BAAQMD

Draft Facility-Wide

Health Risk Assessment

Facility # A0062

AB&I Foundry

April 2021

Prepared by: Bhagavan Krishnaswamy, Supervising Engineer
Robert Hull, Principal Engineer

Approved by: Daphne Chong, Toxicologist
Carol Allen, Manager, Engineering
Pam Leong, Director, Engineering

DRAFT

Table of Contents

Table of Contents 2
1. Executive Summary 3
2. Introduction 5
3. Purpose 6
4. Background 7
5. Emissions Inventory 9
6. Dispersion Modeling 17
7. HARP2 Risk Assessment 19
8. Detailed Summary of Results 21
9. Conclusions 25
10. Appendix A – Air District Updated Emissions Inventory 26
11. Appendix B – HARP2 Output Logs 31
12. Appendix C – HARP2 Output: Residential Cancer Risk – Significant Sources 38
13. Appendix D – HARP2 Output: Residential Chronic HI – Significant Sources 53
14. Appendix E – HARP2 Output: Worker Cancer Risk – Significant Sources 56
15. Appendix F – HARP2 Output: Worker Chronic HI by Significant Source 71
16. Appendix G – HARP2 Output: Acute HI by Significant Source 82
17. Appendix H – HARP2 Output: Student Cancer Risk by Significant Source 91
18. Appendix I – HARP2 Output: Student Chronic HI by Significant Source 104
19. Appendix J – HARP2 Summary Report 106
20. Appendix K – Facility Location Map and Risk Plots 162
21. Appendix L – AERMOD: Emission Point Allocations 171
22. Appendix M – AERMOD: Source Parameters – Source Groups 172
23. Appendix N – AERMOD: Wind Rose Plot: KOAK 174
24. Appendix O – AERMOD: Auer Land Use Determination 175
25. Appendix P – AERMOD: Model Run Summary 176

DRAFT

Draft Facility-Wide Health Risk Assessment Report

AB&I Foundry (Facility # A0062)
7825 San Leandro Street, Oakland, CA 94621

1. Executive Summary

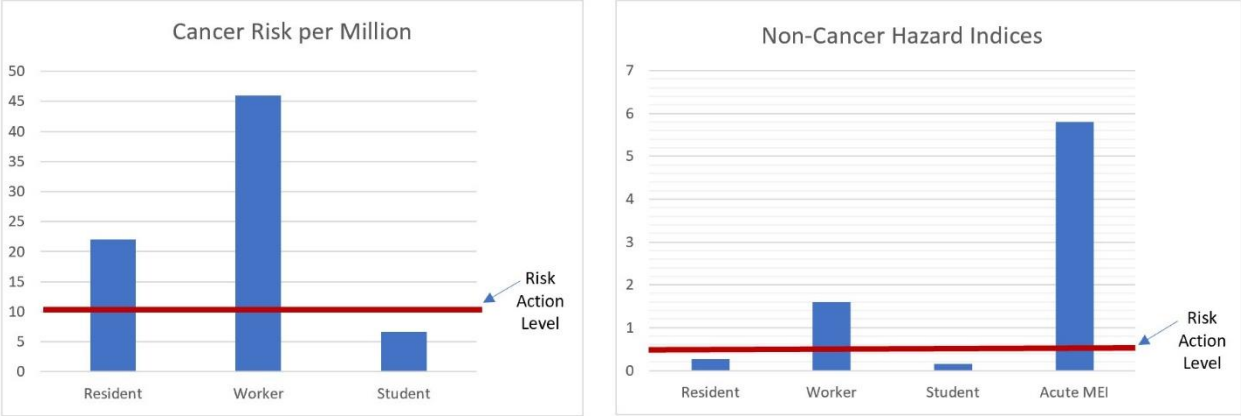
AB&I Foundry (AB&I), Air District Facility # A0062, currently operates a metal foundry on San Leandro Street in Oakland that manufactures cast iron pipe and fittings for plumbing systems. The Air District has identified twenty operations (sources) at this facility that emit one or more toxic air contaminants (TACs) listed in Table 2-5-1 of Regulation 2, Rule 5. Based on the Air District's 2017 toxic emission inventory for this facility, it was determined that this facility was required to undergo a facility-wide health risk assessment (HRA) to assess the applicability of the Air District's Regulation 11, Rule 18 "Reduction of Risk from Air Toxic Emissions at Existing Facilities", or Rule 11-18. The Air District has conducted a facility-wide HRA for AB&I based on an Air District updated toxic emissions inventory for this site, the Air District's 2016 HRA Guidelines, and the Air District's 2020 HRA Modeling Protocol. The AERMOD air dispersion computer model was used to estimate maximum 1-hour and annual average ambient air concentrations. California Air Resources Board's Hotspots Analysis and Reporting Program Version 2 (HARP2) was used to evaluate health risks. The estimated health risks from AB&I are summarized in Table 1.

Table 1: Summary of Health Risks from AB&I Foundry.

	Resident	Worker	Student	Maximally Exposed Individual (MEI)
Cancer Risk per Million	22	46	6.6	**46**
Chronic Hazard Index	0.26	1.6	0.16	**1.6**
Acute Hazard Index	NA	NA	NA	**5.8**

For the maximally exposed individual (MEI), this facility-wide HRA identified a cancer risk of **46 in a million**, a chronic hazard index (chronic HI) of **1.6**, and an acute hazard index (acute HI) of **5.8**. As illustrated in Figure 1 below, the facility-wide cancer risk, chronic hazard index, and the acute hazard index will each exceed a Risk Action Level (RAL) specified in Regulation 11-18-218.2.

Figure 1: Comparison of Health Risks from AB&I to Risk Action Levels



The Air District's draft conclusion is that AB&I will be required to meet the Risk Reduction Plan (RRP) requirements identified in Regulation 11-18-301, because multiple health risk values exceed a RAL. Since the cancer risk, chronic HI, and acute HI each exceed a RAL, the RRP will need to demonstrate reductions in all three categories of health risk. The major pollutants contributing to cancer risk at the MEI are hexavalent chromium (81%)[1], benzene (5%), and cadmium (4%). For chronic HI, the major contributor is arsenic (66%). For acute HI, the major contributors are nickel (87%) and benzene (13%).

The Air District has determined that the following sources are significant sources of health risk, as defined in Regulation 11-18-222:

Table 2: Significant Sources of Cancer Risk (Source Risk ≥ 1.0 in a million) [1]

Source #	Source Description	Stack Emissions (CR in a million)	Fugitive Emissions (CR in a million)	Total Source Risk (CR in a million)
S53_54	Pipe Casting Machines P2 and P3	4.2 (Roof Vent)	12.1	**16.3**
S56_57	Pipe Casting Machines P5 and P6	4.2 (Roof Vent)	8.5	**12.7**
S2	Pouring, Cooling, Shakeout	4.0 (Baghouse)	4.9	**8.9**
S55	Pipe Casting Machine P4	2.1 (Roof Vent)	3.4	**5.5**
S1	Cupola (coke)	0.21	0.86	**1.1**

[1] For some sources at this facility, hexavalent chromium emissions were derived from Air District approved source test data. The Air District's approved procedures for source testing for hexavalent chromium emission rates require that reported emissions be based on the total measured value in the exhaust sample without subtracting any hexavalent chromium emissions that may have been detected in the blank sample. This is a standard conservative procedure for this pollutant. However, the amount of reported hexavalent chromium versus the amount of hexavalent chromium in the blank sample may need to be considered when assessing the potential effectiveness of control measures to satisfy the TBARCT requirement for a significant source when the reported hexavalent chromium emission rate is not detected or is very close to the hexavalent chromium emission rate in the blank sample, which is the case for hexavalent chromium emissions for S-1 Cupola.

Table 3: Significant Sources of Chronic HI (Source Impact ≥ 0.2)

Source #	Source Description	Stack Emissions (Chronic HI)	Fugitive Emissions (Chronic HI)	Total Source Impact (Chronic HI)
S2	Pouring, Cooling, Shakeout	0.14	0.74	**0.88**
S1	Cupola (coke)	0.015	0.30	**0.32**

Table 4: Significant Sources of Acute HI (Source Impact ≥ 0.2)

Source #	Source Description	Stack Emissions (Acute HI)	Fugitive Emissions (Acute HI)	Total Source Impact (Acute HI)
S2	Pouring, Cooling, Shakeout	1.1	4.6	**5.7**

If the facility cannot reduce health risks below the 10 in a million cancer risk RAL and below the 1.0 hazard index RAL, the facility must demonstrate in the RRP that each of these significant sources meet best available retrofit control technology for toxics (TBARCT). In accordance with Regulation 11-18-301, the facility was given 90 days to review and comment on the preliminary HRA. After considering comments from the facility and making necessary corrections, the Air District prepared this draft HRA for public review. The Air District will consider and respond to any comments received regarding this draft HRA before finalizing this HRA. If the final HRA demonstrates that health risks exceed a RAL, the facility will be notified in writing that it is required to meet the RRP requirements identified in Regulation 11-18-301. A proposed RRP will be due within 180 days of this written notification.

2. Introduction

Bay Area air quality has improved dramatically in recent decades due to comprehensive federal, state, and local programs that have reduced emissions from both stationary and mobile sources of air pollution. However, some local communities in the Bay Area experience air quality disparities and health vulnerabilities. The Air District's community health programs aim to reduce these air quality disparities and improve community health by reducing emissions and exposure to toxic air contaminants (TACs).

TACs are pollutants that may cause adverse health effects such as cancer, birth defects, respiratory ailments, or other serious illness. TACs are emitted from a wide range of sources in the Bay Area including diesel engines, cars, trucks, industrial processes, and gas stations. Types of TACs include diesel particulates, lead, benzene, formaldehyde, and hexavalent chromium.

Diesel particulate matter (DPM), mostly from on and off-road mobile sources, accounts for over 80 percent (%) of the inhalation cancer risk from TACs in the Bay Area.[2] On-road mobile sources and aircraft are the two most important source categories for non-cancer risks, comprising 57% of all chronic toxicity-weighted emissions and almost 80% of acute toxicity-weighted emissions.[3]

While mobile sources are a major contributor to Bay Area health risks, stationary sources may have a lower but still significant contribution to elevated health risks in some communities. The Air District's facility risk reduction program is targeted at these stationary source emissions from existing facilities. This program identifies facilities that have elevated health risks due to stationary source emissions and requires those facilities to reduce health risks.

The Air District's facility risk reduction program is implemented through Regulation 11, Rule 18, "Reduction of Risk from Air Toxic Emissions at Existing Facilities", or Rule 11-18. Rule 11-18 established stringent health risk-based thresholds for existing facilities. The Air District identifies facilities that have the potential for elevated health risks and conducts a comprehensive health risk assessment (HRA) for the facility based on TAC emissions from the stationary sources associated with that facility. Any facility that has health risks above a threshold must implement risk reduction measures that have been reviewed and approved by the Air District.

The Air District uses a screening procedure called a prioritization score to determine which facilities need to have a comprehensive HRA. AB&I Foundry is required to have a comprehensive HRA because the facility's cancer prioritization score exceeds 10 and non-cancer prioritization score exceeds 1. A facility that has a cancer prioritization score of 10 or higher or a non-cancer prioritization score of 1 or higher is considered to have the potential for elevated health risks and must undergo a comprehensive, facility-wide HRA to assess the applicability of the risk reduction requirements in Regulation 11, Rule 18.

3. Purpose

The purpose of this facility-wide HRA is to determine if the Air District's Regulation 11, Rule 18, "Reduction of Risk from Air Toxic Emissions at Existing Facilities", applies to this facility. Rule 11-18 requires existing facilities to reduce health risk if any of the facility's health risks exceed a Rule 11-18 risk action level (RAL). The Rule 11-18 risk action levels are identified in Regulation 11-18-218 and are summarized below:

[2] Planning Healthy Places, 2016, BAAQMD. https://www.baaqmd.gov/~/media/files/planning-and-research/planning-healthy-places/php_may20_2016-pdf.pdf.

[3] Preparation of Emission Inventories of Toxic Air Contaminants for the Bay Area Final Report 2. STI-906020.07-FR2, 2006, Sonoma Technology, Inc. https://www.baaqmd.gov/~/media/Files/Planning%20and%20Research/CARE%20Program/STI_Toxics_Final_Report2.ashx?la=en

Table 5: Regulation 11-18-218 Risk Action Levels (RALs)

Health Risk Category	Risk Action Levels
Cancer Risk	≥ 10 per million
Chronic Non-Cancer Hazard Index	≥ 1.0
Acute Non-Cancer Hazard Index	≥ 1.0

If a facility-wide health risk level exceeds any of these RALs, the facility must submit a Risk Reduction Plan (RRP) that demonstrates how this facility will either (a) reduce health risks below the RALs, or (b) ensure that each significant source of risk is equipped with best available retrofit control technology for toxics, or TBARCT. If the facility-wide HRA demonstrates that Rule 11-18 applies, the HRA report will also identify each significant source of health risk that could be subject to the rule's TBARCT requirements. The significant source thresholds and final health risk goals for Rule 11-18 are summarized below:

Table 6: Rule 11-18 Risk Reduction Goals

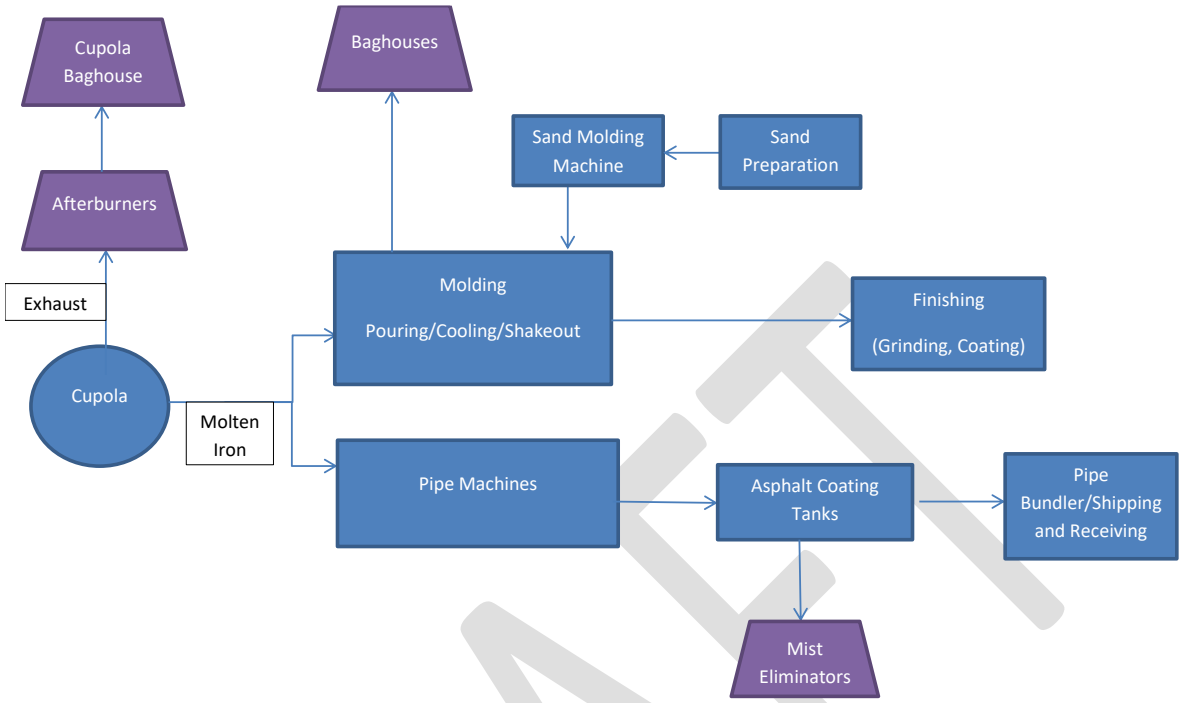
Health Risk Category	Significant Source Thresholds	Health Risk Goal
Cancer Risk	≥ 1.0 per million	< 10 per million
Chronic Non-Cancer Hazard Index	≥ 0.2	< 1.0
Acute Non-Cancer Hazard Index	≥ 0.2	< 1.0

4. Background

AB&I currently operates a grey iron foundry on San Leandro Street in Oakland that manufactures cast iron pipe and fittings for plumbing systems. AB&I's manufacturing process is shown in Figure 2, and the major operations are described below.

DRAFT

Figure 2: AB&I Manufacturing Process



Metal Melting Operations

Scrap iron is melted in the cupola by burning coke. Limestone is added as a flux to remove impurities, and silicon carbide is added as needed to alter the composition. Cupola operations are abated by afterburners and a baghouse. Molten metal is formed into pipes and fittings by two types of operations: sand molding operations and pipe casting machines.

Sand Molding Operations

At the sand molding operations, molten metal is transferred to an electric induction holding furnace before being poured into molds. For fittings and custom castings, the molten metal is poured into greensand molds, allowed to cool and harden, and then removed from the sand molds during shakeout. The castings are then conveyed to grinding and finishing where burrs and other excess metal are removed. The pipe fittings are then coated to prevent corrosion. The sand molding operations are equipped with baghouses that control captured particulate emissions.

Pipe Casting Operations

At the pipe casting operations, molten metal is poured into a permanent mold centrifugal casting machine as the machine rotates about its axis. The molten metal is thrown towards the inside mold wall, where it solidifies after cooling. In 2020, AB&I partially enclosed the pipe casting operations and installed high volume roof vents. This facility change was included in this HRA. As with the castings, excess metal is removed during grinding. The pipes are then dipped into asphalt to prevent corrosion and labeled. Asphalt coating operations are abated by mist eliminators.

Prioritization Score

The Air District uses a toxic emissions-based screening threshold called a "Prioritization Score" to determine if a facility needs to conduct a facility-wide HRA to assess Rule 11-18 applicability. Prioritization score calculation procedures are available on the Air District's web site.[4] For the purposes of determining Rule 11-18 HRA requirements, the Air District uses a proximity adjustment factor of 1.0 for all prioritization score calculations. Based on the Air District's 2017 toxic emission inventory for this facility, the cancer prioritization was 644 and the non-cancer prioritization score was 89. Landfills, power plants, and manufacturing operations have similar prioritization scores.

Under the Air District's Rule 11-18 Implementation Procedures[4], any non-exempt facility[5] with a cancer prioritization score greater than 10 or a non-cancer prioritization score greater than 1.0 has the potential for elevated health risks and is required to have a facility-wide HRA conducted in accordance with the Air District's 2016 HRA Guidelines[4]. Since both the cancer and non-cancer prioritization scores for AB&I Foundry exceeded these screening thresholds, the facility was required to undergo a facility-wide HRA to assess Rule 11-18 applicability. Any site that has a cancer prioritization score greater than 250 or a non-cancer prioritization score greater than 10.0 is a Phase I facility, which is a Bay Area facility with a high potential for elevated health risks. The Air District has identified thirty-four Phase I facilities, including AB&I Foundry. This draft HRA for AB&I will be the third draft HRA completed for Phase I facilities.

5. Emissions Inventory

The Air District has identified twenty operations (sources) at this facility that emit one or more toxic air contaminants (TACs) listed in Table 2-5-1 of Regulation 2, Rule 5. The Air District has identified fifty-six individual TACs or surrogates for classes of TACs[6] that are emitted by this facility. Seven of these sources have a combination of stack and fugitive emissions. These sources have intended releases through one or more stacks plus uncaptured (fugitive) emissions that occur at or near the source.

The Air District developed a toxic emissions inventory for this facility based on source specific throughput rates reported by the facility for 2017. TAC emission estimates for stack and fugitive

[4] Links to the Air District's Prioritization Score Procedures, Rule 11-18 Implementation Procedures, Health Risk Assessment Guidelines, and other resources are available on the Air District's web site at: https://www.baaqmd.gov/community-health/facility-risk-reduction-program

[5] Rule 11-18 exempts gasoline dispensing facilities and sites with only emergency standby diesel engines from health risk assessment and risk reduction requirements, if the site has a prioritization score below 250.

[6] Dioxins are one example of a class of TACs. Dioxins refers to a group of compounds called polychlorinated dibenzo-p-dioxins (PCDDs). Health effects for dioxins and related compounds, polychlorinated dibenzofurans (PCDFs) and dioxin-like polychlorinated biphenyls (PCBs), are expressed as an equivalent to a specific compound called 2,3,4,8-PCDD. In HARP2, this group of compounds is identified as 2,3,7,8-TCDD. The group of compounds identified as polycyclic aromatic hydrocarbons (PAH) are similarly treated, using benzo(a)pyrene (B(a)P) as the surrogate compound for health risk assessments. Diesel PM (DPM) is another example of a surrogate pollutant for multiple toxins.

release points are source specific and are based on detailed source specific emissions data submitted to the Air District by AB&I on 02/28/20: "ABI Emission Calculations Rule 11-18 Plant 62 022820" and "Fugitive ABI Emission Inv 022820". The Air District has reviewed the emissions inventory and made corrections as necessary to reflect recent source testing and other changes at the facility. The list of TAC sources and the Air District's tentatively approved TAC emissions are presented in Appendix A of this report. The facility-wide (TAC) emissions inventory is summarized below.

Table 7: Emission Inventory for Plant # A0062, AB&I Foundry

Toxic Air Contaminant (TAC)	Facility-Wide TAC Emissions	
	Annual Emissions (lbs/yr)	Hourly Emissions (lbs/hr)
1,1,2,2-Tetrachloroethane	7.00E+00	2.87E-03
1,1,2-Trichloroethane (Vinyl trichloride)	4.79E+00	2.00E-03
1,1,-Dichloroethane (Ethylidene dichloride)	1.43E+00	6.66E-04
1,3-Butadiene	1.12E+02	6.09E-02
1,4-Dichlorobenzene (p-Dichlorobenzene)	5.64E+00	2.34E-03
1,4-Dioxane (1,4-Diethylene dioxide)	2.48E+00	1.07E-03
Acetaldehyde	3.63E-01	7.96E-05
Acrolein	7.13E+00	2.62E-03
Acrylonitrile	9.96E+00	4.26E-03
Allyl Chloride	1.30E+00	6.09E-04
Ammonia	5.54E+00	2.77E-03
Arsenic (and compounds)	1.11E+00	5.64E-04
Benzene	1.42E+03	7.84E-01
Benzyl Chloride	4.40E+00	1.84E-03
Beryllium (and compounds)	3.77E-01	1.91E-04
Cadmium (and compounds)	2.52E+00	1.57E-03
Carbon Disulfide	1.97E+01	1.03E-02
Carbon Tetrachloride (Tetrachloromethane)	6.09E+00	2.51E-03
Chlorobenzene	6.30E+00	2.52E-03
Chloroform	2.04E+00	9.54E-04
Chromium 6+ (hexavalent chromium)	1.41E+00	9.03E-04
Copper (and compounds)	2.10E+01	1.33E-02
Ethyl Benzene	1.01E+02	5.52E-02
Ethyl Chloride (Chloroethane)	1.11E+00	5.21E-04
Ethylene Dibromide (1,2-Dibromoethane)	8.53E+00	3.47E-03
Ethylene Dichloride (1,2-Dichloroethane)	1.70E+00	7.95E-04
Ethylene Glycol Butyl Ether (EGBE)	9.46E+01	4.73E-02
Formaldehyde	3.24E+01	1.78E-02
Isopropyl Alcohol (Isopropanol)	2.69E+02	1.40E-01
Lead (and compounds)	4.06E+01	2.53E-02

DRAFT

Toxic Air Contaminant (TAC)	Facility-Wide TAC Emissions	
	Annual Emissions (lbs/yr)	Hourly Emissions (lbs/hr)
Manganese (and compounds)	1.10E+02	6.75E-02
Mercury (and compounds)	8.15E+00	4.55E-03
Methanol	9.58E+01	4.97E-02
Methyl Bromide (Bromomethane)	5.39E+00	2.15E-03
Methyl Chloroform (1,1,1-Trichloroethane)	2.28E+00	1.07E-03
Methyl Ethyl Ketone (2-Butanone)	3.69E+02	1.92E-01
Methyl tertiary-Butyl Ether (MTBE)	1.51E+00	7.07E-04
Methylene Chloride (Dichloromethane)	3.86E+00	1.71E-03
Naphthalene	4.78E+01	2.90E-02
n-Hexane	1.80E+02	8.17E-02
Nickel (and compounds)	1.73E+01	8.65E-03
Particulate from Diesel-Fueled Engines (DPM)	6.86E+00	5.28E-01
PCDD, PCDF (Treated as 2,3,7,8-TCDD)	2.01E-05	9.39E-09
P-Cresol	7.52E+01	3.81E-02
Perchloroethylene (Tetrachloroethylene)	6.88E+00	2.82E-03
Phenol	2.83E+01	1.72E-02
Propylene (Propene)	1.31E+03	7.30E-01
Selenium (and compounds)	2.49E+00	1.29E-03
Styrene	2.95E+01	1.62E-02
Toluene	9.73E+02	5.30E-01
Trichloroethylene	4.68E+00	1.95E-03
Vanadium (fume or dust)	3.50E-01	1.63E-04
Vinyl Acetate	2.88E+00	1.35E-03
Vinyl Chloride (Chloroethylene)	2.26E+00	9.40E-04
Vinylidene Chloride (1,1-Dichloroethylene)	1.66E+00	7.78E-04
Xylenes (mixed isomers)	1.85E+02	1.01E-01

Emissions Inventory Procedures

The emission calculation procedures for the major operations and key toxic pollutants are described below.

Cupola (S-1):

The S-1 Cupola is abated by a pair of afterburners (A-20 and A-22) configured in parallel followed by a baghouse (A-19). The afterburners control organic TAC emissions such as benzene, while the baghouse controls particulate metal TAC emissions such as hexavalent chromium (CrVI). The Air District identified two emission release points for S-1: emissions from the A-19 baghouse (identified as S1 in Tables 11-13) and fugitive emissions that are not captured by the abatement systems (identified as F1 in Tables 11-13). The key pollutant for S-1 is CrVI. All TAC emissions

DRAFT

from S1 and F1 are identified in "Appendix A: Air District Updated Emissions Inventory" and were estimated as follows.

For release point S1, CrVI emissions exiting A-19 were estimated based on the results of a source test conducted at AB&I in August 2019[7]. The average measured emission rate[8] at the outlet of A-19 was 2.3E-06 pounds per hour (0.018 ug/dscm) and the average quantity of molten iron poured by the cupola furnace during the source test was 34.8 tons per hour. The resulting CrVI emission factor is 6.6E-8 pounds CrVI per ton of metal poured (2.3E-6 pounds/hour ÷ 34.8 tons/hour). The cupola furnace processed 60,788 tons of molten iron in calendar year 2017. The annual cupola baghouse emissions were calculated by multiplying the throughput rate by the CrVI emission factor (60,788 tons/year * 6.6E-08 pounds/ton), resulting in 4.02E-03 pounds/year of CrVI.

For release point F1, fugitive CrVI emissions from the cupola furnace were estimated as follows. The August 2019 source test determined hourly total particulate matter (TPM) emissions at the inlet and outlet of A-19 to be 602.3 pounds per hour and 1.46 pounds per hour, respectively. Hourly fugitive TPM emissions were determined using AB&I's estimated capture efficiency of 99% for cupola operations, where fugitive emissions are 6.02 pounds/hour (602.3 pounds/hour * (1-0.99)). The hourly CrVI emissions are based on a ratio of the fugitive and abated TPM emission rates multiplied by the hourly CrVI emission rate ((6.02 ÷ 1.46) * 2.3E-06), resulting in 9.49E-6 pounds CrVI per hour. For annual CrVI emissions, the hourly CrVI emission rate is divided by the hourly processing rate and multiplied by the annual processing rate (9.49E-06 ÷ 34.8 * 60,788), resulting in 1.66E-02 pounds per year of CrVI.

For organic TACs, such as benzene, hourly emissions were based on a source test conducted at AB&I in January 2017 and annual emissions were based on the measured pound per ton emission factor and the annual processing rate. The hourly and annual fugitive organic emissions were determined using AB&I's estimated capture efficiency of 99% capture for the cupola operations and a destruction/removal efficiency (DRE) of 97% for A-20 and A-22. As an example, hourly fugitive benzene emissions are estimated at 3.03E-03 pounds per hour ((0.009 pounds/hour ÷ (1-0.97)) ÷ 0.99) - (0.009 ÷ (1-0.97)). Annual fugitive benzene emissions are estimated at 5.31E+00 pounds per year ((1.58E+01 ÷ (1-0.97)) ÷ 0.99) - (1.58E+01 ÷ (1-0.97)).

<u>Pouring, Cooling, and Shakeout Operations (S-2):</u>

S-2 consists of two manufacturing lines (DISA 270 and DISA 2013) and each line consists of its own pouring, cooling, and shakeout section. The pouring and cooling sections associated with

[7] The Air District identifies source tests conducted by outside (non-Air District) contractors by the designation "OS" and a number. The August 2019 source test conducted at AB&I is identified as Air District Source Test Number: OS-7420.

[8] Air District approved source test procedures for CrVI require that reported emissions be based on the total measured value in the sample without subtracting any CrVI emissions that may have been detected in the blank sample. This is a standard conservative procedure for this pollutant. The Air District's review of OS-7420 found that the source testing firm had erroneously "blank-corrected" CrVI emissions at the Cupola Outlet, where "blank-corrected" means that blank sample emission rate had been subtracted from the total measured emission rate. Therefore, the Air District reported corrected values for CrVI emissions at the Cupola Outlet, which were used for these emission calculations. The source testing firm noted that measured CrVI results were approximately the same as the amount detected in the blank.

DISA 270 and DISA 2013 are collectively abated by A-63 (Baghouse #4) and A-21 (Baghouse #5), and the shakeout sections are abated by A-14 (Baghouse #2). Emissions from the pouring and cooling sections consist of organic TACs such as benzene associated with binders used in the sand used to make the cores and molds that flash off when contacted by the hot molten metal that is poured into the molds at DISA 270 and DISA 2013 molding systems (S-58 and S-59, respectively) and particulate metal TACs such as CrVI associated with molten metal poured into the molds. In contrast, emissions from the shakeout sections consist of particulate metal TACs.

S-2: Pouring and Cooling sections abated by A-63

TAC emissions from S-2 abated by and exiting A-63 are summarized under "S2_B4 (B4S2)" and were estimated as follows. Hourly and annual CrVI emissions of 1.84E-05 pounds per hour and 3.09E-02 pounds per year exiting A-63 were estimated based on the results of a source test conducted at AB&I in January 2012[9]. This source test found: 1.72E-4 pounds/hour of total chromium, 0.0017 pounds/hour of select metal TACs[10], and 0.0058 pounds/hour of total metal TACs. CrVI was not measured during this source test. AB&I estimated that CrVI emissions were 5.5E-6 pounds/hour, which is 3.2% of the total chromium emission rate. The Air District could find no basis for this CrVI percentage and believed this CrVI percentage was too low. The Air District used the ratio of the total metal emission rate (0.0058 pounds/hour) to the select metal TAC emission rate (0.0017 pounds/hour) from the January 2012 source test to develop a more conservative estimate of hexavalent chromium emissions. The Air District scaled up AB&I's hourly CrVI emissions exiting A-63 by using the following equation: (0.0058 ÷ 0.0017 * 5.50E-06), which equals 1.84E-5 pounds/hour of CrVI. AB&I stated the total metal poured in calendar year 2017 was 13,247 tons and the total metal poured during the duration of the January 2012 source test was 7.9 tons per hour. The Air District's estimated CrVI emission rate is 11% of the total chrome emissions from A-63 and is equivalent to an abated CrVI emission rate of 2.3E-6 pounds of CrVI emitted from A-63 per ton of metal poured.[11] Annual CrVI was determined by scaling the hourly CrVI emission rate by the annual versus hourly throughput rate and (1.84E-05 * (13,247 ÷ 7.9)) estimated at 3.09E-02 pounds per year.

AB&I provided a baghouse control efficiency of 98% and a building capture efficiency of 50%. Fugitive CrVI emissions from S-2 and the A-63 Baghouse area were estimated based on the above efficiencies provided by AB&I as follows. In accordance with California Office of Environmental Health Hazard Assessment (OEHHA) guidance, particulate metal TAC emissions should be estimated based on Total Particulate Matter (TPM) emissions and not just PM_{10} (Particulate matter with an aerodynamic diameter equal to 10 microns or less). The TPM exiting A-63 was determined

[9] The January 2012 source test conducted at AB&I is identified as Air District Source Test Number: OS-6665.

[10] Select metal TACs were calculated as the sum of the emissions for arsenic, beryllium, cadmium, hexavalent chromium, cobalt, copper, lead, manganese, mercury, nickel, selenium, and vanadium. One-half of the reported detection limit was used for calculating emissions of arsenic, beryllium, and selenium because these metals were not detected during OS-6665.

[11] Subsequent source testing conducted by Montrose in January 2020 at A-63 (Air District Source Test Number: OS-7634, reviewed by Air District on March 25, 2021) for CrVI and total chromium emissions found hourly emission rates of 7.8E-6 pounds/hour of CrVI and 3.8E-5 pounds/hour of total chromium. CrVI was 21% of the total chromium emissions, and the emission rate was 9.9E-7 pounds CrVI/ton poured, which is about 43% of the CrVI emission factor used in the HRA. Therefore, the Air District's CrVI emission rate used for A-63 in the HRA is a conservative estimate of emissions. There was insufficient time to include this recently approved source test data into this draft HRA.

during the January 2012 source test to be 0.6476 pounds per hour. Fugitive emissions are the difference between process emissions and emissions captured and routed to A-63. Back calculating, process and captured emissions are 65.49 pounds per hour and 64.18 pounds per hour, respectively. Hence, the fugitive emissions prior to exiting the building and the fugitive emissions exiting the building and into the atmosphere are: 1.31 pounds/hour (65.49 – 64.18) and 0.655 pounds/hour (1.31*0.50), respectively. Hourly fugitive CrVI emissions summarized under "S2F_B (BS2F)" were estimated by a ratio of the fugitive TPM estimate versus the TPM emitted from the baghouse multiplied by the CrVI emission rate from the baghouse (0.655 ÷ 0.6476 * 1.84E-05), resulting in 1.86E-05 pounds per hour. Annual fugitive CrVI emissions for BS2F are scaled from the hourly and annual pour rates (1.86E-05 * (13,247 ÷ 6.4)), resulting in 3.87E-02 pounds per year.

Hourly benzene emissions of 2.87E-01 pounds per hour from S-2 exiting A-63, which does not abate organic TACs, summarized under "S2_B4 (B4S2)" in Appendix A is based on a source test conducted at AB&I in January 2012. The average quantity of molten iron processed by S-2 during the source test was 6.4 tons per hour, and S-2 processed 13,247 tons of molten iron in calendar year 2017. The annual S-2 baghouse emissions of 5.97E+02 pounds per year summarized under "S2_B4 (B4S2)" in Appendix A was estimated by multiplying the benzene emission rate of 4.51E-02 pounds per ton (2.87E-01 ÷ 6.4) with 13,247 tons per year. The hourly and annual fugitive benzene emissions summarized under "S2F_B (BS2F)" in Appendix A are 5.86E-03 pounds per hour ((2.87E-01 ÷ 0.98) - (2.87E-01)) and 1.22E+01 pounds per year ((5.97E+02 ÷ 0.98) - (5.97E+02)), respectively.

<u>S-2: Pouring and Cooling sections abated by A-21</u>

TAC emissions from S-2 abated by and exiting A-21 summarized under "S2_B5 (B5S2)" were estimated as follows. Hourly and annual CrVI emissions of 7.76E-06 pounds per hour and 1.27E-02 pounds per year exiting A-21 were estimated based on the results of a source test conducted at AB&I in January 2012.[12] This source test found: 1.46E-4 pounds/hour of total chromium, 0.0014 pounds/hour of select metal TACs[13], and 0.0041 pounds/hour of total metal TACs. CrVI was not measured during this source test. AB&I estimated that CrVI emissions were 2.6E-6 pounds/hour, which is 1.8% of the total chromium emission rate. The Air District could find no basis for this CrVI percentage and believed this CrVI percentage was too low. The Air District used the ratio of the total metal emission rate (0.0041 pounds/hour) to the select metal TAC emission rate (0.0014 pounds/hour) from the January 2012 source test to develop a more conservative estimate of hexavalent chromium emissions. The Air District scaled up AB&I's hourly CrVI emissions exiting A-21 by using the following equation: (0.0041 ÷ 0.0014 * 2.60E-06), which equals 7.76E-6 pounds/hour of CrVI. AB&I stated the total metal poured in calendar year 2017 was 13,247 tons and the total metal poured during the duration of the CrVI test was 8.1 tons per hour. The Air District's estimated CrVI emission rate is 5% of the total chrome emissions from A-21 and is equivalent to an abated CrVI emission rate of 9.6E-7 pounds of CrVI emitted from A-21 per ton

[12] The January 2012 source test conducted at AB&I is identified as Air District Source Test Number: OS-6663.

[13] Select metal TACs were calculated as the sum of the emissions for arsenic, beryllium, cadmium, hexavalent chromium, cobalt, copper, lead, manganese, mercury, nickel, and selenium. One-half of the reported detection limit was used for calculating emissions of arsenic, beryllium, and selenium, because these compounds were not detected during OS-6663.

of metal poured.[14] Annual CrVI was determined by scaling the hourly CrVI emission rate by the annual versus hourly throughput rate and (7.76E-6 * (13,247 ÷ 8.1)) estimated at 1.27E-2 pounds per year.

AB&I provided a capture efficiency of 98% and a building capture efficiency of 50%. Fugitive CrVI emissions from S-2 abated by A-21 were estimated based on the above efficiencies provided by ABI as follows. As with fugitive emissions for the Baghouse A-63 area, fugitive emissions from the Baghouse A-21 area were estimated using TPM. The TPM exiting A-21 was determined during the January 2012 source test to be 0.7909 pounds per hour. Fugitive emissions are the difference between process emissions and emissions captured and routed to A-21. Back calculating, process and captured emissions are 79.94 pounds per hour and 78.34 pounds per hour, respectively. Hence, the fugitive emissions prior to exiting the building and the fugitive emissions exiting the building and into the atmosphere are 1.60 pounds per hour (79.94 - 78.34) and 0.80 pounds per hour (1.60*0.50), respectively. Fugitive CrVI emissions summarized under "S2F_C (CS2F)" were estimated to be 7.84E-06 pounds per hour (0.80 ÷ 0.7909 * 7.76E-06) and 1.28E-02 pounds per year (7.84E-06 * (13,247 ÷ 8.1)).

Hourly benzene emissions of 4.69E-01 pounds per hour from S-2 exiting A-21, which does not abate organic TACs, summarized under "S2_B5 (B5S2)" in Appendix A is based on a source test AB&I did in January 2012. The average quantity of molten iron processed by S-2 during the source test was 8.033 tons per hour, and S-2 processed 13,247 tons of molten iron in calendar year 2017. The annual S-2 baghouse emissions of 7.74E+02 pounds per year summarized under "S2_B5 (B5S2)" in Appendix A was estimated by multiplying the benzene emission rate of 5.84E-02 pounds per ton (4.69E-01 ÷ 8.033) with 13,247 tons. The hourly and annual fugitive benzene emissions summarized under "S2F_C (CS2F)" in Appendix A are 9.58E-03 pounds per hour ((4.69E-01 ÷ 0.98) - (4.69E-01)) and 1.58E+01 pounds per year ((7.74E+02 ÷ 0.98) - (7.74E+02)), respectively.

<u>S-2: Shakeout sections abated by A-14</u>

Unlike the pouring and cooling sections discussed in the preceding paragraphs that are abated by A-63 and A-21, the shakeout (or cleaning) sections process metal that has already cooled and with no combustion or heating associated. Hence, only metal TAC emissions were evaluated. TAC emissions from S-2 abated by and exiting A-14 summarized under "S2_B2 (B2S2)" were estimated as follows. Hourly and annual CrVI emissions of 4.20E-06 pounds per hour and 1.03E-02 pounds per year exiting A-14 were estimated based on the results of a source test conducted at AB&I in March 2019[15]. The March 2019 source test determined total chromium emissions and did not test for CrVI. Rather than assume there was no CrVI, the above emission rate assumed 1/7th

[14] Subsequent source testing conducted by Montrose in January 2020 at A-21 (Air District Source Test Number: OS-7635, reviewed by Air District on March 25, 2021) for CrVI and total chromium emissions found hourly emission rates of 5.4E-6 pounds/hour of CrVI and 2.4E-5 pounds/hour of total chromium. CrVI was 23% of the total chromium emissions, and the emission rate was 8.7E-7 pounds CrVI/ton poured, which is about 91% of the CrVI emission factor used in the HRA. Therefore, the Air District's CrVI emission rate used for A-21 in the HRA is an appropriate assumption. There was insufficient time to include this recently approved source test data into this draft HRA.

[15] The March 2019 source tests conducted at AB&I are identified as Air District Source Test Numbers: OS-7275, OS-7276, and OS-7277.

(14%) of total chrome emissions to be CrVI. AB&I stated the total metal poured in calendar year 2017 was 13,247 tons and the total metal poured during the duration of the March 2019 source test was 5.4 tons per hour. Hourly and annual CrVI emissions exiting A-14 summarized under "S2_B2 (B2S2)" were estimated to be 4.20E-06 pounds per hour (2.94E-05 ÷ 7) and 1.03E-02 pounds per year ((4.20E-06 ÷ 5.4) * 13,247), respectively.

AB&I provided a baghouse control efficiency of 95% and a building capture efficiency of 50%. Fugitive CrVI emissions from S-2 abated by A-14 were estimated based on the above efficiencies provided by ABI as follows. The March 2019 source test only evaluated metal TACs and not TPM. A source test conducted in October 2016[16] determined filterable PM exiting A-14 to be 0.133 pounds per hour. Using the filterable PM as a starting point, fugitive emissions are the difference between process emissions and emissions captured and routed to A-14. Back calculating, process and captured emissions are 13.90 pounds per hour and 13.21 pounds per hour. Hence, the fugitive emissions prior to exiting the building and the fugitive emissions exiting the building and into the atmosphere are 0.69 pounds per hour (13.90 – 13.21) and 0.35 pounds per hour (0.69*0.50), respectively. Fugitive CrVI emissions summarized under "S2F_A (AS2F)" were estimated to be 1.09E-05 pounds per hour (0.35 ÷ 0.133 * 4.20E-06) and 2.69E-02 pounds per year (1.09E-05 * (13,247÷ 5.4)).

Pipe Casting Operations (S-53, S-54, S-55, S-56, and S-57):

The Pipe Casting Machines (PCMs) are downstream of the cupola furnace (S-1), holding furnace (S-25), and pouring furnaces (S-7, S-9) and their emissions exhaust into the atmosphere unabated. S-7 and S-9 are downstream of S-25 which is downstream of S-1. Molten metal from S-7 and S-9 is poured into S-53/S-54 and S-56/S-57, respectively. S-1 and/or 25 supply the molten metal to S-55.

The PCMs do not have dedicated stacks, only fugitive emissions. However, AB&I recently installed roof vents over the Pipe Casting area to improve the dispersion of pollutants. Since there is no practical way to quantify how much of the fugitive emissions from Pipe Casting are drawn into the new roof vents, an assumption of 50% was used (i.e., 50% of pollutants emitted at ground level and 50% drawn by fans through the roof vents). The emission release points are: S5354 (50% of emissions from S-53 and S-54), S5657 (50% of emissions from S-56 and S-57), S55 (50% of the emissions from S-55), and PCV (50% of the sum of the emissions from all PCMs).

The key pollutant from the pipe casting machines is CrVI. Emissions from the PCMs were estimated as discussed below.

For pipe casting operations, AB&I provided emission factors for metals (cadmium, chromium, copper, lead, manganese, and selenium) from "Hazardous Air Pollutant Emission Factor Review Cast Iron Pipe Centrifugal Casting Process, 2006". For example, the emission factor for chromium was 4.51E-4 pounds per ton of metal poured. The Air District estimated the CrVI versus chromium

[16] The October 2016 source test conducted at AB&I is identified as Air District Source Test Numbers: OS-6478.

ratio for the pipe casting operations to be 6.25% based on an August 2019[17] sources test conducted at Fume Baghouse A-25, which controls S-25. The CrVI emission factor was determined by applying the CrVI ratio to the total chromium emission factor (4.51E-4*.0625) and was 2.8E-05 pounds per ton. Annual uncontrolled CrVI emissions from each PCM were estimated for each pipe casting machine based on the source-specific annual throughput. Hourly emissions were estimated by dividing annual emissions by the source-specific operating hours.

For release point S5354, the Air District added emissions from S-53 and S-54 and applied a 50% factor. A similar procedure was used for S5657 and S55. Emissions from S-53, S-54, S-55, S-56, and S-57 were summed and multiplied by 50% to determine the emissions for the roof vent release points (PCV).

6. Dispersion Modeling

The AERMOD air dispersion computer model (Version 19191) was used to estimate annual average and maximum 1-hour ambient air concentrations.

Receptors and Terrain Data

A nested receptor grid with progressive receptor spacing of 20, 40, 60, 80, and 100 meters was used in the final dispersion model. A total of 3,709 discrete cartesian receptors extending out to a final distance of 2,400 meters in each rectangular direction from the facility center were included. All receptors in the model include a flagpole height of 1.5 meters to better capture pollutant concentrations in the human breathing zone. The model is referenced in NAD 83 UTM coordinates and uses terrain data from 10-meter resolution USGS NED files covering Contra Costa and Alameda Counties.

Emission Point Allocations - Modeled Source Designations

The model includes 40 "modeled sources", or emission release points, consisting of: 15 point sources, 15 volume sources, and 10 area sources. These modeled sources are allocated into 30 source groups. Some sources have multiple stacks and/or release points, such as fugitive emissions. Other sources have combined emissions from a single stack or release point. To portray these situations most accurately, the modeled sources represent release points that do not necessarily match up with individual source numbers as designated by the Air District. Since TAC emissions are linked to source numbers and the release point designation may only include a portion of these emissions, most of the modeled area sources were given unit emission values (X/Q) that are less than 1.0 to represent the fraction of the emissions from the source number. These fractional sources were then combined as appropriate into source groups, each with combined X/Q values that equal 1.0. The model outputs dispersion results for the 30 source groups[18], which are used in the health

[17] The August 2019 source test conducted at A-25 at AB&I is identified as Air District Source Test Numbers: OS-7420. The CrVI emission rate was 2.0E-6 pounds/hour and the total chromium emission rate was 3.2E-5 pounds/hour.

[18] B6S2: Baghouse 6 for S2 "Pouring, Cooling, Shakeout" was included in the dispersion model but was not included the HRA because no emissions data was provided for this baghouse.

risk calculations. These source groups coincide with the TAC emissions shown in Appendix A "Air District Approved Emissions Inventory". The allocations of emissions for each permitted source to the modeled emission point are shown in Appendix G "AERMOD: Emission Point Allocations".

Meteorological and Upper Air Data

Model runs were made with five consecutive years of Oakland International Airport (KOAK) AERMET meteorological data sets (2013-2017). AERMET sets (Version 18081) were processed by BAAQMD meteorology staff. The KOAK meteorological tower is approximately 3 miles southwest of the AB&I boundary and is considered representative for the modeled area due to proximity and the lack of any significant terrain features between the two sites. Upper air data coincident with the local met data was also taken from the Oakland International Airport. Land use parameters including surface roughness length, albedo, and Bowen ratio were evaluated using the USEPA AERSURFACE tool.

Air Dispersion Coefficients

The model uses the Urban dispersion algorithm. Dispersion coefficients for AERMOD were selected based on the land use classification method proposed by Auer (Auer, 1978)[19]. The classification determination involves assessing land use by Auer's categories within a 3-km radius of the facility site. USEPA's AERSURFACE tool (version 20060) with USGS National Land Cover Data (NLCD_2016) was used to summarize the land use classifications within a 3-km radius of the facility[20]. The land use was determined to be urban because Auer Urban land use categories made up more than 50% of the total area (78.7%). Therefore, AERMOD was run with the Urban dispersion algorithm.

Emissions Scalars

Based on comments made on behalf of the facility, emissions scalars were used in the model so that only actual facility operating hours would be considered in the meteorological data set. For facilities with daytime only operation, this generally has the effect of reducing modeled ground level pollutant concentrations because calm wind conditions that lead to higher concentrations are more likely to occur at night. Sources associated with the Cupola group sources were assumed to operate from 4am to 3pm, Molding group sources operate 5am to 4pm, and Pipe group sources 5am to 4pm. Each of these groups operate for 11 hours per day so a scalar value of 2.18 was applied for each operating hour (11 x 2.18 = 24), so that all daily hours are accounted for in the 8,760 hour annual average.

Since the Acute Hazard Index is based on a single highest hour instead of a 365 day period average, scalar values are not appropriate. Therefore, 1-hour averages used in the Acute HI analysis that were based on the same modeling data that included scalar values were corrected by a factor of 0.46 (2.18 x 0.46 = 1.00) to accurately reflect 1-hour concentration averages during the source operation schedules.

[19] Auer, Jr., A.H. (1978). Correlation of Land Use and Cover with Meteorological Anomalies. Journal of Applied Meteorology, 17(5), 636-643.

[20] See Appendix A, BAAQMD Health Risk Assessment Modeling Protocol

7. HARP2 Risk Assessment

The HARP2 Air Dispersion Modeling and Risk Tool (ADMRT) was used to evaluate health risk in the following categories: (1) Cancer Risk and (2) Chronic Hazard Index for Residential, Off-site Worker, and Student receptors; and (3) Acute Hazard Index for the maximally exposed receptor.

- Individual cancer risk is the increased chance for a person to contract cancer after long-term exposure to facility emissions (for example, 30 years for a resident and 25 years for a worker).
- The chronic hazard index is a ratio of annual average concentrations of TACs in the air to established chronic reference exposure levels (RELs). A chronic hazard index below 1.0 indicates that adverse non-cancer health effects from long-term exposure are not expected.
- The acute hazard index is a ratio of maximum 1-hour average concentrations of TACs in the air to established acute RELs. An acute hazard index below 1.0 indicates that adverse non-cancer health effects from infrequent short-term exposure are not expected.

Chronic exposure assumptions assume that TAC emissions are continuous and that pollutant concentrations are annual average values. Acute exposure assumes a maximum hourly emission rate. Dispersion modeling for the ADMRT is based on unit emission rates of 1.0 grams per second for each source (or combined source) and determines 1-hour and annual average unit concentrations in micrograms per cubic meter, per gram per second (X/Q). Health risk estimates were calculated in accordance with the BAAQMD's Air Toxics NSR Program HRA Guidelines, dated December 2016. Since the facility's TAC emissions include multi-pathway pollutants (arsenic, hexavalent chromium, lead, and dioxins), non-inhalation exposure pathways were also evaluated in the HRA. Non-inhalation pathways include dermal adsorption, soil ingestion, and mother's milk ingestion.

Since some sources at this facility have no particulate abatement, the more conservative deposition rate of 0.05 meters per second was chosen for the HARP2 calculation program to use when determining health impacts from multi-pathway pollutants.

Residential Receptors

Estimates of residential risk assume potential exposure to annual average TAC concentrations occur 350 days per year, for 30 years. In addition, residential risk estimates assume a 95th percentile breathing rate for age groups younger than two years old, and 80th percentile breathing rate for age groups that are older than or equal to two years of age. Residential cancer risk estimates include age sensitivity factors (ASFs) and fraction of time at home (FAH) adjustments. The ASFs are age-specific weighting factors used in calculating cancer risks from exposures of infants, children and adolescents, to reflect their anticipated special sensitivity to carcinogens. For risk

assessment of residential receptors, FAH (73%) was applied to age groups greater than or equal to 16 years, per BAAQMD's policy.[21]

Worker Receptors

Risk estimates for offsite workers assume potential exposure occurs 8 hours per day, 250 days per year, for 25 years. For offsite workers, the 95th percentile 8-hour breathing rate based on moderate activity was assumed. The facility data submittal for this HRA indicates that different emission sources at the facility have different operating schedules, but none are continuous. In the case of non-continuous source operation at a facility, off-site worker exposures may be greater than that which is predicted by the standard exposure assumption values for continuous emitting sources. This is because rather than being at home for a significant portion of a continuous source's operation, the worker's schedule may coincide partially or fully with the source's operating schedule. To adjust for this increased potential for exposure to air pollutants, a worker adjustment factor (WAF) is added for cancer risk calculations. For this evaluation, a WAF of 3.05 was used based on the schedules that were most prevalent among the significant sources: 11 hours per day, 4 days per week, and 52 weeks per year.

Student Receptors

For children ages 2 up to 16 years at schools and daycare facilities outside of the home, risk estimates assume potential exposure occurs 10 hours per day, 180 days per year, for 9 years. The 95th percentile 8-hour breathing rate based on moderate activity (for age group: 2<16 years; 520 L/kg-8 hours) was assumed for all students. Similar to the WAF, an exposure adjustment factor is also applied for children who attend school near a non-continuous emitting source of air pollution. Although the exposure assumptions for students and workers are different, in this case the appropriate adjustment factor applied was the same; 3.05.

Acute Receptors

Receptors for each offsite location within the modeling domain may be exposed to toxic air contaminants for durations as short as 1 hour. An acute receptor location could be almost any off-site property location that is accessible to humans. However, discretion should be used as to the likelihood of exposure in certain cases, e.g., roadways, bodies of water, steep terrain, etc. The potential for even intermittent public exposure is the determining factor when designating acute receptor locations.

Receptor-specific exposure assumptions are summarized in Table 8.

[21] From Section 2.1.3.1 of the BAAQMD HRA Guidelines, the default FAH assumptions are 1.0 for age groups of less than 2 years old and 2-16 years of age and 0.73 for ages 16 years and older. Since the HRA results determined that a school is located within the 1 in a million isopleth for cancer risk, no further FAH refinements are allowed.

Table 8: Exposure Assumptions by Receptor Type

Receptor Type	Exposure Frequency and Duration			Intake Rate % Breathing Rate Category		Exposed Person's Age Range
	Days per Year	Hours per Day	Years			
Residential	350	24	30	RMP using the Derived Method	95th percentile for age groups < 2 years, and 80th percentile for age groups ≥ 2 years	> 3rd Trimester
Worker	250	8	25	OEHHA Derived Method	8-hr breathing rate with moderate intensity	> 16 years
Student	180	10	9	95th percentile high end	8-hr breathing rate with moderate intensity	< 16 years
Acute (PMI)	Max 1-hour	Max 1-hour	NA	OEHHA Derived Method	Long Term, 24 hours	NA

8. Detailed Summary of Results

The estimated facility-wide health risks resulting from stationary source operations at AB&I Foundry are summarized in Tables 9 and 10 below. At the MEI locations for each health risk category, the maximum estimated health risks are: 46 in a million for cancer risk, 1.6 for chronic hazard index, and 13 for acute hazard index. The pollutants contributing to cancer risk at the MEI are hexavalent chromium (81%), benzene (5%), and cadmium (4%). For chronic HI, the major contributor is arsenic (66%). Chronic arsenic exposure may impact the development, cardiovascular, nervous, respiratory systems and the skin. For acute HI, the major contributors are nickel (87%) and benzene (13%). Acute nickel and benzene exposure may impact the immune system. Acute benzene exposure may also impact reproductive/development and blood systems.

Table 9: Risk Values at Highest Receptor

Receptor	NAD 83 UTM Coordinates (meters)		Cancer Risk (in a million)	Chronic HI	Acute HI
	Easting (x)	Northing (y)			
Resident	571,701	4,178,372	22	0.26	NA
Worker	571,141	4,178,252	**46**	**1.6**	NA
Student	571,641	4,178,672	6.6	0.16	NA
PMI (Max 1-hour)	570,961	4,178,292	NA	NA	**5.8**

Table 10: Pollutant Risk Contributions at Highest Receptor

Risk Category	Risk Value	NAD 83 UTM Coordinates (meters)		Risk Driver 1	%	Risk Driver 2	%
Cancer Risk in a Million	**46**	571,141	4,178,252	Cr(VI)	81%	Benzene	5%
Chronic Hazard Index (CNS)	**1.6**	571,141	4,178,252	Arsenic	66%	Manganese	21%
Acute Hazard Index (REP/DEV)	**5.8**	570,961	4,178,292	Nickel	87%	Benzene	13%

Tables 11, 12, and 13 below show the ranked source contributions for each risk category at the highest receptor.

Table 11: Worker Cancer Risk Rank by Modeled Source

Rank	Modeled Source Name	Description	Cancer Risk	Cancer Risk in a million	% Worker CR
1	S5354	Pipe Casting: S53, S54	1.21E-05	12.1	26.41%
2	PCV	Pipe Casting Roof Vents	1.05E-05	10.5	22.79%
3	S5657	Pipe Casting: S56, S57	8.48E-06	8.5	18.48%
4	S55	Pipe Casting Machine P6: S55	3.39E-06	3.4	7.39%
5	BS2F	Pouring, Cooling, Shakeout: S2, Fugitive B	2.38E-06	2.4	5.18%
6	B5S2	Pouring, Cooling, Shakeout: S2, Baghouse 5	2.09E-06	2.1	4.55%
7	B4S2	Pouring, Cooling, Shakeout: S2, Baghouse 4	1.84E-06	1.8	4.02%
8	AS2F	Pouring, Cooling, Shakeout: S2, Fugitive A	1.55E-06	1.6	3.38%
9	CS2F	Pouring, Cooling, Shakeout: S2, Fugitive C	9.82E-07	0.98	2.14%
10	F3	Sand Preparation/Cooler: S3, Fugitive	8.64E-07	0.86	1.88%
11	F1	Cupola (Coke): S1 Fugitive	8.64E-07	0.86	1.88%
12	S1	Cupola (Coke): S1	2.60E-07	0.26	0.57%
13	F4	Wheelabrator Shot Blast #1: S4, Fugitive	9.57E-08	0.096	0.21%
14	F25	Holding Furnace, Electric Channel: S25, Fugitive	9.07E-08	0.091	0.20%
15	B2S2	Pouring, Cooling, Shakeout: S2, Baghouse 2	8.37E-08	0.084	0.18%
16	S49	Casting, Grinding: S49	8.37E-08	0.084	0.18%
17	S31	Standby Generator Diesel Engine: S31	7.61E-08	0.076	0.17%
18	S3	Sand Preparation/Cooler: S3	5.61E-08	0.056	0.12%
19	S25	Holding Furnace, Electric Channel: S25	4.42E-08	0.044	0.10%
20	S4	Wheelabrator Shot Blast #1: S4	4.21E-08	0.042	0.09%
21	S37	Hot Oil Heater: S37	1.23E-08	0.012	0.03%
22	S10	Metal Induction Furnace (Other Parts): S10	9.37E-09	0.0094	0.02%
23	S46	Sand Storage Bunker: S46	4.70E-09	0.0047	0.01%

DRAFT

Rank	Modeled Source Name	Description	Cancer Risk	Cancer Risk in a million	% Worker CR
24	S9	Metal Induction Furnace (Pipe): S9	4.60E-09	0.0046	0.01%
25	S7	Metal Induction Furnace (Pipe): S7	4.56E-09	0.0046	0.01%
26	F64	Metal Induction Furnace (Other Parts): S64, Fugitive	2.49E-09	0.0025	0.01%
27	S64	Metal Induction Furnace (Other Parts): S64	1.33E-09	0.0013	0.00%
28	S32	Flow Jet Pipe Labeler: S32	0.00E+00	0.00000	0.00%
29	S47	Storage Piles: S47	0.00E+00	0.00000	0.00%
30	S51	Specialty Finishing Paint Dip Tanks: S51	0.00E+00	0.00000	0.00%
		Total Cancer Risk =	**4.59E-05**	**45.9**	**100.00%**

Table 12: Worker Chronic HI Rank by Modeled Source

Rank	Modeled Source Name	Description	Chronic HI	% Worker Chronic HI
1	BS2F	Pouring, Cooling, Shakeout: S2, Fugitive B	0.38	24.25%
2	F1	Cupola (Coke): S1 Fugitive	0.30	19.14%
3	AS2F	Pouring, Cooling, Shakeout: S2, Fugitive A	0.24	15.44%
4	CS2F	Pouring, Cooling, Shakeout: S2, Fugitive C	0.11	7.14%
5	B4S2	Pouring, Cooling, Shakeout: S2, Baghouse 4	0.10	6.11%
6	S5354	Pipe Casting: S53, S54	0.09	5.48%
7	PCV	Pipe Casting Roof Vents	0.07	4.72%
8	F3	Sand Preparation/Cooler: S3, Fugitive	0.07	4.15%
9	S5657	Pipe Casting: S56, S57	0.06	3.83%
10	B5S2	Pouring, Cooling, Shakeout: S2, Baghouse 5	0.03	1.78%
11	S55	Pipe Casting Machine P6: S55	0.02	1.53%
12	F4	Wheelabrator Shot Blast #1: S4, Fugitive	0.02	1.01%
13	F25	Holding Furnace, Electric Channel: S25, Fugitive	0.02	0.96%
14	S1	Cupola (Coke): S1	0.01	0.91%
15	B2S2	Pouring, Cooling, Shakeout: S2, Baghouse 2	0.01	0.88%
16	S49	Casting, Grinding: S49	0.01	0.88%
17	S25	Holding Furnace, Electric Channel: S25	0.01	0.47%
18	S4	Wheelabrator Shot Blast #1: S4	0.01	0.44%
19	S3	Sand Preparation/Cooler: S3	0.00	0.27%
20	S46	Sand Storage Bunker: S46	0.00	0.22%
21	S37	Hot Oil Heater: S37	0.00	0.14%
22	S10	Metal Induction Furnace (Other Parts): S10	0.00	0.10%
23	S9	Metal Induction Furnace (Pipe): S9	0.00	0.05%
24	S7	Metal Induction Furnace (Pipe): S7	0.00	0.05%
25	F64	Metal Induction Furnace (Other Parts): S64, Fugitive	0.00	0.03%
26	S64	Metal Induction Furnace (Other Parts): S64	0.00	0.01%
27	S31	Standby Generator Diesel Engine: S31	0.00	0.00%
28	S32	Flow Jet Pipe Labeler: S32	0.00	0.00%
29	S47	Storage Piles: S47	0.00	0.00%
30	S51	Specialty Finishing Paint Dip Tanks: S51	0.00	0.00%
		Total Chronic HI=	**1.59E+00**	**100.00%**

DRAFT

Table 13: Acute HI Rank by Modeled Source

Rank	Modeled Source Name	Description	Acute HI	% Acute HI
1	BS2F	Pouring, Cooling, Shakeout: S2, Fugitive B	4.02	69.20%
2	B4S2	Pouring, Cooling, Shakeout: S2, Baghouse 4	0.64	10.98%
3	CS2F	Pouring, Cooling, Shakeout: S2, Fugitive C	0.55	9.45%
4	B5S2	Pouring, Cooling, Shakeout: S2, Baghouse 5	0.49	8.42%
5	F3	Sand Preparation/Cooler: S3, Fugitive	0.040	0.69%
6	F1	Cupola (Coke): S1 Fugitive	0.036	0.62%
7	F25	Holding Furnace, Electric Channel: S25, Fugitive	0.0066	0.11%
8	AS2F	Pouring, Cooling, Shakeout: S2, Fugitive A	0.0064	0.11%
9	F64	Metal Induction Furnace (Other Parts): S64, Fugitive	0.0053	0.09%
10	S46	Sand Storage Bunker: S46	0.0046	0.08%
11	S1	Cupola (Coke): S1	0.0030	0.05%
12	S3	Sand Preparation/Cooler: S3	0.0027	0.05%
13	S7	Metal Induction Furnace (Pipe): S7	0.0025	0.04%
14	S9	Metal Induction Furnace (Pipe): S9	0.0016	0.03%
15	S10	Metal Induction Furnace (Other Parts): S10	0.0011	0.02%
16	S64	Metal Induction Furnace (Other Parts): S64	0.00076	0.01%
17	F4	Wheelabrator Shot Blast #1: S4, Fugitive	0.00069	0.01%
18	S25	Holding Furnace, Electric Channel: S25	0.00051	0.01%
19	S4	Wheelabrator Shot Blast #1: S4	0.00046	0.01%
20	B2S2	Pouring, Cooling, Shakeout: S2, Baghouse 2	0.00033	0.01%
21	S49	Casting, Grinding: S49	0.00033	0.01%
22	S37	Hot Oil Heater: S37	0.00022	0.00%
23	S31	Standby Generator Diesel Engine: S31	0.00000	0.00%
24	S32	Flow Jet Pipe Labeler: S32	0.00000	0.00%
25	S47	Storage Piles: S47	0.00000	0.00%
26	S51	Specialty Finishing Paint Dip Tanks: S51	0.00000	0.00%
27	S5354	Pipe Casting: S53, S54	0.00000	0.00%
28	S55	Pipe Casting Machine P6: S55	0.00000	0.00%
29	S5657	Pipe Casting: S56, S57	0.00000	0.00%
30	PCV	Pipe Casting Roof Vents	0.00000	0.00%
		Total Acute HI=	**5.8**	**100.00%**

HARP2 risk contribution run output tables can be found in Appendices C through I.

