	µg/kg	13	1740	5830	580	7	1	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Bromophenyl-phenylether	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chloroaniline	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrophenol	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	2E+07	11000	59	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	1E+07	3300	59	3	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3E+08	230000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrolein	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Acrylonitrile	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aluminum	mg/kg	###	75300	354000	160	66	66	100%	0	0%	0	0%	0	0%	66	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Aniline	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	8E+07	22000	59	4	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	69	36	52%	7	10%	3	4%	1	1%	5	7%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	62	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	62	10	16%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	62	4	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				60	7	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				60	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	60	8	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	72	72	100%	2	3%	72	100%	72	100%	2	3%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Barium	mg/kg	371	11000	51900	89	66	66	100%	0	0%	0	0%	0	0%	54	82%	No	No	No	Yes	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzene	µg/kg	5	115	1560	730000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzidine	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	59	14	24%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	59	13	22%	6	10%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	59	21	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(e)pyrene	µg/kg		1650000		270000	18	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	8E+06	460000	59	12	20%	5	8%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	59	13	22%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	244000000		45000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	60	32	53%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	66	61	92%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromochloromethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	57	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	66	60	91%	5	8%	0	0%	0	0%	5	8%	Yes	No	No	Yes	FALSE	FALSE	TRUE	Yes
Calcium	mg/kg					62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroethane	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	16	2	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	66	66	100%	0	0%	0	0%	0	0%	65	98%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	78	40	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	59	25	42%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
cis-1,3-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	66	66	100%	0	0%	0	0%	0	0%	3	5%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di isopropyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	59	5	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	1E+07	1500	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3E+06	3900	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	7	1	14%	1	14%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2E+08	23000	59	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2E+08	45000	57	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		3E+07		59	3	5%	3	5%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		2	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	57	4	7%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	2E+06	4200	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	2E+06	4200	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	2E+06	4400	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	7	1	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethanol	µg/kg	700				6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Ethylene Glycol	mg/kg					32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	1E+07	880000	59	19	32%	6	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	1E+07	8900	59	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	39	38	97%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	7	1	14%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Hexachlorobutadiene	µg/kg	5	6670	18400	110	55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Hexachloroethane	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				62	39	63%	27	44%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	59	11	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Iron	mg/kg					62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isophorone	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	74	74	100%	9	12%	8	11%	4	5%	10	14%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
Lithium	mg/kg	91	152	710	87	62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				51	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Magnesium	mg/kg					62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	62	62	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
MCPP	µg/kg	377	68600	320000	7400	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				32	6	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	66	24	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methanol	µg/kg	700				6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Iodide	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	16	2	13%	2	13%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Moisture	%					68	68	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	66	42	64%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	59	12	20%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Nitrate	mg/kg	22.3				6	6	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitrobenzene	µg/kg					55	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Nitroglycerin	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	130	12	9%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	39	1	3%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDD	ng/kg					54	30	56%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
OCDF	ng/kg					54	20	37%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Terphenyl	mg/kg	7	65	180	6.7	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	43	1	2%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
PETN	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
pH	pH					78	78	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	8E+07	13000	59	18	31%	6	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	9E+07	51000	39	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Phosphorus	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Potassium	mg/kg	##				66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Propylene Glycol	mg/kg					32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	6	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	8E+06	73000	59	18	31%	6	10%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	66	61	92%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	66	59	89%	4	6%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	3E+06	1800	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Sodium	mg/kg	1780				66	66	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	58	58	100%	2	3%	0	0%	0	0%	0	0%	Yes	No	No	No	FALSE	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	7	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butyl ethyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tetryl	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	62	60	97%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	58	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Titanium	mg/kg					58	58	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No

Table A-18 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P6

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Toluene	µg/kg	5	3740000	3E+07	590000	16	1	6%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	59	59	100%	6	10%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.91	4.81	18	5	54	37	69%	8	15%	4	7%	2	4%	3	6%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	66	66	100%	0	0%	0	0%	0	0%	66	100%	No	No	No	Yes	FALSE	FALSE	FALSE	No
Vinyl Acetate	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zinc	mg/kg	215	22800	107000	320	66	66	100%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	FALSE	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	62	61	98%	0	0%	4	6%	0	0%	2	3%	No	Yes	No	Yes	FALSE	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Res. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
1,1,1,2-Tetrachloroethane	µg/kg		2870		190000	10	0	0%	0	ND	0	0%	0.3	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1,1-Trichloroethane	µg/kg		5740000		6240000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1,2,2-Tetrachloroethane	µg/kg		288		100000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg		28800000		220000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1,2-Trichloroethane	µg/kg		533		100000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1-Dichloroethane	µg/kg		1890		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1-Dichloroethene	µg/kg	5	55800	759000	18000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,1-Dichloropropene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDD	ng/kg					38	29	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,4,6,7,8-HPCDF	ng/kg					38	28	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,4,7,8,9-HPCDF	ng/kg					38	6	16%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,4,7,8-HXCDD	ng/kg					38	26	68%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,4,7,8-HXCDF	ng/kg					38	20	53%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,6,7,8-HXCDD	ng/kg					38	31	82%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,6,7,8-HXCDF	ng/kg					38	24	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,7,8,9-HXCDD	ng/kg					38	29	76%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,7,8,9-HXCDF	ng/kg					38	21	55%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,7,8-PECDD	ng/kg					38	28	74%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3,7,8-PECDF	ng/kg					38	27	71%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3-Trichlorobenzene	µg/kg		39000		37000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,3-Trichloropropane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,4-Trichlorobenzene	µg/kg		29200		37000	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2,4-Trimethylbenzene	µg/kg		39700		4000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Dibromo-3-chloropropane	µg/kg		97.8		1400	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Dibromoethane	µg/kg		104		62000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Dichlorobenzene	µg/kg		1700000		130000	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Dichloroethane	µg/kg		261		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Dichloropropane	µg/kg		439		160000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,2-Diphenylhydrazine	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,3,5-Trimethylbenzene	µg/kg		175000		4100	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,3,5-Trinitrobenzene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,3-Dichlorobenzene	µg/kg		915000		110000	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,3-Dichloropropane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,4-Dichlorobenzene	µg/kg		1330		28000	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1,4-Dioxane	µg/kg	10	19300	53200	4600	9	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1-Chlorohexane	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
1-Methylnaphthalene	µg/kg	2.5	7290	32200	260000	47	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,2-Dichloropropane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,2-Dichlor-Propionic Acid	µg/kg	12.5	2060000	9610000	130000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,3,4,6,7,8-HXCDF	ng/kg					38	23	61%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
2,3,4,7,8-PECDF	ng/kg					38	17	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,3,7,8-TCDD	ng/kg					38	11	29%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,3,7,8-TCDF	ng/kg					38	22	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4,5-T	µg/kg	1.2	686000	3200000	16000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4,5-Trichlorophenol	µg/kg		6110000		220000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4,6-Trichlorophenol	µg/kg		7430		230000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4,6-Trinitrotoluene	µg/kg		20700		650	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-D	µg/kg	5.8	686000	2560000	5500	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-DB	µg/kg	2.4	549000	3200000	19000	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-Diamino-6-nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-Dichlorophenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-Dimethylphenol	µg/kg		1220000		330000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-Dinitrophenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,4-Dinitrotoluene	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,6-Diamino-4-nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2,6-Dinitrotoluene	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Amino-4,6-Dinitrotoluene	µg/kg		154000		460	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Butanone (MEK)	µg/kg		23300000		21100000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Chloro-1,1,1-trifluoroethane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Chloroethyl Vinyl Ether	µg/kg		4.2		910000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Chloronaphthalene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Chlorophenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Chlorotoluene	µg/kg		337000		63000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Hexanone	µg/kg	10	170000	1270000	170000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Methylnaphthalene	µg/kg	2.5	162000	918000	260000	47	6	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Methylphenol	µg/kg		3060000		17000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Nitroaniline	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Nitrophenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Phenylbutane	µg/kg		1730000		9800	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
2-Propanol	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
3,3'-Dichlorobenzidine	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
3,5-Dimethylphenol	µg/kg		440000		26000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
3-Nitroaniline	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
3-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4,4'-DDD	µg/kg	0.48	2460	8260	850	26	1	4%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
4,4'-DDE	µg/kg	8.6	1740	5830	280	26	14	54%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
4,4'-DDT	µg/kg	13	1740	5830	580	26	15	58%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4,6-Dinitro-2-methylphenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Amino-2,6-Dinitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Res. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
4-Bromophenyl-phenylether	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Chloro-3-methylphenol	µg/kg		6110000		17000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Chloroaniline	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Chlorophenyl-phenylether	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Chlorotoluene	µg/kg		310000		64000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Methyl-2-pentanone (MIBK)	µg/kg		4960000		45000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Methylphenol	µg/kg		6110000		43000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Nitroaniline	µg/kg		34200		34000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Nitrophenol	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
4-Nitrotoluene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Acenaphthene	µg/kg	2.5	3230000	15300000	11000	47	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Acenaphthylene	µg/kg	2.5	2980000	14900000	3300	47	1	2%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Acetone	µg/kg	20	60100000	3.11E+08	230000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Acrolein	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Acrylonitrile	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aldrin	µg/kg	0.24	34.8	117	570	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Alpha-BHC	µg/kg	0.24	219	734	2900	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aluminum	mg/kg	58600	75300	354000	160	47	47	100%	0	0%	0	0%	0	0%	47	100%	No	No	No	Yes	###	FALSE	FALSE	No
Aniline	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Anthracene	µg/kg	2.5	16400000	77000000	22000	47	7	15%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Antimony	mg/kg	0.86	26.4	123	2	47	43	91%	20	43%	0	0%	0	0%	2	4%	Yes	No	No	Yes	###	FALSE	TRUE	Yes
Aroclor 1016	µg/kg	17	3860	16100	1200	46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1221	µg/kg	33				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1232	µg/kg	17				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1242	µg/kg	17	232	564	430	46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1248	µg/kg	17	232	564	64	46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1254	µg/kg	17	232	564	390	46	3	7%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1260	µg/kg	17	232	564	250	47	9	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1262	µg/kg	33				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 1268	µg/kg	33				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 5432	µg/kg	50				46	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 5442	µg/kg	50				46	1	2%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Aroclor 5460	µg/kg	50	232	564	390	47	9	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Arsenic	mg/kg	46	0.0658	0.246	31	47	47	100%	0	0%	47	100%	47	100%	6	13%	No	Yes	Yes	Yes	###	FALSE	FALSE	No
Barium	mg/kg	371	11000	51900	89	47	47	100%	0	0%	0	0%	0	0%	41	87%	No	No	No	Yes	###	FALSE	FALSE	No
Benzene	µg/kg	5	115	1560	730000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzidine	µg/kg					24	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzo(a)anthracene	µg/kg		387	939	50000	47	12	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzo(a)pyrene	µg/kg	4.47	38.7	93.9	310000	47	14	30%	2	4%	1	2%	0	0%	0	0%	Yes	Yes	No	No	TRUE	FALSE	FALSE	Yes
Benzo(b)fluoranthene	µg/kg		387	939	150000	47	21	45%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Benzo(e)pyrene	µg/kg		1650000		270000	22	1	5%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzo(g,h,i)perylene	µg/kg	2.5	1650000	7710000	460000	47	15	32%	5	11%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Benzo(k)fluoranthene	µg/kg		387	939	310000	47	17	36%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzoic Acid	µg/kg	660	2.44E+08		45000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Benzyl Alcohol	µg/kg		6110000		45000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Beryllium	mg/kg	2.2	31.2	146	13	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Beta-BHC	µg/kg	0.23	394	1320	2900	26	2	8%	2	8%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
bis(2-chloroethoxy)methane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
bis(2-chloroethyl) ether	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
bis(2-chloroisopropyl) ether	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bis(2-ethylhexyl)phthalate	µg/kg	61	173000	479000	65000	47	21	45%	1	2%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Boron	mg/kg	34	15200	71000	73	47	33	70%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bromobenzene	µg/kg		236000		43000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bromochloromethane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bromodichloromethane	µg/kg		195		51000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bromoform	µg/kg		62200		45000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Bromomethane	µg/kg		5160		16000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Butylbenzylphthalate	µg/kg	100	274000	756000	260000	47	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Cadmium	mg/kg	0.7	4.6	9.06	0.81	47	47	100%	5	11%	0	0%	0	0%	2	4%	Yes	No	No	Yes	###	FALSE	TRUE	Yes
Calcium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Carbazole	µg/kg		26000		15000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Carbon Disulfide	µg/kg		542000		51000	1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Carbon Tetrachloride	µg/kg		71		35000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chlordane (Technical)	µg/kg	7	1690		5600	26	11	42%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Chlorobenzene	µg/kg		135000		43000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chloroethane	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chloroform	µg/kg		733		190000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chloromethane	µg/kg		45100		16000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chlorotrifluoroethylene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Chromium	mg/kg	94	37200	174000	14	47	47	100%	0	0%	0	0%	0	0%	47	100%	No	No	No	Yes	###	FALSE	FALSE	No
Chromium (Hexavalent Compounds)	mg/kg	2	1.29	6.27	30	50	34	68%	0	0%	4	8%	0	0%	0	0%	No	Yes	No	No	###	FALSE	FALSE	No
Chrysene	µg/kg		3870	9390	76000	47	24	51%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
cis-1,2-Dichloroethene	µg/kg	5	9220	115000	220000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
cis-1,3-Dichloropropene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Cobalt	mg/kg	44	22.8	106	190	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Copper	mg/kg	119	3040	14200	24	47	47	100%	0	0%	0	0%	0	0%	6	13%	No	No	No	Yes	###	FALSE	FALSE	No
Cyanide	mg/kg	0.6	45.6	213	1.8	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Cymene	µg/kg		1940000		37000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Delta-BHC	µg/kg	0.22	328	1100	2600	26	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Di isopropyl Ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dibenzo(a,h)anthracene	µg/kg		113	275	140000	47	6	13%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dibenzofuran	µg/kg		54700		12000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dibromochloromethane	µg/kg		7280		59000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dibromomethane	µg/kg		22300		230000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dicamba	µg/kg	1.3	2060000	9610000	1500	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dichlorodifluoromethane	µg/kg		66200		410000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dichlorprop	µg/kg	2.4	686000	3200000	3900	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dieldrin	µg/kg	0.48	36.9	124	580	26	8	31%	4	15%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Diethylene Glycol	mg/kg		6110			10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Diethylphthalate	µg/kg	27	48900000	2.28E+08	23000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dimethylphthalate	µg/kg	27	48900000	2.28E+08	45000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Di-n-butylphthalate	µg/kg	27		28500000		47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Dinitrobutyl Phenol	µg/kg	3.3	68600	320000		4	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Di-n-octylphthalate	µg/kg	27	611000	285000	130000	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endosulfan I	µg/kg	0.24	412000	1920000	4200	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endosulfan II	µg/kg	0.48	412000	1920000	4200	26	2	8%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endosulfan Sulfate	µg/kg	0.48	412000	1920000	4400	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endrin	µg/kg	0.48	20600	96100	79	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endrin Aldehyde	µg/kg	0.7	20600	96100	92	26	3	12%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Endrin Ketone	µg/kg	0.7	20600	96100	86	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Ethanol	µg/kg	700				10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Ethylbenzene	µg/kg	5	2310	30100	240000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Ethylene Glycol	mg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Fluoranthene	µg/kg	5.2	2200000	10300000	880000	47	19	40%	9	19%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Fluorene	µg/kg	3.8	2180000	10200000	8900	47	2	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Fluoride	mg/kg	10.2	3040	14200	140	25	24	96%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Formaldehyde	µg/kg	1870	12200000	57000	380000	10	8	80%	1	10%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Gamma-BHC (Lindane)	µg/kg	0.24	537	1800	5600	26	1	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Heptachlor	µg/kg	0.24	144	484	3600	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Heptachlor Epoxide	µg/kg	0.24	107	360	6.5	26	4	15%	1	4%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Hexachloro-1,3-butadiene	µg/kg	5	6670	18400	110	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Hexachlorobenzene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Hexachlorobutadiene	µg/kg	5	6670	18400	110	35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Hexachlorocyclopentadiene	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Hexachloroethane	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
High Diesel Range Organics - Approximately >C20	mg/kg	5				64	34	53%	28	44%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
HMX	µg/kg		3850000		630000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Indeno(1,2,3-cd)pyrene	µg/kg		387	939	300000	47	12	26%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Res. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Iron	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Isophorone	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Isopropylbenzene	µg/kg		1510000		13000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Lead	mg/kg	49	80	360	39	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Lithium	mg/kg	91	152	710	87	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Low Diesel Range Organics - Approximately C10-C15	mg/kg	5				32	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Low Gasoline Range Organics - Approximately <C12	mg/kg	5				45	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
m,p-Xylene	µg/kg		428000		4200	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Magnesium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Manganese	mg/kg	1120	6130	29600	920	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
MCPA	µg/kg	761	34300	160000	610	16	8	50%	4	25%	0	0%	0	0%	5	31%	Yes	No	No	Yes	###	FALSE	TRUE	Yes
MCPP	µg/kg	377	68600	320000	7400	16	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
M-Dinitrobenzene	µg/kg		6110		2500	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Medium Diesel Range Organics - Approximately C15-C20	mg/kg	5				32	4	13%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Mercury	mg/kg	0.13	16.8	78.2	1.7	47	22	47%	6	13%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Methanol	µg/kg	700				10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Methoxychlor	µg/kg	2.4	343000	160000	50000	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Methyl Iodide	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Methyl Tert-Butyl Ether	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Methylene Chloride	µg/kg	10	2970	37100	230000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Mirex	µg/kg	0.5	32.8	110	340	26	5	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Moisture	%					48	48	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Molybdenum	mg/kg	3.2	380	1780	1.3	47	25	53%	0	0%	0	0%	0	0%	1	2%	No	No	No	Yes	###	FALSE	FALSE	No
m-Terphenyl	mg/kg		65		6.7	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Naphthalene	µg/kg	3.6	14600	204000	130000	47	11	23%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
n-Butylbenzene	µg/kg		845000		180000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Nickel	mg/kg	132	908	4280	30	47	47	100%	0	0%	0	0%	0	0%	3	6%	No	No	No	Yes	###	FALSE	FALSE	No
Nitrate	mg/kg	22.3				10	10	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Nitrobenzene	µg/kg					35	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Nitroglycerin	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
N-Nitrosodimethylamine	µg/kg	10	32.5	89.8	79000	114	4	4%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
N-Nitroso-di-n-propylamine	µg/kg					25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
N-Nitrosodiphenylamine	µg/kg		57800		28000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
n-Propylbenzene	µg/kg		3160000		220000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
OCDD	ng/kg					38	32	84%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
OCDF	ng/kg					38	24	63%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBSL	% Exceeds Rec. RBSL	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
o-Terphenyl	mg/kg	7	65	180	6.7	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
o-Xylene	µg/kg		286000		4300	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Pentachlorophenol	µg/kg	170	21200	43800	10000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Perchlorate	µg/kg	1.63	53300	249000	7700	30	1	3%	1	3%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
PETN	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
pH	pH					48	48	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Phenanthrene	µg/kg	3.9	16400000	77000000	13000	47	17	36%	4	9%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Phenol	µg/kg	170	18300000	85500000	51000	25	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Phosphorus	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Potassium	mg/kg	14400				47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Propylene Glycol	mg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
p-Terphenyl	mg/kg		65		5.4	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Pyrene	µg/kg	5.6	1650000	7710000	73000	47	19	40%	7	15%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
RDX	µg/kg	300	5940	24500	1500	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Selenium	mg/kg	1	380	1780	1.5	47	39	83%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Silver	mg/kg	0.2	230	1070	29	47	38	81%	2	4%	0	0%	0	0%	0	0%	Yes	No	No	No	###	FALSE	FALSE	No
Silvex (2,4,5-TP)	µg/kg	0.63	549000	2560000	1800	16	3	19%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Sodium	mg/kg	1780				47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Strontium	mg/kg	163	45600	213000	1750	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Styrene	µg/kg		11400000		420000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Technical Toxaphene	µg/kg	8.8	493	1650	580	26	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
tert-Butyl ethyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
tert-Butylbenzene	µg/kg		1730000		11000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Tertiary amyl methyl ether	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Tertiary butyl alcohol	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Tetrachloroethene	µg/kg	5	416	3520	11000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Tetryl	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Thallium	mg/kg	1.2	0.761	3.55	8.2	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Tin	mg/kg		45600	213000	77	47	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Titanium	mg/kg					47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Toluene	µg/kg	5	3740000	29300000	590000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Total TEQ_BAP	µg/kg	4.47	38.7	93.9	310000	47	47	100%	6	13%	1	2%	1	2%	0	0%	Yes	Yes	Yes	No	TRUE	TRUE	FALSE	Yes
Total TEQ_Dioxin	ng/kg	0.912	4.81	18	5	38	34	89%	18	47%	4	11%	3	8%	3	8%	Yes	Yes	Yes	Yes	TRUE	TRUE	TRUE	Yes
trans-1,2-Dichloroethene	µg/kg		85300		240000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
trans-1,3-Dichloropropene	µg/kg					10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Trichloroethene	µg/kg	5	797	10100	797	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Trichlorofluoromethane	µg/kg		530000		850000	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Vanadium	mg/kg	175	188	878	16	47	47	100%	0	0%	0	0%	0	0%	47	100%	No	No	No	Yes	###	FALSE	FALSE	No
Vinyl Acetate	µg/kg					1	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Vinyl Chloride	µg/kg	5	20.4	282	7800	10	0	0%	0	ND	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No

Table A-19 Summary of Preliminary Chemicals of Concern Based on Comparison to Lookup Tables and Risk Based Screening Levels - P11

Chemical Name	Unit	LUT	Res. RBSL	Rec. RBSL	ECO RBSL	# of Samples	# of Detects	% Detected	# Exceeds LUT	% Exceeds LUT	# Exceeds Res. RBSL	% Exceeds Res. RBSL	# Exceeds Rec. RBLS	% Exceeds Rec. RBLS	# Exceeds ECO RBSL	% Exceeds ECO RBSL	COC based on LUT and FoD	COC based on Res. RBSL	COC based on Rec. RBSL	COC based on ECO RBSL	COC based on LUT, FoD, and Res. RBSL	COC based on LUT, FoD, and Rec. RBSL	COC based on LUT, FoD, and ECO RBSL	COC
Zinc	mg/kg	215	22800	107000	320	47	47	100%	0	0%	0	0%	0	0%	0	0%	No	No	No	No	###	FALSE	FALSE	No
Zirconium	mg/kg	19	6.09	28.4	8	47	46	98%	0	0%	4	9%	0	0%	0	0%	No	Yes	No	No	###	FALSE	FALSE	No

Notes:
mg/kg – milligrams per
µg/kg – micrograms per
ng/kg – nanograms per
Rec. - Recreational
Res. - Residential

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Appendix B

Detailed Risk Evaluations

Table B1-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to AOC LUT Values Alternative
Table B1-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to AOC LUT Values Alternative

Table B2-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B2-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to Revised LUT Values Alternative
Table B3-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario

Table B3-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B3-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative – Residential Scenario
Table B4-1 Summary of Recreational Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario
Table B4-2 Summary of Recreational Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario
Table B4-3 Summary of Recreational Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario
Table B4-4 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario
Table B4-5 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-6 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-7 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-8 Summary of Recreational Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-9 Summary of Recreational Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-10 Summary of Recreational Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-11 Summary of Recreational Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-12 Summary of Recreational Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-13 Summary of Recreational Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-14 Summary of Recreational Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-15 Summary of Recreational Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-16 Summary of Recreational Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-17 Summary of Recreational Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-18 Summary of Recreational Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B4-19 Summary of Recreational Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative – Open Space Scenario

Table B1-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0528	0.017	0.232	1.1	2E-07	5E-02	0.3%	0.2%	40	1E-03	500	1E-04	0.25	2E-01
Benzo(a)pyrene	39	83	47%	0.00077	8.8	0.821	0.00447	0.0387	--	2E-05	NC	--	--	1.5	5E-01	18	5E-02	310	3E-03
Total TEQ_BAP	48	77	62%	0.000012	13.4	2.62	0.00447	0.0387	--	7E-05	NC	96.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	8.39E-05	1.22E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	3.6%	0.9%	--	NC	--	NC	5.00E-06	2E+00
Antimony	42	85	49%	0.078	1010	64.4	0.86	--	26.4	NC	2E+00	--	9.1%	5	1E+01	78	8E-01	2	3E+01
Cadmium	82	85	96%	0.038	5.01	0.736	0.7	844	4.6	9E-10	2E-01	0.001%	0.6%	32	2E-02	140	5E-03	0.81	9E-01
Lead	85	85	100%	2.6	30200	1916	49	--	80	NC	2E+01	--	89.2%	115	2E+01	1700	1E+00	39	5E+01
Phenanthrene	39	83	47%	0.00074	18	1.55	0.0039	--	16400	NC	9E-05	--	0.0004%	1.2	1E+00	29	5E-02	356	4E-03
Zinc	86	86	100%	35.3	1300	241	215	--	22800	NC	1E-02	--	0.04%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-05		Hazard Index		3E+01		4E+00		9E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.0097	0.0264	0.00427	0.00556	1.157	--	4E-07	NC	1.35%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	6.59	1.39	0.193	5.295	--	3E-05	NC	96.17%	--	20.8	7E-02				
Strontium-90	28	44	64%	0.138	14.3	2.44	0.075	360	--	7E-07	NC	2.48%	--	22.5	1E-01				
Total Radionuclide Risk										3E-05		Sum of Fractions		2E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-04									
No Action Alternative Total Hazard Index										3E+01									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.017	0.0098	0.017	0.232	1.1	4E-08	9E-03	13.7%	2.6%	40	2E-04	500	2E-05	0.25	4E-02
Benzo(a)pyrene	39	83	47%	0.00077	0.00447	0.003	0.00447	0.0387	--	9E-08	NC	--	--	1.5	2E-03	18	2E-04	310	1E-05
Total TEQ_BAP	48	77	62%	0.000012	0.0	0.00	0.00447	0.0387	--	1E-07	NC	35.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	9.12E-07	7.48E-07	9.12E-07	5E-06	5E-05	2E-07	1E-02	50.5%	4.4%	--	NC	--	NC	5.00E-06	1E-01
Antimony	42	85	49%	0.078	0.86	0.4	0.86	--	26.4	NC	2E-02	--	4.5%	5	8E-02	78	5E-03	2	2E-01
Cadmium	82	85	96%	0.038	0.7	0.314	0.7	844	4.6	4E-10	7E-02	0.1%	20.1%	32	1E-02	140	2E-03	0.81	4E-01
Lead	85	85	100%	2.6	49	18.22	49	--	80	NC	2E-01	--	67.2%	115	2E-01	1700	1E-02	39	5E-01
Phenanthrene	39	83	47%	0.00074	0.0039	0.00	0.0039	--	16400	NC	2E-07	--	0.0%	1.2	2E-03	29	9E-05	356	7E-06
Zinc	86	86	100%	35.3	215	94	215	--	22800	NC	4E-03	--	1.2%	160	6E-01	120	8E-01	411	2E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-07		Hazard Index*		8E-01		8E-01		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.00556	0.0264	0.0043	0.00556	1.157	--	4E-07	NC	8.76%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	0.223	0.199	0.193	5.295	--	4E-06	NC	89.2%	--	20.8	1E-02				
Strontium-90	28	44	64%	0.075	0.996	0.31	0.075	360	--	9E-08	NC	2.07%	--	22.5	1E-02				
Total Radionuclide Risk										4E-06		Sum of Fractions		2E-02					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										5E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index										3E-01									

Notes:
% Percent
BTV Background Threshold Value
Conc. Concentration
Eco Ecological

Table B1-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to AOC LUT Values Alternative

HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	2.60E+01	50	52%	0.00326	2.6	0.0668	0.017	0.232	1.1	3E-07	6E-02	0.9%	2.6%	40	2E-03	500	1E-04	0.39	2E-01		
Aroclor 5460	29	36	81%	0.0012	3.3	0.562	0.05	0.232	1.1	2E-06	5E-01	7.8%	21.6%	40	1E-02	500	1E-03	0.39	1E+00		
Total TEQ_BAP	38	49	78%	0.00022	1.49	0.599	0.00447	0.0387	--	2E-05	NC	50.0%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	31	31	100%	1.87E-07	2.01E-04	5.40E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	36.2%	45.2%	--	NC	--	NC	0.000005	1E+01		
Benzo(a)anthracene	31	49	63%	0.000271	1	0.269	0.00447	0.387	--	7E-07	NC	--	--	1.5	2E-01	18	1E-02	50	5E-03		
Benzo(a)pyrene	31	49	63%	0.000249	0.93	0.285	0.00447	0.0387	--	7E-06	NC	--	--	1.5	2E-01	18	2E-02	310	9E-04		
Benzo(b)fluoranthene	36	49	73%	0.000494	1.5	0.457	0.00447	0.387	--	1E-06	NC	--	--	1.2	4E-01	18	3E-02	150	3E-03		
Benzo(k)fluoranthene	18	38	47%	0.00061	0.63	0.231	0.00447	0.387	--	6E-07	NC	--	--	1.2	2E-01	18	1E-02	310	7E-04		
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.18	0.0306	0.00447	0.113	--	3E-07	NC	--	--	1.2	3E-02	18	2E-03	140	2E-04		
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.65	0.178	0.00447	0.387	--	5E-07	NC	--	--	1.2	1E-01	18	1E-02	300	6E-04		
Chromium (Hexavalent)	13	22	59%	0.32	4.8	2.00	2	1.29	234	2E-06	9E-03	5.0%	0.4%	30	7E-02	2	1E+00	38	5E-02		
Lead	53	53	100%	2.9	78.3	16.4	49	--	80	NC	2E-01	--	8.7%	115	1E-01	1700	1E-02	39	4E-01		
Mercury	53	65	82%	0.0073	35	4.61	0.13	--	16.8	NC	3E-01	--	11.6%	0.3	2E+01	0.1	5E+01	1.7	3E+00		
Antimony	25	49	51%	0.014	3.22	0.619	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01		
Cadmium	50	50	100%	0.097	2.39	0.888	0.7	844	4.6	1E-09	2E-01	0.0%	8.2%	32	3E-02	140	6E-03	0.81	1E+00		
Molybdenum	49	50	98%	0.19	23.2	3.22	3.2	--	380	NC	8E-03	--	0.4%	2	2E+00	--	NC	2.6	1E+00		
Zinc	50	50	100%	35	796	228	215	--	22800	NC	1E-02	--	0.4%	160	1E+00	120	2E+00	411	6E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-05				Hazard Index		2E+01		5E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cobalt-60	5	46	11%	0.00668	0.048	0.0023	0.00556	1.157	--	2E-07	NC	0.14%	--	692	3E-06						
Cesium-137	42	46	91%	0.0105	46.4	7.32	0.193	5.295	--	1E-04	NC	99.5%	--	20.8	4E-01						
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	152.7	--	9E-09	NC	0.01%	--	6110	2E-06						
Strontium-90	17	40	43%	0.077	21.3	1.95	0.075	360	--	5E-07	NC	0.39%	--	22.5	9E-02						
Total Radionuclide Risk										1E-04				Sum of Fractions		4E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-04											
No Action Alternative Total Hazard Index										2E+00											

