

Air Quality



# **TETRA TECH**

# **CEQA AIR QUALITY TECHNICAL REPORT**

# FOR THE

# SAN FRANCISCO NATURAL AREAS MANAGEMENT PLAN

Prepared by

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#### **ACRONYMS AND ABBREVIATIONS**

ARB	California Air Resources Board
BAAQMD	Bay Area Air Quality Management District
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards (CAAQS)
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
EPA	Environmental Protection Agency
GHG	Greenhouse gas
HARP	Hot Spots Analysis Reporting Program
HI	Hazardous Index
$H_2S$	Hydrogen sulfide
HRA	Health Risk Assessment
ISCST	Industrial Source Code Short Term
Lbs	Pounds
Mph	miles per hour
MT	Metric tons
NAAQS	National Ambient Air Quality Standards
NO	Nitric oxide
NO <sub>2</sub>	Nitrogen dioxide
NOx	Nitrogen oxides
OEHHA	Office of Environmental Health and Hazard Assessment
O&M	Operating and maintenance
O <sub>3</sub>	Ozone
Pb	Lead
PM <sub>10</sub>	fine particulate matter equal to or less than 10 microns
PM <sub>2.5</sub>	fine particulate matter equal to or less than 2.5 microns
ROG	Reactive organic gas
SFRPD	San Francisco Recreation and Park Department
SCAQMD	South Coast Air Quality Management District
SO <sub>2</sub>	Sulfur dioxide
TACs	Toxic air contaminants
TSP	Total suspended particulate
URBEMIS	Urban Emissions Program
	C

#### **SECTION 1**

## **PROJECT DESCRIPTION**

The San Francisco Recreation and Park Department (SFRPD) proposes to implement the Significant Natural Resource Areas Management Plan at 32 Natural Areas in San Francisco and Pacifica. The largest individual project proposed under that plan is restoration of the wetland at Sharp Park located in Pacifica. The air quality analysis presented in this report analyzes the potential air quality impacts associated with the proposed restoration project. The estimated emissions from that project represent the highest level of emissions anticipated under the plan; this analysis serves as a guide for the anticipated emissions associated with other plan activities.

#### 1.1 **Project Location**

The proposed project is to restore the wetland at Sharp Park located in the city of Pacifica, County of San Mateo, California. Sharp Park is one of the largest SFRPD parks and is surrounded by significant open spaces. The park borders the Pacific Ocean and is bisected by Highway 1. The Sharp Park Golf Course and Laguna Salada are on the western side of Highway 1. Mori Point borders the southwestern edge, and Sweeney Ridge borders the park on the southeastern and eastern edges. The northern side of Sharp Park is bordered by undeveloped areas within the cities of Pacifica and San Bruno. The Natural Area accounts for 237.2 acres within Sharp Park and encompasses the upper canyon areas, portions of Sanchez Creek, and the Laguna Salada wetlands and associated vegetation.

The proposed project is in the area under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). BAAQMD is the public agency entrusted with regulating stationary sources of air pollution in the nine counties that surround San Francisco Bay: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, southwestern Solano, and southern Sonoma counties.

#### **1.2** Proposed Project Description

Following are the proposed main activities to restore the wetland at Sharp Park:

- Dredging to remove sediment and decaying vegetation in Laguna Salada, Horse Stable Pond, and the channel that connects the two water bodies;
- Re-contouring the shoreline to create shallow water habitat;
- Creating a habitat corridor between Horse Stable Pond and Laguna Salada;

- Creating an upland peninsula in the middle of the lagoon to provide snakes and frogs with refugia from feral cats and other predators; and
- Constructing upland mounds on the east side of the lagoon and between Laguna Salada and Horse Stable Pond.

#### **1.3 Types and Sources of Air Pollutants**

There are three major sources of emissions for this project:

- Fugitive dust emissions Dust is generally associated with excavation, windblown unpaved areas, vehicle and equipment travel on unpaved roads, and dirt/debris pushing. Dust generated during construction activities would vary substantially depending on the level of activity, the specific operations, and weather conditions;
- Construction Equipment Construction requires use of heavy-duty equipment, such as bulldozers, excavators, loaders, etc. Exhaust emissions from this equipment during construction activities would vary daily as activity levels change; and
- Vehicles Transport vehicles travelling to and from the site, including delivery trucks hauling materials and automobiles carrying workers, generate exhaust emission.

#### **SECTION 2**

# **PROJECT SETTING**

#### 2.1 Sources and Receptors

The emission sources for this project include: fugitive dust from site excavation, exhaust form construction equipment and exhaust from vehicles. The BAAQMD California Environmental Quality Act (CEQA) Air Quality guidelines require that air quality impact shall be assessed for receptors located within 1,000 feet of a project. These nearby receptors include residents, businesses, schools, churches, and hospitals. Figure 1 shows the emissions sources and the receptors within 1,000 feet of the proposed project. The area within 1,000 feet of the emissions source is often referred to as the zone of impact. The zone of impact is depicted as a circle on Figure 1. The nearest receptor is the golf course located east of the site where major construction activities will occur.

#### 2.2 Existing Air Quality Standards

In California, local responsibility for air quality is assigned to air quality management districts and air pollution control districts. The project site is located in San Mateo County, which is under the jurisdiction of the BAAQMD. The impact analysis contained in this section was prepared according to the methodologies provided by the BAAQMD [Ref. 1].

The Federal Clean Air Act (42 USC Section 7401-7671q; CAA) requires the adoption of the National Ambient Air Quality Standards (NAAQS) to protect the public health and welfare from the effects of air pollution. Current standards are set for sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), fine particulate matter equal to or less than 10 microns (PM<sub>10</sub>), fine particulate matter equal to or less than 2.5 microns (PM<sub>2.5</sub>), and lead (Pb). These pollutants are called criteria air pollutants. The State of California Air Resources Board (ARB) has established additional standards for criteria air pollutants that are generally more restrictive than the NAAQS. National and state standards are shown in Table 1 [Ref. 2].

The project site is located within the jurisdiction of the BAAQMD. The mission of the BAAQMD is to attain and maintain NAAQS and California Ambient Air Quality Standards (CAAQS) and to ensure air pollutants do not pose a nuisance or significant public health threat.

#### 2.3 Climate

Air quality in the project area is not only affected by various emission sources (mobile, industry, etc.) but also by atmospheric conditions such as wind speed, wind direction, temperature, and rainfall, etc.

The climate near the proposed project features mild and wet winters and cool summers with frequent fog or wind. The lowest winter temperatures ranged from 36°F to 23°F (2°C to  $-5^{\circ}$ C). The lowest temperature on record ranges from 30°F to 20°F ( $-1^{\circ}$ C to  $-7^{\circ}$ C). The average highest temperature ranges from 104°F to 116°F (40°C to 47°C).

The BAAQMD maintains a meteorological station near the proposed project (Fort Funston Meteorological Station). The station is located approximately 10 miles north of Sharp Park. Review of the wind data collected at this station shows that the prevailing wind is from the southwest with an average wind speed of 8 knots. Figure 2 shows the windrose plot.

#### 2.4 Air Pollutant Constituents and Attainment Status

The following describes the criteria air pollutants and their attainment status in the Bay Area Air Basin. A state or region is given the status of "attainment" or "unclassified" if ambient air quality standards have not been exceeded. A status of "nonattainment" for particular criteria air pollutants is assigned if the ambient air quality standard for that pollutant has been exceeded. Once designated as nonattainment, attainment status may be achieved after three years of data showing non-exceedance of the standard. When an area is reclassified from nonattainment to attainment, it is designated as a maintenance area, indicating the requirement to establish and enforce a plan to maintain attainment with the standard.

Table 2 presents the air quality attainment status of the Bay Area Air Basin. The Bay Area is classified "attainment" for all of the national standards with the exception of ozone. It is classified "non-attainment" for state standards for ozone and particulate matters ( $PM_{10}$  and  $PM_{2.5}$ ). Following is a brief description of the criteria air pollutants.

#### Ozone

Ozone results from chemical reaction of nitrogen oxides and reactive organic gases under sunlight influence. Ozone is a problematic air contaminant in the Bay Area Air Basin. Maximum ozone concentrations usually are recorded during summer months. The BAAQMD measured ambient air data show that state and national ozone air quality standards were exceeded approximately 32 days in 2009 [Ref. 3]. Under both national and state standards, the area is classified as nonattainment area for ozone.