DRAFT

9. Conclusions

This facility-wide draft HRA results in an estimated maximum cancer risk of **46 in a million**, a maximum chronic hazard index of **1.6**, and a maximum 1-hour acute hazard index of **5.8**. The facility-wide cancer risk, chronic hazard index, and the acute hazard index each exceed the Regulation 11-18-218 Risk Action Levels. As a result, this facility is expected to be subject to Regulation 11-18-301 and comply with a risk reduction plan. However, this is not a final determination. Having considered facility comments and made necessary corrections to the HRA, the Air-District is publishing this draft HRA for public comment. The public will then have 60 days to review and comment on the draft HRA. The Air District will consider and respond to all public comments before making a final decision on this HRA.

The Air District's draft conclusion is that AB&I Foundry will be required to meet the Risk Reduction Plan (RRP) requirements of Regulation 11-18-301. The primary contributors of risk at this facility are emissions of hexavalent chromium, benzene, cadmium, arsenic, and nickel. Therefore, these pollutants and the emissions sources identified in Tables 2, 3, and 4 of this report should be the focus of risk reduction strategies. AB&I has notified the public that it plans to shut-down the sand molding operations (S-2 and associated equipment) and move these operations to a facility in Texas. Removing emissions from S-2 is estimated to reduce facility cancer risk to about 36 in a million. Since this cancer risk will remain above the risk action level of 10 in a million, the Air District expects that an RRP will be required for AB&I Foundry, even if S-2 is shut-down. S-2 is the major contributor to non-cancer health impacts. Removing S-2 may reduce this facility's chronic hazard index and acute hazard index below the non-cancer risk action levels.

To further reduce risk levels, the facility may consider improving emissions inventories by conducting site-specific source testing, implementing physical or operational changes to the existing plant, employing pollution prevention measures, or installing capture and abatement equipment to reduce TAC emissions.

The facility will be required to submit a proposed RRP to the District within 180 days of notification of the Air District's final decision on this HRA. If the facility cannot reduce health risks below 10 in a million cancer risk and below 1.0 hazard indices for acute and chronic non-cancer health impacts, the facility must demonstrate in the RRP that each significant source is meeting best available retrofit control technology for toxics (TBARCT).

DRAFT

10.Appendix A – Air District Updated Emissions Inventory

DRAFT

11-18 Health Risk Analysis
Facility = AB&I Foundry, P#62
Draft HRA
District Approved Emissions Inventory

Source Emissions:

Pollutant	CAS	S1: Cupola (S1)		S1_F: Cupola (F1)		S2_B2 (B2S2)		S2_B4 (B4S2)		S2_B5 (B5S2)		S2F_A (AS2F)		S2F_B (BS2F)		S2F_C (CS2F)	
		(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)
1,1,2,2-Tetrachloroethane	79-34-5	3.89E+00	1.44E-03	1.31E+00	4.85E-04	0.00E+00	0.00E+00	1.12E+00	5.40E-04	6.43E-01	3.90E-04	0.00E+00	0.00E+00	2.29E-02	1.10E-05	1.31E-02	7.96E-06
1,1,2-Trichloroethane (Vinyl trichloride)	79-00-5	2.51E+00	9.30E-04	8.46E-01	3.13E-04	0.00E+00	0.00E+00	8.95E-01	4.30E-04	5.11E-01	3.10E-04	0.00E+00	0.00E+00	1.83E-02	8.78E-06	1.04E-02	6.33E-06
1,1,-Dichloroethane (Ethylidene dichloride)	75-34-3	4.59E-01	1.70E-04	1.55E-01	5.72E-05	0.00E+00	0.00E+00	4.27E-01	2.05E-04	3.71E-01	2.25E-04	0.00E+00	0.00E+00	8.71E-03	4.18E-06	7.57E-03	4.59E-06
1,3-Butadiene	106-99-0	2.57E-01	9.50E-05	8.64E-02	3.20E-05	0.00E+00	0.00E+00	5.18E+01	2.49E-02	5.72E+01	3.47E-02	0.00E+00	0.00E+00	1.06E+00	5.08E-04	1.17E+00	7.08E-04
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	3.04E+00	1.13E-03	1.02E+00	3.79E-04	0.00E+00	0.00E+00	9.88E-01	4.75E-04	5.61E-01	3.40E-04	0.00E+00	0.00E+00	2.02E-02	9.69E-06	1.14E-02	6.94E-06
1,4-Dioxane (1,4-Diethylene dioxide)	123-91-1	1.15E+00	4.25E-04	3.87E-01	1.43E-04	0.00E+00	0.00E+00	5.93E-01	2.85E-04	3.38E-01	2.05E-04	0.00E+00	0.00E+00	1.21E-02	5.82E-06	6.90E-03	4.18E-06
Acetaldehyde	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acrolein	107-02-8	5.24E+00	1.94E-03	1.76E+00	6.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acrylonitrile	107-13-1	5.00E+00	1.85E-03	1.68E+00	6.23E-04	0.00E+00	0.00E+00	1.56E+00	7.52E-04	1.65E+00	1.00E-03	0.00E+00	0.00E+00	3.19E-02	1.53E-05	3.37E-02	2.04E-05
Allyl Chloride	107-05-1	3.65E-01	1.35E-04	1.23E-01	4.55E-05	0.00E+00	0.00E+00	5.10E-01	2.45E-04	2.89E-01	1.75E-04	0.00E+00	0.00E+00	1.04E-02	5.00E-06	5.89E-03	3.57E-06
Ammonia	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Arsenic (and compounds)	7440-38-2	2.20E-02	1.26E-05	9.08E-02	5.20E-05	3.83E-02	1.56E-05	2.38E-01	1.14E-04	5.81E-02	3.55E-05	9.98E-02	4.07E-05	2.40E-01	1.15E-04	5.87E-02	3.59E-05
Benzene	71-43-2	1.58E+01	9.00E-03	5.31E+00	3.03E-03	0.00E+00	0.00E+00	5.97E+02	2.87E-01	7.74E+02	4.69E-01	0.00E+00	0.00E+00	1.22E+01	5.86E-03	1.58E+01	9.58E-03
Benzyl Chloride	100-44-7	2.27E+00	8.40E-04	7.64E-01	2.83E-04	0.00E+00	0.00E+00	8.53E-01	4.10E-04	4.86E-01	2.95E-04	0.00E+00	0.00E+00	1.74E-02	8.37E-06	9.93E-03	6.02E-06
Beryllium (and compounds)	7440-41-7	3.30E-03	1.89E-06	1.36E-02	7.80E-06	6.16E-03	2.51E-06	1.18E-01	5.69E-05	2.90E-02	1.78E-05	1.60E-02	6.54E-06	1.20E-01	5.75E-05	2.94E-02	1.79E-05
Cadmium (and compounds)	7440-43-9	1.30E-02	7.44E-06	5.36E-02	3.07E-05	5.94E-03	2.42E-06	1.65E-01	7.94E-05	1.61E-01	9.82E-05	1.55E-02	6.31E-06	1.67E-01	8.02E-05	1.62E-01	9.93E-05
Carbon Disulfide	75-15-0	1.31E+00	4.85E-04	4.41E-01	1.63E-04	0.00E+00	0.00E+00	9.78E+00	4.70E-03	7.83E+00	4.75E-03	0.00E+00	0.00E+00	2.00E-01	9.59E-05	1.60E-01	9.69E-05
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	3.32E+00	1.23E-03	1.12E+00	4.14E-04	0.00E+00	0.00E+00	1.03E+00	4.95E-04	5.85E-01	3.55E-04	0.00E+00	0.00E+00	2.10E-02	1.01E-05	1.19E-02	7.24E-06
Chlorobenzene	108-90-7	3.81E+00	1.41E-03	1.28E+00	4.75E-04	0.00E+00	0.00E+00	7.59E-01	3.65E-04	4.29E-01	2.60E-04	0.00E+00	0.00E+00	1.55E-02	7.45E-06	8.75E-03	5.31E-06
Chloroform	67-66-3	5.67E-01	2.10E-04	1.91E-01	7.07E-05	0.00E+00	0.00E+00	8.01E-01	3.85E-04	4.53E-01	2.75E-04	0.00E+00	0.00E+00	1.63E-02	7.86E-06	9.25E-03	5.61E-06
Chromium 6+ (hexavalent chromium)	18540-29-9	4.02E-03	2.30E-06	1.66E-02	9.49E-06	1.03E-02	4.20E-06	3.09E-02	1.84E-05	1.27E-02	7.76E-06	2.69E-02	1.09E-05	3.87E-02	1.86E-05	1.28E-02	7.84E-06
Copper (and compounds)	7440-50-8	3.39E-01	1.94E-04	1.40E+00	8.00E-04	3.61E-02	1.47E-05	6.97E-01	3.35E-04	5.96E-01	3.64E-04	9.40E-02	3.83E-05	7.04E-01	3.38E-04	6.02E-01	3.68E-04
Ethyl Benzene	100-41-4	2.68E+00	9.92E-04	9.02E-01	3.34E-04	0.00E+00	0.00E+00	4.17E+01	2.00E-02	5.40E+01	3.28E-02	0.00E+00	0.00E+00	8.51E-01	4.09E-04	1.10E+00	6.69E-04
Ethyl Chloride (Chloroethane)	75-00-3	3.11E-01	1.15E-04	1.05E-01	3.87E-05	0.00E+00	0.00E+00	4.37E-01	2.10E-04	2.47E-01	1.50E-04	0.00E+00	0.00E+00	8.92E-03	4.29E-06	5.05E-03	3.06E-06
Ethylene Dibromide (1,2-Dibromoethane)	106-93-4	4.88E+00	1.81E-03	1.64E+00	6.08E-04	0.00E+00	0.00E+00	1.26E+00	6.05E-04	7.17E-01	4.35E-04	0.00E+00	0.00E+00	2.57E-02	1.23E-05	1.46E-02	8.88E-06
Ethylene Dichloride (1,2-Dichloroethane)	107-06-2	4.73E-01	1.75E-04	1.59E-01	5.89E-05	0.00E+00	0.00E+00	6.66E-01	3.20E-04	3.79E-01	2.30E-04	0.00E+00	0.00E+00	1.36E-02	6.53E-06	7.74E-03	4.69E-06
Ethylene Glycol Butyl Ether (EGBE)	111-76-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Formaldehyde	50-00-0	2.28E+01	1.30E-02	7.67E+00	4.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Isopropyl Alcohol (Isopropanol)	67-63-0	1.12E+00	4.15E-04	3.78E-01	1.40E-04	0.00E+00	0.00E+00	6.80E+00	3.27E-03	1.45E+00	8.78E-04	0.00E+00	0.00E+00	1.39E-01	6.67E-05	2.96E-02	1.79E-05
Lead (and compounds)	7439-92-1	3.44E+00	1.97E-03	1.42E+01	8.13E-03	2.29E-02	9.33E-06	5.18E-01	2.49E-04	5.71E-01	3.49E-04	5.97E-02	2.43E-05	5.24E-01	2.52E-04	5.77E-01	3.53E-04
Manganese (and compounds)	7439-96-5	3.06E+00	1.75E-03	1.26E+01	7.22E-03	1.55E+00	6.33E-04	2.86E+00	1.38E-03	2.33E+00	1.43E-03	4.05E+00	1.65E-03	2.89E+00	1.39E-03	2.36E+00	1.44E-03
Mercury (and compounds)	7439-97-6	1.29E+00	7.40E-04	5.33E+00	3.05E-03	9.42E-02	3.84E-05	3.50E-01	1.68E-04	8.84E-02	5.40E-05	4.96E-03	2.02E-06	3.54E-01	1.70E-04	8.93E-02	5.46E-05
Methanol	67-56-1	1.50E+00	5.55E-04	5.05E-01	1.87E-04	0.00E+00	0.00E+00	6.15E+01	2.96E-02	3.04E+01	1.84E-02	0.00E+00	0.00E+00	1.26E+00	6.04E-04	6.20E-01	3.76E-04
Methyl Bromide (Bromomethane)	74-83-9	3.27E+00	1.21E-03	1.10E+00	4.07E-04	0.00E+00	0.00E+00	6.35E-01	3.05E-04	3.63E-01	2.20E-04	0.00E+00	0.00E+00	1.30E-02	6.22E-06	7.40E-03	4.49E-06
Methyl Chloroform (1,1,1-Trichloroethane)	71-55-6	6.35E-01	2.35E-04	2.14E-01	7.91E-05	0.00E+00	0.00E+00	8.95E-01	4.30E-04	5.11E-01	3.10E-04	0.00E+00	0.00E+00	1.83E-02	8.78E-06	1.04E-02	6.33E-06
Methyl Ethyl Ketone (2-Butanone)	78-93-3	2.36E+00	8.75E-04	7.96E-01	2.95E-04	0.00E+00	0.00E+00	6.53E+01	3.14E-02	3.22E+01	1.95E-02	0.00E+00	0.00E+00	1.33E+00	6.40E-04	6.57E-01	3.98E-04
Methyl tertiary-Butyl Ether (MTBE)	1634-04-4	4.19E-01	1.55E-04	1.41E-01	5.22E-05	0.00E+00	0.00E+00	5.93E-01	2.85E-04	3.38E-01	2.05E-04	0.00E+00	0.00E+00	1.21E-02	5.82E-06	6.90E-03	4.18E-06
Methylene Chloride (Dichloromethane)	75-09-2	1.54E+00	5.70E-04	5.19E-01	1.92E-04	0.00E+00	0.00E+00	1.11E+00	5.35E-04	6.51E-01	3.95E-04	0.00E+00	0.00E+00	2.27E-02	1.09E-05	1.33E-02	8.06E-06
Naphthalene	91-20-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E+01	2.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-01	5.80E-04
n-Hexane	110-54-3	1.17E+01	4.32E-03	3.93E+00	1.45E-03	0.00E+00	0.00E+00	4.21E+01	2.02E-02	7.29E+01	4.42E-02	0.00E+00	0.00E+00	8.59E-01	4.13E-04	1.49E+00	9.02E-04
Nickel (and compounds)	7440-02-0	2.92E-02	1.67E-05	1.20E-01	6.89E-05	7.85E-03	3.20E-06	7.11E+00	3.42E-03	1.24E+00	7.55E-04	2.05E-02	8.34E-06	7.18E+00	3.45E-03	1.25E+00	7.63E-04
Particulate From Diesel-Fueled Engines (DPM)	9901	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PCDD, PCDF (Treated as 2,3,7,8-TCDD)	1746-01-6	1.99E-05	9.30E-09	2.01E-07	9.39E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-Cresol	106-44-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.87E+01	2.82E-02	1.51E+01	9.13E-03	0.00E+00	0.00E+00	1.20E+00	5.76E-04	3.07E-01	1.86E-04
Perchloroethylene (Tetrachloroethylene)	127-18-4	3.81E+00	1.41E-03	1.28E+00	4.75E-04	0.00E+00	0.00E+00	1.11E+00	5.35E-04	6.35E-01	3.85E-04	0.00E+00	0.00E+00	2.27E-02	1.09E-05	1.30E-02	7.86E-06
Phenol	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E+01	1.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.66E-01	3.43E-04
Propylene (Propene)	115-07-1	2.75E+01	1.02E-02	9.26E+00	3.43E-03	0.00E+00	0.00E+00	4.28E+02	2.06E-01	8.16E+02	4.95E-01	0.00E+00	0.00E+00	8.74E+00	4.20E-03	1.66E+01	1.01E-02
Selenium (and compounds)	7782-49-2	7.20E-02	4.12E-05	2.97E-01	1.70E-04	1.31E-01	5.36E-05	2.38E-01	1.14E-04	5.81E-02	3.55E-05	3.43E-01	1.40E-04	2.40E-01	1.15E-04	5.87E-02	3.59E-05
Styrene	100-42-5	1.55E+00	5.75E-04	5.23E-01	1.94E-04	0.00E+00	0.00E+00	9.72E+00	4.67E-03	1.72E+01	1.04E-02	0.00E+00	0.00E+00	1.98E-01	9.53E-05	3.51E-01	2.13E-04
Toluene	108-88-3	2.14E+01	7.91E-03	7.20E+00	2.66E-03	0.00E+00	0.00E+00	4.10E+02	1.97E-01	5.15E+02	3.12E-01	0.00E+00	0.00E+00	8.36E+00	4.02E-03	1.05E+01	6.37E-03
Trichloroethylene	79-01-6	2.45E+00	9.05E-04	8.23E-01	3.05E-04	0.00E+00	0.00E+00	8.84E-01	4.25E-04	5.03E-01	3.05E-04	0.00E+00	0.00E+00	1.80E-02	8.67E-06	1.03E-02	6.22E-06
Vanadium (fume or dust)	7440-62-2	9.29E-03	5.03E-06	3.62E-02	2.07E-05	2.49E-02	1.01E-05	8.32E-04	4.00E-07	6.08E-03	4.59E-07	6.48E-02	2.64E-05	8.41E-04	4.04E-07	7.59E-04	4.64E-07
Vinyl Acetate	108-05-4	7.83E-01	2.90E-04	2.64E-01	9.76E-05	0.00E+00	0.00E+00	1.13E+00	5.45E-04	6.60E-01	4.00E-04	0.00E+00	0.00E+00	2.31E-02	1.11E-05	1.35E-02	8.16E-06
Vinyl Chloride (Chloroethylene)	75-01-4	1.19E+00	4.40E-04	4.00E-01	1.48E-04	0.00E+00	0.00E+00	4.16E-01	2.00E-04	2.39E-01	1.45E-04	0.00E+00	0.00E+00	8.49E-03	4.08E-06	4.88E-03	2.96E-06
Vinylidene Chloride (1,1-Dichloroethylene)	75-35-4	4.59E-01	1.70E-04	1.55E-01	5.72E-05	0.00E+00	0.00E+00	6.55E-01	3.15E-04	3.71E-01	2.25E-04	0.00E+00	0.00E+00	1.34E-02	6.43E-06	7.57E-03	4.59E-06
Xylenes (mixed isomers)	1330-20-7	1.63E+00	6.05E-04	5.50E-01	2.04E-04	0.00E+00	0.00E+00	8.45E+01	4.06E-02	9.42E+01	5.71E-02	0.00E+00	0.00E+00	1.72E+00	8.29E-04	1.92E+00	1.17E-03

Pollutant	CAS	S3 (S3)		S3F (F3)		S4 (S4)		S4F (F4)		S7 (S7)		S9 (S9)		S10 (S10)		S25 (S25)	
		(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)
1,1,2,2-Tetrachloroethane	79-34-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane (Vinyl trichloride)	79-00-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,-Dichloroethane (Ethylidene dichloride)	75-34-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Butadiene	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dioxane (1,4-Diethylene dioxide)	123-91-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acetaldehyde	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-02	2.00E-05	5.47E-02	2.00E-05	8.20E-02	2.00E-05	0.00E+00	0.00E+00
Acrolein	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-02	6.91E-06	1.89E-02	6.91E-06	2.84E-02	6.91E-06	0.00E+00	0.00E+00
Acrylonitrile	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Allyl Chloride	107-05-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ammonia	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Arsenic (and compounds)	7440-38-2	1.35E-02	8.17E-06	5.68E-02	3.43E-05	1.49E-02	9.00E-06	1.05E-02	4.50E-06	3.91E-04	1.43E-07	3.91E-04	1.43E-07	5.86E-04	1.43E-07	1.56E-02	8.48E-06
Benzene	71-43-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-02	1.60E-05	4.38E-02	1.60E-05	6.56E-02	1.60E-05	0.00E+00	0.00E+00
Benzyl Chloride	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium (and compounds)	7440-41-7	2.19E-03	1.32E-06	9.18E-03	5.54E-06	2.27E-03	1.37E-06	1.59E-03	6.85E-07	2.34E-05	8.57E-09	2.34E-05	8.57E-09	3.52E-05	8.57E-09	2.43E-03	1.32E-06
Cadmium (and compounds)	7440-43-9	2.04E-03	1.23E-06	8.55E-03	5.17E-06	2.20E-03	1.33E-06	1.55E-03	6.65E-07	2.15E-03	7.86E-07	2.15E-03	7.86E-07	3.22E-03	7.86E-07	2.33E-03	1.27E-06
Carbon Disulfide	75-15-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	108-90-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	67-66-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium 6+ (hexavalent chromium)	18540-29-9	8.49E-03	5.13E-06	3.57E-02	2.15E-05	3.81E-03	2.30E-06	2.67E-03	1.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-03	2.00E-06
Copper (and compounds)	7440-50-8	9.79E-02	5.91E-05	4.11E-01	2.48E-04	1.40E-02	8.48E-06	9.86E-03	4.24E-06	1.66E-03	6.07E-07	1.66E-03	6.07E-07	2.49E-03	6.07E-07	5.29E-02	2.88E-05
Ethyl Benzene	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.79E-03	3.21E-06	8.79E-03	3.21E-06	1.32E-02	3.21E-06	0.00E+00	0.00E+00
Ethyl Chloride (Chloroethane)	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dibromide (1,2-Dibromoethane)	106-93-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dichloride (1,2-Dichloroethane)	107-06-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Glycol Butyl Ether (EGBE)	111-76-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Formaldehyde	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.89E-01	1.06E-04	2.89E-01	1.06E-04	4.34E-01	1.06E-04	0.00E+00	0.00E+00
Isopropyl Alcohol (Isopropanol)	67-63-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead (and compounds)	7439-92-1	1.32E-02	7.96E-06	5.54E-02	3.34E-05	3.89E-02	2.35E-05	2.73E-02	1.18E-05	9.77E-04	3.57E-07	9.77E-04	3.57E-07	1.47E-03	3.57E-07	5.46E-01	2.97E-04
Manganese (and compounds)	7439-96-5	7.02E-02	4.24E-05	2.95E-01	1.78E-04	5.38E-01	3.25E-04	3.78E-01	1.63E-04	7.42E-04	2.71E-07	7.42E-04	2.71E-07	1.11E-03	2.71E-07	3.90E-01	2.12E-04
Mercury (and compounds)	7439-97-6	2.42E-02	1.46E-05	1.02E-01	6.13E-05	2.05E-02	1.24E-05	1.44E-02	6.20E-06	5.08E-04	1.86E-07	5.08E-04	1.86E-07	7.62E-04	1.86E-07	2.37E-02	1.29E-05
Methanol	67-56-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Bromide (Bromomethane)	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Chloroform (1,1,1-Trichloroethane)	71-55-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl tertiary-Butyl Ether (MTBE)	1634-04-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methylene Chloride (Dichloromethane)	75-09-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	91-20-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.38E-03	1.60E-06	4.38E-03	1.60E-06	6.56E-03	1.60E-06	0.00E+00	0.00E+00
n-Hexane	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.03E+00	2.57E-03	7.03E+00	2.57E-03	1.05E+01	2.57E-03	0.00E+00	0.00E+00
Nickel (and compounds)	7440-02-0	3.58E-02	2.16E-05	1.50E-01	9.07E-05	4.57E-03	2.76E-06	3.21E-03	1.38E-06	4.10E-03	1.50E-06	4.10E-03	1.50E-06	6.15E-03	1.50E-06	1.21E-02	6.57E-06
Particulate From Diesel-Fueled Engines (DPM)	9901	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PCDD, PCDF (Treated as 2,3,7,8-TCDD)	1746-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-Cresol	106-44-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Perchloroethylene (Tetrachloroethylene)	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phenol	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene (Propene)	115-07-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.18E-01	3.36E-04	9.18E-01	3.36E-04	1.38E+00	3.36E-04	0.00E+00	0.00E+00
Selenium (and compounds)	7782-49-2	4.69E-02	2.83E-05	1.97E-01	1.19E-04	4.70E-02	2.84E-05	3.30E-02	1.42E-05	4.69E-05	1.71E-08	4.69E-05	1.71E-08	7.03E-05	1.71E-08	5.26E-02	2.86E-05
Styrene	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-01	4.21E-05	1.15E-01	4.21E-05	1.73E-01	4.21E-05	0.00E+00	0.00E+00
Trichloroethylene	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium (fume or dust)	7440-62-2	4.37E-03	2.64E-06	1.84E-02	1.11E-05	5.22E-03	3.15E-06	3.66E-03	1.58E-06	4.49E-03	1.64E-06	4.49E-03	1.64E-06	6.74E-03	1.64E-06	1.69E-02	9.28E-06
Vinyl Acetate	108-05-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride (Chloroethylene)	75-01-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinylidene Chloride (1,1-Dichloroethylene)	75-35-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xylenes (mixed isomers)	1330-20-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-02	2.04E-05	5.59E-02	2.04E-05	8.38E-02	2.04E-05	0.00E+00	0.00E+00

Pollutant	CAS	S25F (F25)		S31 (S31)		S32 (S32)		S37 (S37)		S46 (S46)		S47 (S47)		S49 (B2S2)		S49F (F49)	
		(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)
1,1,2,2-Tetrachloroethane	79-34-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,2-Trichloroethane (Vinyl trichloride)	79-00-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,1,-Dichloroethane (Ethylidene dichloride)	75-34-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3-Butadiene	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,4-Dioxane (1,4-Diethylene dioxide)	123-91-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acetaldehyde	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-01	1.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acrolein	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-02	6.78E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Acrylonitrile	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Allyl Chloride	107-05-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ammonia	7664-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Arsenic (and compounds)	7440-38-2	8.20E-03	4.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-03	2.80E-07	6.90E-03	3.42E-06	0.00E+00	0.00E+00	3.83E-02	1.56E-05	9.98E-02	4.07E-05
Benzene	71-43-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-01	1.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Benzyl Chloride	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beryllium (and compounds)	7440-41-7	1.28E-03	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.16E-03	2.51E-06	1.60E-02	6.54E-06
Cadmium (and compounds)	7440-43-9	1.23E-03	6.68E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-02	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-03	2.42E-06	1.55E-02	6.31E-06
Carbon Disulfide	75-15-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chlorobenzene	108-90-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chloroform	67-66-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Chromium 6+ (hexavalent chromium)	18540-29-9	1.93E-03	1.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	4.20E-06	2.69E-02	1.09E-05
Copper (and compounds)	7440-50-8	2.79E-02	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-02	1.19E-06	5.04E-02	2.50E-05	0.00E+00	0.00E+00	3.61E-02	1.47E-05	9.40E-02	3.83E-05
Ethyl Benzene	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-02	3.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethyl Chloride (Chloroethane)	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dibromide (1,2-Dibromoethane)	106-93-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Dichloride (1,2-Dichloroethane)	107-06-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ethylene Glycol Butyl Ether (EGBE)	111-76-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Formaldehyde	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-01	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Isopropyl Alcohol (Isopropanol)	67-63-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E+02	1.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead (and compounds)	7439-92-1	2.87E-01	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.13E-03	7.00E-07	2.92E-02	1.45E-05	0.00E+00	0.00E+00	2.29E-02	9.33E-06	5.97E-02	2.43E-05
Manganese (and compounds)	7439-96-5	2.05E-01	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-03	5.32E-07	8.23E-01	4.08E-04	0.00E+00	0.00E+00	1.55E+00	6.33E-04	4.05E+00	1.65E-03
Mercury (and compounds)	7439-97-6	1.25E-02	6.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-03	3.64E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	3.84E-05	2.46E-01	1.00E-04
Methanol	67-56-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Bromide (Bromomethane)	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Chloroform (1,1,1-Trichloroethane)	71-55-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E+02	1.39E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl tertiary-Butyl Ether (MTBE)	1634-04-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methylene Chloride (Dichloromethane)	75-09-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Naphthalene	91-20-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-02	1.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
n-Hexane	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E+01	2.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nickel (and compounds)	7440-02-0	6.35E-03	3.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-02	2.94E-06	2.10E-02	1.04E-05	0.00E+00	0.00E+00	7.85E-03	3.20E-06	2.05E-02	8.34E-06
Particulate From Diesel-Fueled Engines (DPM)	9901	0.00E+00	0.00E+00	6.86E+00	5.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PCDD, PCDF (Treated as 2,3,7,8-TCDD)	1746-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
P-Cresol	106-44-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Perchloroethylene (Tetrachloroethylene)	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Phenol	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Propylene (Propene)	115-07-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Selenium (and compounds)	7782-49-2	2.77E-02	1.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	3.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-01	5.36E-05	3.43E-01	1.40E-04
Styrene	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Toluene	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.62E-01	4.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Trichloroethylene	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vanadium (fume or dust)	7440-62-2	8.87E-03	4.88E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-02	3.22E-06	1.49E-02	7.37E-06	0.00E+00	0.00E+00	2.49E-02	1.01E-05	6.48E-02	2.64E-05
Vinyl Acetate	108-05-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinyl Chloride (Chloroethylene)	75-01-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Vinylidene Chloride (1,1-Dichloroethylene)	75-35-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xylenes (mixed isomers)	1330-20-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-01	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

				Pipe Casting Emissions Split 50/50 Between Fugitive and Pipe Casting Vents (Source Group PCV)													
Pollutant	CAS	S51 (S51)		S53_54/2 (S5354)		S55/2 (S55)		S56_57/2 (S5657)		Source Group PCV (PCV)		S64 (B5S2)		S64F (F64)		Facility Total	
		(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	(lb/hr)
1,1,2,2-Tetrachloroethane	79-34-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E+00	2.87E-03
1,1,2-Trichloroethane (Vinyl trichloride)	79-00-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E+00	2.00E-03
1,1,-Dichloroethane (Ethylidene dichloride)	75-34-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E+00	6.66E-04
1,3-Butadiene	106-99-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E+02	6.09E-02
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.64E+00	2.34E-03
1,4-Dioxane (1,4-Diethylene dioxide)	123-91-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E+00	1.07E-03
Acetaldehyde	75-07-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-01	7.96E-05
Acrolein	107-02-8	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.13E+00	2.62E-03
Acrylonitrile	107-13-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E+00	4.26E-03
Allyl Chloride	107-05-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+00	6.09E-04
Ammonia	7664-41-7	5.54E+00	2.77E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E+00	2.77E-03
Arsenic (and compounds)	7440-38-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.75E-04	8.48E-06	2.50E-04	4.46E-06	1.11E+00	5.64E-04
Benzene	71-43-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E+03	7.84E-01
Benzyl Chloride	100-44-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E+00	1.84E-03
Beryllium (and compounds)	7440-41-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-05	1.32E-06	3.89E-05	6.95E-07	3.77E-01	1.91E-04
Cadmium (and compounds)	7440-43-9	0.00E+00	0.00E+00	4.32E-01	2.67E-04	1.21E-01	1.42E-04	3.07E-01	1.60E-04	8.60E-01	5.69E-04	7.11E-05	1.27E-06	3.74E-05	6.68E-07	2.52E+00	1.57E-03
Carbon Disulfide	75-15-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E+01	1.03E-02
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.09E+00	2.51E-03
Chlorobenzene	108-90-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.30E+00	2.52E-03
Chloroform	67-66-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E+00	9.54E-04
Chromium 6+ (hexavalent chromium)	18540-29-9	0.00E+00	0.00E+00	2.93E-01	1.81E-04	8.23E-02	9.65E-05	2.08E-01	1.08E-04	5.83E-01	3.86E-04	1.12E-04	2.00E-06	5.90E-05	1.05E-06	1.41E+00	9.03E-04
Copper (and compounds)	7440-50-8	0.00E+00	0.00E+00	3.95E+00	2.44E-03	1.11E+00	1.30E-03	2.80E+00	1.46E-03	7.86E+00	5.20E-03	1.61E-03	2.88E-05	8.49E-04	1.52E-05	2.10E+01	1.33E-02
Ethyl Benzene	100-41-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E+02	5.52E-02
Ethyl Chloride (Chloroethane)	75-00-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E+00	5.21E-04
Ethylene Dibromide (1,2-Dibromoethane)	106-93-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E+00	3.47E-03
Ethylene Dichloride (1,2-Dichloroethane)	107-06-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E+00	7.95E-04
Ethylene Glycol Butyl Ether (EGBE)	111-76-2	9.46E+01	4.73E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E+01	4.73E-02
Formaldehyde	50-00-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E+01	1.78E-02
Isopropyl Alcohol (Isopropanol)	67-63-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E+02	1.40E-01
Lead (and compounds)	7439-92-1	0.00E+00	0.00E+00	4.92E+00	3.05E-03	1.38E+00	1.62E-03	3.50E+00	1.82E-03	9.80E+00	6.49E-03	1.66E-02	2.97E-04	8.76E-03	1.56E-04	4.06E+01	2.53E-02
Manganese (and compounds)	7439-96-5	0.00E+00	0.00E+00	1.77E+01	1.09E-02	4.96E+00	5.82E-03	1.25E+01	6.53E-03	3.52E+01	2.33E-02	1.19E-02	2.12E-04	6.25E-03	1.12E-04	1.10E+02	6.75E-02
Mercury (and compounds)	7439-97-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-04	1.29E-05	3.80E-04	6.79E-06	8.15E+00	4.55E-03
Methanol	67-56-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.58E+01	4.97E-02
Methyl Bromide (Bromomethane)	74-83-9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E+00	2.15E-03
Methyl Chloroform (1,1,1-Trichloroethane)	71-55-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E+00	1.07E-03
Methyl Ethyl Ketone (2-Butanone)	78-93-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E+02	1.92E-01
Methyl tertiary-Butyl Ether (MTBE)	1634-04-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E+00	7.07E-04
Methylene Chloride (Dichloromethane)	75-09-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E+00	1.71E-03
Naphthalene	91-20-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.78E+01	2.90E-02
n-Hexane	110-54-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E+02	8.17E-02
Nickel (and compounds)	7440-02-0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	6.57E-06	1.94E-04	3.46E-06	1.73E+01	8.65E-03
Particulate From Diesel-Fueled Engines (DPM)	9901	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.86E+00	5.28E-01
PCDD, PCDF (Treated as 2,3,7,8-TCDD)	1746-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-05	9.39E-09
P-Cresol	106-44-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E+01	3.81E-02
Perchloroethylene (Tetrachloroethylene)	127-18-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E+00	2.82E-03
Phenol	108-95-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E+01	1.72E-02
Propylene (Propene)	115-07-1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+03	7.30E-01
Selenium (and compounds)	7782-49-2	0.00E+00	0.00E+00	4.26E-02	2.63E-05	1.20E-02	1.40E-05	3.03E-02	1.57E-05	8.48E-02	5.61E-05	1.60E-03	2.86E-05	8.43E-04	1.51E-05	2.49E+00	1.29E-03
Styrene	100-42-5	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E+01	1.62E-02
Toluene	108-88-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E+02	5.30E-01
Trichloroethylene	79-01-6	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E+00	1.95E-03
Vanadium (fume or dust)	7440-62-2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.14E-04	9.28E-06	2.71E-04	4.88E-06	3.50E-01	1.63E-04
Vinyl Acetate	108-05-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E+00	1.35E-03
Vinyl Chloride (Chloroethylene)	75-01-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E+00	9.40E-04
Vinylidene Chloride (1,1-Dichloroethylene)	75-35-4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+00	7.78E-04
Xylenes (mixed isomers)	1330-20-7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E+02	1.01E-01

11. Appendix B – HARP2 Output Logs

HARP 2 Residential Cancer Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 11:35:26 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS
Receptor Type: Resident
Scenario: Cancer
Calculation Method: Derived
**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0
**********************************
PATHWAYS ENABLED
NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False
**********************************
INHALATION
Daily breathing rate: RMP

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: ON
**********************************
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm
**********************************
TIER 2 SETTINGS
Tier2 not used.
**********************************
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\ResCaCancerRisk.csv
Cancer risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\ResCaCancerRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Residential Chronic HI Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 11:49:18 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: Derived

**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
**Exposure duration are only adjusted for cancer assessments**

**********************************
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********************************
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

**********************************
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm

**********************************
TIER 2 SETTINGS
Tier2 not used.

**********************************

Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\ResChNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\ResChNCChronicRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Worker Cancer Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 4:41:50 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS
Receptor Type: Worker
Scenario: Cancer
Calculation Method: Derived
**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25
**********************************
PATHWAYS ENABLED
NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.
Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False
**********************************
INHALATION
Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**
NOTE: The worker adjustment factors below are only used for cancer assessments.  However, the GLC adjustment
factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 3.05
Exposure frequency: 250

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF
**********************************
SOIL & DERMAL PATHWAY SETTINGS
Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm
**********************************
TIER 2 SETTINGS
Tier2 not used.
**********************************
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\WkrCaCancerRisk.csv
Cancer risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\WkrCaCancerRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Worker Chronic HI Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 4:52:19 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: NCChronic
Calculation Method: Derived

**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
**Exposure duration are only adjusted for cancer assessments**

**********************************
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********************************
INHALATION

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

**********************************
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm

**********************************
TIER 2 SETTINGS
Tier2 not used.

**********************************

Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\WkrChNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\WkrChNCChronicRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Student Cancer Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 5:04:12 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS
Receptor Type: Resident
Scenario: Cancer
Calculation Method: HighEnd
**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
Start Age: 2
Total Exposure Duration: 9
Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 9
16<30 Years Bin: 0
16 to 70 Years Bin: 0
**********************************
PATHWAYS ENABLED
NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.
Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False
**********************************
INHALATION
Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**
NOTE: The worker adjustment factors below are only used for cancer assessments.  However, the GLC adjustment
factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 3.05
Exposure frequency: 250

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF
**********************************
SOIL & DERMAL PATHWAY SETTINGS
Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm
**********************************
TIER 2 SETTINGS
Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\StuCaCancerRisk.csv
Cancer risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\StuCaCancerRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Student Chronic HI Output Log

```
ARP2 - HRACalc (dated 19044) 3/16/2021 5:05:41 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCChronic
Calculation Method: HighEnd

**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
**Exposure duration are only adjusted for cancer assessments**

**********************************
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********************************
INHALATION

Daily breathing rate: Moderate8HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

**********************************
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.05
Soil mixing depth (m): 0.01
Dermal climate: Warm

**********************************
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI
Foundry\3_16_21\hra\StuChNCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\StuChNCChronicRiskSumByRec.csv
HRA ran successfully
```

DRAFT

HARP 2 Acute HI Output Log

```
HARP2 - HRACalc (dated 19044) 3/16/2021 11:51:07 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
**********************************
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: NCAcute
Calculation Method: Derived

**********************************
EXPOSURE DURATION PARAMETERS FOR CANCER
**Exposure duration are only adjusted for cancer assessments**

**********************************
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for
cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********************************
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**
Worker adjustment factors enabled: NO

**Fraction at time at home**
NOTE: Exposure duration (i.e., start age, end age, ED, & FAH) are only adjusted for cancer assessments.

**********************************
TIER 2 SETTINGS
Tier2 not used.

**********************************

Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\PMINCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Plant 62 ABI Foundry\3_16_21\hra\PMINCAcuteRiskSumByRec.csv
HRA ran successfully
```

DRAFT

12. Appendix C – HARP2 Output: Residential Cancer Risk – Significant Sources

DRAFT

Residential Cancer Risk (Facility)

*HARP - HRACalc v19044 3/16/2021 11:35:26 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\ResCaHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0.0001008	79345	TetraClEthane	1.36E-08	30YrCancer	0.06%	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.99E-05	79005	1,1,2TriClEthan	2.69E-09	30YrCancer	0.01%	2.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.25E-05	75343	1,1-DiClEthane	8.68E-11	30YrCancer	0.00%	8.68E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0019698	106990	1,3-Butadiene	8.00E-07	30YrCancer	3.56%	8.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.18E-05	106467	p-DiClBenzene	2.21E-09	30YrCancer	0.01%	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.71E-05	123911	1,4-Dioxane	6.78E-10	30YrCancer	0.00%	6.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.86E-06	75070	Acetaldehyde	6.67E-11	30YrCancer	0.00%	6.67E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.65E-05	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001467	107131	Acrylonitrile	9.93E-08	30YrCancer	0.44%	9.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.08E-05	107051	AllylChlor	2.96E-10	30YrCancer	0.00%	2.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002829	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.61E-05	7440382	Arsenic	3.16E-06	30YrCancer	14.06%	2.12E-07	2.81E-06	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0250302	71432	Benzene	1.69E-06	30YrCancer	7.53%	1.69E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.44E-05	100447	Benzyl Chloride	7.40E-09	30YrCancer	0.03%	7.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.15E-06	7440417	Beryllium	5.20E-08	30YrCancer	0.23%	5.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.58E-05	7440439	Cadmium	6.67E-07	30YrCancer	2.97%	6.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.00034	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.80E-05	56235	CCl4	8.93E-09	30YrCancer	0.04%	8.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.90E-05	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.26E-05	67663	Chloroform	4.19E-10	30YrCancer	0.00%	4.19E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.69E-05	18540299	Cr(VI)	1.41E-05	30YrCancer	62.61%	1.27E-05	1.33E-06	2.16E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005506	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0017761	100414	Ethyl Benzene	1.05E-08	30YrCancer	0.05%	1.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.78E-05	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001221	106934	EDB	2.07E-08	30YrCancer	0.09%	2.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.71E-05	107062	EDC	1.32E-09	30YrCancer	0.01%	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0048338	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0004568	50000	Formaldehyde	6.49E-09	30YrCancer	0.03%	6.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0095207	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0010382	7439921	Lead	6.88E-07	30YrCancer	3.06%	2.95E-08	6.35E-07	1.55E-08	7.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.002781	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001942	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0016744	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.60E-05	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.65E-05	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0113794	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.41E-05	1634044	Me t-ButylEther	2.94E-11	30YrCancer	0.00%	2.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.90E-05	75092	Methylene Chlo	1.40E-10	30YrCancer	0.00%	1.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0008568	91203	Naphthalene	6.96E-08	30YrCancer	0.31%	6.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0035531	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0004309	7440020	Nickel	2.65E-07	30YrCancer	1.18%	2.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001272	9901	DieselExhPM	9.47E-08	30YrCancer	0.42%	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.68E-10	1746016	2,3,7,8-TCDD	7.34E-07	30YrCancer	3.26%	1.04E-08	3.40E-07	1.92E-08	3.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0013166	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.90E-05	127184	Perc	1.41E-09	30YrCancer	0.01%	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005068	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0231549	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.64E-05	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005143	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0170783	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.83E-05	79016	TCE	3.24E-10	30YrCancer	0.00%	3.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.35E-06	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.61E-05	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.29E-05	75014	Vinyl Chloride	6.01E-09	30YrCancer	0.03%	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.66E-05	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0032598	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								2.25E-05		100.00%												

Residential Cancer Risk Rank (Significant Sources)

*HARP - HRACalc v19044 3/17/2021 9:00:48 AM - Cancer Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.ResCaCntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_R	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
PCV	903	ALL		571701	4178372	4.75E-06	30YrCancerRM	21.13%	4.20E-06	5.39E-07	9.73E-09	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5354	903	ALL		571701	4178372	3.92E-06	30YrCancerRM	17.43%	3.47E-06	4.45E-07	8.03E-09	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5657	903	ALL		571701	4178372	2.86E-06	30YrCancerRM	12.70%	2.52E-06	3.24E-07	5.85E-09	8.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B4S2	903	ALL		571701	4178372	1.90E-06	30YrCancerRM	8.45%	1.42E-06	4.63E-07	2.18E-08	6.39E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BS2F	903	ALL		571701	4178372	1.70E-06	30YrCancerRM	7.54%	7.59E-07	8.95E-07	4.19E-08	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B5S2	903	ALL		571701	4178372	1.69E-06	30YrCancerRM	7.51%	1.56E-06	1.24E-07	5.65E-09	7.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S55	903	ALL		571701	4178372	1.11E-06	30YrCancerRM	4.95%	9.85E-07	1.26E-07	2.28E-09	3.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F1	903	ALL		571701	4178372	8.81E-07	30YrCancerRM	3.92%	2.87E-07	5.57E-07	2.06E-08	1.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1	903	ALL		571701	4178372	8.23E-07	30YrCancerRM	3.66%	8.49E-08	3.66E-07	2.00E-08	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AS2F	903	ALL		571701	4178372	7.92E-07	30YrCancerRM	3.52%	3.61E-07	4.12E-07	1.89E-08	1.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F3	903	ALL		571701	4178372	6.98E-07	30YrCancerRM	3.10%	4.37E-07	2.50E-07	1.08E-08	1.34E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS2F	903	ALL		571701	4178372	5.69E-07	30YrCancerRM	2.53%	3.13E-07	2.45E-07	1.11E-08	1.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B2S2	903	ALL		571701	4178372	1.50E-07	30YrCancerRM	0.67%	6.84E-08	7.79E-08	3.58E-09	2.85E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S49	903	ALL		571701	4178372	1.50E-07	30YrCancerRM	0.67%	6.84E-08	7.79E-08	3.58E-09	2.85E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S31	903	ALL		571701	4178372	9.47E-08	30YrCancerRM	0.42%	9.47E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S3	903	ALL		571701	4178372	9.10E-08	30YrCancerRM	0.40%	5.69E-08	3.26E-08	1.40E-09	1.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F4	903	ALL		571701	4178372	7.89E-08	30YrCancerRM	0.35%	3.50E-08	4.20E-08	1.93E-09	6.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F25	903	ALL		571701	4178372	7.25E-08	30YrCancerRM	0.32%	2.85E-08	4.21E-08	1.81E-09	7.71E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4	903	ALL		571701	4178372	6.74E-08	30YrCancerRM	0.30%	2.99E-08	3.59E-08	1.65E-09	5.69E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S25	903	ALL		571701	4178372	5.79E-08	30YrCancerRM	0.26%	2.28E-08	3.36E-08	1.44E-09	6.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S46	903	ALL		571701	4178372	1.83E-08	30YrCancerRM	0.08%	1.47E-09	1.61E-08	7.73E-10	4.43E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S37	903	ALL		571701	4178372	9.59E-09	30YrCancerRM	0.04%	3.97E-09	5.36E-09	2.59E-10	8.84E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S10	903	ALL		571701	4178372	4.22E-09	30YrCancerRM	0.02%	1.86E-09	2.25E-09	1.09E-10	3.71E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S9	903	ALL		571701	4178372	2.65E-09	30YrCancerRM	0.01%	1.17E-09	1.41E-09	6.83E-11	2.33E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S7	903	ALL		571701	4178372	2.57E-09	30YrCancerRM	0.01%	1.14E-09	1.37E-09	6.62E-11	2.25E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S64	903	ALL		571701	4178372	1.98E-09	30YrCancerRM	0.01%	7.80E-10	1.15E-09	4.94E-11	2.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F64	903	ALL		571701	4178372	1.85E-09	30YrCancerRM	0.01%	7.28E-10	1.07E-09	4.61E-11	1.97E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S32	903	ALL		571701	4178372	0.00E+00	30YrCancerRM	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S47	903	ALL		571701	4178372	0.00E+00	30YrCancerRM	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S51	903	ALL		571701	4178372	0.00E+00	30YrCancerRM	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
						2.25E-05		100.00%												

DRAFT

Residential Cancer Risk (PCV - New Pipe Casting Roof Ventilation: 50% of Pipe Casting Fugitive Emissions)

*HARP - HRACalc v19044 3/17/2021 9:09:59 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\PCV.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440382	Arsenic	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440417	Beryllium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.72E-05	7440439	Cadmium	1.75E-07	30YrCancer	3.67%	1.75E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.17E-05	18540299	Cr(VI)	4.45E-06	30YrCancer	93.59%	4.02E-06	4.20E-07	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001571	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000196	7439921	Lead	1.30E-07	30YrCancer	2.73%	5.57E-09	1.20E-07	2.92E-09	1.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0007028	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440020	Nickel	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.70E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								4.75E-06		100.00%												

Residential Cancer Risk (S5354 - Pipe Casting S53, S54: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 9:08:58 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5354.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440382	Arsenic	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440417	Beryllium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.42E-05	7440439	Cadmium	1.44E-07	30YrCancer	3.67%	1.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.61E-06	18540299	Cr(VI)	3.67E-06	30YrCancer	93.59%	3.32E-06	3.46E-07	5.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001296	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001617	7439921	Lead	1.07E-07	30YrCancer	2.73%	4.59E-09	9.89E-08	2.41E-09	1.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005799	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440020	Nickel	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.40E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								3.92E-06		100.00%												

Residential Cancer Risk (S5657 - Pipe Casting S56, S57: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 9:09:39 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5657.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440382	Arsenic	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440417	Beryllium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.03E-05	7440439	Cadmium	1.05E-07	30YrCancer	3.67%	1.05E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.00E-06	18540299	Cr(VI)	2.67E-06	30YrCancer	93.59%	2.42E-06	2.52E-07	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.44E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001178	7439921	Lead	7.80E-08	30YrCancer	2.73%	3.35E-09	7.21E-08	1.75E-09	8.49E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0004224	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440020	Nickel	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.02E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								2.86E-06		100.00%												

Residential Cancer Risk (B4S2 - Pouring, Cooling, Shakeout S2: Baghouse 4)

*HARP - HRACalc v19044 3/17/2021 9:01:49 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B4S2.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	1.92E-05	79345	TetraClEthane	2.60E-09	30YrCancer	0.14%	2.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.53E-05	79005	1,1,2TriClEthan	5.90E-10	30YrCancer	0.03%	5.90E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.29E-06	75343	1,1-DiClEthane	2.81E-11	30YrCancer	0.00%	2.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0008858	106990	1,3-Butadiene	3.60E-07	30YrCancer	18.91%	3.60E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.69E-05	106467	p-DiClBenzene	4.57E-10	30YrCancer	0.02%	4.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.01E-05	123911	1,4-Dioxane	1.85E-10	30YrCancer	0.01%	1.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.67E-05	107131	Acrylonitrile	1.81E-08	30YrCancer	0.95%	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.71E-06	107051	AllylChlor	1.24E-10	30YrCancer	0.01%	1.24E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.06E-06	7440382	Arsenic	4.93E-07	30YrCancer	25.92%	3.30E-08	4.39E-07	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0102081	71432	Benzene	6.91E-07	30YrCancer	36.33%	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.46E-05	100447	Benzyl Chloride	1.68E-09	30YrCancer	0.09%	1.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.02E-06	7440417	Beryllium	1.15E-08	30YrCancer	0.61%	1.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.82E-06	7440439	Cadmium	2.86E-08	30YrCancer	1.51%	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001671	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.76E-05	56235	CCl4	1.79E-09	30YrCancer	0.09%	1.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.30E-05	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.37E-05	67663	Chloroform	1.76E-10	30YrCancer	0.01%	1.76E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.28E-07	18540299	Cr(VI)	2.01E-07	30YrCancer	10.60%	1.82E-07	1.90E-08	3.08E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.19E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0007122	100414	Ethyl Benzene	4.19E-09	30YrCancer	0.22%	4.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.47E-06	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.15E-05	106934	EDB	3.64E-09	30YrCancer	0.19%	3.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.14E-05	107062	EDC	5.54E-10	30YrCancer	0.03%	5.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001163	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.86E-06	7439921	Lead	5.87E-09	30YrCancer	0.31%	2.52E-10	5.42E-09	1.32E-10	6.39E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.89E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.98E-06	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0010518	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.08E-05	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.53E-05	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0011158	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.01E-05	1634044	Me t-ButylEther	1.23E-11	30YrCancer	0.00%	1.23E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.90E-05	75092	Methylene Chlo	4.51E-11	30YrCancer	0.00%	4.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000719	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001215	7440020	Nickel	7.48E-08	30YrCancer	3.93%	7.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0010027	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.90E-05	127184	Perc	2.70E-10	30YrCancer	0.01%	2.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0073168	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.06E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001661	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0070025	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.51E-05	79016	TCE	7.16E-11	30YrCancer	0.00%	7.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.42E-08	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.94E-05	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.11E-06	75014	Vinyl Chloride	1.30E-09	30YrCancer	0.07%	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.12E-05	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0014444	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.90E-06		100.00%												

Residential Cancer Risk (BS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area B)

*HARP - HRACalc v19044 3/17/2021 9:02:51 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\BS2F.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	7.42E-07	79345	TetraClEthane	1.00E-10	30YrCancer	0.01%	1.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.91E-07	79005	1,1,2TriClEthan	2.28E-11	30YrCancer	0.00%	2.28E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.82E-07	75343	1,1-DiClEthane	1.09E-12	30YrCancer	0.00%	1.09E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.42E-05	106990	1,3-Butadiene	1.39E-08	30YrCancer	0.82%	1.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.53E-07	106467	p-DiClBenzene	1.77E-11	30YrCancer	0.00%	1.77E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.92E-07	123911	1,4-Dioxane	7.16E-12	30YrCancer	0.00%	7.16E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.03E-06	107131	Acrylonitrile	6.99E-10	30YrCancer	0.04%	6.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.37E-07	107051	AllylChlor	4.79E-12	30YrCancer	0.00%	4.79E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.78E-06	7440382	Arsenic	9.44E-07	30YrCancer	55.65%	6.31E-08	8.40E-07	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0003947	71432	Benzene	2.67E-08	30YrCancer	1.57%	2.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.64E-07	100447	Benzyl Chloride	6.48E-11	30YrCancer	0.00%	6.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.88E-06	7440417	Beryllium	2.20E-08	30YrCancer	1.30%	2.20E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.40E-06	7440439	Cadmium	5.49E-08	30YrCancer	3.23%	5.49E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.46E-06	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.81E-07	56235	CCl4	6.91E-11	30YrCancer	0.00%	6.91E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.02E-07	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.29E-07	67663	Chloroform	6.81E-12	30YrCancer	0.00%	6.81E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.25E-06	18540299	Cr(VI)	4.79E-07	30YrCancer	28.23%	4.33E-07	4.51E-08	7.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.28E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.75E-05	100414	Ethyl Benzene	1.62E-10	30YrCancer	0.01%	1.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.89E-07	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.32E-07	106934	EDB	1.41E-10	30YrCancer	0.01%	1.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.40E-07	107062	EDC	2.14E-11	30YrCancer	0.00%	2.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.50E-06	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.70E-05	7439921	Lead	1.12E-08	30YrCancer	0.66%	4.82E-10	1.04E-08	2.53E-10	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.37E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.14E-05	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.07E-05	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.19E-07	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.91E-07	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.31E-05	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.92E-07	1634044	Me t-ButylEther	4.77E-13	30YrCancer	0.00%	4.77E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.36E-07	75092	Methylene Chlo	1.74E-12	30YrCancer	0.00%	1.74E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.78E-05	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002326	7440020	Nickel	1.43E-07	30YrCancer	8.45%	1.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.88E-05	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.36E-07	127184	Perc	1.05E-11	30YrCancer	0.00%	1.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002829	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.78E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.42E-06	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002708	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.84E-07	79016	TCE	2.77E-12	30YrCancer	0.00%	2.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.72E-08	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.49E-07	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.75E-07	75014	Vinyl Chloride	5.02E-11	30YrCancer	0.00%	5.02E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.33E-07	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.58E-05	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.70E-06		100.00%												

Residential Cancer Risk (B5S2 - Pouring, Cooling, Shakeout S2: Baghouse 5)

*HARP - HRACalc v19044 3/17/2021 9:02:10 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B5S2.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	1.13E-05	79345	TetraClEthane	1.53E-09	30YrCancer	0.09%	1.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.98E-06	79005	1,1,2TriClEthan	3.47E-10	30YrCancer	0.02%	3.47E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.52E-06	75343	1,1-DiClEthane	2.51E-11	30YrCancer	0.00%	2.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0010054	106990	1,3-Butadiene	4.08E-07	30YrCancer	24.17%	4.08E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.85E-06	106467	p-DiClBenzene	2.67E-10	30YrCancer	0.02%	2.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.94E-06	123911	1,4-Dioxane	1.09E-10	30YrCancer	0.01%	1.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.90E-05	107131	Acrylonitrile	1.96E-08	30YrCancer	1.16%	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.07E-06	107051	AllylChlor	7.21E-11	30YrCancer	0.00%	7.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.02E-06	7440382	Arsenic	1.24E-07	30YrCancer	7.34%	8.29E-09	1.10E-07	5.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0135996	71432	Benzene	9.20E-07	30YrCancer	54.48%	9.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.55E-06	100447	Benzyl Chloride	9.83E-10	30YrCancer	0.06%	9.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.10E-07	7440417	Beryllium	2.90E-09	30YrCancer	0.17%	2.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.82E-06	7440439	Cadmium	2.86E-08	30YrCancer	1.70%	2.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001377	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.03E-05	56235	CCl4	1.04E-09	30YrCancer	0.06%	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.54E-06	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.97E-06	67663	Chloroform	1.02E-10	30YrCancer	0.01%	1.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.23E-07	18540299	Cr(VI)	8.51E-08	30YrCancer	5.04%	7.70E-08	8.03E-09	1.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.05E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0009494	100414	Ethyl Benzene	5.59E-09	30YrCancer	0.33%	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.35E-06	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.26E-05	106934	EDB	2.13E-09	30YrCancer	0.13%	2.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.67E-06	107062	EDC	3.25E-10	30YrCancer	0.02%	3.25E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.55E-05	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.00E-05	7439921	Lead	6.65E-09	30YrCancer	0.39%	2.85E-10	6.14E-09	1.50E-10	7.24E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.10E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.55E-06	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005341	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.38E-06	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.98E-06	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005657	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.94E-06	1634044	Me t-ButylEther	7.24E-12	30YrCancer	0.00%	7.24E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.14E-05	75092	Methylene Chlo	2.71E-11	30YrCancer	0.00%	2.71E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0008234	91203	Naphthalene	6.69E-08	30YrCancer	3.96%	6.69E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0012807	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.17E-05	7440020	Nickel	1.34E-08	30YrCancer	0.79%	1.34E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002646	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.12E-05	127184	Perc	1.59E-10	30YrCancer	0.01%	1.59E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0004875	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0143323	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.02E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0003023	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0090456	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.84E-06	79016	TCE	4.19E-11	30YrCancer	0.00%	4.19E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.07E-07	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.16E-05	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.20E-06	75014	Vinyl Chloride	7.68E-10	30YrCancer	0.05%	7.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.52E-06	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0016548	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.69E-06		100.00%												

Residential Cancer Risk (S55 - Pipe Casting S55: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 9:09:19 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S55.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440382	Arsenic	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440417	Beryllium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.03E-06	7440439	Cadmium	4.09E-08	30YrCancer	3.67%	4.09E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.73E-06	18540299	Cr(VI)	1.04E-06	30YrCancer	93.59%	9.43E-07	9.83E-08	1.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.68E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.59E-05	7439921	Lead	3.04E-08	30YrCancer	2.73%	1.31E-09	2.81E-08	6.84E-10	3.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001647	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440020	Nickel	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.97E-07	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.11E-06		100.00%												

Residential Cancer Risk (F1 - Cupola: Fugitive Emissions)

*HARP - HRACalc v19044 3/17/2021 9:01:08 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\F1.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	3.75E-05	79345	TetraClEthane	5.07E-09	30YrCancer	0.58%	5.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.42E-05	79005	1,1,2TriClEthan	9.33E-10	30YrCancer	0.11%	9.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.42E-06	75343	1,1-DiClEthane	1.71E-11	30YrCancer	0.00%	1.71E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.47E-06	106990	1,3-Butadiene	1.00E-09	30YrCancer	0.11%	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.93E-05	106467	p-DiClBenzene	7.92E-10	30YrCancer	0.09%	7.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.11E-05	123911	1,4-Dioxane	2.02E-10	30YrCancer	0.02%	2.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.05E-05	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.81E-05	107131	Acrylonitrile	3.26E-08	30YrCancer	3.70%	3.26E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.51E-06	107051	AllylChlor	4.99E-11	30YrCancer	0.01%	4.99E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.60E-06	7440382	Arsenic	3.15E-07	30YrCancer	35.77%	2.11E-08	2.80E-07	1.37E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001518	71432	Benzene	1.03E-08	30YrCancer	1.17%	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.18E-05	100447	Benzyl Chloride	2.51E-09	30YrCancer	0.29%	2.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.89E-07	7440417	Beryllium	2.21E-09	30YrCancer	0.25%	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.53E-06	7440439	Cadmium	1.56E-08	30YrCancer	1.77%	1.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.26E-05	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.20E-05	56235	CCl4	3.25E-09	30YrCancer	0.37%	3.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.67E-05	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.46E-06	67663	Chloroform	7.02E-11	30YrCancer	0.01%	7.02E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.74E-07	18540299	Cr(VI)	1.81E-07	30YrCancer	20.53%	1.64E-07	1.71E-08	2.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.00E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.58E-05	100414	Ethyl Benzene	1.52E-10	30YrCancer	0.02%	1.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.99E-06	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.69E-05	106934	EDB	7.94E-09	30YrCancer	0.90%	7.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.55E-06	107062	EDC	2.22E-10	30YrCancer	0.03%	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002192	50000	Formaldehyde	3.12E-09	30YrCancer	0.35%	3.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.08E-05	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0004059	7439921	Lead	2.69E-07	30YrCancer	30.53%	1.15E-08	2.48E-07	6.05E-09	2.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0003605	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001525	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.44E-05	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.15E-05	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.11E-06	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.28E-05	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.03E-06	1634044	Me t-ButylEther	4.91E-12	30YrCancer	0.00%	4.91E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.48E-05	75092	Methylene Chlo	3.51E-11	30YrCancer	0.00%	3.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001124	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.44E-06	7440020	Nickel	2.12E-09	30YrCancer	0.24%	2.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.75E-12	1746016	2,3,7,8-TCDD	2.52E-08	30YrCancer	2.86%	3.57E-10	1.16E-08	6.59E-10	1.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.67E-05	127184	Perc	5.21E-10	30YrCancer	0.06%	5.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002648	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.49E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.50E-05	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002057	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.35E-05	79016	TCE	1.11E-10	30YrCancer	0.01%	1.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.04E-06	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.54E-06	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.14E-05	75014	Vinyl Chloride	2.09E-09	30YrCancer	0.24%	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.42E-06	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.57E-05	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								8.81E-07		100.00%												

Residential Cancer Risk (S1 - Cupola: Stack Emissions)

*HARP - HRACalc v19044 3/17/2021 9:00:48 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	3.17E-05	79345	TetraClEthane	4.29E-09	30YrCancer	0.52%	4.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.05E-05	79005	1,1,2TriClEthan	7.89E-10	30YrCancer	0.10%	7.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.74E-06	75343	1,1-DiClEthane	1.44E-11	30YrCancer	0.00%	1.44E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.09E-06	106990	1,3-Butadiene	8.48E-10	30YrCancer	0.10%	8.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.47E-05	106467	p-DiClBenzene	6.70E-10	30YrCancer	0.08%	6.70E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.35E-06	123911	1,4-Dioxane	1.71E-10	30YrCancer	0.02%	1.71E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.27E-05	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.07E-05	107131	Acrylonitrile	2.75E-08	30YrCancer	3.34%	2.75E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.97E-06	107051	AllylChlor	4.22E-11	30YrCancer	0.01%	4.22E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.79E-07	7440382	Arsenic	2.17E-08	30YrCancer	2.64%	1.45E-09	1.94E-08	9.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001284	71432	Benzene	8.69E-09	30YrCancer	1.05%	8.69E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.85E-05	100447	Benzyl Chloride	2.13E-09	30YrCancer	0.26%	2.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.69E-08	7440417	Beryllium	1.53E-10	30YrCancer	0.02%	1.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.06E-07	7440439	Cadmium	1.07E-09	30YrCancer	0.13%	1.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.07E-05	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.71E-05	56235	CCl4	2.75E-09	30YrCancer	0.33%	2.75E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.10E-05	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.62E-06	67663	Chloroform	5.94E-11	30YrCancer	0.01%	5.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.27E-08	18540299	Cr(VI)	1.25E-08	30YrCancer	1.52%	1.13E-08	1.18E-09	1.91E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.76E-06	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.18E-05	100414	Ethyl Benzene	1.28E-10	30YrCancer	0.02%	1.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.53E-06	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.97E-05	106934	EDB	6.72E-09	30YrCancer	0.82%	6.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.85E-06	107062	EDC	1.88E-10	30YrCancer	0.02%	1.88E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001854	50000	Formaldehyde	2.63E-09	30YrCancer	0.32%	2.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.13E-06	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.80E-05	7439921	Lead	1.86E-08	30YrCancer	2.25%	7.96E-10	1.71E-08	4.17E-10	2.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.49E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.05E-05	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.22E-05	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.66E-05	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.17E-06	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.92E-05	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.41E-06	1634044	Me t-ButylEther	4.15E-12	30YrCancer	0.00%	4.15E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.25E-05	75092	Methylene Chlo	2.97E-11	30YrCancer	0.00%	2.97E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.50E-05	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.37E-07	7440020	Nickel	1.46E-10	30YrCancer	0.02%	1.46E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.62E-10	1746016	2,3,7,8-TCDD	7.09E-07	30YrCancer	86.14%	1.01E-08	3.28E-07	1.86E-08	3.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.10E-05	127184	Perc	4.41E-10	30YrCancer	0.05%	4.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0002239	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.86E-07	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.26E-05	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000174	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.99E-05	79016	TCE	9.43E-11	30YrCancer	0.01%	9.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.56E-08	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.38E-06	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.68E-06	75014	Vinyl Chloride	1.77E-09	30YrCancer	0.21%	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.74E-06	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.33E-05	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								8.23E-07		100.00%												