Table B1-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	26	50	52%	0.00326	0.072	0.0210	0.017	0.232	1.1	9E-08	2E-02	3.1%	3.7%	40	5E-04	500	4E-05	0.39	5E-02
Aroclor 5460	29	36	81%	0.0012	0.2	0.0461	0.05	0.232	1.1	2E-07	4E-02	6.8%	8.2%	40	1E-03	500	9E-05	0.39	1E-01
Total TEQ_ BAP	38	49	78%	0.00022	0.04141	0.0124	0.00447	0.0387	--	3E-07	NC	11.0%	--	--	NC	--	NC	--	NC
Total TEQ_ Dioxin	31	31	100%	0.000000187	0.00002541	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	41.2%	22.4%	--	NC	--	NC	0.000005	1E+00
Benzo(a)anthracene	31	49	63%	0.000271	0.022	0.0061	0.00447	0.387	--	2E-08	NC	--	--	1.5	4E-03	18	3E-04	50	1E-04
Benzo(a)pyrene	31	49	63%	0.000249	0.032	0.0073	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Benzo(b)fluoranthene	36	49	73%	0.000494	0.044	0.0090	0.00447	0.387	--	2E-08	NC	--	--	1.2	8E-03	18	5E-04	150	6E-05
Benzo(k)fluoranthene	18	38	47%	0.00061	0.0081	0.0051	0.00447	0.387	--	1E-08	NC	--	--	1.2	4E-03	18	3E-04	310	2E-05
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.00447	0.0040	0.00447	0.113	--	4E-08	NC	--	--	1.2	3E-03	18	2E-04	140	3E-05
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.017	0.0055	0.00447	0.387	--	1E-08	NC	--	--	1.2	5E-03	18	3E-04	300	2E-05
Chromium (Hexavalent)	13	22	59%	0.32	3	1.4260	2	1.29	234	1E-06	6E-03	37.9%	1.2%	30	5E-02	2	7E-01	38	4E-02
Lead	53	53	100%	2.9	49	15.5600	49	--	80	NC	2E-01	--	38.1%	115	1E-01	1700	9E-03	39	4E-01
Mercury	53	65	82%	0.0073	0.19	0.1120	0.13	--	16.8	NC	7E-03	--	1.3%	0.3	4E-01	0.1	1E+00	1.7	7E-02
Antimony	25	49	51%	0.014	1.52	0.4090	0.86	--	26.4	NC	2E-02	--	3.0%	5	8E-02	78	5E-03	2	2E-01
Cadmium	50	50	100%	0.097	2.2	0.4790	0.7	844	4.6	6E-10	1E-01	0.0%	20.4%	32	1E-02	140	3E-03	0.81	6E-01
Molybdenum	49	50	98%	0.19	3.2	0.8630	3.2	--	380	NC	2E-03	--	0.4%	2	4E-01	--	NC	2.6	3E-01
Zinc	50	50	100%	35	398	146.1000	215	--	22800	NC	6E-03	--	1.3%	160	9E-01	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-06		Hazard Index*		2E+00		3E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	46	11%	0.00668	0.0114	0.0028	0.00556	1.157	--	2E-07	NC	4.38%	--	692	4E-06				
Cesium-137	42	46	91%	0.0105	1.02	0.2770	0.193	5.295	--	5E-06	NC	94.4%	--	20.8	1E-02				
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	152.7	--	9E-09	NC	0.16%	--	6110	2E-06				
Strontium-90	17	40	43%	0.077	0.981	0.2150	0.075	360	--	6E-08	NC	1.08%	--	22.5	1E-02				
Total Radionuclide Risk										6E-06		Sum of Fractions		2E-02					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										8E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index												5E-01							

- Notes:**
- % Percent
 - BTV Background Threshold Value
 - Conc. Concentration
 - Eco Ecological
 - HH Human Health
 - LUT Look-Up Table
 - NC Not Calculated
 - PRG Preliminary Remediation Goal
 - RBSL Risk Based Screening Level
 - Rec-Eco Recreational-Ecological
 - TEQ_ BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
 - TEQ_ Dioxin Total Toxicity Equivalence Factor for dioxins/furans
 - TRV Toxicity Reference Value



Table B1-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to AOC LUT Values Alternative

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0290	0.017	0.232	1.1	1E-07	3E-02	0.0%	1.5%	40	7E-04	500	6E-05	0.064	5E-01		
Benzo(a)pyrene	49	53	92%	0.0012	31	6.20	0.00447	0.0387	--	2E-04	NC	--	--	1.5	4E+00	18	3E-01	310	2E-02		
Benzo(a)anthracene	46	53	87%	0.0006	16	1.86	0.00447	0.387	--	5E-06	NC	--	--	1.5	1E+00	18	1E-01	50	4E-02		
Benzo(b)fluoranthene	50	53	94%	0.00022	26	5.77	0.00447	0.387	--	1E-05	NC	--	--	1.2	5E+00	18	3E-01	150	4E-02		
Benzo(k)fluoranthene	33	43	77%	0.001	15	3.84	0.00447	0.387	--	1E-05	NC	--	--	1.2	3E+00	18	2E-01	310	1E-02		
Chrysene	50	53	94%	0.00028	22	2.8	0.00447	3.87	--	7E-07	NC	--	--	1.2	2E+00	18	2E-01	76	4E-02		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	1.6	0.210	0.00447	0.113	--	2E-06	NC	--	--	1.2	2E-01	18	1E-02	140	2E-03		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	77	14.4	0.00447	0.387	--	4E-05	NC	--	--	1.2	1E+01	18	8E-01	300	5E-02		
Total TEQ_BAP	50	52	96%	0.000051	43.3	13.0	0.00447	0.0387	--	3E-04	NC	97.3%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	4.20E-08	2.92E-04	4.08E-05	9.12E-07	4.81E-06	5.05E-05	8E-06	8E-01	2.5%	47.3%	--	NC	--	NC	5.00E-06	8E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.968	2	1.29	234	8E-07	4E-03	0.2%	0.2%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	97.4	30.0	49	--	80	NC	4E-01	--	21.9%	115	3E-01	1700	2E-02	39	8E-01		
Mercury	43	51	84%	0.0037	23.6	0.675	0.13	--	16.8	NC	4E-02	--	2.4%	0.3	2E+00	0.1	7E+00	1.7	4E-01		
Antimony	34	51	67%	0.017	11	3.07	0.86	--	26.4	NC	1E-01	--	6.8%	5	6E-01	78	4E-02	2	2E+00		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	76	8.78	0.061	173	1220	5E-08	7E-03	0.0%	0.4%	1000	9E-03	--	NC	183	5E-02		
Cadmium	52	53	98%	0.167	2.9	1.13	0.7	844	4.6	1E-09	2E-01	0.0%	14.4%	32	4E-02	140	8E-03	0.81	1E+00		
MCPA	13	24	54%	0.29	1.2	0.757	0.761	--	34.3	NC	2E-02	--	1.292%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	14	1.87	0.0039	--	16400	NC	1E-04	--	0.01%	1.2	2E+00	29	6E-02	356	5E-03		
Silver	46	53	87%	0.0249	44.8	9.95	0.2	--	230	NC	4E-02	--	2.5%	560	2E-02	--	NC	119	8E-02		
Zinc	53	53	100%	42	1860	496	215	--	22800	NC	2E-02	--	1.3%	160	3E+00	120	4E+00	411	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-04				Hazard Index		4E+01		1E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.359	0.193	5.295	--	7E-06	NC	100%	--	20.8	2E-02						
Total Radionuclide Risk										7E-06				Sum of Fractions		2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-04											
No Action Alternative Total Hazard Index										2E+00											

Table B1-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.017	0.0065	0.017	0.232	1.1	3E-08	6E-03	1.3%	0.9%	40	2E-04	500	1E-05	0.064	1E-01		
Benzo(a)pyrene	49	53	92%	0.0012	0.031	0.0067	0.00447	0.0387	--	2E-07	NC	--	--	1.5	4E-03	18	4E-04	310	2E-05		
Benzo(a)anthracene	46	53	87%	0.0006	0.041	0.0072	0.00447	0.387	--	2E-08	NC	--	--	1.5	5E-03	18	4E-04	50	1E-04		
Benzo(b)fluoranthene	50	53	94%	0.00022	0.043	0.0086	0.00447	0.387	--	2E-08	NC	--	--	1.2	7E-03	18	5E-04	150	6E-05		
Benzo(k)fluoranthene	33	43	77%	0.001	0.019	0.0053	0.00447	0.387	--	1E-08	NC	--	--	1.2	4E-03	18	3E-04	310	2E-05		
Chrysene	50	53	94%	0.00028	0.038	0.0075	0.00447	3.87	--	2E-09	NC	--	--	1.2	6E-03	18	4E-04	76	1E-04		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	0.00447	0.0035	0.00447	0.113	--	3E-08	NC	--	--	1.2	3E-03	18	2E-04	140	3E-05		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	0.021	0.0059	0.00447	0.387	--	2E-08	NC	--	--	1.2	5E-03	18	3E-04	300	2E-05		
Total TEQ_ BAP	50	52	96%	0.000051	0.04541	0.0135	0.00447	0.0387	--	3E-07	NC	16.4%	--	--	NC	--	NC	--	NC		
Total TEQ_ Dioxin	32	32	100%	0.000000042	0.00001849	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	50.6%	16.0%	--	NC	--	NC	0.000005	1E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2	0.8640	2	1.29	234	7E-07	4E-03	31.6%	0.6%	30	3E-02	2	4E-01	38	2E-02		
Lead	51	51	100%	6.4	49	27.2700	49	--	80	NC	3E-01	--	53.3%	115	2E-01	1700	2E-02	39	7E-01		
Mercury	43	51	84%	0.0037	0.13	0.0943	0.13	--	16.8	NC	6E-03	--	0.9%	0.3	3E-01	0.1	9E-01	1.7	6E-02		
Antimony	34	51	67%	0.017	0.86	0.3560	0.86	--	26.4	NC	1E-02	--	2.1%	5	7E-02	78	5E-03	2	2E-01		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	0.38	0.0385	0.061	173	1220	2E-10	3E-05	0.0%	0.0%	1000	4E-05	--	NC	183	2E-04		
Cadmium	52	53	98%	0.167	0.77	0.5900	0.7	844	4.6	7E-10	1E-01	0.0%	20.1%	32	2E-02	140	4E-03	0.81	7E-01		
MCPA	13	24	54%	0.29	0.761	0.6372	0.761	--	34.3	NC	2E-02	--	2.9%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	0.045	0.0075	0.0039	--	16400	NC	5E-07	--	0.0%	1.2	6E-03	29	3E-04	356	2E-05		
Silver	46	53	87%	0.0249	22	3.2630	0.2	--	230	NC	1E-02	--	2.2%	560	6E-03	--	NC	119	3E-02		
Zinc	53	53	100%	42	215	159.0000	215	--	22800	NC	7E-03	--	1.1%	160	1E+00	120	1E+00	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06				Hazard Index*		2E+00		3E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.213	0.1530	0.193	5.295	--	3E-06	NC	100%	--	20.8	7E-03						
Total Radionuclide Risk										3E-06				Sum of Fractions		7E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										5E-06											
Cleanup to AOC LUT Values Alternative Total Hazard Index										6E-01											

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans

Table B1-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to AOC LUT Values Alternative

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	0.0012	3.5	0.6885	0.017	0.232	1.1	3E-06	6E-01	42.7%	64.2%	40	2E-02	500	1E-03	0.39	2E+00
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.014	0.00447	0.0387	--	4E-07	NC	--	--	1.5	9E-03	18	8E-04	310	5E-05
Total TEQ_BAP	24	34	71%	0.0000015	0.0	0.01	0.00447	0.0387	--	3E-07	NC	4.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	8.80E-05	1.76E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	3E-01	52.7%	35.8%	--	NC	--	NC	0.000005	4E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-06		Hazard Index		3E-02		2E-03		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.14	0.193	5.295	--	3E-06	NC	100.00%	--	20.8	7E-03				
Total Radionuclide Risk										3E-06		Sum of Fractions		7E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index										1E+00									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	7	36	19%	0.0012	0.028	0.0081	0.017	0.232	1.1	4E-08	7E-03	2.3%	6.3%	40	2E-04	500	2E-05	0.39	2E-02		
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.0132	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05		
Total TEQ_BAP	24	34	71%	0.0000015	0.04524	0.0118	0.00447	0.0387	--	3E-07	NC	20.4%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	24	24	100%	2.63E-08	2.04E-05	5.57E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	77.3%	93.7%	--	NC	--	NC	0.000005	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06		Hazard Index*				9E-03		7E-04		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	20	85%	0.0107	0.485	0.1410	0.193	5.295	--	3E-06	NC	100.0%	--	20.8	7E-03						
Total Radionuclide Risk										3E-06		Sum of Fractions				7E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										4E-06											
Cleanup to AOC LUT Values Alternative Total Hazard Index										1E-01											

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Table B1-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to AOC LUT Values Alternative

Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	1.30E+01	26	50%	0.00022	0.043	0.0129	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05		
Total TEQ_BAP	17	26	65%	0.0000034	0.0548	0.016	0.00447	0.0387	--	4E-07	NC	4.7%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	18	18	100%	0.000000245	0.00	0.00002469	9.12E-07	4.81E-06	0.0000505	5E-06	5E-01	59.4%	39.7%	--	NC	--	NC	0.000005	5E+00		
Barium	29	29	100%	4.50E+01	1.00E+03	4.20E+02	3.71E+02	--	1.10E+04	NC	4E-02	--	3.1%	500	8E-01	330	1E+00	89	5E+00		
Chromium (Hexavalent)	5	6	83%	0.67	4	4.000	2	1.29	234	3E-06	2E-02	35.9%	1.4%	30	1E-01	2	2E+00	38	1E-01		
Lead	29	29	100%	4.9	77	32.860	49	--	80	NC	4E-01	--	33.3%	115	3E-01	1700	2E-02	110	3E-01		
Silver	20	30	67%	0.024	150	53.360	0.2	--	230	NC	2E-01	--	18.8%	560	1E-01	--	NC	119	4E-01		
Zinc	29	29	100%	43	3400	1039.000	215	--	22800	NC	5E-02	--	3.7%	283	4E+00	355	3E+00	411	3E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										9E-06				Hazard Index		5E+00		6E+00		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	18	94%	0.0137	196	119.50	0.193	5.295	--	2E-03	NC	100.0%	--	20.8	6E+00						
Total Radionuclide Risk										2E-03				Sum of Fractions		6E+00					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-03											
No Action Alternative Total Hazard Index										1E+00											

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	13	26	50%	0.000224	0.019	0.0055	0.00447	0.0387	--	1E-07	NC	--	--	1.5	4E-03	18	3E-04	310	2E-05		
Total TEQ_ BAP	17	26	65%	0.0000034	0.02211	0.0054	0.00447	0.0387	--	1E-07	NC	7.6%	--	--	NC	--	NC	--	NC		
Total TEQ_ Dioxin	18	18	100%	2.45E-07	8.62E-06	2.79E-06	9.12E-07	4.81E-06	0.0000505	6E-07	6E-02	31.6%	13.8%	--	NC	--	NC	0.000005	6E-01		
Barium	29	29	100%	45	371	162.5	371	--	11000	NC	1E-02	--	3.7%	500	3E-01	330	5E-01	89	2E+00		
Chromium (Hexavalent)	5	6	83%	0.67	2	1.4350	2	1.29	234	1E-06	6E-03	--	1.5%	30	5E-02	2	7E-01	38	4E-02		
Lead	29	29	100%	4.9	49	25.2	49	--	80	NC	3E-01	--	78.8%	115	2E-01	1700	1E-02	110	2E-01		
Silver	20	30	67%	0.024	8	0.475	0.2	--	230	NC	2E-03	--	0.5%	560	8E-04	--	NC	119	4E-03		
Zinc	29	29	100%	43	215	148.6	215	--	22800	NC	7E-03	--	1.6%	283	5E-01	355	4E-01	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*				1E+00		2E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	18	94%	0.0137	0.219	0.1320	0.193	5.295	--	2E-06	NC	100.0%	--	20.8	6E-03						
Total Radionuclide Risk										2E-06		Sum of Fractions				6E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										4E-06											
Cleanup to AOC LUT Values Alternative Total Hazard Index										4E-01											

Notes:

% Percent
BTV/ Background Threshold Value

Table B1-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to AOC LUT Values Alternative

Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	16	28	57%	0.000175	0.074	0.01716	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05		
Total TEQ_BAP	22	28	79%	0.00000048	0.09661	0.0222	0.00447	0.0387	--	6E-07	NC	--	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	24	24	100%	2.08E-08	0.00002482	0.0000	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	--	100.0%	--	NC	--	NC	0.000005	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index				1E-02		1E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	24	26	92%	0.00723	0.993	0.445	0.193	5.295	--	8E-06	NC	100.00%	--	20.8	2E-02						
Total Radionuclide Risk										8E-06		Sum of Fractions				2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05											
No Action Alternative Total Hazard Index												1E-01									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk											
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**							
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient						
Benzo(a)pyrene	16	28	57%	0.000175	0.035	0.0093	0.00447	0.0387	--	2E-07	NC	--	--	1.5	6E-03	18	5E-04	310	3E-05						
Total TEQ_BAP	22	28	79%	4.80E-07	0.04456	0.0117	0.00447	0.0387	--	3E-07	NC	29.6%	--	--	NC	--	NC	--	NC						
Total TEQ_Dioxin	24	24	100%	2.08E-08	8.14E-06	3.44E-06	9.12E-07	4.81E-06	5.05E-05	7E-07	7E-02	70.4%	100.0%	--	NC	--	NC	0.000005	7E-01						
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06		Hazard Index*								6E-03		5E-04		7E-01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)											
Cesium-137	24	26	92%	0.00723	0.193	0.117	0.193	5.295	--	2E-06	NC	100%	--	20.8	6E-03										
Total Radionuclide Risk										2E-06		Sum of Fractions								6E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										3E-06															
Cleanup to AOC LUT Values Alternative Total Hazard Index												7E-02													

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

Table B1-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to AOC LUT Values Alternative

TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.567	0.57	0.00447	0.0387	--	1E-05	NC	--	--	1.5	4E-01	18	3E-02	310	2E-03
Total TEQ_ BAP	8	11	73%	0.0000068	0.9	0.9	0.00447	0.0387	--	2E-05	NC	100.0%	--	--	NC	--	NC	--	NC
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		4E-01		3E-02		2E-03	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01				
Total Radionuclide Risk										5E-05		Sum of Fractions		1E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										8E-05									
No Action Alternative Total Hazard Index										0E+00									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.0082	0.0050	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05
Total TEQ_BAP	8	11	73%	0.0000068	0.01503	0.0063	0.00447	0.0387	--	2E-07	NC	100.0%	--	--	NC	--	NC	--	NC
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-07		Hazard Index*		3E-03		3E-04		2E-05	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01				
Total Radionuclide Risk										5E-05		Sum of Fractions		1E-01					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										5E-05									
Cleanup to AOC LUT Values Alternative Total Hazard Index										0E+00									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans

TRV

Toxicity Reference Value

Table B1-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to AOC LUT Values Alternative

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00760	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	1.5%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	1.90E-06	0.0422	0.00890	0.00447	0.0387	--	2E-07	NC	0.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	4.25E-04	1.16E-04	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	99.1%	97.6%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05	Hazard Index 4E-01 8E-01 2E+01								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	5.30	--	1E-05	NC	99.64%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.36%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	1.7	0.397	0.86	--	26.4	NC	2E-02	--	14.0%	5	8E-02	78	5E-03	2	2E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.012	0.00380	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	32.2%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	0.0000019	0.0180	0.00391	0.00447	0.0387	--	1E-07	NC	14.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	7.02E-06	2.91E-06	9.12E-07	4.81E-06	5.05E-05	6E-07	6E-02	85.7%	53.8%	--	NC	--	NC	5.00E-06	6E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07	Hazard Index* 3E-01 8E-01 1E+00								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	1.41	0.697	0.193	5.295	--	1E-05	NC	99.66%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.34%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
Cleanup to AOC LUT Values Alternative Total Cancer Risk										1E-05									
Cleanup to AOC LUT Values Alternative Total Hazard Index										1E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

Table B1-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to AOC LUT Values Alternative

LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	2.2	0.318	0.017	0.232	1.1	1E-06	3E-01	8.0%	12.0%	40	8E-03	500	6E-04	0.39	8E-01
Aroclor 5460	13	38	34%	0.015	0.99	0.0658	0.05	0.232	1.1	3E-07	6E-02	1.7%	2.5%	40	2E-03	500	1E-04	0.39	2E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.9	0.125	0.00447	0.0387	--	3E-06	NC	--	--	1.5	8E-02	18	7E-03	310	4E-04
Cadmium	42	45	93%	0.074	3.97	1.33	0.7	844	4.6	2E-09	3E-01	0.0%	11.9%	32	4E-02	140	9E-03	0.81	2E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	3.1	1.54	2	1.29	234	1E-06	7E-03	7.0%	0.3%	30	5E-02	2	8E-01	38	4E-02
Lead	48	48	100%	3.5	188	51.7	49	--	80	NC	6E-01	--	26.7%	115	4E-01	1700	3E-02	39	1E+00
MCPA	2	12	17%	1.2	2.1	1.94	0.761	--	34.3	NC	6E-02	--	2.3%	--	NC	--	NC	0.61	3E+00
Mercury	36	48	75%	0.006	23	2.63	0.13	--	16.8	NC	2E-01	--	6.5%	0.3	9E+00	0.1	3E+01	1.7	2E+00
Total TEQ_BAP	28	44	64%	4.50E-07	1.35	0.182	0.00447	0.0387	--	5E-06	NC	27.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.85E-04	4.63E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	9E-01	56.0%	37.9%	--	NC	--	NC	5.00E-06	9E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		9E+00		3E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	5.295	--	9E-06	NC	100.0%	--	20.8	2E-02				
Total Radionuclide Risk										9E-06		Sum of Fractions		2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index										2E+00									

Table B1-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	1.4	0.210	0.017	0.232	1.1	9E-07	2E-01	17.1%	21.2%	40	5E-03	500	4E-04	0.39	5E-01
Aroclor 5460	13	38	34%	0.015	0.069	0.041	0.05	0.232	1.1	2E-07	4E-02	3.3%	4.1%	40	1E-03	500	8E-05	0.39	1E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.22	0.0358	0.00447	0.0387	--	9E-07	NC	--	--	1.5	2E-02	18	2E-03	310	1E-04
Cadmium	42	45	93%	0.074	2	0.86	0.7	844	4.6	1E-09	2E-01	0.0%	20.8%	32	3E-02	140	6E-03	0.81	1E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	2.9	1.18	2	1.29	234	9E-07	5E-03	17.4%	0.6%	30	4E-02	2	6E-01	38	3E-02
Lead	48	48	100%	3.5	68.5	27.5	49	--	80	NC	3E-01	--	38.2%	115	2E-01	1700	2E-02	39	7E-01
MCPA	2	12	17%	1.2	1.2	0.91	0.761	--	34.3	NC	3E-02	--	3.0%	--	NC	--	NC	0.61	1E+00
Mercury	36	48	75%	0.006	0.53	0.09	0.13	--	16.8	NC	5E-03	--	0.6%	0.3	3E-01	0.1	9E-01	1.7	5E-02
Total TEQ_BAP	28	44	64%	0.00000045	0.289	0.0849	0.00447	0.0387	--	2E-06	NC	41.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.46E-05	5.21E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	20.5%	11.5%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06		Hazard Index*		6E-01		2E+00		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.513	0.193	5.295	--	1E-05	NC	100.00%	--	20.8	2E-02				
Total Radionuclide Risk										1E-05		Sum of Fractions		2E-02					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										1E-05									
Cleanup to AOC LUT Values Alternative Total Hazard Index										9E-01									

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

HH Human Health

LUT Look-Up Table

NC Not Calculated

PRG Preliminary Remediation Goal

RBSL Risk Based Screening Level

Rec-Eco Recreational-Ecological

TEQ_BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin Total Toxicity Equivalence Factor for dioxins/furans

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	2.9	0.111	0.017	0.232	1.1	5E-07	1E-01	2.8%	5.7%	40	3E-03	500	2E-04	0.39	3E-01
Benzo(a)pyrene	36	62	58%	0.00056	1.8	0.0559	0.00447	0.0387	--	1E-06	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04
Cadmium	59	60	98%	0.096	2.39	0.666	0.7	844	4.6	8E-10	1E-01	0.0%	8.2%	32	2E-02	140	5E-03	0.81	8E-01
Lead	59	60	98%	3.9	210	40.5	49	--	80	NC	5E-01	--	28.5%	115	4E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.91	0.591	0.761	--	34.3	NC	2E-02	--	1.0%	--	NC	--	NC	0.61	1E+00
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	380	NC	2E-03	--	0.1%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	2.68	0.241	0.00447	0.0387	--	6E-06	NC	36.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	0.000000048	3.94E-04	5.03E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	60.9%	56.1%	--	NC	--	NC	5.00E-06	1E+01
Zinc	60	60	100%	15	616	180	215	--	22800	NC	8E-03	--	0.4%	160	1E+00	120	2E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		3E+00		2E+00		1E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	0.11	0.0206	0.017	0.232	1.1	9E-08	2E-02	4.2%	3.1%	40	5E-04	500	4E-05	0.39	5E-02
Benzo(a)pyrene	36	62	58%	0.00056	0.09	0.0139	0.00447	0.0387	--	4E-07	NC	17.1%	--	1.5	9E-03	18	8E-04	310	4E-05
Cadmium	59	60	98%	0.096	1.7	0.418	0.7	844	4.6	5E-10	9E-02	0.0%	15.0%	32	1E-02	140	3E-03	0.81	5E-01
Lead	59	60	98%	3.9	97.2	29.2	49	--	80	NC	4E-01	--	60.1%	115	3E-01	1700	2E-02	39	7E-01
MCPA	8	17	47%	0.19	0.761	0.508	0.761	--	34.3	NC	1E-02	--	2.4%	--	NC	--	NC	0.61	8E-01
Selenium	39	60	65%	0.0667	1	0.623	1	--	380	NC	2E-03	--	0.3%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	0.128	0.0335	0.00447	0.0387	--	9E-07	NC	41.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	4.80E-08	2.95E-05	5.52E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	54.6%	18.0%	--	NC	--	NC	5.00E-06	1E+00
Zinc	60	60	100%	15	616	1.52E+02	215	--	22800	NC	7E-03	--	1.1%	160	9E-01	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*		2E+00		1E+00		4E+00	
Cleanup to AOC LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index										6E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PPG

Preliminary Remediation Goal



Table B1-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to AOC LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.27	0.0977	0.00447	0.0387	--	3E-06	NC	--	--	1.5	7E-02	18	5E-03	310	3E-04
Cadmium	22	22	100%	0.264	0.87	0.648	0.7	844	4.6	8E-10	1E-01	0.01%	14.4%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.21	0.761	--	34.3	NC	4E-02	--	3.6%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	35.4	10.9	0.13	--	16.8	NC	7E-01	--	66.6%	0.3	4E+01	0.1	1E+02	1.7	6E+00
Total TEQ_BAP	21	22	95%	4.30E-07	0.410	0.143	0.00447	0.0387	--	4E-06	NC	70.0%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	1.95E-05	7.58E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	30.0%	15.4%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06		Hazard Index							
												4E+01		1E+02		1E+01			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100.00%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08		Sum of Fractions							
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										5E-06									
No Action Alternative Total Hazard Index												1E+00							

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.00447	0.0045	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	22	22	100%	0.264	0.7	0.615	0.7	844	4.6	7E-10	1E-01	0.2%	73.8%	32	2E-02	140	4E-03	0.81	8E-01
MCPA	13	19	68%	0.11	0.761	0.76	0.761	--	34.3	NC	2E-02	--	12.2%	--	NC	--	NC	0.61	1E+00
Mercury	18	22	82%	0.0048	0.13	0.1	0.13	--	16.8	NC	7E-03	--	4.0%	0.3	4E-01	0.1	1E+00	1.7	7E-02
Total TEQ_BAP	21	22	95%	4.30E-07	0.004	0.004	0.00447	0.0387	--	1E-07	NC	37.8%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	9.12E-07	9.12E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	62.0%	10.0%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07		Hazard Index*							
												4E-01		1E+00		2E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08		Sum of Fractions							
Cleanup to AOC LUT Values Alternative Total Cancer Risk										4E-07									
Cleanup to AOC LUT Values Alternative Total Hazard Index												2E-01							

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table



Table B1-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to AOC LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B1-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	8.25	1.35	2	--	26.4	NC	5E-02	--	0.5%	5	3E-01	78	2E-02	2	7E-01
Aroclor 1254	7	28	25%	0.0095	1.8	0.398	0.017	0.232	1.1	2E-06	4E-01	16.8%	3.5%	40	1E-02	500	8E-04	0.39	1E+00
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.232	1.1	5E-08	1E-02	0.5%	0.1%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	1.3	0.502	0.05	0.232	1.1	2E-06	5E-01	21.1%	4.5%	40	1E-02	500	1E-03	0.39	1E+00
Benzo(a)pyrene	11	28	39%	0.00033	0.21	0.0478	0.00447	0.0387	--	1E-06	NC	--	--	1.5	3E-02	18	3E-03	310	2E-04
Cadmium	26	28	93%	0.058	3.41	0.787	0.7	844	4.6	9E-10	2E-01	0.0%	1.7%	32	2E-02	140	6E-03	0.81	1E+00
Lead	27	28	96%	3.2	3080	681	49	--	80	NC	9E+00	--	83.1%	115	6E+00	1700	4E-01	39	2E+01
Mercury	21	28	75%	0.008	24.3	6.72	0.13	--	16.8	NC	4E-01	--	3.9%	0.3	2E+01	0.1	7E+01	1.7	4E+00
Total TEQ_BAP	20	28	71%	8.10E-06	3.06E-01	1.36E-01	4.47E-03	3.87E-02	--	4E-06	NC	34.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	4.00E-05	1.35E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	3E-01	27.5%	2.6%	--	NC	--	NC	5.00E-06	3E+00
Zinc	28	28	100%	34	1060	266	215	--	22800	NC	1E-02	--	0.1%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-05		Hazard Index		3E+01		7E+01		3E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index										1E+01									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	0.86	0.444	2	--	26.4	NC	2E-02	--	3.2%	5	9E-02	78	6E-03	2	2E-01
Aroclor 1254	7	28	25%	0.0095	0.022	0.0122	0.017	0.232	1.1	5E-08	1E-02	9.9%	2.1%	40	3E-04	500	2E-05	0.39	3E-02
Aroclor 1260	3	28	11%	0.00895	0.027	0.0087	0.017	0.232	1.1	4E-08	8E-03	7.1%	1.5%	40	2E-04	500	2E-05	0.25	3E-02
Aroclor 5460	6	20	30%	0.0025	0.05	0.0192	0.05	0.232	1.1	8E-08	2E-02	15.6%	3.3%	40	5E-04	500	4E-05	0.39	5E-02
Benzo(a)pyrene	11	28	39%	0.00033	0.0059	0.00284	0.00447	0.0387	--	7E-08	NC	--	--	1.5	2E-03	18	2E-04	310	9E-06
Cadmium	26	28	93%	0.058	0.7	0.443	0.7	844	4.6	5E-10	1E-01	0.1%	18.3%	32	1E-02	140	3E-03	0.81	5E-01
Lead	27	28	96%	3.2	49	27.3	49	--	80	NC	3E-01	--	64.8%	115	2E-01	1700	2E-02	39	7E-01
Mercury	21	28	75%	0.008	0.357	0.144	0.13	--	16.8	NC	9E-03	--	1.6%	0.3	5E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	20	28	71%	8.10E-06	4.47E-03	4.47E-03	4.47E-03	3.87E-02	--	1E-07	NC	21.8%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	1.98E-06	1.16E-06	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	45.5%	4.4%	--	NC	--	NC	5.00E-06	2E-01
Zinc	28	28	100%	34	215	94.8	215	--	22800	NC	4E-03	--	0.8%	160	6E-01	120	8E-01	411	2E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										5E-07		Hazard Index*		1E+00		2E+00		2E+00	
Cleanup to AOC LUT Values Alternative Total Cancer Risk										5E-07									
Cleanup to AOC LUT Values Alternative Total Hazard Index										5E-01									

Notes:

- %
- Percent
- BTV
- Background Threshold Value
- Conc.
- Concentration

Table B1-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to AOC LUT Values Alternative

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)
All radionuclide activities are in picocuries per gram (pCi/g)
No radionuclides were evaluated for this exposure area because no radionuclides exceeded Field Action Levels.