## Nitrogen Dioxide

Nitrogen dioxide  $(NO_2)$  is a product of fuel combustion, during which the nitrogen in the air is converted to nitrogen dioxide  $(NO_2)$  and nitric oxide (NO). The combination of  $NO_2$  and NO is collectively known as nitrogen oxides (NOx). The BAAQMD measured ambient air data show that state and national  $NO_2$  air quality standards were not exceeded in 2009 [Ref. 3]. Under both national and state standards, the area is classified as attainment area for  $NO_2$ .

#### **Carbon Monoxide**

Carbon monoxide (CO) is a product of inefficient combustion, principally from automobiles and other mobile sources of pollution. CO reduces the oxygen-carrying capacity of the blood and in high concentrations can cause death. At lower concentrations, people exposed experience dizziness and headaches. The BAAQMD measured ambient air data show that state and national CO air quality standards were not exceeded in 2009 [Ref. 3]. Under both national and state standards, the area is classified as attainment area for CO.

#### **Sulfur Dioxide**

Sulfur dioxide (SO<sub>2</sub>) is produced when any sulfur-containing fuel is burned. Chemical plants that treat or refine sulfur or sulfur-containing chemicals also emit SO<sub>2</sub>. Because of the complexity of the chemical reactions that convert SO<sub>2</sub> to other compounds (such as sulfates), peak concentrations of SO<sub>2</sub> occur at different times of the year in different parts of the state, depending on local fuel characteristics, weather, and topography. SO<sub>2</sub> can cause bronchia constriction and may aggravate respiratory diseases. In moist environments, SO<sub>2</sub> may combine with water to form sulfuric acid, a component of acid deposition. The BAAQMD measured ambient air data show that state and national SO<sub>2</sub> air quality standards were not exceeded in 2009 [Ref. 3]. Under both national and state standards, the area is classified as attainment area for SO<sub>2</sub>.

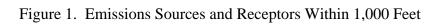
#### Fine Particulates (PM<sub>10</sub>, PM<sub>2.5</sub>)

Particulate matter in the air is composed of windblown fugitive dust; particles emitted from combustion sources (usually carbon particles); and organic, sulfate, and nitrate aerosols formed in the air from emitted hydrocarbons, sulfur oxides, and oxides of nitrogen. In 1984, the ARB adopted standards for fine particulate ( $PM_{10}$  - particulate matter of less than 10 microns), and phased out the total suspended particulate (TSP) standards used up to that time.  $PM_{10}$  standards were substituted for TSP standards because  $PM_{10}$  corresponds to the size range of inhalable particulate related to human health. In 1987, Environmental Protection Agency (EPA) also replaced national TSP standards with  $PM_{10}$  standards. In July 1997, the EPA adopted new standards for fine particulate matter less than 2.5 microns in diameter ( $PM_{2.5}$ ).

Particulates are a public health and welfare concern for several reasons. Particulates may be intrinsically toxic because of their inherent chemical and/or physical characteristics. Particulate matter may interfere with one or more of the mechanisms that normally clear the respiratory tract. Finally, fine particulates, which are easily carried deep into the lungs, may act as carriers of absorbed toxic substances. Thus elevated particulate concentrations may exacerbate pre-existing respiratory diseases such as bronchitis. Particulate matter, especially fine particulates, also interferes with visibility. The BAAQMD measured ambient air data show that state  $PM_{10}$  air quality standards were exceeded on 1 day in 2009 [Ref. 3]. The national  $PM_{2.5}$  air quality standards were exceeded on 11 days in 2009 [Ref. 3].

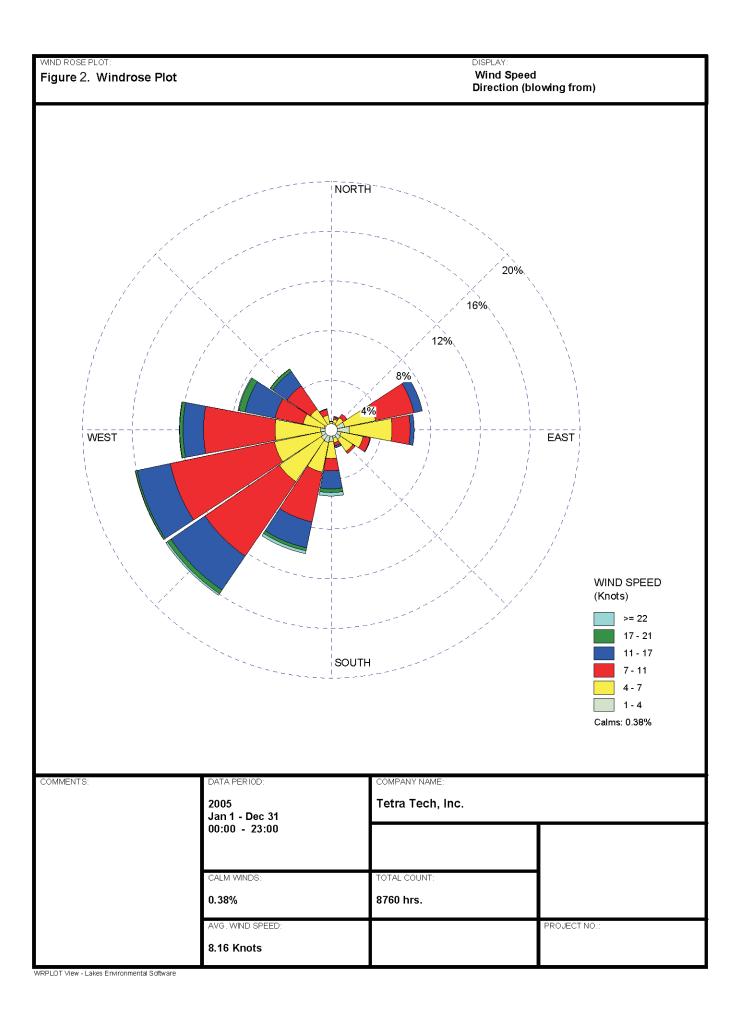
#### Lead

Lead is found in old paints and coatings, plumbing, and various other materials. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead.





0 ft 1,000 ft



Pollutant	Averaging	California	National Standards <sup>2</sup>		
	Time	Standards <sup>1</sup> (Concentration) <sup>3</sup>	Primary <sup>3, 4</sup>	Secondary <sup>3, 5</sup>	
Ozone (O <sub>3</sub> )	1 Hour	0.09 ppm	_		
	8 Hour	0.07 ppm	0.08 ppm <sup>6</sup>	0.08 ppm	
Particulate Matter	24 Hour	50 μg/m <sup>3</sup>	150 µg/m <sup>3</sup>	150 µg/m <sup>3</sup>	
(PM <sub>10</sub> )	Annual Arithmetic Mean	20 μg/m <sup>3</sup>	······································	50 μg/m <sup>3</sup>	
Particulate Matter	24 Hour		35 µg/m <sup>3</sup>		
(PM <sub>2.5</sub> )	Annual Arithmetic Mean	12 μg/m <sup>3</sup>	15 μg/m <sup>3</sup>		
Carbon Monoxide	8 Hour	9 ppm	9 ppm	• • · · · · · · · · · · · · · · · · · ·	
(CO)	1 Hour	20 ppm	35 ppm		
	8 Hour (Lake Tahoe)	6 ppm			
Nitrogen Dioxide (NO <sub>2</sub> )	Annual Arithmetic Mean	0.03 ppm	0.053 ppm		
	1 Hour	0.18 ppm	0.1 ppm		
Sulfur Dioxide (SO <sub>2</sub> )	Annual Arithmetic Mean		0.03 ppm		
	24 Hour	0.04 ppm	0.14 ppm		
	3 Hour				
	1 Hour	0.25 ppm			
Lead <sup>7</sup>	30 Day Average	1.5 μg/m <sup>3</sup>			
	Calendar Quarter		1.5 μg/m <sup>3</sup>	1.5 μg/m <sup>3</sup>	
Visibility Reducing Particles <sup>8</sup>	8 Hour	See footnote 8			
Sulfates	24 Hour	25 μg/m <sup>3</sup>			
Hydrogen Sulfide	1 Hour	0.03 ppm			
Vinyl Chloride <sup>7</sup>	24 Hour	0.01 ppm			

Table 1.	State	and	National	Air (	Quality	Standards
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 $\mu g/m^3$  – micrograms per cubic meter ppm – parts per million

1. California standards for ozone, carbon monoxide (except Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, suspended particulate matter ( $PM_{10}$ ,  $PM_{2.5}$ ) and visibility reducing particles, are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration in a year, averaged over three years, is equal to or less than the standard. For  $PM_{10}$ , the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150  $\mu$ g/m<sup>3</sup> is equal to or less than one. For  $PM_{2.5}$ , the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

3. Concentration expressed first in units in which it was promulgated; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect public health.