Residential Cancer Risk (AS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area A)

*HARP - HRACalc v19044 3/17/2021 9:02:31 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\AS2F.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.49E-06	7440382	Arsenic	4.23E-07	30YrCancer	53.43%	2.83E-08	3.76E-07	1.83E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.61E-07	7440417	Beryllium	3.19E-09	30YrCancer	0.40%	3.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.41E-07	7440439	Cadmium	5.49E-09	30YrCancer	0.69%	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.39E-07	18540299	Cr(VI)	3.58E-07	30YrCancer	45.24%	3.24E-07	3.38E-08	5.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.28E-06	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.08E-06	7439921	Lead	1.38E-09	30YrCancer	0.17%	5.92E-11	1.28E-09	3.11E-11	1.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0001414	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.73E-07	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.15E-07	7440020	Nickel	4.40E-10	30YrCancer	0.06%	4.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.20E-05	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.26E-06	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								7.92E-07		100.00%												

Residential Cancer Risk (CS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area C)

*HARP - HRACalc v19044 3/17/2021 9:03:12 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\CS2F.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	4.49E-07	79345	TetraClEthane	6.07E-11	30YrCancer	0.01%	6.07E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.57E-07	79005	1,1,2TriClEthan	1.38E-11	30YrCancer	0.00%	1.38E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.59E-07	75343	1,1-DiClEthane	9.98E-13	30YrCancer	0.00%	9.98E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.99E-05	106990	1,3-Butadiene	1.62E-08	30YrCancer	2.85%	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.91E-07	106467	p-DiClBenzene	1.06E-11	30YrCancer	0.00%	1.06E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.36E-07	123911	1,4-Dioxane	4.31E-12	30YrCancer	0.00%	4.31E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.15E-06	107131	Acrylonitrile	7.78E-10	30YrCancer	0.14%	7.78E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.01E-07	107051	AllylChlor	2.86E-12	30YrCancer	0.00%	2.86E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.01E-06	7440382	Arsenic	2.44E-07	30YrCancer	42.81%	1.63E-08	2.17E-07	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005398	71432	Benzene	3.65E-08	30YrCancer	6.42%	3.65E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.39E-07	100447	Benzyl Chloride	3.90E-11	30YrCancer	0.01%	3.90E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.00E-06	7440417	Beryllium	5.70E-09	30YrCancer	1.00%	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.55E-06	7440439	Cadmium	5.63E-08	30YrCancer	9.90%	5.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.46E-06	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.08E-07	56235	CCl4	4.14E-11	30YrCancer	0.01%	4.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.99E-07	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.16E-07	67663	Chloroform	4.07E-12	30YrCancer	0.00%	4.07E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.38E-07	18540299	Cr(VI)	1.67E-07	30YrCancer	29.41%	1.51E-07	1.58E-08	2.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.06E-05	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.77E-05	100414	Ethyl Benzene	2.22E-10	30YrCancer	0.04%	2.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.73E-07	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.00E-07	106934	EDB	8.46E-11	30YrCancer	0.01%	8.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.65E-07	107062	EDC	1.29E-11	30YrCancer	0.00%	1.29E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.01E-06	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.97E-05	7439921	Lead	1.31E-08	30YrCancer	2.30%	5.61E-10	1.21E-08	2.94E-10	1.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.06E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.05E-06	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.12E-05	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.53E-07	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.57E-07	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.25E-05	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.36E-07	1634044	Me t-ButylEther	2.87E-13	30YrCancer	0.00%	2.87E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.54E-07	75092	Methylene Chlo	1.08E-12	30YrCancer	0.00%	1.08E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.27E-05	91203	Naphthalene	2.65E-09	30YrCancer	0.47%	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.08E-05	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.27E-05	7440020	Nickel	2.63E-08	30YrCancer	4.62%	2.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.05E-05	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.43E-07	127184	Perc	6.29E-12	30YrCancer	0.00%	6.29E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.93E-05	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.0005688	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.01E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.20E-05	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000359	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.51E-07	79016	TCE	1.66E-12	30YrCancer	0.00%	1.66E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.60E-08	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.60E-07	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.67E-07	75014	Vinyl Chloride	3.05E-11	30YrCancer	0.01%	3.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.59E-07	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.57E-05	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								5.69E-07		100.00%												

Residential Cancer Risk (B2S2 - Pouring, Cooling, Shakeout S2: Baghouse 2)

*HARP - HRACalc v19044 3/17/2021 9:01:29 AM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B2S2.ResCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
903	ALL		571701	4178372	0	79345	TetraClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79005	1,1,2TriClEthan	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75343	1,1-DiClEthane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106990	1,3-Butadiene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106467	p-DiClBenzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	123911	1,4-Dioxane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75070	Acetaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107028	Acrolein	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107131	Acrylonitrile	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107051	AllylChlor	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	7664417	NH3	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.60E-07	7440382	Arsenic	8.01E-08	30YrCancer	53.43%	5.36E-09	7.12E-08	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71432	Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100447	Benzyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.06E-07	7440417	Beryllium	6.03E-10	30YrCancer	0.40%	6.03E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.02E-07	7440439	Cadmium	1.04E-09	30YrCancer	0.69%	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75150	CS2	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	56235	CCl4	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108907	Chlorobenzn	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67663	Chloroform	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.78E-07	18540299	Cr(VI)	6.78E-08	30YrCancer	45.24%	6.13E-08	6.39E-09	1.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.22E-07	7440508	Copper	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100414	Ethyl Benzene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75003	Ethyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106934	EDB	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	107062	EDC	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	111762	EGBE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	50000	Formaldehyde	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67630	Isopropyl Alcoh	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.95E-07	7439921	Lead	2.61E-10	30YrCancer	0.17%	1.12E-11	2.41E-10	5.88E-12	2.85E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.68E-05	7439965	Manganese	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.62E-06	7439976	Mercury	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	67561	Methanol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	74839	Methyl Bromide	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	71556	1,1,1-TCA	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	78933	MEK	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1634044	Me t-ButylEther	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75092	Methylene Chlo	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	91203	Naphthalene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	110543	Hexane	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.35E-07	7440020	Nickel	8.33E-11	30YrCancer	0.06%	8.33E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	9901	DieselExhPM	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1746016	2,3,7,8-TCDD	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	106445	p-Cresol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	127184	Perc	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108952	Phenol	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	115071	Propylene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.27E-06	7782492	Selenium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	100425	Styrene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108883	Toluene	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	79016	TCE	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.28E-07	7440622	Vanadium	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	108054	Vinyl Acetate	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75014	Vinyl Chloride	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	75354	Vinylid Chlorid	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0	1330207	Xylenes	0.00E+00	30YrCancer	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.50E-07		100.00%												

13. Appendix D – HARP2 Output: Residential Chronic HI – Significant Sources

DRAFT

Residential Chronic HI (Facility)

*HARP - HRACalc v19044 3/16/2021 11:49:18 AM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\ResChHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
903	ALL		571701	4178372	0.000101	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.99E-05	79005	1,1,2TriClE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.25E-05	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.00197	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	9.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.18E-05	106467	p-DiClBenz	NonCancer	0.00E+00	1.02E-07	0.00%	0.00E+00	1.02E-07	1.02E-07	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.71E-05	123911	1,4-Dioxan	NonCancer	1.24E-08	0.00E+00	0.00%	0.00E+00	1.24E-08	1.24E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.86E-06	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.05E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.65E-05	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000147	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.08E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000283	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.61E-05	7440382	Arsenic	NonCancer	1.90E-01	1.90E-01	73.85%	0.00E+00	0.00E+00	0.00E+00	1.90E-01	1.90E-01	1.90E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.02503	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.34E-03	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.44E-05	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.15E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	1.31E-03	0.00E+00	1.10E-04	0.00E+00	1.31E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.58E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.27E-03	0.00E+00	0.00E+00	3.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.00034	75150	CS2	NonCancer	0.00E+00	4.25E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.80E-05	56235	CCl4	NonCancer	0.00E+00	2.20E-06	0.00%	0.00E+00	0.00E+00	2.20E-06	2.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	8.90E-05	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	8.90E-08	8.90E-08	8.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.26E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.09E-07	1.09E-07	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.69E-05	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.34E-05	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000551	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.001776	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	8.88E-07	8.88E-07	8.88E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.88E-07	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.78E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	5.93E-10	5.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000122	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.71E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	6.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.004834	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000457	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.009521	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.36E-06	0.00E+00	1.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.001038	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.002781	7439965	Manganese	NonCancer	0.00E+00	3.09E-02	12.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000194	7439976	Mercury	NonCancer	0.00E+00	3.61E-02	14.01%	0.00E+00	3.61E-02	0.00E+00	3.61E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.001674	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	4.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.60E-05	74839	Methyl Bro	NonCancer	0.00E+00	1.52E-05	0.01%	0.00E+00	0.00E+00	0.00E+00	1.52E-05	1.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.65E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	3.65E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.011379	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.41E-05	1634044	Me t-Butyle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.02E-09	3.02E-09	0.00E+00	0.00E+00	0.00E+00	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.90E-05	75092	Methylene	NonCancer	1.48E-07	1.48E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000857	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.003553	110543	Hexane	NonCancer	0.00E+00	5.08E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000431	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	9.20E-04	3.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-02	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000127	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	1.68E-10	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	2.22E-03	2.22E-03	2.22E-03	0.00E+00	0.00E+00	0.00E+00	2.22E-03	2.22E-03	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.001317	106445	p-Cresol	NonCancer	0.00E+00	2.19E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	9.90E-05	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.83E-06	2.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000507	108952	Phenol	NonCancer	2.53E-06	2.53E-06	0.00%	0.00E+00	2.53E-06	2.53E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.023155	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	5.64E-05	7782492	Selenium	NonCancer	2.73E-04	2.73E-04	0.11%	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.000514	100425	Styrene	NonCancer	0.00E+00	5.72E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.017078	108883	Toluene	NonCancer	0.00E+00	5.69E-05	0.02%	0.00E+00	0.00E+00	0.00E+00	5.69E-05	5.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	6.83E-05	79016	TCE	NonCancer	0.00E+00	1.14E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	7.35E-06	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	4.61E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	3.29E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	2.66E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.80E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
903	ALL		571701	4178372	0.00326	1330207	Xylenes	NonCancer	0.00E+00	4.66E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.66E-06	0.00E+00	4.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									1.90E-01	2.58E-01	100.00%	1.31E-03	4.24E-02	2.61E-03	2.31E-01	2.29E-01	1.90E-01	4.77E-06	0.00E+00	2.22E-03	4.14E-02	0.00E+00	0.00E+00

Residential Chronic HI Rank (No Significant Sources)

*HARP - HRACalc v19044 3/17/2021 1:16:47 PM - Chronic Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.ResChCntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
BS2F	903	ALL		571701	4178372	NonCancer	5.68E-02	6.00E-02	23.28%	5.54E-04	2.64E-03	8.41E-05	5.94E-02	7.42E-02	5.67E-02	8.08E-08	0.00E+00	1.38E-08	1.67E-02	0.00E+00	0.00E+00
F1	903	ALL		571701	4178372	NonCancer	1.90E-02	5.13E-02	19.93%	5.56E-05	2.85E-02	1.24E-04	4.74E-02	1.96E-02	1.89E-02	6.22E-08	0.00E+00	7.60E-05	3.73E-04	0.00E+00	0.00E+00
B4S2	903	ALL		571701	4178372	NonCancer	2.97E-02	3.13E-02	12.17%	2.89E-04	1.38E-03	4.55E-05	3.15E-02	3.88E-02	2.96E-02	2.09E-06	0.00E+00	3.56E-07	1.21E-02	0.00E+00	0.00E+00
AS2F	903	ALL		571701	4178372	NonCancer	2.55E-02	2.71E-02	10.52%	8.01E-05	8.38E-05	6.47E-05	2.55E-02	2.56E-02	2.54E-02	0.00E+00	0.00E+00	0.00E+00	5.22E-05	0.00E+00	0.00E+00
CS2F	903	ALL		571701	4178372	NonCancer	1.47E-02	1.61E-02	6.26%	1.43E-04	1.10E-03	2.19E-05	1.53E-02	1.81E-02	1.46E-02	9.44E-08	0.00E+00	1.88E-08	3.23E-03	0.00E+00	0.00E+00
F3	903	ALL		571701	4178372	NonCancer	1.40E-02	1.47E-02	5.71%	4.40E-05	6.61E-04	3.57E-05	1.46E-02	1.43E-02	1.39E-02	0.00E+00	0.00E+00	0.00E+00	3.62E-04	0.00E+00	0.00E+00
B5S2	903	ALL		571701	4178372	NonCancer	7.46E-03	8.24E-03	3.20%	7.29E-05	5.61E-04	1.47E-05	8.34E-03	9.35E-03	7.45E-03	2.38E-06	0.00E+00	4.75E-07	6.08E-03	0.00E+00	0.00E+00
PCV	903	ALL		571701	4178372	NonCancer	8.20E-06	7.82E-03	3.04%	0.00E+00	1.64E-03	8.20E-06	0.00E+00	9.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-05	0.00E+00	0.00E+00
S5354	903	ALL		571701	4178372	NonCancer	6.77E-06	6.45E-03	2.50%	0.00E+00	1.35E-03	6.77E-06	0.00E+00	7.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-05	0.00E+00	0.00E+00
B2S2	903	ALL		571701	4178372	NonCancer	4.82E-03	5.42E-03	2.11%	1.52E-05	3.12E-04	1.22E-05	5.12E-03	4.84E-03	4.81E-03	0.00E+00	0.00E+00	0.00E+00	9.87E-06	0.00E+00	0.00E+00
S49	903	ALL		571701	4178372	NonCancer	4.82E-03	5.42E-03	2.11%	1.52E-05	3.12E-04	1.22E-05	5.12E-03	4.84E-03	4.81E-03	0.00E+00	0.00E+00	0.00E+00	9.87E-06	0.00E+00	0.00E+00
S5657	903	ALL		571701	4178372	NonCancer	4.93E-06	4.70E-03	1.82%	0.00E+00	9.86E-04	4.93E-06	0.00E+00	5.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-06	0.00E+00	0.00E+00
S1	903	ALL		571701	4178372	NonCancer	1.31E-03	3.55E-03	1.38%	3.84E-06	1.97E-03	2.15E-03	5.46E-03	3.63E-03	1.31E-03	5.26E-08	0.00E+00	2.14E-03	2.20E-03	0.00E+00	0.00E+00
F4	903	ALL		571701	4178372	NonCancer	2.59E-03	2.82E-03	1.09%	7.69E-06	9.56E-05	6.05E-06	2.67E-03	2.60E-03	2.58E-03	0.00E+00	0.00E+00	0.00E+00	7.85E-06	0.00E+00	0.00E+00
S4	903	ALL		571701	4178372	NonCancer	2.21E-03	2.41E-03	0.94%	6.57E-06	8.16E-05	5.17E-06	2.28E-03	2.22E-03	2.21E-03	0.00E+00	0.00E+00	0.00E+00	6.71E-06	0.00E+00	0.00E+00
F25	903	ALL		571701	4178372	NonCancer	2.23E-03	2.40E-03	0.93%	6.79E-06	9.07E-05	5.55E-06	2.31E-03	2.25E-03	2.23E-03	0.00E+00	0.00E+00	0.00E+00	1.70E-05	0.00E+00	0.00E+00
S25	903	ALL		571701	4178372	NonCancer	1.78E-03	1.92E-03	0.75%	5.42E-06	7.24E-05	4.43E-06	1.85E-03	1.80E-03	1.78E-03	0.00E+00	0.00E+00	0.00E+00	1.36E-05	0.00E+00	0.00E+00
S3	903	ALL		571701	4178372	NonCancer	1.82E-03	1.92E-03	0.74%	5.74E-06	8.62E-05	4.65E-06	1.90E-03	1.87E-03	1.82E-03	0.00E+00	0.00E+00	0.00E+00	4.72E-05	0.00E+00	0.00E+00
S55	903	ALL		571701	4178372	NonCancer	1.92E-06	1.83E-03	0.71%	0.00E+00	3.84E-04	1.92E-06	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-06	0.00E+00	0.00E+00
S46	903	ALL		571701	4178372	NonCancer	1.06E-03	1.25E-03	0.49%	0.00E+00	0.00E+00	0.00E+00	1.06E-03	1.09E-03	1.06E-03	0.00E+00	0.00E+00	0.00E+00	3.16E-05	0.00E+00	0.00E+00
S37	903	ALL		571701	4178372	NonCancer	3.57E-04	3.70E-04	0.14%	4.20E-07	3.76E-05	6.39E-08	3.70E-04	4.14E-04	3.57E-04	5.00E-09	0.00E+00	2.76E-10	3.78E-05	0.00E+00	0.00E+00
S10	903	ALL		571701	4178372	NonCancer	1.50E-04	1.55E-04	0.06%	1.76E-07	1.57E-05	2.69E-08	1.55E-04	1.75E-04	1.50E-04	4.19E-09	0.00E+00	2.31E-10	1.61E-05	0.00E+00	0.00E+00
S9	903	ALL		571701	4178372	NonCancer	9.42E-05	9.76E-05	0.04%	1.10E-07	9.88E-06	1.69E-08	9.76E-05	1.10E-04	9.42E-05	2.63E-09	0.00E+00	1.45E-10	1.01E-05	0.00E+00	0.00E+00
S7	903	ALL		571701	4178372	NonCancer	9.13E-05	9.46E-05	0.04%	1.07E-07	9.58E-06	1.64E-08	9.46E-05	1.07E-04	9.13E-05	2.55E-09	0.00E+00	1.41E-10	9.83E-06	0.00E+00	0.00E+00
S64	903	ALL		571701	4178372	NonCancer	6.11E-05	6.57E-05	0.03%	1.86E-07	2.48E-06	1.52E-07	6.33E-05	6.17E-05	6.09E-05	0.00E+00	0.00E+00	0.00E+00	4.64E-07	0.00E+00	0.00E+00
F64	903	ALL		571701	4178372	NonCancer	5.70E-05	6.14E-05	0.02%	1.73E-07	2.31E-06	1.42E-07	5.91E-05	5.75E-05	5.69E-05	0.00E+00	0.00E+00	0.00E+00	4.33E-07	0.00E+00	0.00E+00
S31	903	ALL		571701	4178372	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S32	903	ALL		571701	4178372	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.34E-06	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S47	903	ALL		571701	4178372	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S51	903	ALL		571701	4178372	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
							1.90E-01	2.58E-01	100.00%	1.31E-03	4.24E-02	2.61E-03	2.31E-01	2.29E-01	1.90E-01	4.77E-06	0.00E+00	2.22E-03	4.14E-02	0.00E+00	0.00E+00

DRAFT

14. Appendix E – HARP2 Output: Worker Cancer Risk – Significant Sources

DRAFT

Worker Cancer Risk (Facility)

*HARP - HRACalc v19044 3/16/2021 4:41:50 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\WkrCaHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0.000674491	79345	TetraClEth	2.31E-08	25YrCance	0.05%	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000460119	79005	1,1,2TriClE	4.50E-09	25YrCance	0.01%	4.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000134944	75343	1,1-DiClEth	1.32E-10	25YrCance	0.00%	1.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.01029946	106990	1,3-Butadie	1.06E-06	25YrCance	2.31%	1.06E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000542533	106467	p-DiClBenz	3.72E-09	25YrCance	0.01%	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000236969	123911	1,4-Dioxan	1.10E-09	25YrCance	0.00%	1.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000123574	75070	Acetaldehy	2.12E-10	25YrCance	0.00%	2.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00073113	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000958626	107131	Acrylonitrile	1.65E-07	25YrCance	0.36%	1.65E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000121768	107051	AllylChlor	4.39E-10	25YrCance	0.00%	4.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001186605	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000225673	7440382	Arsenic	1.71E-06	25YrCance	3.72%	4.65E-07	1.03E-06	2.14E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.1318092	71432	Benzene	2.26E-06	25YrCance	4.93%	2.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000422036	100447	Benzyl Chl	1.23E-08	25YrCance	0.03%	1.23E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7440417	Beryllium	1.12E-07	25YrCance	0.24%	1.12E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000716941	7440439	Cadmium	1.85E-06	25YrCance	4.02%	1.85E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001816235	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000585939	56235	CCl4	1.51E-08	25YrCance	0.03%	1.51E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000610271	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00019059	67663	Chloroform	6.21E-10	25YrCance	0.00%	6.21E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000418986	18540299	Cr(VI)	3.73E-05	25YrCance	81.39%	3.67E-05	6.36E-07	4.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006067691	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.009420006	100414	Ethyl Benz	1.41E-08	25YrCance	0.03%	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00010412	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000823377	106934	EDB	3.53E-08	25YrCance	0.08%	3.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000158807	107062	EDC	1.96E-09	25YrCance	0.00%	1.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.02027173	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00364418	50000	Formaldehy	1.31E-08	25YrCance	0.03%	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.217674	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.01055615	7439921	Lead	3.77E-07	25YrCance	0.82%	7.61E-08	2.73E-07	2.84E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.03029582	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001616065	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.008674626	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000521677	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000213494	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.2315656	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000141158	1634044	Me t-ButylE	4.36E-11	25YrCance	0.00%	4.36E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000365657	75092	Methylene	2.20E-10	25YrCance	0.00%	2.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004643435	91203	Naphthaler	9.56E-08	25YrCance	0.21%	9.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.0283621	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003576813	7440020	Nickel	5.59E-07	25YrCance	1.22%	5.59E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000403414	9901	DieselExhF	7.61E-08	25YrCance	0.17%	7.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.01E-09	1746016	2,3,7,8-TCI	1.43E-07	25YrCance	0.31%	1.67E-08	8.64E-08	4.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00670561	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000662105	127184	Perc	2.39E-09	25YrCance	0.01%	2.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002743277	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.124407	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000516083	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002769009	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.09040163	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000449507	79016	TCE	5.40E-10	25YrCance	0.00%	5.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.03E-05	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000268963	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000216782	75014	Vinyl Chlor	1.00E-08	25YrCance	0.02%	1.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000155292	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.01716761	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								4.59E-05		100.00%												

Worker Cancer Risk Rank (Significant Sources)

*HARP - HRACalc v19044 3/17/2021 2:00:29 PM - Cancer Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.WkrCaCntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
S5354	74	ALL		571141	4178252	1.21E-05	25YrCance	26.41%	1.18E-05	2.53E-07	1.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PCV	74	ALL		571141	4178252	1.05E-05	25YrCance	22.79%	1.02E-05	2.18E-07	1.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5657	74	ALL		571141	4178252	8.48E-06	25YrCance	18.48%	8.29E-06	1.77E-07	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S55	74	ALL		571141	4178252	3.39E-06	25YrCance	7.39%	3.32E-06	7.08E-08	5.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BS2F	74	ALL		571141	4178252	2.38E-06	25YrCance	5.18%	1.92E-06	3.77E-07	7.54E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B5S2	74	ALL		571141	4178252	2.09E-06	25YrCance	4.55%	2.06E-06	2.73E-08	5.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B4S2	74	ALL		571141	4178252	1.84E-06	25YrCance	4.02%	1.73E-06	9.41E-08	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AS2F	74	ALL		571141	4178252	1.55E-06	25YrCance	3.38%	1.26E-06	2.39E-07	4.70E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS2F	74	ALL		571141	4178252	9.82E-07	25YrCance	2.14%	8.50E-07	1.10E-07	2.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F3	74	ALL		571141	4178252	8.64E-07	25YrCance	1.88%	7.77E-07	7.41E-08	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F1	74	ALL		571141	4178252	8.64E-07	25YrCance	1.88%	6.28E-07	2.03E-07	3.30E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1	74	ALL		571141	4178252	2.60E-07	25YrCance	0.57%	1.29E-07	9.16E-08	3.97E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F4	74	ALL		571141	4178252	9.57E-08	25YrCance	0.21%	7.72E-08	1.54E-08	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F25	74	ALL		571141	4178252	9.07E-08	25YrCance	0.20%	7.03E-08	1.73E-08	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B2S2	74	ALL		571141	4178252	8.37E-08	25YrCance	0.18%	6.83E-08	1.29E-08	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S49	74	ALL		571141	4178252	8.37E-08	25YrCance	0.18%	6.83E-08	1.29E-08	2.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S31	74	ALL		571141	4178252	7.61E-08	25YrCance	0.17%	7.61E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S3	74	ALL		571141	4178252	5.61E-08	25YrCance	0.12%	5.04E-08	4.81E-09	8.83E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S25	74	ALL		571141	4178252	4.42E-08	25YrCance	0.10%	3.42E-08	8.41E-09	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4	74	ALL		571141	4178252	4.21E-08	25YrCance	0.09%	3.40E-08	6.79E-09	1.33E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S37	74	ALL		571141	4178252	1.23E-08	25YrCance	0.03%	9.65E-09	2.17E-09	4.48E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S10	74	ALL		571141	4178252	9.37E-09	25YrCance	0.02%	7.54E-09	1.51E-09	3.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S46	74	ALL		571141	4178252	4.70E-09	25YrCance	0.01%	1.47E-09	2.68E-09	5.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S9	74	ALL		571141	4178252	4.60E-09	25YrCance	0.01%	3.70E-09	7.42E-10	1.53E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S7	74	ALL		571141	4178252	4.56E-09	25YrCance	0.01%	3.67E-09	7.36E-10	1.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F64	74	ALL		571141	4178252	2.49E-09	25YrCance	0.01%	1.93E-09	4.75E-10	8.70E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S64	74	ALL		571141	4178252	1.33E-09	25YrCance	0.00%	1.03E-09	2.53E-10	4.63E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S32	74	ALL		571141	4178252	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S47	74	ALL		571141	4178252	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S51	74	ALL		571141	4178252	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
						4.59E-05		100.00%												

DRAFT

Worker Cancer Risk (S5354 - Pipe Casting S53, S54: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 2:08:24 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5354.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440382	Arsenic	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440417	Beryllium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000191247	7440439	Cadmium	4.92E-07	25YrCance	4.06%	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000129586	18540299	Cr(VI)	1.16E-05	25YrCance	95.30%	1.13E-05	1.97E-07	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001746964	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002179108	7439921	Lead	7.78E-08	25YrCance	0.64%	1.57E-08	5.63E-08	5.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.007815365	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440020	Nickel	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.88E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.21E-05		100.00%												

Worker Cancer Risk (PCV - New Pipe Casting Roof Ventilation: 50% of Pipe Casting Fugitive Emissions)

*HARP - HRACalc v19044 3/17/2021 2:09:24 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\PCV.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440382	Arsenic	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440417	Beryllium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000164965	7440439	Cadmium	4.25E-07	25YrCance	4.06%	4.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000111778	18540299	Cr(VI)	9.96E-06	25YrCance	95.30%	9.78E-06	1.70E-07	1.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00150689	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001879647	7439921	Lead	6.71E-08	25YrCance	0.64%	1.35E-08	4.85E-08	5.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006741351	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440020	Nickel	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.63E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Worker Cancer Risk (S5657 - Pipe Casting S56, S57: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 2:09:04 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5657.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440382	Arsenic	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440417	Beryllium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000133791	7440439	Cadmium	3.44E-07	25YrCance	4.06%	3.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.07E-05	18540299	Cr(VI)	8.08E-06	25YrCance	95.30%	7.93E-06	1.38E-07	9.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001222126	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001524441	7439921	Lead	5.44E-08	25YrCance	0.64%	1.10E-08	3.94E-08	4.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005467406	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440020	Nickel	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.32E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								8.48E-06		100.00%												

Worker Cancer Risk (S55 - Pipe Casting S55: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/17/2021 2:08:44 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S55.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440382	Arsenic	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440417	Beryllium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.35E-05	7440439	Cadmium	1.38E-07	25YrCance	4.06%	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.63E-05	18540299	Cr(VI)	3.23E-06	25YrCance	95.30%	3.17E-06	5.51E-08	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000488967	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000609922	7439921	Lead	2.18E-08	25YrCance	0.64%	4.40E-09	1.58E-08	1.64E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002187483	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440020	Nickel	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.28E-06	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								3.39E-06		100.00%												

Worker Cancer Risk (BS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area B)

*HARP - HRACalc v19044 3/17/2021 2:02:28 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\BS2F.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	7.42E-06	79345	TetraClEth	2.55E-10	25YrCance	0.01%	2.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.91E-06	79005	1,1,2TriClE	5.78E-11	25YrCance	0.00%	5.78E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.82E-06	75343	1,1-DiClEth	2.75E-12	25YrCance	0.00%	2.75E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000342215	106990	1,3-Butadie	3.52E-08	25YrCance	1.48%	3.52E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.53E-06	106467	p-DiClBenz	4.48E-11	25YrCance	0.00%	4.48E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-06	123911	1,4-Dioxan	1.81E-11	25YrCance	0.00%	1.81E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.03E-05	107131	Acrylonitrile	1.77E-09	25YrCance	0.07%	1.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.37E-06	107051	AllylChlor	1.21E-11	25YrCance	0.00%	1.21E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7440382	Arsenic	5.88E-07	25YrCance	24.75%	1.60E-07	3.54E-07	7.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003943918	71432	Benzene	6.77E-08	25YrCance	2.85%	6.77E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.63E-06	100447	Benzyl Chl	1.64E-10	25YrCance	0.01%	1.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.87E-05	7440417	Beryllium	5.58E-08	25YrCance	2.35%	5.58E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.40E-05	7440439	Cadmium	1.39E-07	25YrCance	5.85%	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.46E-05	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.80E-06	56235	CCl4	1.75E-10	25YrCance	0.01%	1.75E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.01E-06	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.29E-06	67663	Chloroform	1.72E-11	25YrCance	0.00%	1.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.25E-05	18540299	Cr(VI)	1.12E-06	25YrCance	47.03%	1.10E-06	1.90E-08	1.32E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000227854	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000275173	100414	Ethyl Benz	4.11E-10	25YrCance	0.02%	4.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.88E-06	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.31E-06	106934	EDB	3.57E-10	25YrCance	0.02%	3.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.40E-06	107062	EDC	5.43E-11	25YrCance	0.00%	5.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.49E-05	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000169524	7439921	Lead	6.05E-09	25YrCance	0.25%	1.22E-09	4.38E-09	4.55E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000936481	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000114383	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000406371	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.19E-06	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.91E-06	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.0004311	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-06	1634044	Me t-ButylE	1.21E-12	25YrCance	0.00%	1.21E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.35E-06	75092	Methylene	4.41E-12	25YrCance	0.00%	4.41E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000277783	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002324113	7440020	Nickel	3.63E-07	25YrCance	15.28%	3.63E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000387413	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.35E-06	127184	Perc	2.65E-11	25YrCance	0.00%	2.65E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002826878	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.42E-05	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002705433	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.84E-06	79016	TCE	7.01E-12	25YrCance	0.00%	7.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.72E-07	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.49E-06	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.75E-06	75014	Vinyl Chlor	1.27E-10	25YrCance	0.01%	1.27E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.33E-06	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00055804	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								2.38E-06		100.00%												

Worker Cancer Risk (B5S2 - Pouring, Cooling, Shakeout S2: Baghouse 5)

*HARP - HRACalc v19044 3/17/2021 2:01:48 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B5S2.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	5.88E-05	79345	TetraClEth	2.02E-09	25YrCance	0.10%	2.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.67E-05	79005	1,1,2TriClE	4.57E-10	25YrCance	0.02%	4.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-05	75343	1,1-DiClEth	3.32E-11	25YrCance	0.00%	3.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005230614	106990	1,3-Butadie	5.39E-07	25YrCance	25.77%	5.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.13E-05	106467	p-DiClBenz	3.52E-10	25YrCance	0.02%	3.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.09E-05	123911	1,4-Dioxan	1.43E-10	25YrCance	0.01%	1.43E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000150782	107131	Acrylonitrile	2.59E-08	25YrCance	1.24%	2.59E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.64E-05	107051	AllylChlor	9.51E-11	25YrCance	0.00%	9.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.31E-06	7440382	Arsenic	4.02E-08	25YrCance	1.92%	1.09E-08	2.42E-08	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.07075577	71432	Benzene	1.21E-06	25YrCance	58.11%	1.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.45E-05	100447	Benzyl Chl	1.30E-09	25YrCance	0.06%	1.30E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.66E-06	7440417	Beryllium	3.83E-09	25YrCance	0.18%	3.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.47E-05	7440439	Cadmium	3.78E-08	25YrCance	1.81%	3.78E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000716213	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.35E-05	56235	CCl4	1.38E-09	25YrCance	0.07%	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-05	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.15E-05	67663	Chloroform	1.35E-10	25YrCance	0.01%	1.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.16E-06	18540299	Cr(VI)	1.03E-07	25YrCance	4.95%	1.02E-07	1.76E-09	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.45E-05	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004939605	100414	Ethyl Benz	7.37E-09	25YrCance	0.35%	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.26E-05	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.56E-05	106934	EDB	2.81E-09	25YrCance	0.13%	2.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.47E-05	107062	EDC	4.28E-10	25YrCance	0.02%	4.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000132437	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.22E-05	7439921	Lead	1.87E-09	25YrCance	0.09%	3.76E-10	1.35E-09	1.40E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000213357	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.08E-06	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002778905	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.32E-05	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.67E-05	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002943257	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.09E-05	1634044	Me t-ButylE	9.55E-12	25YrCance	0.00%	9.55E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.96E-05	75092	Methylene	3.58E-11	25YrCance	0.00%	3.58E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004283705	91203	Naphthaler	8.82E-08	25YrCance	4.22%	8.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006663038	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000112927	7440020	Nickel	1.76E-08	25YrCance	0.84%	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001376636	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.81E-05	127184	Perc	2.09E-10	25YrCance	0.01%	2.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002536146	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.07456753	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.31E-06	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001572652	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.04706195	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.60E-05	79016	TCE	5.52E-11	25YrCance	0.00%	5.52E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.56E-07	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.03E-05	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.19E-05	75014	Vinyl Chlor	1.01E-09	25YrCance	0.05%	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-05	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.008609629	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								2.09E-06		100.00%												

Worker Cancer Risk (B4S2 - Pouring, Cooling, Shakeout S2: Baghouse 4)

*HARP - HRACalc v19044 3/17/2021 2:01:28 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B4S2.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	9.25E-05	79345	TetraClEth	3.17E-09	25YrCance	0.17%	3.17E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.36E-05	79005	1,1,2TriClE	7.20E-10	25YrCance	0.04%	7.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.51E-05	75343	1,1-DiClEth	3.43E-11	25YrCance	0.00%	3.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004265731	106990	1,3-Butadie	4.39E-07	25YrCance	23.83%	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.13E-05	106467	p-DiClBenz	5.58E-10	25YrCance	0.03%	5.58E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.88E-05	123911	1,4-Dioxan	2.26E-10	25YrCance	0.01%	2.26E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00012872	107131	Acrylonitrile	2.21E-08	25YrCance	1.20%	2.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.20E-05	107051	AllylChlor	1.51E-10	25YrCance	0.01%	1.51E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.96E-05	7440382	Arsenic	1.48E-07	25YrCance	8.03%	4.03E-08	8.91E-08	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.04916123	71432	Benzene	8.44E-07	25YrCance	45.77%	8.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.02E-05	100447	Benzyl Chl	2.05E-09	25YrCance	0.11%	2.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.75E-06	7440417	Beryllium	1.41E-08	25YrCance	0.76%	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.36E-05	7440439	Cadmium	3.50E-08	25YrCance	1.90%	3.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000804855	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.48E-05	56235	CCl4	2.18E-09	25YrCance	0.12%	2.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.25E-05	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.59E-05	67663	Chloroform	2.15E-10	25YrCance	0.01%	2.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.54E-06	18540299	Cr(VI)	2.27E-07	25YrCance	12.29%	2.22E-07	3.86E-09	2.68E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.73E-05	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003430052	100414	Ethyl Benz	5.12E-09	25YrCance	0.28%	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.60E-05	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000103604	106934	EDB	4.44E-09	25YrCance	0.24%	4.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.48E-05	107062	EDC	6.77E-10	25YrCance	0.04%	6.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000559974	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.27E-05	7439921	Lead	1.52E-09	25YrCance	0.08%	3.08E-10	1.10E-09	1.15E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000235705	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.88E-05	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005065449	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.22E-05	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.36E-05	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005373691	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.88E-05	1634044	Me t-ButylE	1.51E-11	25YrCance	0.00%	1.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.16E-05	75092	Methylene	5.50E-11	25YrCance	0.00%	5.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003462589	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000584962	7440020	Nickel	9.13E-08	25YrCance	4.96%	9.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00482913	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.16E-05	127184	Perc	3.30E-10	25YrCance	0.02%	3.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.03523723	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.96E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000799718	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.03372342	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.28E-05	79016	TCE	8.74E-11	25YrCance	0.00%	8.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.85E-08	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.33E-05	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.42E-05	75014	Vinyl Chlor	1.59E-09	25YrCance	0.09%	1.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.39E-05	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006956001	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.84E-06		100.00%												

Worker Cancer Risk (AS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area A)

*HARP - HRACalc v19044 3/17/2021 2:02:08 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\AS2F.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.81E-05	7440382	Arsenic	3.64E-07	25YrCance	23.46%	9.90E-08	2.19E-07	4.56E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.73E-06	7440417	Beryllium	1.11E-08	25YrCance	0.72%	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.46E-06	7440439	Cadmium	1.92E-08	25YrCance	1.24%	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.29E-05	18540299	Cr(VI)	1.15E-06	25YrCance	74.42%	1.13E-06	1.97E-08	1.36E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.53E-05	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.87E-05	7439921	Lead	1.03E-09	25YrCance	0.07%	2.07E-10	7.42E-10	7.72E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00195039	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.39E-06	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.86E-06	7440020	Nickel	1.54E-09	25YrCance	0.10%	1.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000165152	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.12E-05	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.55E-06		100.00%												

Worker Cancer Risk (CS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area C)

*HARP - HRACalc v19044 3/17/2021 2:02:47 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\CS2F.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	4.80E-06	79345	TetraClEth	1.65E-10	25YrCance	0.02%	1.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.82E-06	79005	1,1,2TriClE	3.73E-11	25YrCance	0.00%	3.73E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.77E-06	75343	1,1-DiClEth	2.71E-12	25YrCance	0.00%	2.71E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000427191	106990	1,3-Butadie	4.40E-08	25YrCance	4.48%	4.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.19E-06	106467	p-DiClBenz	2.87E-11	25YrCance	0.00%	2.87E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.52E-06	123911	1,4-Dioxan	1.17E-11	25YrCance	0.00%	1.17E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.23E-05	107131	Acrylonitrile	2.11E-09	25YrCance	0.22%	2.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.16E-06	107051	AllylChlor	7.77E-12	25YrCance	0.00%	7.77E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.15E-05	7440382	Arsenic	1.63E-07	25YrCance	16.55%	4.42E-08	9.79E-08	2.04E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005778721	71432	Benzene	9.92E-08	25YrCance	10.10%	9.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.63E-06	100447	Benzyl Chl	1.06E-10	25YrCance	0.01%	1.06E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.07E-05	7440417	Beryllium	1.55E-08	25YrCance	1.58%	1.55E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.94E-05	7440439	Cadmium	1.53E-07	25YrCance	15.57%	1.53E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.85E-05	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.37E-06	56235	CCl4	1.13E-10	25YrCance	0.01%	1.13E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.20E-06	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-06	67663	Chloroform	1.10E-11	25YrCance	0.00%	1.10E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.69E-06	18540299	Cr(VI)	4.18E-07	25YrCance	42.61%	4.11E-07	7.13E-09	4.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000220258	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000403424	100414	Ethyl Benz	6.02E-10	25YrCance	0.06%	6.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.85E-06	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.36E-06	106934	EDB	2.30E-10	25YrCance	0.02%	2.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.83E-06	107062	EDC	3.50E-11	25YrCance	0.00%	3.50E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.08E-05	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000211231	7439921	Lead	7.54E-09	25YrCance	0.77%	1.52E-09	5.45E-09	5.67E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000862979	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.27E-05	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000226957	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.71E-06	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.82E-06	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00024038	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.52E-06	1634044	Me t-ButylE	7.80E-13	25YrCance	0.00%	7.80E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.86E-06	75092	Methylene	2.92E-12	25YrCance	0.00%	2.92E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000349856	91203	Naphthaler	7.20E-09	25YrCance	0.73%	7.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00054418	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000456765	7440020	Nickel	7.13E-08	25YrCance	7.26%	7.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000112432	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.74E-06	127184	Perc	1.71E-11	25YrCance	0.00%	1.71E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000207131	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006090032	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.15E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000128441	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003843614	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.76E-06	79016	TCE	4.51E-12	25YrCance	0.00%	4.51E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.78E-07	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.93E-06	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.79E-06	75014	Vinyl Chlor	8.27E-11	25YrCance	0.01%	8.27E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.77E-06	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00070316	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								9.82E-07		100.00%												

Worker Cancer Risk (F1 - Cupola: Fugitive Emissions)

*HARP - HRACalc v19044 3/17/2021 2:00:49 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\F1.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0.000322912	79345	TetraClEth	1.11E-08	25YrCance	1.28%	1.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000208547	79005	1,1,2TriClE	2.04E-09	25YrCance	0.24%	2.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.81E-05	75343	1,1-DiClEth	3.73E-11	25YrCance	0.00%	3.73E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.13E-05	106990	1,3-Butadie	2.19E-09	25YrCance	0.25%	2.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000252275	106467	p-DiClBenz	1.73E-09	25YrCance	0.20%	1.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.53E-05	123911	1,4-Dioxan	4.42E-10	25YrCance	0.05%	4.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000435034	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000414852	107131	Acrylonitrile	7.12E-08	25YrCance	8.24%	7.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.03E-05	107051	AllylChlor	1.09E-10	25YrCance	0.01%	1.09E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.24E-05	7440382	Arsenic	1.69E-07	25YrCance	19.59%	4.61E-08	1.02E-07	2.12E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001308629	71432	Benzene	2.25E-08	25YrCance	2.60%	2.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000188365	100447	Benzyl Chl	5.50E-09	25YrCance	0.64%	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.36E-06	7440417	Beryllium	4.84E-09	25YrCance	0.56%	4.84E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.32E-05	7440439	Cadmium	3.40E-08	25YrCance	3.94%	3.40E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000108758	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00027582	56235	CCl4	7.10E-09	25YrCance	0.82%	7.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000316184	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.71E-05	67663	Chloroform	1.54E-10	25YrCance	0.02%	1.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.09E-06	18540299	Cr(VI)	3.64E-07	25YrCance	42.15%	3.58E-07	6.21E-09	4.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000344622	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000222375	100414	Ethyl Benz	3.32E-10	25YrCance	0.04%	3.32E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.58E-05	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000404761	106934	EDB	1.74E-08	25YrCance	2.01%	1.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-05	107062	EDC	4.85E-10	25YrCance	0.06%	4.85E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001890242	50000	Formaldehy	6.81E-09	25YrCance	0.79%	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.31E-05	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003499508	7439921	Lead	1.25E-07	25YrCance	14.47%	2.52E-08	9.04E-08	9.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.0031087	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001314536	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000124456	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000271335	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.27E-05	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000196214	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.48E-05	1634044	Me t-ButylE	1.07E-11	25YrCance	0.00%	1.07E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000127819	75092	Methylene	7.68E-11	25YrCance	0.01%	7.68E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000968734	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.97E-05	7440020	Nickel	4.63E-09	25YrCance	0.54%	4.63E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.95E-11	1746016	2,3,7,8-TCI	7.02E-09	25YrCance	0.81%	8.17E-10	4.23E-09	1.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000316184	127184	Perc	1.14E-09	25YrCance	0.13%	1.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002282805	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.32E-05	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00012894	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001773771	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000202941	79016	TCE	2.44E-10	25YrCance	0.03%	2.44E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.93E-06	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.50E-05	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.87E-05	75014	Vinyl Chlor	4.57E-09	25YrCance	0.53%	4.57E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.81E-05	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000135668	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								8.64E-07		100.00%												

Worker Cancer Risk (S1 - Cupola: Stack Emissions)

*HARP - HRACalc v19044 3/17/2021 2:00:29 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0.000188081	79345	TetraClEth	6.45E-09	25YrCance	2.48%	6.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000121469	79005	1,1,2TriClE	1.19E-09	25YrCance	0.46%	1.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.22E-05	75343	1,1-DiClEth	2.17E-11	25YrCance	0.01%	2.17E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.24E-05	106990	1,3-Butadie	1.28E-09	25YrCance	0.49%	1.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000146938	106467	p-DiClBenz	1.01E-09	25YrCance	0.39%	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.55E-05	123911	1,4-Dioxan	2.57E-10	25YrCance	0.10%	2.57E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000253387	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000241632	107131	Acrylonitrile	4.15E-08	25YrCance	15.95%	4.15E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.76E-05	107051	AllylChlor	6.35E-11	25YrCance	0.02%	6.35E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.06E-06	7440382	Arsenic	8.05E-09	25YrCance	3.10%	2.19E-09	4.85E-09	1.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000762216	71432	Benzene	1.31E-08	25YrCance	5.03%	1.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000109714	100447	Benzyl Chl	3.20E-09	25YrCance	1.23%	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.60E-07	7440417	Beryllium	2.30E-10	25YrCance	0.09%	2.30E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.28E-07	7440439	Cadmium	1.62E-09	25YrCance	0.62%	1.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.33E-05	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000160653	56235	CCl4	4.14E-09	25YrCance	1.59%	4.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000184163	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.74E-05	67663	Chloroform	8.94E-11	25YrCance	0.03%	8.94E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.94E-07	18540299	Cr(VI)	1.73E-08	25YrCance	6.66%	1.70E-08	2.95E-10	2.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.64E-05	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000129524	100414	Ethyl Benz	1.93E-10	25YrCance	0.07%	1.93E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.50E-05	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000235754	106934	EDB	1.01E-08	25YrCance	3.89%	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.29E-05	107062	EDC	2.82E-10	25YrCance	0.11%	2.82E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001100979	50000	Formaldehy	3.97E-09	25YrCance	1.53%	3.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.42E-05	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000166361	7439921	Lead	5.94E-09	25YrCance	2.29%	1.20E-09	4.30E-09	4.47E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000147783	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.25E-05	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.25E-05	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00015804	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.07E-05	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000114285	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.02E-05	1634044	Me t-ButylE	6.25E-12	25YrCance	0.00%	6.25E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.44E-05	75092	Methylene	4.47E-11	25YrCance	0.02%	4.47E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000564243	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.41E-06	7440020	Nickel	2.20E-10	25YrCance	0.08%	2.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.62E-10	1746016	2,3,7,8-TCI	1.36E-07	25YrCance	52.42%	1.59E-08	8.22E-08	3.82E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000184163	127184	Perc	6.64E-10	25YrCance	0.26%	6.64E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001329629	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.48E-06	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.51E-05	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00103314	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000118204	79016	TCE	1.42E-10	25YrCance	0.05%	1.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.49E-07	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.79E-05	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.75E-05	75014	Vinyl Chlor	2.66E-09	25YrCance	1.02%	2.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.22E-05	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.90E-05	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								2.60E-07		100.00%												

Worker Cancer Risk (B2S2 - Pouring, Cooling, Shakeout S2: Baghouse 2)

*HARP - HRACalc v19044 3/17/2021 2:01:09 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B2S2.WkrCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRI	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_	MMILK_RI	WATER_R	FISH_RISK	CROP_RIS	BEEF_RIS	DAIRY_RI	PIG_RISK	CHICKEN_	EGG_RISK
74	ALL		571141	4178252	0	79345	TetraClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEth	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.60E-06	7440382	Arsenic	1.96E-08	25YrCance	23.46%	5.35E-09	1.18E-08	2.46E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.18E-07	7440417	Beryllium	6.02E-10	25YrCance	0.72%	6.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.03E-07	7440439	Cadmium	1.04E-09	25YrCance	1.24%	1.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.99E-07	18540299	Cr(VI)	6.23E-08	25YrCance	74.42%	6.12E-08	1.06E-09	7.36E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.45E-06	7440508	Copper	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldehy	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.55E-06	7439921	Lead	5.55E-11	25YrCance	0.07%	1.12E-11	4.01E-11	4.17E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000105375	7439965	Manganese	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.39E-06	7439976	Mercury	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-ButylE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.33E-07	7440020	Nickel	8.32E-11	25YrCance	0.10%	8.32E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TCI	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.92E-06	7782492	Selenium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.69E-06	7440622	Vanadium	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	0.00E+00	25YrCance	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								8.37E-08		100.00%												

15. Appendix F – HARP2 Output: Worker Chronic HI by Significant Source

DRAFT

Worker Chronic HI (Facility)

*HARP - HRACalc v19044 3/16/2021 4:52:19 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\WkrChHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	0.000674	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00046	79005	1,1,2TriCle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000135	75343	1,1-DiClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.010299	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000543	106467	p-DiClBenz	NonCancer	0.00E+00	6.78E-07	0.00%	0.00E+00	6.78E-07	6.78E-07	0.00E+00	6.78E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000237	123911	1,4-Dioxan	NonCancer	7.90E-08	0.00E+00	0.00%	0.00E+00	7.90E-08	7.90E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000124	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000731	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000959	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000122	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001187	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000226	7440382	Arsenic	NonCancer	1.04E+00	1.04E+00	65.85%	0.00E+00	0.00E+00	0.00E+00	1.04E+00	1.04E+00	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.131809	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-02	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000422	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	1.11E-02	0.00E+00	5.52E-04	0.00E+00	1.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000717	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	5.38E-02	0.00E+00	0.00E+00	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001816	75150	CS2	NonCancer	0.00E+00	2.27E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	2.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000586	56235	CCl4	NonCancer	0.00E+00	1.46E-05	0.00%	0.00E+00	0.00E+00	1.46E-05	1.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00061	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.10E-07	6.10E-07	6.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000191	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.35E-07	6.35E-07	6.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000419	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006068	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00942	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.71E-06	4.71E-06	4.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.71E-06	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000104	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.47E-09	3.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000823	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000159	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.020272	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003644	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.217674	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.11E-05	0.00E+00	3.11E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.010556	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.030296	7439965	Manganese	NonCancer	0.00E+00	3.37E-01	21.22%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001616	7439976	Mercury	NonCancer	0.00E+00	2.03E-01	12.81%	0.00E+00	2.03E-01	0.00E+00	2.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.008675	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.17E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000522	74839	Methyl Bro	NonCancer	0.00E+00	1.04E-04	0.01%	0.00E+00	0.00E+00	0.00E+00	1.04E-04	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000213	71556	1,1,1-TCA	NonCancer	0.00E+00	2.13E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.231566	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000141	1634044	Me t-Butyle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.76E-08	1.76E-08	0.00E+00	0.00E+00	0.00E+00	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000366	75092	Methylene	NonCancer	9.14E-07	9.14E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004643	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.028362	110543	Hexane	NonCancer	0.00E+00	4.05E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003577	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	4.42E-03	2.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-01	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000403	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.01E-09	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.87E-04	3.87E-04	3.87E-04	0.00E+00	0.00E+00	0.00E+00	3.87E-04	3.87E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006706	106445	p-Cresol	NonCancer	0.00E+00	1.12E-05	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000662	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.89E-05	1.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002743	108952	Phenol	NonCancer	1.37E-05	1.37E-05	0.00%	0.00E+00	1.37E-05	1.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.124407	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000516	7782492	Selenium	NonCancer	1.49E-03	1.49E-03	0.09%	0.00E+00	0.00E+00	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002769	100425	Styrene	NonCancer	0.00E+00	3.08E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.090402	108883	Toluene	NonCancer	0.00E+00	3.01E-04	0.02%	0.00E+00	0.00E+00	0.00E+00	3.01E-04	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00045	79016	TCE	NonCancer	0.00E+00	7.49E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.49E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.03E-05	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000269	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000217	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000155	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	2.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.017168	1330207	Xylenes	NonCancer	0.00E+00	2.45E-05	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-05	0.00E+00	2.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									1.05E+00	1.59E+00	100.00%	1.11E-02	2.57E-01	2.49E-03	1.26E+00	1.35E+00	1.04E+00	2.53E-05	0.00E+00	3.92E-04	3.00E-01	0.00E+00	0.00E+00

Worker Chronic HI Rank (Significant Sources)

*HARP - HRACalc v19044 3/17/2021 5:14:23 PM - Chronic Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.WkrChCntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
BS2F	74	ALL		571141	4178252	NonCancer	3.60E-01	3.85E-01	24.25%	5.53E-03	1.84E-02	5.00E-04	3.77E-01	5.34E-01	3.60E-01	8.07E-07	0.00E+00	1.38E-07	1.67E-01	0.00E+00	0.00E+00	5.34E-01
F1	74	ALL		571141	4178252	NonCancer	1.04E-01	3.04E-01	19.14%	4.80E-04	1.66E-01	2.72E-04	2.70E-01	1.09E-01	1.04E-01	5.36E-07	0.00E+00	1.91E-05	2.58E-03	0.00E+00	0.00E+00	3.04E-01
AS2F	74	ALL		571141	4178252	NonCancer	2.23E-01	2.45E-01	15.44%	1.10E-03	8.60E-04	5.32E-04	2.23E-01	2.25E-01	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00	2.45E-01
CS2F	74	ALL		571141	4178252	NonCancer	9.95E-02	1.13E-01	7.14%	1.53E-03	8.57E-03	1.40E-04	1.04E-01	1.37E-01	9.95E-02	1.01E-06	0.00E+00	2.02E-07	3.46E-02	0.00E+00	0.00E+00	1.37E-01
B4S2	74	ALL		571141	4178252	NonCancer	9.06E-02	9.70E-02	6.11%	1.39E-03	4.65E-03	1.33E-04	9.73E-02	1.35E-01	9.05E-02	1.01E-05	0.00E+00	1.72E-06	5.82E-02	0.00E+00	0.00E+00	1.35E-01
S5354	74	ALL		571141	4178252	NonCancer	5.45E-05	8.69E-02	5.48%	0.00E+00	1.44E-02	5.45E-05	0.00E+00	1.02E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	8.69E-02
PCV	74	ALL		571141	4178252	NonCancer	4.70E-05	7.50E-02	4.72%	0.00E+00	1.24E-02	4.70E-05	0.00E+00	8.81E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.60E-05	0.00E+00	0.00E+00	7.50E-02
F3	74	ALL		571141	4178252	NonCancer	6.21E-02	6.59E-02	4.15%	3.09E-04	3.16E-03	1.49E-04	6.50E-02	6.49E-02	6.20E-02	0.00E+00	0.00E+00	0.00E+00	2.53E-03	0.00E+00	0.00E+00	6.59E-02
S5657	74	ALL		571141	4178252	NonCancer	3.81E-05	6.08E-02	3.83%	0.00E+00	1.00E-02	3.81E-05	0.00E+00	7.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.17E-05	0.00E+00	0.00E+00	6.08E-02
B5S2	74	ALL		571141	4178252	NonCancer	2.46E-02	2.82E-02	1.78%	3.79E-04	2.14E-03	5.32E-05	2.86E-02	3.45E-02	2.46E-02	1.24E-05	0.00E+00	2.47E-06	3.17E-02	0.00E+00	0.00E+00	3.45E-02
S55	74	ALL		571141	4178252	NonCancer	1.52E-05	2.43E-02	1.53%	0.00E+00	4.02E-03	1.52E-05	0.00E+00	2.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-05	0.00E+00	0.00E+00	2.43E-02
F4	74	ALL		571141	4178252	NonCancer	1.43E-02	1.60E-02	1.01%	6.69E-05	5.67E-04	3.14E-05	1.48E-02	1.44E-02	1.42E-02	0.00E+00	0.00E+00	0.00E+00	6.80E-05	0.00E+00	0.00E+00	1.60E-02
F25	74	ALL		571141	4178252	NonCancer	1.38E-02	1.52E-02	0.96%	6.60E-05	6.01E-04	3.22E-05	1.43E-02	1.40E-02	1.37E-02	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	1.52E-02
S1	74	ALL		571141	4178252	NonCancer	4.94E-03	1.45E-02	0.91%	2.28E-05	7.91E-03	3.90E-04	1.35E-02	6.38E-03	4.93E-03	3.12E-07	0.00E+00	3.68E-04	7.23E-04	0.00E+00	0.00E+00	1.45E-02
B2S2	74	ALL		571141	4178252	NonCancer	1.20E-02	1.40E-02	0.88%	5.97E-05	8.34E-04	2.87E-05	1.28E-02	1.21E-02	1.20E-02	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	1.40E-02
S49	74	ALL		571141	4178252	NonCancer	1.20E-02	1.40E-02	0.88%	5.97E-05	8.34E-04	2.87E-05	1.28E-02	1.21E-02	1.20E-02	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00	1.40E-02
S25	74	ALL		571141	4178252	NonCancer	6.71E-03	7.38E-03	0.47%	3.21E-05	2.93E-04	1.57E-05	6.97E-03	6.82E-03	6.69E-03	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	7.38E-03
S4	74	ALL		571141	4178252	NonCancer	6.28E-03	7.06E-03	0.44%	2.94E-05	2.50E-04	1.38E-05	6.50E-03	6.34E-03	6.27E-03	0.00E+00	0.00E+00	0.00E+00	2.99E-05	0.00E+00	0.00E+00	7.06E-03
S3	74	ALL		571141	4178252	NonCancer	4.03E-03	4.28E-03	0.27%	2.01E-05	2.05E-04	9.69E-06	4.22E-03	4.22E-03	4.02E-03	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	4.28E-03
S46	74	ALL		571141	4178252	NonCancer	2.66E-03	3.42E-03	0.22%	0.00E+00	0.00E+00	0.00E+00	2.66E-03	2.78E-03	2.66E-03	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	3.42E-03
S37	74	ALL		571141	4178252	NonCancer	2.17E-03	2.26E-03	0.14%	4.03E-06	2.71E-04	3.66E-07	2.26E-03	2.71E-03	2.17E-03	4.79E-08	0.00E+00	2.65E-09	3.62E-04	0.00E+00	0.00E+00	2.71E-03
S10	74	ALL		571141	4178252	NonCancer	1.52E-03	1.58E-03	0.10%	2.81E-06	1.89E-04	2.57E-07	1.57E-03	1.93E-03	1.52E-03	6.69E-08	0.00E+00	3.68E-09	2.58E-04	0.00E+00	0.00E+00	1.93E-03
S9	74	ALL		571141	4178252	NonCancer	7.43E-04	7.74E-04	0.05%	1.37E-06	9.25E-05	1.26E-07	7.72E-04	9.45E-04	7.43E-04	3.28E-08	0.00E+00	1.81E-09	1.26E-04	0.00E+00	0.00E+00	9.45E-04
S7	74	ALL		571141	4178252	NonCancer	7.38E-04	7.68E-04	0.05%	1.36E-06	9.18E-05	1.25E-07	7.66E-04	9.38E-04	7.37E-04	3.25E-08	0.00E+00	1.79E-09	1.25E-04	0.00E+00	0.00E+00	9.38E-04
F64	74	ALL		571141	4178252	NonCancer	3.78E-04	4.17E-04	0.03%	1.81E-06	1.65E-05	8.85E-07	3.93E-04	3.85E-04	3.78E-04	0.00E+00	0.00E+00	0.00E+00	4.53E-06	0.00E+00	0.00E+00	4.17E-04
S64	74	ALL		571141	4178252	NonCancer	2.02E-04	2.22E-04	0.01%	9.67E-07	8.80E-06	4.71E-07	2.09E-04	2.05E-04	2.01E-04	0.00E+00	0.00E+00	0.00E+00	2.41E-06	0.00E+00	0.00E+00	2.22E-04
S31	74	ALL		571141	4178252	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-05
S32	74	ALL		571141	4178252	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.10E-05	0.00E+00	3.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-05
S47	74	ALL		571141	4178252	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S51	74	ALL		571141	4178252	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
							1.05E+00	1.59E+00	100.00%	1.11E-02	2.57E-01	2.49E-03	1.26E+00	1.35E+00	1.04E+00	2.53E-05	0.00E+00	3.92E-04	3.00E-01	0.00E+00	0.00E+00	

DRAFT

Worker Chronic HI (BS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area B)

*HARP - HRACalc v19044 3/17/2021 5:16:29 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\BS2F.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	7.42E-06	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.91E-06	79005	1,1,2TriClE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.82E-06	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000342	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.53E-06	106467	p-DiClBenz	NonCancer	0.00E+00	8.16E-09	0.00%	0.00E+00	8.16E-09	8.16E-09	0.00E+00	8.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-06	123911	1,4-Dioxan	NonCancer	1.31E-09	0.00E+00	0.00%	0.00E+00	1.31E-09	1.31E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.03E-05	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.37E-06	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7440382	Arsenic	NonCancer	3.60E-01	3.60E-01	93.49%	0.00E+00	0.00E+00	0.00E+00	3.60E-01	3.60E-01	3.60E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003944	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-03	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.63E-06	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.87E-05	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	5.53E-03	0.00E+00	2.75E-04	0.00E+00	5.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.40E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.05E-03	0.00E+00	0.00E+00	2.70E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.46E-05	75150	CS2	NonCancer	0.00E+00	8.07E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	8.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.80E-06	56235	CCl4	NonCancer	0.00E+00	1.70E-07	0.00%	0.00E+00	0.00E+00	1.70E-07	1.70E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.01E-06	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	5.01E-09	5.01E-09	5.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.29E-06	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.76E-08	1.76E-08	1.76E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.25E-05	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-06	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000228	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000275	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.38E-07	1.38E-07	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-07	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.88E-06	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	9.62E-11	9.62E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.31E-06	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.40E-06	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.10E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.49E-05	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.42E-09	0.00E+00	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00017	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000936	7439965	Manganese	NonCancer	0.00E+00	1.04E-02	2.70%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000114	7439976	Mercury	NonCancer	0.00E+00	1.44E-02	3.74%	0.00E+00	1.44E-02	0.00E+00	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000406	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.19E-06	74839	Methyl Bro	NonCancer	0.00E+00	8.38E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	8.38E-07	8.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.91E-06	71556	1,1,1-TCA	NonCancer	0.00E+00	5.91E-09	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000431	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-06	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.89E-10	4.89E-10	0.00E+00	0.00E+00	0.00E+00	4.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.35E-06	75092	Methylene	NonCancer	1.84E-08	1.84E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000278	110543	Hexane	NonCancer	0.00E+00	3.97E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002324	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.87E-03	1.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-01	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000387	106445	p-Cresol	NonCancer	0.00E+00	6.46E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.35E-06	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.10E-07	2.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002827	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.77E-05	7782492	Selenium	NonCancer	2.24E-04	2.24E-04	0.06%	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.42E-05	100425	Styrene	NonCancer	0.00E+00	7.13E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002705	108883	Toluene	NonCancer	0.00E+00	9.02E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	9.02E-06	9.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.84E-06	79016	TCE	NonCancer	0.00E+00	9.73E-09	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.72E-07	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.49E-06	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.74E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.75E-06	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.33E-06	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	6.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000558	1330207	Xylenes	NonCancer	0.00E+00	7.97E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-07	0.00E+00	7.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									3.60E-01	3.85E-01	100.00%	5.53E-03	1.84E-02	5.00E-04	3.77E-01	5.34E-01	3.60E-01	8.07E-07	0.00E+00	1.38E-07	1.67E-01	0.00E+00	0.00E+00

Worker Chronic HI (F1 - Cupola: Fugitive Emissions)