Table B1-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	1.9	0.584	0.7	844	4.6	7E-10	1E-01	0.01%	18.9%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	2	15	13%	0.76	1	0.94	0.761	--	34.3	NC	3E-02	--	4.1%	--	NC	--	NC	0.61	2E+00
Mercury	40	43	93%	0.0059	2.2	0.0933	0.13	--	16.8	NC	6E-03	--	0.8%	0.3	3E-01	0.1	9E-01	1.7	5E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.16E-04	2.43E-05	9.12E-07	4.81E-06	5.05E-05	5E-06	5E-01	99.99%	71.7%	--	NC	--	NC	5.00E-06	5E+00
Zinc	41	41	100%	45	4630	685	215	--	22800	NC	3E-02	--	4.5%	160	4E+00	120	6E+00	411	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											5E+00		7E+00		9E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.3%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										7E-06									
No Action Alternative Total Hazard Index											7E-01								

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	0.84	0.389	0.7	844	4.6	5E-10	8E-02	0.07%	47.2%	32	1E-02	140	3E-03	0.81	5E-01
MCPA	2	15	13%	0.76	1	0.84	0.761	--	34.3	NC	2E-02	--	13.7%	--	NC	--	NC	0.61	1E+00
Mercury	40	43	93%	0.0059	0.13	0.0567	0.13	--	16.8	NC	3E-03	--	1.9%	0.3	2E-01	0.1	6E-01	1.7	3E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.45E-05	3.14E-06	9.12E-07	4.81E-06	5.05E-05	7E-07	6E-02	99.93%	34.7%	--	NC	--	NC	5.00E-06	6E-01
Zinc	41	41	100%	45	215	105	215	--	22800	NC	5E-03	--	2.6%	160	7E-01	120	9E-01	411	3E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07	Hazard Index*								
											9E-01		1E+00		3E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.35%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
Cleanup to AOC LUT Values Alternative Total Cancer Risk										3E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index											2E-01								

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B1-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to AOC LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B1-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	3	25	12%	0.0032	1.9	0.237	0.017	0.232	1.1	1E-06	2E-01	7.0%	7.4%	40	6E-03	500	5E-04	0.39	6E-01		
Aroclor 5460	6	19	32%	0.0021	4.2	2.568	0.05	0.232	1.1	1E-05	2E+00	75.5%	80.2%	40	6E-02	500	5E-03	0.39	7E+00		
Cadmium	21	22	95%	0.088	1.43	0.545	0.7	844	4.6	6E-10	1E-01	0.00%	4.1%	32	2E-02	140	4E-03	0.81	7E-01		
Total TEQ_Dioxin	14	14	100%	3.30E-07	2.26E-05	1.23E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	17.5%	8.4%	--	NC	--	NC	5.00E-06	2E+00		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-05		Hazard Index				9E-02		1E-02		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02						
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.07%	--	6110	3E-06						
Total Radionuclide Risk										2E-05		Sum of Fractions				4E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05											
No Action Alternative Total Hazard Index										3E+00											

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	3	25	12%	0.0032	0.017	0.009256	0.017	0.232	1.1	4E-08	8E-03	3.9%	4.0%	40	2E-04	500	2E-05	0.39	2E-02		
Aroclor 5460	6	19	32%	0.0021	0.05	0.0229	0.05	0.232	1.1	1E-07	2E-02	9.6%	9.8%	40	6E-04	500	5E-05	0.39	6E-02		
Cadmium	21	22	95%	0.088	0.86	0.451	0.7	844	4.6	5E-10	1E-01	0.05%	46.4%	32	1E-02	140	3E-03	0.81	6E-01		
Total TEQ_Dioxin	14	14	100%	3.30E-07	8.47E-06	4.26E-06	9.12E-07	4.81E-06	5.05E-05	9E-07	8E-02	86.4%	39.8%	--	NC	--	NC	5.00E-06	9E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*				1E-02		3E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	15	15	100%	0.017	2.45	0.85	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02						
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.08%	--	6110	3E-06						
Total Radionuclide Risk										2E-05		Sum of Fractions				4E-02					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										2E-05											
Cleanup to AOC LUT Values Alternative Total Hazard Index												2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B1-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to AOC LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B1-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk										
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**						
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient					
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.232	1.1	1E-06	3E-01	32.9%	37.7%	40	8E-03	500	7E-04	0.39	8E-01					
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.232	1.1	7E-08	2E-02	1.7%	1.9%	40	4E-04	500	3E-05	0.25	7E-02					
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.232	1.1	1E-06	2E-01	25.1%	28.8%	40	6E-03	500	5E-04	0.39	6E-01					
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	844	4.6	5E-10	9E-02	0.01%	10.7%	32	1E-02	140	3E-03	0.81	5E-01					
Total TEQ_Dioxin	28	28	100%	2.27E-08	5.04E-05	8.37E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	40.4%	20.9%	--	NC	--	NC	5.00E-06	2E+00					
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-06	Hazard Index									3E-02	4E-03		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)										
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	5.295	--	1E-05	NC	99.46%	--	20.8	3E-02									
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.54%	--	22.5	1E-02									
Total Radionuclide Risk										1E-05	Sum of Fractions									4E-02				
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05														
No Action Alternative Total Hazard Index										8E-01														

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	43	63%	0.00039	1.3	0.236	0.017	0.232	1.1	1E-06	2E-01	30.2%	30.9%	40	6E-03	500	5E-04	0.39	6E-01
Aroclor 1260	21	43	49%	0.0021	0.28	0.0149	0.017	0.232	1.1	6E-08	1E-02	1.9%	2.0%	40	4E-04	500	3E-05	0.25	6E-02
Aroclor 5460	23	28	82%	0.0021	0.91	0.296	0.05	0.232	1.1	1E-06	3E-01	38.0%	38.8%	40	7E-03	500	6E-04	0.39	8E-01
Cadmium	46	47	98%	0.078	1.47	0.468	0.7	844	4.6	6E-10	1E-01	0.02%	14.7%	32	1E-02	140	3E-03	0.81	6E-01
Total TEQ_Dioxin	28	28	100%	2.27E-08	1.39E-05	4.82E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	29.8%	13.7%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-06	Hazard Index* 3E-02 4E-03 3E+00								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	40	40	100%	0.0628	1.45	0.545	0.193	5.295	--	1E-05	NC	99.33%	--	20.8	3E-02				
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.67%	--	22.5	1E-02				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
Cleanup to AOC LUT Values Alternative Total Cancer Risk										1E-05									
Cleanup to AOC LUT Values Alternative Total Hazard Index										7E-01									

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B1-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to AOC LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B1-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	26	31	84%	0.136	14.5	3.58	0.86	--	26.4	NC	1E-01	--	7.0%	5	7E-01	78	5E-02	2	2E+00		
Benzo(a)pyrene	16	34	47%	0.0015	2.08	0.353	0.00447	0.0387	--	9E-06	NC	--	--	1.5	2E-01	18	2E-02	310	1E-03		
Cadmium	31	31	100%	0.03	2.78	0.534	0.7	844	4.6	6E-10	1E-01	0.0%	6.0%	32	2E-02	140	4E-03	0.81	7E-01		
Chromium (Hexavalent)	6	14	43%	0.48	7.1	6.30	2	1.29	234	5E-06	3E-02	26.0%	1.4%	30	2E-01	2	3E+00	38	2E-01		
Lead	34	34	100%	0.24	514	128	49	--	80	NC	2E+00	--	82.0%	115	1E+00	1700	8E-02	39	3E+00		
Total TEQ_BAP	20	34	59%	1.11E-04	2.611	0.508	0.00447	0.0387	--	1E-05	NC	69.9%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	16	16	100%	1.14E-08	8.63E-06	3.65E-06	9.12E-07	4.81E-06	5.05E-05	8E-07	7E-02	4.0%	3.7%	--	NC	--	NC	5.00E-06	7E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05				Hazard Index		2E+00		3E+00		7E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03						
Total Radionuclide Risk										2E-08				Sum of Fractions		3E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05											
No Action Alternative Total Hazard Index										2E+00											

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	26	31	84%	0.136	0.86	0.51	0.86	--	26.4	NC	2E-02	--	4.5%	5	1E-01	78	7E-03	2	3E-01
Benzo(a)pyrene	16	34	47%	0.0015	0.00447	0.0042	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	31	31	100%	0.03	0.7	0.363	0.7	844	4.6	4E-10	8E-02	0.0%	18.1%	32	1E-02	140	3E-03	0.81	4E-01
Chromium (Hexavalent)	6	14	43%	0.48	2	1.25	2	1.29	234	1E-06	5E-03	76.0%	1.2%	30	4E-02	2	6E-01	38	3E-02
Lead	34	34	100%	0.24	49	25.1	49	--	80	NC	3E-01	--	72.0%	115	2E-01	1700	1E-02	39	6E-01
Total TEQ_BAP	20	34	59%	0.000111	0.004	0.0045	0.00447	0.0387	--	1E-07	NC	9.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	16	16	100%	1.14E-08	9.12E-07	9.12E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	14.9%	4.1%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*		4E-01		6E-01		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03				
Total Radionuclide Risk										2E-08		Sum of Fractions		3E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										1E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index										4E-01									

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Table B1-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to AOC LUT Values Alternative

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	1.5	0.280	0.017	0.232	1.1	1E-06	3E-01	8.0%	8.5%	40	7E-03	500	6E-04	0.39	7E-01
Aroclor 5460	6	20	30%	0.0016	5.1	2.97	0.05	0.232	1.1	1E-05	3E+00	85.1%	90.2%	40	7E-02	500	6E-03	0.39	8E+00
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0387	--	6E-07	NC	4.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	8.93E-06	2.01E-06	9.12E-07	4.81E-06	5.05E-05	4E-07	4E-02	2.8%	1.3%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index							
												9E-02		7E-03		9E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.0%	--	22.5	5E-03				
Total Radionuclide Risk										3E-08		Sum of Fractions							
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index												3E+00							

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	0.038	0.0218	0.017	0.232	1.1	9E-08	2E-02	17.4%	39.0%	40	5E-04	500	4E-05	0.39	6E-02
Aroclor 5460	6	20	30%	0.0016	0.05	0.0155	0.05	0.232	1.1	7E-08	1E-02	12.3%	27.6%	40	4E-04	500	3E-05	0.39	4E-02
Benzo(a)pyrene	17	28	61%	0.00092	0.009	0.0045	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	1E-05
Total TEQ_BAP	23	28	82%	0.00000041	0.011	0.008	0.00447	0.0387	--	2E-07	NC	37.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	2.16E-06	8.57E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	32.9%	33.4%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-07		Hazard Index*							
												4E-03		3E-04		3E-01			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.00%	--	22.5	5E-03				
Total Radionuclide Risk										3E-08		Sum of Fractions							
Cleanup to AOC LUT Values Alternative Total Cancer Risk										6E-07									
Cleanup to AOC LUT Values Alternative Total Hazard Index												5E-02							

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B1-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to AOC LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	870	422	0.86	--	26.4	NC	2E+01	--	13.7%	5	8E+01	78	5E+00	2	2E+02
Benzo(a)pyrene	12	22	55%	0.00083	0.015	0.00790	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	3E-05
Cadmium	22	26	85%	0.103	1.36	1.02	0.7	844	4.6	1E-09	2E-01	0.03%	0.2%	32	3E-02	140	7E-03	0.81	1E+00
Lead	27	27	100%	7.4	27000	8033	49	--	80	NC	1E+02	--	85.8%	115	7E+01	1700	5E+00	39	2E+02
Total TEQ_BAP	19	22	86%	8.70E-07	0.0202	0.00887	0.00447	0.0387	--	2E-07	NC	5.04%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	2.82E-05	2.08E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	4E-01	94.93%	0.4%	--	NC	--	NC	5.00E-06	4E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06		Hazard Index		2E+02		1E+01		4E+02	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	94.87%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	360	--	7E-08	NC	5.13%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06		Sum of Fractions		1E+02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										6E-06									
No Action Alternative Total Hazard Index										1E+02									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	0.86	0.551	0.86	--	26.4	NC	2E-02	--	3.7%	5	1E-01	78	7E-03	2	3E-01
Benzo(a)pyrene	12	22	55%	0.00083	0.00447	0.00339	0.00447	0.0387	--	9E-08	NC	--	--	1.5	2E-03	18	2E-04	310	1E-05
Cadmium	22	26	85%	0.103	0.7	0.408	0.7	844	4.6	5E-10	9E-02	0.20%	15.8%	32	1E-02	140	3E-03	0.81	5E-01
Lead	27	27	100%	7.4	49	34.7	49	--	80	NC	4E-01	--	77.3%	115	3E-01	1700	2E-02	39	9E-01
Total TEQ_BAP	19	22	86%	8.70E-07	0.00447	0.00223	0.00447	0.0387	--	6E-08	NC	23.23%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	9.12E-07	9.12E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	76.57%	3.2%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-07		Hazard Index*		4E-01		3E-02		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	97.61%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	0.535	0.109	0.075	360	--	3E-08	NC	2.39%	--	22.5	5E-03				
Total Radionuclide Risk										1E-06		Sum of Fractions		8E-03					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index										6E-01									

Notes:

- %
- Percent
- BTV
- Background Threshold Value
- Conc.
- Concentration

Table B1-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to AOC LUT Values Alternative

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B1-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to AOC LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.00444	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	26	26	100%	0.307	1.32	0.641	0.7	844	4.6	8E-10	1E-01	0.004%	7.3%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	8	15	53%	0.29	1.4	1	0.761	--	34.3	NC	3E-02	--	1.5%	--	NC	--	NC	0.61	2E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.0262	0.00447	0.0387	--	7E-07	NC	3.548%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	1.87E-04	8.85E-05	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	96.45%	91.3%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		2E-02		5E-03		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to AOC LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.00447	0.00249	0.00447	0.0387	--	6E-08	NC	--	--	1.5	2E-03	18	1E-04	310	8E-06
Cadmium	26	26	100%	0.307	0.7	0.578	0.7	844	4.6	7E-10	1E-01	0.22%	76.7%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	8	15	53%	0.29	0.761	0.688	0.761	--	34.3	NC	2E-02	--	12.24%	--	NC	--	NC	0.61	1E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.004	0.00447	0.00447	0.0387	--	1E-07	NC	37.77%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	9.12E-07	9.12E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	62.0%	11.0%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07		Hazard Index*		2E-02		4E-03		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
Cleanup to AOC LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to AOC LUT Values Alternative Total Hazard Index										2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B1-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to AOC LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0528	0.017	0.232	1.1	2E-07	5E-02	0.3%	0.2%	40	1E-03	500	1E-04	0.25	2E-01
Benzo(a)pyrene	39	83	47%	0.00077	8.8	0.821	0.00447	0.0387	--	2E-05	NC	--	--	1.5	5E-01	18	5E-02	310	3E-03
Total TEQ_BAP	48	77	62%	0.000012	13.4	2.62	0.00447	0.0387	--	7E-05	NC	96.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	8.39E-05	1.22E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	3.6%	0.9%	--	NC	--	NC	5.00E-06	2E+00
Antimony	42	85	49%	0.078	1010	64.4	0.86	--	26.4	NC	2E+00	--	9.1%	5	1E+01	78	8E-01	2	3E+01
Cadmium	82	85	96%	0.038	5.01	0.736	0.7	844	4.6	9E-10	2E-01	0.001%	0.6%	32	2E-02	140	5E-03	0.81	9E-01
Lead	85	85	100%	2.6	30200	1916	49	--	80	NC	2E+01	--	89.2%	115	2E+01	1700	1E+00	39	5E+01
Phenanthrene	39	83	47%	0.00074	18	1.55	0.0039	--	16400	NC	9E-05	--	0.0004%	1.2	1E+00	29	5E-02	356	4E-03
Zinc	86	86	100%	35.3	1300	241	215	--	22800	NC	1E-02	--	0.04%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-05		Hazard Index		3E+01		4E+00		9E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.0097	0.0264	0.00427	0.00556	1.157	--	4E-07	NC	1.35%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	6.59	1.39	0.193	5.295	--	3E-05	NC	96.17%	--	20.8	7E-02				
Strontium-90	28	44	64%	0.138	14.3	2.44	0.075	360	--	7E-07	NC	2.48%	--	22.5	1E-01				
Total Radionuclide Risk										3E-05		Sum of Fractions		2E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-04									
No Action Alternative Total Hazard Index										3E+01									

Table B2-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1260	42	71	59%	0.00082	0.0555	0.0090	0.017	0.232	1.1	4E-08	8E-03	9.6%	2.4%	40	2E-04	500	2E-05	0.25	4E-02		
Benzo(a)pyrene	39	83	47%	0.00077	0.00447	0.004	0.00447	0.0387	--	9E-08	NC	--	--	1.5	2E-03	18	2E-04	310	1E-05		
Total TEQ_BAP	48	77	62%	0.000012	0.0	0.00	0.00447	0.0387	--	1E-07	NC	27.8%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	54	54	100%	1.37E-09	4.30E-06	1.22E-06	9.12E-07	5E-06	5E-05	3E-07	2E-02	62.5%	6.9%	--	NC	--	NC	5.00E-06	2E-01		
Antimony	42	85	49%	0.078	1.8	0.4	0.86	--	26.4	NC	2E-02	--	4.7%	5	9E-02	78	6E-03	2	2E-01		
Cadmium	82	85	96%	0.038	0.7	0.314	0.7	844	4.6	4E-10	7E-02	0.1%	19.6%	32	1E-02	140	2E-03	0.81	4E-01		
Lead	85	85	100%	2.6	49	18.22	49	--	80	NC	2E-01	--	65.2%	115	2E-01	1700	1E-02	39	5E-01		
Phenanthrene	39	83	47%	0.00074	0.0054	0.00	0.0039	--	16400	NC	2E-07	--	0.0%	1.2	2E-03	29	1E-04	356	8E-06		
Zinc	86	86	100%	35.3	215	94	215	--	22800	NC	4E-03	--	1.2%	160	6E-01	120	8E-01	411	2E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										4E-07				Hazard Index*		8E-01		8E-01		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cobalt-60	5	47	11%	0.00556	0.0264	0.0043	0.00556	1.157	--	4E-07	NC	8.76%	--	692	6E-06						
Cesium-137	47	47	100%	0.0196	0.223	0.199	0.193	5.295	--	4E-06	NC	89.2%	--	20.8	1E-02						
Strontium-90	28	44	64%	0.075	0.996	0.31	0.075	360	--	9E-08	NC	2.07%	--	22.5	1E-02						
Total Radionuclide Risk										4E-06				Sum of Fractions		2E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										5E-06											
Cleanup to Revised LUT Values Alternative Total Hazard Index										3E-01											

Notes:

- %

Percent
- BTV

Background Threshold Value
- Conc.

Concentration
- Eco

Ecological
- HH

Human Health
- LUT

Look-Up Table
- NC

Not Calculated
- PRG

Preliminary Remediation Goal
- RBSL

Risk Based Screening Level
- Rec-Eco

Recreational-Ecological
- TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
- TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans
- TRV

Toxicity Reference Value
- *

The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
- **

The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)
All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	2.60E+01	50	52%	0.00326	2.6	0.0668	0.017	0.232	1.1	3E-07	6E-02	0.9%	2.6%	40	2E-03	500	1E-04	0.39	2E-01		
Aroclor 5460	29	36	81%	0.0012	3.3	0.562	0.05	0.232	1.1	2E-06	5E-01	7.8%	21.6%	40	1E-02	500	1E-03	0.39	1E+00		
Total TEQ_ BAP	38	49	78%	0.00022	1.49	0.599	0.00447	0.0387	--	2E-05	NC	50.0%	--	--	NC	--	NC	--	NC		
Total TEQ_ Dioxin	31	31	100%	1.87E-07	2.01E-04	5.40E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	36.2%	45.2%	--	NC	--	NC	0.000005	1E+01		
Benzo(a)anthracene	31	49	63%	0.000271	1	0.269	0.00447	0.387	--	7E-07	NC	--	--	1.5	2E-01	18	1E-02	50	5E-03		
Benzo(a)pyrene	31	49	63%	0.000249	0.93	0.285	0.00447	0.0387	--	7E-06	NC	--	--	1.5	2E-01	18	2E-02	310	9E-04		
Benzo(b)fluoranthene	36	49	73%	0.000494	1.5	0.457	0.00447	0.387	--	1E-06	NC	--	--	1.2	4E-01	18	3E-02	150	3E-03		
Benzo(k)fluoranthene	18	38	47%	0.00061	0.63	0.231	0.00447	0.387	--	6E-07	NC	--	--	1.2	2E-01	18	1E-02	310	7E-04		
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.18	0.0306	0.00447	0.113	--	3E-07	NC	--	--	1.2	3E-02	18	2E-03	140	2E-04		
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.65	0.178	0.00447	0.387	--	5E-07	NC	--	--	1.2	1E-01	18	1E-02	300	6E-04		
Chromium (Hexavalent)	13	22	59%	0.32	4.8	2.00	2	1.29	234	2E-06	9E-03	5.0%	0.4%	30	7E-02	2	1E+00	38	5E-02		
Lead	53	53	100%	2.9	78.3	16.4	49	--	80	NC	2E-01	--	8.7%	115	1E-01	1700	1E-02	39	4E-01		
Mercury	53	65	82%	0.0073	35	4.61	0.13	--	16.8	NC	3E-01	--	11.6%	0.3	2E+01	0.1	5E+01	1.7	3E+00		
Antimony	25	49	51%	0.014	3.22	0.619	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01		
Cadmium	50	50	100%	0.097	2.39	0.888	0.7	844	4.6	1E-09	2E-01	0.0%	8.2%	32	3E-02	140	6E-03	0.81	1E+00		
Molybdenum	49	50	98%	0.19	23.2	3.22	3.2	--	380	NC	8E-03	--	0.4%	2	2E+00	--	NC	2.6	1E+00		
Zinc	50	50	100%	35	796	228	215	--	22800	NC	1E-02	--	0.4%	160	1E+00	120	2E+00	411	6E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-05				Hazard Index		2E+01		5E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cobalt-60	5	46	11%	0.00668	0.048	0.0023	0.00556	1.157	--	2E-07	NC	0.14%	--	692	3E-06						
Cesium-137	42	46	91%	0.0105	46.4	7.32	0.193	5.295	--	1E-04	NC	99.5%	--	20.8	4E-01						
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	152.7	--	9E-09	NC	0.01%	--	6110	2E-06						
Strontium-90	17	40	43%	0.077	21.3	1.95	0.075	360	--	5E-07	NC	0.39%	--	22.5	9E-02						
Total Radionuclide Risk										1E-04				Sum of Fractions		4E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-04											
No Action Alternative Total Hazard Index										2E+00											

Table B2-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	26	50	52%	0.00326	0.072	0.0175	0.017	0.232	1.1	8E-08	2E-02	2.5%	3.1%	40	4E-04	500	3E-05	0.39	4E-02
Aroclor 5460	29	36	81%	0.0012	0.226	0.0568	0.05	0.232	1.1	2E-07	5E-02	8.2%	9.9%	40	1E-03	500	1E-04	0.39	1E-01
Total TEQ_ BAP	38	49	78%	0.00022	0.04141	0.0138	0.00447	0.0387	--	4E-07	NC	11.9%	--	--	NC	--	NC	--	NC
Total TEQ_ Dioxin	31	31	100%	0.000000187	0.00002541	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	40.5%	22.2%	--	NC	--	NC	0.000005	1E+00
Benzo(a)anthracene	31	49	63%	0.000271	0.022	0.0067	0.00447	0.387	--	2E-08	NC	--	--	1.5	4E-03	18	4E-04	50	1E-04
Benzo(a)pyrene	31	49	63%	0.000249	0.032	0.0079	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	3E-05
Benzo(b)fluoranthene	36	49	73%	0.000494	0.044	0.0101	0.00447	0.387	--	3E-08	NC	--	--	1.2	8E-03	18	6E-04	150	7E-05
Benzo(k)fluoranthene	18	38	47%	0.00061	0.0097	0.0057	0.00447	0.387	--	1E-08	NC	--	--	1.2	5E-03	18	3E-04	310	2E-05
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.00462	0.0042	0.00447	0.113	--	4E-08	NC	--	--	1.2	4E-03	18	2E-04	140	3E-05
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.017	0.0059	0.00447	0.387	--	2E-08	NC	--	--	1.2	5E-03	18	3E-04	300	2E-05
Chromium (Hexavalent)	13	22	59%	0.32	3	1.4260	2	1.29	234	1E-06	6E-03	36.9%	1.2%	30	5E-02	2	7E-01	38	4E-02
Lead	53	53	100%	2.9	49	15.5600	49	--	80	NC	2E-01	--	37.5%	115	1E-01	1700	9E-03	39	4E-01
Mercury	53	65	82%	0.0073	0.24	0.1160	0.13	--	16.8	NC	7E-03	--	1.3%	0.3	4E-01	0.1	1E+00	1.7	7E-02
Antimony	25	49	51%	0.014	1.52	0.4200	0.86	--	26.4	NC	2E-02	--	3.1%	5	8E-02	78	5E-03	2	2E-01
Cadmium	50	50	100%	0.097	2.2	0.4790	0.7	844	4.6	6E-10	1E-01	0.0%	20.1%	32	1E-02	140	3E-03	0.81	6E-01
Molybdenum	49	50	98%	0.19	3.2	0.8630	3.2	--	380	NC	2E-03	--	0.4%	2	4E-01	--	NC	2.6	3E-01
Zinc	50	50	100%	35	398	146.1000	215	--	22800	NC	6E-03	--	1.2%	160	9E-01	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-06		Hazard Index*		2E+00		3E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	46	11%	0.00668	0.0114	0.0028	0.00556	1.157	--	2E-07	NC	4.38%	--	692	4E-06				
Cesium-137	42	46	91%	0.0105	1.02	0.2770	0.193	5.295	--	5E-06	NC	94.4%	--	20.8	1E-02				
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	152.7	--	9E-09	NC	0.16%	--	6110	2E-06				
Strontium-90	17	40	43%	0.077	0.981	0.2150	0.075	360	--	6E-08	NC	1.08%	--	22.5	1E-02				
Total Radionuclide Risk										6E-06		Sum of Fractions		2E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										9E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index										5E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_ BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_ Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value

Table B2-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Cleanup to Revised LUT Values Alternative

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0290	0.017	0.232	1.1	1E-07	3E-02	0.0%	1.5%	40	7E-04	500	6E-05	0.064	5E-01		
Benzo(a)pyrene	49	53	92%	0.0012	31	6.20	0.00447	0.0387	--	2E-04	NC	--	--	1.5	4E+00	18	3E-01	310	2E-02		
Benzo(a)anthracene	46	53	87%	0.0006	16	1.86	0.00447	0.387	--	5E-06	NC	--	--	1.5	1E+00	18	1E-01	50	4E-02		
Benzo(b)fluoranthene	50	53	94%	0.00022	26	5.77	0.00447	0.387	--	1E-05	NC	--	--	1.2	5E+00	18	3E-01	150	4E-02		
Benzo(k)fluoranthene	33	43	77%	0.001	15	3.84	0.00447	0.387	--	1E-05	NC	--	--	1.2	3E+00	18	2E-01	310	1E-02		
Chrysene	50	53	94%	0.00028	22	2.8	0.00447	3.87	--	7E-07	NC	--	--	1.2	2E+00	18	2E-01	76	4E-02		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	1.6	0.210	0.00447	0.113	--	2E-06	NC	--	--	1.2	2E-01	18	1E-02	140	2E-03		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	77	14.4	0.00447	0.387	--	4E-05	NC	--	--	1.2	1E+01	18	8E-01	300	5E-02		
Total TEQ_BAP	50	52	96%	0.000051	43.3	13.0	0.00447	0.0387	--	3E-04	NC	97.3%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	4.20E-08	2.92E-04	4.08E-05	9.12E-07	4.81E-06	5.05E-05	8E-06	8E-01	2.5%	47.3%	--	NC	--	NC	5.00E-06	8E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.968	2	1.29	234	8E-07	4E-03	0.2%	0.2%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	97.4	30.0	49	--	80	NC	4E-01	--	21.9%	115	3E-01	1700	2E-02	39	8E-01		
Mercury	43	51	84%	0.0037	23.6	0.675	0.13	--	16.8	NC	4E-02	--	2.4%	0.3	2E+00	0.1	7E+00	1.7	4E-01		
Antimony	34	51	67%	0.017	11	3.07	0.86	--	26.4	NC	1E-01	--	6.8%	5	6E-01	78	4E-02	2	2E+00		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	76	8.78	0.061	173	1220	5E-08	7E-03	0.0%	0.4%	1000	9E-03	--	NC	183	5E-02		
Cadmium	52	53	98%	0.167	2.9	1.13	0.7	844	4.6	1E-09	2E-01	0.0%	14.4%	32	4E-02	140	8E-03	0.81	1E+00		
MCPA	13	24	54%	0.29	1.2	0.757	0.761	--	34.3	NC	2E-02	--	1.292%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	14	1.87	0.0039	--	16400	NC	1E-04	--	0.01%	1.2	2E+00	29	6E-02	356	5E-03		
Silver	46	53	87%	0.0249	44.8	9.95	0.2	--	230	NC	4E-02	--	2.5%	560	2E-02	--	NC	119	8E-02		
Zinc	53	53	100%	42	1860	496	215	--	22800	NC	2E-02	--	1.3%	160	3E+00	120	4E+00	411	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-04				Hazard Index		4E+01		1E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.359	0.193	5.295	--	7E-06	NC	100%	--	20.8	2E-02						
Total Radionuclide Risk										7E-06				Sum of Fractions		2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-04											
No Action Alternative Total Hazard Index										2E+00											

Table B2-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.017	0.0071	0.017	0.232	1.1	3E-08	6E-03	1.4%	1.0%	40	2E-04	500	1E-05	0.064	1E-01		
Benzo(a)pyrene	49	53	92%	0.0012	0.031	0.0069	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05		
Benzo(a)anthracene	46	53	87%	0.0006	0.041	0.0072	0.00447	0.387	--	2E-08	NC	--	--	1.5	5E-03	18	4E-04	50	1E-04		
Benzo(b)fluoranthene	50	53	94%	0.00022	0.043	0.0094	0.00447	0.387	--	2E-08	NC	--	--	1.2	8E-03	18	5E-04	150	6E-05		
Benzo(k)fluoranthene	33	43	77%	0.001	0.019	0.0053	0.00447	0.387	--	1E-08	NC	--	--	1.2	4E-03	18	3E-04	310	2E-05		
Chrysene	50	53	94%	0.00028	0.038	0.0084	0.00447	3.87	--	2E-09	NC	--	--	1.2	7E-03	18	5E-04	76	1E-04		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	0.00447	0.0036	0.00447	0.113	--	3E-08	NC	--	--	1.2	3E-03	18	2E-04	140	3E-05		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	0.021	0.0060	0.00447	0.387	--	2E-08	NC	--	--	1.2	5E-03	18	3E-04	300	2E-05		
Total TEQ_BAP	50	52	96%	0.000051	0.04541	0.0140	0.00447	0.0387	--	4E-07	NC	16.8%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	0.000000042	0.00001849	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	50.8%	16.2%	--	NC	--	NC	0.000005	1E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2	0.8640	2	1.29	234	7E-07	4E-03	31.0%	0.6%	30	3E-02	2	4E-01	38	2E-02		
Lead	51	51	100%	6.4	49	27.2700	49	--	80	NC	3E-01	--	52.9%	115	2E-01	1700	2E-02	39	7E-01		
Mercury	43	51	84%	0.0037	0.19	0.0968	0.13	--	16.8	NC	6E-03	--	0.9%	0.3	3E-01	0.1	1E+00	1.7	6E-02		
Antimony	34	51	67%	0.017	0.86	0.3560	0.86	--	26.4	NC	1E-02	--	2.1%	5	7E-02	78	5E-03	2	2E-01		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	0.38	0.0385	0.061	173	1220	2E-10	3E-05	0.0%	0.0%	1000	4E-05	--	NC	183	2E-04		
Cadmium	52	53	98%	0.167	0.77	0.5900	0.7	844	4.6	7E-10	1E-01	0.0%	19.9%	32	2E-02	140	4E-03	0.81	7E-01		
MCPA	13	24	54%	0.29	0.761	0.6406	0.761	--	34.3	NC	2E-02	--	2.9%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	0.045	0.0080	0.0039	--	16400	NC	5E-07	--	0.0%	1.2	7E-03	29	3E-04	356	2E-05		
Silver	46	53	87%	0.0249	22	3.6650	0.2	--	230	NC	2E-02	--	2.5%	560	7E-03	--	NC	119	3E-02		
Zinc	53	53	100%	42	215	159.0000	215	--	22800	NC	7E-03	--	1.1%	160	1E+00	120	1E+00	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06				Hazard Index*		2E+00		3E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.213	0.1530	0.193	5.295	--	3E-06	NC	100%	--	20.8	7E-03						
Total Radionuclide Risk										3E-06				Sum of Fractions		7E-03					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										5E-06											
Cleanup to Revised LUT Values Alternative Total Hazard Index										6E-01											