5. National Secondary Standards: The levels of air quality necessary to protect public welfare from any known or anticipated adverse effects of a pollutant.

6. New National 8-hour ozone and fine particulate matter standards were promulgated by EPA on July 18, 1997.

7. The ARB has identified lead and vinyl chloride as toxic air contaminants with no threshold level of exposure for adverse health effects determined. These actions allow for implementing control measures at levels below the ambient concentrations specified for these pollutants.

8. Extinction coefficient of 0.23 per kilometer, visibility of ten miles or more (0.07 - 30 miles or more for Lake Tahoe) due to particulates when relative humidity is less than 70 percent.

Air Pollutants	State	National
Ozone (1-Hour)	Non-attainment	N/A
Ozone (8-Hour)	Non-attainment	Non-attainment
PM <sub>2.5</sub>	Non-attainment	Non-attainment
PM10	Non-attainment	Unclassified
NO <sub>2</sub>	Attainment	Unclassified/Attainment
CO	Attainment	Attainment
SO <sub>2</sub>	Attainment	Attainment
Lead	Attainment	Attainment
Sulfates	Attainment	N/A
Hydrogen Sulfide	Unclassified	N/A
Visibility Reducing Particles	Unclassified	N/A

#### Table 2. Criteria Air Pollutant Attainment Status in the Bay Area

Source: BAAQMD 2010 [Ref. 2].

N/A – not applicable

#### SECTION 3

## THRESHOLDS OF SIGNIFICANCE

This section describes the air quality significant thresholds established by the BAAQMD. Section 4 presents the methodologies used to determine the air quality impacts associated with the proposed project and the actual air quality impacts using these methods.

For purposes of meeting national requirements, impact significance is related to conformance with the EPA-approved State Implementation Plan (SIP) and with the NAAQS. Air quality impacts would be significant if they exceed these standards or contribute to non-conformance. BAAQMD has published thresholds of significance for air quality, as shown in Table 3.

A project has a significant air quality impact if it does one of the following:

- 1. Generates total emissions that exceed the thresholds shown in Table 3; and/or
- 2. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1, or annual average  $PM_{2.5}$  emissions above  $0.3 \ \mu g/m^3$ .

A project with significant impacts must incorporate mitigation sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation.

	Construction- Related	Operational-Related		
Criteria Air Pollutants	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tons/yr)	
ROG	54	54	10	
NOx	54	54	10	
PM <sub>10</sub>	82 (exhaust only)	82	15	
PM <sub>2.5</sub>	54 (exhaust only)	54	10	
СО	None		rage), 20 ppm (1-hr erage)	
SOx	None	None	None	
GHGs (stationary sources)	None	10,000 MT/yr		
GHGs (non-stationary sources)	None	Compliance with Qualified GHG Reduction Strategy Or 1,100 MT of CO <sub>2</sub> e/yr Or 4.6 MT CO <sub>2</sub> e /yr (residen and employees)		
Health Risk (Individual Project)	Same as Operational-related Thresholds	ated Cancer Risk < 10 in a million, Chron Index <1, Acute Index <1, Ambien $PM_{2.5} < 0.3 \text{ ug/m}^3$ annual average, Zo of Impact = 1,000 feet from fence line		
Health Risk (cumulative)	Same as Operational-related Thresholds	Index <10, Acute PM <sub>2.5</sub> < 0.8 ug/ (from all local sou	) in a million, Chronic Index <10, Ambient m <sup>3</sup> annual average rces), Zone of Impact from fence line	

#### Table 3. Thresholds of Significance

 $CO_2e$  – carbon dioxide equivalent GHG – greenhouse gas lbs – pounds MT – metric ton ROG – reactive organic gas yr – year

#### **SECTION 4**

# **CRITERIA AIR POLLUTANT EMISSIONS**

This section presents the methodologies used to determine the types and quantities of the criteria air pollutant emissions and their impacts associated with the proposed Sharp Park restoration project.

#### 4.1 Methodology

#### 4.1.1 Construction Emissions

Air quality impacts associated with the proposed project are related to emissions that would occur during construction and subsequent operation of the proposed project. The principal sources of pollutants during construction would be the earth-moving activities, construction equipment, trucks bringing materials to site, and construction crew commuting vehicles. The sources of pollutants during project operations would be limited to the vehicles and equipment used by the operations and maintenance staff.

There are many air quality modeling tools available to assess air quality impacts of the project. Construction emissions were estimated based on the air emission modeling software package, ARB's URBEMIS 2007 [Ref. 4]. The model selection is consistent with the BAAQMD CEQA guidelines. The model contains data specific for each California air basin.

Construction is typically conducted in phases. The URBEMIS 2007 model divides construction into demolition, mass site grading, fine site grading, trenching, building construction, architectural coating, and paving phases. These model settings can be modified to fit applicable features of a specific project. For this project, the following construction phases are assumed:

- Barrier Installation and Ponds Dewatering
- Excavation and Grading
- Culvert Placement and Excavation
- Revegetation
- Rifle Range Excavation

Each construction phase can generate the following: (1) fugitive dust emissions resulting from soil disturbance activity; (2) emissions of air pollutants from fuel combustion in construction equipment; and (3) emissions of air pollutants from fuel combustion in vehicles used for worker commuting and material hauling and construction debris disposal.

Construction activities consist of wetland restoration activities in the Sharp Park area, west of Highway 1. The project is located in a coastal wetland which is currently home to several endangered species. The endangered species located on-site are migratory in nature and generally not present at Sharp Park from September to October each year.

The air quality impact analyses are conducted based on the assumption that construction activities would be conducted in a single year between May 1 and October 15. A summary of the quantitative construction activity information and assumptions used for the modeling analysis is provided in Appendix A

#### 4.1.2 **Operational-Related Emissions**

Planned maintenance activities during the operation phase could result in emissions. However, because proposed operations are expected to be substantially similar to current operations, negligible changes are anticipated in the operation emissions. As a result, these operation emissions are not expected to exceed the BAAQMD significance thresholds and are not quantified.

#### 4.2 **Results of Analysis**

#### 4.2.1 Project Level

Table 4 shows the URBEMIS model output summary. Criteria air pollutant emissions from construction activities were compared to the June 2010 BAAQMD CEQA significance thresholds. As shown in Table 4, construction criteria air pollutant emissions would exceed the BAAQMD threshold for NOx, and mitigation measures would be required. Appendix A provides the complete URBEMIS files, including construction assumptions, schedules, types and quantities of equipment, model input and output files.

#### 4.2.2 Cumulative

The BAAQMD considers projects that result in a significant criteria air pollutant or ozone precursor impact to also result in a cumulatively considerable contribution to criteria air pollutants or ozone precursors.

#### 4.3 Mitigation Measures

The project will be required to implement all feasible mitigation measures to reduce NOx emissions.

Following are the mitigation measures considered for NOx emissions reduction:

1. For any Sharp Park restoration activities between 2011 and 2015, use Tier 3 equipment with best available control technology where feasible. For programmatic projects conducted after 2015, use Tier 4 equipment or interim Tier 4 equipment equipped with best available control technology where such equipment exists.

- 2. Use temporary power provided by the Pacific Gas & Electric Company instead of diesel generators; where it is not possible to plug into the electric grid, use Tier 3 diesel generators and air compressors.
- 3. Use concrete batched from local plants to limit concrete trucks' travel time and the amount of diesel exhaust emitted.
- 4. Minimize idling times by either shutting equipment and vehicles off when not in use or limiting the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Provide clear signage for construction workers regarding idling rules at all access points.
- 5. Use on-road haul trucks model year 2007 or later.
- 6. Maintain and properly tune construction equipment in accordance with manufacturer's specifications. Have all equipment checked by a certified mechanic to determine that equipment is running in proper condition prior to operation.