*HARP - HRACalc v19044 3/17/2021 5:14:44 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\F1.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	0.000323	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000209	79005	1,1,2TriCle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.81E-05	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.13E-05	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.07E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000252	106467	p-DiClBenz	NonCancer	0.00E+00	3.15E-07	0.00%	0.00E+00	3.15E-07	3.15E-07	0.00E+00	3.15E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.53E-05	123911	1,4-Dioxan	NonCancer	3.18E-08	0.00E+00	0.00%	0.00E+00	3.18E-08	3.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000435	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000415	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.30E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.03E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.24E-05	7440382	Arsenic	NonCancer	1.04E-01	1.04E-01	34.11%	0.00E+00	0.00E+00	0.00E+00	1.04E-01	1.04E-01	1.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001309	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000188	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.36E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	4.80E-04	0.00E+00	2.38E-05	0.00E+00	4.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.32E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	9.92E-04	0.00E+00	0.00E+00	6.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000109	75150	CS2	NonCancer	0.00E+00	1.36E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	1.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000276	56235	CCl4	NonCancer	0.00E+00	6.90E-06	0.00%	0.00E+00	0.00E+00	6.90E-06	6.90E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000316	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.16E-07	3.16E-07	3.16E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.71E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.57E-07	1.57E-07	1.57E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.09E-06	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-06	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000345	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000222	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.11E-07	1.11E-07	1.11E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-07	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.58E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	8.60E-10	8.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000405	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	9.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00189	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.31E-05	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.33E-08	0.00E+00	1.33E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.0035	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003109	7439965	Manganese	NonCancer	0.00E+00	3.45E-02	11.37%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001315	7439976	Mercury	NonCancer	0.00E+00	1.65E-01	54.42%	0.00E+00	1.65E-01	0.00E+00	1.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000124	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	3.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000271	74839	Methyl Bro	NonCancer	0.00E+00	5.43E-05	0.02%	0.00E+00	0.00E+00	0.00E+00	5.43E-05	5.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.27E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	5.27E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000196	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.48E-05	1634044	Me t-Butyle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.34E-09	4.34E-09	0.00E+00	0.00E+00	0.00E+00	4.34E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000128	75092	Methylene	NonCancer	3.20E-07	3.20E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000969	110543	Hexane	NonCancer	0.00E+00	1.38E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.97E-05	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	3.67E-05	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.95E-11	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.90E-05	1.90E-05	1.90E-05	0.00E+00	0.00E+00	0.00E+00	1.90E-05	1.90E-05	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000316	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	9.03E-06	9.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002283	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.32E-05	7782492	Selenium	NonCancer	2.11E-04	2.11E-04	0.07%	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000129	100425	Styrene	NonCancer	0.00E+00	1.43E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001774	108883	Toluene	NonCancer	0.00E+00	5.91E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	5.91E-06	5.91E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000203	79016	TCE	NonCancer	0.00E+00	3.38E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.93E-06	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.50E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.87E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.81E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	5.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000136	1330207	Xylenes	NonCancer	0.00E+00	1.94E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-07	0.00E+00	1.94E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									1.04E-01	3.04E-01	100.00%	4.80E-04	1.66E-01	2.72E-04	2.70E-01	1.09E-01	1.04E-01	5.36E-07	0.00E+00	1.91E-05	2.58E-03	0.00E+00	0.00E+00

Worker Chronic HI (AS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area A)

*HARP - HRACalc v19044 3/17/2021 5:16:08 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\AS2F.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	0	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.81E-05	7440382	Arsenic	NonCancer	2.23E-01	2.23E-01	90.84%	0.00E+00	0.00E+00	0.00E+00	2.23E-01	2.23E-01	2.23E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.73E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	1.10E-03	0.00E+00	5.49E-05	0.00E+00	1.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.46E-06	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	5.60E-04	0.00E+00	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.29E-05	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.47E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.80E-06	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.53E-05	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.87E-05	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00195	7439965	Manganese	NonCancer	0.00E+00	2.17E-02	8.85%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.39E-06	7439976	Mercury	NonCancer	0.00E+00	3.00E-04	0.12%	0.00E+00	3.00E-04	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.86E-06	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.22E-05	7.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000165	7782492	Selenium	NonCancer	4.77E-04	4.77E-04	0.19%	0.00E+00	0.00E+00	4.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.12E-05	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									2.23E-01	2.45E-01	100.00%	1.10E-03	8.60E-04	5.32E-04	2.23E-01	2.25E-01	2.23E-01	0.00E+00	0.00E+00	0.00E+00	7.13E-04	0.00E+00	0.00E+00

Worker Chronic HI (CS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area C)

*HARP - HRACalc v19044 3/17/2021 5:16:50 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\CS2F.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	4.80E-06	79345	TetraClEth	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.82E-06	79005	1,1,2TriClE	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.77E-06	75343	1,1-DiClEtl	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000427	106990	1,3-Butadie	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.19E-06	106467	p-DiClBenz	NonCance	0.00E+00	5.23E-09	0.00%	0.00E+00	5.23E-09	5.23E-09	0.00E+00	5.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.52E-06	123911	1,4-Dioxan	NonCance	8.41E-10	0.00E+00	0.00%	0.00E+00	8.41E-10	8.41E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.23E-05	107131	Acrylonitrile	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.16E-06	107051	AllylChlor	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.15E-05	7440382	Arsenic	NonCance	9.95E-02	9.95E-02	87.83%	0.00E+00	0.00E+00	0.00E+00	9.95E-02	9.95E-02	9.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005779	71432	Benzene	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.63E-06	100447	Benzyl Chl	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.07E-05	7440417	Beryllium	NonCance	0.00E+00	0.00E+00	0.00%	1.53E-03	0.00E+00	7.62E-05	0.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.94E-05	7440439	Cadmium	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	4.46E-03	0.00E+00	0.00E+00	2.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.85E-05	75150	CS2	NonCance	0.00E+00	7.31E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	7.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.37E-06	56235	CCl4	NonCance	0.00E+00	1.09E-07	0.00%	0.00E+00	0.00E+00	1.09E-07	1.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.20E-06	108907	Chlorobenz	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	3.20E-09	3.20E-09	3.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-06	67663	Chloroform	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	1.13E-08	1.13E-08	1.13E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.69E-06	18540299	Cr(VI)	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-06	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00022	7440508	Copper	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000403	100414	Ethyl Benz	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	2.02E-07	2.02E-07	2.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-07	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.85E-06	75003	Ethyl Chlor	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	6.16E-11	6.16E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.36E-06	106934	EDB	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	6.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.83E-06	107062	EDC	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	7.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.08E-05	67630	Isopropyl A	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	1.55E-09	0.00E+00	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000211	7439921	Lead	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000863	7439965	Manganese	NonCance	0.00E+00	9.59E-03	8.47%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.27E-05	7439976	Mercury	NonCance	0.00E+00	4.11E-03	3.63%	0.00E+00	4.11E-03	0.00E+00	4.11E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000227	67561	Methanol	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.71E-06	74839	Methyl Bro	NonCance	0.00E+00	5.42E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	5.42E-07	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.82E-06	71556	1,1,1-TCA	NonCance	0.00E+00	3.82E-09	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00024	78933	MEK	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.52E-06	1634044	Me t-Butylk	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	3.16E-10	3.16E-10	0.00E+00	0.00E+00	0.00E+00	3.16E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.86E-06	75092	Methylene	NonCance	1.22E-08	1.22E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00035	91203	Naphthaler	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000544	110543	Hexane	NonCance	0.00E+00	7.77E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000457	7440020	Nickel	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.65E-04	3.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.26E-02	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000112	106445	p-Cresol	NonCance	0.00E+00	1.87E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.74E-06	127184	Perc	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	1.35E-07	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000207	108952	Phenol	NonCance	1.04E-06	1.04E-06	0.00%	0.00E+00	1.04E-06	1.04E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00609	115071	Propylene	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.15E-05	7782492	Selenium	NonCance	6.21E-05	6.21E-05	0.05%	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000128	100425	Styrene	NonCance	0.00E+00	1.43E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003844	108883	Toluene	NonCance	0.00E+00	1.28E-05	0.01%	0.00E+00	0.00E+00	0.00E+00	1.28E-05	1.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.76E-06	79016	TCE	NonCance	0.00E+00	6.26E-09	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.78E-07	7440622	Vanadium	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.93E-06	108054	Vinyl Aceta	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.79E-06	75014	Vinyl Chlor	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.77E-06	75354	Vinylid Chl	NonCance	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000703	1330207	Xylenes	NonCance	0.00E+00	1.00E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-06	0.00E+00	1.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									9.95E-02	1.13E-01	100.00%	1.53E-03	8.57E-03	1.40E-04	1.04E-01	1.37E-01	9.95E-02	1.01E-06	0.00E+00	2.02E-07	3.46E-02	0.00E+00	0.00E+00

Worker Chronic HI (B4S2 - Pouring, Cooling, Shakeout S2: Baghouse 4)

*HARP - HRACalc v19044 3/17/2021 5:15:26 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B4S2.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	9.25E-05	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.36E-05	79005	1,1,2TriCle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.51E-05	75343	1,1-DiClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004266	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.13E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.13E-05	106467	p-DiClBenz	NonCancer	0.00E+00	1.02E-07	0.00%	0.00E+00	1.02E-07	1.02E-07	0.00E+00	1.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.88E-05	123911	1,4-Dioxan	NonCancer	1.63E-08	0.00E+00	0.00%	0.00E+00	1.63E-08	1.63E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000129	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.20E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.96E-05	7440382	Arsenic	NonCancer	9.05E-02	9.05E-02	93.36%	0.00E+00	0.00E+00	0.00E+00	9.05E-02	9.05E-02	9.05E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.049161	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-02	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.02E-05	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.75E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	1.39E-03	0.00E+00	6.92E-05	0.00E+00	1.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.36E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.02E-03	0.00E+00	0.00E+00	6.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000805	75150	CS2	NonCancer	0.00E+00	1.01E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	1.01E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.48E-05	56235	CCl4	NonCancer	0.00E+00	2.12E-06	0.00%	0.00E+00	0.00E+00	2.12E-06	2.12E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.25E-05	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.25E-08	6.25E-08	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.59E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.20E-07	2.20E-07	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.54E-06	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-06	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.73E-05	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00343	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.72E-06	1.72E-06	1.72E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-06	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.60E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.20E-09	1.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000104	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.48E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.37E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00056	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	8.00E-08	0.00E+00	8.00E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.27E-05	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000236	7439965	Manganese	NonCancer	0.00E+00	2.62E-03	2.70%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.88E-05	7439976	Mercury	NonCancer	0.00E+00	3.62E-03	3.73%	0.00E+00	3.62E-03	0.00E+00	3.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005065	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.27E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.22E-05	74839	Methyl Bro	NonCancer	0.00E+00	1.04E-05	0.01%	0.00E+00	0.00E+00	0.00E+00	1.04E-05	1.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.36E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	7.36E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005374	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.88E-05	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.10E-09	6.10E-09	0.00E+00	0.00E+00	0.00E+00	6.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.16E-05	75092	Methylene	NonCancer	2.29E-07	2.29E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.003463	110543	Hexane	NonCancer	0.00E+00	4.95E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000585	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	7.23E-04	4.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-02	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004829	106445	p-Cresol	NonCancer	0.00E+00	8.05E-06	0.01%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.16E-05	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.62E-06	2.62E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.035237	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.96E-05	7782492	Selenium	NonCancer	5.65E-05	5.65E-05	0.06%	0.00E+00	0.00E+00	5.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.0008	100425	Styrene	NonCancer	0.00E+00	8.89E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.033723	108883	Toluene	NonCancer	0.00E+00	1.12E-04	0.12%	0.00E+00	0.00E+00	0.00E+00	1.12E-04	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.28E-05	79016	TCE	NonCancer	0.00E+00	1.21E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.85E-08	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.33E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.42E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.39E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	7.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006956	1330207	Xylenes	NonCancer	0.00E+00	9.94E-06	0.01%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.94E-06	0.00E+00	9.94E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									9.06E-02	9.70E-02	100.00%	1.39E-03	4.65E-03	1.33E-04	9.73E-02	1.35E-01	9.05E-02	1.01E-05	0.00E+00	1.72E-06	5.82E-02	0.00E+00	0.00E+00

Worker Chronic HI (B5S2 - Pouring, Cooling, Shakeout S2: Baghouse 5)

*HARP - HRACalc v19044 3/17/2021 5:15:47 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B5S2.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	5.88E-05	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.67E-05	79005	1,1,2TriCle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-05	75343	1,1-DiClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.005231	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.13E-05	106467	p-DiClBenz	NonCancer	0.00E+00	6.41E-08	0.00%	0.00E+00	6.41E-08	6.41E-08	0.00E+00	6.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.09E-05	123911	1,4-Dioxan	NonCancer	1.03E-08	0.00E+00	0.00%	0.00E+00	1.03E-08	1.03E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000151	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.64E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.31E-06	7440382	Arsenic	NonCancer	2.46E-02	2.46E-02	87.23%	0.00E+00	0.00E+00	0.00E+00	2.46E-02	2.46E-02	2.46E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.070756	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-02	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.45E-05	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.66E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	3.79E-04	0.00E+00	1.88E-05	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.47E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.10E-03	0.00E+00	0.00E+00	7.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000716	75150	CS2	NonCancer	0.00E+00	8.95E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	8.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.35E-05	56235	CCl4	NonCancer	0.00E+00	1.34E-06	0.00%	0.00E+00	0.00E+00	1.34E-06	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.92E-05	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.92E-08	3.92E-08	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.15E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.38E-07	1.38E-07	1.38E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.16E-06	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.89E-07	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.45E-05	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00494	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.47E-06	2.47E-06	2.47E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.26E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	7.54E-10	7.54E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.56E-05	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	8.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.47E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	8.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000132	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.89E-08	0.00E+00	1.89E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.22E-05	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000213	7439965	Manganese	NonCancer	0.00E+00	2.37E-03	8.41%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.08E-06	7439976	Mercury	NonCancer	0.00E+00	1.02E-03	3.60%	0.00E+00	1.02E-03	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002779	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	6.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.32E-05	74839	Methyl Bro	NonCancer	0.00E+00	6.63E-06	0.02%	0.00E+00	0.00E+00	0.00E+00	6.63E-06	6.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.67E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	4.67E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002943	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.09E-05	1634044	Me t-Butyle	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.86E-09	3.86E-09	0.00E+00	0.00E+00	0.00E+00	3.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.96E-05	75092	Methylene	NonCancer	1.49E-07	1.49E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.004284	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.006663	110543	Hexane	NonCancer	0.00E+00	9.52E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000113	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.40E-04	8.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-03	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001377	106445	p-Cresol	NonCancer	0.00E+00	2.29E-06	0.01%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.81E-05	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.66E-06	1.66E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.002536	108952	Phenol	NonCancer	1.27E-05	1.27E-05	0.04%	0.00E+00	1.27E-05	1.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.074568	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.31E-06	7782492	Selenium	NonCancer	1.53E-05	1.53E-05	0.05%	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001573	100425	Styrene	NonCancer	0.00E+00	1.75E-06	0.01%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.047062	108883	Toluene	NonCancer	0.00E+00	1.57E-04	0.56%	0.00E+00	0.00E+00	0.00E+00	1.57E-04	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.60E-05	79016	TCE	NonCancer	0.00E+00	7.66E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.56E-07	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.03E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.19E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.39E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	4.85E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00861	1330207	Xylenes	NonCancer	0.00E+00	1.23E-05	0.04%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-05	0.00E+00	1.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									2.46E-02	2.82E-02	100.00%	3.79E-04	2.14E-03	5.32E-05	2.86E-02	3.45E-02	2.46E-02	1.24E-05	0.00E+00	2.47E-06	3.17E-02	0.00E+00	0.00E+00

Worker Chronic HI (S1 - Cupola: Stack Emissions)

*HARP - HRACalc v19044 3/17/2021 5:14:23 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	0.000188	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000121	79005	1,1,2TriClE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.22E-05	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.24E-05	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	6.20E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000147	106467	p-DiClBenz	NonCancer	0.00E+00	1.84E-07	0.00%	0.00E+00	1.84E-07	1.84E-07	0.00E+00	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.55E-05	123911	1,4-Dioxan	NonCancer	1.85E-08	0.00E+00	0.00%	0.00E+00	1.85E-08	1.85E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000253	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000242	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.76E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.06E-06	7440382	Arsenic	NonCancer	4.93E-03	4.93E-03	34.03%	0.00E+00	0.00E+00	0.00E+00	4.93E-03	4.93E-03	4.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000762	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00011	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.60E-07	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	2.28E-05	0.00E+00	1.13E-06	0.00E+00	2.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.28E-07	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.72E-05	0.00E+00	0.00E+00	3.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.33E-05	75150	CS2	NonCancer	0.00E+00	7.92E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	7.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000161	56235	CCl4	NonCancer	0.00E+00	4.02E-06	0.03%	0.00E+00	0.00E+00	4.02E-06	4.02E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000184	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.84E-07	1.84E-07	1.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.74E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	9.14E-08	9.14E-08	9.14E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.94E-07	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.64E-05	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00013	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.48E-08	6.48E-08	6.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.48E-08	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.50E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	5.01E-10	5.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000236	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.29E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	5.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001101	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.42E-05	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	7.74E-09	0.00E+00	7.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000166	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000148	7439965	Manganese	NonCancer	0.00E+00	1.64E-03	11.34%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.25E-05	7439976	Mercury	NonCancer	0.00E+00	7.86E-03	54.28%	0.00E+00	7.86E-03	0.00E+00	7.86E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.25E-05	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.81E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000158	74839	Methyl Bro	NonCancer	0.00E+00	3.16E-05	0.22%	0.00E+00	0.00E+00	0.00E+00	3.16E-05	3.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.07E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	3.07E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000114	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.02E-05	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	2.53E-09	2.53E-09	0.00E+00	0.00E+00	0.00E+00	2.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.44E-05	75092	Methylene	NonCancer	1.86E-07	1.86E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000564	110543	Hexane	NonCancer	0.00E+00	8.06E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.41E-06	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.74E-06	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	9.62E-10	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.68E-04	3.68E-04	3.68E-04	0.00E+00	0.00E+00	0.00E+00	3.68E-04	3.68E-04	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000184	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	5.26E-06	5.26E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.00133	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.48E-06	7782492	Selenium	NonCancer	1.01E-05	1.01E-05	0.07%	0.00E+00	0.00E+00	1.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.51E-05	100425	Styrene	NonCancer	0.00E+00	8.34E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.001033	108883	Toluene	NonCancer	0.00E+00	3.44E-06	0.02%	0.00E+00	0.00E+00	0.00E+00	3.44E-06	3.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000118	79016	TCE	NonCancer	0.00E+00	1.97E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.49E-07	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	3.79E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.75E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.22E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	7.90E-05	1330207	Xylenes	NonCancer	0.00E+00	1.13E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-07	0.00E+00	1.13E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									4.94E-03	1.45E-02	100.00%	2.28E-05	7.91E-03	3.90E-04	1.35E-02	6.38E-03	4.93E-03	3.12E-07	0.00E+00	3.68E-04	7.23E-04	0.00E+00	0.00E+00

Worker Chronic HI (B2S2 - Pouring, Cooling, Shakeout S2: Baghouse 2)

*HARP - HRACalc v19044 3/17/2021 5:15:05 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B2S2.WkrChCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
74	ALL		571141	4178252	0	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79005	1,1,2TriClE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106467	p-DiClBenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	123911	1,4-Dioxan	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.60E-06	7440382	Arsenic	NonCancer	1.20E-02	1.20E-02	85.73%	0.00E+00	0.00E+00	0.00E+00	1.20E-02	1.20E-02	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.18E-07	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	5.97E-05	0.00E+00	2.97E-06	0.00E+00	5.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	4.03E-07	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.02E-05	0.00E+00	0.00E+00	2.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75150	CS2	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	56235	CCl4	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.99E-07	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.76E-07	0.00E+00	0.00E+00
74	ALL		571141	4178252	2.45E-06	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.55E-06	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0.000105	7439965	Manganese	NonCancer	0.00E+00	1.17E-03	8.35%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	6.39E-06	7439976	Mercury	NonCancer	0.00E+00	8.04E-04	5.73%	0.00E+00	8.04E-04	0.00E+00	8.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	74839	Methyl Bro	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	71556	1,1,1-TCA	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75092	Methylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	110543	Hexane	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	5.33E-07	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	6.59E-07	3.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.81E-05	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	106445	p-Cresol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108952	Phenol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	8.92E-06	7782492	Selenium	NonCancer	2.58E-05	2.58E-05	0.18%	0.00E+00	0.00E+00	2.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	100425	Styrene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108883	Toluene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	79016	TCE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	1.69E-06	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74	ALL		571141	4178252	0	1330207	Xylenes	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									1.20E-02	1.40E-02	100.00%	5.97E-05	8.34E-04	2.87E-05	1.28E-02	1.21E-02	1.20E-02	0.00E+00	0.00E+00	0.00E+00	3.85E-05	0.00E+00	0.00E+00

16. Appendix G – HARP2 Output: Acute HI by Significant Source

DRAFT

Acute HI (Facility, Corrected for Model Scalars)

*HARP - HRACalc v19044 4/5/2021 9:28:12 AM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\AC_FIX\hra\PMIHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	SCENARIO	CV	CNS	IMMUN	DETAILS	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
100	ALL		570961	4178292	0.0739349	79345	TetraClEthane	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0515085	79005	1,1,2TriClEthar	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0172636	75343	1,1-DiClEthane	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.589907	106990	1,3-Butadiene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	2.41E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0601498	106467	p-DiClBenzene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0276285	123911	1,4-Dioxane	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	9.21E-06	0.00E+00	9.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0133145	75070	Acetaldehyde	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.83E-05	0.00E+00	2.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0704676	107028	Acrolein	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.82E-02	0.00E+00	2.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.1094719	107131	Acrylonitrile	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0159013	107051	AllylChlor	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.1032177	7664417	NH3	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	3.23E-05	0.00E+00	3.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0535916	7440382	Arsenic	NonCancer.	2.68E-01	2.68E-01	0.00E+00	0.00%	0.00E+00	0.00E+00	2.68E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	20.39604	71432	Benzene	NonCancer.	0.00E+00	0.00E+00	7.55E-01	12.99%	0.00E+00	0.00E+00	7.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-01	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0475099	100447	Benzyl Chloride	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0202183	7440417	Beryllium	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.2142779	7440439	Cadmium	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.2694733	75150	CS2	NonCancer.	0.00E+00	4.35E-05	0.00E+00	0.00%	0.00E+00	0.00E+00	4.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0646565	56235	CCl4	NonCancer.	0.00E+00	3.40E-05	0.00E+00	0.00%	0.00E+00	3.40E-05	3.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0647109	108907	Chlorobenzn	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0249094	67663	Chloroform	NonCancer.	0.00E+00	1.66E-04	0.00E+00	0.00%	0.00E+00	0.00E+00	1.66E-04	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.1290838	18540299	Cr(VI)	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.836598	7440508	Copper	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.84E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.437296	100414	Ethyl Benzene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0136017	75003	Ethyl Chloride	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0892864	106934	EDB	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0207539	107062	EDC	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.763351	111762	EGBE	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	3.75E-04	0.00E+00	3.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.5117611	50000	Formaldehyde	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	32.2402	67630	Isopropyl Alcoh	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.01E-02	0.00E+00	1.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	2.883059	7439921	Lead	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	8.691002	7439965	Manganese	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.3130598	7439976	Mercury	NonCancer.	0.00E+00	5.22E-01	0.00E+00	0.00%	0.00E+00	0.00E+00	5.22E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.315187	67561	Methanol	NonCancer.	0.00E+00	4.70E-05	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0552216	74839	Methyl Bromide	NonCancer.	0.00E+00	1.42E-05	0.00E+00	0.00%	0.00E+00	0.00E+00	1.42E-05	1.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0279098	71556	1,1,1-TCA	NonCancer.	0.00E+00	4.10E-07	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	34.32962	78933	MEK	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.64E-03	0.00E+00	2.64E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0184623	1634044	Me t-ButylEther	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0443871	75092	Methylene Chlo	NonCancer.	3.17E-06	3.17E-06	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.7346687	91203	Naphthalene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	3.560439	110543	Hexane	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.011593	7440020	Nickel	NonCancer.	0.00E+00	0.00E+00	5.06E+00	87.01%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	6.565544	9901	DieselExhPM	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	7.47E-08	1746016	2,3,7,8-TCDD	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	1.017922	106445	p-Cresol	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0726492	127184	Perc	NonCancer.	0.00E+00	3.63E-06	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	3.63E-06	0.00E+00	3.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.4343263	108952	Phenol	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	7.49E-05	0.00E+00	7.49E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	19.04647	115071	Propylene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.114212	7782492	Selenium	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.4183739	100425	Styrene	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.99E-05	1.99E-05	0.00E+00	1.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	13.81829	108883	Toluene	NonCancer.	0.00E+00	3.73E-04	0.00E+00	0.00%	0.00E+00	0.00E+00	3.73E-04	3.73E-04	0.00E+00	3.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0503891	79016	TCE	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0130751	7440622	Vanadium	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0352823	108054	Vinyl Acetate	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0242302	75014	Vinyl Chloride	NonCancer.	0.00E+00	1.35E-07	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.35E-07	0.00E+00	1.35E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	0.0203158	75354	Vinylid Chlorid	NonCancer.	0.00E+00	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
100	ALL		570961	4178292	2.635213	1330207	Xylenes	NonCancer.	0.00E+00	1.20E-04	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									2.68E-01	7.91E-01	5.81E+00	100.00%	0.00%	3.40E-05	1.55E+00	6.11E-02	0.00E+00	5.19E-02	0.00E+00	0.00E+00	7.55E-01	0.00E+00	0.00E+00

Acute HI Rank (Significant Sources, Corrected for Model Scalars)

*HARP - HRACalc v19044 4/5/2021 10:13:59 AM - Acute Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\AC_FIX\hra\S1.PMICntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	SCENARIO	FACTOR	IMMUN	COR-IMM	DETAILS
BS2F	100	ALL		570961	4178292	NonCancer.	0.46	8.75E+00	4.02E+00	69.20%
B4S2	100	ALL		570961	4178292	NonCancer.	0.46	1.39E+00	6.38E-01	10.98%
CS2F	100	ALL		570961	4178292	NonCancer.	0.46	1.19E+00	5.49E-01	9.45%
B5S2	100	ALL		570961	4178292	NonCancer.	0.46	1.06E+00	4.89E-01	8.42%
F3	100	ALL		570961	4178292	NonCancer.	0.46	8.75E-02	4.02E-02	0.69%
F1	100	ALL		570961	4178292	NonCancer.	0.46	7.88E-02	3.62E-02	0.62%
F25	100	ALL		570961	4178292	NonCancer.	0.46	1.43E-02	6.57E-03	0.11%
AS2F	100	ALL		570961	4178292	NonCancer.	0.46	1.38E-02	6.36E-03	0.11%
F64	100	ALL		570961	4178292	NonCancer.	0.46	1.15E-02	5.27E-03	0.09%
S46	100	ALL		570961	4178292	NonCancer.	0.46	9.92E-03	4.56E-03	0.08%
S1	100	ALL		570961	4178292	NonCancer.	0.46	6.55E-03	3.01E-03	0.05%
S3	100	ALL		570961	4178292	NonCancer.	0.46	5.88E-03	2.71E-03	0.05%
S7	100	ALL		570961	4178292	NonCancer.	0.46	5.51E-03	2.54E-03	0.04%
S9	100	ALL		570961	4178292	NonCancer.	0.46	3.57E-03	1.64E-03	0.03%
S10	100	ALL		570961	4178292	NonCancer.	0.46	2.38E-03	1.10E-03	0.02%
S64	100	ALL		570961	4178292	NonCancer.	0.46	1.65E-03	7.60E-04	0.01%
F4	100	ALL		570961	4178292	NonCancer.	0.46	1.49E-03	6.87E-04	0.01%
S25	100	ALL		570961	4178292	NonCancer.	0.46	1.11E-03	5.10E-04	0.01%
S4	100	ALL		570961	4178292	NonCancer.	0.46	9.96E-04	4.58E-04	0.01%
B2S2	100	ALL		570961	4178292	NonCancer.	0.46	7.24E-04	3.33E-04	0.01%
S49	100	ALL		570961	4178292	NonCancer.	0.46	7.24E-04	3.33E-04	0.01%
S37	100	ALL		570961	4178292	NonCancer.	0.46	4.79E-04	2.20E-04	0.00%
S31	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S32	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S47	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S51	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S5354	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S55	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
S5657	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
PCV	100	ALL		570961	4178292	NonCancer.	0.46	0.00E+00	0.00E+00	0.00%
									5.81E+00	100.00%

DRAFT

Acute HI (BS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area B, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:25:11 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\BS2F.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0.0055034	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0043927	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0020913	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.254341	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.004848	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0029118	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0076547	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0025015	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0577468	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.931204	71432	Benzene	0.46	1.09E-01	4.99E-02	1.24%
100	ALL		570961	4178292	0.0041876	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0287678	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0401249	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0479797	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0050531	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0037273	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0039324	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0093058	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1693459	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2045147	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0021463	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0061538	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.003267	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0333707	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1259935	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.6960121	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0850117	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.3020236	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0031119	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0043927	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.3204025	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0029118	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0054534	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2064544	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.727329	7440020	Nickel	0.46	8.64E+00	3.97E+00	98.76%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2879333	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0054534	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.100995	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0577468	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0476795	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.010736	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0043377	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0002021	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0055534	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0020413	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.003217	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.4147469	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
										4.02E+00	100.00%

DRAFT

Acute HI (B4S2 - Pouring, Cooling, Shakeout S2: Baghouse 4, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:24:32 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B4S2.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0.0270465	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0215371	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0102677	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.247647	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0237909	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0142746	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0376481	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0122711	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0057198	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	14.37874	71432	Benzene	0.46	5.33E-01	2.45E-01	38.37%
100	ALL		570961	4178292	0.0205353	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0028499	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0039768	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.235405	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0247927	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0182815	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0192832	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0009216	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0167736	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.003226	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0105181	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0303021	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0160276	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1637818	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0124795	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0689394	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0084203	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.481549	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0152763	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0215371	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.571704	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0142746	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0267961	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.012743	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1710904	7440020	Nickel	0.46	8.55E-01	3.94E-01	61.63%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.41243	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0267961	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	10.30623	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0057198	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2339024	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	9.863471	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0212866	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.00E-05	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.027297	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0100172	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0157771	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.0345	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
									1.39E+00	6.38E-01	100.00%

DRAFT

Acute HI (CS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area C, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:25:24 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\CS2F.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0.0022781	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0018116	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0013136	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2026156	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0019862	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0011963	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0058384	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0010217	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0102745	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.740831	71432	Benzene	0.46	1.02E-01	4.67E-02	8.50%
100	ALL		570961	4178292	0.0017229	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0051229	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0284193	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0277325	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0020721	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0015197	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0016056	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0022438	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1053347	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1913429	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0008758	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0025414	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0013423	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0051229	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1010177	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.4127052	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0156263	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1076449	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.001285	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0018116	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1140114	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0011963	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0023067	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.1659358	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2581029	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2184403	7440020	Nickel	0.46	1.09E+00	5.02E-01	91.50%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0533262	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0022495	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0982413	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.888485	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0102745	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.060919	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.823015	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0017801	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0001328	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0023354	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0008471	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0013136	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.3335068	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
									1.19E+00	5.49E-01	100.00%

DRAFT

Acute HI (B5S2 - Pouring, Cooling, Shakeout S2: Baghouse 5, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:24:45 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B5S2.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0.0196147	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0155912	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0113162	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.744701	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0171	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0103103	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0502941	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0088015	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0017854	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	23.601	71432	Benzene	0.46	8.74E-01	4.02E-01	82.15%
100	ALL		570961	4178292	0.0148368	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0008952	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0049389	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.2388968	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0178544	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0130765	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0138309	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0003903	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0183145	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.647634	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0075441	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0218779	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0115676	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.044175	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0175639	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0717569	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0027159	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.9269198	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0110647	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0155912	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.9817404	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0103103	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0198662	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	1.428855	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.222495	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0379801	7440020	Nickel	0.46	1.90E-01	8.74E-02	17.85%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.4591849	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0193632	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.8459463	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	24.87243	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0017854	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.5245672	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	15.69779	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0153397	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.31E-05	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0201176	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0072926	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0113162	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	2.871792	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
									1.06E+00	4.89E-01	100.00%

DRAFT

Acute HI (AS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area A, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:24:58 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\AS2F.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0134968	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	71432	Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0021688	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0020925	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0036146	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0127009	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0080583	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.547156	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0006699	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0027657	7440020	Nickel	0.46	1.38E-02	6.36E-03	100.00%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0463312	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0087547	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
									1.38E-02	6.36E-03	100.00%

DRAFT

Acute HI (B2S2 - Pouring, Cooling, Shakeout S2: Baghouse 2, Corrected for Model Scalars)

*HARP - HRACalc v19044 3/18/2021 12:24:18 PM - Acute Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B2S2.PMICntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	FACTOR	IMMUN	COR-IMM	DETAILS
100	ALL		570961	4178292	0	79345	TetraClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	79005	1,1,2TriClEthar	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75343	1,1-DiClEthane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106990	1,3-Butadiene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106467	p-DiClBenzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	123911	1,4-Dioxane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75070	Acetaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107028	Acrolein	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107131	Acrylonitrile	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107051	AllylChlor	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	7664417	NH3	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0007062	7440382	Arsenic	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	71432	Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100447	Benzyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0001136	7440417	Beryllium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0001096	7440439	Cadmium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75150	CS2	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	56235	CCl4	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108907	Chlorobenzn	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67663	Chloroform	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0001901	18540299	Cr(VI)	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0006655	7440508	Copper	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100414	Ethyl Benzene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75003	Ethyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106934	EDB	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	107062	EDC	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	111762	EGBE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	50000	Formaldehyde	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67630	Isopropyl Alcoh	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0004224	7439921	Lead	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0286568	7439965	Manganese	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0017384	7439976	Mercury	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	67561	Methanol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	74839	Methyl Bromide	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	71556	1,1,1-TCA	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	78933	MEK	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1634044	Me t-ButylEther	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75092	Methylene Chlo	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	91203	Naphthalene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	110543	Hexane	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0001449	7440020	Nickel	0.46	7.24E-04	3.33E-04	100.00%
100	ALL		570961	4178292	0	9901	DieselExhPM	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1746016	2,3,7,8-TCDD	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	106445	p-Cresol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	127184	Perc	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108952	Phenol	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	115071	Propylene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0024266	7782492	Selenium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	100425	Styrene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108883	Toluene	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	79016	TCE	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0.0004572	7440622	Vanadium	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	108054	Vinyl Acetate	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75014	Vinyl Chloride	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	75354	Vinylid Chlorid	0.46	0.00E+00	0.00E+00	0.00%
100	ALL		570961	4178292	0	1330207	Xylenes	0.46	0.00E+00	0.00E+00	0.00%
									7.24E-04	3.33E-04	100.00%

DRAFT

17.Appendix H – HARP2 Output: Student Cancer Risk by Significant Source

DRAFT

Student Cancer Risk (Facility)

*HARP - HRACalc v19044 3/16/2021 5:04:12 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\StuCaHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	6.19E-05	79345	TetraClEtha	5.19E-09	9YrCancerI	0.08%	5.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.26E-05	79005	1,1,2TriClEt	1.02E-09	9YrCancerI	0.02%	1.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.31E-05	75343	1,1-DiClEth	3.14E-11	9YrCancerI	0.00%	3.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0010841	106990	1,3-Butadie	2.73E-07	9YrCancerI	4.14%	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.00E-05	106467	p-DiClBenz	8.38E-10	9YrCancerI	0.01%	8.38E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.23E-05	123911	1,4-Dioxane	2.52E-10	9YrCancerI	0.00%	2.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.49E-06	75070	Acetaldehyd	2.30E-11	9YrCancerI	0.00%	2.30E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.19E-05	107028	Acrolein	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.91E-05	107131	Acrylonitrile	3.73E-08	9YrCancerI	0.57%	3.73E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.20E-05	107051	AllylChlor	1.06E-10	9YrCancerI	0.00%	1.06E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002439	7664417	NH3	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.61E-05	7440382	Arsenic	3.99E-07	9YrCancerI	6.07%	8.10E-08	2.64E-07	5.39E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0138169	71432	Benzene	5.79E-07	9YrCancerI	8.80%	5.79E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.91E-05	100447	Benzyl Chlo	2.79E-09	9YrCancerI	0.04%	2.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.57E-06	7440417	Beryllium	1.96E-08	9YrCancerI	0.30%	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.73E-05	7440439	Cadmium	2.34E-07	9YrCancerI	3.56%	2.34E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001887	75150	CS2	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.39E-05	56235	CCl4	3.39E-09	9YrCancerI	0.05%	3.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.53E-05	108907	Chlorobenz	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.88E-05	67663	Chloroform	1.50E-10	9YrCancerI	0.00%	1.50E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.08E-05	18540299	Cr(VI)	4.56E-06	9YrCancerI	69.30%	4.44E-06	1.14E-07	7.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003138	7440508	Copper	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000983	100414	Ethyl Benze	3.58E-09	9YrCancerI	0.05%	3.58E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.03E-05	75003	Ethyl Chlori	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.52E-05	106934	EDB	7.88E-09	9YrCancerI	0.12%	7.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.57E-05	107062	EDC	4.73E-10	9YrCancerI	0.01%	4.73E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0041668	111762	EGBE	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002898	50000	Formaldehy	2.55E-09	9YrCancerI	0.04%	2.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0043369	67630	Isopropyl Al	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0006193	7439921	Lead	7.89E-08	9YrCancerI	1.20%	1.09E-08	5.76E-08	5.87E-09	4.52E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0016056	7439965	Manganese	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000125	7439976	Mercury	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0009172	67561	Methanol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.72E-05	74839	Methyl Bror	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.11E-05	71556	1,1,1-TCA	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0053329	78933	MEK	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.39E-05	1634044	Me t-ButylE	1.05E-11	9YrCancerI	0.00%	1.05E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.49E-05	75092	Methylene (	5.13E-11	9YrCancerI	0.00%	5.13E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0004795	91203	Naphthalen	2.41E-08	9YrCancerI	0.37%	2.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0019877	110543	Hexane	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002611	7440020	Nickel	9.95E-08	9YrCancerI	1.51%	9.95E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.24E-05	9901	DieselExhP	1.96E-08	9YrCancerI	0.30%	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.07E-10	1746016	2,3,7,8-TCD	2.24E-07	9YrCancerI	3.40%	5.83E-09	3.29E-08	7.81E-09	1.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0007157	106445	p-Cresol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.08E-05	127184	Perc	5.35E-10	9YrCancerI	0.01%	5.35E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002836	108952	Phenol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0128457	115071	Propylene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.49E-05	7782492	Selenium	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002867	100425	Styrene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0094425	108883	Toluene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.16E-05	79016	TCE	1.22E-10	9YrCancerI	0.00%	1.22E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.64E-06	7440622	Vanadium	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.66E-05	108054	Vinyl Acetat	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.00E-05	75014	Vinyl Chlori	2.27E-09	9YrCancerI	0.03%	2.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.53E-05	75354	Vinylid Chlo	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0017964	1330207	Xylenes	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								6.58E-06		100.00%												

Student Cancer Risk Rank (Significant Sources)

*HARP - HRACalc v19044 3/19/2021 3:40:02 PM - Cancer Risk by Receptor and Source - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S1.StuCaCntHRAInput.hra

SRC	REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
PCV	967	ALL		571641	4178672	1.31E-06	9YrCancerH	19.86%	1.26E-06	3.98E-08	3.01E-09	6.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5354	967	ALL		571641	4178672	1.30E-06	9YrCancerH	19.72%	1.25E-06	3.95E-08	2.98E-09	6.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S5657	967	ALL		571641	4178672	9.62E-07	9YrCancerH	14.63%	9.30E-07	2.93E-08	2.21E-09	5.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B5S2	967	ALL		571641	4178672	5.50E-07	9YrCancerH	8.37%	5.38E-07	1.05E-08	2.00E-09	4.08E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B4S2	967	ALL		571641	4178672	5.15E-07	9YrCancerH	7.83%	4.70E-07	3.77E-08	7.43E-09	3.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
BS2F	967	ALL		571641	4178672	4.05E-07	9YrCancerH	6.16%	3.01E-07	8.71E-08	1.71E-08	7.93E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S55	967	ALL		571641	4178672	3.73E-07	9YrCancerH	5.67%	3.60E-07	1.14E-08	8.58E-10	1.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S1	967	ALL		571641	4178672	2.50E-07	9YrCancerH	3.80%	3.52E-08	3.54E-08	8.10E-09	1.71E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F3	967	ALL		571641	4178672	2.21E-07	9YrCancerH	3.36%	1.90E-07	2.67E-08	4.80E-09	9.52E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F1	967	ALL		571641	4178672	1.87E-07	9YrCancerH	2.85%	1.16E-07	5.50E-08	8.53E-09	8.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AS2F	967	ALL		571641	4178672	1.75E-07	9YrCancerH	2.66%	1.31E-07	3.67E-08	7.06E-09	8.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CS2F	967	ALL		571641	4178672	1.49E-07	9YrCancerH	2.26%	1.21E-07	2.32E-08	4.42E-09	9.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
B2S2	967	ALL		571641	4178672	3.53E-08	9YrCancerH	0.54%	2.65E-08	7.39E-09	1.42E-09	1.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S49	967	ALL		571641	4178672	3.53E-08	9YrCancerH	0.54%	2.65E-08	7.39E-09	1.42E-09	1.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S3	967	ALL		571641	4178672	2.61E-08	9YrCancerH	0.40%	2.24E-08	3.15E-09	5.67E-10	1.12E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S31	967	ALL		571641	4178672	1.96E-08	9YrCancerH	0.30%	1.96E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F4	967	ALL		571641	4178672	1.94E-08	9YrCancerH	0.30%	1.44E-08	4.23E-09	8.13E-10	4.47E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F25	967	ALL		571641	4178672	1.73E-08	9YrCancerH	0.26%	1.21E-08	4.39E-09	7.89E-10	5.35E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S4	967	ALL		571641	4178672	1.42E-08	9YrCancerH	0.22%	1.05E-08	3.09E-09	5.94E-10	3.26E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S25	967	ALL		571641	4178672	1.12E-08	9YrCancerH	0.17%	7.79E-09	2.82E-09	5.08E-10	3.44E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S46	967	ALL		571641	4178672	4.38E-09	9YrCancerH	0.07%	1.04E-09	2.78E-09	5.61E-10	5.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S37	967	ALL		571641	4178672	1.67E-09	9YrCancerH	0.03%	1.19E-09	3.96E-10	8.01E-11	4.34E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S10	967	ALL		571641	4178672	9.04E-10	9YrCancerH	0.01%	6.67E-10	1.97E-10	3.99E-11	2.17E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S9	967	ALL		571641	4178672	6.03E-10	9YrCancerH	0.01%	4.44E-10	1.31E-10	2.66E-11	1.44E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S7	967	ALL		571641	4178672	5.79E-10	9YrCancerH	0.01%	4.27E-10	1.26E-10	2.56E-11	1.38E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
F64	967	ALL		571641	4178672	4.14E-10	9YrCancerH	0.01%	2.89E-10	1.05E-10	1.88E-11	1.28E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S64	967	ALL		571641	4178672	3.85E-10	9YrCancerH	0.01%	2.69E-10	9.74E-11	1.75E-11	1.19E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S32	967	ALL		571641	4178672	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S47	967	ALL		571641	4178672	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
S51	967	ALL		571641	4178672	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
						6.58E-06		100.00%												

DRAFT

Student Cancer Risk (PCV - New Pipe Casting Roof Ventilation: 50% of Pipe Casting Fugitive Emissions)

*HARP - HRACalc v19044 3/19/2021 3:47:43 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\PCV.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440382	Arsenic	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440417	Beryllium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.35E-06	7440439	Cadmium	5.25E-08	9YrCancerH	4.02%	5.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.66E-06	18540299	Cr(VI)	1.24E-06	9YrCancerH	95.06%	1.21E-06	3.09E-08	2.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.63E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	9.51E-05	7439921	Lead	1.21E-08	9YrCancerH	0.93%	1.67E-09	8.84E-09	9.02E-10	6.94E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003411	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440020	Nickel	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.23E-07	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.31E-06		100.00%												

Student Cancer Risk (S5354 - Pipe Casting S53, S54: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/19/2021 3:46:53 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5354.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440382	Arsenic	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440417	Beryllium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.29E-06	7440439	Cadmium	5.21E-08	9YrCancerH	4.02%	5.21E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.62E-06	18540299	Cr(VI)	1.23E-06	9YrCancerH	95.06%	1.20E-06	3.07E-08	2.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.57E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	9.44E-05	7439921	Lead	1.20E-08	9YrCancerH	0.93%	1.66E-09	8.78E-09	8.96E-10	6.89E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003387	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440020	Nickel	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.17E-07	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.30E-06		100.00%												

Student Cancer Risk (S5657 - Pipe Casting S56, S57: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/19/2021 3:47:26 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S5657.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440382	Arsenic	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440417	Beryllium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.15E-06	7440439	Cadmium	3.86E-08	9YrCancerH	4.02%	3.86E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.17E-06	18540299	Cr(VI)	9.15E-07	9YrCancerH	95.06%	8.90E-07	2.28E-08	1.55E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.62E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.01E-05	7439921	Lead	8.92E-09	9YrCancerH	0.93%	1.23E-09	6.51E-09	6.64E-10	5.11E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002513	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440020	Nickel	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.06E-07	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								9.62E-07		100.00%												

Student Cancer Risk (B5S2 - Pouring, Cooling, Shakeout S2: Baghouse 5)

*HARP - HRACalc v19044 3/19/2021 3:41:11 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B5S2.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	6.30E-06	79345	TetraClEtha	5.28E-10	9YrCancerH	0.10%	5.28E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.00E-06	79005	1,1,2TriClEt	1.20E-10	9YrCancerH	0.02%	1.20E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.63E-06	75343	1,1-DiClEth	8.68E-12	9YrCancerH	0.00%	8.68E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0005601	106990	1,3-Butadie	1.41E-07	9YrCancerH	25.59%	1.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.49E-06	106467	p-DiClBenz	9.20E-11	9YrCancerH	0.02%	9.20E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.31E-06	123911	1,4-Dioxane	3.74E-11	9YrCancerH	0.01%	3.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.61E-05	107131	Acrylonitrile	6.76E-09	9YrCancerH	1.23%	6.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.83E-06	107051	AllylChlor	2.49E-11	9YrCancerH	0.00%	2.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.69E-07	7440382	Arsenic	1.41E-08	9YrCancerH	2.56%	2.86E-09	9.33E-09	1.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.007576	71432	Benzene	3.17E-07	9YrCancerH	57.68%	3.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.76E-06	100447	Benzyl Chlo	3.39E-10	9YrCancerH	0.06%	3.39E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.84E-07	7440417	Beryllium	1.00E-09	9YrCancerH	0.18%	1.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.57E-06	7440439	Cadmium	9.88E-09	9YrCancerH	1.80%	9.88E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.67E-05	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.73E-06	56235	CCl4	3.60E-10	9YrCancerH	0.07%	3.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.20E-06	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.44E-06	67663	Chloroform	3.53E-11	9YrCancerH	0.01%	3.53E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.24E-07	18540299	Cr(VI)	2.73E-08	9YrCancerH	4.96%	2.66E-08	6.80E-10	4.62E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.83E-06	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0005289	100414	Ethyl Benze	1.93E-09	9YrCancerH	0.35%	1.93E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.42E-06	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.02E-06	106934	EDB	7.36E-10	9YrCancerH	0.13%	7.36E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.71E-06	107062	EDC	1.12E-10	9YrCancerH	0.02%	1.12E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.42E-05	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.59E-06	7439921	Lead	7.12E-10	9YrCancerH	0.13%	9.84E-11	5.20E-10	5.30E-11	4.08E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.28E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.65E-07	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002975	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.55E-06	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.00E-06	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003151	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.31E-06	1634044	Me t-ButylE	2.50E-12	9YrCancerH	0.00%	2.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.38E-06	75092	Methylene (	9.35E-12	9YrCancerH	0.00%	9.35E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0004587	91203	Naphthalen	2.31E-08	9YrCancerH	4.19%	2.31E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0007134	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.21E-05	7440020	Nickel	4.61E-09	9YrCancerH	0.84%	4.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001474	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.22E-06	127184	Perc	5.47E-11	9YrCancerH	0.01%	5.47E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002716	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0079842	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.69E-07	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001684	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0050391	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.92E-06	79016	TCE	1.44E-11	9YrCancerH	0.00%	1.44E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.96E-08	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.46E-06	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.34E-06	75014	Vinyl Chlori	2.65E-10	9YrCancerH	0.05%	2.65E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.63E-06	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0009219	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								5.50E-07		100.00%												

Student Cancer Risk (B4S2 - Pouring, Cooling, Shakeout S2: Baghouse 4)

*HARP - HRACalc v19044 3/19/2021 3:40:54 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B4S2.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	1.03E-05	79345	TetraClEtha	8.62E-10	9YrCancerI	0.17%	8.62E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.19E-06	79005	1,1,2TriClEt	1.96E-10	9YrCancerI	0.04%	1.96E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.90E-06	75343	1,1-DiClEth	9.32E-12	9YrCancerI	0.00%	9.32E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0004743	106990	1,3-Butadie	1.19E-07	9YrCancerI	23.16%	1.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	9.04E-06	106467	p-DiClBenz	1.52E-10	9YrCancerI	0.03%	1.52E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.43E-06	123911	1,4-Dioxane	6.14E-11	9YrCancerI	0.01%	6.14E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.43E-05	107131	Acrylonitrile	6.00E-09	9YrCancerI	1.16%	6.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.66E-06	107051	AllylChlor	4.10E-11	9YrCancerI	0.01%	4.10E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.17E-06	7440382	Arsenic	5.39E-08	9YrCancerI	10.47%	1.09E-08	3.57E-08	7.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0054659	71432	Benzene	2.29E-07	9YrCancerI	44.49%	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.81E-06	100447	Benzyl Chlo	5.56E-10	9YrCancerI	0.11%	5.56E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.08E-06	7440417	Beryllium	3.82E-09	9YrCancerI	0.74%	3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.51E-06	7440439	Cadmium	9.50E-09	9YrCancerI	1.85%	9.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.95E-05	75150	CS2	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	9.42E-06	56235	CCl4	5.92E-10	9YrCancerI	0.12%	5.92E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.95E-06	108907	Chlorobenz	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.33E-06	67663	Chloroform	5.84E-11	9YrCancerI	0.01%	5.84E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.83E-07	18540299	Cr(VI)	6.20E-08	9YrCancerI	12.05%	6.04E-08	1.55E-09	1.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.38E-06	7440508	Copper	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003814	100414	Ethyl Benze	1.39E-09	9YrCancerI	0.27%	1.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.00E-06	75003	Ethyl Chlori	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.15E-05	106934	EDB	1.21E-09	9YrCancerI	0.23%	1.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.09E-06	107062	EDC	1.84E-10	9YrCancerI	0.04%	1.84E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.23E-05	67630	Isopropyl Al	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.74E-06	7439921	Lead	6.04E-10	9YrCancerI	0.12%	8.35E-11	4.41E-10	4.50E-11	3.46E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.62E-05	7439965	Manganese	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.20E-06	7439976	Mercury	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0005632	67561	Methanol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.81E-06	74839	Methyl Bror	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.19E-06	71556	1,1,1-TCA	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0005975	78933	MEK	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.43E-06	1634044	Me t-ButylE	4.09E-12	9YrCancerI	0.00%	4.09E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.02E-05	75092	Methylene (	1.49E-11	9YrCancerI	0.00%	1.49E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000385	110543	Hexane	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.50E-05	7440020	Nickel	2.48E-08	9YrCancerI	4.82%	2.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0005369	106445	p-Cresol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.02E-05	127184	Perc	8.96E-11	9YrCancerI	0.02%	8.96E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0039178	115071	Propylene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.17E-06	7782492	Selenium	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.89E-05	100425	Styrene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0037495	108883	Toluene	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.09E-06	79016	TCE	2.37E-11	9YrCancerI	0.00%	2.37E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.62E-09	7440622	Vanadium	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.04E-05	108054	Vinyl Acetat	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.81E-06	75014	Vinyl Chlori	4.31E-10	9YrCancerI	0.08%	4.31E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.00E-06	75354	Vinylid Chlo	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0007734	1330207	Xylenes	0.00E+00	9YrCancerI	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								5.15E-07		100.00%												

Student Cancer Risk (BS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area B)

*HARP - HRACalc v19044 3/19/2021 3:41:45 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\BS2F.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	4.75E-07	79345	TetraClEtha	3.98E-11	9YrCancerH	0.01%	3.98E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.78E-07	79005	1,1,2TriClEt	9.04E-12	9YrCancerH	0.00%	9.04E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.80E-07	75343	1,1-DiClEth	4.31E-13	9YrCancerH	0.00%	4.31E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.19E-05	106990	1,3-Butadie	5.51E-09	9YrCancerH	1.36%	5.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.18E-07	106467	p-DiClBenz	7.01E-12	9YrCancerH	0.00%	7.01E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.51E-07	123911	1,4-Dioxane	2.84E-12	9YrCancerH	0.00%	2.84E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.62E-07	107131	Acrylonitrile	2.77E-10	9YrCancerH	0.07%	2.77E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.16E-07	107051	AllylChlor	1.90E-12	9YrCancerH	0.00%	1.90E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.98E-06	7440382	Arsenic	1.23E-07	9YrCancerH	30.47%	2.50E-08	8.17E-08	1.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002527	71432	Benzene	1.06E-08	9YrCancerH	2.61%	1.06E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.61E-07	100447	Benzyl Chlo	2.57E-11	9YrCancerH	0.01%	2.57E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.48E-06	7440417	Beryllium	8.73E-09	9YrCancerH	2.16%	8.73E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.46E-06	7440439	Cadmium	2.17E-08	9YrCancerH	5.37%	2.17E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.14E-06	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.36E-07	56235	CCl4	2.74E-11	9YrCancerH	0.01%	2.74E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.21E-07	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.39E-07	67663	Chloroform	2.70E-12	9YrCancerH	0.00%	2.70E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.03E-07	18540299	Cr(VI)	1.76E-07	9YrCancerH	43.53%	1.72E-07	4.39E-09	2.99E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.46E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.76E-05	100414	Ethyl Benze	6.43E-11	9YrCancerH	0.02%	6.43E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.85E-07	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.33E-07	106934	EDB	5.58E-11	9YrCancerH	0.01%	5.58E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.82E-07	107062	EDC	8.50E-12	9YrCancerH	0.00%	8.50E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.88E-06	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.09E-05	7439921	Lead	1.38E-09	9YrCancerH	0.34%	1.91E-10	1.01E-09	1.03E-10	7.93E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.00E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.33E-06	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.60E-05	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.68E-07	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.78E-07	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.76E-05	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.51E-07	1634044	Me t-ButylE	1.89E-13	9YrCancerH	0.00%	1.89E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.71E-07	75092	Methylene (	6.91E-13	9YrCancerH	0.00%	6.91E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.78E-05	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001489	7440020	Nickel	5.68E-08	9YrCancerH	14.02%	5.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.48E-05	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.71E-07	127184	Perc	4.14E-12	9YrCancerH	0.00%	4.14E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001811	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.98E-06	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.11E-06	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0001733	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.74E-07	79016	TCE	1.10E-12	9YrCancerH	0.00%	1.10E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.74E-08	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.80E-07	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.76E-07	75014	Vinyl Chlori	1.99E-11	9YrCancerH	0.00%	1.99E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.77E-07	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.58E-05	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								4.05E-07		100.00%												

Student Cancer Risk (S55 - Pipe Casting S55: Fugitive Emissions 50%)

*HARP - HRACalc v19044 3/19/2021 3:47:10 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\S55.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440382	Arsenic	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440417	Beryllium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.38E-06	7440439	Cadmium	1.50E-08	9YrCancerH	4.02%	1.50E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.61E-06	18540299	Cr(VI)	3.54E-07	9YrCancerH	95.06%	3.45E-07	8.83E-09	6.00E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.18E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.71E-05	7439921	Lead	3.46E-09	9YrCancerH	0.93%	4.78E-10	2.52E-09	2.57E-10	1.98E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	9.73E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440020	Nickel	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.35E-07	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								3.73E-07		100.00%												

Student Cancer Risk (AS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area A)

*HARP - HRACalc v19044 3/19/2021 3:41:28 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\AS2F.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.05E-06	7440382	Arsenic	5.07E-08	9YrCancerH	28.96%	1.03E-08	3.36E-08	6.85E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.29E-07	7440417	Beryllium	1.16E-09	9YrCancerH	0.66%	1.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.17E-07	7440439	Cadmium	1.99E-09	9YrCancerH	1.14%	1.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.51E-07	18540299	Cr(VI)	1.21E-07	9YrCancerH	69.06%	1.18E-07	3.01E-09	2.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.93E-06	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.22E-06	7439921	Lead	1.56E-10	9YrCancerH	0.09%	2.15E-11	1.14E-10	1.16E-11	8.93E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.30E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.02E-07	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.20E-07	7440020	Nickel	1.60E-10	9YrCancerH	0.09%	1.60E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.03E-06	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.33E-06	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.75E-07		100.00%												

Student Cancer Risk (CS2F - Pouring, Cooling, Shakeout S2: Fugitive Emissions Area C)

*HARP - HRACalc v19044 3/19/2021 3:42:02 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\CS2F.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	2.80E-07	79345	TetraClEtha	2.35E-11	9YrCancerH	0.02%	2.35E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.23E-07	79005	1,1,2TriClEt	5.32E-12	9YrCancerH	0.00%	5.32E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.62E-07	75343	1,1-DiClEth	3.86E-13	9YrCancerH	0.00%	3.86E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.49E-05	106990	1,3-Butadie	6.27E-09	9YrCancerH	4.21%	6.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.44E-07	106467	p-DiClBenz	4.10E-12	9YrCancerH	0.00%	4.10E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.47E-07	123911	1,4-Dioxane	1.67E-12	9YrCancerH	0.00%	1.67E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.19E-07	107131	Acrylonitrile	3.01E-10	9YrCancerH	0.20%	3.01E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.26E-07	107051	AllylChlor	1.11E-12	9YrCancerH	0.00%	1.11E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.25E-06	7440382	Arsenic	3.11E-08	9YrCancerH	20.87%	6.31E-09	2.06E-08	4.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003374	71432	Benzene	1.41E-08	9YrCancerH	9.49%	1.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.12E-07	100447	Benzyl Chlo	1.51E-11	9YrCancerH	0.01%	1.51E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.27E-07	7440417	Beryllium	2.21E-09	9YrCancerH	1.48%	2.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.47E-06	7440439	Cadmium	2.18E-08	9YrCancerH	14.63%	2.18E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.42E-06	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.55E-07	56235	CCl4	1.60E-11	9YrCancerH	0.01%	1.60E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.87E-07	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.98E-07	67663	Chloroform	1.57E-12	9YrCancerH	0.00%	1.57E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.74E-07	18540299	Cr(VI)	6.02E-08	9YrCancerH	40.40%	5.86E-08	1.50E-09	1.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.29E-05	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.36E-05	100414	Ethyl Benze	8.59E-11	9YrCancerH	0.06%	8.59E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.08E-07	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.13E-07	106934	EDB	3.28E-11	9YrCancerH	0.02%	3.28E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.65E-07	107062	EDC	4.99E-12	9YrCancerH	0.00%	4.99E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.31E-07	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.23E-05	7439921	Lead	1.57E-09	9YrCancerH	1.05%	2.17E-10	1.15E-09	1.17E-10	9.00E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.04E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.91E-06	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.33E-05	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.58E-07	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.23E-07	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.40E-05	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.47E-07	1634044	Me t-ButylE	1.11E-13	9YrCancerH	0.00%	1.11E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.84E-07	75092	Methylene (	4.16E-13	9YrCancerH	0.00%	4.16E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.04E-05	91203	Naphthalen	1.03E-09	9YrCancerH	0.69%	1.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.18E-05	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.67E-05	7440020	Nickel	1.02E-08	9YrCancerH	6.83%	1.02E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.56E-06	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.77E-07	127184	Perc	2.44E-12	9YrCancerH	0.00%	2.44E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.21E-05	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0003556	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.25E-06	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.50E-06	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.0002244	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.19E-07	79016	TCE	6.43E-13	9YrCancerH	0.00%	6.43E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.62E-08	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.88E-07	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.04E-07	75014	Vinyl Chlori	1.18E-11	9YrCancerH	0.01%	1.18E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.62E-07	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.11E-05	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								1.49E-07		100.00%												

Student Cancer Risk (B2S2 - Pouring, Cooling, Shakeout S2: Baghouse 2)

*HARP - HRACalc v19044 3/19/2021 3:40:37 PM - Cancer Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\B2S2.StuCaCntHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBRE	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_F	MMILK_RIS	WATER_RI	FISH_RISK	CROP_RIS	BEEF_RISI	DAIRY_RIS	PIG_RISK	CHICKEN_	EGG_RISK
967	ALL		571641	4178672	0	79345	TetraClEtha	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79005	1,1,2TriClEt	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75343	1,1-DiClEth	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106990	1,3-Butadie	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106467	p-DiClBenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	123911	1,4-Dioxane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75070	Acetaldehyd	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107028	Acrolein	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107131	Acrylonitrile	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107051	AllylChlor	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	7664417	NH3	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.12E-07	7440382	Arsenic	1.02E-08	9YrCancerH	28.95%	2.07E-09	6.76E-09	1.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71432	Benzene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100447	Benzyl Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.63E-08	7440417	Beryllium	2.33E-10	9YrCancerH	0.66%	2.33E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.40E-08	7440439	Cadmium	4.02E-10	9YrCancerH	1.14%	4.02E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75150	CS2	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	56235	CCl4	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108907	Chlorobenz	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67663	Chloroform	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.11E-07	18540299	Cr(VI)	2.44E-08	9YrCancerH	69.06%	2.37E-08	6.07E-10	4.13E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.88E-07	7440508	Copper	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100414	Ethyl Benze	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75003	Ethyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106934	EDB	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	107062	EDC	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	111762	EGBE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	50000	Formaldehy	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67630	Isopropyl Al	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.47E-07	7439921	Lead	3.14E-11	9YrCancerH	0.09%	4.34E-12	2.29E-11	2.34E-12	1.80E-12	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.67E-05	7439965	Manganese	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.01E-06	7439976	Mercury	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	67561	Methanol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	74839	Methyl Bror	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	71556	1,1,1-TCA	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	78933	MEK	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1634044	Me t-ButylE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75092	Methylene (	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	91203	Naphthalen	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	110543	Hexane	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.46E-08	7440020	Nickel	3.22E-11	9YrCancerH	0.09%	3.22E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	9901	DieselExhP	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1746016	2,3,7,8-TCD	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	106445	p-Cresol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	127184	Perc	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108952	Phenol	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	115071	Propylene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.42E-06	7782492	Selenium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	100425	Styrene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108883	Toluene	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	79016	TCE	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.68E-07	7440622	Vanadium	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	108054	Vinyl Acetat	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75014	Vinyl Chlori	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	75354	Vinylid Chlo	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0	1330207	Xylenes	0.00E+00	9YrCancerH	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								3.53E-08		100.00%												

18.Appendix I – HARP2 Output: Student Chronic HI by Significant Source

DRAFT

Student Chronic HI (Facility - No Significant Sources)