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans

Table B2-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Cleanup to Revised LUT Values Alternative

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	0.0012	3.5	0.6885	0.017	0.232	1.1	3E-06	6E-01	42.7%	64.2%	40	2E-02	500	1E-03	0.39	2E+00
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.014	0.00447	0.0387	--	4E-07	NC	--	--	1.5	9E-03	18	8E-04	310	5E-05
Total TEQ_ BAP	24	34	71%	0.0000015	0.0	0.01	0.00447	0.0387	--	3E-07	NC	4.5%	--	--	NC	--	NC	--	NC
Total TEQ_ Dioxin	24	24	100%	2.63E-08	8.80E-05	1.76E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	3E-01	52.7%	35.8%	--	NC	--	NC	5.00E-06	4E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-06		Hazard Index		3E-02		2E-03		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.14	0.193	5.295	--	3E-06	NC	100.00%	--	20.8	7E-03				
Total Radionuclide Risk										3E-06		Sum of Fractions		7E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index										1E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	0.0012	0.028	0.0084	0.017	0.232	1.1	4E-08	8E-03	2.4%	6.4%	40	2E-04	500	2E-05	0.39	2E-02
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.0132	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	24	34	71%	0.0000015	0.04524	0.0118	0.00447	0.0387	--	3E-07	NC	20.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	0.00002037	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	77.3%	93.6%	--	NC	--	NC	5.00E-06	1E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*		9E-03		7E-04		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.141	0.193	5.295	--	3E-06	NC	100.0%	--	20.8	7E-03				
Total Radionuclide Risk										3E-06		Sum of Fractions		7E-03					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										4E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index										1E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Table B2-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Cleanup to Revised LUT Values Alternative

Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	1.30E+01	26	50%	0.00022	0.043	0.0129	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	17	26	65%	0.0000034	0.0548	0.016	0.00447	0.0387	--	4E-07	NC	4.7%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	0.000000245	0.00	0.00002469	9.12E-07	4.81E-06	0.0000505	5E-06	5E-01	59.4%	39.7%	--	NC	--	NC	5.00E-06	5E+00
Barium	29	29	100%	4.50E+01	1.00E+03	4.20E+02	3.71E+02	--	1.10E+04	NC	4E-02	--	3.1%	500	8E-01	330	1E+00	89	5E+00
Chromium (Hexavalent)	5	6	83%	0.67	4	4.000	2	1.29	234	3E-06	2E-02	35.9%	1.4%	30	1E-01	2	2E+00	38	1E-01
Lead	29	29	100%	4.9	77	32.860	49	--	80	NC	4E-01	--	33.3%	115	3E-01	1700	2E-02	110	3E-01
Silver	20	30	67%	0.024	150	53.360	0.2	--	230	NC	2E-01	--	18.8%	560	1E-01	--	NC	119	4E-01
Zinc	29	29	100%	43	3400	1039.000	215	--	22800	NC	5E-02	--	3.7%	283	4E+00	355	3E+00	411	3E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										9E-06		Hazard Index		5E+00		6E+00		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	18	94%	0.0137	196	119.50	0.193	5.295	--	2E-03	NC	100.0%	--	20.8	6E+00				
Total Radionuclide Risk										2E-03		Sum of Fractions		6E+00					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-03									
No Action Alternative Total Hazard Index										1E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	13	26	50%	0.000224	0.019	0.0055	0.00447	0.0387	--	1E-07	NC	--	--	1.5	4E-03	18	3E-04	310	2E-05		
Total TEQ_BAP	17	26	65%	0.0000034	0.02211	0.0054	0.00447	0.0387	--	1E-07	NC	7.5%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	18	18	100%	0.000000245	0.00000862	0.0000	9.12E-07	4.81E-06	0.0000505	6E-07	6E-02	32.6%	14.3%	--	NC	--	NC	5.00E-06	6E-01		
Barium	29	29	100%	45	371	162.5000	371	--	11000	NC	1E-02	--	3.7%	500	3E-01	330	5E-01	89	2E+00		
Chromium (Hexavalent)	5	6	83%	0.67	2	1.4350	2	1.29	234	1E-06	6E-03	--	1.5%	30	5E-02	2	7E-01	38	4E-02		
Lead	29	29	100%	4.9	49	25.2200	49	--	80	NC	3E-01	--	78.4%	115	2E-01	1700	1E-02	110	2E-01		
Silver	20	30	67%	0.024	8	0.4750	0.2	--	230	NC	2E-03	--	0.5%	560	8E-04	--	NC	119	4E-03		
Zinc	29	29	100%	43	215	148.6000	215	--	22800	NC	7E-03	--	1.6%	283	5E-01	355	4E-01	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*				1E+00		2E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	18	94%	0.0137	1.27	0.4150	0.193	5.295	--	8E-06	NC	100.0%	--	20.8	2E-02						
Total Radionuclide Risk										8E-06		Sum of Fractions				2E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										1E-05											
Cleanup to Revised LUT Values Alternative Total Hazard Index										4E-01											

Notes:

% Percent
BTV/ Background Threshold Value

Table B2-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Cleanup to Revised LUT Values Alternative

Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	16	28	57%	0.000175	0.074	0.01716	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05		
Total TEQ_BAP	22	28	79%	0.00000048	0.09661	0.0222	0.00447	0.0387	--	6E-07	NC	--	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	24	24	100%	2.08E-08	0.00002482	0.0000	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	--	100.0%	--	NC	--	NC	5.00E-06	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index				1E-02		1E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	24	26	92%	0.00723	0.993	0.445	0.193	5.295	--	8E-06	NC	100.00%	--	20.8	2E-02						
Total Radionuclide Risk										8E-06		Sum of Fractions				2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05											
No Action Alternative Total Hazard Index												1E-01									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk											
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**							
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient						
Benzo(a)pyrene	16	28	57%	0.000175	0.035	0.0093	0.00447	0.0387	--	2E-07	NC	--	--	1.5	6E-03	18	5E-04	310	3E-05						
Total TEQ_BAP	22	28	79%	0.00000048	0.04456	0.0117	0.00447	0.0387	--	3E-07	NC	29.6%	--	--	NC	--	NC	--	NC						
Total TEQ_Dioxin	24	24	100%	2.08E-08	0.000008142	0.0000	9.12E-07	4.81E-06	5.05E-05	7E-07	7E-02	70.4%	100.0%	--	NC	--	NC	5.00E-06	7E-01						
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06		Hazard Index*								6E-03		5E-04		7E-01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)											
Cesium-137	24	26	92%	0.00723	0.193	0.1170	0.193	5.295	--	2E-06	NC	100%	--	20.8	6E-03										
Total Radionuclide Risk										2E-06		Sum of Fractions								6E-03					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										3E-06															
Cleanup to Revised LUT Values Alternative Total Hazard Index												7E-02													

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

Table B2-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Cleanup to Revised LUT Values Alternative

TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.567	0.57	0.00447	0.0387	--	1E-05	NC	--	--	1.5	4E-01	18	3E-02	310	2E-03
Total TEQ_ BAP	8	11	73%	0.0000068	0.9	0.9	0.00447	0.0387	--	2E-05	NC	100.0%	--	--	NC	--	NC	--	NC
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		4E-01		3E-02		2E-03	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01				
Total Radionuclide Risk										5E-05		Sum of Fractions		1E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										8E-05									
No Action Alternative Total Hazard Index										0E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.0082	0.0050	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05
Total TEQ_BAP	8	11	73%	0.0000068	0.01503	0.0063	0.00447	0.0387	--	2E-07	NC	100.0%	--	--	NC	--	NC	--	NC
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-07		Hazard Index*		3E-03		3E-04		2E-05	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01				
Total Radionuclide Risk										5E-05		Sum of Fractions		1E-01					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										5E-05									
Cleanup to Revised LUT Values Alternative Total Hazard Index										0E+00									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value

Table B2-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Cleanup to Revised LUT Values Alternative

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00760	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	1.5%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	1.90E-06	0.0422	0.00890	0.00447	0.0387	--	2E-07	NC	0.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	4.25E-04	1.16E-04	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	99.1%	97.6%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05	Hazard Index 4E-01 8E-01 2E+01								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	5.30	--	1E-05	NC	99.64%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.36%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	1.7	0.4	0.86	--	26.4	NC	2E-02	--	14.1%	5	8E-02	78	5E-03	2	2E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.012	0.00402	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	32.1%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	0.0000019	0.0180	0.00411	0.00447	0.0387	--	1E-07	NC	14.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	0.000007019	0.000002914	9.12E-07	4.81E-06	5.05E-05	6E-07	6E-02	85.1%	53.7%	--	NC	--	NC	5.00E-06	6E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07	Hazard Index* 3E-01 8E-01 1E+00								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	1.41	0.697	0.193	5.295	--	1E-05	NC	99.66%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.34%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
Cleanup to Revised LUT Values Alternative Total Cancer Risk										1E-05									
Cleanup to Revised LUT Values Alternative Total Hazard Index										1E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

Table B2-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Cleanup to Revised LUT Values Alternative

LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	2.2	0.318	0.017	0.232	1.1	1E-06	3E-01	8.0%	11.9%	40	8E-03	500	6E-04	0.39	8E-01
Aroclor 5460	13	38	34%	0.015	0.99	0.0658	0.05	0.232	1.1	3E-07	6E-02	1.7%	2.5%	40	2E-03	500	1E-04	0.39	2E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.9	0.125	0.00447	0.0387	--	3E-06	NC	--	--	1.5	8E-02	18	7E-03	310	4E-04
Cadmium	42	45	93%	0.074	3.97	1.33	0.7	844	4.6	2E-09	3E-01	0.0%	11.9%	32	4E-02	140	9E-03	0.81	2E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	3.1	1.54	2	1.29	234	1E-06	7E-03	7.0%	0.3%	30	5E-02	2	8E-01	38	4E-02
Lead	48	48	100%	3.5	188	51.7	49	--	80	NC	6E-01	--	26.7%	115	4E-01	1700	3E-02	39	1E+00
MCPA	2	12	17%	1.2	2.1	2.10	0.761	--	34.3	NC	6E-02	--	2.5%	--	NC	--	NC	0.61	3E+00
Mercury	36	48	75%	0.006	23	2.63	0.13	--	16.8	NC	2E-01	--	6.5%	0.3	9E+00	0.1	3E+01	1.7	2E+00
Total TEQ_BAP	28	44	64%	4.50E-07	1.35	0.182	0.00447	0.0387	--	5E-06	NC	27.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.85E-04	4.63E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	9E-01	56.0%	37.8%	--	NC	--	NC	5.00E-06	9E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05	Hazard Index								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	5.295	--	9E-06	NC	100.0%	--	20.8	2E-02				
Total Radionuclide Risk										9E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index											2E+00								

Table B2-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	27	46	59%	0.0015	1.4	0.214	0.017	0.232	1.1	9E-07	2E-01	17.4%	21.5%	40	5E-03	500	4E-04	0.39	5E-01		
Aroclor 5460	13	38	34%	0.015	0.069	0.042	0.05	0.232	1.1	2E-07	4E-02	3.4%	4.2%	40	1E-03	500	8E-05	0.39	1E-01		
Benzo(a)pyrene	24	44	55%	0.00101	0.22	0.0395	0.00447	0.0387	--	1E-06	NC	--	--	1.5	3E-02	18	2E-03	310	1E-04		
Cadmium	42	45	93%	0.074	2	0.86	0.7	844	4.6	1E-09	2E-01	0.0%	20.8%	32	3E-02	140	6E-03	0.81	1E+00		
Chromium (Hexavalent Compo	11	17	65%	0.23	2.9	1.18	2	1.29	234	9E-07	5E-03	17.3%	0.6%	30	4E-02	2	6E-01	38	3E-02		
Lead	48	48	100%	3.5	68.5	27.5	49	--	80	NC	3E-01	--	38.0%	115	2E-01	1700	2E-02	39	7E-01		
MCPA	2	12	17%	1.2	1.2	0.93	0.761	--	34.3	NC	3E-02	--	3.0%	--	NC	--	NC	0.61	2E+00		
Mercury	36	48	75%	0.006	0.53	0.09	0.13	--	16.8	NC	5E-03	--	0.6%	0.3	3E-01	0.1	9E-01	1.7	5E-02		
Total TEQ_ BAP	28	44	64%	0.00000045	0.289	0.0850	0.00447	0.0387	--	2E-06	NC	41.4%	--	--	NC	--	NC	--	NC		
Total TEQ_ Dioxin	27	27	100%	1.55E-08	1.46E-05	5.23E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	20.5%	11.5%	--	NC	--	NC	5.00E-06	1E+00		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06			Hazard Index*			6E-01		2E+00		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	16	18	89%	0.018	1.31	0.513	0.193	5.295	--	1E-05	NC	100.00%	--	20.8	2E-02						
Total Radionuclide Risk										1E-05			Sum of Fractions			2E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										1E-05											
Cleanup to Revised LUT Values Alternative Total Hazard Index										9E-01											

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

HH Human Health

LUT Look-Up Table

NC Not Calculated

PRG Preliminary Remediation Goal

RBSL Risk Based Screening Level

Rec-Eco Recreational-Ecological

TEQ_ BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_ Dioxin Total Toxicity Equivalence Factor for dioxins/furans

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3.60E+01	63	57%	0.0019	2.9	0.111	0.017	0.232	1.1	5E-07	1E-01	2.8%	5.7%	40	3E-03	500	2E-04	0.39	3E-01
Benzo(a)pyrene	36	62	58%	0.00056	1.8	0.0559	0.00447	0.0387	--	1E-06	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04
Cadmium	59	60	98%	0.096	2.39	0.666	0.7	844	4.6	8E-10	1E-01	0.0%	8.2%	32	2E-02	140	5E-03	0.81	8E-01
Lead	59	60	98%	3.9	210	40.5	49	--	80	NC	5E-01	--	28.5%	115	4E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.91	0.591	0.761	--	34.3	NC	2E-02	--	1.0%	--	NC	--	NC	0.61	1E+00
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	380	NC	2E-03	--	0.1%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	2.68	0.241	0.00447	0.0387	--	6E-06	NC	36.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	0.000000048	3.94E-04	5.03E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	60.9%	56.1%	--	NC	--	NC	5.00E-06	1E+01
Zinc	60	60	100%	15	616	180	215	--	22800	NC	8E-03	--	0.4%	160	1E+00	120	2E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		3E+00		2E+00		1E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	0.23	0.0485	0.017	0.232	1.1	2E-07	4E-02	8.9%	6.9%	40	1E-03	500	1E-04	0.39	1E-01
Benzo(a)pyrene	36	62	58%	0.00056	0.09	0.0157	0.00447	0.0387	--	4E-07	NC	17.2%	--	1.5	1E-02	18	9E-04	310	5E-05
Cadmium	59	60	98%	0.096	1.7	0.418	0.7	844	4.6	5E-10	9E-02	0.0%	14.2%	32	1E-02	140	3E-03	0.81	5E-01
Lead	59	60	98%	3.9	97.2	29.2	49	--	80	NC	4E-01	--	57.2%	115	3E-01	1700	2E-02	39	7E-01
MCPA	8	17	47%	0.19	0.761	0.520	0.761	--	34.3	NC	2E-02	--	2.4%	--	NC	--	NC	0.61	9E-01
Selenium	39	60	65%	0.0667	1.2	0.633	1	--	380	NC	2E-03	--	0.3%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	0.128	0.0363	0.00447	0.0387	--	9E-07	NC	39.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	4.80E-08	2.95E-05	5.77E-06	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	51.1%	17.9%	--	NC	--	NC	5.00E-06	1E+00
Zinc	60	60	100%	15	616	1.52E+02	215	--	22800	NC	7E-03	--	1.0%	160	9E-01	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*		2E+00		1E+00		4E+00	
Cleanup to Revised LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index										6E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PPG

Preliminary Remediation Goal



Table B2-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Cleanup to Revised LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.27	0.0977	0.00447	0.0387	--	3E-06	NC	--	--	1.5	7E-02	18	5E-03	310	3E-04
Cadmium	22	22	100%	0.264	0.87	0.648	0.7	844	4.6	8E-10	1E-01	0.01%	14.4%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.21	0.761	--	34.3	NC	4E-02	--	3.6%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	35.4	10.9	0.13	--	16.8	NC	7E-01	--	66.6%	0.3	4E+01	0.1	1E+02	1.7	6E+00
Total TEQ_BAP	21	22	95%	4.30E-07	0.410	0.143	0.00447	0.0387	--	4E-06	NC	70.0%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	1.95E-05	7.58E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	30.0%	15.4%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											4E+01		1E+02		1E+01				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100.00%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										5E-06									
No Action Alternative Total Hazard Index											1E+00								

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.00447	0.0045	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	22	22	100%	0.264	0.7	0.615	0.7	844	4.6	7E-10	1E-01	0.1%	62.2%	32	2E-02	140	4E-03	0.81	8E-01
MCPA	13	19	68%	0.11	0.761	0.761	0.761	--	34.3	NC	2E-02	--	10.3%	--	NC	--	NC	0.61	1E+00
Mercury	18	22	82%	0.0048	0.13	0.1	0.13	--	16.8	NC	7E-03	--	3.4%	0.3	4E-01	0.1	1E+00	1.7	7E-02
Total TEQ_BAP	21	22	95%	4.30E-07	0.004	0.004	0.00447	0.0387	--	1E-07	NC	17.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	4.24E-06	2.61E-06	9.12E-07	4.81E-06	5.05E-05	5E-07	5E-02	82.4%	24.0%	--	NC	--	NC	5.00E-06	5E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07	Hazard Index*								
											4E-01		1E+00		3E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08	Sum of Fractions								
Cleanup to Revised LUT Values Alternative Total Cancer Risk										7E-07									
Cleanup to Revised LUT Values Alternative Total Hazard Index											2E-01								

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table



Table B2-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Cleanup to Revised LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	8.25	1.35	2	--	26.4	NC	5E-02	--	0.5%	5	3E-01	78	2E-02	2	7E-01
Aroclor 1254	7	28	25%	0.0095	1.8	0.398	0.017	0.232	1.1	2E-06	4E-01	16.8%	3.5%	40	1E-02	500	8E-04	0.39	1E+00
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.232	1.1	5E-08	1E-02	0.5%	0.1%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	1.3	0.502	0.05	0.232	1.1	2E-06	5E-01	21.1%	4.5%	40	1E-02	500	1E-03	0.39	1E+00
Benzo(a)pyrene	11	28	39%	0.00033	0.21	0.0478	0.00447	0.0387	--	1E-06	NC	--	--	1.5	3E-02	18	3E-03	310	2E-04
Cadmium	26	28	93%	0.058	3.41	0.787	0.7	844	4.6	9E-10	2E-01	0.0%	1.7%	32	2E-02	140	6E-03	0.81	1E+00
Lead	27	28	96%	3.2	3080	681	49	--	80	NC	9E+00	--	83.1%	115	6E+00	1700	4E-01	39	2E+01
Mercury	21	28	75%	0.008	24.3	6.72	0.13	--	16.8	NC	4E-01	--	3.9%	0.3	2E+01	0.1	7E+01	1.7	4E+00
Total TEQ_BAP	20	28	71%	8.10E-06	3.06E-01	1.36E-01	4.47E-03	3.87E-02	--	4E-06	NC	34.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	4.00E-05	1.35E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	3E-01	27.5%	2.6%	--	NC	--	NC	5.00E-06	3E+00
Zinc	28	28	100%	34	1060	266	215	--	22800	NC	1E-02	--	0.1%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-05		Hazard Index		3E+01		7E+01		3E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index										1E+01									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	0.97	0.466	2	--	26.4	NC	2E-02	--	3.3%	5	9E-02	78	6E-03	2	2E-01
Aroclor 1254	7	28	25%	0.0095	0.024	0.0137	0.017	0.232	1.1	6E-08	1E-02	11.1%	2.3%	40	3E-04	500	3E-05	0.39	4E-02
Aroclor 1260	3	28	11%	0.00895	0.027	0.0106	0.017	0.232	1.1	5E-08	1E-02	8.6%	1.8%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	0.05	0.0206	0.05	0.232	1.1	9E-08	2E-02	16.7%	3.5%	40	5E-04	500	4E-05	0.39	5E-02
Benzo(a)pyrene	11	28	39%	0.00033	0.0059	0.00305	0.00447	0.0387	--	8E-08	NC	--	--	1.5	2E-03	18	2E-04	310	1E-05
Cadmium	26	28	93%	0.058	0.7	0.446	0.7	844	4.6	5E-10	1E-01	0.1%	18.1%	32	1E-02	140	3E-03	0.81	6E-01
Lead	27	28	96%	3.2	49	27.3	49	--	80	NC	3E-01	--	63.8%	115	2E-01	1700	2E-02	39	7E-01
Mercury	21	28	75%	0.008	0.375	0.137	0.13	--	16.8	NC	8E-03	--	1.5%	0.3	5E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	20	28	71%	8.10E-06	6.09E-03	2.66E-03	4.47E-03	3.87E-02	--	7E-08	NC	12.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	2.93E-06	1.29E-06	9.12E-07	4.81E-06	5.05E-05	3E-07	3E-02	50.5%	4.8%	--	NC	--	NC	5.00E-06	3E-01
Zinc	28	28	100%	34	215	94.8	215	--	22800	NC	4E-03	--	0.8%	160	6E-01	120	8E-01	411	2E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										5E-07		Hazard Index*		1E+00		2E+00		2E+00	
Cleanup to Revised LUT Values Alternative Total Cancer Risk										5E-07									
Cleanup to Revised LUT Values Alternative Total Hazard Index										5E-01									

Notes:

% Percent
BTV Background Threshold Value
Conc. Concentration

Table B2-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Cleanup to Revised LUT Values Alternative

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

No radionuclides were evaluated for this exposure area because no radionuclides exceeded Field Action Levels.

Table B2-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	1.9	0.584	0.7	844	4.6	7E-10	1E-01	0.01%	18.9%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	2	15	13%	0.76	1	0.94	0.761	--	34.3	NC	3E-02	--	4.1%	--	NC	--	NC	0.61	2E+00
Mercury	40	43	93%	0.0059	2.2	0.0933	0.13	--	16.8	NC	6E-03	--	0.8%	0.3	3E-01	0.1	9E-01	1.7	5E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.16E-04	2.43E-05	9.12E-07	4.81E-06	5.05E-05	5E-06	5E-01	99.99%	71.7%	--	NC	--	NC	5.00E-06	5E+00
Zinc	41	41	100%	45	4630	685	215	--	22800	NC	3E-02	--	4.5%	160	4E+00	120	6E+00	411	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											5E+00		7E+00		9E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.3%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										7E-06									
No Action Alternative Total Hazard Index											7E-01								

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	0.84	0.389	0.7	844	4.6	5E-10	8E-02	0.06%	44.5%	32	1E-02	140	3E-03	0.81	5E-01
MCPA	2	15	13%	0.76	1	0.91	0.761	--	34.3	NC	3E-02	--	14.0%	--	NC	--	NC	0.61	1E+00
Mercury	40	43	93%	0.0059	0.213	0.0592	0.13	--	16.8	NC	4E-03	--	1.9%	0.3	2E-01	0.1	6E-01	1.7	3E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.45E-05	3.57E-06	9.12E-07	4.81E-06	5.05E-05	7E-07	7E-02	99.94%	37.2%	--	NC	--	NC	5.00E-06	7E-01
Zinc	41	41	100%	45	215	105	215	--	22800	NC	5E-03	--	2.4%	160	7E-01	120	9E-01	411	3E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07	Hazard Index*								
											9E-01		1E+00		3E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.35%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
Cleanup to Revised LUT Values Alternative Total Cancer Risk										3E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index											2E-01								

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B2-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Cleanup to Revised LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B2-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	1.9	0.237	0.017	0.232	1.1	1E-06	2E-01	7.0%	7.4%	40	6E-03	500	5E-04	0.39	6E-01
Aroclor 5460	6	19	32%	0.0021	4.2	2.568	0.05	0.232	1.1	1E-05	2E+00	75.5%	80.2%	40	6E-02	500	5E-03	0.39	7E+00
Cadmium	21	22	95%	0.088	1.43	0.545	0.7	844	4.6	6E-10	1E-01	0.00%	4.1%	32	2E-02	140	4E-03	0.81	7E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	2.26E-05	1.23E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	17.5%	8.4%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-05		Hazard Index		9E-02		1E-02		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.07%	--	6110	3E-06				
Total Radionuclide Risk										2E-05		Sum of Fractions		4E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index										3E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	0.017	0.009256	0.017	0.232	1.1	4E-08	8E-03	3.9%	4.0%	40	2E-04	500	2E-05	0.39	2E-02
Aroclor 5460	6	19	32%	0.0021	0.05	0.0229	0.05	0.232	1.1	1E-07	2E-02	9.6%	9.8%	40	6E-04	500	5E-05	0.39	6E-02
Cadmium	21	22	95%	0.088	0.86	0.451	0.7	844	4.6	5E-10	1E-01	0.05%	46.4%	32	1E-02	140	3E-03	0.81	6E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	8.47E-06	4.26E-06	9.12E-07	4.81E-06	5.05E-05	9E-07	8E-02	86.4%	39.8%	--	NC	--	NC	5.00E-06	9E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*		1E-02		3E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.85	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.08%	--	6110	3E-06				
Total Radionuclide Risk										2E-05		Sum of Fractions		4E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										2E-05									
Cleanup to Revised LUT Values Alternative Total Hazard Index										2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B2-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Cleanup to Revised LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B2-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk										
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**						
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient					
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.232	1.1	1E-06	3E-01	32.9%	37.7%	40	8E-03	500	7E-04	0.39	8E-01					
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.232	1.1	7E-08	2E-02	1.7%	1.9%	40	4E-04	500	3E-05	0.25	7E-02					
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.232	1.1	1E-06	2E-01	25.1%	28.8%	40	6E-03	500	5E-04	0.39	6E-01					
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	844	4.6	5E-10	9E-02	0.01%	10.7%	32	1E-02	140	3E-03	0.81	5E-01					
Total TEQ_Dioxin	28	28	100%	2.27E-08	5.04E-05	8.37E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	40.4%	20.9%	--	NC	--	NC	5.00E-06	2E+00					
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-06	Hazard Index									3E-02	4E-03		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)										
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	5.295	--	1E-05	NC	99.46%	--	20.8	3E-02									
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.54%	--	22.5	1E-02									
Total Radionuclide Risk										1E-05	Sum of Fractions									4E-02				
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05														
No Action Alternative Total Hazard Index										8E-01														

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	43	63%	0.00039	1.3	0.237	0.017	0.232	1.1	1E-06	2E-01	32.3%	33.1%	40	6E-03	500	5E-04	0.39	6E-01
Aroclor 1260	21	43	49%	0.0021	0.28	0.0153	0.017	0.232	1.1	7E-08	1E-02	2.1%	2.1%	40	4E-04	500	3E-05	0.25	6E-02
Aroclor 5460	23	28	82%	0.0021	0.91	0.245	0.05	0.232	1.1	1E-06	2E-01	33.4%	34.2%	40	6E-03	500	5E-04	0.39	6E-01
Cadmium	46	47	98%	0.078	1.47	0.468	0.7	844	4.6	6E-10	1E-01	0.02%	15.6%	32	1E-02	140	3E-03	0.81	6E-01
Total TEQ_Dioxin	28	28	100%	2.27E-08	1.39E-05	4.90E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	32.2%	14.9%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-06	Hazard Index* 3E-02 4E-03 3E+00								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	40	40	100%	0.0628	1.45	0.545	0.193	5.295	--	1E-05	NC	99.33%	--	20.8	3E-02				
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.67%	--	22.5	1E-02				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
Cleanup to Revised LUT Values Alternative Total Cancer Risk										1E-05									
Cleanup to Revised LUT Values Alternative Total Hazard Index										7E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B2-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Cleanup to Revised LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B2-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	26	31	84%	0.136	14.5	3.58	0.86	--	26.4	NC	1E-01	--	7.0%	5	7E-01	78	5E-02	2	2E+00
Benzo(a)pyrene	16	34	47%	0.0015	2.08	0.353	0.00447	0.0387	--	9E-06	NC	--	--	1.5	2E-01	18	2E-02	310	1E-03
Cadmium	31	31	100%	0.03	2.78	0.534	0.7	844	4.6	6E-10	1E-01	0.0%	6.0%	32	2E-02	140	4E-03	0.81	7E-01
Chromium (Hexavalent)	6	14	43%	0.48	7.1	6.30	2	1.29	234	5E-06	3E-02	26.0%	1.4%	30	2E-01	2	3E+00	38	2E-01
Lead	34	34	100%	0.24	514	128	49	--	80	NC	2E+00	--	82.0%	115	1E+00	1700	8E-02	39	3E+00
Total TEQ_BAP	20	34	59%	1.11E-04	2.611	0.508	0.00447	0.0387	--	1E-05	NC	69.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	16	16	100%	1.14E-08	8.63E-06	3.65E-06	9.12E-07	4.81E-06	5.05E-05	8E-07	7E-02	4.0%	3.7%	--	NC	--	NC	5.00E-06	7E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		2E+00		3E+00		7E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03				
Total Radionuclide Risk										2E-08		Sum of Fractions		3E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index												2E+00							

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	26	31	84%	0.136	1.64	0.61	0.86	--	26.4	NC	2E-02	--	4.9%	5	1E-01	78	8E-03	2	3E-01		
Benzo(a)pyrene	16	34	47%	0.0015	0.0085	0.0050	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05		
Cadmium	31	31	100%	0.03	0.7	0.363	0.7	844	4.6	4E-10	8E-02	0.0%	16.8%	32	1E-02	140	3E-03	0.81	4E-01		
Chromium (Hexavalent)	6	14	43%	0.48	2	1.25	2	1.29	234	1E-06	5E-03	58.3%	1.1%	30	4E-02	2	6E-01	38	3E-02		
Lead	34	34	100%	0.24	49	25.1	49	--	80	NC	3E-01	--	67.0%	115	2E-01	1700	1E-02	39	6E-01		
Total TEQ_BAP	20	34	59%	0.000111	0.011	0.0075	0.00447	0.0387	--	2E-07	NC	11.6%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	16	16	100%	1.14E-08	2.85E-06	2.40E-06	9.12E-07	4.81E-06	5.05E-05	5E-07	5E-02	30.1%	10.1%	--	NC	--	NC	5.00E-06	5E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06				Hazard Index*		4E-01		6E-01		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03						
Total Radionuclide Risk										2E-08				Sum of Fractions		3E-03					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										2E-06											
Cleanup to Revised LUT Values Alternative Total Hazard Index														5E-01							

Notes:

- %
- Percent
- BTV
- Background Threshold Value
- Conc.
- Concentration

Table B2-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Cleanup to Revised LUT Values Alternative

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	1.5	0.280	0.017	0.232	1.1	1E-06	3E-01	8.0%	8.5%	40	7E-03	500	6E-04	0.39	7E-01
Aroclor 5460	6	20	30%	0.0016	5.1	2.97	0.05	0.232	1.1	1E-05	3E+00	85.1%	90.2%	40	7E-02	500	6E-03	0.39	8E+00
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0387	--	6E-07	NC	4.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	8.93E-06	2.01E-06	9.12E-07	4.81E-06	5.05E-05	4E-07	4E-02	2.8%	1.3%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		9E-02		7E-03		9E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.0%	--	22.5	5E-03				
Total Radionuclide Risk									3E-08		Sum of Fractions		5E-03						
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									2E-05										
No Action Alternative Total Hazard Index									3E+00										