There are commercially available post-combustion NOx emission control technologies, including selective catalytic reduction (SCR) system, selective non-catalytic reduction (SNCR) system, and NOxTECH. These technologies can reduce NOx emissions by up to 90 percent. However, they are more suitable for stationary equipment and have not been demonstrated and proven to operate effectively in mobile construction equipment. In summary, the proposed mitigation measures would reduce NOx emissions but not substantially. Using Tier 3 or similar engines would be the most effective way to reduce NOx emissions; however, it is not likely to reduce emissions below the significance threshold.

For dust control mitigation, the San Francisco Construction Dust Ordinance requires that all site preparation work, demolition, or other construction activities that have the potential to create dust or to expose or disturb more than 10 cubic yards or 500 square feet of soil must comply with specified dust control measures. For project sites greater than half an acre in size, the Ordinance requires that a Dust Control Plan be prepared and approved by the San Francisco Health Department. The SFRPD would be required to comply with the Ordinance and submit a Dust Control Plan for the Sharp Park restoration project and many of the programmatic projects.

In addition, BAAQMD fugitive emissions rule requires that fugitive dust be controlled with best available control measures so that the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. The BAAQMD fugitive emissions rule requires implementing dust suppression techniques to prevent fugitive dust from creating an off-site nuisance. Implementing these dust suppression techniques will reduce the fugitive dust generation (and thus the  $PM_{10}$  component). Compliance with these rules would reduce impacts on nearby sensitive receptors. Applicable dust suppression techniques include the following:

1. Water active sites. Locations where grading is to occur will be watered before earth moving activities;

- 2. All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least two feet of freeboard in accordance with the requirements of California Vehicle Code (CVC) section 23114 (freeboard means vertical space between the top of the load and top of the trailer);
- 3. Traffic speeds on all unpaved roads shall be reduced to 15 miles per hour or less.

The San Francisco Dust Control Ordinance includes these dust suppression requirements.

#### 4.4 Summary of Project's Criteria Air Pollutant Impacts

In summary, the air quality analysis concludes that the project would result in NOx emissions that exceed the significant thresholds established by the BAAQMD. During the long-term operation of the project, all criteria air pollutant emissions are expected to be similar to current emissions levels.

Because construction-related NOx emissions exceed the BAAQMD significance threshold, the project would also be considered to result in a considerable contribution to cumulative ozone precursor emissions.

# Table 4. CEQA Thresholds of Significance for Construction Emissions Versus Estimated Sharp Park Construction Emissions

	Average Daily ROG, lbs/day	Average Daily NOx, lbs/day	Average Daily PM <sub>10</sub> , lbs/day	Average Daily PM <sub>2.5</sub> , lbs/day	GHGs, CO2e (MT/year)
BAAQMD Threshold for Construction Emissions	54	54	82 (exhaust only)	54 (exhaust only)	None for construction
Sharp Park Construction Emissions	13	153	3.4 (exhaust only)	3.1(exhaust only)	1,630
Exceed Threshold?	No	YES	No	No	NA

NA = Not Applicable

#### **SECTION 5**

#### **GREENHOUSE GAS EMISSIONS**

This section presents the methodologies used to determine the types and quantities of the greenhouse gas (GHG) emissions and their impacts associated with the proposed Sharp Park restoration project.

#### 5.1 Methodology

#### 5.1.1 Construction Emissions

The BAAQMD does not have an adopted quantitative threshold of significance for constructionrelated GHG emissions. However, BAAQMD recommends that construction-related GHG emissions be quantified and that the project opponent make a determination on the significance of these construction-generated GHG emission impacts.

For this project, the sources of GHG are the fuel combustion in construction equipment, in vehicles used to haul materials and vehicles used by worker commuting to/from the site.

There are three types of GHG from fuel combustion, including carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O). GHG emissions are presented as carbon dioxide equivalents (CO<sub>2</sub>e). CO<sub>2</sub>e is computed based on global warming equivalence. The CH<sub>4</sub> global warming equivalence is 21 times that of CO<sub>2</sub>, and the N<sub>2</sub>O global warming equivalence is 310 times that of CO<sub>2</sub>.

Mathematically, the CO<sub>2e</sub> can be represented by the following equation:

 $CO_{2e}$  Emissions =  $CO_2$  Emissions + 21 x CH<sub>4</sub> Emissions + 310 x N<sub>2</sub>O Emissions

The BAAQMD has developed a GHG emission calculation tool (BGM Model). However, this model can only be used to estimate operation-related GHG emissions. Therefore, the URBEMIS model was used to estimate the GHG emissions during the construction phase of the proposed project.

#### 5.1.2 Operation Emissions

Planned maintenance activities during the operation phase could result in GHG emissions. However, because proposed operations are expected to be substantially similar to current operations, negligible changes are anticipated in the operation emissions. As a result, these operation GHG emissions are not expected to exceed the BAAQMD significance thresholds and are not quantified.

#### 5.2 **Results of Analysis**

#### 5.2.1 Project Level

Tetra Tech used the URBEMIS model to estimate the GHG emissions during the construction phase of the project. Based on the construction schedule, types and quantities of construction equipment, and numbers of haul trucks, etc., Tetra Tech estimated that the maximum  $CO_2$  emissions would be 21,777 pounds per day. Table 4 shows the calculation result.

The URBEMIS model provides a  $CO_2$  profile only and does not quantify  $CO_2e$ ,  $CH_4$  and  $N_2O$  emissions. Tetra Tech assumes that the  $CO_2$  emissions of 21,777 pounds per day are  $CO_2e$ . Justification of the assumption is as follows: For typical diesel-fueled combustion equipment used in construction activities, the emissions factors adjusted with global warming equivalence are:

(1) CO<sub>2</sub> emission factors are 22.4 pounds of CO<sub>2</sub>e per gallon consumed,

(2) CH<sub>4</sub> emission factors are 0.065 pounds of  $CO_2e$  per gallon consumed, and

(3)  $N_2O$  emission factors are 0.068 pounds of  $CO_2e$  per gallon consumed.

As shown in these emission factors, the  $CO_2$  profile is 99 percent of the total GHG generated in combustion equipment. Therefore, Tetra Tech assumes that the  $CO_2$  emissions of 21,777 lbs per day represent the  $CO_2$  levels.

The current BAAQMD CEQA guidelines have no quantitative GHG emissions significance threshold for construction. This GHG quantification is presented for information purpose only. The Sharp Park wetland restoration project has average  $CO_2e$  emissions of 21,777 lbs per day, which are converted to 3,593,205 pounds based on 5.5 months per one year of construction activities. This annual emission profile converts to 1,630 MT.

#### 5.2.2 Cumulative

The impacts of climate change are the cumulative result of GHG emissions and therefore a project-level analysis of GHG emissions is also considered an analysis of a project's contribution to cumulative effects of GHGs.

BAAQMD's approach is to identify the GHG emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce statewide GHG emissions. If a project would generate GHG emissions above the threshold level, it would be considered to contribute substantially to a cumulative impact. Based on this approach, the GHG emissions of the proposed project during the operation phase would not make a considerable contribution to cumulative GHG impacts.

#### 5.3 Mitigation Measures

The estimated project-level GHG emissions from operation would not have a significant impact; as result, no mitigation is required.

#### 5.4 Summary of Project's GHG Impacts

In summary, the air quality analysis concludes that during the long-term operation of the project, all GHG emissions are expected to be similar to current emissions levels. There are no GHG emissions thresholds established by the BAAQMD for construction activities.

#### **SECTION 6**

# HEALTH RISK ANALYSIS

This section presents the methodologies used to determine the health risks and the impacts associated with the proposed project.

#### 6.1 Methodology

#### 6.1.1 Construction

#### 6.1.1.1 Project-Level

During construction, toxic emissions are generated mainly from fuel combustion in the construction equipment. In order to determine the health impacts of these toxic emissions, a health risk assessment (HRA) was performed.

A HRA is an estimate of the probability that adverse health effects could occur due to exposure to toxic pollutants. A facility's air emissions, stack information, operation schedule, local weather conditions, chemical dose-response data, etc. are fed into a computer model to produce an estimate of the health risks to nearby people (receptors). HRA is performed in 3 steps: hazard identification, exposure assessment, and risk characterization.