*HARP - HRACalc v19044 3/16/2021 5:05:41 PM - Chronic Risk - Input File: C:\Plant 62 ABI Foundry\3_16_21\hra\StuChHRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBR	SCENARIO	CV	CNS	DETAILS	IMMUN	KIDNEY	GILV	REPRO/DI	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
967	ALL		571641	4178672	6.19E-05	79345	TetraClEth	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.26E-05	79005	1,1,2TriCIE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.31E-05	75343	1,1-DiClEtl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.001084	106990	1,3-Butadie	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.00E-05	106467	p-DiClBenz	NonCancer	0.00E+00	6.25E-08	0.00%	0.00E+00	6.25E-08	6.25E-08	0.00E+00	6.25E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.23E-05	123911	1,4-Dioxan	NonCancer	7.43E-09	0.00E+00	0.00%	0.00E+00	7.43E-09	7.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.49E-06	75070	Acetaldehy	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.19E-05	107028	Acrolein	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	8.91E-05	107131	Acrylonitrile	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.20E-05	107051	AllylChlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000244	7664417	NH3	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.61E-05	7440382	Arsenic	NonCancer	1.18E-01	1.18E-01	74.02%	0.00E+00	0.00E+00	0.00E+00	1.18E-01	1.18E-01	1.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.013817	71432	Benzene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.61E-03	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.91E-05	100447	Benzyl Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.57E-06	7440417	Beryllium	NonCancer	0.00E+00	0.00E+00	0.00%	7.96E-04	0.00E+00	6.67E-05	0.00E+00	7.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.73E-05	7440439	Cadmium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	3.56E-03	0.00E+00	0.00E+00	1.87E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000189	75150	CS2	NonCancer	0.00E+00	2.36E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	2.36E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.39E-05	56235	CCl4	NonCancer	0.00E+00	1.35E-06	0.00%	0.00E+00	0.00E+00	1.35E-06	1.35E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	5.53E-05	108907	Chlorobenz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	5.53E-08	5.53E-08	5.53E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.88E-05	67663	Chloroform	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.27E-08	6.27E-08	6.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.08E-05	18540299	Cr(VI)	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-05	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000314	7440508	Copper	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000983	100414	Ethyl Benz	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	4.92E-07	4.92E-07	4.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.92E-07	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.03E-05	75003	Ethyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.42E-10	3.42E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	7.52E-05	106934	EDB	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	9.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.57E-05	107062	EDC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	3.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.004167	111762	EGBE	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.00029	50000	Formaldeh	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.004337	67630	Isopropyl A	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	6.20E-07	0.00E+00	6.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000619	7439921	Lead	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.001606	7439965	Manganese	NonCancer	0.00E+00	1.78E-02	11.23%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000125	7439976	Mercury	NonCancer	0.00E+00	2.32E-02	14.62%	0.00E+00	2.32E-02	0.00E+00	2.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000917	67561	Methanol	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	2.29E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.72E-05	74839	Methyl Bro	NonCancer	0.00E+00	9.44E-06	0.01%	0.00E+00	0.00E+00	0.00E+00	9.44E-06	9.44E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.11E-05	71556	1,1,1-TCA	NonCancer	0.00E+00	2.11E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.005333	78933	MEK	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.39E-05	1634044	Me t-Butylk	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.74E-09	1.74E-09	0.00E+00	0.00E+00	0.00E+00	1.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.49E-05	75092	Methylene	NonCancer	8.74E-08	8.74E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.00048	91203	Naphthaler	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.001988	110543	Hexane	NonCancer	0.00E+00	2.84E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000261	7440020	Nickel	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	5.58E-04	1.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-02	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.24E-05	9901	DieselExhF	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.07E-10	1746016	2,3,7,8-TC	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	1.38E-03	1.38E-03	1.38E-03	0.00E+00	0.00E+00	0.00E+00	1.38E-03	1.38E-03	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000716	106445	p-Cresol	NonCancer	0.00E+00	1.19E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	6.08E-05	127184	Perc	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	1.74E-06	1.74E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000284	108952	Phenol	NonCancer	1.42E-06	1.42E-06	0.00%	0.00E+00	1.42E-06	1.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.012846	115071	Propylene	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.28E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	3.49E-05	7782492	Selenium	NonCancer	1.69E-04	1.69E-04	0.11%	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.000287	100425	Styrene	NonCancer	0.00E+00	3.19E-07	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.009443	108883	Toluene	NonCancer	0.00E+00	3.15E-05	0.02%	0.00E+00	0.00E+00	0.00E+00	3.15E-05	3.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.16E-05	79016	TCE	NonCancer	0.00E+00	6.93E-08	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	4.64E-06	7440622	Vanadium	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.66E-05	108054	Vinyl Aceta	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	2.00E-05	75014	Vinyl Chlor	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	1.53E-05	75354	Vinylid Chl	NonCancer	0.00E+00	0.00E+00	0.00%	0.00E+00	0.00E+00	2.19E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
967	ALL		571641	4178672	0.001796	1330207	Xylenes	NonCancer	0.00E+00	2.57E-06	0.00%	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-06	0.00E+00	2.57E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
									1.18E-01	1.59E-01	100.00%	7.96E-04	2.68E-02	1.62E-03	1.43E-01	1.41E-01	1.18E-01	2.64E-06	0.00E+00	1.38E-03	2.47E-02	0.00E+00	0.00E+00

19. Appendix J – HARP2 Summary Report

DRAFT

HARP Project Summary Report 3/24/2021 1:59:28 PM

PROJECT INFORMATION
HARP Version: 19121
Project Name: 3_16_21
Project Output Directory: C:\Plant 62 ABI Foundry\3_16_21
HARP Database: NA

FACILITY INFORMATION
Origin
X (m):571001
Y (m):4178392
Zone:10
No. of Sources:0
No. of Buildings:0

EMISSION INVENTORY
No. of Pollutants:1736
No. of Background Pollutants:0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
S1	0	0	79345	TetraClEthane	1	3.890432	0.00144	1
S1	0	0	79005	1,1,2TriClEthan	1	2.512570667	0.00093	1
S1	0	0	75343	1,1-DiClEthane	1	0.459287111	0.00017	1
S1	0	0	106990	1,3-Butadiene	1	0.256660444	9.5E-05	1
S1	0	0	106467	p-DiClBenzene	1	3.0394	0.001125	1
S1	0	0	123911	1,4-Dioxane	1	1.148217778	0.000425	1
S1	0	0	75070	Acetaldehyde	1	0	0	1
S1	0	0	107028	Acrolein	1	5.241276444	0.00194	1
S1	0	0	107131	Acrylonitrile	1	4.998124444	0.00185	1
S1	0	0	107051	AllylChlor	1	0.364728	0.000135	1
S1	0	0	7664417	NH3	1	0	0	1
S1	0	0	7440382	Arsenic	1	0.022009448	1.26E-05	1
S1	0	0	71432	Benzene	1	15.76634006	0.009	1
S1	0	0	100447	Benzyl Chloride	1	2.269418667	0.00084	1
S1	0	0	7440417	Beryllium	1	0.003301417	1.89E-06	1
S1	0	0	7440439	Cadmium	1	0.012996055	7.44E-06	1
S1	0	0	75150	CS2	1	1.310319111	0.000485	1
S1	0	0	56235	CCl4	1	3.323077333	0.00123	1
S1	0	0	108907	Chlorobenzn	1	3.809381333	0.00141	1
S1	0	0	67663	Chloroform	1	0.567354667	0.00021	1
S1	0	0	18540299	Cr(VI)	1	0.004017598	2.3E-06	1
S1	0	0	7440508	Copper	1	0.338875632	0.000194	1
S1	0	0	100414	Ethyl Benzene	1	2.679174815	0.000991667	1
S1	0	0	75003	Ethyl Chloride	1	0.310694222	0.000115	1
S1	0	0	106934	EDB	1	4.876548444	0.001805	1
S1	0	0	107062	EDC	1	0.472795556	0.000175	1
S1	0	0	111762	EGBE	1	0	0	1
S1	0	0	50000	Formaldehyde	1	22.77360231	0.013	1
S1	0	0	67630	Isopropyl Alcoh	1	1.121200889	0.000415	1
S1	0	0	7439921	Lead	1	3.44115977	0.00197	1
S1	0	0	7439965	Manganese	1	3.056867816	0.00175	1
S1	0	0	7439976	Mercury	1	1.292618391	0.00074	1
S1	0	0	67561	Methanol	1	1.499437333	0.000555	1

DRAFT

S1	0	0	74839	Methyl Bromide	1	3.269043556	0.00121	1
S1	0	0	71556	1,1,1-TCA	1	0.634896889	0.000235	1
S1	0	0	78933	MEK	1	2.363977778	0.000875	1
S1	0	0	1634044	Me t-ButylEther	1	0.418761778	0.000155	1
S1	0	0	75092	Methylene Chlor	1	1.539962667	0.00057	1
S1	0	0	91203	Naphthalene	1	0	0	1
S1	0	0	110543	Hexane	1	11.671296	0.00432	1
S1	0	0	7440020	Nickel	1	0.029171253	1.67E-05	1
S1	0	0	9901	DieselExhPM	1	0	0	1
S1	0	0	1746016	2,3,7,8-TCDD	1	1.99E-05	9.3E-09	1
S1	0	0	106445	p-Cresol	1	0	0	1
S1	0	0	127184	Perc	1	3.809381333	0.00141	1
S1	0	0	108952	Phenol	1	0	0	1
S1	0	0	115071	Propylene	1	27.50319289	0.01018	1
S1	0	0	7782492	Selenium	1	0.071967402	4.12E-05	1
S1	0	0	100425	Styrene	1	1.553471111	0.000575	1
S1	0	0	108883	Toluene	1	21.37035911	0.00791	1
S1	0	0	79016	TCE	1	2.445028444	0.000905	1
S1	0	0	7440622	Vanadium	1	0.009287569	5.03E-06	1
S1	0	0	108054	Vinyl Acetate	1	0.783489778	0.00029	1
S1	0	0	75014	Vinyl Chloride	1	1.188743111	0.00044	1
S1	0	0	75354	Vinylid Chlorid	1	0.459287111	0.00017	1
S1	0	0	1330207	Xylenes	1	1.634521778	0.000605	1
F1	0	0	79345	TetraClEthane	1	1.309909764	0.000484848	1
F1	0	0	79005	1,1,2TriClEthan	1	0.845983389	0.000313131	1
F1	0	0	75343	1,1-DiClEthane	1	0.154642125	5.72E-05	1
F1	0	0	106990	1,3-Butadiene	1	0.086417658	3.2E-05	1
F1	0	0	106467	p-DiClBenzene	1	1.023367003	0.000378788	1
F1	0	0	123911	1,4-Dioxane	1	0.386605312	0.000143098	1
F1	0	0	75070	Acetaldehyde	1	0	0	1
F1	0	0	107028	Acrolein	1	1.764739544	0.000653199	1
F1	0	0	107131	Acrylonitrile	1	1.682870183	0.000622896	1
F1	0	0	107051	AllylChlor	1	0.12280404	4.55E-05	1
F1	0	0	7664417	NH3	1	0	0	1
F1	0	0	7440382	Arsenic	1	0.090796512	5.2E-05	1
F1	0	0	71432	Benzene	1	5.308532006	0.003030303	1
F1	0	0	100447	Benzyl Chloride	1	0.764114029	0.000282828	1
F1	0	0	7440417	Beryllium	1	0.013619477	7.8E-06	1
F1	0	0	7440439	Cadmium	1	0.053613178	3.07E-05	1
F1	0	0	75150	CS2	1	0.441184886	0.0001633	1
F1	0	0	56235	CCl4	1	1.118881257	0.000414141	1
F1	0	0	108907	Chlorobenzn	1	1.282619978	0.000474747	1
F1	0	0	67663	Chloroform	1	0.191028507	7.07E-05	1
F1	0	0	18540299	Cr(VI)	1	0.016573966	9.49E-06	1
F1	0	0	7440508	Copper	1	1.397978036	0.000800316	1
F1	0	0	100414	Ethyl Benzene	1	0.902079062	0.000333895	1
F1	0	0	75003	Ethyl Chloride	1	0.104610849	3.87E-05	1
F1	0	0	106934	EDB	1	1.641935503	0.000607744	1
F1	0	0	107062	EDC	1	0.159190423	5.89E-05	1
F1	0	0	111762	EGBE	1	0	0	1
F1	0	0	50000	Formaldehyde	1	7.667879564	0.004377104	1
F1	0	0	67630	Isopropyl Alcoh	1	0.377508717	0.000139731	1
F1	0	0	7439921	Lead	1	14.19596253	0.008126925	1
F1	0	0	7439965	Manganese	1	12.61062661	0.007219349	1
F1	0	0	7439976	Mercury	1	5.33249354	0.003052753	1
F1	0	0	67561	Methanol	1	0.504861055	0.000186869	1
F1	0	0	74839	Methyl Bromide	1	1.100688066	0.000407407	1

DRAFT

F1	0	0	71556	1,1,1-TCA	1	0.213769996	7.91E-05	1
F1	0	0	78933	MEK	1	0.795952114	0.000294613	1
F1	0	0	1634044	Me t-ButylEther	1	0.140997232	5.22E-05	1
F1	0	0	75092	Methylene Chlor	1	0.518505948	0.000191919	1
F1	0	0	91203	Naphthalene	1	0	0	1
F1	0	0	110543	Hexane	1	3.929729293	0.001454545	1
F1	0	0	7440020	Nickel	1	0.120341408	6.89E-05	1
F1	0	0	9901	DieselExhPM	1	0	0	1
F1	0	0	1746016	2,3,7,8-TCDD	1	2.01E-07	9.39E-11	1
F1	0	0	106445	p-Cresol	1	0	0	1
F1	0	0	127184	Perc	1	1.282619978	0.000474747	1
F1	0	0	108952	Phenol	1	0	0	1
F1	0	0	115071	Propylene	1	9.260334306	0.003427609	1
F1	0	0	7782492	Selenium	1	0.296890181	0.000169964	1
F1	0	0	100425	Styrene	1	0.523054246	0.000193603	1
F1	0	0	108883	Toluene	1	7.195407108	0.0026633	1
F1	0	0	79016	TCE	1	0.8232419	0.000304714	1
F1	0	0	7440622	Vanadium	1	0.036222524	2.07E-05	1
F1	0	0	108054	Vinyl Acetate	1	0.263801272	9.76E-05	1
F1	0	0	75014	Vinyl Chloride	1	0.400250206	0.000148148	1
F1	0	0	75354	Vinylid Chlorid	1	0.154642125	5.72E-05	1
F1	0	0	1330207	Xylenes	1	0.550344033	0.000203704	1
B2S2	0	0	79345	TetraClEthane	1	0	0	1
B2S2	0	0	79005	1,1,2TriClEthan	1	0	0	1
B2S2	0	0	75343	1,1-DiClEthane	1	0	0	1
B2S2	0	0	106990	1,3-Butadiene	1	0	0	1
B2S2	0	0	106467	p-DiClBenzene	1	0	0	1
B2S2	0	0	123911	1,4-Dioxane	1	0	0	1
B2S2	0	0	75070	Acetaldehyde	1	0	0	1
B2S2	0	0	107028	Acrolein	1	0	0	1
B2S2	0	0	107131	Acrylonitrile	1	0	0	1
B2S2	0	0	107051	AllylChlor	1	0	0	1
B2S2	0	0	7664417	NH3	1	0	0	1
B2S2	0	0	7440382	Arsenic	1	0.038269689	1.56E-05	1
B2S2	0	0	71432	Benzene	1	0	0	1
B2S2	0	0	100447	Benzyl Chloride	1	0	0	1
B2S2	0	0	7440417	Beryllium	1	0.006157495	2.51E-06	1
B2S2	0	0	7440439	Cadmium	1	0.005936708	2.42E-06	1
B2S2	0	0	75150	CS2	1	0	0	1
B2S2	0	0	56235	CCl4	1	0	0	1
B2S2	0	0	108907	Chlorobenzn	1	0	0	1
B2S2	0	0	67663	Chloroform	1	0	0	1
B2S2	0	0	18540299	Cr(VI)	1	0.010303378	4.2E-06	1
B2S2	0	0	7440508	Copper	1	0.036061822	1.47E-05	1
B2S2	0	0	100414	Ethyl Benzene	1	0	0	1
B2S2	0	0	75003	Ethyl Chloride	1	0	0	1
B2S2	0	0	106934	EDB	1	0	0	1
B2S2	0	0	107062	EDC	1	0	0	1
B2S2	0	0	111762	EGBE	1	0	0	1
B2S2	0	0	50000	Formaldehyde	1	0	0	1
B2S2	0	0	67630	Isopropyl Alcoh	1	0	0	1
B2S2	0	0	7439921	Lead	1	0.022888218	9.33E-06	1
B2S2	0	0	7439965	Manganese	1	1.552866222	0.000633	1
B2S2	0	0	7439976	Mercury	1	0.094202311	3.84E-05	1
B2S2	0	0	67561	Methanol	1	0	0	1
B2S2	0	0	74839	Methyl Bromide	1	0	0	1
B2S2	0	0	71556	1,1,1-TCA	1	0	0	1

DRAFT

B2S2	0	0	78933	MEK	1	0	0	1
B2S2	0	0	1634044	Me t-ButylEther	1	0	0	1
B2S2	0	0	75092	Methylene Chlor	1	0	0	1
B2S2	0	0	91203	Naphthalene	1	0	0	1
B2S2	0	0	110543	Hexane	1	0	0	1
B2S2	0	0	7440020	Nickel	1	0.007850193	3.2E-06	1
B2S2	0	0	9901	DieselExhPM	1	0	0	1
B2S2	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
B2S2	0	0	106445	p-Cresol	1	0	0	1
B2S2	0	0	127184	Perc	1	0	0	1
B2S2	0	0	108952	Phenol	1	0	0	1
B2S2	0	0	115071	Propylene	1	0	0	1
B2S2	0	0	7782492	Selenium	1	0.131490726	5.36E-05	1
B2S2	0	0	100425	Styrene	1	0	0	1
B2S2	0	0	108883	Toluene	1	0	0	1
B2S2	0	0	79016	TCE	1	0	0	1
B2S2	0	0	7440622	Vanadium	1	0.024858943	1.01E-05	1
B2S2	0	0	108054	Vinyl Acetate	1	0	0	1
B2S2	0	0	75014	Vinyl Chloride	1	0	0	1
B2S2	0	0	75354	Vinylid Chlorid	1	0	0	1
B2S2	0	0	1330207	Xylenes	1	0	0	1
B4S2	0	0	79345	TetraClEthane	1	1.123584503	0.00054	1
B4S2	0	0	79005	1,1,2TriClEthan	1	0.894706178	0.00043	1
B4S2	0	0	75343	1,1-DiClEthane	1	0.426545969	0.000205	1
B4S2	0	0	106990	1,3-Butadiene	1	51.83053696	0.02491	1
B4S2	0	0	106467	p-DiClBenzene	1	0.98833822	0.000475	1
B4S2	0	0	123911	1,4-Dioxane	1	0.593002932	0.000285	1
B4S2	0	0	75070	Acetaldehyde	1	0	0	1
B4S2	0	0	107028	Acrolein	1	0	0	1
B4S2	0	0	107131	Acrylonitrile	1	1.564001885	0.000751667	1
B4S2	0	0	107051	AllylChlor	1	0.50977445	0.000245	1
B4S2	0	0	7664417	NH3	1	0	0	1
B4S2	0	0	7440382	Arsenic	1	0.237615035	0.000114199	1
B4S2	0	0	71432	Benzene	1	597.330813	0.28708	1
B4S2	0	0	100447	Benzyl Chloride	1	0.853091937	0.00041	1
B4S2	0	0	7440417	Beryllium	1	0.118459108	5.69E-05	1
B4S2	0	0	7440439	Cadmium	1	0.165145933	7.94E-05	1
B4S2	0	0	75150	CS2	1	9.779346597	0.0047	1
B4S2	0	0	56235	CCl4	1	1.029952461	0.000495	1
B4S2	0	0	108907	Chlorobenzn	1	0.759459895	0.000365	1
B4S2	0	0	67663	Chloroform	1	0.801074136	0.000385	1
B4S2	0	0	18540299	Cr(VI)	1	0.030886397	1.84E-05	1
B4S2	0	0	7440508	Copper	1	0.696818283	0.000334894	1
B4S2	0	0	100414	Ethyl Benzene	1	41.6766622	0.02003	1
B4S2	0	0	75003	Ethyl Chloride	1	0.436949529	0.00021	1
B4S2	0	0	106934	EDB	1	1.258830785	0.000605	1
B4S2	0	0	107062	EDC	1	0.665827853	0.00032	1
B4S2	0	0	111762	EGBE	1	0	0	1
B4S2	0	0	50000	Formaldehyde	1	0	0	1
B4S2	0	0	67630	Isopropyl Alcoh	1	6.803928377	0.00327	1
B4S2	0	0	7439921	Lead	1	0.518432803	0.000249161	1
B4S2	0	0	7439965	Manganese	1	2.863923144	0.001376415	1
B4S2	0	0	7439976	Mercury	1	0.349802778	0.000168117	1
B4S2	0	0	67561	Methanol	1	61.5474622	0.02958	1
B4S2	0	0	74839	Methyl Bromide	1	0.634617173	0.000305	1
B4S2	0	0	71556	1,1,1-TCA	1	0.894706178	0.00043	1
B4S2	0	0	78933	MEK	1	65.29274387	0.03138	1

DRAFT

B4S2	0	0	1634044	Me t-ButylEther	1	0.593002932	0.000285	1
B4S2	0	0	75092	Methylene Chlor	1	1.113180942	0.000535	1
B4S2	0	0	91203	Naphthalene	1	0	0	1
B4S2	0	0	110543	Hexane	1	42.07199749	0.02022	1
B4S2	0	0	7440020	Nickel	1	7.107546488	0.00341592	1
B4S2	0	0	9901	DieselExhPM	1	0	0	1
B4S2	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
B4S2	0	0	106445	p-Cresol	1	58.67607958	0.0282	1
B4S2	0	0	127184	Perc	1	1.113180942	0.000535	1
B4S2	0	0	108952	Phenol	1	0	0	1
B4S2	0	0	115071	Propylene	1	428.1481169	0.20577	1
B4S2	0	0	7782492	Selenium	1	0.237615035	0.000114199	1
B4S2	0	0	100425	Styrene	1	9.716925236	0.00467	1
B4S2	0	0	108883	Toluene	1	409.7546224	0.19693	1
B4S2	0	0	79016	TCE	1	0.884302618	0.000425	1
B4S2	0	0	7440622	Vanadium	1	0.000832285	4E-07	1
B4S2	0	0	108054	Vinyl Acetate	1	1.133988063	0.000545	1
B4S2	0	0	75014	Vinyl Chloride	1	0.416142408	0.0002	1
B4S2	0	0	75354	Vinylid Chlorid	1	0.655424293	0.000315	1
B4S2	0	0	1330207	Xylenes	1	84.51852314	0.04062	1
B5S2	0	0	79345	TetraClEthane	1	0.643121328	0.00039	1
B5S2	0	0	79005	1,1,2TriClEthan	1	0.511199004	0.00031	1
B5S2	0	0	75343	1,1-DiClEthane	1	0.371031535	0.000225	1
B5S2	0	0	106990	1,3-Butadiene	1	57.20481759	0.03469	1
B5S2	0	0	106467	p-DiClBenzene	1	0.560669876	0.00034	1
B5S2	0	0	123911	1,4-Dioxane	1	0.338050954	0.000205	1
B5S2	0	0	75070	Acetaldehyde	1	0	0	1
B5S2	0	0	107028	Acrolein	1	0	0	1
B5S2	0	0	107131	Acrylonitrile	1	1.649029046	0.001	1
B5S2	0	0	107051	AllylChlor	1	0.288580083	0.000175	1
B5S2	0	0	7664417	NH3	1	0	0	1
B5S2	0	0	7440382	Arsenic	1	0.058090467	3.55E-05	1
B5S2	0	0	71432	Benzene	1	773.82337	0.46926	1
B5S2	0	0	100447	Benzyl Chloride	1	0.486463568	0.000295	1
B5S2	0	0	7440417	Beryllium	1	0.029045233	1.78E-05	1
B5S2	0	0	7440439	Cadmium	1	0.160603056	9.82E-05	1
B5S2	0	0	75150	CS2	1	7.832887967	0.00475	1
B5S2	0	0	56235	CCl4	1	0.585405311	0.000355	1
B5S2	0	0	108907	Chlorobenzn	1	0.428747552	0.00026	1
B5S2	0	0	67663	Chloroform	1	0.453482988	0.000275	1
B5S2	0	0	18540299	Cr(VI)	1	0.012692035	7.76E-06	1
B5S2	0	0	7440508	Copper	1	0.595549325	0.000364149	1
B5S2	0	0	100414	Ethyl Benzene	1	54.02219154	0.03276	1
B5S2	0	0	75003	Ethyl Chloride	1	0.247354357	0.00015	1
B5S2	0	0	106934	EDB	1	0.717327635	0.000435	1
B5S2	0	0	107062	EDC	1	0.37927668	0.00023	1
B5S2	0	0	111762	EGBE	1	0	0	1
B5S2	0	0	50000	Formaldehyde	1	0	0	1
B5S2	0	0	67630	Isopropyl Alcoh	1	1.448397178	0.000878333	1
B5S2	0	0	7439921	Lead	1	0.571141566	0.000349224	1
B5S2	0	0	7439965	Manganese	1	2.333381783	0.001426746	1
B5S2	0	0	7439976	Mercury	1	0.088356088	5.4E-05	1
B5S2	0	0	67561	Methanol	1	30.39160531	0.01843	1
B5S2	0	0	74839	Methyl Bromide	1	0.36278639	0.00022	1
B5S2	0	0	71556	1,1,1-TCA	1	0.511199004	0.00031	1
B5S2	0	0	78933	MEK	1	32.18904697	0.01952	1
B5S2	0	0	1634044	Me t-ButylEther	1	0.338050954	0.000205	1

DRAFT

B5S2	0	0	75092	Methylene Chlor	1	0.651366473	0.000395	1
B5S2	0	0	91203	Naphthalene	1	46.84891519	0.02841	1
B5S2	0	0	110543	Hexane	1	72.87059353	0.04419	1
B5S2	0	0	7440020	Nickel	1	1.235032617	0.000755161	1
B5S2	0	0	9901	DieselExhPM	1	0	0	1
B5S2	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
B5S2	0	0	106445	p-Cresol	1	15.05563519	0.00913	1
B5S2	0	0	127184	Perc	1	0.634876183	0.000385	1
B5S2	0	0	108952	Phenol	1	27.73666855	0.01682	1
B5S2	0	0	115071	Propylene	1	815.5108242	0.49454	1
B5S2	0	0	7782492	Selenium	1	0.058090467	3.55E-05	1
B5S2	0	0	100425	Styrene	1	17.19937295	0.01043	1
B5S2	0	0	108883	Toluene	1	514.6949457	0.31212	1
B5S2	0	0	79016	TCE	1	0.502953859	0.000305	1
B5S2	0	0	7440622	Vanadium	1	0.006084881	4.59E-07	1
B5S2	0	0	108054	Vinyl Acetate	1	0.659611618	0.0004	1
B5S2	0	0	75014	Vinyl Chloride	1	0.239109212	0.000145	1
B5S2	0	0	75354	Vinylid Chlorid	1	0.371031535	0.000225	1
B5S2	0	0	1330207	Xylenes	1	94.15955851	0.0571	1
AS2F	0	0	79345	TetraClEthane	1	0	0	1
AS2F	0	0	79005	1,1,2TriClEthan	1	0	0	1
AS2F	0	0	75343	1,1-DiClEthane	1	0	0	1
AS2F	0	0	106990	1,3-Butadiene	1	0	0	1
AS2F	0	0	106467	p-DiClBenzene	1	0	0	1
AS2F	0	0	123911	1,4-Dioxane	1	0	0	1
AS2F	0	0	75070	Acetaldehyde	1	0	0	1
AS2F	0	0	107028	Acrolein	1	0	0	1
AS2F	0	0	107131	Acrylonitrile	1	0	0	1
AS2F	0	0	107051	AllylChlor	1	0	0	1
AS2F	0	0	7664417	NH3	1	0	0	1
AS2F	0	0	7440382	Arsenic	1	0.099752965	4.07E-05	1
AS2F	0	0	71432	Benzene	1	0	0	1
AS2F	0	0	100447	Benzyl Chloride	1	0	0	1
AS2F	0	0	7440417	Beryllium	1	0.016049996	6.54E-06	1
AS2F	0	0	7440439	Cadmium	1	0.015474498	6.31E-06	1
AS2F	0	0	75150	CS2	1	0	0	1
AS2F	0	0	56235	CCl4	1	0	0	1
AS2F	0	0	108907	Chlorobenzn	1	0	0	1
AS2F	0	0	67663	Chloroform	1	0	0	1
AS2F	0	0	18540299	Cr(VI)	1	0.026856568	1.09E-05	1
AS2F	0	0	7440508	Copper	1	0.093997987	3.83E-05	1
AS2F	0	0	100414	Ethyl Benzene	1	0	0	1
AS2F	0	0	75003	Ethyl Chloride	1	0	0	1
AS2F	0	0	106934	EDB	1	0	0	1
AS2F	0	0	107062	EDC	1	0	0	1
AS2F	0	0	111762	EGBE	1	0	0	1
AS2F	0	0	50000	Formaldehyde	1	0	0	1
AS2F	0	0	67630	Isopropyl Alcoh	1	0	0	1
AS2F	0	0	7439921	Lead	1	0.059659947	2.43E-05	1
AS2F	0	0	7439965	Manganese	1	4.047668403	0.001649964	1
AS2F	0	0	7439976	Mercury	1	0.004958016	2.02E-06	1
AS2F	0	0	67561	Methanol	1	0	0	1
AS2F	0	0	74839	Methyl Bromide	1	0	0	1
AS2F	0	0	71556	1,1,1-TCA	1	0	0	1
AS2F	0	0	78933	MEK	1	0	0	1
AS2F	0	0	1634044	Me t-ButylEther	1	0	0	1
AS2F	0	0	75092	Methylene Chlor	1	0	0	1

DRAFT

AS2F	0	0	91203	Naphthalene	1	0	0	1
AS2F	0	0	110543	Hexane	1	0	0	1
AS2F	0	0	7440020	Nickel	1	0.020462147	8.34E-06	1
AS2F	0	0	9901	DieselExhPM	1	0	0	1
AS2F	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
AS2F	0	0	106445	p-Cresol	1	0	0	1
AS2F	0	0	127184	Perc	1	0	0	1
AS2F	0	0	108952	Phenol	1	0	0	1
AS2F	0	0	115071	Propylene	1	0	0	1
AS2F	0	0	7782492	Selenium	1	0.342740958	0.000139713	1
AS2F	0	0	100425	Styrene	1	0	0	1
AS2F	0	0	108883	Toluene	1	0	0	1
AS2F	0	0	79016	TCE	1	0	0	1
AS2F	0	0	7440622	Vanadium	1	0.064796798	2.64E-05	1
AS2F	0	0	108054	Vinyl Acetate	1	0	0	1
AS2F	0	0	75014	Vinyl Chloride	1	0	0	1
AS2F	0	0	75354	Vinylid Chlorid	1	0	0	1
AS2F	0	0	1330207	Xylenes	1	0	0	1
BS2F	0	0	79345	TetraClEthane	1	0.022930296	1.1E-05	1
BS2F	0	0	79005	1,1,2TriClEthan	1	0.01825931	8.78E-06	1
BS2F	0	0	75343	1,1-DiClEthane	1	0.00870502	4.18E-06	1
BS2F	0	0	106990	1,3-Butadiene	1	1.05776606	0.000508367	1
BS2F	0	0	106467	p-DiClBenzene	1	0.020170168	9.69E-06	1
BS2F	0	0	123911	1,4-Dioxane	1	0.012102101	5.82E-06	1
BS2F	0	0	75070	Acetaldehyde	1	0	0	1
BS2F	0	0	107028	Acrolein	1	0	0	1
BS2F	0	0	107131	Acrylonitrile	1	0.031918406	1.53E-05	1
BS2F	0	0	107051	AllylChlor	1	0.01040356	5E-06	1
BS2F	0	0	7664417	NH3	1	0	0	1
BS2F	0	0	7440382	Arsenic	1	0.24016091	0.000115422	1
BS2F	0	0	71432	Benzene	1	12.19042475	0.005858776	1
BS2F	0	0	100447	Benzyl Chloride	1	0.01741004	8.37E-06	1
BS2F	0	0	7440417	Beryllium	1	0.119728313	5.75E-05	1
BS2F	0	0	7440439	Cadmium	1	0.166915354	8.02E-05	1
BS2F	0	0	75150	CS2	1	0.199578502	9.59E-05	1
BS2F	0	0	56235	CCl4	1	0.021019438	1.01E-05	1
BS2F	0	0	108907	Chlorobenzn	1	0.015499182	7.45E-06	1
BS2F	0	0	67663	Chloroform	1	0.016348452	7.86E-06	1
BS2F	0	0	18540299	Cr(VI)	1	0.038735631	1.86E-05	1
BS2F	0	0	7440508	Copper	1	0.704284193	0.000338482	1
BS2F	0	0	100414	Ethyl Benzene	1	0.850544127	0.000408776	1
BS2F	0	0	75003	Ethyl Chloride	1	0.008917337	4.29E-06	1
BS2F	0	0	106934	EDB	1	0.025690424	1.23E-05	1
BS2F	0	0	107062	EDC	1	0.013588324	6.53E-06	1
BS2F	0	0	111762	EGBE	1	0	0	1
BS2F	0	0	50000	Formaldehyde	1	0	0	1
BS2F	0	0	67630	Isopropyl Alcoh	1	0.138855681	6.67E-05	1
BS2F	0	0	7439921	Lead	1	0.52398744	0.000251831	1
BS2F	0	0	7439965	Manganese	1	2.894608034	0.001391162	1
BS2F	0	0	7439976	Mercury	1	0.353550665	0.000169918	1
BS2F	0	0	67561	Methanol	1	1.256070657	0.000603673	1
BS2F	0	0	74839	Methyl Bromide	1	0.012951371	6.22E-06	1
BS2F	0	0	71556	1,1,1-TCA	1	0.01825931	8.78E-06	1
BS2F	0	0	78933	MEK	1	1.332504977	0.000640408	1
BS2F	0	0	1634044	Me t-ButylEther	1	0.012102101	5.82E-06	1
BS2F	0	0	75092	Methylene Chlor	1	0.022717978	1.09E-05	1
BS2F	0	0	91203	Naphthalene	1	0	0	1

DRAFT

BS2F	0	0	110543	Hexane	1	0.858612194	0.000412653	1
BS2F	0	0	7440020	Nickel	1	7.183698772	0.003452519	1
BS2F	0	0	9901	DieselExhPM	1	0	0	1
BS2F	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
BS2F	0	0	106445	p-Cresol	1	1.197471012	0.00057551	1
BS2F	0	0	127184	Perc	1	0.022717978	1.09E-05	1
BS2F	0	0	108952	Phenol	1	0	0	1
BS2F	0	0	115071	Propylene	1	8.737716671	0.004199388	1
BS2F	0	0	7782492	Selenium	1	0.24016091	0.000115422	1
BS2F	0	0	100425	Styrene	1	0.198304597	9.53E-05	1
BS2F	0	0	108883	Toluene	1	8.362339233	0.00401898	1
BS2F	0	0	79016	TCE	1	0.018046992	8.67E-06	1
BS2F	0	0	7440622	Vanadium	1	0.000841202	4.04E-07	1
BS2F	0	0	108054	Vinyl Acetate	1	0.023142614	1.11E-05	1
BS2F	0	0	75014	Vinyl Chloride	1	0.008492702	4.08E-06	1
BS2F	0	0	75354	Vinylid Chlorid	1	0.013376006	6.43E-06	1
BS2F	0	0	1330207	Xylenes	1	1.724867819	0.00082898	1
CS2F	0	0	79345	TetraClEthane	1	0.013124925	7.96E-06	1
CS2F	0	0	79005	1,1,2TriClEthan	1	0.010432633	6.33E-06	1
CS2F	0	0	75343	1,1-DiClEthane	1	0.007572072	4.59E-06	1
CS2F	0	0	106990	1,3-Butadiene	1	1.167445257	0.000707959	1
CS2F	0	0	106467	p-DiClBenzene	1	0.011442242	6.94E-06	1
CS2F	0	0	123911	1,4-Dioxane	1	0.006898999	4.18E-06	1
CS2F	0	0	75070	Acetaldehyde	1	0	0	1
CS2F	0	0	107028	Acrolein	1	0	0	1
CS2F	0	0	107131	Acrylonitrile	1	0.033653654	2.04E-05	1
CS2F	0	0	107051	AllylChlor	1	0.005889389	3.57E-06	1
CS2F	0	0	7664417	NH3	1	0	0	1
CS2F	0	0	7440382	Arsenic	1	0.058712865	3.59E-05	1
CS2F	0	0	71432	Benzene	1	15.79231367	0.009576735	1
CS2F	0	0	100447	Benzyl Chloride	1	0.009927828	6.02E-06	1
CS2F	0	0	7440417	Beryllium	1	0.029356432	1.79E-05	1
CS2F	0	0	7440439	Cadmium	1	0.162323803	9.93E-05	1
CS2F	0	0	75150	CS2	1	0.159854856	9.69E-05	1
CS2F	0	0	56235	CCl4	1	0.011947047	7.24E-06	1
CS2F	0	0	108907	Chlorobenzn	1	0.00874995	5.31E-06	1
CS2F	0	0	67663	Chloroform	1	0.009254755	5.61E-06	1
CS2F	0	0	18540299	Cr(VI)	1	0.012828021	7.84E-06	1
CS2F	0	0	7440508	Copper	1	0.601930211	0.00036805	1
CS2F	0	0	100414	Ethyl Benzene	1	1.102493705	0.000668571	1
CS2F	0	0	75003	Ethyl Chloride	1	0.005048048	3.06E-06	1
CS2F	0	0	106934	EDB	1	0.014639339	8.88E-06	1
CS2F	0	0	107062	EDC	1	0.00774034	4.69E-06	1
CS2F	0	0	111762	EGBE	1	0	0	1
CS2F	0	0	50000	Formaldehyde	1	0	0	1
CS2F	0	0	67630	Isopropyl Alcoh	1	0.029559126	1.79E-05	1
CS2F	0	0	7439921	Lead	1	0.57726094	0.000352966	1
CS2F	0	0	7439965	Manganese	1	2.358382302	0.001442033	1
CS2F	0	0	7439976	Mercury	1	0.089302761	5.46E-05	1
CS2F	0	0	67561	Methanol	1	0.620236843	0.000376122	1
CS2F	0	0	74839	Methyl Bromide	1	0.007403804	4.49E-06	1
CS2F	0	0	71556	1,1,1-TCA	1	0.010432633	6.33E-06	1
CS2F	0	0	78933	MEK	1	0.656919326	0.000398367	1
CS2F	0	0	1634044	Me t-ButylEther	1	0.006898999	4.18E-06	1
CS2F	0	0	75092	Methylene Chlor	1	0.013293193	8.06E-06	1
CS2F	0	0	91203	Naphthalene	1	0.95610031	0.000579796	1
CS2F	0	0	110543	Hexane	1	1.48715497	0.000901837	1

DRAFT

CS2F	0	0	7440020	Nickel	1	1.248265109	0.000763252	1
CS2F	0	0	9901	DieselExhPM	1	0	0	1
CS2F	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
CS2F	0	0	106445	p-Cresol	1	0.307257861	0.000186327	1
CS2F	0	0	127184	Perc	1	0.012956657	7.86E-06	1
CS2F	0	0	108952	Phenol	1	0.56605446	0.000343265	1
CS2F	0	0	115071	Propylene	1	16.64307805	0.010092653	1
CS2F	0	0	7782492	Selenium	1	0.058712865	3.59E-05	1
CS2F	0	0	100425	Styrene	1	0.351007611	0.000212857	1
CS2F	0	0	108883	Toluene	1	10.50397848	0.006369796	1
CS2F	0	0	79016	TCE	1	0.010264364	6.22E-06	1
CS2F	0	0	7440622	Vanadium	1	0.000759269	4.64E-07	1
CS2F	0	0	108054	Vinyl Acetate	1	0.013461462	8.16E-06	1
CS2F	0	0	75014	Vinyl Chloride	1	0.00487978	2.96E-06	1
CS2F	0	0	75354	Vinylid Chlorid	1	0.007572072	4.59E-06	1
CS2F	0	0	1330207	Xylenes	1	1.921623643	0.001165306	1
S3	0	0	79345	TetraClEthane	1	0	0	1
S3	0	0	79005	1,1,2TriClEthan	1	0	0	1
S3	0	0	75343	1,1-DiClEthane	1	0	0	1
S3	0	0	106990	1,3-Butadiene	1	0	0	1
S3	0	0	106467	p-DiClBenzene	1	0	0	1
S3	0	0	123911	1,4-Dioxane	1	0	0	1
S3	0	0	75070	Acetaldehyde	1	0	0	1
S3	0	0	107028	Acrolein	1	0	0	1
S3	0	0	107131	Acrylonitrile	1	0	0	1
S3	0	0	107051	AllylChlor	1	0	0	1
S3	0	0	7664417	NH3	1	0	0	1
S3	0	0	7440382	Arsenic	1	0.013528703	8.17E-06	1
S3	0	0	71432	Benzene	1	0	0	1
S3	0	0	100447	Benzyl Chloride	1	0	0	1
S3	0	0	7440417	Beryllium	1	0.002185788	1.32E-06	1
S3	0	0	7440439	Cadmium	1	0.002036757	1.23E-06	1
S3	0	0	75150	CS2	1	0	0	1
S3	0	0	56235	CCl4	1	0	0	1
S3	0	0	108907	Chlorobenzn	1	0	0	1
S3	0	0	67663	Chloroform	1	0	0	1
S3	0	0	18540299	Cr(VI)	1	0.008492401	5.13E-06	1
S3	0	0	7440508	Copper	1	0.09786369	5.91E-05	1
S3	0	0	100414	Ethyl Benzene	1	0	0	1
S3	0	0	75003	Ethyl Chloride	1	0	0	1
S3	0	0	106934	EDB	1	0	0	1
S3	0	0	107062	EDC	1	0	0	1
S3	0	0	111762	EGBE	1	0	0	1
S3	0	0	50000	Formaldehyde	1	0	0	1
S3	0	0	67630	Isopropyl Alcoh	1	0	0	1
S3	0	0	7439921	Lead	1	0.013180964	7.96E-06	1
S3	0	0	7439965	Manganese	1	0.07021016	4.24E-05	1
S3	0	0	7439976	Mercury	1	0.02417614	1.46E-05	1
S3	0	0	67561	Methanol	1	0	0	1
S3	0	0	74839	Methyl Bromide	1	0	0	1
S3	0	0	71556	1,1,1-TCA	1	0	0	1
S3	0	0	78933	MEK	1	0	0	1
S3	0	0	1634044	Me t-ButylEther	1	0	0	1
S3	0	0	75092	Methylene Chlor	1	0	0	1
S3	0	0	91203	Naphthalene	1	0	0	1
S3	0	0	110543	Hexane	1	0	0	1
S3	0	0	7440020	Nickel	1	0.03576744	2.16E-05	1

DRAFT

S3	0	0	9901	DieselExhPM	1	0	0	1
S3	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S3	0	0	106445	p-Cresol	1	0	0	1
S3	0	0	127184	Perc	1	0	0	1
S3	0	0	108952	Phenol	1	0	0	1
S3	0	0	115071	Propylene	1	0	0	1
S3	0	0	7782492	Selenium	1	0.04686197	2.83E-05	1
S3	0	0	100425	Styrene	1	0	0	1
S3	0	0	108883	Toluene	1	0	0	1
S3	0	0	79016	TCE	1	0	0	1
S3	0	0	7440622	Vanadium	1	0.004371576	2.64E-06	1
S3	0	0	108054	Vinyl Acetate	1	0	0	1
S3	0	0	75014	Vinyl Chloride	1	0	0	1
S3	0	0	75354	Vinylid Chlorid	1	0	0	1
S3	0	0	1330207	Xylenes	1	0	0	1
F3	0	0	79345	TetraClEthane	1	0	0	1
F3	0	0	79005	1,1,2TriClEthan	1	0	0	1
F3	0	0	75343	1,1-DiClEthane	1	0	0	1
F3	0	0	106990	1,3-Butadiene	1	0	0	1
F3	0	0	106467	p-DiClBenzene	1	0	0	1
F3	0	0	123911	1,4-Dioxane	1	0	0	1
F3	0	0	75070	Acetaldehyde	1	0	0	1
F3	0	0	107028	Acrolein	1	0	0	1
F3	0	0	107131	Acrylonitrile	1	0	0	1
F3	0	0	107051	AllylChlor	1	0	0	1
F3	0	0	7664417	NH3	1	0	0	1
F3	0	0	7440382	Arsenic	1	0.056820553	3.43E-05	1
F3	0	0	71432	Benzene	1	0	0	1
F3	0	0	100447	Benzyl Chloride	1	0	0	1
F3	0	0	7440417	Beryllium	1	0.00918031	5.54E-06	1
F3	0	0	7440439	Cadmium	1	0.008554379	5.17E-06	1
F3	0	0	75150	CS2	1	0	0	1
F3	0	0	56235	CCl4	1	0	0	1
F3	0	0	108907	Chlorobenzn	1	0	0	1
F3	0	0	67663	Chloroform	1	0	0	1
F3	0	0	18540299	Cr(VI)	1	0.035668086	2.15E-05	1
F3	0	0	7440508	Copper	1	0.411027498	0.000248	1
F3	0	0	100414	Ethyl Benzene	1	0	0	1
F3	0	0	75003	Ethyl Chloride	1	0	0	1
F3	0	0	106934	EDB	1	0	0	1
F3	0	0	107062	EDC	1	0	0	1
F3	0	0	111762	EGBE	1	0	0	1
F3	0	0	50000	Formaldehyde	1	0	0	1
F3	0	0	67630	Isopropyl Alcoh	1	0	0	1
F3	0	0	7439921	Lead	1	0.055360049	3.34E-05	1
F3	0	0	7439965	Manganese	1	0.294882672	0.000178	1
F3	0	0	7439976	Mercury	1	0.101539788	6.13E-05	1
F3	0	0	67561	Methanol	1	0	0	1
F3	0	0	74839	Methyl Bromide	1	0	0	1
F3	0	0	71556	1,1,1-TCA	1	0	0	1
F3	0	0	78933	MEK	1	0	0	1
F3	0	0	1634044	Me t-ButylEther	1	0	0	1
F3	0	0	75092	Methylene Chlor	1	0	0	1
F3	0	0	91203	Naphthalene	1	0	0	1
F3	0	0	110543	Hexane	1	0	0	1
F3	0	0	7440020	Nickel	1	0.150223248	9.07E-05	1
F3	0	0	9901	DieselExhPM	1	0	0	1

DRAFT

F3	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
F3	0	0	106445	p-Cresol	1	0	0	1
F3	0	0	127184	Perc	1	0	0	1
F3	0	0	108952	Phenol	1	0	0	1
F3	0	0	115071	Propylene	1	0	0	1
F3	0	0	7782492	Selenium	1	0.196820274	0.000119	1
F3	0	0	100425	Styrene	1	0	0	1
F3	0	0	108883	Toluene	1	0	0	1
F3	0	0	79016	TCE	1	0	0	1
F3	0	0	7440622	Vanadium	1	0.018360619	1.11E-05	1
F3	0	0	108054	Vinyl Acetate	1	0	0	1
F3	0	0	75014	Vinyl Chloride	1	0	0	1
F3	0	0	75354	Vinylid Chlorid	1	0	0	1
F3	0	0	1330207	Xylenes	1	0	0	1
S4	0	0	79345	TetraClEthane	1	0	0	1
S4	0	0	79005	1,1,2TriClEthan	1	0	0	1
S4	0	0	75343	1,1-DiClEthane	1	0	0	1
S4	0	0	106990	1,3-Butadiene	1	0	0	1
S4	0	0	106467	p-DiClBenzene	1	0	0	1
S4	0	0	123911	1,4-Dioxane	1	0	0	1
S4	0	0	75070	Acetaldehyde	1	0	0	1
S4	0	0	107028	Acrolein	1	0	0	1
S4	0	0	107131	Acrylonitrile	1	0	0	1
S4	0	0	107051	AllylChlor	1	0	0	1
S4	0	0	7664417	NH3	1	0	0	1
S4	0	0	7440382	Arsenic	1	0.0149031	9E-06	1
S4	0	0	71432	Benzene	1	0	0	1
S4	0	0	100447	Benzyl Chloride	1	0	0	1
S4	0	0	7440417	Beryllium	1	0.002268583	1.37E-06	1
S4	0	0	7440439	Cadmium	1	0.002202347	1.33E-06	1
S4	0	0	75150	CS2	1	0	0	1
S4	0	0	56235	CCl4	1	0	0	1
S4	0	0	108907	Chlorobenzn	1	0	0	1
S4	0	0	67663	Chloroform	1	0	0	1
S4	0	0	18540299	Cr(VI)	1	0.00380857	2.3E-06	1
S4	0	0	7440508	Copper	1	0.014042032	8.48E-06	1
S4	0	0	100414	Ethyl Benzene	1	0	0	1
S4	0	0	75003	Ethyl Chloride	1	0	0	1
S4	0	0	106934	EDB	1	0	0	1
S4	0	0	107062	EDC	1	0	0	1
S4	0	0	111762	EGBE	1	0	0	1
S4	0	0	50000	Formaldehyde	1	0	0	1
S4	0	0	67630	Isopropyl Alcoh	1	0	0	1
S4	0	0	7439921	Lead	1	0.03891365	2.35E-05	1
S4	0	0	7439965	Manganese	1	0.5381675	0.000325	1
S4	0	0	7439976	Mercury	1	0.02053316	1.24E-05	1
S4	0	0	67561	Methanol	1	0	0	1
S4	0	0	74839	Methyl Bromide	1	0	0	1
S4	0	0	71556	1,1,1-TCA	1	0	0	1
S4	0	0	78933	MEK	1	0	0	1
S4	0	0	1634044	Me t-ButylEther	1	0	0	1
S4	0	0	75092	Methylene Chlor	1	0	0	1
S4	0	0	91203	Naphthalene	1	0	0	1
S4	0	0	110543	Hexane	1	0	0	1
S4	0	0	7440020	Nickel	1	0.004570284	2.76E-06	1
S4	0	0	9901	DieselExhPM	1	0	0	1
S4	0	0	1746016	2,3,7,8-TCDD	1	0	0	1

DRAFT

S4	0	0	106445	p-Cresol	1	0	0	1
S4	0	0	127184	Perc	1	0	0	1
S4	0	0	108952	Phenol	1	0	0	1
S4	0	0	115071	Propylene	1	0	0	1
S4	0	0	7782492	Selenium	1	0.04702756	2.84E-05	1
S4	0	0	100425	Styrene	1	0	0	1
S4	0	0	108883	Toluene	1	0	0	1
S4	0	0	79016	TCE	1	0	0	1
S4	0	0	7440622	Vanadium	1	0.005216085	3.15E-06	1
S4	0	0	108054	Vinyl Acetate	1	0	0	1
S4	0	0	75014	Vinyl Chloride	1	0	0	1
S4	0	0	75354	Vinylid Chlorid	1	0	0	1
S4	0	0	1330207	Xylenes	1	0	0	1
F4	0	0	79345	TetraClEthane	1	0	0	1
F4	0	0	79005	1,1,2TriClEthan	1	0	0	1
F4	0	0	75343	1,1-DiClEthane	1	0	0	1
F4	0	0	106990	1,3-Butadiene	1	0	0	1
F4	0	0	106467	p-DiClBenzene	1	0	0	1
F4	0	0	123911	1,4-Dioxane	1	0	0	1
F4	0	0	75070	Acetaldehyde	1	0	0	1
F4	0	0	107028	Acrolein	1	0	0	1
F4	0	0	107131	Acrylonitrile	1	0	0	1
F4	0	0	107051	AllylChlor	1	0	0	1
F4	0	0	7664417	NH3	1	0	0	1
F4	0	0	7440382	Arsenic	1	0.010463598	4.5E-06	1
F4	0	0	71432	Benzene	1	0	0	1
F4	0	0	100447	Benzyl Chloride	1	0	0	1
F4	0	0	7440417	Beryllium	1	0.001592792	6.85E-07	1
F4	0	0	7440439	Cadmium	1	0.001546287	6.65E-07	1
F4	0	0	75150	CS2	1	0	0	1
F4	0	0	56235	CCl4	1	0	0	1
F4	0	0	108907	Chlorobenzn	1	0	0	1
F4	0	0	67663	Chloroform	1	0	0	1
F4	0	0	18540299	Cr(VI)	1	0.002674031	1.15E-06	1
F4	0	0	7440508	Copper	1	0.009859034	4.24E-06	1
F4	0	0	100414	Ethyl Benzene	1	0	0	1
F4	0	0	75003	Ethyl Chloride	1	0	0	1
F4	0	0	106934	EDB	1	0	0	1
F4	0	0	107062	EDC	1	0	0	1
F4	0	0	111762	EGBE	1	0	0	1
F4	0	0	50000	Formaldehyde	1	0	0	1
F4	0	0	67630	Isopropyl Alcoh	1	0	0	1
F4	0	0	7439921	Lead	1	0.027321616	1.18E-05	1
F4	0	0	7439965	Manganese	1	0.377852142	0.000162582	1
F4	0	0	7439976	Mercury	1	0.014416512	6.2E-06	1
F4	0	0	67561	Methanol	1	0	0	1
F4	0	0	74839	Methyl Bromide	1	0	0	1
F4	0	0	71556	1,1,1-TCA	1	0	0	1
F4	0	0	78933	MEK	1	0	0	1
F4	0	0	1634044	Me t-ButylEther	1	0	0	1
F4	0	0	75092	Methylene Chlor	1	0	0	1
F4	0	0	91203	Naphthalene	1	0	0	1
F4	0	0	110543	Hexane	1	0	0	1
F4	0	0	7440020	Nickel	1	0.003208837	1.38E-06	1
F4	0	0	9901	DieselExhPM	1	0	0	1
F4	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
F4	0	0	106445	p-Cresol	1	0	0	1

DRAFT

F4	0	0	127184	Perc	1	0	0	1
F4	0	0	108952	Phenol	1	0	0	1
F4	0	0	115071	Propylene	1	0	0	1
F4	0	0	7782492	Selenium	1	0.033018464	1.42E-05	1
F4	0	0	100425	Styrene	1	0	0	1
F4	0	0	108883	Toluene	1	0	0	1
F4	0	0	79016	TCE	1	0	0	1
F4	0	0	7440622	Vanadium	1	0.003662259	1.58E-06	1
F4	0	0	108054	Vinyl Acetate	1	0	0	1
F4	0	0	75014	Vinyl Chloride	1	0	0	1
F4	0	0	75354	Vinylid Chlorid	1	0	0	1
F4	0	0	1330207	Xylenes	1	0	0	1
S7	0	0	79345	TetraClEthane	1	0	0	1
S7	0	0	79005	1,1,2TriClEthan	1	0	0	1
S7	0	0	75343	1,1-DiClEthane	1	0	0	1
S7	0	0	106990	1,3-Butadiene	1	0	0	1
S7	0	0	106467	p-DiClBenzene	1	0	0	1
S7	0	0	123911	1,4-Dioxane	1	0	0	1
S7	0	0	75070	Acetaldehyde	1	0.054696356	2E-05	1
S7	0	0	107028	Acrolein	1	0.018909311	6.91E-06	1
S7	0	0	107131	Acrylonitrile	1	0	0	1
S7	0	0	107051	AllylChlor	1	0	0	1
S7	0	0	7664417	NH3	1	0	0	1
S7	0	0	7440382	Arsenic	1	0.000391	1.43E-07	1
S7	0	0	71432	Benzene	1	0.043757084	1.6E-05	1
S7	0	0	100447	Benzyl Chloride	1	0	0	1
S7	0	0	7440417	Beryllium	1	2.34E-05	8.57E-09	1
S7	0	0	7440439	Cadmium	1	0.00215	7.86E-07	1
S7	0	0	75150	CS2	1	0	0	1
S7	0	0	56235	CCl4	1	0	0	1
S7	0	0	108907	Chlorobenzn	1	0	0	1
S7	0	0	67663	Chloroform	1	0	0	1
S7	0	0	18540299	Cr(VI)	1	0	0	1
S7	0	0	7440508	Copper	1	0.00166	6.07E-07	1
S7	0	0	100414	Ethyl Benzene	1	0.008790486	3.21E-06	1
S7	0	0	75003	Ethyl Chloride	1	0	0	1
S7	0	0	106934	EDB	1	0	0	1
S7	0	0	107062	EDC	1	0	0	1
S7	0	0	111762	EGBE	1	0	0	1
S7	0	0	50000	Formaldehyde	1	0.289109308	0.000105714	1
S7	0	0	67630	Isopropyl Alcoh	1	0	0	1
S7	0	0	7439921	Lead	1	0.000977	3.57E-07	1
S7	0	0	7439965	Manganese	1	0.000742	2.71E-07	1
S7	0	0	7439976	Mercury	1	0.000508	1.86E-07	1
S7	0	0	67561	Methanol	1	0	0	1
S7	0	0	74839	Methyl Bromide	1	0	0	1
S7	0	0	71556	1,1,1-TCA	1	0	0	1
S7	0	0	78933	MEK	1	0	0	1
S7	0	0	1634044	Me t-ButylEther	1	0	0	1
S7	0	0	75092	Methylene Chlor	1	0	0	1
S7	0	0	91203	Naphthalene	1	0.004375708	1.6E-06	1
S7	0	0	110543	Hexane	1	7.032388571	0.002571429	1
S7	0	0	7440020	Nickel	1	0.0041	1.5E-06	1
S7	0	0	9901	DieselExhPM	1	0	0	1
S7	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S7	0	0	106445	p-Cresol	1	0	0	1
S7	0	0	127184	Perc	1	0	0	1

DRAFT

S7	0	0	108952	Phenol	1	0	0	1
S7	0	0	115071	Propylene	1	0.918117397	0.000335714	1
S7	0	0	7782492	Selenium	1	4.69E-05	1.71E-08	1
S7	0	0	100425	Styrene	1	0	0	1
S7	0	0	108883	Toluene	1	0.115253035	4.21E-05	1
S7	0	0	79016	TCE	1	0	0	1
S7	0	0	7440622	Vanadium	1	0.00449	1.64E-06	1
S7	0	0	108054	Vinyl Acetate	1	0	0	1
S7	0	0	75014	Vinyl Chloride	1	0	0	1
S7	0	0	75354	Vinylid Chlorid	1	0	0	1
S7	0	0	1330207	Xylenes	1	0.05586842	2.04E-05	1
S9	0	0	79345	TetraClEthane	1	0	0	1
S9	0	0	79005	1,1,2TriClEthan	1	0	0	1
S9	0	0	75343	1,1-DiClEthane	1	0	0	1
S9	0	0	106990	1,3-Butadiene	1	0	0	1
S9	0	0	106467	p-DiClBenzene	1	0	0	1
S9	0	0	123911	1,4-Dioxane	1	0	0	1
S9	0	0	75070	Acetaldehyde	1	0.054696356	2E-05	1
S9	0	0	107028	Acrolein	1	0.018909311	6.91E-06	1
S9	0	0	107131	Acrylonitrile	1	0	0	1
S9	0	0	107051	AllylChlor	1	0	0	1
S9	0	0	7664417	NH3	1	0	0	1
S9	0	0	7440382	Arsenic	1	0.000391	1.43E-07	1
S9	0	0	71432	Benzene	1	0.043757084	1.6E-05	1
S9	0	0	100447	Benzyl Chloride	1	0	0	1
S9	0	0	7440417	Beryllium	1	2.34E-05	8.57E-09	1
S9	0	0	7440439	Cadmium	1	0.00215	7.86E-07	1
S9	0	0	75150	CS2	1	0	0	1
S9	0	0	56235	CCl4	1	0	0	1
S9	0	0	108907	Chlorobenzn	1	0	0	1
S9	0	0	67663	Chloroform	1	0	0	1
S9	0	0	18540299	Cr(VI)	1	0	0	1
S9	0	0	7440508	Copper	1	0.00166	6.07E-07	1
S9	0	0	100414	Ethyl Benzene	1	0.008790486	3.21E-06	1
S9	0	0	75003	Ethyl Chloride	1	0	0	1
S9	0	0	106934	EDB	1	0	0	1
S9	0	0	107062	EDC	1	0	0	1
S9	0	0	111762	EGBE	1	0	0	1
S9	0	0	50000	Formaldehyde	1	0.289109308	0.000105714	1
S9	0	0	67630	Isopropyl Alcoh	1	0	0	1
S9	0	0	7439921	Lead	1	0.000977	3.57E-07	1
S9	0	0	7439965	Manganese	1	0.000742	2.71E-07	1
S9	0	0	7439976	Mercury	1	0.000508	1.86E-07	1
S9	0	0	67561	Methanol	1	0	0	1
S9	0	0	74839	Methyl Bromide	1	0	0	1
S9	0	0	71556	1,1,1-TCA	1	0	0	1
S9	0	0	78933	MEK	1	0	0	1
S9	0	0	1634044	Me t-ButylEther	1	0	0	1
S9	0	0	75092	Methylene Chlor	1	0	0	1
S9	0	0	91203	Naphthalene	1	0.004375708	1.6E-06	1
S9	0	0	110543	Hexane	1	7.032388571	0.002571429	1
S9	0	0	7440020	Nickel	1	0.0041	1.5E-06	1
S9	0	0	9901	DieselExhPM	1	0	0	1
S9	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S9	0	0	106445	p-Cresol	1	0	0	1
S9	0	0	127184	Perc	1	0	0	1
S9	0	0	108952	Phenol	1	0	0	1

DRAFT

S9	0	0	115071	Propylene	1	0.918117397	0.000335714	1
S9	0	0	7782492	Selenium	1	4.69E-05	1.71E-08	1
S9	0	0	100425	Styrene	1	0	0	1
S9	0	0	108883	Toluene	1	0.115253035	4.21E-05	1
S9	0	0	79016	TCE	1	0	0	1
S9	0	0	7440622	Vanadium	1	0.00449	1.64E-06	1
S9	0	0	108054	Vinyl Acetate	1	0	0	1
S9	0	0	75014	Vinyl Chloride	1	0	0	1
S9	0	0	75354	Vinylid Chlorid	1	0	0	1
S9	0	0	1330207	Xylenes	1	0.05586842	2.04E-05	1
S10	0	0	79345	TetraClEthane	1	0	0	1
S10	0	0	79005	1,1,2TriClEthan	1	0	0	1
S10	0	0	75343	1,1-DiClEthane	1	0	0	1
S10	0	0	106990	1,3-Butadiene	1	0	0	1
S10	0	0	106467	p-DiClBenzene	1	0	0	1
S10	0	0	123911	1,4-Dioxane	1	0	0	1
S10	0	0	75070	Acetaldehyde	1	0.082044533	2E-05	1
S10	0	0	107028	Acrolein	1	0.028363967	6.91E-06	1
S10	0	0	107131	Acrylonitrile	1	0	0	1
S10	0	0	107051	AllylChlor	1	0	0	1
S10	0	0	7664417	NH3	1	0	0	1
S10	0	0	7440382	Arsenic	1	0.000586	1.43E-07	1
S10	0	0	71432	Benzene	1	0.065635627	1.6E-05	1
S10	0	0	100447	Benzyl Chloride	1	0	0	1
S10	0	0	7440417	Beryllium	1	3.52E-05	8.57E-09	1
S10	0	0	7440439	Cadmium	1	0.00322	7.86E-07	1
S10	0	0	75150	CS2	1	0	0	1
S10	0	0	56235	CCl4	1	0	0	1
S10	0	0	108907	Chlorobenzn	1	0	0	1
S10	0	0	67663	Chloroform	1	0	0	1
S10	0	0	18540299	Cr(VI)	1	0	0	1
S10	0	0	7440508	Copper	1	0.00249	6.07E-07	1
S10	0	0	100414	Ethyl Benzene	1	0.013185729	3.21E-06	1
S10	0	0	75003	Ethyl Chloride	1	0	0	1
S10	0	0	106934	EDB	1	0	0	1
S10	0	0	107062	EDC	1	0	0	1
S10	0	0	111762	EGBE	1	0	0	1
S10	0	0	50000	Formaldehyde	1	0.433663962	0.000105714	1
S10	0	0	67630	Isopropyl Alcoh	1	0	0	1
S10	0	0	7439921	Lead	1	0.00147	3.57E-07	1
S10	0	0	7439965	Manganese	1	0.00111	2.71E-07	1
S10	0	0	7439976	Mercury	1	0.000762	1.86E-07	1
S10	0	0	67561	Methanol	1	0	0	1
S10	0	0	74839	Methyl Bromide	1	0	0	1
S10	0	0	71556	1,1,1-TCA	1	0	0	1
S10	0	0	78933	MEK	1	0	0	1
S10	0	0	1634044	Me t-ButylEther	1	0	0	1
S10	0	0	75092	Methylene Chlor	1	0	0	1
S10	0	0	91203	Naphthalene	1	0.006563563	1.6E-06	1
S10	0	0	110543	Hexane	1	10.54858286	0.002571429	1
S10	0	0	7440020	Nickel	1	0.00615	1.5E-06	1
S10	0	0	9901	DieselExhPM	1	0	0	1
S10	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S10	0	0	106445	p-Cresol	1	0	0	1
S10	0	0	127184	Perc	1	0	0	1
S10	0	0	108952	Phenol	1	0	0	1
S10	0	0	115071	Propylene	1	1.377176095	0.000335714	1