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	17	31	55%	0.0015	0.097	0.0264	0.017	0.232	1.1	1E-07	2E-02	18.8%	40.8%	40	7E-04	500	5E-05	0.39	7E-02		
Aroclor 5460	6	20	30%	0.0016	0.05	0.0155	0.05	0.232	1.1	7E-08	1E-02	11.0%	23.9%	40	4E-04	500	3E-05	0.39	4E-02		
Benzo(a)pyrene	17	28	61%	0.00092	0.02	0.0058	0.00447	0.0387	--	2E-07	NC	--	--	1.5	4E-03	18	3E-04	310	2E-05		
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0387	--	2E-07	NC	34.1%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	25	28	89%	8.96E-08	2.86E-06	1.05E-06	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	36.0%	35.3%	--	NC	--	NC	5.00E-06	2E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									6E-07		Hazard Index*				5E-03		4E-04		3E-01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.00%	--	22.5	5E-03						
Total Radionuclide Risk									3E-08		Sum of Fractions				5E-03						
Cleanup to Revised LUT Values Alternative Total Cancer Risk									6E-07												
Cleanup to Revised LUT Values Alternative Total Hazard Index									6E-02												

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B2-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Cleanup to Revised LUT Values Alternative

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B2-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	870	422	0.86	--	26.4	NC	2E+01	--	13.7%	5	8E+01	78	5E+00	2	2E+02
Benzo(a)pyrene	12	22	55%	0.00083	0.015	0.00790	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	3E-05
Cadmium	22	26	85%	0.103	1.36	1.02	0.7	844	4.6	1E-09	2E-01	0.03%	0.2%	32	3E-02	140	7E-03	0.81	1E+00
Lead	27	27	100%	7.4	27000	8033	49	--	80	NC	1E+02	--	85.8%	115	7E+01	1700	5E+00	39	2E+02
Total TEQ_BAP	19	22	86%	8.70E-07	0.0202	0.00887	0.00447	0.0387	--	2E-07	NC	5.04%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	2.82E-05	2.08E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	4E-01	94.93%	0.4%	--	NC	--	NC	5.00E-06	4E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											2E+02					1E+01			4E+02
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	94.87%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	360	--	7E-08	NC	5.13%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										6E-06									
No Action Alternative Total Hazard Index											1E+02								

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	0.86	0.56	0.86	--	26.4	NC	2E-02	--	3.8%	5	1E-01	78	7E-03	2	3E-01
Benzo(a)pyrene	12	22	55%	0.00083	0.014	0.00469	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05
Cadmium	22	26	85%	0.103	0.7	0.408	0.7	844	4.6	5E-10	9E-02	0.15%	15.9%	32	1E-02	140	3E-03	0.81	5E-01
Lead	27	27	100%	7.4	49	34.7	49	--	80	NC	4E-01	--	77.7%	115	3E-01	1700	2E-02	39	9E-01
Total TEQ_BAP	19	22	86%	8.70E-07	0.0188	0.00635	0.00447	0.0387	--	2E-07	NC	51.96%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	1.77E-06	7.27E-07	9.12E-07	4.81E-06	5.05E-05	2E-07	1E-02	47.89%	2.6%	--	NC	--	NC	5.00E-06	1E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07	Hazard Index*								
											4E-01					3E-02			2E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	97.61%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	0.535	0.109	0.075	360	--	3E-08	NC	2.39%	--	22.5	5E-03				
Total Radionuclide Risk										1E-06	Sum of Fractions								
Cleanup to Revised LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index											6E-01								

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological

Table B2-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Cleanup to Revised LUT Values Alternative

HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B2-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to Revised LUT Values Alternative

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.00444	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	26	26	100%	0.307	1.32	0.641	0.7	844	4.6	8E-10	1E-01	0.004%	7.3%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	8	15	53%	0.29	1.4	1	0.761	--	34.3	NC	3E-02	--	1.5%	--	NC	--	NC	0.61	2E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.0262	0.00447	0.0387	--	7E-07	NC	3.548%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	1.87E-04	8.85E-05	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	96.45%	91.3%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		2E-02		5E-03		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Cleanup to Revised LUT Values Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.00447	0.00251	0.00447	0.0387	--	6E-08	NC	--	--	1.5	2E-03	18	1E-04	310	8E-06
Cadmium	26	26	100%	0.307	0.754	0.581	0.7	844	4.6	7E-10	1E-01	0.19%	72.3%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	8	15	53%	0.29	0.761	0.739	0.761	--	34.3	NC	2E-02	--	12.32%	--	NC	--	NC	0.61	1E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.009	0.003256	0.00447	0.0387	--	8E-08	NC	22.88%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	4.25E-06	1.36E-06	9.12E-07	4.81E-06	5.05E-05	3E-07	3E-02	76.9%	15.4%	--	NC	--	NC	5.00E-06	3E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-07		Hazard Index*		2E-02		4E-03		2E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
Cleanup to Revised LUT Values Alternative Total Cancer Risk										2E-06									
Cleanup to Revised LUT Values Alternative Total Hazard Index										2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B2-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Cleanup to Revised LUT Values Alternative

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0528	0.017	0.232	1.1	2E-07	5E-02	0.3%	0.2%	40	1E-03	500	1E-04	0.25	2E-01
Benzo(a)pyrene	39	83	47%	0.00077	8.8	0.821	0.00447	0.0387	--	2E-05	NC	--	--	1.5	5E-01	18	5E-02	310	3E-03
Total TEQ_BAP	48	77	62%	0.000012	13.4	2.62	0.00447	0.0387	--	7E-05	NC	96.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	8.39E-05	1.22E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	3.6%	0.9%	--	NC	--	NC	5.00E-06	2E+00
Antimony	42	85	49%	0.078	1010	64.4	0.86	--	26.4	NC	2E+00	--	9.1%	5	1E+01	78	8E-01	2	3E+01
Cadmium	82	85	96%	0.038	5.01	0.736	0.7	844	4.6	9E-10	2E-01	0.001%	0.6%	32	2E-02	140	5E-03	0.81	9E-01
Lead	85	85	100%	2.6	30200	1916	49	--	80	NC	2E+01	--	89.2%	115	2E+01	1700	1E+00	39	5E+01
Phenanthrene	39	83	47%	0.00074	18	1.55	0.0039	--	16400	NC	9E-05	--	0.0004%	1.2	1E+00	29	5E-02	356	4E-03
Zinc	86	86	100%	35.3	1300	241	215	--	22800	NC	1E-02	--	0.04%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-05		Hazard Index		3E+01		4E+00		9E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.0097	0.0264	0.00427	0.00556	1.157	--	4E-07	NC	1.35%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	6.59	1.39	0.193	5.295	--	3E-05	NC	96.17%	--	20.8	7E-02				
Strontium-90	28	44	64%	0.138	14.3	2.44	0.075	360	--	7E-07	NC	2.48%	--	22.5	1E-01				
Total Radionuclide Risk										3E-05		Sum of Fractions		2E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-04									
No Action Alternative Total Hazard Index										3E+01									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0524	0.017	0.232	1.1	2E-07	5E-02	7.3%	8.3%	40	1E-03	500	1E-04	0.25	2E-01
Benzo(a)pyrene	39	83	47%	0.00077	0.21	0.023	0.00447	0.0387	--	6E-07	NC	--	--	1.5	2E-02	18	1E-03	310	7E-05
Total TEQ_BAP	48	77	62%	0.000012	0.3	0.06	0.00447	0.0387	--	2E-06	NC	53.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	1.71E-05	5.81E-06	9.12E-07	5E-06	5E-05	1E-06	1E-01	39.2%	20.0%	--	NC	--	NC	5.00E-06	1E+00
Antimony	42	85	49%	0.078	4.63	0.7	0.86	--	26.4	NC	3E-02	--	4.7%	5	1E-01	78	9E-03	2	4E-01
Cadmium	82	85	96%	0.038	5.01	0.687	0.7	844	4.6	8E-10	1E-01	0.0%	25.9%	32	2E-02	140	5E-03	0.81	8E-01
Lead	85	85	100%	2.6	49	18.22	49	--	80	NC	2E-01	--	39.5%	115	2E-01	1700	1E-02	39	5E-01
Phenanthrene	39	83	47%	0.00074	0.53	0.06	0.0039	--	16400	NC	4E-06	--	0.0%	1.2	5E-02	29	2E-03	356	2E-04
Zinc	86	86	100%	35.3	1300	208	215	--	22800	NC	9E-03	--	1.6%	160	1E+00	120	2E+00	411	5E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-06		Hazard Index*		2E+00		2E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.00556	0.0264	0.0037	0.00556	1.157	--	3E-07	NC	1.59%	--	692	5E-06				
Cesium-137	47	47	100%	0.0196	4.7	0.995	0.193	5.295	--	2E-05	NC	95.0%	--	20.8	5E-02				
Strontium-90	28	44	64%	0.075	14.3	2.44	0.075	360	--	7E-07	NC	3.42%	--	22.5	1E-01				
Total Radionuclide Risk										2E-05		Sum of Fractions		2E-01					
Conservation of Natural Resources Alternative Total Cancer Risk										2E-05									
Conservation of Natural Resources Alternative Total Hazard Index										6E-01									

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

Table B3-1 Summary of Residential Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	2.60E+01	50	52%	0.00326	2.6	0.0668	0.017	0.232	1.1	3E-07	6E-02	0.9%	2.6%	40	2E-03	500	1E-04	0.39	2E-01
Aroclor 5460	29	36	81%	0.0012	3.3	0.562	0.05	0.232	1.1	2E-06	5E-01	7.8%	21.6%	40	1E-02	500	1E-03	0.39	1E+00
Total TEQ_BAP	38	49	78%	0.00022	1.49	0.599	0.00447	0.0387	--	2E-05	NC	50.0%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	31	31	100%	1.87E-07	2.01E-04	5.40E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	36.2%	45.2%	--	NC	--	NC	5.00E-06	1E+01
Benzo(a)anthracene	31	49	63%	0.000271	1	0.269	0.00447	0.387	--	7E-07	NC	--	--	1.5	2E-01	18	1E-02	50	5E-03
Benzo(a)pyrene	31	49	63%	0.000249	0.93	0.285	0.00447	0.0387	--	7E-06	NC	--	--	1.5	2E-01	18	2E-02	310	9E-04
Benzo(b)fluoranthene	36	49	73%	0.000494	1.5	0.457	0.00447	0.387	--	1E-06	NC	--	--	1.2	4E-01	18	3E-02	150	3E-03
Benzo(k)fluoranthene	18	38	47%	0.00061	0.63	0.231	0.00447	0.387	--	6E-07	NC	--	--	1.2	2E-01	18	1E-02	310	7E-04
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.18	0.0306	0.00447	0.113	--	3E-07	NC	--	--	1.2	3E-02	18	2E-03	140	2E-04
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.65	0.178	0.00447	0.387	--	5E-07	NC	--	--	1.2	1E-01	18	1E-02	300	6E-04
Chromium (Hexavalent)	13	22	59%	0.32	4.8	2.00	2	1.29	234	2E-06	9E-03	5.0%	0.4%	30	7E-02	2	1E+00	38	5E-02
Lead	53	53	100%	2.9	78.3	16.4	49	--	80	NC	2E-01	--	8.7%	115	1E-01	1700	1E-02	39	4E-01
Mercury	53	65	82%	0.0073	35	4.61	0.13	--	16.8	NC	3E-01	--	11.6%	0.3	2E+01	0.1	5E+01	1.7	3E+00
Antimony	25	49	51%	0.014	3.22	0.619	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01
Cadmium	50	50	100%	0.097	2.39	0.888	0.7	844	4.6	1E-09	2E-01	0.0%	8.2%	32	3E-02	140	6E-03	0.81	1E+00
Molybdenum	49	50	98%	0.19	23.2	3.22	3.2	--	380	NC	8E-03	--	0.4%	2	2E+00	--	NC	2.6	1E+00
Zinc	50	50	100%	35	796	228	215	--	22800	NC	1E-02	--	0.4%	160	1E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-05		Hazard Index		2E+01		5E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	46	11%	0.00668	0.048	0.0023	0.00556	1.157	--	2E-07	NC	0.14%	--	692	3E-06				
Cesium-137	42	46	91%	0.0105	46.4	7.32	0.193	5.295	--	1E-04	NC	99.5%	--	20.8	4E-01				
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	152.7	--	9E-09	NC	0.01%	--	6110	2E-06				
Strontium-90	17	40	43%	0.077	21.3	1.95	0.075	360	--	5E-07	NC	0.39%	--	22.5	9E-02				
Total Radionuclide Risk										1E-04		Sum of Fractions		4E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-04									
No Action Alternative Total Hazard Index										2E+00									

Table B3-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	26	50	52%	0.00326	0.167	0.0264	0.017	0.232	1.1	1E-07	2E-02	2.1%	4.9%	40	7E-04	500	5E-05	0.39	7E-02		
Aroclor 5460	29	36	81%	0.0012	0.226	0.0581	0.05	0.232	1.1	3E-07	5E-02	4.7%	10.8%	40	1E-03	500	1E-04	0.39	1E-01		
Total TEQ_ BAP	38	49	78%	0.00022	0.3774	0.1229	0.00447	0.0387	--	3E-06	NC	59.1%	--	--	NC	--	NC	--	NC		
Total TEQ_ Dioxin	31	31	100%	0.000000187	0.00002541	0.0000	9.12E-07	4.81E-06	5.05E-05	7E-07	7E-02	13.6%	14.1%	--	NC	--	NC	5.00E-06	7E-01		
Benzo(a)anthracene	31	49	63%	0.000271	0.389	0.0220	0.00447	0.387	--	6E-08	NC	--	--	1.5	1E-02	18	1E-03	50	4E-04		
Benzo(a)pyrene	31	49	63%	0.000249	0.242	0.0238	0.00447	0.0387	--	6E-07	NC	--	--	1.5	2E-02	18	1E-03	310	8E-05		
Benzo(b)fluoranthene	36	49	73%	0.000494	0.422	0.0257	0.00447	0.387	--	7E-08	NC	--	--	1.2	2E-02	18	1E-03	150	2E-04		
Benzo(k)fluoranthene	18	38	47%	0.00061	0.051	0.0095	0.00447	0.387	--	2E-08	NC	--	--	1.2	8E-03	18	5E-04	310	3E-05		
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.0418	0.0090	0.00447	0.113	--	8E-08	NC	--	--	1.2	7E-03	18	5E-04	140	6E-05		
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.0958	0.0184	0.00447	0.387	--	5E-08	NC	--	--	1.2	2E-02	18	1E-03	300	6E-05		
Chromium (Hexavalent)	13	22	59%	0.32	3	1.4260	2	1.29	234	1E-06	6E-03	20.6%	1.2%	30	5E-02	2	7E-01	38	4E-02		
Lead	53	53	100%	2.9	49	15.5600	49	--	80	NC	2E-01	--	39.6%	115	1E-01	1700	9E-03	39	4E-01		
Mercury	53	65	82%	0.0073	0.97	0.2180	0.13	--	16.8	NC	1E-02	--	2.6%	0.3	7E-01	0.1	2E+00	1.7	1E-01		
Antimony	25	49	51%	0.014	2.33	0.4880	0.86	--	26.4	NC	2E-02	--	3.8%	5	1E-01	78	6E-03	2	2E-01		
Cadmium	50	50	100%	0.097	2.2	0.4790	0.7	844	4.6	6E-10	1E-01	0.0%	21.2%	32	1E-02	140	3E-03	0.81	6E-01		
Molybdenum	49	50	98%	0.19	3.21	0.8630	3.2	--	380	NC	2E-03	--	0.5%	2	4E-01	--	NC	2.6	3E-01		
Zinc	50	50	100%	35	398	146.1000	215	--	22800	NC	6E-03	--	1.3%	160	9E-01	120	1E+00	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										5E-06		Hazard Index*				2E+00		4E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cobalt-60	5	46	11%	0.00668	0.0114	0.0028	0.00556	1.157	--	2E-07	NC	1.36%	--	692	4E-06						
Cesium-137	42	46	91%	0.0105	4.36	0.9180	0.193	5.295	--	2E-05	NC	98.2%	--	20.8	4E-02						
Plutonium-239/240	15	34	44%	0.00315	0.0213	0.0077	0.0142	152.7	--	5E-09	NC	0.03%	--	6110	1E-06						
Strontium-90	17	40	43%	0.077	1.07	0.2590	0.075	360	--	7E-08	NC	0.41%	--	22.5	1E-02						
Total Radionuclide Risk										2E-05		Sum of Fractions				6E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										2E-05											
Conservation of Natural Resources Alternative Total Hazard Index										5E-01											

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_ BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_ Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value

Table B3-2 Summary of Residential Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B3-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0290	0.017	0.232	1.1	1E-07	3E-02	0.0%	1.5%	40	7E-04	500	6E-05	0.064	5E-01		
Benzo(a)pyrene	49	53	92%	0.0012	31	6.20	0.00447	0.0387	--	2E-04	NC	--	--	1.5	4E+00	18	3E-01	310	2E-02		
Benzo(a)anthracene	46	53	87%	0.0006	16	1.86	0.00447	0.387	--	5E-06	NC	--	--	1.5	1E+00	18	1E-01	50	4E-02		
Benzo(b)fluoranthene	50	53	94%	0.00022	26	5.77	0.00447	0.387	--	1E-05	NC	--	--	1.2	5E+00	18	3E-01	150	4E-02		
Benzo(k)fluoranthene	33	43	77%	0.001	15	3.84	0.00447	0.387	--	1E-05	NC	--	--	1.2	3E+00	18	2E-01	310	1E-02		
Chrysene	50	53	94%	0.00028	22	2.8	0.00447	3.87	--	7E-07	NC	--	--	1.2	2E+00	18	2E-01	76	4E-02		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	1.6	0.210	0.00447	0.113	--	2E-06	NC	--	--	1.2	2E-01	18	1E-02	140	2E-03		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	77	14.4	0.00447	0.387	--	4E-05	NC	--	--	1.2	1E+01	18	8E-01	300	5E-02		
Total TEQ_BAP	50	52	96%	0.000051	43.3	13.0	0.00447	0.0387	--	3E-04	NC	97.3%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	4.20E-08	2.92E-04	4.08E-05	9.12E-07	4.81E-06	5.05E-05	8E-06	8E-01	2.5%	47.3%	--	NC	--	NC	5.00E-06	8E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.968	2	1.29	234	8E-07	4E-03	0.2%	0.2%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	97.4	30.0	49	--	80	NC	4E-01	--	21.9%	115	3E-01	1700	2E-02	39	8E-01		
Mercury	43	51	84%	0.0037	23.6	0.675	0.13	--	16.8	NC	4E-02	--	2.4%	0.3	2E+00	0.1	7E+00	1.7	4E-01		
Antimony	34	51	67%	0.017	11	3.07	0.86	--	26.4	NC	1E-01	--	6.8%	5	6E-01	78	4E-02	2	2E+00		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	76	8.78	0.061	173	1220	5E-08	7E-03	0.0%	0.4%	1000	9E-03	--	NC	183	5E-02		
Cadmium	52	53	98%	0.167	2.9	1.13	0.7	844	4.6	1E-09	2E-01	0.0%	14.4%	32	4E-02	140	8E-03	0.81	1E+00		
MCPA	13	24	54%	0.29	1.2	0.757	0.761	--	34.3	NC	2E-02	--	1.292%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	14	1.87	0.0039	--	16400	NC	1E-04	--	0.01%	1.2	2E+00	29	6E-02	356	5E-03		
Silver	46	53	87%	0.0249	44.8	9.95	0.2	--	230	NC	4E-02	--	2.5%	560	2E-02	--	NC	119	8E-02		
Zinc	53	53	100%	42	1860	496	215	--	22800	NC	2E-02	--	1.3%	160	3E+00	120	4E+00	411	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-04				Hazard Index		4E+01		1E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.359	0.193	5.295	--	7E-06	NC	100%	--	20.8	2E-02						
Total Radionuclide Risk										7E-06				Sum of Fractions		2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-04											
No Action Alternative Total Hazard Index										2E+00											

Table B3-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0279	0.017	0.232	1.1	1E-07	3E-02	2.8%	3.5%	40	7E-04	500	6E-05	0.064	4E-01		
Benzo(a)pyrene	49	53	92%	0.0012	0.102	0.0315	0.00447	0.0387	--	8E-07	NC	--	--	1.5	2E-02	18	2E-03	310	1E-04		
Benzo(a)anthracene	46	53	87%	0.0006	0.083	0.0187	0.00447	0.387	--	5E-08	NC	--	--	1.5	1E-02	18	1E-03	50	4E-04		
Benzo(b)fluoranthene	50	53	94%	0.00022	0.23	0.0550	0.00447	0.387	--	1E-07	NC	--	--	1.2	5E-02	18	3E-03	150	4E-04		
Benzo(k)fluoranthene	33	43	77%	0.001	0.083	0.0174	0.00447	0.387	--	4E-08	NC	--	--	1.2	1E-02	18	1E-03	310	6E-05		
Chrysene	50	53	94%	0.00028	0.16	0.0346	0.00447	3.87	--	9E-09	NC	--	--	1.2	3E-02	18	2E-03	76	5E-04		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	0.034	0.0059	0.00447	0.113	--	5E-08	NC	--	--	1.2	5E-03	18	3E-04	140	4E-05		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	0.34	0.0604	0.00447	0.387	--	2E-07	NC	--	--	1.2	5E-02	18	3E-03	300	2E-04		
Total TEQ_BAP	50	52	96%	0.000051	0.188	0.0873	0.00447	0.0387	--	2E-06	NC	51.8%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	0.000000042	0.00001849	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	28.2%	16.0%	--	NC	--	NC	5.00E-06	1E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.9680	2	1.29	234	8E-07	4E-03	17.2%	0.6%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	53.1	27.3800	49	--	80	NC	3E-01	--	46.6%	115	2E-01	1700	2E-02	39	7E-01		
Mercury	43	51	84%	0.0037	0.4	0.1280	0.13	--	16.8	NC	8E-03	--	1.0%	0.3	4E-01	0.1	1E+00	1.7	8E-02		
Antimony	34	51	67%	0.017	11	1.1110	0.86	--	26.4	NC	4E-02	--	5.7%	5	2E-01	78	1E-02	2	6E-01		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	0.38	0.0455	0.061	173	1220	3E-10	4E-05	0.0%	0.0%	1000	5E-05	--	NC	183	2E-04		
Cadmium	52	53	98%	0.167	2.1	0.6870	0.7	844	4.6	8E-10	1E-01	0.0%	20.3%	32	2E-02	140	5E-03	0.81	8E-01		
MCPA	13	24	54%	0.29	0.761	0.6536	0.761	--	34.3	NC	2E-02	--	2.6%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	0.13	0.0240	0.0039	--	16400	NC	1E-06	--	0.0%	1.2	2E-02	29	8E-04	356	7E-05		
Silver	46	53	87%	0.0249	22	4.2220	0.2	--	230	NC	2E-02	--	2.5%	560	8E-03	--	NC	119	4E-02		
Zinc	53	53	100%	42	750	197.2000	215	--	22800	NC	9E-03	--	1.2%	160	1E+00	120	2E+00	411	5E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										4E-06				Hazard Index*		2E+00		3E+00		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.3590	0.193	5.295	--	7E-06	NC	100%	--	20.8	2E-02						
Total Radionuclide Risk										7E-06				Sum of Fractions		2E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										1E-05											
Conservation of Natural Resources Alternative Total Hazard Index										7E-01											

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans

Table B3-3 Summary of Residential Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B3-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	0.0012	3.5	0.6885	0.017	0.232	1.1	3E-06	6E-01	42.7%	64.2%	40	2E-02	500	1E-03	0.39	2E+00
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.014	0.00447	0.0387	--	4E-07	NC	--	--	1.5	9E-03	18	8E-04	310	5E-05
Total TEQ_BAP	24	34	71%	0.0000015	0.0	0.01	0.00447	0.0387	--	3E-07	NC	4.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	8.80E-05	1.76E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	3E-01	52.7%	35.8%	--	NC	--	NC	5.00E-06	4E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										7E-06	Hazard Index								
															3E-02		2E-03		5E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.14	0.193	5.295	--	3E-06	NC	100.00%	--	20.8	7E-03				
Total Radionuclide Risk										3E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index											1E+00								

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	0.0012	0.028	0.0084	0.017	0.232	1.1	4E-08	8E-03	2.3%	6.0%	40	2E-04	500	2E-05	0.39	2E-02
Benzo(a)pyrene	18	34	53%	0.000436	0.041	0.0133	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	24	34	71%	0.0000015	0.04524	0.0119	0.00447	0.0387	--	3E-07	NC	19.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	0.00002037	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	78.3%	94.0%	--	NC	--	NC	5.00E-06	1E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06	Hazard Index*								
															9E-03		8E-04		1E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.1410	0.193	5.295	--	3E-06	NC	100.0%	--	20.8	7E-03				
Total Radionuclide Risk										3E-06	Sum of Fractions								
Conservation of Natural Resources Alternative Total Cancer Risk										4E-06									
Conservation of Natural Resources Alternative Total Hazard Index											1E-01								

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Recreational-Ecological	

Table B3-4 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	1.30E+01	26	50%	0.00022	0.043	0.0129	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	17	26	65%	0.0000034	0.0548	0.016	0.00447	0.0387	--	4E-07	NC	4.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	0.000000245	0.00	0.00002469	9.12E-07	4.81E-06	0.0000505	5E-06	5E-01	52.2%	39.5%	--	NC	--	NC	5.00E-06	5E+00
Barium	29	29	100%	4.50E+01	1.00E+03	4.20E+02	3.71E+02	--	1.10E+04	NC	4E-02	--	3.1%	500	8E-01	330	1E+00	89	5E+00
Chromium (Hexavalent)	5	6	83%	0.67	4	5.552	2	1.29	234	4E-06	2E-02	43.7%	1.9%	30	2E-01	2	3E+00	38	1E-01
Lead	29	29	100%	4.9	77	32.860	49	--	80	NC	4E-01	--	33.1%	115	3E-01	1700	2E-02	110	3E-01
Silver	20	30	67%	0.024	150	53.360	0.2	--	230	NC	2E-01	--	18.7%	560	1E-01	--	NC	119	4E-01
Zinc	29	29	100%	43	3400	1039.000	215	--	22800	NC	5E-02	--	3.7%	283	4E+00	355	3E+00	411	3E+00
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-05		Hazard Index		5E+00		7E+00		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	18	94%	0.0137	196	119.50	0.193	5.295	--	2E-03	NC	100.0%	--	20.8	6E+00				
Total Radionuclide Risk										2E-03		Sum of Fractions		6E+00					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-03									
No Action Alternative Total Hazard Index										1E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.000224	0.03	0.0095	0.00447	0.0387	--	2E-07	NC	--	--	1.5	6E-03	18	5E-04	310	3E-05
Total TEQ_BAP	17	26	65%	0.0000034	0.03363	0.0110	0.00447	0.0387	--	3E-07	NC	10.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	0.000000245	0.00002528	0.0000	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	48.4%	26.5%	--	NC	--	NC	5.00E-06	1E+00
Barium	29	29	100%	45	371	162.5000	371	--	11000	NC	1E-02	--	3.1%	500	3E-01	330	5E-01	89	2E+00
Chromium (Hexavalent)	5	6	83%	0.67	2	1.4350	2	1.29	234	1E-06	6E-03	--	1.3%	30	5E-02	2	7E-01	38	4E-02
Lead	29	29	100%	4.9	50.2	25.2900	49	--	80	NC	3E-01	--	67.2%	115	2E-01	1700	1E-02	110	2E-01
Silver	20	30	67%	0.024	8	0.5370	0.2	--	230	NC	2E-03	--	0.5%	560	1E-03	--	NC	119	5E-03
Zinc	29	29	100%	43	215	148.6000	215	--	22800	NC	7E-03	--	1.4%	283	5E-01	355	4E-01	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-06		Hazard Index*		1E+00		2E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	18	94%	0.0137	1.27	0.4190	0.193	5.295	--	8E-06	NC	100.0%	--	20.8	2E-02				
Total Radionuclide Risk										8E-06		Sum of Fractions		2E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										1E-05									
Conservation of Natural Resources Alternative Total Hazard Index										5E-01									

Notes:

% Percent
BTV Background Threshold Value

Table B3-5 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	16	28	57%	0.000175	0.074	0.01716	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05		
Total TEQ_BAP	22	28	79%	0.00000048	0.09661	0.0222	0.00447	0.0387	--	6E-07	NC	--	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	24	24	100%	2.08E-08	0.00002482	0.0000	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	--	100.0%	--	NC	--	NC	5.00E-06	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index				1E-02		1E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	24	26	92%	0.00723	0.993	0.445	0.193	5.295	--	8E-06	NC	100.00%	--	20.8	2E-02						
Total Radionuclide Risk										8E-06		Sum of Fractions				2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05											
No Action Alternative Total Hazard Index												1E-01									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk											
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**							
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient						
Benzo(a)pyrene	16	28	57%	0.000175	0.074	0.0172	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05						
Total TEQ_BAP	22	28	79%	0.00000048	0.09661	0.0222	0.00447	0.0387	--	6E-07	NC	33.9%	--	--	NC	--	NC	--	NC						
Total TEQ_Dioxin	24	24	100%	2.08E-08	0.00002482	0.0000	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	66.1%	100.0%	--	NC	--	NC	5.00E-06	1E+00						
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*						1E-02		1E-03		1E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)											
Cesium-137	24	26	92%	0.00723	0.993	0.4450	0.193	5.295	--	8E-06	NC	100%	--	20.8	2E-02										
Total Radionuclide Risk										8E-06		Sum of Fractions						2E-02							
Conservation of Natural Resources Alternative Total Cancer Risk										1E-05															
Conservation of Natural Resources Alternative Total Hazard Index												1E-01													

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

Table B3-6 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.567	0.59	0.00447	0.0387	--	2E-05	NC	--	--	1.5	4E-01	18	3E-02	310	2E-03
Total TEQ_ BAP	8	11	73%	0.0000068	0.9	0.9	0.00447	0.0387	--	2E-05	NC	100.0%	--	--	NC	--	NC	--	NC
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		4E-01		3E-02		2E-03	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01				
Total Radionuclide Risk										5E-05		Sum of Fractions		1E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										8E-05									
No Action Alternative Total Hazard Index										0E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Benzo(a)pyrene	6	11	55%	0.00083	0.0082	0.0050	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05		
Total TEQ_BAP	8	11	73%	0.0000068	0.01503	0.0063	0.00447	0.0387	--	2E-07	NC	100.0%	--	--	NC	--	NC	--	NC		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-07		Hazard Index*				3E-03		3E-04		2E-05	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	5	5	100%	0.0139	2.84	2.8400	0.193	5.295	--	5E-05	NC	100%	--	20.8	1E-01						
Total Radionuclide Risk										5E-05		Sum of Fractions				1E-01					
Conservation of Natural Resources Alternative Total Cancer Risk										5E-05											
Conservation of Natural Resources Alternative Total Hazard Index										0E+00											

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans

Table B3-7 Summary of Residential Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B3-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	26.4	NC	2E-02	--	1.0%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00760	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	1.5%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	1.90E-06	0.0422	0.00890	0.00447	0.0387	--	2E-07	NC	0.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	4.25E-04	1.16E-04	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	99.1%	97.6%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05	Hazard Index 4E-01 8E-01 2E+01								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	5.30	--	1E-05	NC	99.64%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.36%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										4E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	26.4	NC	2E-02	--	18.0%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00755	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	14.6	681	2E-06	3E-02	--	27.0%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	0.0000019	0.0422	0.00880	0.00447	0.0387	--	2E-07	NC	23.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	0.000007019	0.000003546	9.12E-07	4.81E-06	5.05E-05	7E-07	7E-02	76.4%	55.0%	--	NC	--	NC	5.00E-06	7E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*		4E-01		8E-01		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	5.295	--	1E-05	NC	99.64%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	360	--	5E-08	NC	0.36%	--	22.5	7E-03				
Total Radionuclide Risk										1E-05		Sum of Fractions		4E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										1E-05									
Conservation of Natural Resources Alternative Total Hazard Index										1E-01									

Notes:

%

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

Table B3-8 Summary of Residential Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B3-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	2.2	0.318	0.017	0.232	1.1	1E-06	3E-01	8.0%	11.9%	40	8E-03	500	6E-04	0.39	8E-01
Aroclor 5460	13	38	34%	0.015	0.99	0.0658	0.05	0.232	1.1	3E-07	6E-02	1.7%	2.5%	40	2E-03	500	1E-04	0.39	2E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.9	0.125	0.00447	0.0387	--	3E-06	NC	--	--	1.5	8E-02	18	7E-03	310	4E-04
Cadmium	42	45	93%	0.074	3.97	1.33	0.7	844	4.6	2E-09	3E-01	0.0%	11.9%	32	4E-02	140	9E-03	0.81	2E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	3.1	1.54	2	1.29	234	1E-06	7E-03	7.0%	0.3%	30	5E-02	2	8E-01	38	4E-02
Lead	48	48	100%	3.5	188	51.7	49	--	80	NC	6E-01	--	26.7%	115	4E-01	1700	3E-02	39	1E+00
MCPA	2	12	17%	1.2	2.1	2.10	0.761	--	34.3	NC	6E-02	--	2.5%	--	NC	--	NC	0.61	3E+00
Mercury	36	48	75%	0.006	23	2.63	0.13	--	16.8	NC	2E-01	--	6.5%	0.3	9E+00	0.1	3E+01	1.7	2E+00
Total TEQ_BAP	28	44	64%	4.50E-07	1.35	0.182	0.00447	0.0387	--	5E-06	NC	27.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.85E-04	4.63E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	9E-01	56.0%	37.8%	--	NC	--	NC	5.00E-06	9E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05	Hazard Index								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	5.295	--	9E-06	NC	100.0%	--	20.8	2E-02				
Total Radionuclide Risk										9E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index										2E+00									

Table B3-9 Summary of Residential Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	27	46	59%	0.0015	1.4	0.231	0.017	0.232	1.1	1E-06	2E-01	13.6%	18.0%	40	6E-03	500	5E-04	0.39	6E-01		
Aroclor 5460	13	38	34%	0.015	0.99	0.174	0.05	0.232	1.1	7E-07	2E-01	10.3%	13.6%	40	4E-03	500	3E-04	0.39	4E-01		
Benzo(a)pyrene	24	44	55%	0.00101	0.22	0.0608	0.00447	0.0387	--	2E-06	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04		
Cadmium	42	45	93%	0.074	3	1.03	0.7	844	4.6	1E-09	2E-01	0.0%	19.2%	32	3E-02	140	7E-03	0.81	1E+00		
Chromium (Hexavalent Compo	11	17	65%	0.23	2.9	1.18	2	1.29	234	9E-07	5E-03	12.6%	0.4%	30	4E-02	2	6E-01	38	3E-02		
Lead	48	48	100%	3.5	89	33.4	49	--	80	NC	4E-01	--	35.9%	115	3E-01	1700	2E-02	39	9E-01		
MCPA	2	12	17%	1.2	1.2	0.95	0.761	--	34.3	NC	3E-02	--	2.4%	--	NC	--	NC	0.61	2E+00		
Mercury	36	48	75%	0.006	0.53	0.09	0.13	--	16.8	NC	5E-03	--	0.5%	0.3	3E-01	0.1	9E-01	1.7	5E-02		
Total TEQ_BAP	28	44	64%	0.00000045	0.289	0.1314	0.00447	0.0387	--	3E-06	NC	46.6%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.46E-05	5.91E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	16.9%	10.1%	--	NC	--	NC	5.00E-06	1E+00		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-06			Hazard Index*			7E-01		2E+00		6E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	5.295	--	9E-06	NC	100.00%	--	20.8	2E-02						
Total Radionuclide Risk										9E-06			Sum of Fractions			2E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										2E-05											
Conservation of Natural Resources Alternative Total Hazard Index										1E+00											

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

HH Human Health

LUT Look-Up Table

NC Not Calculated

PRG Preliminary Remediation Goal

RBSL Risk Based Screening Level

Rec-Eco Recreational-Ecological

TEQ_BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin Total Toxicity Equivalence Factor for dioxins/furans

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B3-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	2.9	0.111	0.017	0.232	1.1	5E-07	1E-01	2.8%	5.7%	40	3E-03	500	2E-04	0.39	3E-01
Benzo(a)pyrene	36	62	58%	0.00056	1.8	0.0559	0.00447	0.0387	--	1E-06	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04
Cadmium	59	60	98%	0.096	2.39	0.666	0.7	844	4.6	8E-10	1E-01	0.0%	8.2%	32	2E-02	140	5E-03	0.81	8E-01
Lead	59	60	98%	3.9	210	40.5	49	--	80	NC	5E-01	--	28.5%	115	4E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.91	0.591	0.761	--	34.3	NC	2E-02	--	1.0%	--	NC	--	NC	0.61	1E+00
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	380	NC	2E-03	--	0.1%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	2.68	0.241	0.00447	0.0387	--	6E-06	NC	36.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	0.000000048	3.94E-04	5.03E-05	9.12E-07	4.81E-06	5.05E-05	1E-05	1E+00	60.9%	56.1%	--	NC	--	NC	5.00E-06	1E+01
Zinc	60	60	100%	15	616	180	215	--	22800	NC	8E-03	--	0.4%	160	1E+00	120	2E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-05		Hazard Index		3E+00		2E+00		1E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	0.29	0.0543	0.017	0.232	1.1	2E-07	5E-02	9.7%	6.4%	40	1E-03	500	1E-04	0.39	1E-01
Benzo(a)pyrene	36	62	58%	0.00056	0.15	0.0207	0.00447	0.0387	--	5E-07	NC	22.0%	--	1.5	1E-02	18	1E-03	310	7E-05
Cadmium	59	60	98%	0.096	1.7	0.419	0.7	844	4.6	5E-10	9E-02	0.0%	11.7%	32	1E-02	140	3E-03	0.81	5E-01
Lead	59	60	98%	3.9	210	38.8	49	--	80	NC	5E-01	--	62.4%	115	3E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.761	0.531	0.761	--	34.3	NC	2E-02	--	2.0%	--	NC	--	NC	0.61	9E-01
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	380	NC	2E-03	--	0.2%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	0.218	0.0327	0.00447	0.0387	--	8E-07	NC	34.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	4.80E-08	4.80E-05	6.46E-06	9.12E-07	4.81E-06	0.0000505	1E-06	1E-01	55.5%	16.5%	--	NC	--	NC	5.00E-06	1E+00
Zinc	60	60	100%	15	616	1.53E+02	215	--	22800	NC	7E-03	--	0.9%	160	1E+00	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*		3E+00		1E+00		5E+00	
Conservation of Natural Resources Alternative Total Cancer Risk										2E-06									
Conservation of Natural Resources Alternative Total Hazard Index										8E-01									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PPG

Preliminary Remediation Goal

Table B3-10 Summary of Residential Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.27	0.0977	0.00447	0.0387	--	3E-06	NC	--	--	1.5	7E-02	18	5E-03	310	3E-04
Cadmium	22	22	100%	0.264	0.87	0.648	0.7	844	4.6	8E-10	1E-01	0.01%	14.4%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.21	0.761	--	34.3	NC	4E-02	--	3.6%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	35.4	10.9	0.13	--	16.8	NC	7E-01	--	66.6%	0.3	4E+01	0.1	1E+02	1.7	6E+00
Total TEQ_BAP	21	22	95%	4.30E-07	0.410	0.143	0.00447	0.0387	--	4E-06	NC	70.0%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	1.95E-05	7.58E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	30.0%	15.4%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06		Hazard Index							
												4E+01		1E+02		1E+01			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100.00%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08		Sum of Fractions							
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										5E-06									
No Action Alternative Total Hazard Index												1E+00							

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.058	0.0305	0.00447	0.0387	--	8E-07	NC	--	--	1.5	2E-02	18	2E-03	310	1E-04
Cadmium	22	22	100%	0.264	0.8	0.627	0.7	844	4.6	7E-10	1E-01	0.0%	43.3%	32	2E-02	140	4E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.18	0.761	--	34.3	NC	3E-02	--	10.9%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	0.242	0.1	0.13	--	16.8	NC	8E-03	--	2.6%	0.3	5E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	21	22	95%	4.30E-07	0.076	0.075	0.00447	0.0387	--	2E-06	NC	57.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	7.56E-06	6.87E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	42.5%	43.2%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-06		Hazard Index*							
												5E-01		1E+00		4E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	360	--	5E-08	NC	100%	--	22.5	9E-03				
Total Radionuclide Risk										5E-08		Sum of Fractions							
Conservation of Natural Resources Alternative Total Cancer Risk										3E-06									
Conservation of Natural Resources Alternative Total Hazard Index												3E-01							

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B3-11 Summary of Residential Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	8.25	1.35	2	--	26.4	NC	5E-02	--	0.5%	5	3E-01	78	2E-02	2	7E-01
Aroclor 1254	7	28	25%	0.0095	1.8	0.398	0.017	0.232	1.1	2E-06	4E-01	16.8%	3.5%	40	1E-02	500	8E-04	0.39	1E+00
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.232	1.1	5E-08	1E-02	0.5%	0.1%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	1.3	0.502	0.05	0.232	1.1	2E-06	5E-01	21.1%	4.5%	40	1E-02	500	1E-03	0.39	1E+00
Benzo(a)pyrene	11	28	39%	0.00033	0.21	0.0478	0.00447	0.0387	--	1E-06	NC	--	--	1.5	3E-02	18	3E-03	310	2E-04
Cadmium	26	28	93%	0.058	3.41	0.787	0.7	844	4.6	9E-10	2E-01	0.0%	1.7%	32	2E-02	140	6E-03	0.81	1E+00
Lead	27	28	96%	3.2	3080	681	49	--	80	NC	9E+00	--	83.1%	115	6E+00	1700	4E-01	39	2E+01
Mercury	21	28	75%	0.008	24.3	6.72	0.13	--	16.8	NC	4E-01	--	3.9%	0.3	2E+01	0.1	7E+01	1.7	4E+00
Total TEQ_BAP	20	28	71%	8.10E-06	3.06E-01	1.36E-01	4.47E-03	3.87E-02	--	4E-06	NC	34.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	4.00E-05	1.35E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	3E-01	27.5%	2.6%	--	NC	--	NC	5.00E-06	3E+00
Zinc	28	28	100%	34	1060	266	215	--	22800	NC	1E-02	--	0.1%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-05		Hazard Index		3E+01		7E+01		3E+01	
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-05									
No Action Alternative Total Hazard Index										1E+01									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	0.97	0.466	2	--	26.4	NC	2E-02	--	3.3%	5	9E-02	78	6E-03	2	2E-01
Aroclor 1254	7	28	25%	0.0095	0.024	0.0140	0.017	0.232	1.1	6E-08	1E-02	5.5%	2.3%	40	3E-04	500	3E-05	0.39	4E-02
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.232	1.1	5E-08	1E-02	4.2%	1.8%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	0.05	0.0206	0.05	0.232	1.1	9E-08	2E-02	8.0%	3.5%	40	5E-04	500	4E-05	0.39	5E-02
Benzo(a)pyrene	11	28	39%	0.00033	0.041	0.00570	0.00447	0.0387	--	1E-07	NC	--	--	1.5	4E-03	18	3E-04	310	2E-05
Cadmium	26	28	93%	0.058	0.7	0.446	0.7	844	4.6	5E-10	1E-01	0.0%	17.9%	32	1E-02	140	3E-03	0.81	6E-01
Lead	27	28	96%	3.2	57	27.8	49	--	80	NC	3E-01	--	64.1%	115	2E-01	1700	2E-02	39	7E-01
Mercury	21	28	75%	0.008	0.375	0.132	0.13	--	16.8	NC	8E-03	--	1.5%	0.3	4E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	20	28	71%	8.10E-06	5.89E-02	2.45E-02	4.47E-03	3.87E-02	--	6E-07	NC	57.4%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	2.93E-06	1.32E-06	9.12E-07	4.81E-06	5.05E-05	3E-07	3E-02	24.9%	4.8%	--	NC	--	NC	5.00E-06	3E-01
Zinc	28	28	100%	34	215	94.8	215	--	22800	NC	4E-03	--	0.8%	160	6E-01	120	8E-01	411	2E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06		Hazard Index*		1E+00		2E+00		2E+00	
Conservation of Natural Resources Alternative Total Cancer Risk										1E-06									
Conservation of Natural Resources Alternative Total Hazard Index										5E-01									

Notes:

% Percent
BTV Background Threshold Value
Conc. Concentration

Table B3-12 Summary of Residential Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)
All radionuclide activities are in picocuries per gram (pCi/g)
No radionuclides were evaluated for this exposure area because no radionuclides exceeded Field Action Levels.

Table B3-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	1.9	0.584	0.7	844	4.6	7E-10	1E-01	0.01%	18.9%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	2	15	13%	0.76	1	1.00	0.761	--	34.3	NC	3E-02	--	4.3%	--	NC	--	NC	0.61	2E+00
Mercury	40	43	93%	0.0059	2.2	0.0933	0.13	--	16.8	NC	6E-03	--	0.8%	0.3	3E-01	0.1	9E-01	1.7	5E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.16E-04	2.43E-05	9.12E-07	4.81E-06	5.05E-05	5E-06	5E-01	99.99%	71.5%	--	NC	--	NC	5.00E-06	5E+00
Zinc	41	41	100%	45	4630	685	215	--	22800	NC	3E-02	--	4.5%	160	4E+00	120	6E+00	411	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											5E+00		7E+00		9E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.3%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										7E-06									
No Action Alternative Total Hazard Index											7E-01								

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Cadmium	40	41	98%	0.084	0.84	0.391	0.7	844	4.6	5E-10	9E-02	0.04%	36.0%	32	1E-02	140	3E-03	0.81	5E-01
MCPA	2	15	13%	0.76	1	0.89	0.761	--	34.3	NC	3E-02	--	11.0%	--	NC	--	NC	0.61	1E+00
Mercury	40	43	93%	0.0059	0.213	0.0599	0.13	--	16.8	NC	4E-03	--	1.5%	0.3	2E-01	0.1	6E-01	1.7	4E-02
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.45E-05	5.90E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	99.96%	49.5%	--	NC	--	NC	5.00E-06	1E+00
Zinc	41	41	100%	45	215	105	215	--	22800	NC	5E-03	--	1.9%	160	7E-01	120	9E-01	411	3E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06	Hazard Index*								
											9E-01		1E+00		3E+00				
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	5.295	--	2E-06	NC	99.7%	--	20.8	6E-03				
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	152.7	--	8E-09	NC	0.35%	--	6110	2E-06				
Total Radionuclide Risk										2E-06	Sum of Fractions								
Conservation of Natural Resources Alternative Total Cancer Risk										4E-06									
Conservation of Natural Resources Alternative Total Hazard Index											2E-01								

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B3-13 Summary of Residential Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B3-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	1.9	0.237	0.017	0.232	1.1	1E-06	2E-01	7.0%	7.4%	40	6E-03	500	5E-04	0.39	6E-01
Aroclor 5460	6	19	32%	0.0021	4.2	2.568	0.05	0.232	1.1	1E-05	2E+00	75.5%	80.2%	40	6E-02	500	5E-03	0.39	7E+00
Cadmium	21	22	95%	0.088	1.43	0.545	0.7	844	4.6	6E-10	1E-01	0.00%	4.1%	32	2E-02	140	4E-03	0.81	7E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	2.26E-05	1.23E-05	9.12E-07	4.81E-06	5.05E-05	3E-06	2E-01	17.5%	8.4%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-05		Hazard Index		9E-02		1E-02		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.07%	--	6110	3E-06				
Total Radionuclide Risk										2E-05		Sum of Fractions		4E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index										3E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	0.017	0.009441	0.017	0.232	1.1	4E-08	9E-03	4.0%	4.1%	40	2E-04	500	2E-05	0.39	2E-02
Aroclor 5460	6	19	32%	0.0021	0.05	0.0229	0.05	0.232	1.1	1E-07	2E-02	9.6%	9.8%	40	6E-04	500	5E-05	0.39	6E-02
Cadmium	21	22	95%	0.088	0.86	0.451	0.7	844	4.6	5E-10	1E-01	0.05%	46.3%	32	1E-02	140	3E-03	0.81	6E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	8.47E-06	4.26E-06	9.12E-07	4.81E-06	5.05E-05	9E-07	8E-02	86.4%	39.8%	--	NC	--	NC	5.00E-06	9E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*		1E-02		3E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	5.295	--	2E-05	NC	99.9%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	152.7	--	1E-08	NC	0.07%	--	6110	3E-06				
Total Radionuclide Risk										2E-05		Sum of Fractions		4E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										2E-05									
Conservation of Natural Resources Alternative Total Hazard Index										2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B3-14 Summary of Residential Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B3-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk										
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**						
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient					
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.232	1.1	1E-06	3E-01	32.9%	37.7%	40	8E-03	500	7E-04	0.39	8E-01					
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.232	1.1	7E-08	2E-02	1.7%	1.9%	40	4E-04	500	3E-05	0.25	7E-02					
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.232	1.1	1E-06	2E-01	25.1%	28.8%	40	6E-03	500	5E-04	0.39	6E-01					
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	844	4.6	5E-10	9E-02	0.01%	10.7%	32	1E-02	140	3E-03	0.81	5E-01					
Total TEQ_Dioxin	28	28	100%	2.27E-08	5.04E-05	8.37E-06	9.12E-07	4.81E-06	5.05E-05	2E-06	2E-01	40.4%	20.9%	--	NC	--	NC	5.00E-06	2E+00					
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-06	Hazard Index									3E-02	4E-03		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)										
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	5.295	--	1E-05	NC	99.46%	--	20.8	3E-02									
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.54%	--	22.5	1E-02									
Total Radionuclide Risk										1E-05	Sum of Fractions									4E-02				
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05														
No Action Alternative Total Hazard Index										8E-01														

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.232	1.1	1E-06	3E-01	39.1%	41.1%	40	8E-03	500	7E-04	0.39	8E-01
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.232	1.1	7E-08	2E-02	2.0%	2.1%	40	4E-04	500	3E-05	0.25	7E-02
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.232	1.1	1E-06	2E-01	29.8%	31.3%	40	6E-03	500	5E-04	0.39	6E-01
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	844	4.6	5E-10	9E-02	0.01%	11.7%	32	1E-02	140	3E-03	0.81	5E-01
Total TEQ_Dioxin	28	28	100%	2.27E-08	1.39E-05	5.06E-06	9.12E-07	4.81E-06	5.05E-05	1E-06	1E-01	29.1%	13.8%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-06	Hazard Index* 3E-02 4E-03 3E+00								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	5.295	--	1E-05	NC	99.46%	--	20.8	3E-02				
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	360	--	7E-08	NC	0.54%	--	22.5	1E-02				
Total Radionuclide Risk										1E-05	Sum of Fractions 4E-02								
Conservation of Natural Resources Alternative Total Cancer Risk										2E-05									
Conservation of Natural Resources Alternative Total Hazard Index										7E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B3-15 Summary of Residential Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

Table B3-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	26	31	84%	0.136	14.5	3.58	0.86	--	26.4	NC	1E-01	--	7.0%	5	7E-01	78	5E-02	2	2E+00
Benzo(a)pyrene	16	34	47%	0.0015	2.08	0.353	0.00447	0.0387	--	9E-06	NC	--	--	1.5	2E-01	18	2E-02	310	1E-03
Cadmium	31	31	100%	0.03	2.78	0.534	0.7	844	4.6	6E-10	1E-01	0.0%	6.0%	32	2E-02	140	4E-03	0.81	7E-01
Chromium (Hexavalent)	6	14	43%	0.48	7.1	6.30	2	1.29	234	5E-06	3E-02	26.0%	1.4%	30	2E-01	2	3E+00	38	2E-01
Lead	34	34	100%	0.24	514	128	49	--	80	NC	2E+00	--	82.0%	115	1E+00	1700	8E-02	39	3E+00
Total TEQ_BAP	20	34	59%	1.11E-04	2.611	0.508	0.00447	0.0387	--	1E-05	NC	69.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	16	16	100%	1.14E-08	8.63E-06	3.65E-06	9.12E-07	4.81E-06	5.05E-05	8E-07	7E-02	4.0%	3.7%	--	NC	--	NC	5.00E-06	7E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index							
												2E+00		3E+00		7E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03				
Total Radionuclide Risk										2E-08		Sum of Fractions							
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index												2E+00							

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	26	31	84%	0.136	4.23	1.07	0.86	--	26.4	NC	4E-02	--	7.0%	5	2E-01	78	1E-02	2	5E-01
Benzo(a)pyrene	16	34	47%	0.0015	0.15	0.0380	0.00447	0.0387	--	1E-06	NC	--	--	1.5	3E-02	18	2E-03	310	1E-04
Cadmium	31	31	100%	0.03	0.742	0.365	0.7	844	4.6	4E-10	8E-02	0.0%	13.8%	32	1E-02	140	3E-03	0.81	5E-01
Chromium (Hexavalent)	6	14	43%	0.48	2	1.25	2	1.29	234	1E-06	5E-03	34.9%	0.9%	30	4E-02	2	6E-01	38	3E-02
Lead	34	34	100%	0.24	217	32.4	49	--	80	NC	4E-01	--	70.6%	115	3E-01	1700	2E-02	39	8E-01
Total TEQ_BAP	20	34	59%	0.000111	0.211	0.0521	0.00447	0.0387	--	1E-06	NC	48.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	16	16	100%	1.14E-08	4.56E-06	2.19E-06	9.12E-07	4.81E-06	5.05E-05	5E-07	4E-02	16.4%	7.6%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-06		Hazard Index*							
												6E-01		7E-01		2E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	360	--	2E-08	NC	100.00%	--	22.5	3E-03				
Total Radionuclide Risk										2E-08		Sum of Fractions							
Conservation of Natural Resources Alternative Total Cancer Risk										3E-06									
Conservation of Natural Resources Alternative Total Hazard Index												6E-01							

Notes:

- %
- Percent
- BTV
- Background Threshold Value
- Conc.
- Concentration

Table B3-16 Summary of Residential Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	1.5	0.280	0.017	0.232	1.1	1E-06	3E-01	8.0%	8.5%	40	7E-03	500	6E-04	0.39	7E-01
Aroclor 5460	6	20	30%	0.0016	5.1	2.97	0.05	0.232	1.1	1E-05	3E+00	85.1%	90.2%	40	7E-02	500	6E-03	0.39	8E+00
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0387	--	6E-07	NC	4.1%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	8.93E-06	2.01E-06	9.12E-07	4.81E-06	5.05E-05	4E-07	4E-02	2.8%	1.3%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		9E-02		7E-03		9E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.0%	--	22.5	5E-03				
Total Radionuclide Risk									3E-08		Sum of Fractions		5E-03						
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									2E-05										
No Action Alternative Total Hazard Index									3E+00										

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	0.097	0.0281	0.017	0.232	1.1	1E-07	3E-02	11.8%	42.1%	40	7E-04	500	6E-05	0.39	7E-02
Aroclor 5460	6	20	30%	0.0016	0.05	0.0158	0.05	0.232	1.1	7E-08	1E-02	6.6%	23.7%	40	4E-04	500	3E-05	0.39	4E-02
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0387	--	4E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0387	--	6E-07	NC	60.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	2.86E-06	1.05E-06	9.12E-07	4.81E-06	5.05E-05	2E-07	2E-02	21.3%	34.2%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index* 1E-02 1E-03 3E-01							
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	360	--	3E-08	NC	100.00%	--	22.5	5E-03				
Total Radionuclide Risk									3E-08		Sum of Fractions 5E-03								
Conservation of Natural Resources Alternative Total Cancer Risk									1E-06										
Conservation of Natural Resources Alternative Total Hazard Index									6E-02										

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B3-17 Summary of Residential Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	870	422	0.86	--	26.4	NC	2E+01	--	13.7%	5	8E+01	78	5E+00	2	2E+02
Benzo(a)pyrene	12	22	55%	0.00083	0.015	0.00790	0.00447	0.0387	--	2E-07	NC	--	--	1.5	5E-03	18	4E-04	310	3E-05
Cadmium	22	26	85%	0.103	1.36	1.02	0.7	844	4.6	1E-09	2E-01	0.03%	0.2%	32	3E-02	140	7E-03	0.81	1E+00
Lead	27	27	100%	7.4	27000	8033	49	--	80	NC	1E+02	--	85.8%	115	7E+01	1700	5E+00	39	2E+02
Total TEQ_BAP	19	22	86%	8.70E-07	0.0202	0.00887	0.00447	0.0387	--	2E-07	NC	5.04%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	2.82E-05	2.08E-05	9.12E-07	4.81E-06	5.05E-05	4E-06	4E-01	94.93%	0.4%	--	NC	--	NC	5.00E-06	4E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
											2E+02					1E+01			4E+02
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	94.87%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	360	--	7E-08	NC	5.13%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										6E-06									
No Action Alternative Total Hazard Index											1E+02								

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	17	23	74%	0.11	0.957	0.579	0.86	--	26.4	NC	2E-02	--	2.9%	5	1E-01	78	7E-03	2	3E-01
Benzo(a)pyrene	12	22	55%	0.00083	0.014	0.00472	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05
Cadmium	22	26	85%	0.103	1.36	0.571	0.7	844	4.6	7E-10	1E-01	0.11%	16.6%	32	2E-02	140	4E-03	0.81	7E-01
Lead	27	27	100%	7.4	121	44.8	49	--	80	NC	6E-01	--	74.9%	115	4E-01	1700	3E-02	39	1E+00
Total TEQ_BAP	19	22	86%	8.70E-07	0.0188	0.00652	0.00447	0.0387	--	2E-07	NC	28.01%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	19	20	95%	1.86E-08	5.38E-06	2.08E-06	9.12E-07	4.81E-06	5.05E-05	4E-07	4E-02	71.88%	5.5%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									6E-07	Hazard Index*								
											5E-01					4E-02			3E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	5.295	--	1E-06	NC	94.87%	--	20.8	3E-03				
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	360	--	7E-08	NC	5.13%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06	Sum of Fractions								
Conservation of Natural Resources Alternative Total Cancer Risk										2E-06									
Conservation of Natural Resources Alternative Total Hazard Index											7E-01								

Notes:

- %
- BTV
- Conc.
- Eco
- Percent
- Background Threshold Value
- Concentration
- Ecological

Table B3-18 Summary of Residential Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B3-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.00444	0.00447	0.0387	--	1E-07	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	26	26	100%	0.307	1.32	0.641	0.7	844	4.6	8E-10	1E-01	0.004%	7.3%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	8	15	53%	0.29	1.4	1	0.761	--	34.3	NC	3E-02	--	1.5%	--	NC	--	NC	0.61	2E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.0262	0.00447	0.0387	--	7E-07	NC	3.548%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	1.87E-04	8.85E-05	9.12E-07	4.81E-06	5.05E-05	2E-05	2E+00	96.45%	91.3%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-05		Hazard Index		2E-02		5E-03		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										2E+00									

Panel B. Conservation of Natural Resources Alternative - Residential Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Residential Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.01332	0.00447	0.0387	--	3E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Cadmium	26	26	100%	0.307	0.754	0.581	0.7	844	4.6	7E-10	1E-01	0.04%	65.9%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	8	15	53%	0.29	1.4	0.898	0.761	--	34.3	NC	3E-02	--	13.65%	--	NC	--	NC	0.61	1E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.046	0.00447	0.0387	--	1E-06	NC	74.23%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	4.92E-06	1.98E-06	9.12E-07	4.81E-06	5.05E-05	4E-07	4E-02	25.7%	20.5%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index*		3E-02		5E-03		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	5.295	--	2E-06	NC	96.71%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	360	--	5E-08	NC	3.29%	--	22.5	9E-03				
Total Radionuclide Risk										2E-06		Sum of Fractions		1E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										3E-06									
Conservation of Natural Resources Alternative Total Hazard Index										2E-01									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B3-19 Summary of Residential Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative - Residential Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-1 Summary of Recreational Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0528	0.017	0.564	5.14	9E-08	1E-02	0.3%	0.2%	40	1E-03	500	1E-04	0.25	2E-01
Benzo(a)pyrene	39	83	47%	0.00077	8.8	0.821	0.00447	0.0939	--	9E-06	NC	--	--	1.5	5E-01	18	5E-02	310	3E-03
Total TEQ_BAP	48	77	62%	0.000012	13.4	2.62	0.00447	0.0939	--	3E-05	NC	97.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	8.39E-05	1.22E-05	9.12E-07	1.80E-05	2.36E-04	7E-07	5E-02	2.4%	0.9%	--	NC	--	NC	5.00E-06	2E+00
Antimony	42	85	49%	0.078	1010	64.4	0.86	--	123	NC	5E-01	--	8.7%	5	1E+01	78	8E-01	2	3E+01
Cadmium	82	85	96%	0.038	5.01	0.736	0.7	11800	9.06	6E-11	8E-02	0.000%	1.4%	32	2E-02	140	5E-03	0.81	9E-01
Lead	85	85	100%	2.6	30200	1916	49	--	360	NC	5E+00	--	88.8%	115	2E+01	1700	1E+00	39	5E+01
Phenanthrene	39	83	47%	0.00074	18	1.55	0.0039	--	77000	NC	2E-05	--	0.000%	1.2	1E+00	29	5E-02	356	4E-03
Zinc	86	86	100%	35.3	1300	241	215	--	107000	NC	2E-03	--	0.04%	160	2E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-05		Hazard Index		3E+01		4E+00		9E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.0097	0.0264	0.00427	0.00556	12.69	--	3E-08	NC	1.35%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	6.59	1.39	0.193	58.1	--	2E-06	NC	96.44%	--	20.8	7E-02				
Strontium-90	28	44	64%	0.138	14.3	2.44	0.075	4457	--	5E-08	NC	2.20%	--	22.5	1E-01				
Total Radionuclide Risk										2E-06		Sum of Fractions		2E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-05									
No Action Alternative Total Hazard Index												6E+00							

Table B4-1 Summary of Recreational Cancer Risks and Non-cancer Hazards for RMHF, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1260	42	71	59%	0.00082	0.4	0.0145	0.017	0.564	5.14	3E-08	3E-03	1.3%	1.6%	40	4E-04	500	3E-05	0.25	6E-02
Benzo(a)pyrene	39	83	47%	0.00077	0.5	0.0474	0.00447	0.0939	--	5E-07	NC	--	--	1.5	3E-02	18	3E-03	310	2E-04
Total TEQ_BAP	48	77	62%	0.000012	0.809	0.146	0.00447	0.0939	--	2E-06	NC	80.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	54	54	100%	1.37E-09	1.39E-05	6.15E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	17.8%	15.1%	--	NC	--	NC	5.00E-06	1E+00
Antimony	42	85	49%	0.0776	4.63	0.719	0.86	--	123	NC	6E-03	--	3.4%	5	1E-01	78	9E-03	2	4E-01
Cadmium	82	85	96%	0.038	5.01	0.72	0.7	11800	9.06	6E-11	8E-02	0.00%	46.2%	32	2E-02	140	5E-03	0.81	9E-01
Lead	85	85	100%	2.6	115	20.85	49	--	360	NC	6E-02	--	33.7%	115	2E-01	1700	1E-02	39	5E-01
Phenanthrene	39	83	47%	0.00074	0.53	0.0651	0.0039	--	77000	NC	NC	--	--	1.2	5E-02	29	2E-03	356	2E-04
Zinc	86	86	100%	35.3	1300	220	215	--	107000	NC	NC	--	--	160	1E+00	120	2E+00	411	5E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										2E-06		Hazard Index*		2E+00		2E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	47	11%	0.0097	0.0264	0.00427	0.00556	12.69	--	3E-08	NC	1.35%	--	692	6E-06				
Cesium-137	47	47	100%	0.0196	6.59	1.39	0.193	58.1	--	2E-06	NC	96.4%	--	20.8	7E-02				
Strontium-90	28	44	64%	0.138	14.3	2.44	0.075	4457	--	5E-08	NC	2.20%	--	22.5	1E-01				
Total Radionuclide Risk										2E-06		Sum of Fractions		2E-01					
Conservation of Natural Resources Alternative Total Cancer Risk										4E-06									
Conservation of Natural Resources Alternative Total Hazard Index												2E-01							

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

HH Human Health

LUT Look-Up Table

NC Not Calculated

PRG Preliminary Remediation Goal

RBSL Risk Based Screening Level

Rec-Eco Recreational-Ecological

TEQ_BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin Total Toxicity Equivalence Factor for dioxins/furans