#### Hazard Identification

Hazard identification refers to the identification of substances as carcinogens, reproductive toxins, chronic toxins, or acute toxins, or to the identification of a type of exposure as hazardous. Regulated hazardous substances are listed in BAAQMD's toxic rule and ARB's regulated toxic lists. The toxic air contaminants (TACs) used in the HRA include  $PM_{2.5}$ , diesel particulate matter (DPM) and acrolein. DPM and acrolein are byproducts of diesel fuel combustion. Sources of  $PM_{2.5}$  include activities such as earthmoving. There are other TACs from diesel combustion besides DPM and acrolein, but they are less potent and thus are not included in the HRA.

#### Exposure Assessment

Exposure assessment is the identification and quantification of all routes of human exposure to substances of concern. The Industrial Source Code Short Term Version 3 (ISCST3) model issued by EPA was used for estimation of offsite concentrations of TACs. Based on land use surrounding the proposed project and EPA guidelines, an urban profile was assumed. Meteorology data from the BAAQMD's Fort Funston Station were used. The model selection is consistent with the BAAQMD CEQA guidelines. The following inputs were used for the ISCST3 model.

#### 1. Emission Source Models

Construction activities were modeled as area sources placed over the area of wetland restoration activities. The project is expected to require soil export activities using haul trucks which have the potential to emit toxic air contaminants (TACs). Haul trucks travelling to and from the site were modeled as an area source extending <sup>1</sup>/<sub>4</sub> mile from the project site. Pollutants modeled include  $PM_{2.5}$ , DPM, and acrolein which are emitted from heavy construction equipment and haul trucks.

#### 2. Site Elevation

Elevation data and aerial photography was obtained from the United States Geological Survey (USGS) Seamless Data Warehouse [Ref. 5].

#### 3. Receptor Models

Modeled sensitive receptor locations included residents located to the north and south of the project site. The project site is currently surrounded by a golf course which is expected to be operational during construction activities. Therefore, sensitive receptor locations were placed in the golf course to account for people who may be present during construction activities. Receptor locations were placed at 50-meter intervals. Construction emission sources and receptors included in the model are presented in Figure 3. To estimate a worst-case health impact, the nearest sensitive receptor was assumed to be a residential child at the project fence line.

#### **Risk Characterization**

Risk characterization is the final step of the HRA. It quantifies the human health risk based on the exposure assessment and dose-response relationships (cancer potency factors and reference exposure levels). In this assessment, three types of human health effects were considered: 1) cancer, 2) chronic effects, and 3) acute effects. Health risks including cancer, chronic, and acute risks are calculated based on the Office of Environmental Health and Hazard Assessment (OEHHA) guidelines. In order to present the worst-case scenario, the BAAQMD recommends that cancer risk be weighted by a factor of 10 for exposure that occurs to an individual from the third trimester of pregnancy to two years of age. Health risk (cancer, chronic, and acute) was calculated using the ARB Hot Spots Analysis Reporting Program (HARP) which is based on OEHHA risk factors [Ref. 6]. Annual  $PM_{2.5}$  emissions from construction activities were also modeled to determine impacts on sensitive receptors.

Following is a summary of the OEHHA method to determine the cancer, chronic and acute health risk:

#### Cancer Risk

The cancer risks were calculated as the individual excess lifetime cancer risk (i.e., the probability that an individual may develop cancer from a lifetime exposure to the chemicals of concern).

There are different pathways that a toxicant can enter a human body. Gaseous toxicants can enter a human body through the inhalation pathway. Gaseous toxicants can also be deposited on soil, surface water, or plants, which can then enter a human body through ingestion and dermal pathways. Semi-volatile and metal toxicants can enter the body through inhalation, ingestion and dermal pathways.

For inhalation pathway, the cancer risk is computed using the following equation:

CRinh = 
$$(GLC \times CP \times CRAF \times BR \times EF \times ED \times 10^{-6}) / AT$$
 Eq. 1

Where:

CRinh	=	Cancer Risk through inhalation
		0
GLC	=	Annual Average Ground-level concentration (from air dispersion model)
CP	=	Cancer Potency factor
BR	=	Daily Breathing Rate
EF	=	Exposure frequency
ED	=	Exposure Duration
AT	=	Average Time Period
CRAF	=	Cancer risk adjustment factors:
		1.7 for resident receptors exposure
		1.0 for offsite worker exposure

OEHHA revised the HRA guideline in May 2009, which included procedures to consider the increased susceptibility of infants and children to carcinogens compared to adults. The revised procedures require incorporation of age sensitivity factors (ASFs) in the calculation of cancer risk for infants, children and adolescents. The ASFs results in weighting cancer risk by a factor of 10 for exposure that occurs from the third trimester of pregnancy to 2 years of age and a factor of 3 for exposure that occurs from 2 years through 15 years of age.

For the proposed project, the risks due to exposure of DPM thru the non-inhalation pathways are not considered. This is consisted with the BAAQMD guidelines [Ref. 7].

#### Chronic Risk

The potential for long-term chronic health effects is quantified by comparing the predicted level of exposure to a reference exposure level (REL). This ratio of predicted exposure to reference exposure is referred to as a chronic hazard index (HIc). HIc is calculated by summing the ratios of each toxic substance over its REL. The equation for estimating HIc is as follows:

HIc =  $\sum Ci / chronic RELi$ 

Where:

Ci	=	Ground-level concentration of substance i (annual average concentration)
RELi		Chronic Reference Exposure Level for substance i.

#### Acute Risk

In the same manner as the quantification of chronic health effects, the potential for short-term acute health effects was quantified using a hazard index. The acute hazard index (HIa) is calculated by dividing the maximum estimated hourly concentration of each toxic air pollutant by its reference short-term exposure levels. The equation for estimating HIa is as follows:

HIa =  $\sum Ci / Acute RELi$ 

Where:

Ci	=	Maximum hourly ground-level concentration of substance i
RELi	=	Acute Reference Exposure Level for substance i.

Table 5 provides the HRA input parameters.

#### 6.1.1.2 Cumulative

Cumulative health risk was determined by obtaining risk values from nearby sources of toxics from the BAAQMD website. Within 1,000 feet of the project area, there is only one source, which is a gas station owned and operated by the SFRPD for refueling of golf carts. Tetra Tech contacted the BAAQMD for the health risks from this facility. The BAAQMD determined that the risk from the SFRPD gas station is insignificant.

The project is located within 1,000 feet of a Highway 1, which is a major roadway. Vehicles on Highway 1 emit TACs and  $PM_{2.5}$ . Health risk impacts from these nearby traffic flows on Highway 1 were determined using BAAQMD roadway screening models.

Relative to the project site at Sharp Park in San Mateo County, Highway 1 runs north and south and is approximately 400 feet from the project site. Based on this location, the BAAQMD screening model was used to determine risks and  $PM_{2.5}$  emissions from Highway 1 [Ref. 8, 9]. The risk values and  $PM_{2.5}$  emissions profiles were added to project-level risks to determine the cumulative risks for the project.

#### 6.1.2 Operational

#### 6.1.2.1 Project-Level

During operation, planned activities would result in operational emissions. However, because proposed operations are expected to be substantially similar to current operations, negligible changes are anticipated in the operation emissions. As a result, health risks from these operation emissions are not quantified.

#### 6.1.2.2 Cumulative

Planned activities would result in operational emissions. However, because proposed operations are expected to be substantially similar to current operations, negligible changes are anticipated in the operation emissions. As a result, health risks from these operation emissions are not quantified.

#### 6.2 **Results of Analysis**

#### 6.2.1 Project Level

Table 6 summarizes the HRA results. The construction emissions would result in a less than significant impact with regard to TACs and health risk. Cancer risk and  $PM_{2.5}$  concentrations are presented in Figures 4 and 5 respectively. Figure 4 identifies the locations of the highest cancer risk, chronic risk and acute risk. Figure 5 shows the location of the highest  $PM_{2.5}$  concentrations. Appendix B provides the dispersion and risk model files. The output file data is provided electronically on CD.

#### 6.2.2. Cumulative

As shown in Table 6, the cumulative emissions would result in a less than significant impact related to TACs and health risk.

#### 6.3 Mitigation Measures

The estimated health risk is below the BAAQMD thresholds; therefore, no mitigation is required.