DRAFT

S10	0	0	7782492	Selenium	1	7.03E-05	1.71E-08	1
S10	0	0	100425	Styrene	1	0	0	1
S10	0	0	108883	Toluene	1	0.172879552	4.21E-05	1
S10	0	0	79016	TCE	1	0	0	1
S10	0	0	7440622	Vanadium	1	0.00674	1.64E-06	1
S10	0	0	108054	Vinyl Acetate	1	0	0	1
S10	0	0	75014	Vinyl Chloride	1	0	0	1
S10	0	0	75354	Vinylid Chlorid	1	0	0	1
S10	0	0	1330207	Xylenes	1	0.08380263	2.04E-05	1
S25	0	0	79345	TetraClEthane	1	0	0	1
S25	0	0	79005	1,1,2TriClEthan	1	0	0	1
S25	0	0	75343	1,1-DiClEthane	1	0	0	1
S25	0	0	106990	1,3-Butadiene	1	0	0	1
S25	0	0	106467	p-DiClBenzene	1	0	0	1
S25	0	0	123911	1,4-Dioxane	1	0	0	1
S25	0	0	75070	Acetaldehyde	1	0	0	1
S25	0	0	107028	Acrolein	1	0	0	1
S25	0	0	107131	Acrylonitrile	1	0	0	1
S25	0	0	107051	AllylChlor	1	0	0	1
S25	0	0	7664417	NH3	1	0	0	1
S25	0	0	7440382	Arsenic	1	0.01558307	8.48E-06	1
S25	0	0	71432	Benzene	1	0	0	1
S25	0	0	100447	Benzyl Chloride	1	0	0	1
S25	0	0	7440417	Beryllium	1	0.002425667	1.32E-06	1
S25	0	0	7440439	Cadmium	1	0.002333785	1.27E-06	1
S25	0	0	75150	CS2	1	0	0	1
S25	0	0	56235	CCl4	1	0	0	1
S25	0	0	108907	Chlorobenzn	1	0	0	1
S25	0	0	67663	Chloroform	1	0	0	1
S25	0	0	18540299	Cr(VI)	1	0.003675252	2E-06	1
S25	0	0	7440508	Copper	1	0.052923634	2.88E-05	1
S25	0	0	100414	Ethyl Benzene	1	0	0	1
S25	0	0	75003	Ethyl Chloride	1	0	0	1
S25	0	0	106934	EDB	1	0	0	1
S25	0	0	107062	EDC	1	0	0	1
S25	0	0	111762	EGBE	1	0	0	1
S25	0	0	50000	Formaldehyde	1	0	0	1
S25	0	0	67630	Isopropyl Alcoh	1	0	0	1
S25	0	0	7439921	Lead	1	0.545774972	0.000297	1
S25	0	0	7439965	Manganese	1	0.389576748	0.000212	1
S25	0	0	7439976	Mercury	1	0.023705378	1.29E-05	1
S25	0	0	67561	Methanol	1	0	0	1
S25	0	0	74839	Methyl Bromide	1	0	0	1
S25	0	0	71556	1,1,1-TCA	1	0	0	1
S25	0	0	78933	MEK	1	0	0	1
S25	0	0	1634044	Me t-ButylEther	1	0	0	1
S25	0	0	75092	Methylene Chlor	1	0	0	1
S25	0	0	91203	Naphthalene	1	0	0	1
S25	0	0	110543	Hexane	1	0	0	1
S25	0	0	7440020	Nickel	1	0.012073204	6.57E-06	1
S25	0	0	9901	DieselExhPM	1	0	0	1
S25	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S25	0	0	106445	p-Cresol	1	0	0	1
S25	0	0	127184	Perc	1	0	0	1
S25	0	0	108952	Phenol	1	0	0	1
S25	0	0	115071	Propylene	1	0	0	1
S25	0	0	7782492	Selenium	1	0.052556108	2.86E-05	1

DRAFT

S25	0	0	100425	Styrene	1	0	0	1
S25	0	0	108883	Toluene	1	0	0	1
S25	0	0	79016	TCE	1	0	0	1
S25	0	0	7440622	Vanadium	1	0.016855793	9.28E-06	1
S25	0	0	108054	Vinyl Acetate	1	0	0	1
S25	0	0	75014	Vinyl Chloride	1	0	0	1
S25	0	0	75354	Vinylid Chlorid	1	0	0	1
S25	0	0	1330207	Xylenes	1	0	0	1
F25	0	0	79345	TetraClEthane	1	0	0	1
F25	0	0	79005	1,1,2TriClEthan	1	0	0	1
F25	0	0	75343	1,1-DiClEthane	1	0	0	1
F25	0	0	106990	1,3-Butadiene	1	0	0	1
F25	0	0	106467	p-DiClBenzene	1	0	0	1
F25	0	0	123911	1,4-Dioxane	1	0	0	1
F25	0	0	75070	Acetaldehyde	1	0	0	1
F25	0	0	107028	Acrolein	1	0	0	1
F25	0	0	107131	Acrylonitrile	1	0	0	1
F25	0	0	107051	AllylChlor	1	0	0	1
F25	0	0	7664417	NH3	1	0	0	1
F25	0	0	7440382	Arsenic	1	0.008201616	4.46E-06	1
F25	0	0	71432	Benzene	1	0	0	1
F25	0	0	100447	Benzyl Chloride	1	0	0	1
F25	0	0	7440417	Beryllium	1	0.001276667	6.95E-07	1
F25	0	0	7440439	Cadmium	1	0.001228308	6.68E-07	1
F25	0	0	75150	CS2	1	0	0	1
F25	0	0	56235	CCl4	1	0	0	1
F25	0	0	108907	Chlorobenzn	1	0	0	1
F25	0	0	67663	Chloroform	1	0	0	1
F25	0	0	18540299	Cr(VI)	1	0.001934343	1.05E-06	1
F25	0	0	7440508	Copper	1	0.027854544	1.52E-05	1
F25	0	0	100414	Ethyl Benzene	1	0	0	1
F25	0	0	75003	Ethyl Chloride	1	0	0	1
F25	0	0	106934	EDB	1	0	0	1
F25	0	0	107062	EDC	1	0	0	1
F25	0	0	111762	EGBE	1	0	0	1
F25	0	0	50000	Formaldehyde	1	0	0	1
F25	0	0	67630	Isopropyl Alcoh	1	0	0	1
F25	0	0	7439921	Lead	1	0.287249985	0.000156316	1
F25	0	0	7439965	Manganese	1	0.205040394	0.000111579	1
F25	0	0	7439976	Mercury	1	0.012476515	6.79E-06	1
F25	0	0	67561	Methanol	1	0	0	1
F25	0	0	74839	Methyl Bromide	1	0	0	1
F25	0	0	71556	1,1,1-TCA	1	0	0	1
F25	0	0	78933	MEK	1	0	0	1
F25	0	0	1634044	Me t-ButylEther	1	0	0	1
F25	0	0	75092	Methylene Chlor	1	0	0	1
F25	0	0	91203	Naphthalene	1	0	0	1
F25	0	0	110543	Hexane	1	0	0	1
F25	0	0	7440020	Nickel	1	0.006354318	3.46E-06	1
F25	0	0	9901	DieselExhPM	1	0	0	1
F25	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
F25	0	0	106445	p-Cresol	1	0	0	1
F25	0	0	127184	Perc	1	0	0	1
F25	0	0	108952	Phenol	1	0	0	1
F25	0	0	115071	Propylene	1	0	0	1
F25	0	0	7782492	Selenium	1	0.02766111	1.51E-05	1
F25	0	0	100425	Styrene	1	0	0	1

DRAFT

F25	0	0	108883	Toluene	1	0	0	1
F25	0	0	79016	TCE	1	0	0	1
F25	0	0	7440622	Vanadium	1	0.00887147	4.88E-06	1
F25	0	0	108054	Vinyl Acetate	1	0	0	1
F25	0	0	75014	Vinyl Chloride	1	0	0	1
F25	0	0	75354	Vinylid Chlorid	1	0	0	1
F25	0	0	1330207	Xylenes	1	0	0	1
S31	0	0	79345	TetraClEthane	1	0	0	1
S31	0	0	79005	1,1,2TriClEthan	1	0	0	1
S31	0	0	75343	1,1-DiClEthane	1	0	0	1
S31	0	0	106990	1,3-Butadiene	1	0	0	1
S31	0	0	106467	p-DiClBenzene	1	0	0	1
S31	0	0	123911	1,4-Dioxane	1	0	0	1
S31	0	0	75070	Acetaldehyde	1	0	0	1
S31	0	0	107028	Acrolein	1	0	0	1
S31	0	0	107131	Acrylonitrile	1	0	0	1
S31	0	0	107051	AllylChlor	1	0	0	1
S31	0	0	7664417	NH3	1	0	0	1
S31	0	0	7440382	Arsenic	1	0	0	1
S31	0	0	71432	Benzene	1	0	0	1
S31	0	0	100447	Benzyl Chloride	1	0	0	1
S31	0	0	7440417	Beryllium	1	0	0	1
S31	0	0	7440439	Cadmium	1	0	0	1
S31	0	0	75150	CS2	1	0	0	1
S31	0	0	56235	CCl4	1	0	0	1
S31	0	0	108907	Chlorobenzn	1	0	0	1
S31	0	0	67663	Chloroform	1	0	0	1
S31	0	0	18540299	Cr(VI)	1	0	0	1
S31	0	0	7440508	Copper	1	0	0	1
S31	0	0	100414	Ethyl Benzene	1	0	0	1
S31	0	0	75003	Ethyl Chloride	1	0	0	1
S31	0	0	106934	EDB	1	0	0	1
S31	0	0	107062	EDC	1	0	0	1
S31	0	0	111762	EGBE	1	0	0	1
S31	0	0	50000	Formaldehyde	1	0	0	1
S31	0	0	67630	Isopropyl Alcoh	1	0	0	1
S31	0	0	7439921	Lead	1	0	0	1
S31	0	0	7439965	Manganese	1	0	0	1
S31	0	0	7439976	Mercury	1	0	0	1
S31	0	0	67561	Methanol	1	0	0	1
S31	0	0	74839	Methyl Bromide	1	0	0	1
S31	0	0	71556	1,1,1-TCA	1	0	0	1
S31	0	0	78933	MEK	1	0	0	1
S31	0	0	1634044	Me t-ButylEther	1	0	0	1
S31	0	0	75092	Methylene Chlor	1	0	0	1
S31	0	0	91203	Naphthalene	1	0	0	1
S31	0	0	110543	Hexane	1	0	0	1
S31	0	0	7440020	Nickel	1	0	0	1
S31	0	0	9901	DieselExhPM	1	6.864	0.528	1
S31	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S31	0	0	106445	p-Cresol	1	0	0	1
S31	0	0	127184	Perc	1	0	0	1
S31	0	0	108952	Phenol	1	0	0	1
S31	0	0	115071	Propylene	1	0	0	1
S31	0	0	7782492	Selenium	1	0	0	1
S31	0	0	100425	Styrene	1	0	0	1
S31	0	0	108883	Toluene	1	0	0	1

DRAFT

S31	0	0	79016	TCE	1	0	0	1
S31	0	0	7440622	Vanadium	1	0	0	1
S31	0	0	108054	Vinyl Acetate	1	0	0	1
S31	0	0	75014	Vinyl Chloride	1	0	0	1
S31	0	0	75354	Vinylid Chlorid	1	0	0	1
S31	0	0	1330207	Xylenes	1	0	0	1
S32	0	0	79345	TetraClEthane	1	0	0	1
S32	0	0	79005	1,1,2TriClEthan	1	0	0	1
S32	0	0	75343	1,1-DiClEthane	1	0	0	1
S32	0	0	106990	1,3-Butadiene	1	0	0	1
S32	0	0	106467	p-DiClBenzene	1	0	0	1
S32	0	0	123911	1,4-Dioxane	1	0	0	1
S32	0	0	75070	Acetaldehyde	1	0	0	1
S32	0	0	107028	Acrolein	1	0	0	1
S32	0	0	107131	Acrylonitrile	1	0	0	1
S32	0	0	107051	AllylChlor	1	0	0	1
S32	0	0	7664417	NH3	1	0	0	1
S32	0	0	7440382	Arsenic	1	0	0	1
S32	0	0	71432	Benzene	1	0	0	1
S32	0	0	100447	Benzyl Chloride	1	0	0	1
S32	0	0	7440417	Beryllium	1	0	0	1
S32	0	0	7440439	Cadmium	1	0	0	1
S32	0	0	75150	CS2	1	0	0	1
S32	0	0	56235	CCl4	1	0	0	1
S32	0	0	108907	Chlorobenzn	1	0	0	1
S32	0	0	67663	Chloroform	1	0	0	1
S32	0	0	18540299	Cr(VI)	1	0	0	1
S32	0	0	7440508	Copper	1	0	0	1
S32	0	0	100414	Ethyl Benzene	1	0	0	1
S32	0	0	75003	Ethyl Chloride	1	0	0	1
S32	0	0	106934	EDB	1	0	0	1
S32	0	0	107062	EDC	1	0	0	1
S32	0	0	111762	EGBE	1	0	0	1
S32	0	0	50000	Formaldehyde	1	0	0	1
S32	0	0	67630	Isopropyl Alcoh	1	259.3136	0.135483	1
S32	0	0	7439921	Lead	1	0	0	1
S32	0	0	7439965	Manganese	1	0	0	1
S32	0	0	7439976	Mercury	1	0	0	1
S32	0	0	67561	Methanol	1	0	0	1
S32	0	0	74839	Methyl Bromide	1	0	0	1
S32	0	0	71556	1,1,1-TCA	1	0	0	1
S32	0	0	78933	MEK	1	265.8785	0.138912	1
S32	0	0	1634044	Me t-ButylEther	1	0	0	1
S32	0	0	75092	Methylene Chlor	1	0	0	1
S32	0	0	91203	Naphthalene	1	0	0	1
S32	0	0	110543	Hexane	1	0	0	1
S32	0	0	7440020	Nickel	1	0	0	1
S32	0	0	9901	DieselExhPM	1	0	0	1
S32	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S32	0	0	106445	p-Cresol	1	0	0	1
S32	0	0	127184	Perc	1	0	0	1
S32	0	0	108952	Phenol	1	0	0	1
S32	0	0	115071	Propylene	1	0	0	1
S32	0	0	7782492	Selenium	1	0	0	1
S32	0	0	100425	Styrene	1	0	0	1
S32	0	0	108883	Toluene	1	0	0	1
S32	0	0	79016	TCE	1	0	0	1

DRAFT

S32	0	0	7440622	Vanadium	1	0	0	1
S32	0	0	108054	Vinyl Acetate	1	0	0	1
S32	0	0	75014	Vinyl Chloride	1	0	0	1
S32	0	0	75354	Vinylid Chlorid	1	0	0	1
S32	0	0	1330207	Xylenes	1	0	0	1
S37	0	0	79345	TetraClEthane	1	0	0	1
S37	0	0	79005	1,1,2TriClEthan	1	0	0	1
S37	0	0	75343	1,1-DiClEthane	1	0	0	1
S37	0	0	106990	1,3-Butadiene	1	0	0	1
S37	0	0	106467	p-DiClBenzene	1	0	0	1
S37	0	0	123911	1,4-Dioxane	1	0	0	1
S37	0	0	75070	Acetaldehyde	1	0.172	1.96E-05	1
S37	0	0	107028	Acrolein	1	0.0594	6.78E-06	1
S37	0	0	107131	Acrylonitrile	1	0	0	1
S37	0	0	107051	AllylChlor	1	0	0	1
S37	0	0	7664417	NH3	1	0	0	1
S37	0	0	7440382	Arsenic	1	0.00245	2.8E-07	1
S37	0	0	71432	Benzene	1	0.137	1.57E-05	1
S37	0	0	100447	Benzyl Chloride	1	0	0	1
S37	0	0	7440417	Beryllium	1	0.000147	1.68E-08	1
S37	0	0	7440439	Cadmium	1	0.0135	1.54E-06	1
S37	0	0	75150	CS2	1	0	0	1
S37	0	0	56235	CCl4	1	0	0	1
S37	0	0	108907	Chlorobenzn	1	0	0	1
S37	0	0	67663	Chloroform	1	0	0	1
S37	0	0	18540299	Cr(VI)	1	0	0	1
S37	0	0	7440508	Copper	1	0.0104	1.19E-06	1
S37	0	0	100414	Ethyl Benzene	1	0.0276	3.15E-06	1
S37	0	0	75003	Ethyl Chloride	1	0	0	1
S37	0	0	106934	EDB	1	0	0	1
S37	0	0	107062	EDC	1	0	0	1
S37	0	0	111762	EGBE	1	0	0	1
S37	0	0	50000	Formaldehyde	1	0.908	0.000104	1
S37	0	0	67630	Isopropyl Alcoh	1	0	0	1
S37	0	0	7439921	Lead	1	0.00613	7E-07	1
S37	0	0	7439965	Manganese	1	0.00466	5.32E-07	1
S37	0	0	7439976	Mercury	1	0.00319	3.64E-07	1
S37	0	0	67561	Methanol	1	0	0	1
S37	0	0	74839	Methyl Bromide	1	0	0	1
S37	0	0	71556	1,1,1-TCA	1	0	0	1
S37	0	0	78933	MEK	1	0	0	1
S37	0	0	1634044	Me t-ButylEther	1	0	0	1
S37	0	0	75092	Methylene Chlor	1	0	0	1
S37	0	0	91203	Naphthalene	1	0.0137	1.57E-06	1
S37	0	0	110543	Hexane	1	22.08	0.00252	1
S37	0	0	7440020	Nickel	1	0.0258	2.94E-06	1
S37	0	0	9901	DieselExhPM	1	0	0	1
S37	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S37	0	0	106445	p-Cresol	1	0	0	1
S37	0	0	127184	Perc	1	0	0	1
S37	0	0	108952	Phenol	1	0	0	1
S37	0	0	115071	Propylene	1	2.88	0.000329	1
S37	0	0	7782492	Selenium	1	0.000294	3.36E-08	1
S37	0	0	100425	Styrene	1	0	0	1
S37	0	0	108883	Toluene	1	0.362	4.13E-05	1
S37	0	0	79016	TCE	1	0	0	1
S37	0	0	7440622	Vanadium	1	0.0282	3.22E-06	1

DRAFT

S37	0	0	108054	Vinyl Acetate	1	0	0	1
S37	0	0	75014	Vinyl Chloride	1	0	0	1
S37	0	0	75354	Vinylid Chlorid	1	0	0	1
S37	0	0	1330207	Xylenes	1	0.175	2E-05	1
S46	0	0	79345	TetraClEthane	1	0	0	1
S46	0	0	79005	1,1,2TriClEthan	1	0	0	1
S46	0	0	75343	1,1-DiClEthane	1	0	0	1
S46	0	0	106990	1,3-Butadiene	1	0	0	1
S46	0	0	106467	p-DiClBenzene	1	0	0	1
S46	0	0	123911	1,4-Dioxane	1	0	0	1
S46	0	0	75070	Acetaldehyde	1	0	0	1
S46	0	0	107028	Acrolein	1	0	0	1
S46	0	0	107131	Acrylonitrile	1	0	0	1
S46	0	0	107051	AllylChlor	1	0	0	1
S46	0	0	7664417	NH3	1	0	0	1
S46	0	0	7440382	Arsenic	1	0.0069	3.42E-06	1
S46	0	0	71432	Benzene	1	0	0	1
S46	0	0	100447	Benzyl Chloride	1	0	0	1
S46	0	0	7440417	Beryllium	1	0	0	1
S46	0	0	7440439	Cadmium	1	0	0	1
S46	0	0	75150	CS2	1	0	0	1
S46	0	0	56235	CCl4	1	0	0	1
S46	0	0	108907	Chlorobenzn	1	0	0	1
S46	0	0	67663	Chloroform	1	0	0	1
S46	0	0	18540299	Cr(VI)	1	0	0	1
S46	0	0	7440508	Copper	1	0.0504	2.5E-05	1
S46	0	0	100414	Ethyl Benzene	1	0	0	1
S46	0	0	75003	Ethyl Chloride	1	0	0	1
S46	0	0	106934	EDB	1	0	0	1
S46	0	0	107062	EDC	1	0	0	1
S46	0	0	111762	EGBE	1	0	0	1
S46	0	0	50000	Formaldehyde	1	0	0	1
S46	0	0	67630	Isopropyl Alcoh	1	0	0	1
S46	0	0	7439921	Lead	1	0.0292	1.45E-05	1
S46	0	0	7439965	Manganese	1	0.8226	0.0004081	1
S46	0	0	7439976	Mercury	1	0	0	1
S46	0	0	67561	Methanol	1	0	0	1
S46	0	0	74839	Methyl Bromide	1	0	0	1
S46	0	0	71556	1,1,1-TCA	1	0	0	1
S46	0	0	78933	MEK	1	0	0	1
S46	0	0	1634044	Me t-ButylEther	1	0	0	1
S46	0	0	75092	Methylene Chlor	1	0	0	1
S46	0	0	91203	Naphthalene	1	0	0	1
S46	0	0	110543	Hexane	1	0	0	1
S46	0	0	7440020	Nickel	1	0.021	1.04E-05	1
S46	0	0	9901	DieselExhPM	1	0	0	1
S46	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S46	0	0	106445	p-Cresol	1	0	0	1
S46	0	0	127184	Perc	1	0	0	1
S46	0	0	108952	Phenol	1	0	0	1
S46	0	0	115071	Propylene	1	0	0	1
S46	0	0	7782492	Selenium	1	0	0	1
S46	0	0	100425	Styrene	1	0	0	1
S46	0	0	108883	Toluene	1	0	0	1
S46	0	0	79016	TCE	1	0	0	1
S46	0	0	7440622	Vanadium	1	0.0149	7.37E-06	1
S46	0	0	108054	Vinyl Acetate	1	0	0	1

DRAFT

S46	0	0	75014	Vinyl Chloride	1	0	0	1
S46	0	0	75354	Vinylid Chlorid	1	0	0	1
S46	0	0	1330207	Xylenes	1	0	0	1
S47	0	0	79345	TetraClEthane	1	0	0	1
S47	0	0	79005	1,1,2TriClEthan	1	0	0	1
S47	0	0	75343	1,1-DiClEthane	1	0	0	1
S47	0	0	106990	1,3-Butadiene	1	0	0	1
S47	0	0	106467	p-DiClBenzene	1	0	0	1
S47	0	0	123911	1,4-Dioxane	1	0	0	1
S47	0	0	75070	Acetaldehyde	1	0	0	1
S47	0	0	107028	Acrolein	1	0	0	1
S47	0	0	107131	Acrylonitrile	1	0	0	1
S47	0	0	107051	AllylChlor	1	0	0	1
S47	0	0	7664417	NH3	1	0	0	1
S47	0	0	7440382	Arsenic	1	0	0	1
S47	0	0	71432	Benzene	1	0	0	1
S47	0	0	100447	Benzyl Chloride	1	0	0	1
S47	0	0	7440417	Beryllium	1	0	0	1
S47	0	0	7440439	Cadmium	1	0	0	1
S47	0	0	75150	CS2	1	0	0	1
S47	0	0	56235	CCl4	1	0	0	1
S47	0	0	108907	Chlorobenzn	1	0	0	1
S47	0	0	67663	Chloroform	1	0	0	1
S47	0	0	18540299	Cr(VI)	1	0	0	1
S47	0	0	7440508	Copper	1	0	0	1
S47	0	0	100414	Ethyl Benzene	1	0	0	1
S47	0	0	75003	Ethyl Chloride	1	0	0	1
S47	0	0	106934	EDB	1	0	0	1
S47	0	0	107062	EDC	1	0	0	1
S47	0	0	111762	EGBE	1	0	0	1
S47	0	0	50000	Formaldehyde	1	0	0	1
S47	0	0	67630	Isopropyl Alcoh	1	0	0	1
S47	0	0	7439921	Lead	1	0	0	1
S47	0	0	7439965	Manganese	1	0	0	1
S47	0	0	7439976	Mercury	1	0	0	1
S47	0	0	67561	Methanol	1	0	0	1
S47	0	0	74839	Methyl Bromide	1	0	0	1
S47	0	0	71556	1,1,1-TCA	1	0	0	1
S47	0	0	78933	MEK	1	0	0	1
S47	0	0	1634044	Me t-ButylEther	1	0	0	1
S47	0	0	75092	Methylene Chlor	1	0	0	1
S47	0	0	91203	Naphthalene	1	0	0	1
S47	0	0	110543	Hexane	1	0	0	1
S47	0	0	7440020	Nickel	1	0	0	1
S47	0	0	9901	DieselExhPM	1	0	0	1
S47	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S47	0	0	106445	p-Cresol	1	0	0	1
S47	0	0	127184	Perc	1	0	0	1
S47	0	0	108952	Phenol	1	0	0	1
S47	0	0	115071	Propylene	1	0	0	1
S47	0	0	7782492	Selenium	1	0	0	1
S47	0	0	100425	Styrene	1	0	0	1
S47	0	0	108883	Toluene	1	0	0	1
S47	0	0	79016	TCE	1	0	0	1
S47	0	0	7440622	Vanadium	1	0	0	1
S47	0	0	108054	Vinyl Acetate	1	0	0	1
S47	0	0	75014	Vinyl Chloride	1	0	0	1

DRAFT

S47	0	0	75354	Vinylid Chlorid	1	0	0	1
S47	0	0	1330207	Xylenes	1	0	0	1
S49	0	0	79345	TetraClEthane	1	0	0	1
S49	0	0	79005	1,1,2TriClEthan	1	0	0	1
S49	0	0	75343	1,1-DiClEthane	1	0	0	1
S49	0	0	106990	1,3-Butadiene	1	0	0	1
S49	0	0	106467	p-DiClBenzene	1	0	0	1
S49	0	0	123911	1,4-Dioxane	1	0	0	1
S49	0	0	75070	Acetaldehyde	1	0	0	1
S49	0	0	107028	Acrolein	1	0	0	1
S49	0	0	107131	Acrylonitrile	1	0	0	1
S49	0	0	107051	AllylChlor	1	0	0	1
S49	0	0	7664417	NH3	1	0	0	1
S49	0	0	7440382	Arsenic	1	0.038269689	1.56E-05	1
S49	0	0	71432	Benzene	1	0	0	1
S49	0	0	100447	Benzyl Chloride	1	0	0	1
S49	0	0	7440417	Beryllium	1	0.006157495	2.51E-06	1
S49	0	0	7440439	Cadmium	1	0.005936708	2.42E-06	1
S49	0	0	75150	CS2	1	0	0	1
S49	0	0	56235	CCl4	1	0	0	1
S49	0	0	108907	Chlorobenzn	1	0	0	1
S49	0	0	67663	Chloroform	1	0	0	1
S49	0	0	18540299	Cr(VI)	1	0.010303378	4.2E-06	1
S49	0	0	7440508	Copper	1	0.036061822	1.47E-05	1
S49	0	0	100414	Ethyl Benzene	1	0	0	1
S49	0	0	75003	Ethyl Chloride	1	0	0	1
S49	0	0	106934	EDB	1	0	0	1
S49	0	0	107062	EDC	1	0	0	1
S49	0	0	111762	EGBE	1	0	0	1
S49	0	0	50000	Formaldehyde	1	0	0	1
S49	0	0	67630	Isopropyl Alcoh	1	0	0	1
S49	0	0	7439921	Lead	1	0.022888218	9.33E-06	1
S49	0	0	7439965	Manganese	1	1.552866222	0.000633	1
S49	0	0	7439976	Mercury	1	0.094202311	3.84E-05	1
S49	0	0	67561	Methanol	1	0	0	1
S49	0	0	74839	Methyl Bromide	1	0	0	1
S49	0	0	71556	1,1,1-TCA	1	0	0	1
S49	0	0	78933	MEK	1	0	0	1
S49	0	0	1634044	Me t-ButylEther	1	0	0	1
S49	0	0	75092	Methylene Chlor	1	0	0	1
S49	0	0	91203	Naphthalene	1	0	0	1
S49	0	0	110543	Hexane	1	0	0	1
S49	0	0	7440020	Nickel	1	0.007850193	3.2E-06	1
S49	0	0	9901	DieselExhPM	1	0	0	1
S49	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S49	0	0	106445	p-Cresol	1	0	0	1
S49	0	0	127184	Perc	1	0	0	1
S49	0	0	108952	Phenol	1	0	0	1
S49	0	0	115071	Propylene	1	0	0	1
S49	0	0	7782492	Selenium	1	0.131490726	5.36E-05	1
S49	0	0	100425	Styrene	1	0	0	1
S49	0	0	108883	Toluene	1	0	0	1
S49	0	0	79016	TCE	1	0	0	1
S49	0	0	7440622	Vanadium	1	0.024858943	1.01E-05	1
S49	0	0	108054	Vinyl Acetate	1	0	0	1
S49	0	0	75014	Vinyl Chloride	1	0	0	1
S49	0	0	75354	Vinylid Chlorid	1	0	0	1

DRAFT

S49	0	0	1330207	Xylenes	1	0	0	1
F49	0	0	79345	TetraClEthane	1	0	0	1
F49	0	0	79005	1,1,2TriClEthan	1	0	0	1
F49	0	0	75343	1,1-DiClEthane	1	0	0	1
F49	0	0	106990	1,3-Butadiene	1	0	0	1
F49	0	0	106467	p-DiClBenzene	1	0	0	1
F49	0	0	123911	1,4-Dioxane	1	0	0	1
F49	0	0	75070	Acetaldehyde	1	0	0	1
F49	0	0	107028	Acrolein	1	0	0	1
F49	0	0	107131	Acrylonitrile	1	0	0	1
F49	0	0	107051	AllylChlor	1	0	0	1
F49	0	0	7664417	NH3	1	0	0	1
F49	0	0	7440382	Arsenic	1	0.099752965	4.07E-05	1
F49	0	0	71432	Benzene	1	0	0	1
F49	0	0	100447	Benzyl Chloride	1	0	0	1
F49	0	0	7440417	Beryllium	1	0.016049996	6.54E-06	1
F49	0	0	7440439	Cadmium	1	0.015474498	6.31E-06	1
F49	0	0	75150	CS2	1	0	0	1
F49	0	0	56235	CCl4	1	0	0	1
F49	0	0	108907	Chlorobenzn	1	0	0	1
F49	0	0	67663	Chloroform	1	0	0	1
F49	0	0	18540299	Cr(VI)	1	0.026856568	1.09E-05	1
F49	0	0	7440508	Copper	1	0.093997987	3.83E-05	1
F49	0	0	100414	Ethyl Benzene	1	0	0	1
F49	0	0	75003	Ethyl Chloride	1	0	0	1
F49	0	0	106934	EDB	1	0	0	1
F49	0	0	107062	EDC	1	0	0	1
F49	0	0	111762	EGBE	1	0	0	1
F49	0	0	50000	Formaldehyde	1	0	0	1
F49	0	0	67630	Isopropyl Alcoh	1	0	0	1
F49	0	0	7439921	Lead	1	0.059659947	2.43E-05	1
F49	0	0	7439965	Manganese	1	4.047668403	0.001649964	1
F49	0	0	7439976	Mercury	1	0.245545761	0.000100093	1
F49	0	0	67561	Methanol	1	0	0	1
F49	0	0	74839	Methyl Bromide	1	0	0	1
F49	0	0	71556	1,1,1-TCA	1	0	0	1
F49	0	0	78933	MEK	1	0	0	1
F49	0	0	1634044	Me t-ButylEther	1	0	0	1
F49	0	0	75092	Methylene Chlor	1	0	0	1
F49	0	0	91203	Naphthalene	1	0	0	1
F49	0	0	110543	Hexane	1	0	0	1
F49	0	0	7440020	Nickel	1	0.020462147	8.34E-06	1
F49	0	0	9901	DieselExhPM	1	0	0	1
F49	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
F49	0	0	106445	p-Cresol	1	0	0	1
F49	0	0	127184	Perc	1	0	0	1
F49	0	0	108952	Phenol	1	0	0	1
F49	0	0	115071	Propylene	1	0	0	1
F49	0	0	7782492	Selenium	1	0.342740958	0.000139713	1
F49	0	0	100425	Styrene	1	0	0	1
F49	0	0	108883	Toluene	1	0	0	1
F49	0	0	79016	TCE	1	0	0	1
F49	0	0	7440622	Vanadium	1	0.064796798	2.64E-05	1
F49	0	0	108054	Vinyl Acetate	1	0	0	1
F49	0	0	75014	Vinyl Chloride	1	0	0	1
F49	0	0	75354	Vinylid Chlorid	1	0	0	1
F49	0	0	1330207	Xylenes	1	0	0	1

DRAFT

S51	0	0	79345	TetraClEthane	1	0	0	1
S51	0	0	79005	1,1,2TriClEthan	1	0	0	1
S51	0	0	75343	1,1-DiClEthane	1	0	0	1
S51	0	0	106990	1,3-Butadiene	1	0	0	1
S51	0	0	106467	p-DiClBenzene	1	0	0	1
S51	0	0	123911	1,4-Dioxane	1	0	0	1
S51	0	0	75070	Acetaldehyde	1	0	0	1
S51	0	0	107028	Acrolein	1	0	0	1
S51	0	0	107131	Acrylonitrile	1	0	0	1
S51	0	0	107051	AllylChlor	1	0	0	1
S51	0	0	7664417	NH3	1	5.5372	0.0027686	1
S51	0	0	7440382	Arsenic	1	0	0	1
S51	0	0	71432	Benzene	1	0	0	1
S51	0	0	100447	Benzyl Chloride	1	0	0	1
S51	0	0	7440417	Beryllium	1	0	0	1
S51	0	0	7440439	Cadmium	1	0	0	1
S51	0	0	75150	CS2	1	0	0	1
S51	0	0	56235	CCl4	1	0	0	1
S51	0	0	108907	Chlorobenzn	1	0	0	1
S51	0	0	67663	Chloroform	1	0	0	1
S51	0	0	18540299	Cr(VI)	1	0	0	1
S51	0	0	7440508	Copper	1	0	0	1
S51	0	0	100414	Ethyl Benzene	1	0	0	1
S51	0	0	75003	Ethyl Chloride	1	0	0	1
S51	0	0	106934	EDB	1	0	0	1
S51	0	0	107062	EDC	1	0	0	1
S51	0	0	111762	EGBE	1	94.59645	0.047298225	1
S51	0	0	50000	Formaldehyde	1	0	0	1
S51	0	0	67630	Isopropyl Alcoh	1	0	0	1
S51	0	0	7439921	Lead	1	0	0	1
S51	0	0	7439965	Manganese	1	0	0	1
S51	0	0	7439976	Mercury	1	0	0	1
S51	0	0	67561	Methanol	1	0	0	1
S51	0	0	74839	Methyl Bromide	1	0	0	1
S51	0	0	71556	1,1,1-TCA	1	0	0	1
S51	0	0	78933	MEK	1	0	0	1
S51	0	0	1634044	Me t-ButylEther	1	0	0	1
S51	0	0	75092	Methylene Chlor	1	0	0	1
S51	0	0	91203	Naphthalene	1	0	0	1
S51	0	0	110543	Hexane	1	0	0	1
S51	0	0	7440020	Nickel	1	0	0	1
S51	0	0	9901	DieselExhPM	1	0	0	1
S51	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S51	0	0	106445	p-Cresol	1	0	0	1
S51	0	0	127184	Perc	1	0	0	1
S51	0	0	108952	Phenol	1	0	0	1
S51	0	0	115071	Propylene	1	0	0	1
S51	0	0	7782492	Selenium	1	0	0	1
S51	0	0	100425	Styrene	1	0	0	1
S51	0	0	108883	Toluene	1	0	0	1
S51	0	0	79016	TCE	1	0	0	1
S51	0	0	7440622	Vanadium	1	0	0	1
S51	0	0	108054	Vinyl Acetate	1	0	0	1
S51	0	0	75014	Vinyl Chloride	1	0	0	1
S51	0	0	75354	Vinylid Chlorid	1	0	0	1
S51	0	0	1330207	Xylenes	1	0	0	1
S5354	0	0	79345	TetraClEthane	1	0	0	1

DRAFT

S5354	0	0	79005	1,1,2TriClEthan	1	0	0	1
S5354	0	0	75343	1,1-DiClEthane	1	0	0	1
S5354	0	0	106990	1,3-Butadiene	1	0	0	1
S5354	0	0	106467	p-DiClBenzene	1	0	0	1
S5354	0	0	123911	1,4-Dioxane	1	0	0	1
S5354	0	0	75070	Acetaldehyde	1	0	0	1
S5354	0	0	107028	Acrolein	1	0	0	1
S5354	0	0	107131	Acrylonitrile	1	0	0	1
S5354	0	0	107051	AllylChlor	1	0	0	1
S5354	0	0	7664417	NH3	1	0	0	1
S5354	0	0	7440382	Arsenic	1	0	0	1
S5354	0	0	71432	Benzene	1	0	0	1
S5354	0	0	100447	Benzyl Chloride	1	0	0	1
S5354	0	0	7440417	Beryllium	1	0	0	1
S5354	0	0	7440439	Cadmium	1	0.431953909	0.000267308	1
S5354	0	0	75150	CS2	1	0	0	1
S5354	0	0	56235	CCl4	1	0	0	1
S5354	0	0	108907	Chlorobenzn	1	0	0	1
S5354	0	0	67663	Chloroform	1	0	0	1
S5354	0	0	18540299	Cr(VI)	1	0.292685116	0.000181124	1
S5354	0	0	7440508	Copper	1	3.945732823	0.002441757	1
S5354	0	0	100414	Ethyl Benzene	1	0	0	1
S5354	0	0	75003	Ethyl Chloride	1	0	0	1
S5354	0	0	106934	EDB	1	0	0	1
S5354	0	0	107062	EDC	1	0	0	1
S5354	0	0	111762	EGBE	1	0	0	1
S5354	0	0	50000	Formaldehyde	1	0	0	1
S5354	0	0	67630	Isopropyl Alcoh	1	0	0	1
S5354	0	0	7439921	Lead	1	4.921782521	0.003045771	1
S5354	0	0	7439965	Manganese	1	17.65196263	0.010923652	1
S5354	0	0	7439976	Mercury	1	0	0	1
S5354	0	0	67561	Methanol	1	0	0	1
S5354	0	0	74839	Methyl Bromide	1	0	0	1
S5354	0	0	71556	1,1,1-TCA	1	0	0	1
S5354	0	0	78933	MEK	1	0	0	1
S5354	0	0	1634044	Me t-ButylEther	1	0	0	1
S5354	0	0	75092	Methylene Chlor	1	0	0	1
S5354	0	0	91203	Naphthalene	1	0	0	1
S5354	0	0	110543	Hexane	1	0	0	1
S5354	0	0	7440020	Nickel	1	0	0	1
S5354	0	0	9901	DieselExhPM	1	0	0	1
S5354	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S5354	0	0	106445	p-Cresol	1	0	0	1
S5354	0	0	127184	Perc	1	0	0	1
S5354	0	0	108952	Phenol	1	0	0	1
S5354	0	0	115071	Propylene	1	0	0	1
S5354	0	0	7782492	Selenium	1	0.04257238	2.63E-05	1
S5354	0	0	100425	Styrene	1	0	0	1
S5354	0	0	108883	Toluene	1	0	0	1
S5354	0	0	79016	TCE	1	0	0	1
S5354	0	0	7440622	Vanadium	1	0	0	1
S5354	0	0	108054	Vinyl Acetate	1	0	0	1
S5354	0	0	75014	Vinyl Chloride	1	0	0	1
S5354	0	0	75354	Vinylid Chlorid	1	0	0	1
S5354	0	0	1330207	Xylenes	1	0	0	1
S55	0	0	79345	TetraClEthane	1	0	0	1
S55	0	0	79005	1,1,2TriClEthan	1	0	0	1

DRAFT

S55	0	0	75343	1,1-DiClEthane	1	0	0	1
S55	0	0	106990	1,3-Butadiene	1	0	0	1
S55	0	0	106467	p-DiClBenzene	1	0	0	1
S55	0	0	123911	1,4-Dioxane	1	0	0	1
S55	0	0	75070	Acetaldehyde	1	0	0	1
S55	0	0	107028	Acrolein	1	0	0	1
S55	0	0	107131	Acrylonitrile	1	0	0	1
S55	0	0	107051	AllylChlor	1	0	0	1
S55	0	0	7664417	NH3	1	0	0	1
S55	0	0	7440382	Arsenic	1	0	0	1
S55	0	0	71432	Benzene	1	0	0	1
S55	0	0	100447	Benzyl Chloride	1	0	0	1
S55	0	0	7440417	Beryllium	1	0	0	1
S55	0	0	7440439	Cadmium	1	0.121441151	0.000142369	1
S55	0	0	75150	CS2	1	0	0	1
S55	0	0	56235	CCl4	1	0	0	1
S55	0	0	108907	Chlorobenzn	1	0	0	1
S55	0	0	67663	Chloroform	1	0	0	1
S55	0	0	18540299	Cr(VI)	1	0.082286597	9.64673E-05	1
S55	0	0	7440508	Copper	1	1.109318206	0.00130049	1
S55	0	0	100414	Ethyl Benzene	1	0	0	1
S55	0	0	75003	Ethyl Chloride	1	0	0	1
S55	0	0	106934	EDB	1	0	0	1
S55	0	0	107062	EDC	1	0	0	1
S55	0	0	111762	EGBE	1	0	0	1
S55	0	0	50000	Formaldehyde	1	0	0	1
S55	0	0	67630	Isopropyl Alcoh	1	0	0	1
S55	0	0	7439921	Lead	1	1.383728499	0.001622191	1
S55	0	0	7439965	Manganese	1	4.962739343	0.005817983	1
S55	0	0	7439976	Mercury	1	0	0	1
S55	0	0	67561	Methanol	1	0	0	1
S55	0	0	74839	Methyl Bromide	1	0	0	1
S55	0	0	71556	1,1,1-TCA	1	0	0	1
S55	0	0	78933	MEK	1	0	0	1
S55	0	0	1634044	Me t-ButylEther	1	0	0	1
S55	0	0	75092	Methylene Chlor	1	0	0	1
S55	0	0	91203	Naphthalene	1	0	0	1
S55	0	0	110543	Hexane	1	0	0	1
S55	0	0	7440020	Nickel	1	0	0	1
S55	0	0	9901	DieselExhPM	1	0	0	1
S55	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S55	0	0	106445	p-Cresol	1	0	0	1
S55	0	0	127184	Perc	1	0	0	1
S55	0	0	108952	Phenol	1	0	0	1
S55	0	0	115071	Propylene	1	0	0	1
S55	0	0	7782492	Selenium	1	0.01196896	1.4E-05	1
S55	0	0	100425	Styrene	1	0	0	1
S55	0	0	108883	Toluene	1	0	0	1
S55	0	0	79016	TCE	1	0	0	1
S55	0	0	7440622	Vanadium	1	0	0	1
S55	0	0	108054	Vinyl Acetate	1	0	0	1
S55	0	0	75014	Vinyl Chloride	1	0	0	1
S55	0	0	75354	Vinylid Chlorid	1	0	0	1
S55	0	0	1330207	Xylenes	1	0	0	1
S5657	0	0	79345	TetraClEthane	1	0	0	1
S5657	0	0	79005	1,1,2TriClEthan	1	0	0	1
S5657	0	0	75343	1,1-DiClEthane	1	0	0	1

DRAFT

S5657	0	0	106990	1,3-Butadiene	1	0	0	1
S5657	0	0	106467	p-DiClBenzene	1	0	0	1
S5657	0	0	123911	1,4-Dioxane	1	0	0	1
S5657	0	0	75070	Acetaldehyde	1	0	0	1
S5657	0	0	107028	Acrolein	1	0	0	1
S5657	0	0	107131	Acrylonitrile	1	0	0	1
S5657	0	0	107051	AllylChlor	1	0	0	1
S5657	0	0	7664417	NH3	1	0	0	1
S5657	0	0	7440382	Arsenic	1	0	0	1
S5657	0	0	71432	Benzene	1	0	0	1
S5657	0	0	100447	Benzyl Chloride	1	0	0	1
S5657	0	0	7440417	Beryllium	1	0	0	1
S5657	0	0	7440439	Cadmium	1	0.306971444	0.000159798	1
S5657	0	0	75150	CS2	1	0	0	1
S5657	0	0	56235	CCl4	1	0	0	1
S5657	0	0	108907	Chlorobenzn	1	0	0	1
S5657	0	0	67663	Chloroform	1	0	0	1
S5657	0	0	18540299	Cr(VI)	1	0.20799898	0.000108276	1
S5657	0	0	7440508	Copper	1	2.804066077	0.001459691	1
S5657	0	0	100414	Ethyl Benzene	1	0	0	1
S5657	0	0	75003	Ethyl Chloride	1	0	0	1
S5657	0	0	106934	EDB	1	0	0	1
S5657	0	0	107062	EDC	1	0	0	1
S5657	0	0	111762	EGBE	1	0	0	1
S5657	0	0	50000	Formaldehyde	1	0	0	1
S5657	0	0	67630	Isopropyl Alcoh	1	0	0	1
S5657	0	0	7439921	Lead	1	3.497703475	0.001820772	1
S5657	0	0	7439965	Manganese	1	12.54450614	0.006530196	1
S5657	0	0	7439976	Mercury	1	0	0	1
S5657	0	0	67561	Methanol	1	0	0	1
S5657	0	0	74839	Methyl Bromide	1	0	0	1
S5657	0	0	71556	1,1,1-TCA	1	0	0	1
S5657	0	0	78933	MEK	1	0	0	1
S5657	0	0	1634044	Me t-ButylEther	1	0	0	1
S5657	0	0	75092	Methylene Chlor	1	0	0	1
S5657	0	0	91203	Naphthalene	1	0	0	1
S5657	0	0	110543	Hexane	1	0	0	1
S5657	0	0	7440020	Nickel	1	0	0	1
S5657	0	0	9901	DieselExhPM	1	0	0	1
S5657	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S5657	0	0	106445	p-Cresol	1	0	0	1
S5657	0	0	127184	Perc	1	0	0	1
S5657	0	0	108952	Phenol	1	0	0	1
S5657	0	0	115071	Propylene	1	0	0	1
S5657	0	0	7782492	Selenium	1	0.030254397	1.57E-05	1
S5657	0	0	100425	Styrene	1	0	0	1
S5657	0	0	108883	Toluene	1	0	0	1
S5657	0	0	79016	TCE	1	0	0	1
S5657	0	0	7440622	Vanadium	1	0	0	1
S5657	0	0	108054	Vinyl Acetate	1	0	0	1
S5657	0	0	75014	Vinyl Chloride	1	0	0	1
S5657	0	0	75354	Vinylid Chlorid	1	0	0	1
S5657	0	0	1330207	Xylenes	1	0	0	1
PCV	0	0	79345	TetraClEthane	1	0	0	1
PCV	0	0	79005	1,1,2TriClEthan	1	0	0	1
PCV	0	0	75343	1,1-DiClEthane	1	0	0	1
PCV	0	0	106990	1,3-Butadiene	1	0	0	1

DRAFT

PCV	0	0	106467	p-DiClBenzene	1	0	0	1
PCV	0	0	123911	1,4-Dioxane	1	0	0	1
PCV	0	0	75070	Acetaldehyde	1	0	0	1
PCV	0	0	107028	Acrolein	1	0	0	1
PCV	0	0	107131	Acrylonitrile	1	0	0	1
PCV	0	0	107051	AllylChlor	1	0	0	1
PCV	0	0	7664417	NH3	1	0	0	1
PCV	0	0	7440382	Arsenic	1	0	0	1
PCV	0	0	71432	Benzene	1	0	0	1
PCV	0	0	100447	Benzyl Chloride	1	0	0	1
PCV	0	0	7440417	Beryllium	1	0	0	1
PCV	0	0	7440439	Cadmium	1	0.860366504	0.000569475	1
PCV	0	0	75150	CS2	1	0	0	1
PCV	0	0	56235	CCl4	1	0	0	1
PCV	0	0	108907	Chlorobenzn	1	0	0	1
PCV	0	0	67663	Chloroform	1	0	0	1
PCV	0	0	18540299	Cr(VI)	1	0.582970693	0.000385867	1
PCV	0	0	7440508	Copper	1	7.859117106	0.005201939	1
PCV	0	0	100414	Ethyl Benzene	1	0	0	1
PCV	0	0	75003	Ethyl Chloride	1	0	0	1
PCV	0	0	106934	EDB	1	0	0	1
PCV	0	0	107062	EDC	1	0	0	1
PCV	0	0	111762	EGBE	1	0	0	1
PCV	0	0	50000	Formaldehyde	1	0	0	1
PCV	0	0	67630	Isopropyl Alcoh	1	0	0	1
PCV	0	0	7439921	Lead	1	9.803214496	0.006488734	1
PCV	0	0	7439965	Manganese	1	35.15920811	0.02327183	1
PCV	0	0	7439976	Mercury	1	0	0	1
PCV	0	0	67561	Methanol	1	0	0	1
PCV	0	0	74839	Methyl Bromide	1	0	0	1
PCV	0	0	71556	1,1,1-TCA	1	0	0	1
PCV	0	0	78933	MEK	1	0	0	1
PCV	0	0	1634044	Me t-ButylEther	1	0	0	1
PCV	0	0	75092	Methylene Chlor	1	0	0	1
PCV	0	0	91203	Naphthalene	1	0	0	1
PCV	0	0	110543	Hexane	1	0	0	1
PCV	0	0	7440020	Nickel	1	0	0	1
PCV	0	0	9901	DieselExhPM	1	0	0	1
PCV	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
PCV	0	0	106445	p-Cresol	1	0	0	1
PCV	0	0	127184	Perc	1	0	0	1
PCV	0	0	108952	Phenol	1	0	0	1
PCV	0	0	115071	Propylene	1	0	0	1
PCV	0	0	7782492	Selenium	1	0.084795737	5.61E-05	1
PCV	0	0	100425	Styrene	1	0	0	1
PCV	0	0	108883	Toluene	1	0	0	1
PCV	0	0	79016	TCE	1	0	0	1
PCV	0	0	7440622	Vanadium	1	0	0	1
PCV	0	0	108054	Vinyl Acetate	1	0	0	1
PCV	0	0	75014	Vinyl Chloride	1	0	0	1
PCV	0	0	75354	Vinylid Chlorid	1	0	0	1
PCV	0	0	1330207	Xylenes	1	0	0	1
S64	0	0	79345	TetraClEthane	1	0	0	1
S64	0	0	79005	1,1,2TriClEthan	1	0	0	1
S64	0	0	75343	1,1-DiClEthane	1	0	0	1
S64	0	0	106990	1,3-Butadiene	1	0	0	1
S64	0	0	106467	p-DiClBenzene	1	0	0	1

DRAFT

S64	0	0	123911	1,4-Dioxane	1	0	0	1
S64	0	0	75070	Acetaldehyde	1	0	0	1
S64	0	0	107028	Acrolein	1	0	0	1
S64	0	0	107131	Acrylonitrile	1	0	0	1
S64	0	0	107051	AllylChlor	1	0	0	1
S64	0	0	7664417	NH3	1	0	0	1
S64	0	0	7440382	Arsenic	1	0.000475074	8.48E-06	1
S64	0	0	71432	Benzene	1	0	0	1
S64	0	0	100447	Benzyl Chloride	1	0	0	1
S64	0	0	7440417	Beryllium	1	7.4E-05	1.32E-06	1
S64	0	0	7440439	Cadmium	1	7.11E-05	1.27E-06	1
S64	0	0	75150	CS2	1	0	0	1
S64	0	0	56235	CCl4	1	0	0	1
S64	0	0	108907	Chlorobenzn	1	0	0	1
S64	0	0	67663	Chloroform	1	0	0	1
S64	0	0	18540299	Cr(VI)	1	0.000112046	2E-06	1
S64	0	0	7440508	Copper	1	0.001613457	2.88E-05	1
S64	0	0	100414	Ethyl Benzene	1	0	0	1
S64	0	0	75003	Ethyl Chloride	1	0	0	1
S64	0	0	106934	EDB	1	0	0	1
S64	0	0	107062	EDC	1	0	0	1
S64	0	0	111762	EGBE	1	0	0	1
S64	0	0	50000	Formaldehyde	1	0	0	1
S64	0	0	67630	Isopropyl Alcoh	1	0	0	1
S64	0	0	7439921	Lead	1	0.016638778	0.000297	1
S64	0	0	7439965	Manganese	1	0.011876838	0.000212	1
S64	0	0	7439976	Mercury	1	0.000722694	1.29E-05	1
S64	0	0	67561	Methanol	1	0	0	1
S64	0	0	74839	Methyl Bromide	1	0	0	1
S64	0	0	71556	1,1,1-TCA	1	0	0	1
S64	0	0	78933	MEK	1	0	0	1
S64	0	0	1634044	Me t-ButylEther	1	0	0	1
S64	0	0	75092	Methylene Chlor	1	0	0	1
S64	0	0	91203	Naphthalene	1	0	0	1
S64	0	0	110543	Hexane	1	0	0	1
S64	0	0	7440020	Nickel	1	0.00036807	6.57E-06	1
S64	0	0	9901	DieselExhPM	1	0	0	1
S64	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
S64	0	0	106445	p-Cresol	1	0	0	1
S64	0	0	127184	Perc	1	0	0	1
S64	0	0	108952	Phenol	1	0	0	1
S64	0	0	115071	Propylene	1	0	0	1
S64	0	0	7782492	Selenium	1	0.001602253	2.86E-05	1
S64	0	0	100425	Styrene	1	0	0	1
S64	0	0	108883	Toluene	1	0	0	1
S64	0	0	79016	TCE	1	0	0	1
S64	0	0	7440622	Vanadium	1	0.000514026	9.28E-06	1
S64	0	0	108054	Vinyl Acetate	1	0	0	1
S64	0	0	75014	Vinyl Chloride	1	0	0	1
S64	0	0	75354	Vinylid Chlorid	1	0	0	1
S64	0	0	1330207	Xylenes	1	0	0	1
F64	0	0	79345	TetraClEthane	1	0	0	1
F64	0	0	79005	1,1,2TriClEthan	1	0	0	1
F64	0	0	75343	1,1-DiClEthane	1	0	0	1
F64	0	0	106990	1,3-Butadiene	1	0	0	1
F64	0	0	106467	p-DiClBenzene	1	0	0	1
F64	0	0	123911	1,4-Dioxane	1	0	0	1

DRAFT

F64	0	0	75070	Acetaldehyde	1	0	0	1
F64	0	0	107028	Acrolein	1	0	0	1
F64	0	0	107131	Acrylonitrile	1	0	0	1
F64	0	0	107051	AllylChlor	1	0	0	1
F64	0	0	7664417	NH3	1	0	0	1
F64	0	0	7440382	Arsenic	1	0.000250039	4.46E-06	1
F64	0	0	71432	Benzene	1	0	0	1
F64	0	0	100447	Benzyl Chloride	1	0	0	1
F64	0	0	7440417	Beryllium	1	3.89211E-05	6.95E-07	1
F64	0	0	7440439	Cadmium	1	3.74468E-05	6.68E-07	1
F64	0	0	75150	CS2	1	0	0	1
F64	0	0	56235	CCl4	1	0	0	1
F64	0	0	108907	Chlorobenzn	1	0	0	1
F64	0	0	67663	Chloroform	1	0	0	1
F64	0	0	18540299	Cr(VI)	1	5.89714E-05	1.05E-06	1
F64	0	0	7440508	Copper	1	0.000849188	1.52E-05	1
F64	0	0	100414	Ethyl Benzene	1	0	0	1
F64	0	0	75003	Ethyl Chloride	1	0	0	1
F64	0	0	106934	EDB	1	0	0	1
F64	0	0	107062	EDC	1	0	0	1
F64	0	0	111762	EGBE	1	0	0	1
F64	0	0	50000	Formaldehyde	1	0	0	1
F64	0	0	67630	Isopropyl Alcoh	1	0	0	1
F64	0	0	7439921	Lead	1	0.008757252	0.000156316	1
F64	0	0	7439965	Manganese	1	0.006250967	0.000111579	1
F64	0	0	7439976	Mercury	1	0.000380365	6.79E-06	1
F64	0	0	67561	Methanol	1	0	0	1
F64	0	0	74839	Methyl Bromide	1	0	0	1
F64	0	0	71556	1,1,1-TCA	1	0	0	1
F64	0	0	78933	MEK	1	0	0	1
F64	0	0	1634044	Me t-ButylEther	1	0	0	1
F64	0	0	75092	Methylene Chlor	1	0	0	1
F64	0	0	91203	Naphthalene	1	0	0	1
F64	0	0	110543	Hexane	1	0	0	1
F64	0	0	7440020	Nickel	1	0.000193721	3.46E-06	1
F64	0	0	9901	DieselExhPM	1	0	0	1
F64	0	0	1746016	2,3,7,8-TCDD	1	0	0	1
F64	0	0	106445	p-Cresol	1	0	0	1
F64	0	0	127184	Perc	1	0	0	1
F64	0	0	108952	Phenol	1	0	0	1
F64	0	0	115071	Propylene	1	0	0	1
F64	0	0	7782492	Selenium	1	0.000843291	1.51E-05	1
F64	0	0	100425	Styrene	1	0	0	1
F64	0	0	108883	Toluene	1	0	0	1
F64	0	0	79016	TCE	1	0	0	1
F64	0	0	7440622	Vanadium	1	0.00027054	4.88E-06	1
F64	0	0	108054	Vinyl Acetate	1	0	0	1
F64	0	0	75014	Vinyl Chloride	1	0	0	1
F64	0	0	75354	Vinylid Chlorid	1	0	0	1
F64	0	0	1330207	Xylenes	1	0	0	1

Background

PolID	PolAbbrev	Conc (ug/m^3)	MWAF

Ground level concentration files (\glc\)

DRAFT

```
100414MAXHR.txt
100414PER.txt
100425MAXHR.txt
100425PER.txt
100447MAXHR.txt
100447PER.txt
106445MAXHR.txt
106445PER.txt
106467MAXHR.txt
106467PER.txt
106934MAXHR.txt
106934PER.txt
106990MAXHR.txt
106990PER.txt
107028MAXHR.txt
107028PER.txt
107051MAXHR.txt
107051PER.txt
107062MAXHR.txt
107062PER.txt
107131MAXHR.txt
107131PER.txt
108054MAXHR.txt
108054PER.txt
108883MAXHR.txt
108883PER.txt
108907MAXHR.txt
108907PER.txt
108952MAXHR.txt
108952PER.txt
110543MAXHR.txt
110543PER.txt
111762MAXHR.txt
111762PER.txt
115071MAXHR.txt
115071PER.txt
123911MAXHR.txt
123911PER.txt
127184MAXHR.txt
127184PER.txt
1330207MAXHR.txt
1330207PER.txt
1634044MAXHR.txt
1634044PER.txt
1746016MAXHR.txt
1746016PER.txt
18540299MAXHR.txt
18540299PER.txt
50000MAXHR.txt
50000PER.txt
56235MAXHR.txt
56235PER.txt
67561MAXHR.txt
67561PER.txt
67630MAXHR.txt
67630PER.txt
67663MAXHR.txt
```

DRAFT

```
67663PER.txt
71432MAXHR.txt
71432PER.txt
71556MAXHR.txt
71556PER.txt
7439921MAXHR.txt
7439921PER.txt
7439965MAXHR.txt
7439965PER.txt
7439976MAXHR.txt
7439976PER.txt
7440020MAXHR.txt
7440020PER.txt
7440382MAXHR.txt
7440382PER.txt
7440417MAXHR.txt
7440417PER.txt
7440439MAXHR.txt
7440439PER.txt
7440508MAXHR.txt
7440508PER.txt
7440622MAXHR.txt
7440622PER.txt
74839MAXHR.txt
74839PER.txt
75003MAXHR.txt
75003PER.txt
75014MAXHR.txt
75014PER.txt
75070MAXHR.txt
75070PER.txt
75092MAXHR.txt
75092PER.txt
75150MAXHR.txt
75150PER.txt
75343MAXHR.txt
75343PER.txt
75354MAXHR.txt
75354PER.txt
7664417MAXHR.txt
7664417PER.txt
7782492MAXHR.txt
7782492PER.txt
78933MAXHR.txt
78933PER.txt
79005MAXHR.txt
79005PER.txt
79016MAXHR.txt
79016PER.txt
79345MAXHR.txt
79345PER.txt
91203MAXHR.txt
91203PER.txt
9901MAXHR.txt
9901PER.txt

***POLLUTANT HEALTH INFORMATION***
```

DRAFT

Health Database: \\cifs-02\home\User Data\Rhull\Documents\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH19252
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronicREL	OralChronicREL	InhChronic8HRREL
79345	TetraClEthane	0.2					
79005	1,1,2TriClEthan	0.057					
75343	1,1-DiClEthane	0.0057					
106990	1,3-Butadiene	0.6		660	2		9
106467	p-DiClBenzene	0.04			800		
123911	1,4-Dioxane	0.027		3000	3000		
75070	Acetaldehyde	0.01		470	140		300
107028	Acrolein			2.5	0.35		0.7
107131	Acrylonitrile	1			5		
107051	AllylChlor	0.021					
7664417	NH3			3200	200		
7440382	Arsenic	12	1.5	0.2	0.015	3.5E-06	0.015
71432	Benzene	0.1		27	3		3
100447	Benzyl Chloride	0.17		240			
7440417	Beryllium	8.4			0.007	0.002	
7440439	Cadmium	15			0.02	0.0005	
75150	CS2			6200	800		
56235	CCl4	0.15		1900	40		
108907	Chlorobenzn				1000		
67663	Chloroform	0.019		150	300		
18540299	Cr(VI)	510	0.5		0.2	0.02	
7440508	Copper			100			
100414	Ethyl Benzene	0.0087			2000		
75003	Ethyl Chloride				30000		
106934	EDB	0.25			0.8		
107062	EDC	0.072			400		
111762	EGBE			4700	82		164
50000	Formaldehyde	0.021		55	9		9
67630	Isopropyl Alcoh			3200	7000		
7439921	Lead	0.042	0.0085				
7439965	Manganese				0.09		0.17
7439976	Mercury			0.6	0.03	0.00016	0.06
67561	Methanol			28000	4000		
74839	Methyl Bromide			3900	5		
71556	1,1,1-TCA			68000	1000		
78933	MEK			13000			
1634044	Me t-ButylEther	0.0018			8000		
75092	Methylene Chlor	0.0035		14000	400		
91203	Naphthalene	0.12			9		
110543	Hexane				7000		
7440020	Nickel	0.91		0.2	0.014	0.011	0.06
9901	DieselExhPM	1.1			5		
1746016	2,3,7,8-TCDD	130000	130000		4E-05	1E-08	
106445	p-Cresol				600		
127184	Perc	0.021		20000	35		
108952	Phenol			5800	200		
115071	Propylene				3000		
7782492	Selenium				20	0.005	
100425	Styrene			21000	900		
108883	Toluene			37000	300		
79016	TCE	0.007			600		

DRAFT

```
7440622         Vanadium                                        30
108054          Vinyl Acetate                                                   200
75014           Vinyl Chloride  0.27                            180000
75354           Vinylid Chlorid                                                 70
1330207         Xylenes                                         22000           700

***LIST OF RISK ASSESSMENT FILES***
Health risk analysis files (\hra\)
________
AS2F.PMICntGLCList.csv
AS2F.PMICntHRAInput.hra
AS2F.PMICntNCAcuteRisk.csv
AS2F.PMICntNCAcuteRiskSumByRec.csv
AS2F.PMICntPathwayRec.csv
AS2F.PMICntPolDB.csv
AS2F.ResCaCntCancerRisk.csv
AS2F.ResCaCntCancerRiskSumByRec.csv
AS2F.ResCaCntGLCList.csv
AS2F.ResCaCntHRAInput.hra
AS2F.ResCaCntPathwayRec.csv
AS2F.ResCaCntPolDB.csv
AS2F.ResChCntGLCList.csv
AS2F.ResChCntHRAInput.hra
AS2F.ResChCntNCChronicRisk.csv
AS2F.ResChCntNCChronicRiskSumByRec.csv
AS2F.ResChCntPathwayRec.csv
AS2F.ResChCntPolDB.csv
AS2F.StuCaCntCancerRisk.csv
AS2F.StuCaCntCancerRiskSumByRec.csv
AS2F.StuCaCntGLCList.csv
AS2F.StuCaCntHRAInput.hra
AS2F.StuCaCntPathwayRec.csv
AS2F.StuCaCntPolDB.csv
AS2F.WkrCaCntCancerRisk.csv
AS2F.WkrCaCntCancerRiskSumByRec.csv
AS2F.WkrCaCntGLCList.csv
AS2F.WkrCaCntHRAInput.hra
AS2F.WkrCaCntPathwayRec.csv
AS2F.WkrCaCntPolDB.csv
AS2F.WkrChCntGLCList.csv
AS2F.WkrChCntHRAInput.hra
AS2F.WkrChCntNCChronicRisk.csv
AS2F.WkrChCntNCChronicRiskSumByRec.csv
AS2F.WkrChCntPathwayRec.csv
AS2F.WkrChCntPolDB.csv
B2S2.PMICntGLCList.csv
B2S2.PMICntHRAInput.hra
B2S2.PMICntNCAcuteRisk.csv
B2S2.PMICntNCAcuteRiskSumByRec.csv
B2S2.PMICntPathwayRec.csv
B2S2.PMICntPolDB.csv
B2S2.ResCaCntCancerRisk.csv
B2S2.ResCaCntCancerRiskSumByRec.csv
B2S2.ResCaCntGLCList.csv
B2S2.ResCaCntHRAInput.hra
B2S2.ResCaCntPathwayRec.csv
B2S2.ResCaCntPolDB.csv
```