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-2 Summary of Recreational Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	2.60E+01	50	52%	0.00326	2.6	0.0668	0.017	0.564	5.14	1E-07	1E-02	1.1%	2.3%	40	2E-03	500	1E-04	0.39	2E-01
Aroclor 5460	29	36	81%	0.0012	3.3	0.562	0.05	0.564	5.14	1E-06	1E-01	9.2%	19.4%	40	1E-02	500	1E-03	0.39	1E+00
Total TEQ_BAP	38	49	78%	0.00022	1.49	0.599	0.00447	0.0939	--	6E-06	NC	59.0%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	31	31	100%	1.87E-07	2.01E-04	5.40E-05	9.12E-07	1.80E-05	2.36E-04	3E-06	2E-01	27.7%	40.5%	--	NC	--	NC	5.00E-06	1E+01
Benzo(a)anthracene	31	49	63%	0.000271	1	0.269	0.00447	0.939	--	3E-07	NC	--	--	1.5	2E-01	18	1E-02	50	5E-03
Benzo(a)pyrene	31	49	63%	0.000249	0.93	0.285	0.00447	0.0939	--	3E-06	NC	--	--	1.5	2E-01	18	2E-02	310	9E-04
Benzo(b)fluoranthene	36	49	73%	0.000494	1.5	0.457	0.00447	0.939	--	5E-07	NC	--	--	1.2	4E-01	18	3E-02	150	3E-03
Benzo(k)fluoranthene	18	38	47%	0.00061	0.63	0.231	0.00447	0.939	--	2E-07	NC	--	--	1.2	2E-01	18	1E-02	310	7E-04
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.18	0.0306	0.00447	0.275	--	1E-07	NC	--	--	1.2	3E-02	18	2E-03	140	2E-04
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.65	0.178	0.00447	0.939	--	2E-07	NC	--	--	1.2	1E-01	18	1E-02	300	6E-04
Chromium (Hexavalent)	13	22	59%	0.32	4.8	2.00	2	6.27	1090	3E-07	2E-03	2.9%	0.3%	30	7E-02	2	1E+00	38	5E-02
Lead	53	53	100%	2.9	78.3	16.4	49	--	360	NC	5E-02	--	8.1%	115	1E-01	1700	1E-02	39	4E-01
Mercury	53	65	82%	0.0073	35	4.61	0.13	--	78.2	NC	6E-02	--	10.5%	0.3	2E+01	0.1	5E+01	1.7	3E+00
Antimony	25	49	51%	0.014	3.22	0.619	0.86	--	123	NC	5E-03	--	0.9%	5	1E-01	78	8E-03	2	3E-01
Cadmium	50	50	100%	0.097	2.39	0.888	0.7	11800	9.06	8E-11	1E-01	0.0%	17.4%	32	3E-02	140	6E-03	0.81	1E+00
Molybdenum	49	50	98%	0.19	23.2	3.22	3.2	--	1780	NC	2E-03	--	0.3%	2	2E+00	--	NC	2.6	1E+00
Zinc	50	50	100%	35	796	228	215	--	107000	NC	2E-03	--	0.4%	160	1E+00	120	2E+00	411	6E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-05		Hazard Index		2E+01		5E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cobalt-60	5	46	11%	0.00668	0.048	0.0023	0.00556	12.69	--	2E-08	NC	0.14%	--	692	3E-06				
Cesium-137	42	46	91%	0.0105	46.4	7.32	0.193	58.1	--	1E-05	NC	99.51%	--	20.8	4E-01				
Plutonium-239/240	15	34	44%	0.00315	0.0515	0.0132	0.0142	9020	--	1E-10	NC	0.00%	--	6110	2E-06				
Strontium-90	17	40	43%	0.077	21.3	1.95	0.075	4457	--	4E-08	NC	0.35%	--	22.5	9E-02				
Total Radionuclide Risk										1E-05		Sum of Fractions		4E-01					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-05									
No Action Alternative Total Hazard Index										6E-01									

Table B4-2 Summary of Recreational Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1254	26	50	52%	0.00326	0.167	0.0266	0.017	0.564	5.14	5E-08	5E-03	1.5%	3.8%	40	7E-04	500	5E-05	0.39	7E-02		
Aroclor 5460	29	36	81%	0.0012	0.226	0.0581	0.05	0.564	5.14	1E-07	1E-02	3.2%	8.2%	40	1E-03	500	1E-04	0.39	1E-01		
Total TEQ_BAP	38	49	78%	0.00022	0.826	0.248	0.00447	0.0939	--	3E-06	NC	82.2%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	31	31	100%	1.87E-07	2.54E-05	3.51E-06	9.12E-07	1.80E-05	2.36E-04	2E-07	1E-02	6.1%	10.8%	--	NC	--	NC	5.00E-06	7E-01		
Benzo(a)anthracene	31	49	63%	0.000271	0.467	0.0814	0.00447	0.939	--	9E-08	NC	--	--	1.5	5E-02	18	5E-03	50	2E-03		
Benzo(a)pyrene	31	49	63%	0.000249	0.3	0.0563	0.00447	0.0939	--	6E-07	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04		
Benzo(b)fluoranthene	36	49	73%	0.000494	0.478	0.0887	0.00447	0.939	--	9E-08	NC	--	--	1.2	7E-02	18	5E-03	150	6E-04		
Benzo(k)fluoranthene	18	38	47%	0.00061	0.051	0.00953	0.00447	0.939	--	1E-08	NC	--	--	1.2	8E-03	18	5E-04	310	3E-05		
Dibenzo(a,h)anthracene	18	49	37%	0.00032	0.0511	0.0119	0.00447	0.275	--	4E-08	NC	--	--	1.2	1E-02	18	7E-04	140	8E-05		
Indeno(1,2,3-cd)pyrene	27	49	55%	0.000441	0.119	0.0142	0.00447	0.939	--	2E-08	NC	--	--	1.2	1E-02	18	8E-04	300	5E-05		
Chromium (Hexavalent)	13	22	59%	0.32	3	1.43	2	6.27	1090	2E-07	1E-03	7.1%	1.0%	30	5E-02	2	7E-01	38	4E-02		
Lead	53	53	100%	2.9	49	15.6	49	--	360	NC	4E-02	--	31.5%	115	1E-01	1700	9E-03	39	4E-01		
Mercury	53	65	82%	0.0073	0.97	0.218	0.13	--	78.2	NC	3E-03	--	2.0%	0.3	7E-01	0.1	2E+00	1.7	1E-01		
Antimony	25	49	51%	0.014	2.33	0.489	0.86	--	123	NC	4E-03	--	2.9%	5	1E-01	78	6E-03	2	2E-01		
Cadmium	50	50	100%	0.097	2.2	0.479	0.7	11800	9.06	4E-11	5E-02	0.0%	38.5%	32	1E-02	140	3E-03	0.81	6E-01		
Molybdenum	49	50	98%	0.19	3.2	0.863	3.2	--	1780	NC	5E-04	--	0.4%	2	4E-01	--	NC	2.6	3E-01		
Zinc	50	50	100%	35	398	146	215	--	107000	NC	1E-03	--	1.0%	160	9E-01	120	1E+00	411	4E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										3E-06		Hazard Index*				3E+00		4E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cobalt-60	5	46	11%	0.0056	0.0114	0.00281	0.00556	12.69	--	2E-08	NC	0.63%	--	692	4E-06						
Cesium-137	42	46	91%	0.0105	11.3	2.01	0.193	58.1	--	3E-06	NC	99.1%	--	20.8	1E-01						
Plutonium-239/240	15	34	44%	0.00315	0.0213	0.00774	0.0142	9020	--	9E-11	NC	0.00%	--	6110	1E-06						
Strontium-90	17	40	43%	0.075	2.39	0.41	0.075	4457	--	9E-09	NC	0.26%	--	22.5	2E-02						
Total Radionuclide Risk										3E-06		Sum of Fractions				1E-01					
Conservation of Natural Resources Alternative Total Cancer Risk										7E-06											
Conservation of Natural Resources Alternative Total Hazard Index										1E-01											

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value

Table B4-2 Summary of Recreational Cancer Risks and Non-cancer Hazards for SRE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-3 Summary of Recreational Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0290	0.017	0.564	5.14	5E-08	6E-03	0.0%	1.3%	40	7E-04	500	6E-05	0.064	5E-01		
Benzo(a)pyrene	49	53	92%	0.0012	31	6.20	0.00447	0.0939	--	7E-05	NC	--	--	1.5	4E+00	18	3E-01	310	2E-02		
Benzo(a)anthracene	46	53	87%	0.0006	16	1.86	0.00447	0.939	--	2E-06	NC	--	--	1.5	1E+00	18	1E-01	50	4E-02		
Benzo(b)fluoranthene	50	53	94%	0.00022	26	5.77	0.00447	0.939	--	6E-06	NC	--	--	1.2	5E+00	18	3E-01	150	4E-02		
Benzo(k)fluoranthene	33	43	77%	0.001	15	3.84	0.00447	0.939	--	4E-06	NC	--	--	1.2	3E+00	18	2E-01	310	1E-02		
Chrysene	50	53	94%	0.00028	22	2.8	0.00447	9.39	--	3E-07	NC	--	--	1.2	2E+00	18	2E-01	76	4E-02		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	1.6	0.210	0.00447	0.275	--	8E-07	NC	--	--	1.2	2E-01	18	1E-02	140	2E-03		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	77	14.4	0.00447	0.939	--	2E-05	NC	--	--	1.2	1E+01	18	8E-01	300	5E-02		
Total TEQ_BAP	50	52	96%	0.000051	43.3	13.0	0.00447	0.0939	--	1E-04	NC	98.2%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	4.20E-08	2.92E-04	4.08E-05	9.12E-07	1.80E-05	2.36E-04	2E-06	2E-01	1.6%	39.2%	--	NC	--	NC	5.00E-06	8E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.968	2	6.27	1090	2E-07	9E-04	0.1%	0.2%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	97.4	30.0	49	--	360	NC	8E-02	--	18.9%	115	3E-01	1700	2E-02	39	8E-01		
Mercury	43	51	84%	0.0037	23.6	0.675	0.13	--	78.2	NC	9E-03	--	2.0%	0.3	2E+00	0.1	7E+00	1.7	4E-01		
Antimony	34	51	67%	0.017	11	3.07	0.86	--	123	NC	2E-02	--	5.7%	5	6E-01	78	4E-02	2	2E+00		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	76	8.78	0.061	479	5700	2E-08	2E-03	0.0%	0.3%	1000	9E-03	--	NC	183	5E-02		
Cadmium	52	53	98%	0.167	2.9	1.13	0.7	11800	9.06	1E-10	1E-01	0.0%	28.2%	32	4E-02	140	8E-03	0.81	1E+00		
MCPA	13	24	54%	0.29	1.2	0.757	0.761	--	160	NC	5E-03	--	1.1%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	14	1.87	0.0039	--	77000	NC	2E-05	--	0.0%	1.2	2E+00	29	6E-02	356	5E-03		
Silver	46	53	87%	0.0249	44.8	9.95	0.2	--	1070	NC	9E-03	--	2.1%	560	2E-02	--	NC	119	8E-02		
Zinc	53	53	100%	42	1860	496	215	--	107000	NC	5E-03	--	1.1%	160	3E+00	120	4E+00	411	1E+00		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-04				Hazard Index		4E+01		1E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.359	0.193	58.1	--	6E-07	NC	100%	--	20.8	2E-02						
	Total Radionuclide Risk										6E-07		Sum of Fractions		2E-02						
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-04										
	No Action Alternative Total Hazard Index										4E-01										

Table B4-3 Summary of Recreational Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Aroclor 1248	5	50	10%	0.0016	0.34	0.0279	0.017	0.564	5.14	5E-08	5E-03	3.4%	2.7%	40	7E-04	500	6E-05	0.064	4E-01		
Benzo(a)pyrene	49	53	92%	0.0012	0.102	0.0315	0.00447	0.0939	--	3E-07	NC	--	--	1.5	2E-02	18	2E-03	310	1E-04		
Benzo(a)anthracene	46	53	87%	0.0006	0.083	0.0187	0.00447	0.939	--	2E-08	NC	--	--	1.5	1E-02	18	1E-03	50	4E-04		
Benzo(b)fluoranthene	50	53	94%	0.00022	0.23	0.0550	0.00447	0.939	--	6E-08	NC	--	--	1.2	5E-02	18	3E-03	150	4E-04		
Benzo(k)fluoranthene	33	43	77%	0.001	0.083	0.0174	0.00447	0.939	--	2E-08	NC	--	--	1.2	1E-02	18	1E-03	310	6E-05		
Chrysene	50	53	94%	0.00028	0.16	0.0346	0.00447	9.39	--	4E-09	NC	--	--	1.2	3E-02	18	2E-03	76	5E-04		
Dibenzo(a,h)anthracene	27	53	51%	0.00045	0.034	0.00587	0.00447	0.275	--	2E-08	NC	--	--	1.2	5E-03	18	3E-04	140	4E-05		
Indeno(1,2,3-cd)pyrene	50	52	96%	0.00029	0.34	0.06041	0.00447	0.939	--	6E-08	NC	--	--	1.2	5E-02	18	3E-03	300	2E-04		
Total TEQ_BAP	50	52	96%	0.000051	0.188	0.0873	0.00447	0.0939	--	9E-07	NC	63.6%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	32	32	100%	4.20E-08	1.85E-05	5.92E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	22.5%	12.3%	--	NC	--	NC	5.00E-06	1E+00		
Chromium (Hexavalent)	21	24	88%	0.32	2.6	0.968	2	6.27	1090	2E-07	9E-04	10.6%	0.4%	30	3E-02	2	5E-01	38	3E-02		
Lead	51	51	100%	6.4	53.1	27.4	49	--	360	NC	8E-02	--	37.3%	115	2E-01	1700	2E-02	39	7E-01		
Mercury	43	51	84%	0.0037	0.4	0.128	0.13	--	78.2	NC	2E-03	--	0.8%	0.3	4E-01	0.1	1E+00	1.7	8E-02		
Antimony	34	51	67%	0.017	11	1.11	0.86	--	123	NC	9E-03	--	4.4%	5	2E-01	78	1E-02	2	6E-01		
Bis(2-ethylhexyl)phthalate	30	47	64%	0.0067	0.38	0.0455	0.061	479	5700	9E-11	8E-06	0.0%	0.0%	1000	5E-05	--	NC	183	2E-04		
Cadmium	52	53	98%	0.167	2.1	0.687	0.7	11800	9.06	6E-11	8E-02	0.0%	37.2%	32	2E-02	140	5E-03	0.81	8E-01		
MCPA	13	24	54%	0.29	0.761	0.654	0.761	--	160	NC	4E-03	--	2.0%	--	NC	--	NC	0.61	1E+00		
Phenanthrene	49	53	92%	0.00077	0.13	0.02396	0.0039	--	77000	NC	3E-07	--	0.0%	1.2	2E-02	29	8E-04	356	7E-05		
Silver	46	53	87%	0.0249	22	4.22	0.2	--	1070	NC	4E-03	--	1.9%	560	8E-03	--	NC	119	4E-02		
Zinc	53	53	100%	42	750	197	215	--	107000	NC	2E-03	--	0.9%	160	1E+00	120	2E+00	411	5E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06				Hazard Index*		2E+00		3E+00		5E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	36	37	97%	0.0183	0.911	0.359	0.193	58.1	--	6E-07	NC	100%	--	20.8	2E-02						
	Total Radionuclide Risk										6E-07		Sum of Fractions		2E-02						
	Conservation of Natural Resources Alternative Total Cancer Risk										2E-06										
	Conservation of Natural Resources Alternative Total Hazard Index										2E-01										

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans

Table B4-3 Summary of Recreational Cancer Risks and Non-cancer Hazards for 17th Street Pond, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-4 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	1.20E-03	3.5	0.6885	0.017	0.564	5.14	1E-06	1E-01	52.4%	64.2%	40	2E-02	500	1E-03	0.39	2E+00
Benzo(a)pyrene	18	34	53%	4.36E-04	0.041	0.014	0.00447	0.0939	--	1E-07	NC	--	--	1.5	9E-03	18	8E-04	310	5E-05
Total TEQ_BAP	24	34	71%	1.50E-06	0.0	0.01	0.00447	0.0939	--	1E-07	NC	5.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	8.80E-05	1.76E-05	9.12E-07	1.80E-05	2.36E-04	1E-06	7E-02	42.0%	35.8%	--	NC	--	NC	5.00E-06	4E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index							
												3E-02		2E-03		5E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.14	0.193	58.1	--	2E-07	NC	100.00%	--	20.8	7E-03				
	Total Radionuclide Risk									2E-07		Sum of Fractions							
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									3E-06									
	No Action Alternative Total Hazard Index											2E-01							

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	7	36	19%	1.20E-03	0.028	0.0084	0.017	0.564	5.14	1E-08	2E-03	3.1%	6.0%	40	2E-04	500	2E-05	0.39	2E-02
Benzo(a)pyrene	18	34	53%	4.36E-04	0.041	0.0133	0.00447	0.0939	--	1E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	24	34	71%	1.50E-06	0.045	0.012	0.00447	0.0939	--	1E-07	NC	26.8%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.63E-08	2.04E-05	5.98E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	70.1%	94.0%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-07		Hazard Index*							
												9E-03		8E-04		1E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	20	85%	0.0107	0.485	0.141	0.193	58.1	--	2E-07	NC	100.0%	--	20.8	7E-03				
	Total Radionuclide Risk									2E-07		Sum of Fractions							
	Conservation of Natural Resources Alternative Total Cancer Risk									7E-07									
	Conservation of Natural Resources Alternative Total Hazard Index											3E-02							

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Table B4-4 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NW, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-5 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	1.30E+01	26	50%	2.24E-04	0.043	0.0129	0.00447	0.0939	--	1E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Total TEQ_BAP	17	26	65%	3.40E-06	0.0548	0.016	0.00447	0.0939	--	2E-07	NC	7.7%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	2.45E-07	7.08E-05	2.47E-05	9.12E-07	1.80E-05	2.36E-04	1E-06	1E-01	63.0%	39.1%	--	NC	--	NC	5.00E-06	5E+00
Barium	29	29	100%	4.50E+01	1.00E+03	4.20E+02	3.71E+02	--	5.19E+04	NC	8E-03	--	3.0%	500	8E-01	330	1E+00	8.90E+01	5E+00
Chromium (Hexavalent)	5	6	83%	0.67	4	4	2	6.27	1090	6E-07	4E-03	--	1.4%	30	1E-01	2	2E+00	38	1E-01
Lead	29	29	100%	4.9	77	33	49	--	360	NC	9E-02	--	34.2%	115	3E-01	1700	2E-02	110	3E-01
Silver	20	30	67%	0.024	150	53	0.2	--	1070	NC	5E-02	--	18.7%	560	1E-01	--	NC	119	4E-01
Zinc	29	29	100%	43	3400	1039	215	--	107000	NC	1E-02	--	3.6%	283	4E+00	355	3E+00	411	3E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index		5E+00		6E+00		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	18	94%	0.0137	196	119.50	0.193	58.1	--	2E-04	NC	100.00%	--	20.8	6E+00				
	Total Radionuclide Risk									2E-04		Sum of Fractions		6E+00					
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									2E-04									
	No Action Alternative Total Hazard Index									3E-01									

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	2.24E-04	0.03	0.0095	0.00447	0.0939	--	1E-07	NC	--	--	1.5	6E-03	18	5E-04	310	3E-05
Total TEQ_BAP	17	26	65%	3.40E-06	0.03363	0.01095	0.00447	0.0939	--	1E-07	NC	16.8%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	2.45E-07	2.53E-05	6.29E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	50.3%	25.8%	--	NC	--	NC	5.00E-06	1E+00
Barium	29	29	100%	45	371	163	371	--	5.19E+04	NC	3E-03	--	3.0%	500	3E-01	330	5E-01	89	2E+00
Chromium (Hexavalent)	5	6	83%	0.67	2	1.435	2	6.27	1090	2E-07	1E-03	--	1.3%	30	5E-02	2	7E-01	38	4E-02
Lead	29	29	100%	4.9	50.2	25	49	--	360	NC	7E-02	--	68.0%	115	2E-01	1700	1E-02	110	2E-01
Silver	20	30	67%	0.024	8	0.537	0.2	--	1070	NC	5E-04	--	0.5%	560	1E-03	--	NC	119	5E-03
Zinc	29	29	100%	43	215	149	215	--	107000	NC	1E-03	--	1.3%	283	5E-01	355	4E-01	411	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-07		Hazard Index*		1E+00		2E+00		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	17	18	94%	0.0137	1.27	0.42	0.193	58.1	--	7E-07	NC	100.0%	--	20.8	2E-02				
	Total Radionuclide Risk									7E-07		Sum of Fractions		2E-02					
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									1E-06									
	No Action Alternative Total Hazard Index									1E-01									

Notes:

% Percent
BTV/ Background Threshold Value

Table B4-5 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-NE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-6 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	16	28	57%	1.75E-04	0.074	0.01716	0.00447	0.0939	--	2E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	22	28	79%	4.80E-07	0.09661	0.0222	0.00447	0.0939	--	2E-07	NC	--	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.08E-08	2.48E-05	5.38E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	2E-02	--	100.0%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-07	Hazard Index								
											1E-02					1E-03			1E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	24	26	92%	0.00723	0.993	0.445	0.193	58.1	--	8E-07	NC	100.00%	--	20.8	2E-02				
	Total Radionuclide Risk									8E-07	Sum of Fractions								
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									1E-06									
	No Action Alternative Total Hazard Index										2E-02								

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	16	28	57%	0.000175	0.074	0.01716	0.00447	0.0939	--	2E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	22	28	79%	0.00000048	0.097	0.022	0.00447	0.0939	--	2E-07	NC	44.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	24	24	100%	2.08E-08	2.48E-05	5.38E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	2E-02	55.8%	100.0%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-07	Hazard Index*								
											1E-02					1E-03			1E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	24	26	92%	0.00723	0.993	0.445	0.193	58.1	--	8E-07	NC	100%	--	20.8	2E-02				
	Total Radionuclide Risk									8E-07	Sum of Fractions								
	Conservation of Natural Resources Alternative Total Cancer Risk									1E-06									
	Conservation of Natural Resources Alternative Total Hazard Index										2E-02								

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

Table B4-6 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SW, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-7 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk									
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**					
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient				
Benzo(a)pyrene	6	11	55%	0.00083	0.567	0.57	0.00447	0.0939	--	6E-06	NC	--	--	1.5	4E-01	18	3E-02	310	2E-03				
Total TEQ_ BAP	8	11	73%	0.0000068	0.9	0.9	0.00447	0.0939	--	1E-05	NC	100.0%	--	--	NC	--	NC	--	NC				
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-05	Hazard Index									4E-01	3E-02		2E-03
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)									
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	58.1	--	5E-06	NC	100%	--	20.8	1E-01								
	Total Radionuclide Risk									5E-06	Sum of Fractions									1E-01			
	No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									1E-05													
	No Action Alternative Total Hazard Index									0E+00													

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	6	11	55%	0.00083	0.567	0.5670	0.00447	0.0939	--	6E-06	NC	--	--	1.5	4E-01	18	3E-02	310	2E-03
Total TEQ_BAP	8	11	73%	0.0000068	0.8721	0.8720	0.00447	0.0939	--	9E-06	NC	100.0%	--	--	NC	--	NC	--	NC
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									9E-06	Hazard Index* 4E-013E-022E-03								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	5	5	100%	0.0139	2.84	2.84	0.193	58.1	--	5E-06	NC	100%	--	20.8	1E-01				
	Total Radionuclide Risk									5E-06	Sum of Fractions 1E-01								
	Conservation of Natural Resources Alternative Total Cancer Risk									1E-05									
	Conservation of Natural Resources Alternative Total Hazard Index									0E+00									

- Notes:
- %

Percent

BTV

Background Threshold Value

Conc.

Concentration

Eco

Ecological

HH

Human Health

LUT

Look-Up Table

NC

Not Calculated

PRG

Preliminary Remediation Goal

RBSL

Risk Based Screening Level

Rec-Eco

Recreational-Ecological

TEQ_BAP

Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_Dioxin

Total Toxicity Equivalence Factor for dioxins/furans

TRV

Toxicity Reference Value

Table B4-7 Summary of Recreational Cancer Risks and Non-cancer Hazards for B4064-SE, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

* The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-8 Summary of Recreational Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	123	NC	5E-03	--	1.0%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00760	0.00447	0.0939	--	8E-08	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	204	4260	1E-07	6E-03	--	1.1%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	1.90E-06	0.0422	0.00890	0.00447	0.0939	--	9E-08	NC	1.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	4.25E-04	1.16E-04	9.12E-07	1.80E-05	2.36E-04	6E-06	5E-01	98.5%	97.9%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-06	Hazard Index								
											4E-01								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	58.1	--	1E-06	NC	99.68%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	4457	--	4E-09	NC	0.32%	--	22.5	7E-03				
Total Radionuclide Risk										1E-06	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										8E-06									
No Action Alternative Total Hazard Index											5E-01								

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	52	38%	0.017	4.5	0.607	0.86	--	123	NC	5E-03	--	19.4%	5	1E-01	78	8E-03	2	3E-01
Benzo(a)pyrene	19	44	43%	0.000698	0.03	0.00755	0.00447	0.0939	--	8E-08	NC	--	--	1.5	5E-03	18	4E-04	310	2E-05
Naphthalene	9	45	20%	0.0004	92.5	23.5	0.0036	204	4260	1E-07	6E-03	--	21.7%	100	2E-01	29	8E-01	130	2E-01
Total TEQ_BAP	24	44	55%	0.0000019	0.0422	0.00880	0.00447	0.0939	--	9E-08	NC	32.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	6.24E-09	0.000007019	0.000003546	9.12E-07	1.80E-05	2.36E-04	2E-07	2E-02	67.8%	59.0%	--	NC	--	NC	5.00E-06	7E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07	Hazard Index*								
											4E-01								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	39	42	93%	0.0248	2.53	0.666	0.193	58.1	--	1E-06	NC	99.68%	--	20.8	3E-02				
Strontium-90	9	19	47%	0.0616	0.392	0.163	0.075	4457	--	4E-09	NC	0.32%	--	22.5	7E-03				
Total Radionuclide Risk										1E-06	Sum of Fractions								
Conservation of Natural Resources Alternative Total Cancer Risk										1E-06									
Conservation of Natural Resources Alternative Total Hazard Index											3E-02								

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health

Table B4-8 Summary of Recreational Cancer Risks and Non-cancer Hazards for H14, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-9 Summary of Recreational Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	2.2	0.318	0.017	0.564	5.14	6E-07	6E-02	10.4%	10.2%	40	8E-03	500	6E-04	0.39	8E-01
Aroclor 5460	13	38	34%	0.015	0.99	0.0658	0.05	0.564	5.14	1E-07	1E-02	2.1%	2.1%	40	2E-03	500	1E-04	0.39	2E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.9	0.125	0.00447	0.0939	--	1E-06	NC	--	--	1.5	8E-02	18	7E-03	310	4E-04
Cadmium	42	45	93%	0.074	3.97	1.33	0.7	11800	9.06	1E-10	1E-01	0.0%	24.0%	32	4E-02	140	9E-03	0.81	2E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	3.1	1.54	2	6.27	1090	2E-07	1E-03	4.5%	0.2%	30	5E-02	2	8E-01	38	4E-02
Lead	48	48	100%	3.5	188	51.7	49	--	360	NC	1E-01	--	23.6%	115	4E-01	1700	3E-02	39	1E+00
MCPA	2	12	17%	1.2	2.1	2.10	0.761	--	160	NC	1E-02	--	2.2%	--	NC	--	NC	0.61	3E+00
Mercury	36	48	75%	0.006	23	2.63	0.13	--	78.2	NC	3E-02	--	5.5%	0.3	9E+00	0.1	3E+01	1.7	2E+00
Total TEQ_BAP	28	44	64%	4.50E-07	1.35	0.182	0.00447	0.0939	--	2E-06	NC	35.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	27	27	100%	1.55E-08	1.85E-04	4.63E-05	9.12E-07	1.80E-05	2.36E-04	3E-06	2E-01	47.3%	32.2%	--	NC	--	NC	5.00E-06	9E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06		Hazard Index		9E+00		3E+01		2E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	58.1	--	8E-07	NC	100.0%	--	20.8	2E-02				
Total Radionuclide Risk										8E-07		Sum of Fractions		2E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										6E-06									
No Action Alternative Total Hazard Index										6E-01									

Table B4-9 Summary of Recreational Cancer Risks and Non-cancer Hazards for H19, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	46	59%	0.0015	1.4	0.224	0.017	0.564	5.14	4E-07	4E-02	15.3%	13.8%	40	6E-03	500	4E-04	0.39	6E-01
Aroclor 5460	13	38	34%	0.015	0.99	0.174	0.05	0.564	5.14	3E-07	3E-02	11.8%	10.7%	40	4E-03	500	3E-04	0.39	4E-01
Benzo(a)pyrene	24	44	55%	0.00101	0.22	0.0608	0.00447	0.0939	--	6E-07	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04
Cadmium	42	45	93%	0.074	3	1.03	0.7	11800	9.06	9E-11	1E-01	0.0%	35.8%	32	3E-02	140	7E-03	0.81	1E+00
Chromium (Hexavalent Compo	11	17	65%	0.23	2.9	1.18	2	6.27	1090	2E-07	1E-03	7.2%	0.3%	30	4E-02	2	6E-01	38	3E-02
Lead	48	48	100%	3.5	89	33.4	49	--	360	NC	9E-02	--	29.3%	115	3E-01	1700	2E-02	39	9E-01
MCPA	2	12	17%	1.2	1.2	0.946	0.761	--	160	NC	6E-03	--	1.9%	--	NC	--	NC	0.61	2E+00
Mercury	36	48	75%	0.006	0.53	0.0901	0.13	--	78.2	NC	1E-03	--	0.4%	0.3	3E-01	0.1	9E-01	1.7	5E-02
Total TEQ_ BAP	28	44	64%	0.00000045	0.289	0.13	0.00447	0.0939	--	1E-06	NC	53.1%	--	--	NC	--	NC	--	NC
Total TEQ_ Dioxin	27	27	100%	1.55E-08	1.46E-05	5.91E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	12.6%	7.9%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-06		Hazard Index*		7E-01		2E+00		6E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	16	18	89%	0.018	1.31	0.458	0.193	58.1	--	8E-07	NC	100.00%	--	20.8	2E-02				
Total Radionuclide Risk										8E-07		Sum of Fractions		2E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										3E-06									
Conservation of Natural Resources Alternative Total Hazard Index												3E-01							

Notes:

% Percent

BTV Background Threshold Value

Conc. Concentration

Eco Ecological

HH Human Health

LUT Look-Up Table

NC Not Calculated

PRG Preliminary Remediation Goal

RBSL Risk Based Screening Level

Rec-Eco Recreational-Ecological

TEQ_ BAP Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)

TEQ_ Dioxin Total Toxicity Equivalence Factor for dioxins/furans

TRV Toxicity Reference Value

* The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.