#### 6.4 Summary of Project's Health Risk Impacts

In summary, the HRA concludes that toxic emissions during short-term construction do not exceed the significance thresholds established by the BAAQMD. During the long-term operation of the project, all emissions and health risks are expected to be remained at current levels.

Input Parameters – ISCST3 MODEL		
Diesel Particulate Matter Run (Cancer and Chronic	On-site	
<u>Risk)</u>	Construction	Haul Route
DPM Emission Sources Modeled as Area Source, m <sup>2</sup>	153,994	22,052
Hours of Emissions, hrs/day	8	8
Emission Rate, g/s	3	3
Emission Rate, g/s-m <sup>2</sup>	1.95E-05	1.36E-04
Diesel Particulate Matter Run (Acute Risk)		
Emission Sources Modeled as Area Source, m <sup>2</sup>	153,994	22,052
Hours of Emissions, hrs/day	8	8
Emission Rate, g/s	1	1
Emission Rate, g/s-m <sup>2</sup>	6.49E-06	4.53E-05
<u>PM<sub>2.5</sub> Run</u>		
Emission Sources Modeled as Area Source, m <sup>2</sup>	153,994	22,052
Hours of Emissions, hrs/day	8	8
Seconds per day	28800	28800
Emission Rate, lbs/day	0.5	
Emission Rate, g/s	0.00845	8.41E-05
Emission Rage, g/s-m <sup>2</sup>	5.49E-08	3.82E-09
Input Parameters - HARP MODEL		
DDM Conser Determine Excton (m. //	1 105 00	

# Table 5. HRA Model Input Parameters

DPM Cancer Potency Factor (mg/kg-day) <sup>-1</sup>	1.10E+00	
Breathing Rate, (L/kg-day)	302	
Exposure Frequency (day/years)	365	
Exposure Duration (years)	1	
Average Time Period (days)	25,550	
Cancer Risk Adjustment Factor Resident	1.7	
Cancer Risk Adjustment Factor worker	1	
Age Sensitive Factors		
Third Trimester of pregnancy to 2 years of age	10	
2 years through 15 years of age	3	
Acrolein Acute Inhalation REL, µg/m <sup>3</sup>	2.5	Eyes; Respiratory System
Acrolein Chronic Inhalation REL, $\mu g/m^3$	0.35	Eyes; Respiratory System

DPM Acute Inhalation REL, $\mu g/m^3$	0	N/A
DPM Chronic Inhalation REL, $\mu g/m^3$	5.0	Respiratory System

#### Annual Emissions (lbs/year)

	<b>On-site</b>	<b>On-site</b>	
	Construction	Haul Truck	
PM <sub>10</sub> (DPM)	51.59	2.044	
PM <sub>2.5</sub>	47.46	1.881	
Acrolein	0.67	0.027	

#### Hourly Emissions (lbs/hr)

	On-site Construction	Haul Truck
PM <sub>10</sub> (DPM)	0.07	5.81E-03
PM <sub>2.5</sub>	0.07	5.34E-03
Acrolein	9.5E-04	7.56E-05

g/s – grams per second g/s-m<sup>2</sup> – grams per second per square meters hrs/day – hours per day L/kg-day – liters per kilograms per day  $m^2$  – square meters mg/kg-day – milligrams per kilograms per day  $\mu g/m^3$  – micrograms per cubic meters N/A – not applicable

	Health Risk (Individual Project)	Health Risk (Cumulative)	
BAAQMD	Cancer Risk < 10 in a million, Chronic Index <1,	Cancer Risk < 100 in a million, Chronic Index <10,	
Threshold for Construction	Acute Index <1, Ambient $PM_{2.5} < 0.3 \text{ ug/m}^3$ annual	Acute Index (no threshold)Ambient $PM_{2.5} < 0.8 \text{ ug/m}^3$ annual average (from	
Emissions	average, Zone of Impact = 1,000 feet from fence line	all local sources), Zone of Impact = 1,000 feet from fence line	
Sharp Park Construction Emissions	Cancer Risk = 0.62 in a million, Chronic Risk = 0.00248, Acute Risk = 0.0088 $PM_{2.5} = 0.04 \text{ ug/m}^3$	Cancer Risk = 2.22 in a million, Chronic Risk = 0.0045, $PM_{2.5} = 0.061 \text{ ug/m}^3$ (Note 1)	
Exceed Thresholds?	No	No	

Table 6. CEQA Thresholds of Significance for Construction Emissions and Health Risks

Note 1:

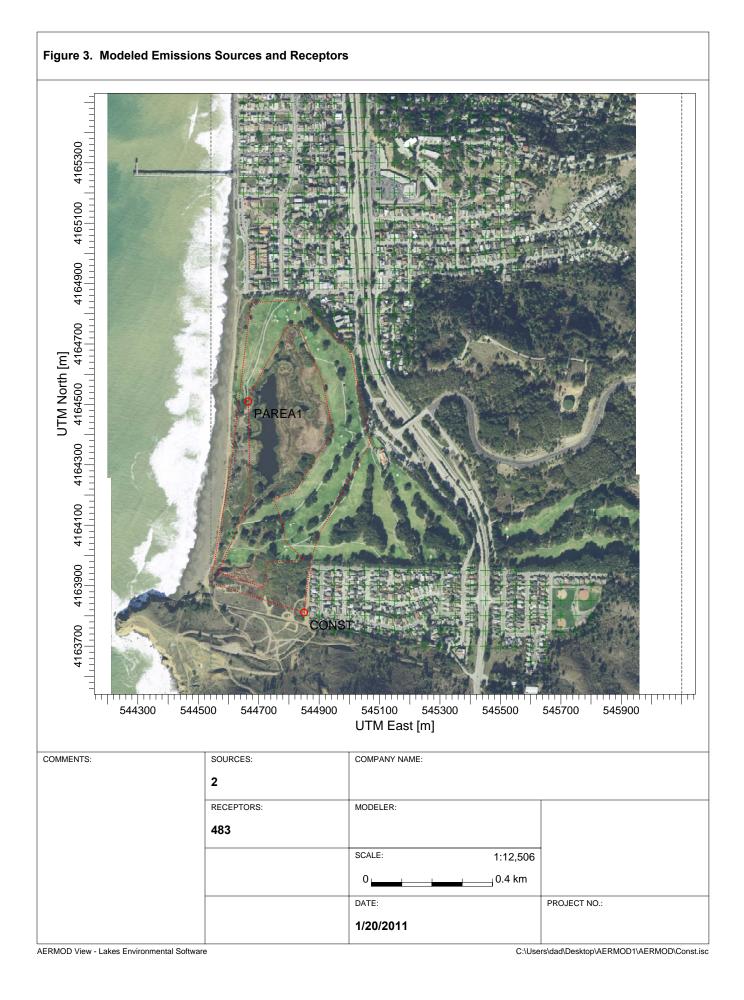
- Cumulative risks and PM<sub>2.5</sub> emission include contributions from Highway 1:

Cancer risk = 1.6 in a million

Chronic risk = 0.002

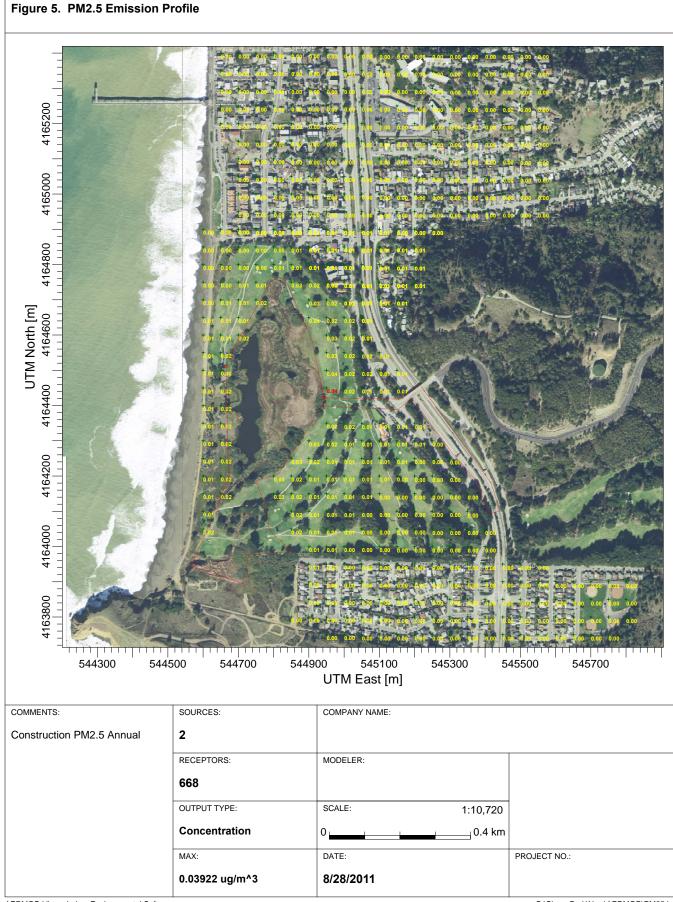
 $PM_{2.5} = 0.021 \ \mu g/m^3$ 

- Risks and  $PM_{2.5}$  emissions for the SFRPD's gas station are insignificant based on information provided by BAAQMD (Ref. 10)



# Figure 4. Health Risk Summary





AERMOD View - Lakes Environmental Software

G:\Sharp Park\New\AERMOD\PM25.isc

# **SECTION 7**

# CONCLUSIONS

This air quality analysis for the proposed Sharp Park wetland restoration project has the following conclusions.