DRAFT

B2S2.ResChCntGLCList.csv
B2S2.ResChCntHRAInput.hra
B2S2.ResChCntNCChronicRisk.csv
B2S2.ResChCntNCChronicRiskSumByRec.csv
B2S2.ResChCntPathwayRec.csv
B2S2.ResChCntPolDB.csv
B2S2.StuCaCntCancerRisk.csv
B2S2.StuCaCntCancerRiskSumByRec.csv
B2S2.StuCaCntGLCList.csv
B2S2.StuCaCntHRAInput.hra
B2S2.StuCaCntPathwayRec.csv
B2S2.StuCaCntPolDB.csv
B2S2.WkrCaCntCancerRisk.csv
B2S2.WkrCaCntCancerRiskSumByRec.csv
B2S2.WkrCaCntGLCList.csv
B2S2.WkrCaCntHRAInput.hra
B2S2.WkrCaCntPathwayRec.csv
B2S2.WkrCaCntPolDB.csv
B2S2.WkrChCntGLCList.csv
B2S2.WkrChCntHRAInput.hra
B2S2.WkrChCntNCChronicRisk.csv
B2S2.WkrChCntNCChronicRiskSumByRec.csv
B2S2.WkrChCntPathwayRec.csv
B2S2.WkrChCntPolDB.csv
B4S2.PMICntGLCList.csv
B4S2.PMICntHRAInput.hra
B4S2.PMICntNCAcuteRisk.csv
B4S2.PMICntNCAcuteRiskSumByRec.csv
B4S2.PMICntPathwayRec.csv
B4S2.PMICntPolDB.csv
B4S2.ResCaCntCancerRisk.csv
B4S2.ResCaCntCancerRiskSumByRec.csv
B4S2.ResCaCntGLCList.csv
B4S2.ResCaCntHRAInput.hra
B4S2.ResCaCntPathwayRec.csv
B4S2.ResCaCntPolDB.csv
B4S2.ResChCntGLCList.csv
B4S2.ResChCntHRAInput.hra
B4S2.ResChCntNCChronicRisk.csv
B4S2.ResChCntNCChronicRiskSumByRec.csv
B4S2.ResChCntPathwayRec.csv
B4S2.ResChCntPolDB.csv
B4S2.StuCaCntCancerRisk.csv
B4S2.StuCaCntCancerRiskSumByRec.csv
B4S2.StuCaCntGLCList.csv
B4S2.StuCaCntHRAInput.hra
B4S2.StuCaCntPathwayRec.csv
B4S2.StuCaCntPolDB.csv
B4S2.WkrCaCntCancerRisk.csv
B4S2.WkrCaCntCancerRiskSumByRec.csv
B4S2.WkrCaCntGLCList.csv
B4S2.WkrCaCntHRAInput.hra
B4S2.WkrCaCntPathwayRec.csv
B4S2.WkrCaCntPolDB.csv
B4S2.WkrChCntGLCList.csv
B4S2.WkrChCntHRAInput.hra
B4S2.WkrChCntNCChronicRisk.csv

DRAFT

B4S2.WkrChCntNCChronicRiskSumByRec.csv
B4S2.WkrChCntPathwayRec.csv
B4S2.WkrChCntPolDB.csv
B5S2.PMICntGLCList.csv
B5S2.PMICntHRAInput.hra
B5S2.PMICntNCAcuteRisk.csv
B5S2.PMICntNCAcuteRiskSumByRec.csv
B5S2.PMICntPathwayRec.csv
B5S2.PMICntPolDB.csv
B5S2.ResCaCntCancerRisk.csv
B5S2.ResCaCntCancerRiskSumByRec.csv
B5S2.ResCaCntGLCList.csv
B5S2.ResCaCntHRAInput.hra
B5S2.ResCaCntPathwayRec.csv
B5S2.ResCaCntPolDB.csv
B5S2.ResChCntGLCList.csv
B5S2.ResChCntHRAInput.hra
B5S2.ResChCntNCChronicRisk.csv
B5S2.ResChCntNCChronicRiskSumByRec.csv
B5S2.ResChCntPathwayRec.csv
B5S2.ResChCntPolDB.csv
B5S2.StuCaCntCancerRisk.csv
B5S2.StuCaCntCancerRiskSumByRec.csv
B5S2.StuCaCntGLCList.csv
B5S2.StuCaCntHRAInput.hra
B5S2.StuCaCntPathwayRec.csv
B5S2.StuCaCntPolDB.csv
B5S2.WkrCaCntCancerRisk.csv
B5S2.WkrCaCntCancerRiskSumByRec.csv
B5S2.WkrCaCntGLCList.csv
B5S2.WkrCaCntHRAInput.hra
B5S2.WkrCaCntPathwayRec.csv
B5S2.WkrCaCntPolDB.csv
B5S2.WkrChCntGLCList.csv
B5S2.WkrChCntHRAInput.hra
B5S2.WkrChCntNCChronicRisk.csv
B5S2.WkrChCntNCChronicRiskSumByRec.csv
B5S2.WkrChCntPathwayRec.csv
B5S2.WkrChCntPolDB.csv
BS2F.PMICntGLCList.csv
BS2F.PMICntHRAInput.hra
BS2F.PMICntNCAcuteRisk.csv
BS2F.PMICntNCAcuteRiskSumByRec.csv
BS2F.PMICntPathwayRec.csv
BS2F.PMICntPolDB.csv
BS2F.ResCaCntCancerRisk.csv
BS2F.ResCaCntCancerRiskSumByRec.csv
BS2F.ResCaCntGLCList.csv
BS2F.ResCaCntHRAInput.hra
BS2F.ResCaCntPathwayRec.csv
BS2F.ResCaCntPolDB.csv
BS2F.ResChCntGLCList.csv
BS2F.ResChCntHRAInput.hra
BS2F.ResChCntNCChronicRisk.csv
BS2F.ResChCntNCChronicRiskSumByRec.csv
BS2F.ResChCntPathwayRec.csv
BS2F.ResChCntPolDB.csv

DRAFT

BS2F.StuCaCntCancerRisk.csv
BS2F.StuCaCntCancerRiskSumByRec.csv
BS2F.StuCaCntGLCList.csv
BS2F.StuCaCntHRAInput.hra
BS2F.StuCaCntPathwayRec.csv
BS2F.StuCaCntPolDB.csv
BS2F.WkrCaCntCancerRisk.csv
BS2F.WkrCaCntCancerRiskSumByRec.csv
BS2F.WkrCaCntGLCList.csv
BS2F.WkrCaCntHRAInput.hra
BS2F.WkrCaCntPathwayRec.csv
BS2F.WkrCaCntPolDB.csv
BS2F.WkrChCntGLCList.csv
BS2F.WkrChCntHRAInput.hra
BS2F.WkrChCntNCChronicRisk.csv
BS2F.WkrChCntNCChronicRiskSumByRec.csv
BS2F.WkrChCntPathwayRec.csv
BS2F.WkrChCntPolDB.csv
CS2F.PMICntGLCList.csv
CS2F.PMICntHRAInput.hra
CS2F.PMICntNCAcuteRisk.csv
CS2F.PMICntNCAcuteRiskSumByRec.csv
CS2F.PMICntPathwayRec.csv
CS2F.PMICntPolDB.csv
CS2F.ResCaCntCancerRisk.csv
CS2F.ResCaCntCancerRiskSumByRec.csv
CS2F.ResCaCntGLCList.csv
CS2F.ResCaCntHRAInput.hra
CS2F.ResCaCntPathwayRec.csv
CS2F.ResCaCntPolDB.csv
CS2F.ResChCntGLCList.csv
CS2F.ResChCntHRAInput.hra
CS2F.ResChCntNCChronicRisk.csv
CS2F.ResChCntNCChronicRiskSumByRec.csv
CS2F.ResChCntPathwayRec.csv
CS2F.ResChCntPolDB.csv
CS2F.StuCaCntCancerRisk.csv
CS2F.StuCaCntCancerRiskSumByRec.csv
CS2F.StuCaCntGLCList.csv
CS2F.StuCaCntHRAInput.hra
CS2F.StuCaCntPathwayRec.csv
CS2F.StuCaCntPolDB.csv
CS2F.WkrCaCntCancerRisk.csv
CS2F.WkrCaCntCancerRiskSumByRec.csv
CS2F.WkrCaCntGLCList.csv
CS2F.WkrCaCntHRAInput.hra
CS2F.WkrCaCntPathwayRec.csv
CS2F.WkrCaCntPolDB.csv
CS2F.WkrChCntGLCList.csv
CS2F.WkrChCntHRAInput.hra
CS2F.WkrChCntNCChronicRisk.csv
CS2F.WkrChCntNCChronicRiskSumByRec.csv
CS2F.WkrChCntPathwayRec.csv
CS2F.WkrChCntPolDB.csv
F1.PMICntGLCList.csv
F1.PMICntHRAInput.hra
F1.PMICntNCAcuteRisk.csv

DRAFT

```
F1.PMICntNCAcuteRiskSumByRec.csv
F1.PMICntPathwayRec.csv
F1.PMICntPolDB.csv
F1.ResCaCntCancerRisk.csv
F1.ResCaCntCancerRiskSumByRec.csv
F1.ResCaCntGLCList.csv
F1.ResCaCntHRAInput.hra
F1.ResCaCntPathwayRec.csv
F1.ResCaCntPolDB.csv
F1.ResChCntGLCList.csv
F1.ResChCntHRAInput.hra
F1.ResChCntNCChronicRisk.csv
F1.ResChCntNCChronicRiskSumByRec.csv
F1.ResChCntPathwayRec.csv
F1.ResChCntPolDB.csv
F1.StuCaCntCancerRisk.csv
F1.StuCaCntCancerRiskSumByRec.csv
F1.StuCaCntGLCList.csv
F1.StuCaCntHRAInput.hra
F1.StuCaCntPathwayRec.csv
F1.StuCaCntPolDB.csv
F1.WkrCaCntCancerRisk.csv
F1.WkrCaCntCancerRiskSumByRec.csv
F1.WkrCaCntGLCList.csv
F1.WkrCaCntHRAInput.hra
F1.WkrCaCntPathwayRec.csv
F1.WkrCaCntPolDB.csv
F1.WkrChCntGLCList.csv
F1.WkrChCntHRAInput.hra
F1.WkrChCntNCChronicRisk.csv
F1.WkrChCntNCChronicRiskSumByRec.csv
F1.WkrChCntPathwayRec.csv
F1.WkrChCntPolDB.csv
F25.PMICntGLCList.csv
F25.PMICntHRAInput.hra
F25.PMICntNCAcuteRisk.csv
F25.PMICntNCAcuteRiskSumByRec.csv
F25.PMICntPathwayRec.csv
F25.PMICntPolDB.csv
F25.ResCaCntCancerRisk.csv
F25.ResCaCntCancerRiskSumByRec.csv
F25.ResCaCntGLCList.csv
F25.ResCaCntHRAInput.hra
F25.ResCaCntPathwayRec.csv
F25.ResCaCntPolDB.csv
F25.ResChCntGLCList.csv
F25.ResChCntHRAInput.hra
F25.ResChCntNCChronicRisk.csv
F25.ResChCntNCChronicRiskSumByRec.csv
F25.ResChCntPathwayRec.csv
F25.ResChCntPolDB.csv
F25.StuCaCntCancerRisk.csv
F25.StuCaCntCancerRiskSumByRec.csv
F25.StuCaCntGLCList.csv
F25.StuCaCntHRAInput.hra
F25.StuCaCntPathwayRec.csv
F25.StuCaCntPolDB.csv
```

DRAFT

F25.WkrCaCntCancerRisk.csv
F25.WkrCaCntCancerRiskSumByRec.csv
F25.WkrCaCntGLCList.csv
F25.WkrCaCntHRAInput.hra
F25.WkrCaCntPathwayRec.csv
F25.WkrCaCntPolDB.csv
F25.WkrChCntGLCList.csv
F25.WkrChCntHRAInput.hra
F25.WkrChCntNCChronicRisk.csv
F25.WkrChCntNCChronicRiskSumByRec.csv
F25.WkrChCntPathwayRec.csv
F25.WkrChCntPolDB.csv
F3.PMICntGLCList.csv
F3.PMICntHRAInput.hra
F3.PMICntNCAcuteRisk.csv
F3.PMICntNCAcuteRiskSumByRec.csv
F3.PMICntPathwayRec.csv
F3.PMICntPolDB.csv
F3.ResCaCntCancerRisk.csv
F3.ResCaCntCancerRiskSumByRec.csv
F3.ResCaCntGLCList.csv
F3.ResCaCntHRAInput.hra
F3.ResCaCntPathwayRec.csv
F3.ResCaCntPolDB.csv
F3.ResChCntGLCList.csv
F3.ResChCntHRAInput.hra
F3.ResChCntNCChronicRisk.csv
F3.ResChCntNCChronicRiskSumByRec.csv
F3.ResChCntPathwayRec.csv
F3.ResChCntPolDB.csv
F3.StuCaCntCancerRisk.csv
F3.StuCaCntCancerRiskSumByRec.csv
F3.StuCaCntGLCList.csv
F3.StuCaCntHRAInput.hra
F3.StuCaCntPathwayRec.csv
F3.StuCaCntPolDB.csv
F3.WkrCaCntCancerRisk.csv
F3.WkrCaCntCancerRiskSumByRec.csv
F3.WkrCaCntGLCList.csv
F3.WkrCaCntHRAInput.hra
F3.WkrCaCntPathwayRec.csv
F3.WkrCaCntPolDB.csv
F3.WkrChCntGLCList.csv
F3.WkrChCntHRAInput.hra
F3.WkrChCntNCChronicRisk.csv
F3.WkrChCntNCChronicRiskSumByRec.csv
F3.WkrChCntPathwayRec.csv
F3.WkrChCntPolDB.csv
F4.PMICntGLCList.csv
F4.PMICntHRAInput.hra
F4.PMICntNCAcuteRisk.csv
F4.PMICntNCAcuteRiskSumByRec.csv
F4.PMICntPathwayRec.csv
F4.PMICntPolDB.csv
F4.ResCaCntCancerRisk.csv
F4.ResCaCntCancerRiskSumByRec.csv
F4.ResCaCntGLCList.csv

DRAFT

```
F4.ResCaCntHRAInput.hra
F4.ResCaCntPathwayRec.csv
F4.ResCaCntPolDB.csv
F4.ResChCntGLCList.csv
F4.ResChCntHRAInput.hra
F4.ResChCntNCChronicRisk.csv
F4.ResChCntNCChronicRiskSumByRec.csv
F4.ResChCntPathwayRec.csv
F4.ResChCntPolDB.csv
F4.StuCaCntCancerRisk.csv
F4.StuCaCntCancerRiskSumByRec.csv
F4.StuCaCntGLCList.csv
F4.StuCaCntHRAInput.hra
F4.StuCaCntPathwayRec.csv
F4.StuCaCntPolDB.csv
F4.WkrCaCntCancerRisk.csv
F4.WkrCaCntCancerRiskSumByRec.csv
F4.WkrCaCntGLCList.csv
F4.WkrCaCntHRAInput.hra
F4.WkrCaCntPathwayRec.csv
F4.WkrCaCntPolDB.csv
F4.WkrChCntGLCList.csv
F4.WkrChCntHRAInput.hra
F4.WkrChCntNCChronicRisk.csv
F4.WkrChCntNCChronicRiskSumByRec.csv
F4.WkrChCntPathwayRec.csv
F4.WkrChCntPolDB.csv
F64.PMICntGLCList.csv
F64.PMICntHRAInput.hra
F64.PMICntNCAcuteRisk.csv
F64.PMICntNCAcuteRiskSumByRec.csv
F64.PMICntPathwayRec.csv
F64.PMICntPolDB.csv
F64.ResCaCntCancerRisk.csv
F64.ResCaCntCancerRiskSumByRec.csv
F64.ResCaCntGLCList.csv
F64.ResCaCntHRAInput.hra
F64.ResCaCntPathwayRec.csv
F64.ResCaCntPolDB.csv
F64.ResChCntGLCList.csv
F64.ResChCntHRAInput.hra
F64.ResChCntNCChronicRisk.csv
F64.ResChCntNCChronicRiskSumByRec.csv
F64.ResChCntPathwayRec.csv
F64.ResChCntPolDB.csv
F64.StuCaCntCancerRisk.csv
F64.StuCaCntCancerRiskSumByRec.csv
F64.StuCaCntGLCList.csv
F64.StuCaCntHRAInput.hra
F64.StuCaCntPathwayRec.csv
F64.StuCaCntPolDB.csv
F64.WkrCaCntCancerRisk.csv
F64.WkrCaCntCancerRiskSumByRec.csv
F64.WkrCaCntGLCList.csv
F64.WkrCaCntHRAInput.hra
F64.WkrCaCntPathwayRec.csv
F64.WkrCaCntPolDB.csv
```

DRAFT

F64.WkrChCntGLCList.csv
F64.WkrChCntHRAInput.hra
F64.WkrChCntNCChronicRisk.csv
F64.WkrChCntNCChronicRiskSumByRec.csv
F64.WkrChCntPathwayRec.csv
F64.WkrChCntPolDB.csv
PCV.PMICntGLCList.csv
PCV.PMICntHRAInput.hra
PCV.PMICntNCAcuteRisk.csv
PCV.PMICntNCAcuteRiskSumByRec.csv
PCV.PMICntPathwayRec.csv
PCV.PMICntPolDB.csv
PCV.ResCaCntCancerRisk.csv
PCV.ResCaCntCancerRiskSumByRec.csv
PCV.ResCaCntGLCList.csv
PCV.ResCaCntHRAInput.hra
PCV.ResCaCntPathwayRec.csv
PCV.ResCaCntPolDB.csv
PCV.ResChCntGLCList.csv
PCV.ResChCntHRAInput.hra
PCV.ResChCntNCChronicRisk.csv
PCV.ResChCntNCChronicRiskSumByRec.csv
PCV.ResChCntPathwayRec.csv
PCV.ResChCntPolDB.csv
PCV.StuCaCntCancerRisk.csv
PCV.StuCaCntCancerRiskSumByRec.csv
PCV.StuCaCntGLCList.csv
PCV.StuCaCntHRAInput.hra
PCV.StuCaCntPathwayRec.csv
PCV.StuCaCntPolDB.csv
PCV.WkrCaCntCancerRisk.csv
PCV.WkrCaCntCancerRiskSumByRec.csv
PCV.WkrCaCntGLCList.csv
PCV.WkrCaCntHRAInput.hra
PCV.WkrCaCntPathwayRec.csv
PCV.WkrCaCntPolDB.csv
PCV.WkrChCntGLCList.csv
PCV.WkrChCntHRAInput.hra
PCV.WkrChCntNCChronicRisk.csv
PCV.WkrChCntNCChronicRiskSumByRec.csv
PCV.WkrChCntPathwayRec.csv
PCV.WkrChCntPolDB.csv
PMICntNCAcuteRiskSumByRecBySrc.csv
PMICntOutput.txt
PMIGLCList.csv
PMIHRAInput.hra
PMINCAcuteRisk.csv
PMINCAcuteRiskSumByRec.csv
PMIOutput.txt
PMIPathwayRec.csv
PMIPolDB.csv
ResCaCancerRisk.csv
ResCaCancerRiskSumByRec.csv
ResCaCntCancerRiskSumByRecBySrc.csv
ResCaCntOutput.txt
ResCaGLCList.csv
ResCaHRAInput.hra

DRAFT

```
ResCaOutput.txt
ResCaPathwayRec.csv
ResCaPolDB.csv
ResChCntNCChronicRiskSumByRecBySrc.csv
ResChCntOutput.txt
ResChGLCList.csv
ResChHRAInput.hra
ResChNCChronicRisk.csv
ResChNCChronicRiskSumByRec.csv
ResChOutput.txt
ResChPathwayRec.csv
ResChPolDB.csv
S1.PMICntGLCList.csv
S1.PMICntHRAInput.hra
S1.PMICntNCAcuteRisk.csv
S1.PMICntNCAcuteRiskSumByRec.csv
S1.PMICntPathwayRec.csv
S1.PMICntPolDB.csv
S1.ResCaCntCancerRisk.csv
S1.ResCaCntCancerRiskSumByRec.csv
S1.ResCaCntGLCList.csv
S1.ResCaCntHRAInput.hra
S1.ResCaCntPathwayRec.csv
S1.ResCaCntPolDB.csv
S1.ResChCntGLCList.csv
S1.ResChCntHRAInput.hra
S1.ResChCntNCChronicRisk.csv
S1.ResChCntNCChronicRiskSumByRec.csv
S1.ResChCntPathwayRec.csv
S1.ResChCntPolDB.csv
S1.StuCaCntCancerRisk.csv
S1.StuCaCntCancerRiskSumByRec.csv
S1.StuCaCntGLCList.csv
S1.StuCaCntHRAInput.hra
S1.StuCaCntPathwayRec.csv
S1.StuCaCntPolDB.csv
S1.WkrCaCntCancerRisk.csv
S1.WkrCaCntCancerRiskSumByRec.csv
S1.WkrCaCntGLCList.csv
S1.WkrCaCntHRAInput.hra
S1.WkrCaCntPathwayRec.csv
S1.WkrCaCntPolDB.csv
S1.WkrChCntGLCList.csv
S1.WkrChCntHRAInput.hra
S1.WkrChCntNCChronicRisk.csv
S1.WkrChCntNCChronicRiskSumByRec.csv
S1.WkrChCntPathwayRec.csv
S1.WkrChCntPolDB.csv
S10.PMICntGLCList.csv
S10.PMICntHRAInput.hra
S10.PMICntNCAcuteRisk.csv
S10.PMICntNCAcuteRiskSumByRec.csv
S10.PMICntPathwayRec.csv
S10.PMICntPolDB.csv
S10.ResCaCntCancerRisk.csv
S10.ResCaCntCancerRiskSumByRec.csv
S10.ResCaCntGLCList.csv
```

DRAFT

```
S10.ResCaCntHRAInput.hra
S10.ResCaCntPathwayRec.csv
S10.ResCaCntPolDB.csv
S10.ResChCntGLCList.csv
S10.ResChCntHRAInput.hra
S10.ResChCntNCChronicRisk.csv
S10.ResChCntNCChronicRiskSumByRec.csv
S10.ResChCntPathwayRec.csv
S10.ResChCntPolDB.csv
S10.StuCaCntCancerRisk.csv
S10.StuCaCntCancerRiskSumByRec.csv
S10.StuCaCntGLCList.csv
S10.StuCaCntHRAInput.hra
S10.StuCaCntPathwayRec.csv
S10.StuCaCntPolDB.csv
S10.WkrCaCntCancerRisk.csv
S10.WkrCaCntCancerRiskSumByRec.csv
S10.WkrCaCntGLCList.csv
S10.WkrCaCntHRAInput.hra
S10.WkrCaCntPathwayRec.csv
S10.WkrCaCntPolDB.csv
S10.WkrChCntGLCList.csv
S10.WkrChCntHRAInput.hra
S10.WkrChCntNCChronicRisk.csv
S10.WkrChCntNCChronicRiskSumByRec.csv
S10.WkrChCntPathwayRec.csv
S10.WkrChCntPolDB.csv
S25.PMICntGLCList.csv
S25.PMICntHRAInput.hra
S25.PMICntNCAcuteRisk.csv
S25.PMICntNCAcuteRiskSumByRec.csv
S25.PMICntPathwayRec.csv
S25.PMICntPolDB.csv
S25.ResCaCntCancerRisk.csv
S25.ResCaCntCancerRiskSumByRec.csv
S25.ResCaCntGLCList.csv
S25.ResCaCntHRAInput.hra
S25.ResCaCntPathwayRec.csv
S25.ResCaCntPolDB.csv
S25.ResChCntGLCList.csv
S25.ResChCntHRAInput.hra
S25.ResChCntNCChronicRisk.csv
S25.ResChCntNCChronicRiskSumByRec.csv
S25.ResChCntPathwayRec.csv
S25.ResChCntPolDB.csv
S25.StuCaCntCancerRisk.csv
S25.StuCaCntCancerRiskSumByRec.csv
S25.StuCaCntGLCList.csv
S25.StuCaCntHRAInput.hra
S25.StuCaCntPathwayRec.csv
S25.StuCaCntPolDB.csv
S25.WkrCaCntCancerRisk.csv
S25.WkrCaCntCancerRiskSumByRec.csv
S25.WkrCaCntGLCList.csv
S25.WkrCaCntHRAInput.hra
S25.WkrCaCntPathwayRec.csv
S25.WkrCaCntPolDB.csv
```

DRAFT

S25.WkrChCntGLCList.csv
S25.WkrChCntHRAInput.hra
S25.WkrChCntNCChronicRisk.csv
S25.WkrChCntNCChronicRiskSumByRec.csv
S25.WkrChCntPathwayRec.csv
S25.WkrChCntPolDB.csv
S3.PMICntGLCList.csv
S3.PMICntHRAInput.hra
S3.PMICntNCAcuteRisk.csv
S3.PMICntNCAcuteRiskSumByRec.csv
S3.PMICntPathwayRec.csv
S3.PMICntPolDB.csv
S3.ResCaCntCancerRisk.csv
S3.ResCaCntCancerRiskSumByRec.csv
S3.ResCaCntGLCList.csv
S3.ResCaCntHRAInput.hra
S3.ResCaCntPathwayRec.csv
S3.ResCaCntPolDB.csv
S3.ResChCntGLCList.csv
S3.ResChCntHRAInput.hra
S3.ResChCntNCChronicRisk.csv
S3.ResChCntNCChronicRiskSumByRec.csv
S3.ResChCntPathwayRec.csv
S3.ResChCntPolDB.csv
S3.StuCaCntCancerRisk.csv
S3.StuCaCntCancerRiskSumByRec.csv
S3.StuCaCntGLCList.csv
S3.StuCaCntHRAInput.hra
S3.StuCaCntPathwayRec.csv
S3.StuCaCntPolDB.csv
S3.WkrCaCntCancerRisk.csv
S3.WkrCaCntCancerRiskSumByRec.csv
S3.WkrCaCntGLCList.csv
S3.WkrCaCntHRAInput.hra
S3.WkrCaCntPathwayRec.csv
S3.WkrCaCntPolDB.csv
S3.WkrChCntGLCList.csv
S3.WkrChCntHRAInput.hra
S3.WkrChCntNCChronicRisk.csv
S3.WkrChCntNCChronicRiskSumByRec.csv
S3.WkrChCntPathwayRec.csv
S3.WkrChCntPolDB.csv
S31.PMICntGLCList.csv
S31.PMICntHRAInput.hra
S31.PMICntNCAcuteRisk.csv
S31.PMICntNCAcuteRiskSumByRec.csv
S31.PMICntPathwayRec.csv
S31.PMICntPolDB.csv
S31.ResCaCntCancerRisk.csv
S31.ResCaCntCancerRiskSumByRec.csv
S31.ResCaCntGLCList.csv
S31.ResCaCntHRAInput.hra
S31.ResCaCntPathwayRec.csv
S31.ResCaCntPolDB.csv
S31.ResChCntGLCList.csv
S31.ResChCntHRAInput.hra
S31.ResChCntNCChronicRisk.csv

DRAFT

```
S31.ResChCntNCChronicRiskSumByRec.csv
S31.ResChCntPathwayRec.csv
S31.ResChCntPolDB.csv
S31.StuCaCntCancerRisk.csv
S31.StuCaCntCancerRiskSumByRec.csv
S31.StuCaCntGLCList.csv
S31.StuCaCntHRAInput.hra
S31.StuCaCntPathwayRec.csv
S31.StuCaCntPolDB.csv
S31.WkrCaCntCancerRisk.csv
S31.WkrCaCntCancerRiskSumByRec.csv
S31.WkrCaCntGLCList.csv
S31.WkrCaCntHRAInput.hra
S31.WkrCaCntPathwayRec.csv
S31.WkrCaCntPolDB.csv
S31.WkrChCntGLCList.csv
S31.WkrChCntHRAInput.hra
S31.WkrChCntNCChronicRisk.csv
S31.WkrChCntNCChronicRiskSumByRec.csv
S31.WkrChCntPathwayRec.csv
S31.WkrChCntPolDB.csv
S32.PMICntGLCList.csv
S32.PMICntHRAInput.hra
S32.PMICntNCAcuteRisk.csv
S32.PMICntNCAcuteRiskSumByRec.csv
S32.PMICntPathwayRec.csv
S32.PMICntPolDB.csv
S32.ResCaCntCancerRisk.csv
S32.ResCaCntCancerRiskSumByRec.csv
S32.ResCaCntGLCList.csv
S32.ResCaCntHRAInput.hra
S32.ResCaCntPathwayRec.csv
S32.ResCaCntPolDB.csv
S32.ResChCntGLCList.csv
S32.ResChCntHRAInput.hra
S32.ResChCntNCChronicRisk.csv
S32.ResChCntNCChronicRiskSumByRec.csv
S32.ResChCntPathwayRec.csv
S32.ResChCntPolDB.csv
S32.StuCaCntCancerRisk.csv
S32.StuCaCntCancerRiskSumByRec.csv
S32.StuCaCntGLCList.csv
S32.StuCaCntHRAInput.hra
S32.StuCaCntPathwayRec.csv
S32.StuCaCntPolDB.csv
S32.WkrCaCntCancerRisk.csv
S32.WkrCaCntCancerRiskSumByRec.csv
S32.WkrCaCntGLCList.csv
S32.WkrCaCntHRAInput.hra
S32.WkrCaCntPathwayRec.csv
S32.WkrCaCntPolDB.csv
S32.WkrChCntGLCList.csv
S32.WkrChCntHRAInput.hra
S32.WkrChCntNCChronicRisk.csv
S32.WkrChCntNCChronicRiskSumByRec.csv
S32.WkrChCntPathwayRec.csv
S32.WkrChCntPolDB.csv
```

DRAFT

S37.PMICntGLCList.csv
S37.PMICntHRAInput.hra
S37.PMICntNCAcuteRisk.csv
S37.PMICntNCAcuteRiskSumByRec.csv
S37.PMICntPathwayRec.csv
S37.PMICntPolDB.csv
S37.ResCaCntCancerRisk.csv
S37.ResCaCntCancerRiskSumByRec.csv
S37.ResCaCntGLCList.csv
S37.ResCaCntHRAInput.hra
S37.ResCaCntPathwayRec.csv
S37.ResCaCntPolDB.csv
S37.ResChCntGLCList.csv
S37.ResChCntHRAInput.hra
S37.ResChCntNCChronicRisk.csv
S37.ResChCntNCChronicRiskSumByRec.csv
S37.ResChCntPathwayRec.csv
S37.ResChCntPolDB.csv
S37.StuCaCntCancerRisk.csv
S37.StuCaCntCancerRiskSumByRec.csv
S37.StuCaCntGLCList.csv
S37.StuCaCntHRAInput.hra
S37.StuCaCntPathwayRec.csv
S37.StuCaCntPolDB.csv
S37.WkrCaCntCancerRisk.csv
S37.WkrCaCntCancerRiskSumByRec.csv
S37.WkrCaCntGLCList.csv
S37.WkrCaCntHRAInput.hra
S37.WkrCaCntPathwayRec.csv
S37.WkrCaCntPolDB.csv
S37.WkrChCntGLCList.csv
S37.WkrChCntHRAInput.hra
S37.WkrChCntNCChronicRisk.csv
S37.WkrChCntNCChronicRiskSumByRec.csv
S37.WkrChCntPathwayRec.csv
S37.WkrChCntPolDB.csv
S4.PMICntGLCList.csv
S4.PMICntHRAInput.hra
S4.PMICntNCAcuteRisk.csv
S4.PMICntNCAcuteRiskSumByRec.csv
S4.PMICntPathwayRec.csv
S4.PMICntPolDB.csv
S4.ResCaCntCancerRisk.csv
S4.ResCaCntCancerRiskSumByRec.csv
S4.ResCaCntGLCList.csv
S4.ResCaCntHRAInput.hra
S4.ResCaCntPathwayRec.csv
S4.ResCaCntPolDB.csv
S4.ResChCntGLCList.csv
S4.ResChCntHRAInput.hra
S4.ResChCntNCChronicRisk.csv
S4.ResChCntNCChronicRiskSumByRec.csv
S4.ResChCntPathwayRec.csv
S4.ResChCntPolDB.csv
S4.StuCaCntCancerRisk.csv
S4.StuCaCntCancerRiskSumByRec.csv
S4.StuCaCntGLCList.csv

DRAFT

```
S4.StuCaCntHRAInput.hra
S4.StuCaCntPathwayRec.csv
S4.StuCaCntPolDB.csv
S4.WkrCaCntCancerRisk.csv
S4.WkrCaCntCancerRiskSumByRec.csv
S4.WkrCaCntGLCList.csv
S4.WkrCaCntHRAInput.hra
S4.WkrCaCntPathwayRec.csv
S4.WkrCaCntPolDB.csv
S4.WkrChCntGLCList.csv
S4.WkrChCntHRAInput.hra
S4.WkrChCntNCChronicRisk.csv
S4.WkrChCntNCChronicRiskSumByRec.csv
S4.WkrChCntPathwayRec.csv
S4.WkrChCntPolDB.csv
S46.PMICntGLCList.csv
S46.PMICntHRAInput.hra
S46.PMICntNCAcuteRisk.csv
S46.PMICntNCAcuteRiskSumByRec.csv
S46.PMICntPathwayRec.csv
S46.PMICntPolDB.csv
S46.ResCaCntCancerRisk.csv
S46.ResCaCntCancerRiskSumByRec.csv
S46.ResCaCntGLCList.csv
S46.ResCaCntHRAInput.hra
S46.ResCaCntPathwayRec.csv
S46.ResCaCntPolDB.csv
S46.ResChCntGLCList.csv
S46.ResChCntHRAInput.hra
S46.ResChCntNCChronicRisk.csv
S46.ResChCntNCChronicRiskSumByRec.csv
S46.ResChCntPathwayRec.csv
S46.ResChCntPolDB.csv
S46.StuCaCntCancerRisk.csv
S46.StuCaCntCancerRiskSumByRec.csv
S46.StuCaCntGLCList.csv
S46.StuCaCntHRAInput.hra
S46.StuCaCntPathwayRec.csv
S46.StuCaCntPolDB.csv
S46.WkrCaCntCancerRisk.csv
S46.WkrCaCntCancerRiskSumByRec.csv
S46.WkrCaCntGLCList.csv
S46.WkrCaCntHRAInput.hra
S46.WkrCaCntPathwayRec.csv
S46.WkrCaCntPolDB.csv
S46.WkrChCntGLCList.csv
S46.WkrChCntHRAInput.hra
S46.WkrChCntNCChronicRisk.csv
S46.WkrChCntNCChronicRiskSumByRec.csv
S46.WkrChCntPathwayRec.csv
S46.WkrChCntPolDB.csv
S47.PMICntGLCList.csv
S47.PMICntHRAInput.hra
S47.PMICntNCAcuteRisk.csv
S47.PMICntNCAcuteRiskSumByRec.csv
S47.PMICntPathwayRec.csv
S47.PMICntPolDB.csv
```

DRAFT

S47.ResCaCntCancerRisk.csv
S47.ResCaCntCancerRiskSumByRec.csv
S47.ResCaCntGLCList.csv
S47.ResCaCntHRAInput.hra
S47.ResCaCntPathwayRec.csv
S47.ResCaCntPolDB.csv
S47.ResChCntGLCList.csv
S47.ResChCntHRAInput.hra
S47.ResChCntNCChronicRisk.csv
S47.ResChCntNCChronicRiskSumByRec.csv
S47.ResChCntPathwayRec.csv
S47.ResChCntPolDB.csv
S47.StuCaCntCancerRisk.csv
S47.StuCaCntCancerRiskSumByRec.csv
S47.StuCaCntGLCList.csv
S47.StuCaCntHRAInput.hra
S47.StuCaCntPathwayRec.csv
S47.StuCaCntPolDB.csv
S47.WkrCaCntCancerRisk.csv
S47.WkrCaCntCancerRiskSumByRec.csv
S47.WkrCaCntGLCList.csv
S47.WkrCaCntHRAInput.hra
S47.WkrCaCntPathwayRec.csv
S47.WkrCaCntPolDB.csv
S47.WkrChCntGLCList.csv
S47.WkrChCntHRAInput.hra
S47.WkrChCntNCChronicRisk.csv
S47.WkrChCntNCChronicRiskSumByRec.csv
S47.WkrChCntPathwayRec.csv
S47.WkrChCntPolDB.csv
S49.PMICntGLCList.csv
S49.PMICntHRAInput.hra
S49.PMICntNCAcuteRisk.csv
S49.PMICntNCAcuteRiskSumByRec.csv
S49.PMICntPathwayRec.csv
S49.PMICntPolDB.csv
S49.ResCaCntCancerRisk.csv
S49.ResCaCntCancerRiskSumByRec.csv
S49.ResCaCntGLCList.csv
S49.ResCaCntHRAInput.hra
S49.ResCaCntPathwayRec.csv
S49.ResCaCntPolDB.csv
S49.ResChCntGLCList.csv
S49.ResChCntHRAInput.hra
S49.ResChCntNCChronicRisk.csv
S49.ResChCntNCChronicRiskSumByRec.csv
S49.ResChCntPathwayRec.csv
S49.ResChCntPolDB.csv
S49.StuCaCntCancerRisk.csv
S49.StuCaCntCancerRiskSumByRec.csv
S49.StuCaCntGLCList.csv
S49.StuCaCntHRAInput.hra
S49.StuCaCntPathwayRec.csv
S49.StuCaCntPolDB.csv
S49.WkrCaCntCancerRisk.csv
S49.WkrCaCntCancerRiskSumByRec.csv
S49.WkrCaCntGLCList.csv

DRAFT

S49.WkrCaCntHRAInput.hra
S49.WkrCaCntPathwayRec.csv
S49.WkrCaCntPolDB.csv
S49.WkrChCntGLCList.csv
S49.WkrChCntHRAInput.hra
S49.WkrChCntNCChronicRisk.csv
S49.WkrChCntNCChronicRiskSumByRec.csv
S49.WkrChCntPathwayRec.csv
S49.WkrChCntPolDB.csv
S51.PMICntGLCList.csv
S51.PMICntHRAInput.hra
S51.PMICntNCAcuteRisk.csv
S51.PMICntNCAcuteRiskSumByRec.csv
S51.PMICntPathwayRec.csv
S51.PMICntPolDB.csv
S51.ResCaCntCancerRisk.csv
S51.ResCaCntCancerRiskSumByRec.csv
S51.ResCaCntGLCList.csv
S51.ResCaCntHRAInput.hra
S51.ResCaCntPathwayRec.csv
S51.ResCaCntPolDB.csv
S51.ResChCntGLCList.csv
S51.ResChCntHRAInput.hra
S51.ResChCntNCChronicRisk.csv
S51.ResChCntNCChronicRiskSumByRec.csv
S51.ResChCntPathwayRec.csv
S51.ResChCntPolDB.csv
S51.StuCaCntCancerRisk.csv
S51.StuCaCntCancerRiskSumByRec.csv
S51.StuCaCntGLCList.csv
S51.StuCaCntHRAInput.hra
S51.StuCaCntPathwayRec.csv
S51.StuCaCntPolDB.csv
S51.WkrCaCntCancerRisk.csv
S51.WkrCaCntCancerRiskSumByRec.csv
S51.WkrCaCntGLCList.csv
S51.WkrCaCntHRAInput.hra
S51.WkrCaCntPathwayRec.csv
S51.WkrCaCntPolDB.csv
S51.WkrChCntGLCList.csv
S51.WkrChCntHRAInput.hra
S51.WkrChCntNCChronicRisk.csv
S51.WkrChCntNCChronicRiskSumByRec.csv
S51.WkrChCntPathwayRec.csv
S51.WkrChCntPolDB.csv
S5354.PMICntGLCList.csv
S5354.PMICntHRAInput.hra
S5354.PMICntNCAcuteRisk.csv
S5354.PMICntNCAcuteRiskSumByRec.csv
S5354.PMICntPathwayRec.csv
S5354.PMICntPolDB.csv
S5354.ResCaCntCancerRisk.csv
S5354.ResCaCntCancerRiskSumByRec.csv
S5354.ResCaCntGLCList.csv
S5354.ResCaCntHRAInput.hra
S5354.ResCaCntPathwayRec.csv
S5354.ResCaCntPolDB.csv

DRAFT

S5354.ResChCntGLCList.csv
S5354.ResChCntHRAInput.hra
S5354.ResChCntNCChronicRisk.csv
S5354.ResChCntNCChronicRiskSumByRec.csv
S5354.ResChCntPathwayRec.csv
S5354.ResChCntPolDB.csv
S5354.StuCaCntCancerRisk.csv
S5354.StuCaCntCancerRiskSumByRec.csv
S5354.StuCaCntGLCList.csv
S5354.StuCaCntHRAInput.hra
S5354.StuCaCntPathwayRec.csv
S5354.StuCaCntPolDB.csv
S5354.WkrCaCntCancerRisk.csv
S5354.WkrCaCntCancerRiskSumByRec.csv
S5354.WkrCaCntGLCList.csv
S5354.WkrCaCntHRAInput.hra
S5354.WkrCaCntPathwayRec.csv
S5354.WkrCaCntPolDB.csv
S5354.WkrChCntGLCList.csv
S5354.WkrChCntHRAInput.hra
S5354.WkrChCntNCChronicRisk.csv
S5354.WkrChCntNCChronicRiskSumByRec.csv
S5354.WkrChCntPathwayRec.csv
S5354.WkrChCntPolDB.csv
S55.PMICntGLCList.csv
S55.PMICntHRAInput.hra
S55.PMICntNCAcuteRisk.csv
S55.PMICntNCAcuteRiskSumByRec.csv
S55.PMICntPathwayRec.csv
S55.PMICntPolDB.csv
S55.ResCaCntCancerRisk.csv
S55.ResCaCntCancerRiskSumByRec.csv
S55.ResCaCntGLCList.csv
S55.ResCaCntHRAInput.hra
S55.ResCaCntPathwayRec.csv
S55.ResCaCntPolDB.csv
S55.ResChCntGLCList.csv
S55.ResChCntHRAInput.hra
S55.ResChCntNCChronicRisk.csv
S55.ResChCntNCChronicRiskSumByRec.csv
S55.ResChCntPathwayRec.csv
S55.ResChCntPolDB.csv
S55.StuCaCntCancerRisk.csv
S55.StuCaCntCancerRiskSumByRec.csv
S55.StuCaCntGLCList.csv
S55.StuCaCntHRAInput.hra
S55.StuCaCntPathwayRec.csv
S55.StuCaCntPolDB.csv
S55.WkrCaCntCancerRisk.csv
S55.WkrCaCntCancerRiskSumByRec.csv
S55.WkrCaCntGLCList.csv
S55.WkrCaCntHRAInput.hra
S55.WkrCaCntPathwayRec.csv
S55.WkrCaCntPolDB.csv
S55.WkrChCntGLCList.csv
S55.WkrChCntHRAInput.hra
S55.WkrChCntNCChronicRisk.csv

DRAFT

S55.WkrChCntNCChronicRiskSumByRec.csv
S55.WkrChCntPathwayRec.csv
S55.WkrChCntPolDB.csv
S5657.PMICntGLCList.csv
S5657.PMICntHRAInput.hra
S5657.PMICntNCAcuteRisk.csv
S5657.PMICntNCAcuteRiskSumByRec.csv
S5657.PMICntPathwayRec.csv
S5657.PMICntPolDB.csv
S5657.ResCaCntCancerRisk.csv
S5657.ResCaCntCancerRiskSumByRec.csv
S5657.ResCaCntGLCList.csv
S5657.ResCaCntHRAInput.hra
S5657.ResCaCntPathwayRec.csv
S5657.ResCaCntPolDB.csv
S5657.ResChCntGLCList.csv
S5657.ResChCntHRAInput.hra
S5657.ResChCntNCChronicRisk.csv
S5657.ResChCntNCChronicRiskSumByRec.csv
S5657.ResChCntPathwayRec.csv
S5657.ResChCntPolDB.csv
S5657.StuCaCntCancerRisk.csv
S5657.StuCaCntCancerRiskSumByRec.csv
S5657.StuCaCntGLCList.csv
S5657.StuCaCntHRAInput.hra
S5657.StuCaCntPathwayRec.csv
S5657.StuCaCntPolDB.csv
S5657.WkrCaCntCancerRisk.csv
S5657.WkrCaCntCancerRiskSumByRec.csv
S5657.WkrCaCntGLCList.csv
S5657.WkrCaCntHRAInput.hra
S5657.WkrCaCntPathwayRec.csv
S5657.WkrCaCntPolDB.csv
S5657.WkrChCntGLCList.csv
S5657.WkrChCntHRAInput.hra
S5657.WkrChCntNCChronicRisk.csv
S5657.WkrChCntNCChronicRiskSumByRec.csv
S5657.WkrChCntPathwayRec.csv
S5657.WkrChCntPolDB.csv
S64.PMICntGLCList.csv
S64.PMICntHRAInput.hra
S64.PMICntNCAcuteRisk.csv
S64.PMICntNCAcuteRiskSumByRec.csv
S64.PMICntPathwayRec.csv
S64.PMICntPolDB.csv
S64.ResCaCntCancerRisk.csv
S64.ResCaCntCancerRiskSumByRec.csv
S64.ResCaCntGLCList.csv
S64.ResCaCntHRAInput.hra
S64.ResCaCntPathwayRec.csv
S64.ResCaCntPolDB.csv
S64.ResChCntGLCList.csv
S64.ResChCntHRAInput.hra
S64.ResChCntNCChronicRisk.csv
S64.ResChCntNCChronicRiskSumByRec.csv
S64.ResChCntPathwayRec.csv
S64.ResChCntPolDB.csv

DRAFT

S64.StuCaCntCancerRisk.csv
S64.StuCaCntCancerRiskSumByRec.csv
S64.StuCaCntGLCList.csv
S64.StuCaCntHRAInput.hra
S64.StuCaCntPathwayRec.csv
S64.StuCaCntPolDB.csv
S64.WkrCaCntCancerRisk.csv
S64.WkrCaCntCancerRiskSumByRec.csv
S64.WkrCaCntGLCList.csv
S64.WkrCaCntHRAInput.hra
S64.WkrCaCntPathwayRec.csv
S64.WkrCaCntPolDB.csv
S64.WkrChCntGLCList.csv
S64.WkrChCntHRAInput.hra
S64.WkrChCntNCChronicRisk.csv
S64.WkrChCntNCChronicRiskSumByRec.csv
S64.WkrChCntPathwayRec.csv
S64.WkrChCntPolDB.csv
S7.PMICntGLCList.csv
S7.PMICntHRAInput.hra
S7.PMICntNCAcuteRisk.csv
S7.PMICntNCAcuteRiskSumByRec.csv
S7.PMICntPathwayRec.csv
S7.PMICntPolDB.csv
S7.ResCaCntCancerRisk.csv
S7.ResCaCntCancerRiskSumByRec.csv
S7.ResCaCntGLCList.csv
S7.ResCaCntHRAInput.hra
S7.ResCaCntPathwayRec.csv
S7.ResCaCntPolDB.csv
S7.ResChCntGLCList.csv
S7.ResChCntHRAInput.hra
S7.ResChCntNCChronicRisk.csv
S7.ResChCntNCChronicRiskSumByRec.csv
S7.ResChCntPathwayRec.csv
S7.ResChCntPolDB.csv
S7.StuCaCntCancerRisk.csv
S7.StuCaCntCancerRiskSumByRec.csv
S7.StuCaCntGLCList.csv
S7.StuCaCntHRAInput.hra
S7.StuCaCntPathwayRec.csv
S7.StuCaCntPolDB.csv
S7.WkrCaCntCancerRisk.csv
S7.WkrCaCntCancerRiskSumByRec.csv
S7.WkrCaCntGLCList.csv
S7.WkrCaCntHRAInput.hra
S7.WkrCaCntPathwayRec.csv
S7.WkrCaCntPolDB.csv
S7.WkrChCntGLCList.csv
S7.WkrChCntHRAInput.hra
S7.WkrChCntNCChronicRisk.csv
S7.WkrChCntNCChronicRiskSumByRec.csv
S7.WkrChCntPathwayRec.csv
S7.WkrChCntPolDB.csv
S9.PMICntGLCList.csv
S9.PMICntHRAInput.hra
S9.PMICntNCAcuteRisk.csv

DRAFT

```
S9.PMICntNCAcuteRiskSumByRec.csv
S9.PMICntPathwayRec.csv
S9.PMICntPolDB.csv
S9.ResCaCntCancerRisk.csv
S9.ResCaCntCancerRiskSumByRec.csv
S9.ResCaCntGLCList.csv
S9.ResCaCntHRAInput.hra
S9.ResCaCntPathwayRec.csv
S9.ResCaCntPolDB.csv
S9.ResChCntGLCList.csv
S9.ResChCntHRAInput.hra
S9.ResChCntNCChronicRisk.csv
S9.ResChCntNCChronicRiskSumByRec.csv
S9.ResChCntPathwayRec.csv
S9.ResChCntPolDB.csv
S9.StuCaCntCancerRisk.csv
S9.StuCaCntCancerRiskSumByRec.csv
S9.StuCaCntGLCList.csv
S9.StuCaCntHRAInput.hra
S9.StuCaCntPathwayRec.csv
S9.StuCaCntPolDB.csv
S9.WkrCaCntCancerRisk.csv
S9.WkrCaCntCancerRiskSumByRec.csv
S9.WkrCaCntGLCList.csv
S9.WkrCaCntHRAInput.hra
S9.WkrCaCntPathwayRec.csv
S9.WkrCaCntPolDB.csv
S9.WkrChCntGLCList.csv
S9.WkrChCntHRAInput.hra
S9.WkrChCntNCChronicRisk.csv
S9.WkrChCntNCChronicRiskSumByRec.csv
S9.WkrChCntPathwayRec.csv
S9.WkrChCntPolDB.csv
StuCaCancerRisk.csv
StuCaCancerRiskSumByRec.csv
StuCaCntCancerRiskSumByRecBySrc.csv
StuCaCntOutput.txt
StuCaGLCList.csv
StuCaHRAInput.hra
StuCaOutput.txt
StuCaPathwayRec.csv
StuCaPolDB.csv
StuChGLCList.csv
StuChHRAInput.hra
StuChNCChronicRisk.csv
StuChNCChronicRiskSumByRec.csv
StuChOutput.txt
StuChPathwayRec.csv
StuChPolDB.csv
WkrCaCancerRisk.csv
WkrCaCancerRiskSumByRec.csv
WkrCaCntCancerRiskSumByRecBySrc.csv
WkrCaCntOutput.txt
WkrCaGLCList.csv
WkrCaHRAInput.hra
WkrCaOutput.txt
WkrCaPathwayRec.csv
```

DRAFT

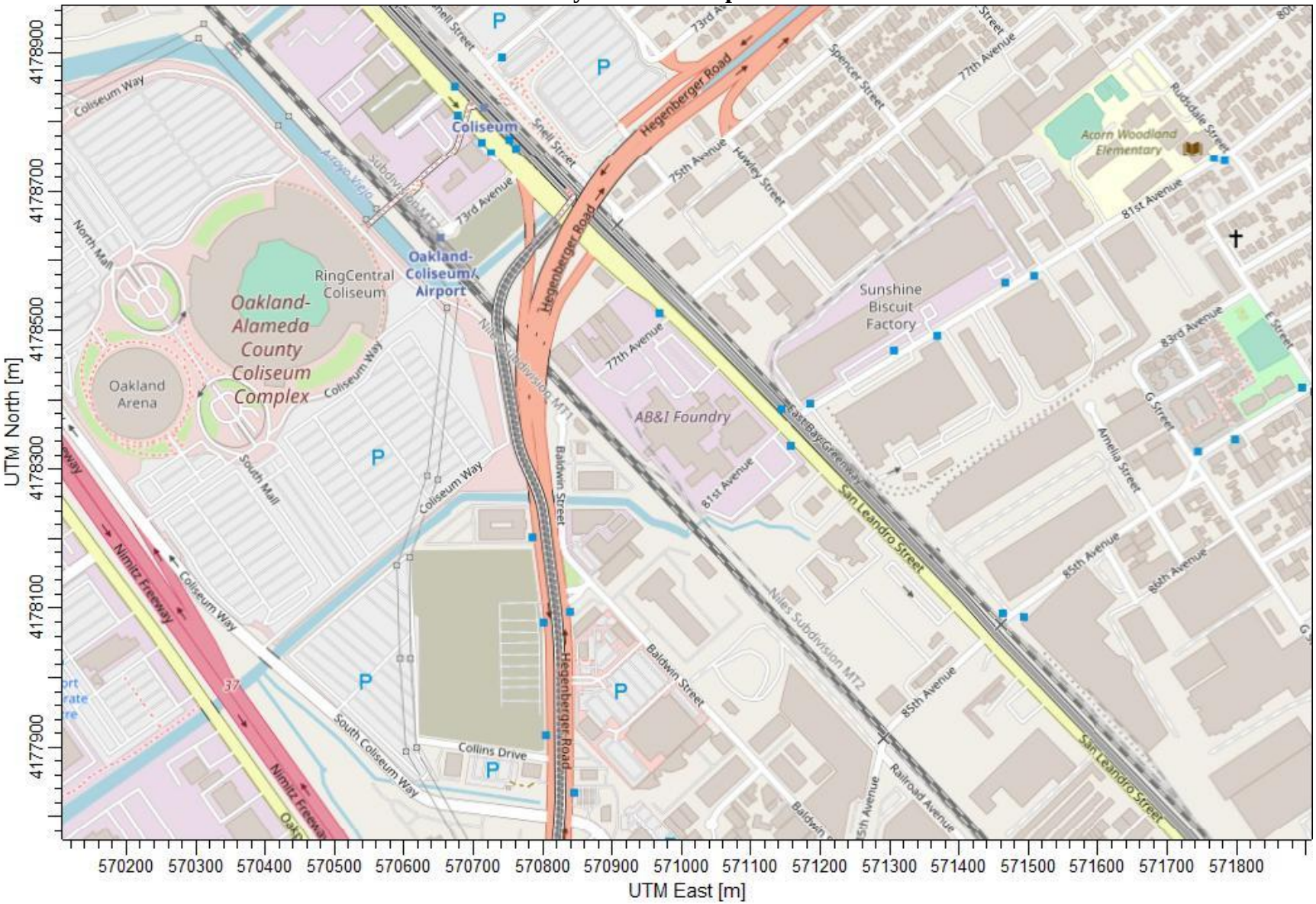
```
WkrCaPolDB.csv
WkrChCntNCChronicRiskSumByRecBySrc.csv
WkrChCntOutput.txt
WkrChGLCList.csv
WkrChHRAInput.hra
WkrChNCChronicRisk.csv
WkrChNCChronicRiskSumByRec.csv
WkrChOutput.txt
WkrChPathwayRec.csv
WkrChPolDB.csv
```