** The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-10 Summary of Recreational Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	2.9	0.111	0.017	0.564	5.14	2E-07	2E-02	3.5%	5.1%	40	3E-03	500	2E-04	0.39	3E-01
Benzo(a)pyrene	36	62	58%	0.00056	1.8	0.0559	0.00447	0.0939	--	6E-07	NC	--	--	1.5	4E-02	18	3E-03	310	2E-04
Cadmium	59	60	98%	0.096	2.39	0.666	0.7	11800	9.06	6E-11	7E-02	0.0%	17.2%	32	2E-02	140	5E-03	0.81	8E-01
Lead	59	60	98%	3.9	210	40.5	49	--	360	NC	1E-01	--	26.4%	115	4E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.91	0.591	0.761	--	160	NC	4E-03	--	0.9%	--	NC	--	NC	0.61	1E+00
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	1780	NC	4E-04	--	0.1%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	2.68	0.241	0.00447	0.0939	--	3E-06	NC	46.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	0.000000048	3.94E-04	5.03E-05	9.12E-07	1.80E-05	2.36E-04	3E-06	2E-01	50.2%	50.0%	--	NC	--	NC	5.00E-06	1E+01
Zinc	60	60	100%	15	616	180	215	--	107000	NC	2E-03	--	0.4%	160	1E+00	120	2E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										6E-06		Hazard Index		3E+00		2E+00		1E+01	
No Action Alternative Total Chemical Cancer Risk										6E-06									
No Action Alternative Total Hazard Index										4E-01									

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	36	63	57%	0.0019	2.9	0.0809	0.017	0.564	5.14	1E-07	2E-02	12.7%	7.7%	40	2E-03	500	2E-04	0.39	2E-01
Benzo(a)pyrene	36	62	58%	0.00056	0.36	0.0385	0.00447	0.0939	--	4E-07	NC	--	--	1.5	3E-02	18	2E-03	310	1E-04
Cadmium	59	60	98%	0.096	1.7	0.419	0.7	11800	9.06	4E-11	5E-02	0.0%	22.6%	32	1E-02	140	3E-03	0.81	5E-01
Lead	59	60	98%	3.9	210	38.8	49	--	360	NC	1E-01	--	52.6%	115	3E-01	1700	2E-02	39	1E+00
MCPA	8	17	47%	0.19	0.761	0.549	0.761	--	160	NC	3E-03	--	1.7%	--	NC	--	NC	0.61	9E-01
Selenium	39	60	65%	0.0667	1.6	0.659	1	--	1780	NC	4E-04	--	0.2%	0.52	1E+00	4.1	2E-01	1.5	4E-01
Total TEQ_BAP	43	62	69%	9.90E-07	0.532	0.0556	0.00447	0.0939	--	6E-07	NC	52.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	50	50	100%	4.80E-08	4.80E-05	7.07E-06	9.12E-07	1.80E-05	2.36E-04	4E-07	3E-02	34.8%	14.6%	--	NC	--	NC	5.00E-06	1E+00
Zinc	60	60	100%	15	616	153	215	--	107000	NC	1E-03	--	0.7%	160	1E+00	120	1E+00	411	4E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										1E-06		Hazard Index*		3E+00		1E+00		5E+00	
Conservation of Natural Resources Alternative Total Cancer Risk										1E-06									
Conservation of Natural Resources Alternative Total Hazard Index										2E-01									

- Notes:
- % Percent
 - BTV Background Threshold Value
 - Conc. Concentration
 - Eco Ecological
 - HH Human Health
 - LUT Look-Up Table
 - NC Not Calculated
 - PPG Preliminary Remediation Goal

Table B4-10 Summary of Recreational Cancer Risks and Non-cancer Hazards for N13, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	
No radionuclides were evaluated for this exposure area because no radionuclides exceeded Field Action Levels.	

Table B4-11 Summary of Recreational Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.27	0.0977	0.00447	0.0939	--	1E-06	NC	--	--	1.5	7E-02	18	5E-03	310	3E-04
Cadmium	22	22	100%	0.264	0.87	0.648	0.7	11800	9.06	5E-11	7E-02	0.0%	28.5%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.21	0.761	--	160	NC	8E-03	--	3.0%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	35.4	10.9	0.13	--	78.2	NC	1E-01	--	55.7%	0.3	4E+01	0.1	1E+02	1.7	6E+00
Total TEQ_BAP	21	22	95%	4.30E-07	0.410	0.143	0.00447	0.0939	--	2E-06	NC	78.3%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	1.95E-05	7.58E-06	9.12E-07	1.80E-05	2.36E-04	4E-07	3E-02	21.7%	12.8%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index							
												4E+01		1E+02		1E+01			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	4457	--	4E-09	NC	100.00%	--	22.5	9E-03				
Total Radionuclide Risk										4E-09		Sum of Fractions							
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-06									
No Action Alternative Total Hazard Index												3E-01							

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	17	22	77%	0.0011	0.27	0.0794	0.00447	0.0939	--	8E-07	NC	--	--	1.5	5E-02	18	4E-03	310	3E-04
Cadmium	22	22	100%	0.264	0.8	0.627	0.7	11800	9.06	5E-11	7E-02	0.00%	63.9%	32	2E-02	140	4E-03	0.81	8E-01
MCPA	13	19	68%	0.11	2.4	1.21	0.761	--	160	NC	8E-03	--	7.0%	--	NC	--	NC	0.61	2E+00
Mercury	18	22	82%	0.0048	0.242	0.137	0.13	--	78.2	NC	2E-03	--	1.6%	0.3	5E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	21	22	95%	4.30E-07	0.410	0.113	0.00447	0.0939	--	1E-06	NC	75.5%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	21	22	95%	2.64E-07	7.56E-06	7.03E-06	9.12E-07	1.80E-05	2.36E-04	4E-07	3E-02	24.5%	27.5%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index*							
												5E-01		1E+00		4E+00			
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	8	20	40%	0.115	0.45	0.192	0.075	4457	--	4E-09	NC	100%	--	22.5	9E-03				
Total Radionuclide Risk										4E-09		Sum of Fractions							
Conservation of Natural Resources Alternative Total Cancer Risk										2E-06									
Conservation of Natural Resources Alternative Total Hazard Index												1E-01							

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table

Table B4-11 Summary of Recreational Cancer Risks and Non-cancer Hazards for O10, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-12 Summary of Recreational Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	20	27	74%	0.028	8.25	1.35	2	--	123	NC	1E-02	--	0.5%	5	3E-01	78	2E-02	2	7E-01		
Aroclor 1254	7	28	25%	0.0095	1.8	0.398	0.017	0.564	5.14	7E-07	8E-02	18.5%	3.4%	40	1E-02	500	8E-04	0.39	1E+00		
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.564	5.14	2E-08	2E-03	0.5%	0.1%	40	3E-04	500	2E-05	0.25	4E-02		
Aroclor 5460	6	20	30%	0.0025	1.3	0.502	0.05	0.564	5.14	9E-07	1E-01	23.3%	4.2%	40	1E-02	500	1E-03	0.39	1E+00		
Benzo(a)pyrene	11	28	39%	0.00033	0.21	0.0478	0.00447	0.0939	--	5E-07	NC	--	--	1.5	3E-02	18	3E-03	310	2E-04		
Cadmium	26	28	93%	0.058	3.41	0.787	0.7	11800	9.06	7E-11	9E-02	0.0%	3.8%	32	2E-02	140	6E-03	0.81	1E+00		
Lead	27	28	96%	3.2	3080	681	49	--	360	NC	2E+00	--	81.8%	115	6E+00	1700	4E-01	39	2E+01		
Mercury	21	28	75%	0.008	24.3	6.72	0.13	--	78.2	NC	9E-02	--	3.7%	0.3	2E+01	0.1	7E+01	1.7	4E+00		
Total TEQ_BAP	20	28	71%	8.10E-06	0.3057	0.136	0.00447	0.0939	--	1E-06	NC	37.9%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	18	18	100%	1.41E-07	4.00E-05	1.35E-05	9.12E-07	1.80E-05	2.36E-04	8E-07	6E-02	19.7%	2.5%	--	NC	--	NC	5.00E-06	3E+00		
Zinc	28	28	100%	34	1060	266	215	--	107000	NC	2E-03	--	0.1%	160	2E+00	120	2E+00	411	6E-01		
Total Chemical Cancer Risk (BAP TEQ and other COCs)										4E-06				Hazard Index		3E+01		7E+01		3E+01	
No Action Alternative Total Chemical Cancer Risk										4E-06											
No Action Alternative Total Hazard Index										2E+00											

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Antimony	20	27	74%	0.028	0.97	0.466	2	--	123	NC	4E-03	--	2.6%	5	9E-02	78	6E-03	2	2E-01
Aroclor 1254	7	28	25%	0.0095	0.024	0.0140	0.017	0.564	5.14	2E-08	3E-03	6.0%	1.8%	40	3E-04	500	3E-05	0.39	4E-02
Aroclor 1260	3	28	11%	0.00895	0.027	0.0109	0.017	0.564	5.14	2E-08	2E-03	4.6%	1.4%	40	3E-04	500	2E-05	0.25	4E-02
Aroclor 5460	6	20	30%	0.0025	0.05	0.0206	0.05	0.564	5.14	4E-08	4E-03	8.8%	2.7%	40	5E-04	500	4E-05	0.39	5E-02
Benzo(a)pyrene	11	28	39%	0.00033	0.041	0.00570	0.00447	0.0939	--	6E-08	NC	--	--	1.5	4E-03	18	3E-04	310	2E-05
Cadmium	26	28	93%	0.058	0.7	0.446	0.7	11800	9.06	4E-11	5E-02	0.0%	33.4%	32	1E-02	140	3E-03	0.81	6E-01
Lead	27	28	96%	3.2	57	27.8	49	--	360	NC	8E-02	--	52.4%	115	2E-01	1700	2E-02	39	7E-01
Mercury	21	28	75%	0.008	0.375	0.132	0.13	--	78.2	NC	2E-03	--	1.1%	0.3	4E-01	0.1	1E+00	1.7	8E-02
Total TEQ_BAP	20	28	71%	0.0000081	0.0589	0.0245	0.00447	0.0939	--	3E-07	NC	62.9%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	18	18	100%	1.41E-07	2.93E-06	1.32E-06	9.12E-07	1.80E-05	2.36E-04	7E-08	6E-03	17.7%	3.8%	--	NC	--	NC	5.00E-06	3E-01
Zinc	28	28	100%	34	215	94.8	215	--	107000	NC	9E-04	--	0.6%	160	6E-01	120	8E-01	411	2E-01
Total Chemical Cancer Risk (BAP TEQ and other COCs)										4E-07		Hazard Index*		1E+00		2E+00		2E+00	
Conservation of Natural Resources Alternative Total Cancer Risk										4E-07									
Conservation of Natural Resources Alternative Total Hazard Index										1E-01									

Notes:

% Percent
BTV Background Threshold Value
Conc. Concentration

Table B4-12 Summary of Recreational Cancer Risks and Non-cancer Hazards for F18, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

No radionuclides were evaluated for this exposure area because no radionuclides exceeded Field Action Levels.

Table B4-13 Summary of Recreational Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Cadmium	40	41	98%	0.084	1.9	0.584	0.7	11800	9.06	5E-11	6E-02	0.004%	35.7%	32	2E-02	140	4E-03	0.81	7E-01		
MCPA	2	15	13%	0.76	1	0.94	0.761	--	160	NC	6E-03	--	3.2%	--	NC	--	NC	0.61	2E+00		
Mercury	40	43	93%	0.0059	2.2	0.0933	0.13	--	78.2	NC	1E-03	--	0.7%	0.3	3E-01	0.1	9E-01	1.7	5E-02		
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.16E-04	2.43E-05	9.12E-07	1.80E-05	2.36E-04	1E-06	1E-01	99.996%	56.9%	--	NC	--	NC	5.00E-06	5E+00		
Zinc	41	41	100%	45	4630	685	215	--	107000	NC	6E-03	--	3.5%	160	4E+00	120	6E+00	411	2E+00		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06				Hazard Index		5E+00		7E+00		9E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	58.1	--	2E-07	NC	99.9%	--	20.8	6E-03						
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	9020	--	1E-10	NC	0.1%	--	6110	2E-06						
Total Radionuclide Risk										2E-07				Sum of Fractions		6E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										2E-06											
No Action Alternative Total Hazard Index										2E-01											

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Cadmium	40	41	98%	0.084	0.84	0.394	0.7	11800	9.06	3E-11	4E-02	0.01%	57.4%	32	1E-02	140	3E-03	0.81	5E-01		
MCPA	2	15	13%	0.76	1	0.89	0.761	--	160	NC	6E-03	--	7.4%	--	NC	--	NC	0.61	1E+00		
Mercury	40	43	93%	0.0059	0.213	0.0599	0.13	--	78.2	NC	8E-04	--	1.0%	0.3	2E-01	0.1	6E-01	1.7	4E-02		
Total TEQ_Dioxin	32	32	100%	1.96E-07	1.45E-05	5.90E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	3E-02	99.99%	33.0%	--	NC	--	NC	5.00E-06	1E+00		
Zinc	41	41	100%	45	215	105	215	--	107000	NC	1E-03	--	1.3%	160	7E-01	120	9E-01	411	3E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07				Hazard Index*		9E-01		1E+00		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	18	18	100%	0.0338	0.208	0.123	0.193	58.1	--	2E-07	NC	99.9%	--	20.8	6E-03						
Plutonium-239/240	4	16	25%	0.00549	0.0302	0.0123	0.0142	9020	--	1E-10	NC	0.06%	--	6110	2E-06						
Total Radionuclide Risk										2E-07				Sum of Fractions		6E-03					
Conservation of Natural Resources Alternative Total Cancer Risk										5E-07											
Conservation of Natural Resources Alternative Total Hazard Index										8E-02											

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B4-13 Summary of Recreational Cancer Risks and Non-cancer Hazards for G17, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-14 Summary of Recreational Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	1.9	0.237	0.017	0.564	5.14	4E-07	5E-02	6.7%	6.6%	40	6E-03	500	5E-04	0.39	6E-01
Aroclor 5460	6	19	32%	0.0021	4.2	2.568	0.05	0.564	5.14	5E-06	5E-01	73.1%	71.2%	40	6E-02	500	5E-03	0.39	7E+00
Cadmium	21	22	95%	0.088	1.43	0.545	0.7	11800	9.06	5E-11	6E-02	0.0%	8.6%	32	2E-02	140	4E-03	0.81	7E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	2.26E-05	2.26E-05	9.12E-07	1.80E-05	2.36E-04	1E-06	1E-01	20.2%	13.7%	--	NC	--	NC	5.00E-06	5E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									6E-06		Hazard Index		9E-02		1E-02		1E+01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	58.1	--	2E-06	NC	99.99%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	9020	--	2E-10	NC	0.01%	--	6110	3E-06				
Total Radionuclide Risk										2E-06		Sum of Fractions		4E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										8E-06									
No Action Alternative Total Hazard Index										7E-01									

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	3	25	12%	0.0032	0.017	0.00944	0.017	0.564	5.14	2E-08	2E-03	5.7%	2.5%	40	2E-04	500	2E-05	0.39	2E-02
Aroclor 5460	6	19	32%	0.0021	0.05	0.0229	0.05	0.564	5.14	4E-08	4E-03	13.8%	5.9%	40	6E-04	500	5E-05	0.39	6E-02
Cadmium	21	22	95%	0.088	0.86	0.458	0.7	11800	9.06	4E-11	5E-02	0.01%	67.5%	32	1E-02	140	3E-03	0.81	6E-01
Total TEQ_Dioxin	14	14	100%	3.30E-07	8.47E-06	4.26E-06	9.12E-07	1.80E-05	2.36E-04	2E-07	2E-02	80.5%	24.1%	--	NC	--	NC	5.00E-06	9E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									3E-07		Hazard Index*		2E-02		3E-03		1E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	15	15	100%	0.017	2.45	0.924	0.193	58.1	--	2E-06	NC	99.99%	--	20.8	4E-02				
Plutonium-239/240	5	9	56%	0.00746	0.038	0.0198	0.0142	9020	--	2E-10	NC	0.01%	--	6110	3E-06				
Total Radionuclide Risk										2E-06		Sum of Fractions		4E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										2E-06									
Conservation of Natural Resources Alternative Total Hazard Index										7E-02									

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B4-14 Summary of Recreational Cancer Risks and Non-cancer Hazards for H17, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-15 Summary of Recreational Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.564	5.14	6E-07	6E-02	38.3%	32.9%	40	8E-03	500	7E-04	0.39	8E-01
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.564	5.14	3E-08	3E-03	1.9%	1.7%	40	4E-04	500	3E-05	0.25	7E-02
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.564	5.14	4E-07	5E-02	29.2%	25.1%	40	6E-03	500	5E-04	0.39	6E-01
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	11800	9.06	3E-11	4E-02	0.002%	22.2%	32	1E-02	140	3E-03	0.81	5E-01
Total TEQ_Dioxin	28	28	100%	2.27E-08	5.04E-05	8.37E-06	9.12E-07	1.80E-05	2.36E-04	5E-07	4E-02	30.5%	18.2%	--	NC	--	NC	5.00E-06	2E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-06		Hazard Index		3E-02		4E-03		4E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	58.1	--	1E-06	NC	99.52%	--	20.8	3E-02				
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	4457	--	6E-09	NC	0.48%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06		Sum of Fractions		4E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										3E-06									
No Action Alternative Total Hazard Index										2E-01									

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	27	43	63%	0.00039	1.3	0.329	0.017	0.564	5.14	6E-07	6E-02	43.6%	35.4%	40	8E-03	500	7E-04	0.39	8E-01
Aroclor 1260	21	43	49%	0.0021	0.28	0.0166	0.017	0.564	5.14	3E-08	3E-03	2.2%	1.8%	40	4E-04	500	3E-05	0.25	7E-02
Aroclor 5460	23	28	82%	0.0021	0.91	0.251	0.05	0.564	5.14	4E-07	5E-02	33.2%	27.0%	40	6E-03	500	5E-04	0.39	6E-01
Cadmium	46	47	98%	0.078	1.47	0.391	0.7	11800	9.06	3E-11	4E-02	0.002%	23.9%	32	1E-02	140	3E-03	0.81	5E-01
Total TEQ_Dioxin	28	28	100%	2.27E-08	1.39E-05	5.06E-06	9.12E-07	1.80E-05	2.36E-04	3E-07	2E-02	21.0%	11.9%	--	NC	--	NC	5.00E-06	1E+00
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06		Hazard Index*		3E-02		4E-03		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	40	40	100%	0.0628	1.81	0.679	0.193	58.1	--	1E-06	NC	99.52%	--	20.8	3E-02				
Strontium-90	10	26	38%	0.122	0.93	0.25	0.075	4457	--	6E-09	NC	0.48%	--	22.5	1E-02				
Total Radionuclide Risk										1E-06		Sum of Fractions		4E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										3E-06									
Conservation of Natural Resources Alternative Total Hazard Index										2E-01									

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B4-15 Summary of Recreational Cancer Risks and Non-cancer Hazards for I14, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.

All chemical concentrations are in milligrams per kilogram (mg/kg)

All radionuclide activities are in picocuries per gram (pCi/g)

Table B4-16 Summary of Recreational Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	26	31	84%	0.136	14.5	3.58	0.86	--	123	NC	3E-02	--	6.3%	5	7E-01	78	5E-02	2	2E+00		
Benzo(a)pyrene	16	34	47%	0.0015	2.08	0.353	0.00447	0.0939	--	4E-06	NC	--	--	1.5	2E-01	18	2E-02	310	1E-03		
Cadmium	31	31	100%	0.03	2.78	0.534	0.7	11800	9.06	5E-11	6E-02	0.0%	12.7%	32	2E-02	140	4E-03	0.81	7E-01		
Chromium (Hexavalent)	6	14	43%	0.48	7.1	6.30	2	6.27	1090	1E-06	6E-03	15.2%	1.2%	30	2E-01	2	3E+00	38	2E-01		
Lead	34	34	100%	0.24	514	128	49	--	360	NC	4E-01	--	76.4%	115	1E+00	1700	8E-02	39	3E+00		
Total TEQ_BAP	20	34	59%	1.11E-04	2.611	0.508	0.00447	0.0939	--	5E-06	NC	81.8%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	16	16	100%	1.14E-08	8.63E-06	3.65E-06	9.12E-07	1.80E-05	2.36E-04	2E-07	2E-02	3.1%	3.3%	--	NC	--	NC	5.00E-06	7E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									7E-06				Hazard Index		2E+00		3E+00		7E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	4457	--	2E-09	NC	100.00%	--	22.5	3E-03						
Total Radionuclide Risk										2E-09				Sum of Fractions		3E-03					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										7E-06											
No Action Alternative Total Hazard Index										5E-01											

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk						
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**		
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	
Antimony	26	31	84%	0.136	4.23	1.07	0.86	--	123	NC	9E-03	--	5.8%	5	2E-01	78	1E-02	2	5E-01	
Benzo(a)pyrene	16	34	47%	0.0015	0.15	0.0380	0.00447	0.0939	--	4E-07	NC	--	--	1.5	3E-02	18	2E-03	310	1E-04	
Cadmium	31	31	100%	0.03	0.742	0.365	0.7	11800	9.06	3E-11	4E-02	0.0%	27.0%	32	1E-02	140	3E-03	0.81	5E-01	
Chromium (Hexavalent)	6	14	43%	0.48	2.0	1.25	2	6.27	1090	2E-07	1E-03	22.7%	0.8%	30	4E-02	2	6E-01	38	3E-02	
Lead	34	34	100%	0.24	217	32.4	49	--	360	NC	9E-02	--	60.2%	115	3E-01	1700	2E-02	39	8E-01	
Total TEQ_BAP	20	34	59%	0.000111	0.211	0.0521	0.00447	0.0939	--	6E-07	NC	63.4%	--	--	NC	--	NC	--	NC	
Total TEQ_Dioxin	16	16	100%	1.14E-08	4.56E-06	2.19E-06	9.12E-07	1.80E-05	2.36E-04	1E-07	9E-03	13.9%	6.2%	--	NC	--	NC	5.00E-06	4E-01	
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									9E-07				Hazard Index*		6E-01		7E-01		2E+00
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)						
Strontium-90	3	6	50%	0.028	0.098	0.0768	0.075	4457	--	2E-09	NC	100.00%	--	22.5	3E-03					
Total Radionuclide Risk										2E-09				Sum of Fractions		3E-03				
Conservation of Natural Resources Alternative Total Cancer Risk										9E-07										
Conservation of Natural Resources Alternative Total Hazard Index										1E-01										

Notes:

% Percent
BTV Background Threshold Value
Conc. Concentration

Table B4-16 Summary of Recreational Cancer Risks and Non-cancer Hazards for N10, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because hazards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-17 Summary of Recreational Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	1.5	0.280	0.017	0.564	5.14	5E-07	5E-02	8.1%	8.5%	40	7E-03	500	6E-04	0.39	7E-01
Aroclor 5460	6	20	30%	0.0016	5.1	2.97	0.05	0.564	5.14	5E-06	6E-01	85.9%	90.2%	40	7E-02	500	6E-03	0.39	8E+00
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0939	--	2E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0239	0.00447	0.0939	--	3E-07	NC	4.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	8.93E-06	2.01E-06	9.12E-07	1.80E-05	2.36E-04	1E-07	9E-03	1.8%	1.3%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									6E-06		Hazard Index		9E-02		7E-03		9E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	4457	--	3E-09	NC	100.0%	--	22.5	5E-03				
Total Radionuclide Risk									3E-09		Sum of Fractions		5E-03						
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk									6E-06										
No Action Alternative Total Hazard Index									6E-01										

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Aroclor 1254	17	31	55%	0.0015	0.097	0.0281	0.017	0.564	5.14	5E-08	5E-03	12.7%	42.1%	40	7E-04	500	6E-05	0.39	7E-02
Aroclor 5460	6	20	30%	0.0016	0.05	0.0158	0.05	0.564	5.14	3E-08	3E-03	7.2%	23.7%	40	4E-04	500	3E-05	0.39	4E-02
Benzo(a)pyrene	17	28	61%	0.00092	0.069	0.0172	0.00447	0.0939	--	2E-07	NC	--	--	1.5	1E-02	18	1E-03	310	6E-05
Total TEQ_BAP	23	28	82%	0.00000041	0	0.0	0.00447	0.0939	--	3E-07	NC	65.2%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	28	89%	8.96E-08	2.86E-06	1.05E-06	9.12E-07	1.80E-05	2.36E-04	6E-08	4E-03	14.9%	34.2%	--	NC	--	NC	5.00E-06	2E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									4E-07		Hazard Index*		1E-02		1E-03		3E-01	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Strontium-90	6	21	29%	0.0858	0.449	0.12	0.075	4457	--	3E-09	NC	100.00%	--	22.5	5E-03				
Total Radionuclide Risk									3E-09		Sum of Fractions		5E-03						
Conservation of Natural Resources Alternative Total Cancer Risk									4E-07										
Conservation of Natural Resources Alternative Total Hazard Index											1E-02								

Notes:

%	Percent
BTV	Background Threshold Value
Conc.	Concentration
Eco	Ecological
HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal

Table B4-17 Summary of Recreational Cancer Risks and Non-cancer Hazards for O6, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-18 Summary of Recreational Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	17	23	74%	0.11	870	422	0.86	--	123	NC	3E+00	--	13.2%	5	8E+01	78	5E+00	2	2E+02		
Benzo(a)pyrene	12	22	55%	0.00083	0.015	0.00790	0.00447	0.0939	--	8E-08	NC	--	--	1.5	5E-03	18	4E-04	310	3E-05		
Cadmium	22	26	85%	0.103	1.36	1.02	0.7	11800	9.06	9E-11	1E-01	0.01%	0.4%	32	3E-02	140	7E-03	0.81	1E+00		
Lead	27	27	100%	7.4	27000	8033	49	--	360	NC	2E+01	--	86.0%	115	7E+01	1700	5E+00	39	2E+02		
Total TEQ_BAP	19	22	86%	8.70E-07	0.0202	0.00887	0.00447	0.0939	--	9E-08	NC	7.57%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	19	20	95%	1.86E-08	2.82E-05	2.08E-05	9.12E-07	1.80E-05	2.36E-04	1E-06	9E-02	92.43%	0.3%	--	NC	--	NC	5.00E-06	4E+00		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									1E-06			Hazard Index			2E+02		1E+01		4E+02	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	58.1	--	1E-07	NC	95.42%	--	20.8	3E-03						
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	4457	--	5E-09	NC	4.58%	--	22.5	1E-02						
Total Radionuclide Risk										1E-07			Sum of Fractions			1E-02					
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										1E-06											
No Action Alternative Total Hazard Index										3E+01											

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk							
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**			
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient		
Antimony	17	23	74%	0.11	0.957	0.579	0.86	--	123	NC	5E-03	--	2.3%	5	1E-01	78	7E-03	2	3E-01		
Benzo(a)pyrene	12	22	55%	0.00083	0.014	0.00472	0.00447	0.0939	--	5E-08	NC	--	--	1.5	3E-03	18	3E-04	310	2E-05		
Cadmium	22	26	85%	0.103	1.36	0.571	0.7	11800	9.06	5E-11	6E-02	0.03%	31.4%	32	2E-02	140	4E-03	0.81	7E-01		
Lead	27	27	100%	7.4	121	44.8	49	--	360	NC	1E-01	--	61.9%	115	4E-01	1700	3E-02	39	1E+00		
Total TEQ_BAP	19	22	86%	8.70E-07	0.0188	0.00652	0.00447	0.0939	--	7E-08	NC	37.5%	--	--	NC	--	NC	--	NC		
Total TEQ_Dioxin	19	20	95%	1.86E-08	5.38E-06	2.08E-06	9.12E-07	1.80E-05	2.36E-04	1E-07	9E-03	62.4%	4.4%	--	NC	--	NC	5.00E-06	4E-01		
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									2E-07			Hazard Index*			5E-01		4E-02		3E+00	
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)							
Cesium-137	17	19	89%	0.00907	0.206	0.0655	0.193	58.1	--	1E-07	NC	95.42%	--	20.8	3E-03						
Strontium-90	4	23	17%	0.0842	1.41	0.241	0.075	4457	--	5E-09	NC	4.58%	--	22.5	1E-02						
Total Radionuclide Risk										1E-07			Sum of Fractions			1E-02					
Conservation of Natural Resources Alternative Total Cancer Risk										3E-07											
Conservation of Natural Resources Alternative Total Hazard Index										2E-01											

Notes:

% Percent
BTV Background Threshold Value
Conc. Concentration
Eco Ecological

Table B4-18 Summary of Recreational Cancer Risks and Non-cancer Hazards for P6, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

HH	Human Health
LUT	Look-Up Table
NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	

Table B4-19 Summary of Recreational Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

Panel A. No Action Alternative

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.00444	0.00447	0.0939	--	5E-08	NC	--	--	1.5	3E-03	18	2E-04	310	1E-05
Cadmium	26	26	100%	0.307	1.32	0.641	0.7	11800	9.06	5E-11	7E-02	0.001%	15.7%	32	2E-02	140	5E-03	0.81	8E-01
MCPA	8	15	53%	0.29	1.4	1	0.761	--	160	NC	6E-03	--	1.4%	--	NC	--	NC	0.61	2E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.0262	0.00447	0.0939	--	3E-07	NC	5.370%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	1.87E-04	8.85E-05	9.12E-07	1.80E-05	2.36E-04	5E-06	4E-01	94.63%	83.0%	--	NC	--	NC	5.00E-06	2E+01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									5E-06	Hazard Index								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	58.1	--	1E-07	NC	97.08%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	4457	--	4E-09	NC	2.92%	--	22.5	9E-03				
Total Radionuclide Risk										2E-07	Sum of Fractions								
No Action Alternative Total Chemical and Total Radionuclide Cancer Risk										5E-06									
No Action Alternative Total Hazard Index											5E-01								

Panel B. Conservation of Natural Resources Alternative - Open Space Option

Chemical Name	Number of Detects	Number of Samples	Frequency of Detection	Minimum Detected Conc. (mg/kg)	Maximum Detected Conc. (mg/kg)	Exposure Point Conc. (mg/kg)	LUT Value (mg/kg)	Recreational Risk						Ecological Risk					
								Human Health						Terrestrial Plants		Soil Invertebrates		Mammals and Birds**	
								Cancer RBSL (mg/kg)	Non-cancer RBSL (mg/kg)	Cancer Risk	Non-cancer Hazard	% of Cancer Risk	% of Non-cancer Risk	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient	RBSL (mg/kg)	Hazard Quotient
Benzo(a)pyrene	13	26	50%	0.00071	0.056	0.0133	0.00447	0.0939	--	1E-07	NC	--	--	1.5	9E-03	18	7E-04	310	4E-05
Cadmium	26	26	100%	0.307	0.754	0.581	0.7	11800	9.06	5E-11	6E-02	0.01%	82.1%	32	2E-02	140	4E-03	0.81	7E-01
MCPA	8	15	53%	0.29	1.4	0.898	0.761	--	160	NC	6E-03	--	7.18%	--	NC	--	NC	0.61	1E+00
Total TEQ_BAP	22	26	85%	5.90E-07	0.106	0.046	0.00447	0.0939	--	5E-07	NC	81.6%	--	--	NC	--	NC	--	NC
Total TEQ_Dioxin	25	26	96%	0.000000184	4.92E-06	1.98E-06	9.12E-07	1.80E-05	2.36E-04	1E-07	8E-03	18.4%	10.7%	--	NC	--	NC	5.00E-06	4E-01
	Total Chemical Cancer Risk (BAP TEQ and other COCs)									6E-07	Hazard Index*								
Radionuclide							BTV (pCi/g)	HH PRG (pCi/g)						Eco PRG (pCi/g)					
Cesium-137	12	15	80%	0.0162	0.194	0.0853	0.193	58.1	--	1E-07	NC	97.08%	--	20.8	4E-03				
Strontium-90	8	19	42%	0.115	0.619	0.197	0.075	4457	--	4E-09	NC	2.92%	--	22.5	9E-03				
Total Radionuclide Risk										2E-07	Sum of Fractions								
Conservation of Natural Resources Alternative Total Cancer Risk										8E-07									
Conservation of Natural Resources Alternative Total Hazard Index											8E-02								

Notes:

- %Percent
- BTVBackground Threshold Value
- Conc.Concentration
- EcoEcological
- HHHuman Health
- LUTLook-Up Table

Table B4-19 Summary of Recreational Cancer Risks and Non-cancer Hazards for P11, No Action Alternative and Conservation of Natural Resources Alternative - Open Space Scenario

NC	Not Calculated
PRG	Preliminary Remediation Goal
RBSL	Risk Based Screening Level
Rec-Eco	Recreational-Ecological
TEQ_BAP	Total Toxicity Equivalence Factor Benzo(a)pyrene (total TEQ for carcinogenic polycyclic aromatic hydrocarbons)
TEQ_Dioxin	Total Toxicity Equivalence Factor for dioxins/furans
TRV	Toxicity Reference Value
*	The Hazard Index does not have to be equal to one for ecological risk because harzards are not typically summed for ecological receptors. Of importance is that each individual chemical hazard not exceed one.
**	The ecological risk calculations for mammals and birds are based on the high TRV values.
All chemical concentrations are in milligrams per kilogram (mg/kg)	
All radionuclide activities are in picocuries per gram (pCi/g)	