# 7.1 Construction - Short-Term Impacts

During the construction phase, the short-term NOx emissions would exceed BAAQMD significant thresholds. Mitigation measures are proposed that can reduce such impacts.

All other short-term criteria air pollutant emissions would not exceed BAAQMD significant threshold.

The HRA concluded that toxic emissions during short-term construction do not exceed the significant health risk thresholds established by the BAAQMD.

# 7.2 **Operation - Long-Term Impacts**

During operation, planned maintenance activities would remain similar to current levels at the Park.

# **SECTION 8**

# REFERENCES

- 1. BAAQMD CEQA Guidelines, June 2010, http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES.aspx
- 2. Federal and State Air Quality Standards, http://hank.baaqmd.gov/pln/air\_quality/ambient\_air\_quality.htm
- 3. Bay Area Air Pollution Summary, 2009, http://www.baaqmd.gov/Divisions/Communications-and-Outreach/Air-Quality-in-the-Bay-Area/Air-Quality-Summaries.aspx
- 4. ARB's Urban Emission Model, 2007, http://www.urbemis.com
- 5. Elevation Data, http://seamless.usgs.gov/ (Accessed January 2011)
- 6. California Air Resources Board HotSpots Analysis and Reporting Program http://www.arb.ca.gov/toxics/harp/harp.htm
- 7. BAAQMD Air Toxic Analysis Guideline, "Recommended Methods for Screening and Modeling Local Risks and Hazards", May 2010, Page 79.
- 8. BAAQMD Air Toxic Analysis Guideline, "Recommended Methods for Screening and Modeling Local Risks and Hazards", May 2010, Section 3.1.2, Page 18.
- 9. BAAQMD Highway Screening Analysis Tool, "San Mateo County 6ft Elevation"
- 10. Email from Ms. Andrea Gordon of BAAQMD on June 16,2011

# **APPENDIX A**

# **URBEMIS MODEL RUNS**

_	_			Annual (				
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk
400	GRID	545550	4162650	from construction 6.74E-05	1.46E-06	(70 Yr Exposure) 9.80916E-09	(1 Yr Exposure) 1.40131E-10	(1 Yr Exposure adjusted by ASF) 1.40131E-09
402	GRID	545450	4162750	6.97E-05	1.62E-06	1.01499E-08	1.44999E-10	1.44999E-09
406	GRID	545400	4162800	7.12E-05	1.88E-06	1.04081E-08	1.48688E-10	1.48688E-09
401 403	GRID GRID	545550 545500	4162700 4162750	7.23E-05 7.37E-05	1.53E-06 1.58E-06	1.05164E-08	1.50234E-10	1.50234E-09
407	GRID	545450	4162800	7.55E-05	1.70E-06	1.0714E-08 1.09851E-08	1.53058E-10 1.56931E-10	1.53058E-09 1.56931E-09
412	GRID	545400	4162850	7.72E-05	1.98E-06	1.12776E-08	1.61108E-10	1.61108E-09
404	GRID	545550	4162750	7.75E-05	1.61E-06	1.12578E-08	1.60826E-10	1.60826E-09
408 405	GRID GRID	545500 545600	4162800 4162750	7.95E-05	1.66E-06	1.15493E-08	1.6499E-10	1.6499E-09
413	GRID	545450	4162850	8.10E-05 8.15E-05	1.69E-06 1.80E-06	1.17761E-08 1.18546E-08	1.6823E-10 1.69351E-10	1.6823E-09 1.69351E-09
409	GRID	545550	4162800	8.32E-05	1.70E-06	1.20943E-08	1.72775E-10	1.72775E-09
418	GRID	545400	4162900	8.39E-05	2.09E-06	1.22446E-08	1.74923E-10	1.74923E-09
414 410	GRID	545500	4162850	8.57E-05	1.75E-06	1.24504E-08	1.77863E-10	1.77863E-09
410	GRID GRID	545600 545350	4162800 4162950	8.66E-05 8.66E-05	1.80E-06 2.59E-06	1.25834E-08 1.26964E-08	1.79763E-10	1.79763E-09
419	GRID	545450	4162900	8.84E-05	1.90E-06	1.28508E-08	1.81378E-10 1.83582E-10	1.81378E-09 1.83582E-09
411	GRID	545650	4162800	8.93E-05	1.90E-06	1.29788E-08	1.85411E-10	1.85411E-09
415	GRID	545550	4162850	8.93E-05	1.81E-06	1.2965E-08	1.85214E-10	1.85214E-09
431 425	grid grid	545300 545400	4163000 4162950	8.95E-05	3.29E-06	1.32076E-08	1.8868E-10	1.8868E-09
420	GRID	545500	4162900	9.13E-05 9.24E-05	2.21E-06 1.86E-06	1.33079E-08 1.34162E-08	1.90113E-10 1.91659E-10	1.90113E-09 1.91659E-09
416	GRID	545600	4162850	9.24E-05	1.91E-06	1.34237E-08	1.91767E-10	1.91767E-09
432	GRID	545350	4163000	9.46E-05	2.77E-06	1.38624E-08	1.98034E-10	1.98034E-09
417	GRID	545650	4162850	9.50E-05	2.03E-06	1.38203E-08	1.97433E-10	1.97433E-09
426 421	GRID GRID	545450 545550	4162950 4162900	9.57E-05 9.59E-05	2.01E-06 1.93E-06	1.39129E-08	1.98755E-10	1.98755E-09
422	GRID	545600	4162900	9.88E-05	2.05E-06	1.39332E-08 1.43615E-08	1.99046E-10 2.05165E-10	1.99046E-09 2.05165E-09
427	GRID	545500	4162950	9.95E-05	1.98E-06	1.44466E-08	2.06379E-10	2.06379E-09
433	GRID	545400	4163000	9.93E-05	2.35E-06	1.44689E-08	2.06698E-10	2.06698E-09
423 428	GRID GRID	545650 545550	4162900 4162950	1.01E-04 1.03E-04	2.18E-06 2.06E-06	1.4729E-08	2.10414E-10	2.10414E-09
434	GRID	545450	4162000	1.04E-04	2.08E-06	1.49661E-08 1.50713E-08	2.13802E-10 2.15304E-10	2.13802E-09 2.15304E-09
445	GRID	545350	4163050	1.04E-04	2.96E-06	1.51576E-08	2.16537E-10	2.16537E-09
429	GRID	545600	4162950	1.06E-04	2.20E-06	1.53969E-08	2.19956E-10	2.19956E-09
435 430	GRID	545500 545650	4163000 4162950	1.08E-04	2.11E-06	1.56062E-08	2.22946E-10	2.22946E-09
446	GRID	545400	4163050	1.08E-04 1.08E-04	2.34E-06 2.51E-06	1.57022E-08 1.57907E-08	2.24318E-10 2.25582E-10	2.24318E-09
436	GRID	545550	4163000	1.11E-04	2.21E-06	1.60966E-08	2.29952E-10	2.25582E-09 2.29952E-09
447	GRID	545450	4163050	1.13E-04	2.28E-06	1.63602E-08	2.33717E-10	2.33717E-09
437 458	grid Grid	545600 545350	4163000 4163100	1.14E-04	2.37E-06	1.64995E-08	2.35707E-10	2.35707E-09
438	GRID	545350 545650	4163100	1.14E-04 1.15E-04	3.19E-06 2.52E-06	1.66163E-08 1.67744E-08	2.37375E-10 2.39634E-10	2.37375E-09
448	GRID	545500	4163050	1.16E-04	2.27E-06	1.68964E-08	2.41377E-10	2.39634E-09 2.41377E-09
439	GRID	545700	4163000	1.17E-04	2.68E-06	1.69871E-08	2.42673E-10	2.42673E-09
444	GRID	545950	4163000	1.16E-04	4.14E-06	1.71005E-08	2.44292E-10	2.44292E-09
443 440	grid Grid	545900 545750	4163000 4163000	1.16E-04 1.17E-04	3.79E-06 2.86E-06	1.71136E-08	2.4448E-10	2.4448E-09
442	GRID	545850	4163000	1.17E-04	3.43E-06	1.70756E-08 1.71255E-08	2.43937E-10 2.4465E-10	2.43937E-09 2.4465E-09
441	GRID	545800	4163000	1.17E-04	3.11E-06	1.7112E-08	2.44457E-10	2.44457E-09
459	GRID	545400	4163100	1.18E-04	2.70E-06	1.72114E-08	2.45878E-10	2.45878E-09
449 450	GRID GRID	545550 545600	4163050	1.20E-04	2.39E-06	1.73576E-08	2.47966E-10	2.47966E-09
450	GRID	545600 545450	4163050 4163100	1.22E-04 1.23E-04	2.57E-06 2.45E-06	1.77313E-08 1.78101E-08	2.53305E-10 2.5443E-10	2.53305E-09
451	GRID	545650	4163050	1.24E-04	2.74E-06	1.79783E-08	2.56833E-10	2.5443E-09 2.56833E-09
457	GRID	545950	4163050	1.23E-04	4.56E-06	1.81419E-08	2.59169E-10	2.59169E-09
456	GRID	545900	4163050	1.23E-04	4.22E-06	1.81563E-08	2.59375E-10	2.59375E-09
455 452	grid grid	545850 545700	4163050 4163050	1.24E-04 1.24E-04	3.82E-06 2.92E-06	1.81631E-08	2.59474E-10	2.59474E-09
453	GRID	545750	4163050	1.24E-04	3.14E-06	1.80985E-08 1.81615E-08	2.58549E-10 2.59451E-10	2.58549E-09 2.59451E-09
454	GRID	545800	4163050	1.24E-04	3.45E-06	1.81738E-08	2.59626E-10	2.59626E-09
470	GRID	545350	4163150	1.25E-04	3.44E-06	1.82676E-08	2.60966E-10	2.60966E-09
461	GRID	545500	4163100	1.26E-04	2.44E-06	1.83159E-08	2.61655E-10	2.61655E-09
462 471	GRID GRID	545550 545400	4163100 4163150	1.29E-04 1.30E-04	2.60E-06 2.90E-06	1.87821E-08 1.88565E-08	2.68316E-10 2.69379E-10	2.68316E-09
463	GRID	545600	4163100	1.31E-04	2.80E-06	1.9095E-08	2.69379E-10 2.72785E-10	2.69379E-09 2.72785E-09
469	GRID	545900	4163100	1.31E-04	4.68E-06	1.9332E-08	2.76171E-10	2.76171E-09
	GRID	545850	4163100	1.32E-04	4.26E-06	1.93668E-08	2.76668E-10	2.76668E-09
	grid Grid	545650 545800	4163100 4163100	1.32E-04 1.32E-04	2.99E-06	1.9281E-08	2.75443E-10	2.75443E-09
	GRID	545800	4163100	1.32E-04 1.33E-04	3.84E-06 3.20E-06	1.94016E-08 1.93745E-08	2.77165E-10 2.76779E-10	2.77165E-09 2.76779E-09
	GRID	545750	4163100	1.33E-04	3.47E-06	1.94135E-08	2.77335E-10	2.77335E-09
	GRID	545450	4163150	1.34E-04	2.64E-06	1.94209E-08	2.77442E-10	2.77442E-09
473	GRID	545500	4163150	1.37E-04	2.65E-06	1.99305E-08	2.84721E-10	2.84721E-09