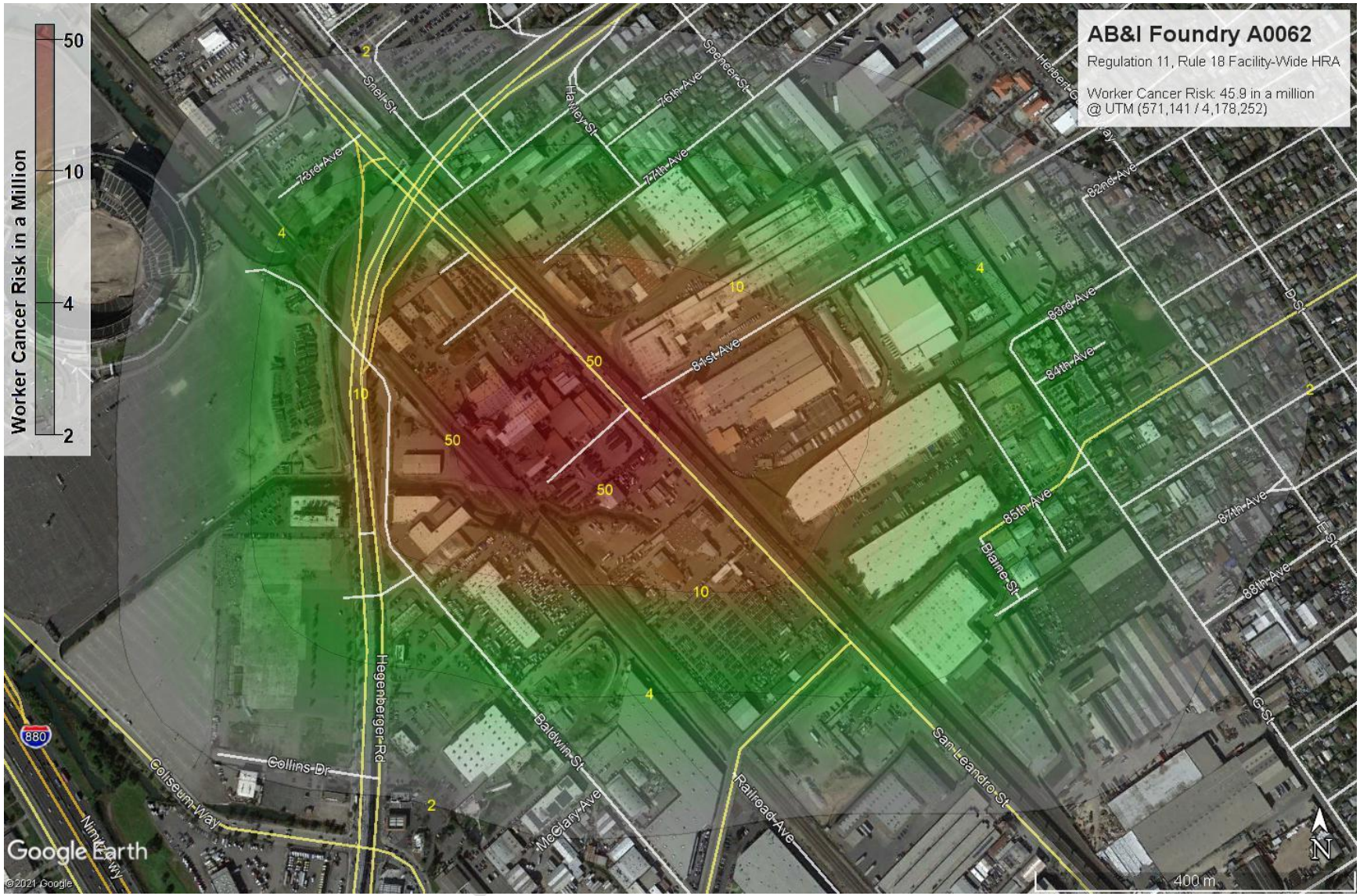
DRAFT

20. Appendix K – Facility Location Map and Risk Plots

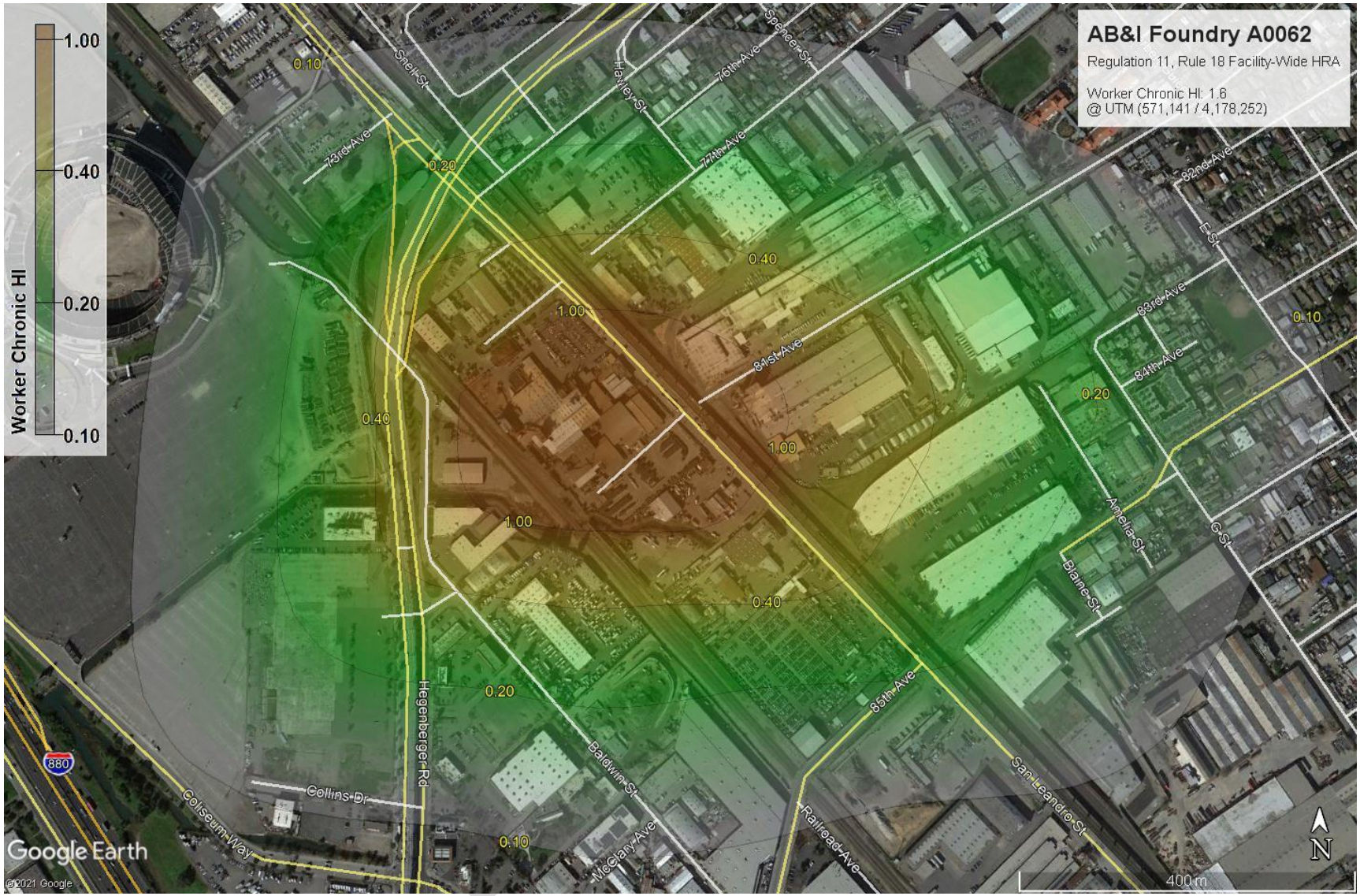
DRAFT

Facility Location Map

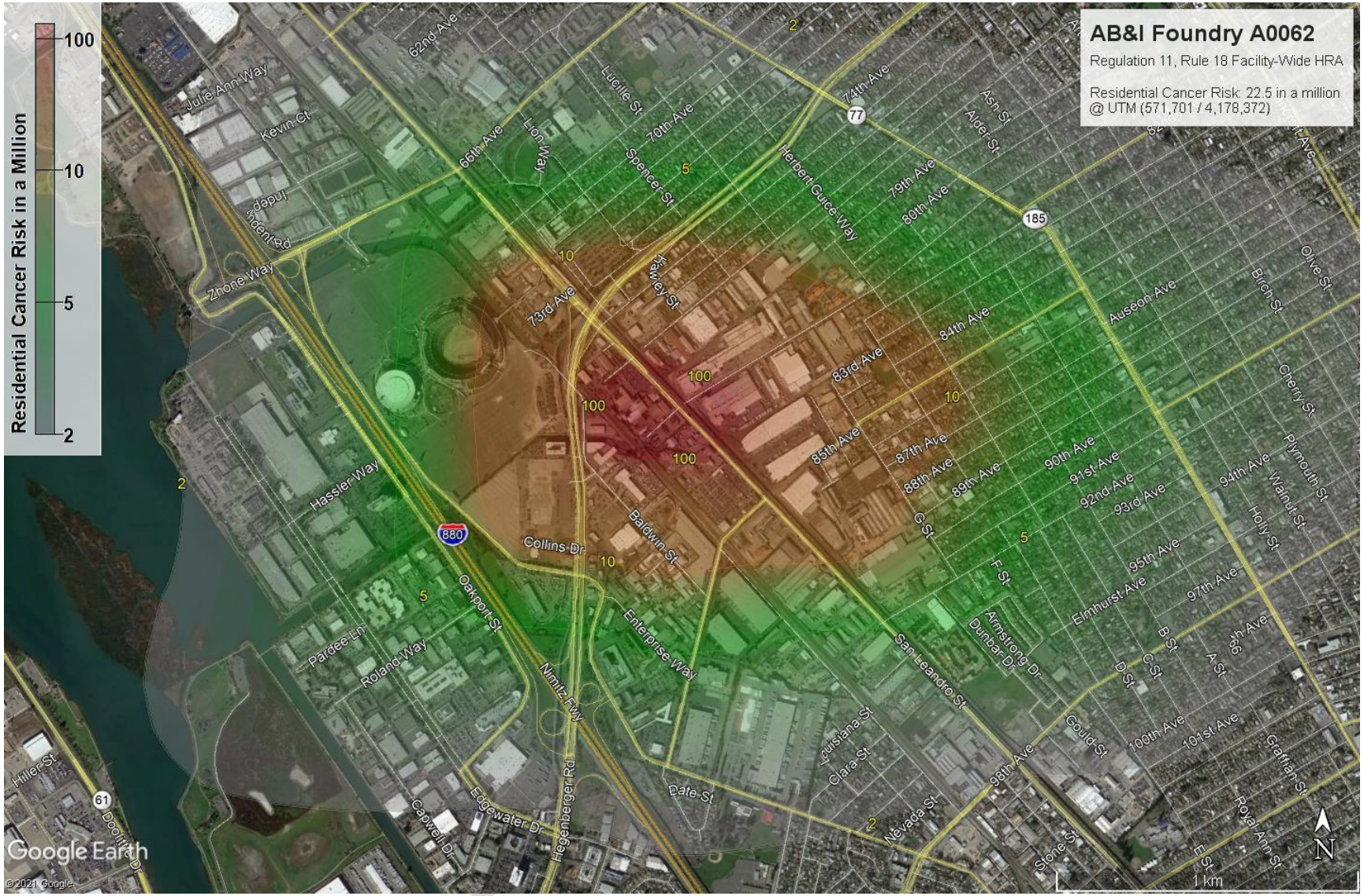




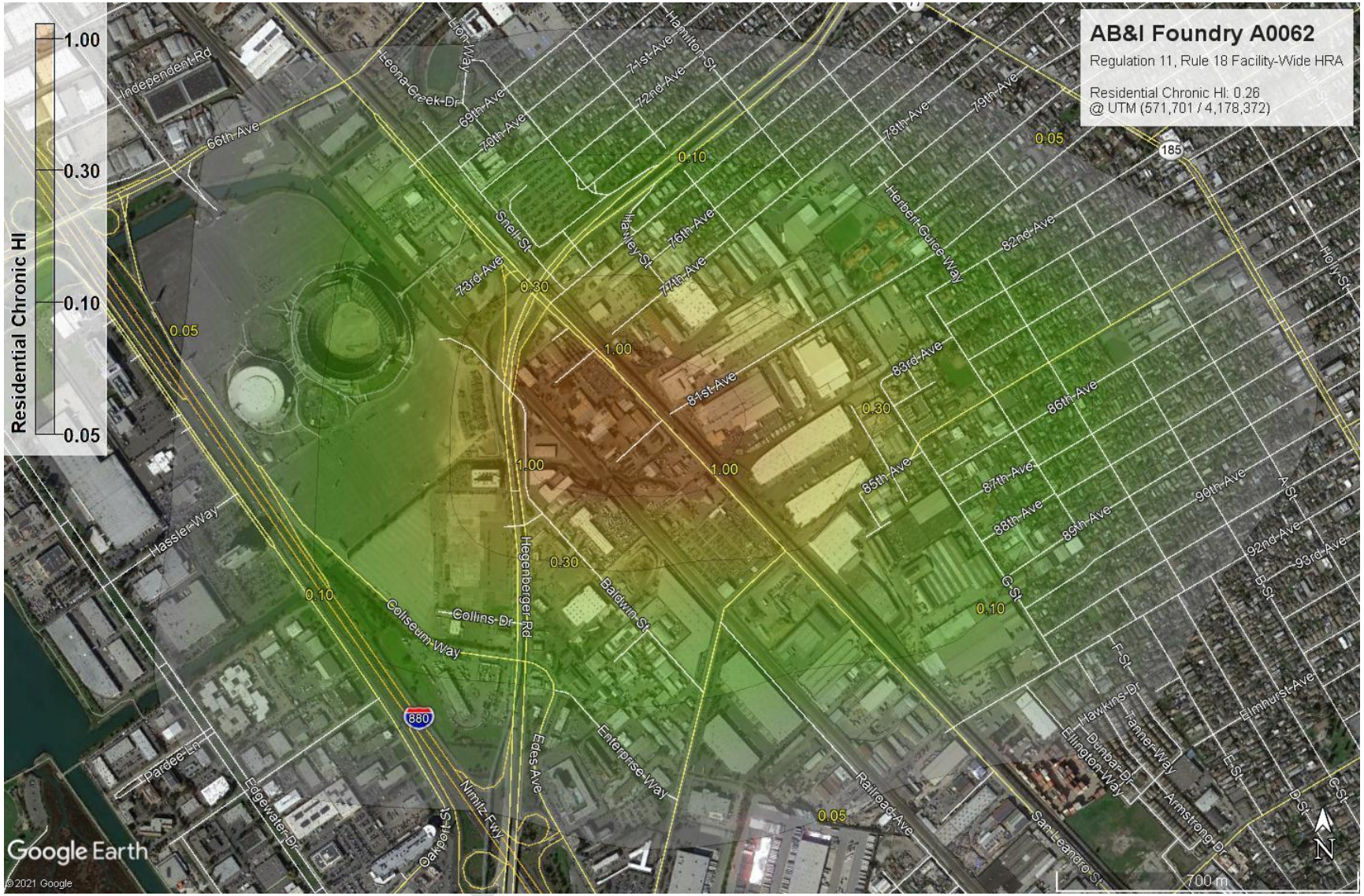
Worker Cancer Risk



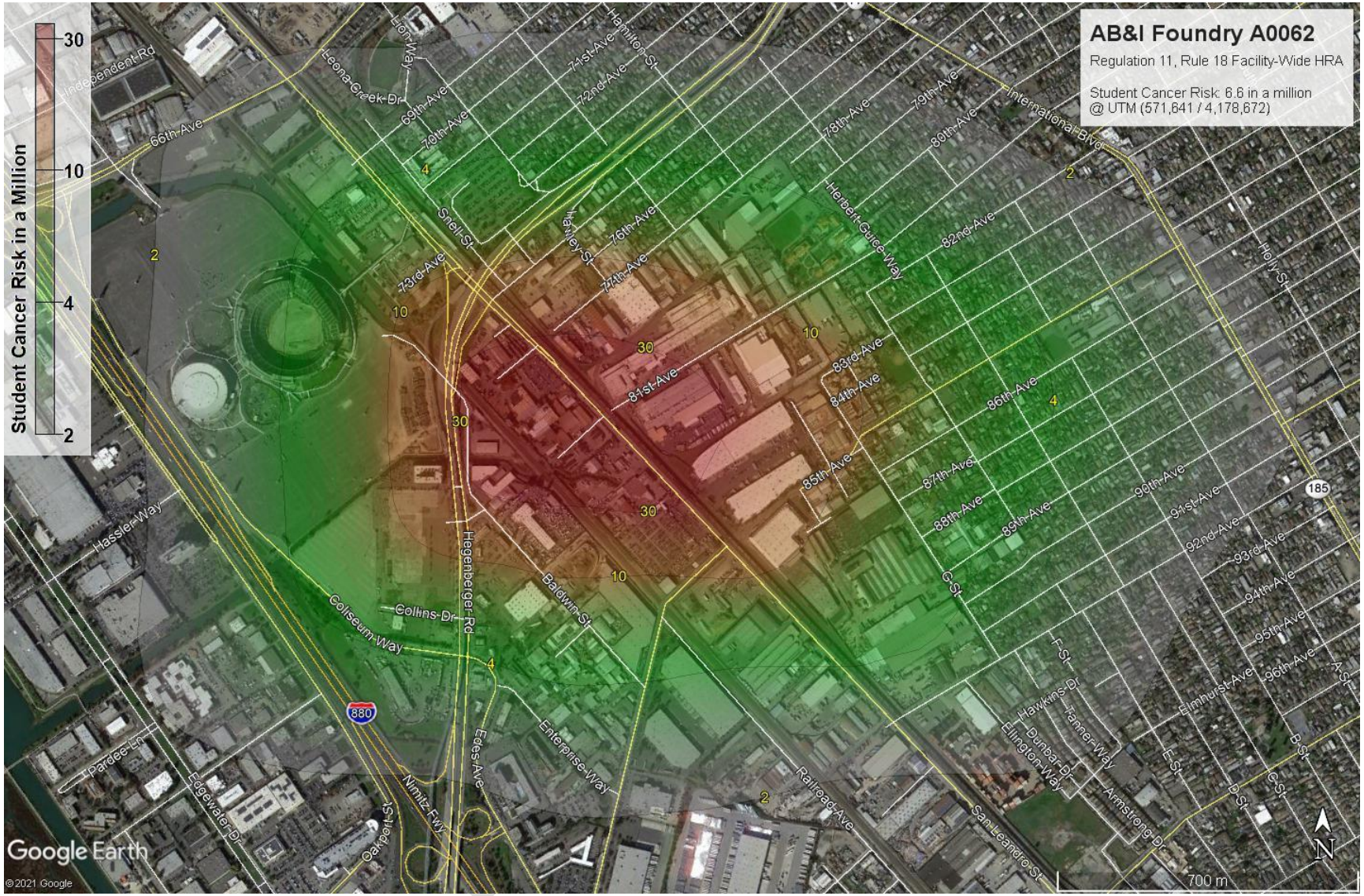
Worker Chronic HI



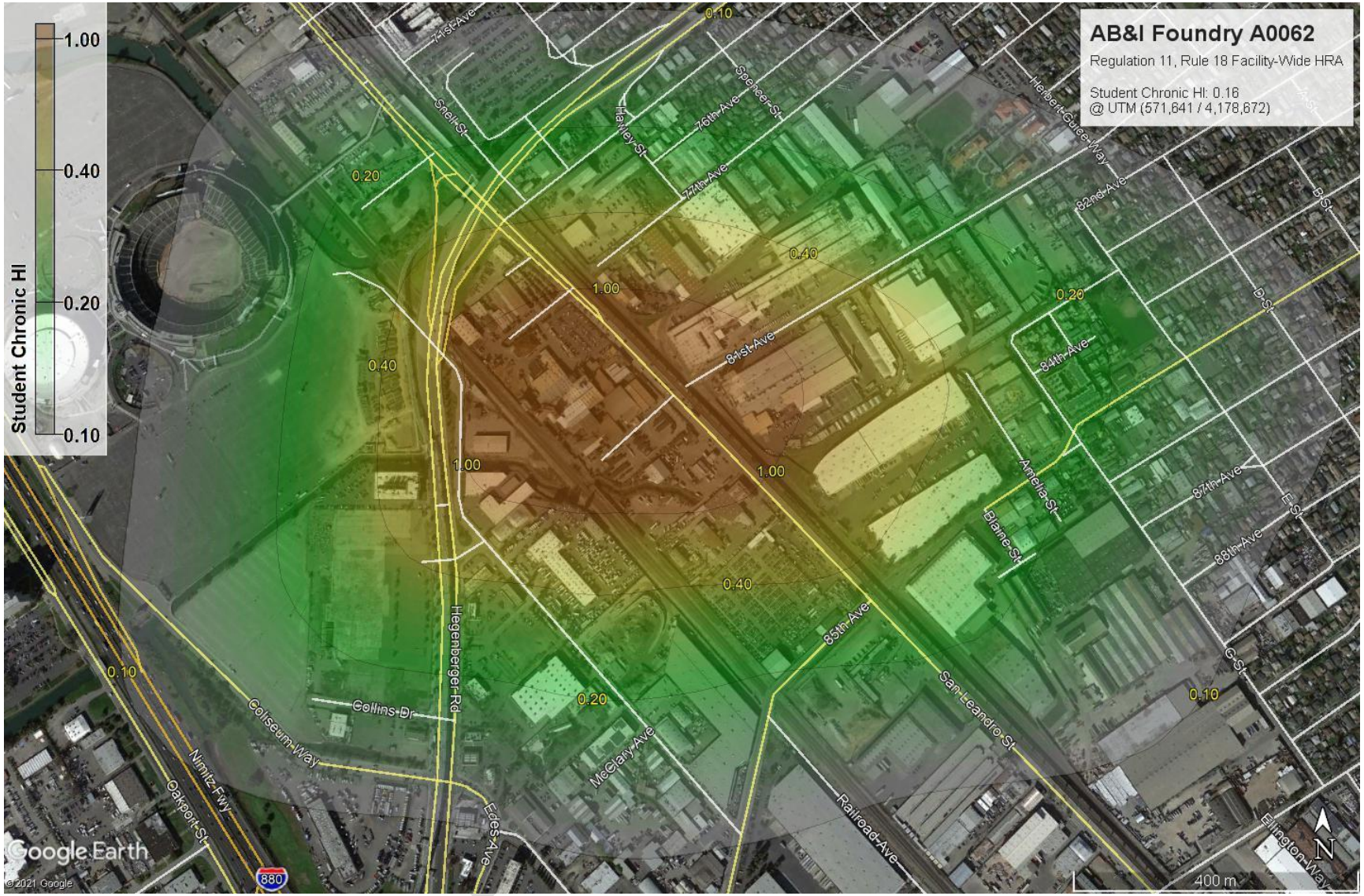
Residential Cancer Risk



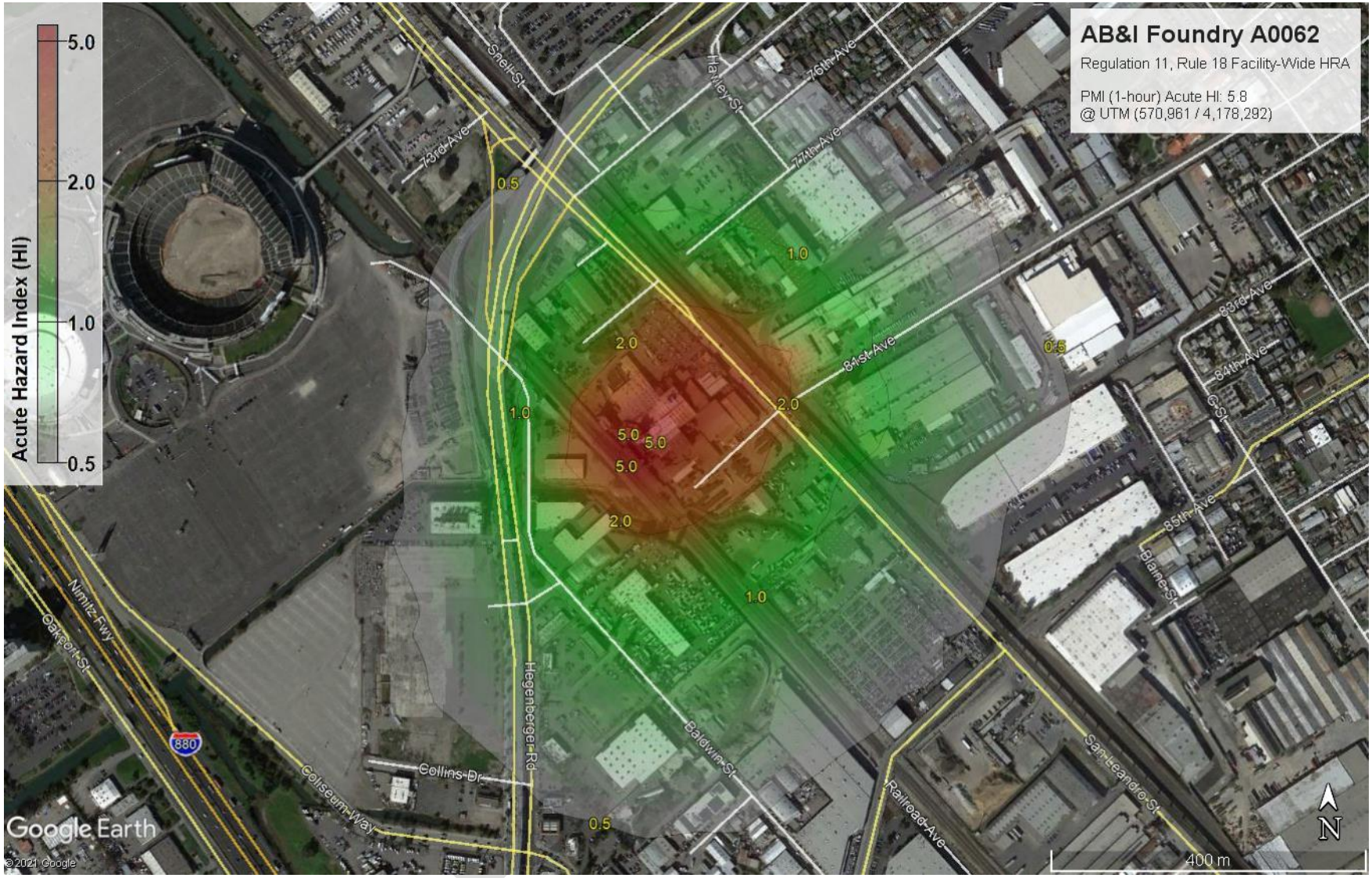
Residential Chronic HI



Student Cancer Risk



Student Chronic HI


AB&I Foundry A0062
Regulation 11, Rule 18 Facility-Wide HRA
PMI (1-hour) Acute HI: 5.8
@ UTM (570,961 / 4,178,292)
Acute Hazard Index (HI)
5.0
2.0
1.0
0.5
Snell St
Hanley St
76th Ave
74th Ave
73rd Ave
84th Ave
83rd Ave
84th Ave
85th Ave
G St
Blaine St
Nimitz Fwy
Oakport St
880
Coliseum Way
Collins Dr
Hegenberger Rd
Baldwin St
Railroad Ave
San Leandro St
Google Earth
© 2021 Google
400 m
N

Acute HI (PMI)

21. Appendix L – AERMOD: Emission Point Allocations

Source:	Emissions Train:		Emission Release Points (Modeled Name):	Emissions %	
S1: Cupola (Coke)	S1 --> A22 --> A19 --> P20		Cupola Baghouse (P20)	100%	
S1_F: Cupola Charge Door (Fugitive)	NA		Fugitive Volume Source (S1F)	100%	
S2: Pouring, Cooling, Shakeout	S2 --> A14 --> P14		Baghouse #2	27%	Not reflective of reported TACs
	S2 --> A21 --> P16		Baghouse #5	26%	Not reflective of reported TACs
	S2 --> A63 --> P63		Baghouse #4	26%	Not reflective of reported TACs
	S2 --> A68 --> P68		Baghouse #6, Future	22%	No reported TACs
S2_F: Pouring, Cooling, Shakeout	NA		(3) Fugitive Volume Sources (S2F_A, B, C)	100% (Total)	
S3: Sand Preparation/Cooler	S3 --> A15 --> P15		Baghouse #1 (P15)	100%	
S3_F: Sand Preparation/Cooler (Fugitive)	NA		Sand Handling (S3F)	100%	
S4: Wheelabrator Shot Blast #1	S4 --> A17 --> P3		Baghouse #3 (P3)	100%	P3 Also emission point for S5, S27, and S30. (S5, S27, and S30 do not emit TACs)
S4_F: Wheelabrator Shot Blast #1 (Fugitive)	NA		Shot Blast (S4F)	100%	
S7: Metal Induction Furnace (Pipe)	NA		Volume Source (S7)	100%	
S9: Metal Induction Furnace (Pipe)	NA		Volume Source (S9)	100%	
S10: Metal Induction Furnace (Other Parts)	NA		Volume Source (S10)	100%	
S25: Holding Furnace, Electric Channel	S25 --> A25 --> P25		Fume Baghouse (P25)	100%	
S25_F: Holding Furnace, Electric Channel	NA		Volume Source (S25F)	100%	
S31: Standby Generator Diesel Engine	S31 --> P19		Generator Stack (P19)	100%	
S32: Flow Jet Pipe Labler	NA		(3) Area Sources (S32_A, B, C)	3-way split	Source Group
S37: Hot Oil Heater	S37		Exempt	100%	
S46: Sand Storage Bunker	NA		Sand Storage Bunker (S46)	100%	
S47: Storage Piles	NA		(3) Area Sources (S47_A, B, C)	3-way split	Source Group
S49_F: Casting Grinding	NA		Grinding (S49F)	100%	
S51: Specialty Finishing Pain Dip Tanks	NA		(3) Area Sources (S51_A, B, C)	3-way split	Source Group
S53: Pipe Casting Machine P2	NA	Exempt	Combined Volume Source (S53_54)	50%	
S54: Pipe Casting Machine P3	NA	Exempt			
S55: Pipe Casting Machine P4	NA	Exempt	Volume Source (S55)	50%	
S56: Pipe Casting Machine P5	NA	Exempt	Combined Volume Source (S56_57)	50%	
S57: Pipe Casting Machine P6	NA				
S64_F: Metal Induction Furnace (Other Parts)	NA		Volume Source (S64F)	100%	
PCV: Roof Vents for Pipe Casting	NA	Exempt	(6) Point Sources (PC1, PC1, PC3, PC4, PC5, PC6)	6-way split of 50% of all Pipe Casting	

DRAFT

22. Appendix M – AERMOD: Source Parameters – Source Groups

Point Source Parameters

Source ID	Stack Release Type	Source Description	Easting (X)	Northing (Y)	Base Elevation	Stack Height	Temperature	Exit Velocity	Stack Diameter	OTHER
			(m)	(m)	(m)	(m)	(K)	(m/s)	(m)	(g/s)
P20	DEFAULT	Cupola Baghouse	570922.80	4178352.80	3.02	15.2400	388.7100	11.3700	1.6300	1.00
P14	DEFAULT	Baghouse #2	571009.50	4178398.90	3.50	15.2400	297.0400	11.1400	1.6300	1.00
P16	DEFAULT	Baghouse #5	570993.20	4178383.10	3.40	15.2400	312.0400	13.0100	1.4700	1.00
P63	DEFAULT	Baghouse #4	570995.20	4178387.50	3.42	15.2400	318.1500	11.0300	1.6000	1.00
P68	DEFAULT	Baghouse #6	571030.90	4178335.30	3.33	19.8100	318.1500	15.5200	1.2400	1.00
P15	DEFAULT	Baghouse #1	571014.70	4178400.30	3.53	15.2400	299.8200	11.2500	1.2400	1.00
P3	DEFAULT	Baghouse #3	571001.80	4178391.80	3.47	15.2400	295.9300	12.8000	1.2400	1.00
P25	DEFAULT	Fume Baghouse	570939.80	4178363.70	3.16	12.1900	304.8200	20.6200	1.2200	1.00
P19	DEFAULT	Generator Stack	571035.40	4178347.20	3.37	5.0300	820.9300	42.6300	0.3800	1.00
PC1	DEFAULT	Pipe Casting Vent 1	570987.72	4178321.3	3.02	13.4112	302.594444	14.014435	1.243584	0.166667
PC2	DEFAULT	Pipe Casting Vent 2	570992.42	4178325.7	3.06	13.4112	302.594444	14.014435	1.243584	0.166667
PC3	DEFAULT	Pipe Casting Vent 3	570997.72	4178330.1	3.13	13.4112	302.594444	14.014435	1.243584	0.166667
PC4	DEFAULT	Pipe Casting Vent 4	570997.13	4178310.93	3.01	13.4112	302.594444	14.014435	1.243584	0.166667
PC5	DEFAULT	Pipe Casting Vent 5	571002.43	4178315.33	3.05	13.4112	302.594444	14.014435	1.243584	0.166667
PC6	DEFAULT	Pipe Casting Vent 6	571007.73	4178319.73	3.13	13.4112	302.594444	14.014435	1.243584	0.166667

Area Source Parameters

Source ID	Flat / Default	Source Description	Easting (X)	Northing (Y)	Base Elevation	Release Height	Easterly Length	Northerly Length	Angle from North	Initial Vert. Dimension	OTHER
			(m)	(m)	(m)	(m)	(m)	(m)	(degrees)	(m)	(g/s)
S32A		Flow Jet Pipe Labeler (A)	571043.20	4178323.80	3.25	0.91	0.04	3.05	140.00	0	0.33
S32B		Flow Jet Pipe Labeler (B)	571046.00	4178314.40	3.21	0.91	0.04	3.05	140.00	0	0.33
S32C		Flow Jet Pipe Labeler (C)	571047.80	4178304.10	3.11	0.91	0.04	3.05	140.00	0	0.33
S46		Sand Storage Bunker	570828.20	4178466.20	3.20	1.22	38.10	10.97	48.00	0	1.00
S47A		Storage Piles (coke)	570927.50	4178403.00	3.26	3.05	21.34	13.72	50.00	0	0.33
S47B		Storage Piles (coke)	570971.50	4178299.90	2.83	2.44	45.72	3.66	50.00	0	0.33
S47C		Storage Piles (limestone)	570836.80	4178439.20	3.20	3.05	4.88	7.32	50.00	0	0.33
S51A		Specialty Finishing Paint Dip Tanks	570876.80	4178470.00	3.33	1.22	3.05	0.76	50.00	0	0.33
S51B		Specialty Finishing Paint Dip Tanks	570876.50	4178469.10	3.33	1.22	2.13	0.40	50.00	0	0.33
S51C		Specialty Finishing Paint Dip Tanks	570876.90	4178472.30	3.34	1.22	1.83	0.61	50.00	0	0.33

Volume Source Parameters

Source ID	Flat / Default	Source Description	Easting (X)	Northing (Y)	Base Elevation	Release Height	Initial Horiz. Dimension	Initial Vert. Dimension	OTHER
			(m)	(m)	(m)	(m)	(m)	(m)	(g/s)
S1F		Cupola Charge Door	570978.50	4178325.80	3.06	12.19	0.39	2.84	1.00
S2FA		Disa 270	571014.30	4178330.10	3.26	1.83	7.94	0.43	1.00
S2FB		Disa 2013	570988.60	4178349.80	3.23	1.83	3.26	0.43	1.00
S2FC		Shakeout	571008.70	4178347.70	3.31	2.13	8.86	0.50	1.00
S3F		Sand handling	571012.10	4178378.40	3.47	3.05	2.76	0.71	1.00
S4F		Shot Blast	571010.40	4178362.60	3.39	3.05	0.43	0.71	1.00
S7		Automatic Pouring Furnace (P-2)	570987.90	4178324.10	3.04	3.05	0.07	0.71	1.00
S9		Automatic Pouring Furnace (P5 and P6	570998.90	4178332.40	3.17	3.05	0.07	0.71	1.00
S10		Automatic Pouring Furnace (270A)	571019.70	4178320.30	3.19	3.05	0.28	0.71	1.00
S25F		Holding Furnace	570979.40	4178334.60	3.10	2.74	2.84	0.64	1.00
S49F		Grinding	571040.60	4178378.70	3.57	1.22	2.48	0.28	1.00
S53_54		Pipe Casting Machine P-2 and P-3	570991.20	4178321.20	3.04	1.37	0.85	0.32	1.00
S55		Pipe Casting Machine P-4	570995.90	4178325.60	3.08	1.68	0.43	0.39	1.00
S56_57		Pipe Casting Machine P-5 and P-6	571000.70	4178330.50	3.16	1.68	0.85	0.39	1.00
S64F		Tundish Pouring for DISA 2013	570978.60	4178341.00	3.13	3.05	0.28	0.71	1.00

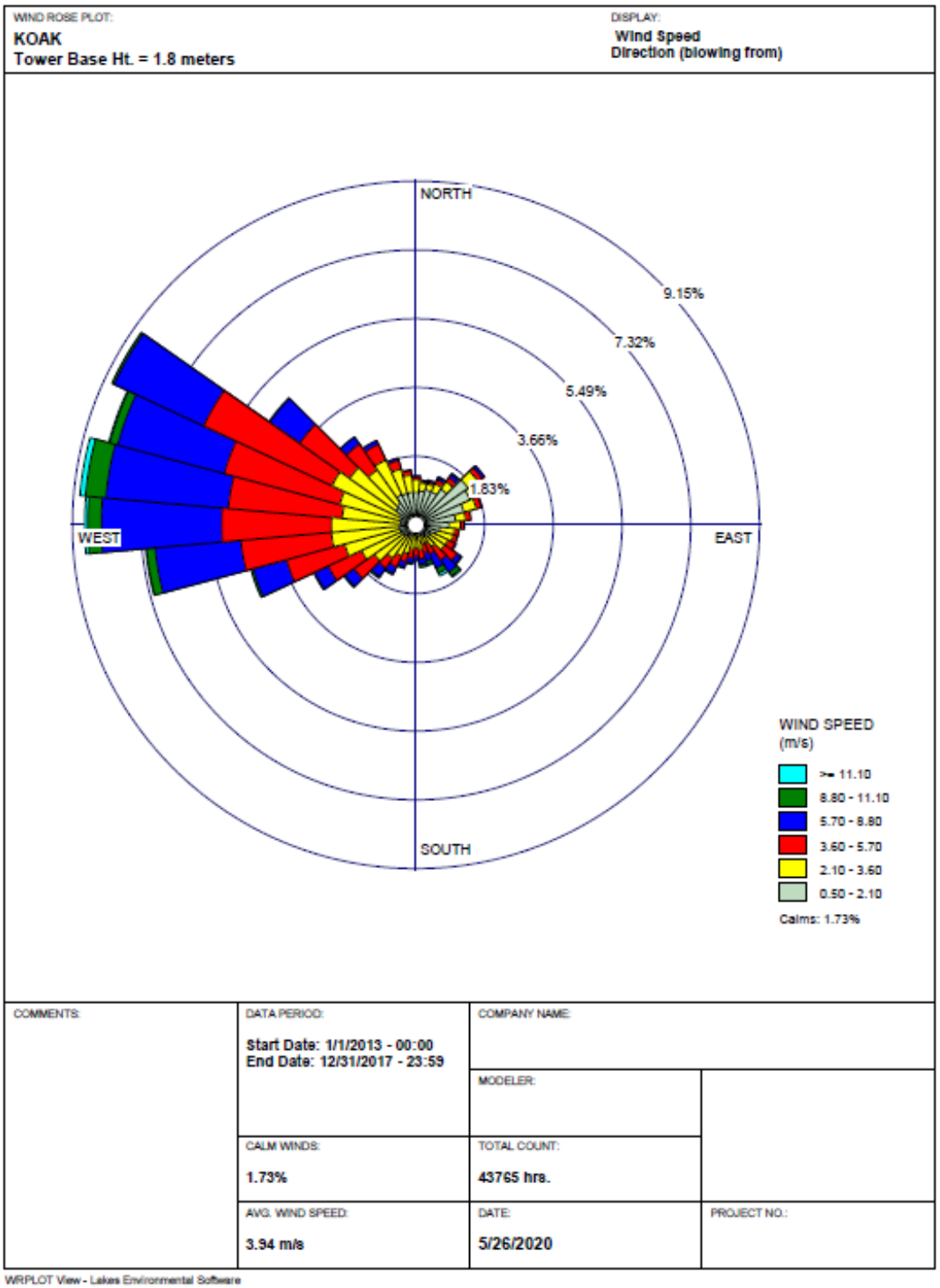
DRAFT

AERMOD: Source Groups

*** SOURCE IDs DEFINING SOURCE GROUPS ***					
SRCGROUP ID	SOURCE IDs				
---	---				
S1	P20				
F1	S1F				
B2S2	P14				
B5S2	P16				
B4S2	P63				
B6S2	P68				
AS2F	S2FA				
BS2F	S2FB				
CS2F	S2FC				
S3	P15				
F3	S3F				
S4	P3				
F4	S4F				
S7	S7				
S9	S9				
S10	S10				
S25	P25				
F25	S25F				
S31	P19				
S32	S32A	S32B	S32C		
S46	S46				
S47	S47A	S47B	S47C		
S49	S49F				
S5354	S53_54				
S55	S55				
S5657	S56_57				
S64	S64F				
S51	S51A	S51B	S51C		
PCV	PC1	PC2	PC3	PC4	PC5	PC6

DRAFT

23. Appendix N – AERMOD: Wind Rose Plot: KOAK



24. Appendix O – AERMOD: Auer Land Use Determination

Land Use Determination			
AB&I Foundry, P#62			
11-18 Facility-Wide HRA			
UTM Easting (meters):	571001		
UTM Northing (meters):	4178392		
UTM Zone: 10			
Datum: NAD83			
Study Radius for surface roughness (km):	3.0		
NLCD 2016:	Land	Cover Counts: Surface Roughness	
	0	Missing, Out-of-Bounds, or Unde	0
	11	Open Water:	2676
	12	Perennial Ice/Snow:	0
	21	Developed, Open Space:	832
	22	Developed, Low Intensity:	2332
	23	Developed, Medium Intensity:	15968
	24	Developed, High Intensity:	8777
	31	Barren Land (Rock/Sand/Clay):	76
	32	Unconsolidated Shore:	0
	41	Deciduous Forest:	0
	42	Evergreen Forest:	0
	43	Mixed Forest:	0
	51	Dwarf Scrub:	0
	52	Shrub/Scrub:	0
	71	Grasslands/Herbaceous:	75
	72	Sedge/Herbaceous:	0
	73	Lichens:	0
	74	Moss:	0
	81	Pasture/Hay:	0
	82	Cultivated Crops:	314
	90	Woody Wetlands:	0
	91	Palustrine Forested Wetland:	0
	92	Palustrine Scrub/Shrub Wetland	0
	93	Estuarine Forested Wetland:	0
	94	Estuarine Scrub/Shrub Wetland:	0
	95	Emergent Herbaceous Wetland:	378
	96	Palustrine Emergent Wetland (P	0
	97	Estuarine Emergent Wetland:	0
	98	Palustrine Aquatic Bed:	0
	99	Estuarine Aquatic Bed:	0
	---	---	
		Total:	31428
		Urban % =	78.74%

DRAFT

25. Appendix P – AERMOD: Model Run Summary

DRAFT

```
*** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                    ***        03/03/21
*** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                        ***        09:35:40
                                                                                                                        PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*
                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
**Model Is Setup For Calculation of Average CONCentration Values.

  --  DEPOSITION LOGIC  --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
**Model Uses NO WET DEPLETION.  WETDPLT  =  F
**Model Uses URBAN Dispersion Algorithm for the SBL for    40 Source(s),
  for Total of    1 Urban Area(s):
  Urban Population =   4729484.0 ;  Urban Roughness Length =  1.000 m

**Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions
**Model Accepts FLAGPOLE Receptor Heights.
**The User Specified a Pollutant Type of:  OTHER
**Model Calculates  1 Short Term Average(s) of:   1-HR
    and Calculates PERIOD Averages

**This Run Includes:     40 Source(s);      29 Source Group(s); and    3709 Receptor(s)
               with:     15 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     15 VOLUME source(s)
                and:     10 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)
**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  18081
**Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
```

DRAFT

```
                                                        b for Both Calm and Missing Hours
 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =     1.80 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3
 **Approximate Storage Requirements of Model =      6.1 MB of RAM.
 **Input Runstream File:          C:\Plant 62 AB&I\Plant 62 ABI Foundry\ABIF_CREV_5yrs_OTHER.DTA
 **Output Print File:             C:\Plant 62 AB&I\Plant 62 ABI Foundry\ABIF_CREV_5yrs_OTHER.LST
 **File for Summary of Results:   C:\Plant 62 AB&I\Plant 62 ABI Foundry\ABIF_CREV_5yrs_OTHER.SUM

 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                    ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                        ***        09:35:40
                                                                                                                        PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                          (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,
 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                    ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                        ***        09:35:40
                                                                                                                        PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                   *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:   C:\HRSA - New\AERMET-New\KOAK_2013_2017.SFC                                  Met Version:  18081
   Profile file:   C:\HRSA - New\AERMET-New\KOAK_2013_2017.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:    23230                 Upper air station no.:    23230
                  Name: UNKNOWN                                   Name: UNKNOWN
                  Year:   2013                                    Year:   2013

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 13 01 01   1 01   -7.9  0.116 -9.000 -9.000 -999.   95.     18.0  0.04   0.38   1.00    1.76  999.   10.0  278.8    2.0
```

```
 13 01 01   1 02  -10.3  0.133 -9.000 -9.000 -999.  116.     20.6  0.04   0.38   1.00    2.03   32.   10.0  278.1    2.0
 13 01 01   1 03  -22.6  0.220 -9.000 -9.000 -999.  248.     53.3  0.08   0.38   1.00    2.81  111.   10.0  278.8    2.0
 13 01 01   1 04  -12.8  0.148 -9.000 -9.000 -999.  139.     24.2  0.04   0.38   1.00    2.25   59.   10.0  278.8    2.0
 13 01 01   1 05  -18.7  0.183 -9.000 -9.000 -999.  189.     37.0  0.04   0.38   1.00    2.74   46.   10.0  280.4    2.0
 13 01 01   1 06  -24.9  0.244 -9.000 -9.000 -999.  289.     65.3  0.04   0.38   1.00    3.59   29.   10.0  279.2    2.0
 13 01 01   1 07  -20.6  0.200 -9.000 -9.000 -999.  216.     44.2  0.04   0.38   1.00    2.98   58.   10.0  278.8    2.0
 13 01 01   1 08  -13.6  0.158 -9.000 -9.000 -999.  151.     27.5  0.08   0.38   0.73    2.06  100.   10.0  278.8    2.0
 13 01 01   1 09    2.9  0.198  0.145  0.005   38.  212.   -243.5  0.04   0.38   0.36    2.70   38.   10.0  281.4    2.0
 13 01 01   1 10   30.3  0.318  0.419  0.005   88.  430.    -96.6  0.04   0.38   0.23    4.20   49.   10.0  282.5    2.0
 13 01 01   1 11   51.4  0.425  0.653  0.008  197.  665.   -136.2  0.04   0.38   0.18    5.69   55.   10.0  284.2    2.0
 13 01 01   1 12   63.4  0.409  0.872  0.007  381.  628.    -98.4  0.04   0.38   0.17    5.41   39.   10.0  284.9    2.0
 13 01 01   1 13   65.4  0.584  1.066  0.005  674. 1071.   -277.3  0.04   0.38   0.16    7.96   43.   10.0  284.9    2.0
 13 01 01   1 14   57.7  0.597  1.105  0.005  850. 1105.   -334.8  0.04   0.38   0.17    8.16   49.   10.0  285.9    2.0
 13 01 01   1 15   40.5  0.511  0.996  0.008  889.  886.   -300.4  0.04   0.38   0.20    6.98   51.   10.0  286.4    2.0
 13 01 01   1 16   15.0  0.468  0.718  0.008  894.  772.   -622.3  0.04   0.38   0.29    6.46   41.   10.0  285.4    2.0
 13 01 01   1 17  -31.4  0.404 -9.000 -9.000 -999.  620.    191.3  0.04   0.38   0.52    5.80   47.   10.0  283.8    2.0
 13 01 01   1 18  -29.2  0.289 -9.000 -9.000 -999.  381.     91.7  0.08   0.38   1.00    3.64   95.   10.0  282.5    2.0
 13 01 01   1 19  -33.0  0.324 -9.000 -9.000 -999.  443.    115.6  0.08   0.38   1.00    4.07   90.   10.0  280.4    2.0
 13 01 01   1 20  -29.0  0.283 -9.000 -9.000 -999.  363.     88.3  0.04   0.38   1.00    4.15   57.   10.0  279.2    2.0
 13 01 01   1 21  -17.9  0.182 -9.000 -9.000 -999.  191.     36.5  0.08   0.38   1.00    2.35   89.   10.0  279.2    2.0
 13 01 01   1 22  -14.1  0.161 -9.000 -9.000 -999.  156.     28.6  0.08   0.38   1.00    2.10  114.   10.0  279.9    2.0
 13 01 01   1 23  -10.1  0.136 -9.000 -9.000 -999.  120.     22.5  0.08   0.38   1.00    1.79   99.   10.0  279.9    2.0
 13 01 01   1 24   -8.8  0.123 -9.000 -9.000 -999.  104.     19.4  0.05   0.38   1.00    1.81  125.   10.0  278.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 13 01 01 01   10.0 1 -999.    1.76   278.8   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                  ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                      ***        09:35:40
                                                                                                                      PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                     *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                 ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S1        1ST HIGHEST VALUE IS       4.84778 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS       4.25917 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS       3.91474 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          4TH HIGHEST VALUE IS       3.80810 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          5TH HIGHEST VALUE IS       3.69810 AT (  571141.00,  4178272.00,     3.22,     3.22,    1.50)  DC
          6TH HIGHEST VALUE IS       3.57711 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS       3.56791 AT (  571161.00,  4178292.00,     3.62,     3.62,    1.50)  DC
          8TH HIGHEST VALUE IS       3.55815 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          9TH HIGHEST VALUE IS       3.52553 AT (  571121.00,  4178252.00,     2.76,     2.76,    1.50)  DC
```

DRAFT

```
         10TH HIGHEST VALUE IS       3.44554 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC

F1        1ST HIGHEST VALUE IS      23.63234 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      23.51022 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          3RD HIGHEST VALUE IS      21.13627 AT (  570921.00,  4178292.00,     2.60,     2.60,    1.50)  DC
          4TH HIGHEST VALUE IS      20.97885 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          5TH HIGHEST VALUE IS      20.94496 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          6TH HIGHEST VALUE IS      20.71649 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS      20.65840 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      20.48087 AT (  570921.00,  4178272.00,     2.51,     2.51,    1.50)  DC
          9TH HIGHEST VALUE IS      20.12358 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
         10TH HIGHEST VALUE IS      20.07390 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC

B2S2      1ST HIGHEST VALUE IS      28.64287 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      28.31706 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      26.86693 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          4TH HIGHEST VALUE IS      25.53929 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC
          5TH HIGHEST VALUE IS      24.14871 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          6TH HIGHEST VALUE IS      20.02039 AT (  571121.00,  4178412.00,     3.91,     3.91,    1.50)  DC
          7TH HIGHEST VALUE IS      18.56789 AT (  571081.00,  4178432.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      17.50865 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
          9TH HIGHEST VALUE IS      17.08553 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS      16.09552 AT (  571141.00,  4178412.00,     3.91,     3.91,    1.50)  DC

B5S2      1ST HIGHEST VALUE IS      16.38912 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      16.27825 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      14.45371 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          4TH HIGHEST VALUE IS      14.41455 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          5TH HIGHEST VALUE IS      14.00373 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          6TH HIGHEST VALUE IS      13.26439 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          7TH HIGHEST VALUE IS      12.84027 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
          8TH HIGHEST VALUE IS      12.62703 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC
          9TH HIGHEST VALUE IS      12.54039 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS      12.33900 AT (  571161.00,  4178372.00,     3.90,     3.90,    1.50)  DC


 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                  ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                      ***        09:35:40
                                                                                                                      PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                     *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                    NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

B4S2      1ST HIGHEST VALUE IS      16.28232 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      15.47342 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      14.35605 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
```

```
          4TH HIGHEST VALUE IS      14.03429 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          5TH HIGHEST VALUE IS      13.50316 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          6TH HIGHEST VALUE IS      13.19863 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS      13.02190 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      12.40744 AT (  571061.00,  4178432.00,     3.87,     3.87,    1.50)  DC
          9TH HIGHEST VALUE IS      12.26801 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
         10TH HIGHEST VALUE IS      11.82994 AT (  571121.00,  4178412.00,     3.91,     3.91,    1.50)  DC

B6S2      1ST HIGHEST VALUE IS       7.19097 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          2ND HIGHEST VALUE IS       7.10909 AT (  571181.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          3RD HIGHEST VALUE IS       7.03743 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
          4TH HIGHEST VALUE IS       6.97942 AT (  571181.00,  4178352.00,     3.88,     3.88,    1.50)  DC
          5TH HIGHEST VALUE IS       6.97211 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          6TH HIGHEST VALUE IS       6.94301 AT (  571181.00,  4178312.00,     3.88,     3.88,    1.50)  DC
          7TH HIGHEST VALUE IS       6.92502 AT (  571201.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS       6.82194 AT (  571201.00,  4178352.00,     3.84,     3.84,    1.50)  DC
          9TH HIGHEST VALUE IS       6.76764 AT (  571201.00,  4178312.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS       6.74733 AT (  571161.00,  4178292.00,     3.62,     3.62,    1.50)  DC

AS2F      1ST HIGHEST VALUE IS      67.09776 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      66.73948 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          3RD HIGHEST VALUE IS      65.88837 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          4TH HIGHEST VALUE IS      61.93844 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          5TH HIGHEST VALUE IS      56.46010 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          6TH HIGHEST VALUE IS      53.18694 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS      51.92602 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      50.44337 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
          9TH HIGHEST VALUE IS      48.09091 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      47.15623 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC

BS2F      1ST HIGHEST VALUE IS      77.15782 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          2ND HIGHEST VALUE IS      65.35055 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          3RD HIGHEST VALUE IS      62.15930 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          4TH HIGHEST VALUE IS      61.09463 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          5TH HIGHEST VALUE IS      53.56603 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
          6TH HIGHEST VALUE IS      52.74226 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          7TH HIGHEST VALUE IS      52.58156 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          8TH HIGHEST VALUE IS      49.67842 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          9TH HIGHEST VALUE IS      48.42543 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
         10TH HIGHEST VALUE IS      47.93079 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC


 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                  ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                      ***        09:35:40
                                                                                                                      PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                      NETWORK
```

```
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - -
```

```
                    *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***

                    ** CONC OF OTHER    IN MICROGRAMS/M**3                    **

                                                                                                NETWORK
GROUP ID                    AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

F4        1ST HIGHEST VALUE IS      99.49593 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      87.55195 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      81.86241 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          4TH HIGHEST VALUE IS      74.48553 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          5TH HIGHEST VALUE IS      66.68628 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC
          6TH HIGHEST VALUE IS      63.85142 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS      60.39041 AT (  571061.00,  4178432.00,     3.87,     3.87,    1.50)  DC
          8TH HIGHEST VALUE IS      60.06706 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          9TH HIGHEST VALUE IS      57.11311 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
         10TH HIGHEST VALUE IS      54.49906 AT (  571121.00,  4178412.00,     3.91,     3.91,    1.50)  DC

S7        1ST HIGHEST VALUE IS     132.83395 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          2ND HIGHEST VALUE IS      95.18611 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          3RD HIGHEST VALUE IS      82.05134 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          4TH HIGHEST VALUE IS      78.63019 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          5TH HIGHEST VALUE IS      72.13320 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          6TH HIGHEST VALUE IS      55.88976 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
          7TH HIGHEST VALUE IS      53.21428 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
          8TH HIGHEST VALUE IS      52.39509 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC
          9TH HIGHEST VALUE IS      48.69590 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      47.78769 AT (  570921.00,  4178292.00,     2.60,     2.60,    1.50)  DC

S9        1ST HIGHEST VALUE IS      83.97543 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          2ND HIGHEST VALUE IS      64.76032 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          3RD HIGHEST VALUE IS      60.57969 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          4TH HIGHEST VALUE IS      55.91106 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          5TH HIGHEST VALUE IS      54.31546 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          6TH HIGHEST VALUE IS      52.61164 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          7TH HIGHEST VALUE IS      52.46697 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          8TH HIGHEST VALUE IS      49.05682 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          9TH HIGHEST VALUE IS      44.79942 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS      41.41625 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC

S10       1ST HIGHEST VALUE IS      69.01800 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          2ND HIGHEST VALUE IS      62.52938 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          3RD HIGHEST VALUE IS      60.12319 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          4TH HIGHEST VALUE IS      57.08584 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          5TH HIGHEST VALUE IS      54.54759 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          6TH HIGHEST VALUE IS      48.99179 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
          7TH HIGHEST VALUE IS      48.90508 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      48.70903 AT (  571141.00,  4178272.00,     3.22,     3.22,    1.50)  DC
          9TH HIGHEST VALUE IS      48.36574 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      47.10124 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
```

DRAFT

```
 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                    ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                        ***        09:35:40
                                                                                                                        PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                     ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                          NETWORK
GROUP ID                        AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S25       1ST HIGHEST VALUE IS      11.64385 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS      11.56087 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      10.59356 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          4TH HIGHEST VALUE IS      10.56725 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          5TH HIGHEST VALUE IS      10.30567 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          6TH HIGHEST VALUE IS      10.22561 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS       9.37842 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS       9.27729 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
          9TH HIGHEST VALUE IS       9.17287 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS       9.16857 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC

F25       1ST HIGHEST VALUE IS     150.31912 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          2ND HIGHEST VALUE IS     135.12945 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          3RD HIGHEST VALUE IS     101.27151 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          4TH HIGHEST VALUE IS      85.77203 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
          5TH HIGHEST VALUE IS      81.49029 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC
          6TH HIGHEST VALUE IS      79.92281 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          7TH HIGHEST VALUE IS      73.10975 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          8TH HIGHEST VALUE IS      68.09001 AT (  570921.00,  4178292.00,     2.60,     2.60,    1.50)  DC
          9TH HIGHEST VALUE IS      63.67561 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
         10TH HIGHEST VALUE IS      51.20160 AT (  570901.00,  4178332.00,     2.79,     2.79,    1.50)  DC

S31       1ST HIGHEST VALUE IS      12.54648 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          2ND HIGHEST VALUE IS      11.87456 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          3RD HIGHEST VALUE IS      11.80944 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          4TH HIGHEST VALUE IS      11.12361 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          5TH HIGHEST VALUE IS      11.09150 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          6TH HIGHEST VALUE IS      10.13895 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC
          7TH HIGHEST VALUE IS       9.72679 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
          8TH HIGHEST VALUE IS       8.59653 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
          9TH HIGHEST VALUE IS       8.52549 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
         10TH HIGHEST VALUE IS       8.34523 AT (  570921.00,  4178292.00,     2.60,     2.60,    1.50)  DC

S32       1ST HIGHEST VALUE IS      84.19499 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          2ND HIGHEST VALUE IS      82.73978 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          3RD HIGHEST VALUE IS      80.45690 AT (  571141.00,  4178272.00,     3.22,     3.22,    1.50)  DC
          4TH HIGHEST VALUE IS      75.53527 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          5TH HIGHEST VALUE IS      74.87590 AT (  571161.00,  4178292.00,     3.62,     3.62,    1.50)  DC
          6TH HIGHEST VALUE IS      69.28884 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
```

DRAFT

```
          7TH HIGHEST VALUE IS      67.10960 AT (  571121.00,  4178252.00,     2.76,     2.76,    1.50)  DC
          8TH HIGHEST VALUE IS      64.24172 AT (  571181.00,  4178312.00,     3.88,     3.88,    1.50)  DC
          9TH HIGHEST VALUE IS      64.20721 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS      63.89376 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC

 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                  ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                      ***        09:35:40
                                                                                                                      PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                                                                          NETWORK
GROUP ID                       AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S46       1ST HIGHEST VALUE IS     610.89838 AT (  570821.00,  4178452.00,     3.11,     3.11,    1.50)  DC
          2ND HIGHEST VALUE IS     353.49564 AT (  570821.00,  4178432.00,     3.19,     3.19,    1.50)  DC
          3RD HIGHEST VALUE IS     216.95096 AT (  570801.00,  4178452.00,     3.12,     3.12,    1.50)  DC
          4TH HIGHEST VALUE IS     199.85030 AT (  570801.00,  4178432.00,     3.11,     3.11,    1.50)  DC
          5TH HIGHEST VALUE IS     184.73928 AT (  570841.00,  4178412.00,     3.16,     3.16,    1.50)  DC
          6TH HIGHEST VALUE IS     183.68442 AT (  570821.00,  4178492.00,     3.21,     3.21,    1.50)  DC
          7TH HIGHEST VALUE IS     174.28329 AT (  570821.00,  4178412.00,     3.12,     3.12,    1.50)  DC
          8TH HIGHEST VALUE IS     172.53325 AT (  570801.00,  4178472.00,     3.09,     3.09,    1.50)  DC
          9TH HIGHEST VALUE IS     139.41175 AT (  570801.00,  4178412.00,     3.05,     3.05,    1.50)  DC
         10TH HIGHEST VALUE IS     121.41042 AT (  570801.00,  4178492.00,     3.10,     3.10,    1.50)  DC

S47       1ST HIGHEST VALUE IS     270.82709 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          2ND HIGHEST VALUE IS     201.17127 AT (  570821.00,  4178432.00,     3.19,     3.19,    1.50)  DC
          3RD HIGHEST VALUE IS     164.99907 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          4TH HIGHEST VALUE IS     134.54971 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          5TH HIGHEST VALUE IS     130.04357 AT (  570821.00,  4178452.00,     3.11,     3.11,    1.50)  DC
          6TH HIGHEST VALUE IS     115.62938 AT (  570821.00,  4178412.00,     3.12,     3.12,    1.50)  DC
          7TH HIGHEST VALUE IS     114.09685 AT (  570981.00,  4178252.00,     2.61,     2.61,    1.50)  DC
          8TH HIGHEST VALUE IS     113.21910 AT (  570841.00,  4178412.00,     3.16,     3.16,    1.50)  DC
          9TH HIGHEST VALUE IS     110.99720 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      85.15294 AT (  570961.00,  4178252.00,     2.53,     2.53,    1.50)  DC

S49       1ST HIGHEST VALUE IS     272.14181 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          2ND HIGHEST VALUE IS     214.02092 AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
          3RD HIGHEST VALUE IS     166.45558 AT (  571121.00,  4178392.00,     3.91,     3.91,    1.50)  DC
          4TH HIGHEST VALUE IS     162.25647 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          5TH HIGHEST VALUE IS     156.22724 AT (  571101.00,  4178412.00,     3.90,     3.90,    1.50)  DC
          6TH HIGHEST VALUE IS     121.57017 AT (  571061.00,  4178432.00,     3.87,     3.87,    1.50)  DC
          7TH HIGHEST VALUE IS     114.92158 AT (  571121.00,  4178412.00,     3.91,     3.91,    1.50)  DC
          8TH HIGHEST VALUE IS     110.80536 AT (  571141.00,  4178392.00,     3.92,     3.92,    1.50)  DC
          9TH HIGHEST VALUE IS     107.56953 AT (  571081.00,  4178432.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS     106.77519 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC

S5354     1ST HIGHEST VALUE IS     155.62892 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
```

```
          2ND HIGHEST VALUE IS      98.94404 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          3RD HIGHEST VALUE IS      95.79743 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          4TH HIGHEST VALUE IS      83.27044 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          5TH HIGHEST VALUE IS      83.26366 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          6TH HIGHEST VALUE IS      61.11953 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
          7TH HIGHEST VALUE IS      56.83185 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
          8TH HIGHEST VALUE IS      53.11083 AT (  570981.00,  4178252.00,     2.61,     2.61,    1.50)  DC
          9TH HIGHEST VALUE IS      52.36127 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
         10TH HIGHEST VALUE IS      51.56765 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC


 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                  ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                      ***        09:35:40
                                                                                                                      PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                     *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S55       1ST HIGHEST VALUE IS     118.09681 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          2ND HIGHEST VALUE IS      81.49993 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          3RD HIGHEST VALUE IS      79.27066 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          4TH HIGHEST VALUE IS      68.68188 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          5TH HIGHEST VALUE IS      68.41582 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          6TH HIGHEST VALUE IS      51.32052 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC
          7TH HIGHEST VALUE IS      50.59877 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          8TH HIGHEST VALUE IS      50.43626 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          9TH HIGHEST VALUE IS      49.69981 AT (  571001.00,  4178252.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      46.07104 AT (  570981.00,  4178252.00,     2.61,     2.61,    1.50)  DC

S5657     1ST HIGHEST VALUE IS      93.15755 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          2ND HIGHEST VALUE IS      67.85509 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
          3RD HIGHEST VALUE IS      66.94076 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          4TH HIGHEST VALUE IS      57.56430 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          5TH HIGHEST VALUE IS      57.49164 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          6TH HIGHEST VALUE IS      57.43342 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
          7TH HIGHEST VALUE IS      55.40845 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          8TH HIGHEST VALUE IS      49.73014 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
          9TH HIGHEST VALUE IS      46.12205 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
         10TH HIGHEST VALUE IS      43.90969 AT (  570941.00,  4178272.00,     2.53,     2.53,    1.50)  DC

S64       1ST HIGHEST VALUE IS     107.27945 AT (  570941.00,  4178312.00,     2.81,     2.81,    1.50)  DC
          2ND HIGHEST VALUE IS      85.59035 AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
          3RD HIGHEST VALUE IS      68.95560 AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
          4TH HIGHEST VALUE IS      68.31879 AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
          5TH HIGHEST VALUE IS      61.41529 AT (  570921.00,  4178312.00,     2.73,     2.73,    1.50)  DC
          6TH HIGHEST VALUE IS      51.92302 AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
```

DRAFT

```
          7TH HIGHEST VALUE IS      48.87499 AT (  570921.00,  4178292.00,     2.60,     2.60,    1.50)  DC
          8TH HIGHEST VALUE IS      48.53618 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          9TH HIGHEST VALUE IS      48.29704 AT (  570961.00,  4178272.00,     2.64,     2.64,    1.50)  DC
         10TH HIGHEST VALUE IS      47.07562 AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC

S51       1ST HIGHEST VALUE IS     165.03379 AT (  570821.00,  4178452.00,     3.11,     3.11,    1.50)  DC
          2ND HIGHEST VALUE IS     153.43291 AT (  570821.00,  4178432.00,     3.19,     3.19,    1.50)  DC
          3RD HIGHEST VALUE IS     127.90795 AT (  570841.00,  4178412.00,     3.16,     3.16,    1.50)  DC
          4TH HIGHEST VALUE IS     115.39998 AT (  570861.00,  4178512.00,     3.41,     3.41,    1.50)  DC
          5TH HIGHEST VALUE IS     110.94518 AT (  570821.00,  4178412.00,     3.12,     3.12,    1.50)  DC
          6TH HIGHEST VALUE IS     102.96970 AT (  570821.00,  4178492.00,     3.21,     3.21,    1.50)  DC
          7TH HIGHEST VALUE IS     102.49192 AT (  570841.00,  4178512.00,     3.30,     3.30,    1.50)  DC
          8TH HIGHEST VALUE IS      99.55594 AT (  570801.00,  4178432.00,     3.11,     3.11,    1.50)  DC
          9TH HIGHEST VALUE IS      95.58947 AT (  571001.00,  4178492.00,     3.85,     3.85,    1.50)  DC
         10TH HIGHEST VALUE IS      95.31822 AT (  570801.00,  4178452.00,     3.12,     3.12,    1.50)  DC

 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                 ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                     ***        09:35:40
                                                                                                                      PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43824 HRS) RESULTS ***


                                    ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                     NETWORK
GROUP ID                       AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

PCV       1ST HIGHEST VALUE IS      16.65347 AT (  571141.00,  4178352.00,     3.89,     3.89,    1.50)  DC
          2ND HIGHEST VALUE IS      15.73445 AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
          3RD HIGHEST VALUE IS      15.70905 AT (  571161.00,  4178332.00,     3.90,     3.90,    1.50)  DC
          4TH HIGHEST VALUE IS      15.57554 AT (  571141.00,  4178272.00,     3.22,     3.22,    1.50)  DC
          5TH HIGHEST VALUE IS      14.94966 AT (  571161.00,  4178292.00,     3.62,     3.62,    1.50)  DC
          6TH HIGHEST VALUE IS      14.65639 AT (  571161.00,  4178352.00,     3.90,     3.90,    1.50)  DC
          7TH HIGHEST VALUE IS      14.20994 AT (  571141.00,  4178372.00,     3.90,     3.90,    1.50)  DC
          8TH HIGHEST VALUE IS      13.93112 AT (  571121.00,  4178252.00,     2.76,     2.76,    1.50)  DC
          9TH HIGHEST VALUE IS      13.82164 AT (  571161.00,  4178272.00,     3.38,     3.38,    1.50)  DC
         10TH HIGHEST VALUE IS      13.68038 AT (  571181.00,  4178332.00,     3.90,     3.90,    1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR


 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                 ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                     ***        09:35:40
                                                                                                                      PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*
```

DRAFT

```
                                   *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                   DATE                                                                    NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
S1       HIGH   1ST HIGH VALUE IS     139.31960  ON 16032013: AT (  571061.00,  4178432.00,     3.87,     3.87,    1.50)  DC
F1       HIGH   1ST HIGH VALUE IS    1369.32033  ON 14103115: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
B2S2     HIGH   1ST HIGH VALUE IS     622.89779  ON 17090206: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
B5S2     HIGH   1ST HIGH VALUE IS     554.16645  ON 15100806: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
B4S2     HIGH   1ST HIGH VALUE IS     533.50910  ON 15100806: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
B6S2     HIGH   1ST HIGH VALUE IS     432.62609  ON 15011906: AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
AS2F     HIGH   1ST HIGH VALUE IS    3120.37007  ON 17103108: AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
BS2F     HIGH   1ST HIGH VALUE IS    3970.80104  ON 17103108: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
CS2F     HIGH   1ST HIGH VALUE IS    3335.80607  ON 16121116: AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
S3       HIGH   1ST HIGH VALUE IS     797.55825  ON 15100806: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
F3       HIGH   1ST HIGH VALUE IS    5919.08948  ON 16121116: AT (  571081.00,  4178412.00,     3.86,     3.86,    1.50)  DC
S4       HIGH   1ST HIGH VALUE IS     745.14740  ON 15100307: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC
F4       HIGH   1ST HIGH VALUE IS    3928.42456  ON 17010616: AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
S7       HIGH   1ST HIGH VALUE IS    5406.54055  ON 16121216: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
S9       HIGH   1ST HIGH VALUE IS    3696.07136  ON 16121214: AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
S10      HIGH   1ST HIGH VALUE IS    3190.04141  ON 16121116: AT (  571121.00,  4178372.00,     3.88,     3.88,    1.50)  DC
S25      HIGH   1ST HIGH VALUE IS     350.64237  ON 17080406: AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC
F25      HIGH   1ST HIGH VALUE IS    6555.67797  ON 17103108: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
S31      HIGH   1ST HIGH VALUE IS     250.71697  ON 16092601: AT (  570941.00,  4178292.00,     2.68,     2.68,    1.50)  DC
S32      HIGH   1ST HIGH VALUE IS    5763.27208  ON 14122209: AT (  571041.00,  4178232.00,     2.50,     2.50,    1.50)  DC
S46      HIGH   1ST HIGH VALUE IS   20247.96979  ON 15011209: AT (  570821.00,  4178452.00,     3.11,     3.11,    1.50)  DC
S47      HIGH   1ST HIGH VALUE IS    8406.80394  ON 15011209: AT (  570821.00,  4178432.00,     3.19,     3.19,    1.50)  DC
S49      HIGH   1ST HIGH VALUE IS    8016.22855  ON 17010616: AT (  571101.00,  4178392.00,     3.88,     3.88,    1.50)  DC
S5354    HIGH   1ST HIGH VALUE IS    5954.97496  ON 16012809: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC
S55      HIGH   1ST HIGH VALUE IS    4978.76189  ON 16121214: AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC

 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                          ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                              ***        09:35:40
                                                                                                              PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                   *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***

                              ** CONC OF OTHER    IN MICROGRAMS/M**3                        **

                                                   DATE                                                                    NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)            RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

S5657    HIGH   1ST HIGH VALUE IS    4071.47643  ON 17103108: AT (  570981.00,  4178272.00,     2.69,     2.69,    1.50)  DC

S64      HIGH   1ST HIGH VALUE IS    5256.43118  ON 17103108: AT (  570961.00,  4178292.00,     2.73,     2.73,    1.50)  DC

S51      HIGH   1ST HIGH VALUE IS    5539.83466  ON 13012409: AT (  570861.00,  4178512.00,     3.41,     3.41,    1.50)  DC
```

DRAFT

```
PCV      HIGH   1ST HIGH VALUE IS     507.68932  ON 16012108: AT (  570921.00,  4178332.00,     2.88,     2.88,    1.50)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION  19191 ***   *** AB&I Foundry_A0062                                                    ***        03/03/21
 *** AERMET - VERSION  18081 ***   *** Rule 11-18 HRA                                                        ***        09:35:40
                                                                                                                        PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of         1143 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          760 Calm Hours Identified

 A Total of          383 Missing Hours Identified (  0.87 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2523       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
 ME W187    2523       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
 CN W305      59       WAKFLG: Stack height > or = EPA formula height for SRCID:           P20
```

DRAFT