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Pheterie         Type         UTM         DPM GLC         Charmer Risk         Charmer Risk         Charmer Risk         Charmer Risk           474         GRD         54550         413150         1.421-04         3.026-06         2.0022-26.8         2.2400115-10         2.0400115-00           475         GRD         54550         413150         1.422-04         3.026-06         2.040012-00         2.0400115-10         2.0400115-00           476         GRD         54560         1.425-04         3.327-06         2.040012-00         2.0400115-10         2.040012-00           477         GRD         54660         1.425-04         3.327-06         2.040025-10         2.040025-10         2.040012-00           381         GRD         54460         1.15550         3.015-04         4.3324-06         4.37444-02         5.84545-11         6.34002-00           383         GRD         54470         415550         3.415-04         5.151472-00         7.10322-10         7.10322-00           384         GRD         54470         415550         3.415-04         5.351-07         7.30224-00         7.30224-00           384         GRD         54470         415550         3.415-04         5.351-07         7.30224-00		_			Annual (				
474         GRD         54555         415150         1.48E-64         2.0005-00	Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC			
475         GRD         54600         415150         1.482-64         3.367-68         2.2022-26         2.204071E-10         2.94071E-09           476         GRD         54770         415150         1.482-64         3.347-68         2.017882E-08         2.84071E-10         2.94071E-09           477         GRD         54770         413150         1.482-64         3.347-68         2.017882E-08         2.84072E-10         2.94071E-08           381         GRD         54450         415550         3.026-64         4.3454-66         2.14442E-08         2.8409E-10         6.34082E-09           382         GRD         54450         415550         3.026-24         4.3345-66         4.31442-08         5.8545-67         1.1422-07           383         GRD         54470         415550         3.462-64         5.115-08         4.31342-08         7.11422-10         7.11422-07           384         GRD         54470         415550         3.462-64         5.15472-08         7.11422-10         7.13422-09           384         GRD         54470         415550         3.462-64         5.15472-08         7.33422-10         7.33422-09           384         GRD         544670         415555         3.462-64	474	GRID	545550	4163150					
476         6700         54560         4163100         1.42E-04         3.34E-06         2.07498E-08         2.09422E-10         2.99422E-00           380         GRID         54450         415500         2.34E-04         4.4E-00         4.11532E-08         5.88545E-00         5.88545E-00           381         GRID         54450         415500         2.33E-04         4.30345-01         5.3856-01         5.88545E-00           383         GRID         54450         3.41E-04         4.511E-06         4.50345-01         7.03322E-01         7.03322E-01         7.0332E-01         7.0377E-01         7.06143E-10					1.42E-04				
477         GRD         54700         418510         1.42504         3.546-00         2.08927-00         2.98927-00           381         GRD         544600         419530         3.335-44         4.345-00         6.24606-10         5.8545-60           382         GRD         544600         419530         3.335-44         4.355-00         4.3745-60         6.24606-10         6.24606-0           383         GRD         54450         416550         3.315-64         4.3152-00         7.03322-10         7.03322-0           384         GRD         54450         416550         3.315-64         5.7156-60         7.11432-10         7.13322-0           384         GRD         54470         416550         3.345-64         5.705-60         5.151476-00         7.35324-10         7.25924-00           384         GRD         54470         416550         3.345-64         5.201967-00         7.85555-00         7.85555-00           384         GRD         54450         3.345-64         5.301967-00         7.85246-00         8.35335-10         7.85246-00           385         GRD         54450         3.345-64         5.301967-00         7.85246-10         7.95246-00           386         GRD									
331         GRD         54450         4165600         2.885-02         5.855-02         6.575-02         6.575-02         6.575-02         6.575-02         6.575-02         6.575-02         7.8572-02         7.8572-01         7.3552-03         7.114-22-10         7.3552-03         7.114-22-10         7.3552-03         7.5552-03									
382         GRD         54450         3185-04         4.3749-09         6.24008-10         6.24008-09           382         GRD         54470         416500         3.385-44         6.585-68         6.57578-10         6.55847E-09           384         GRD         54480         415500         3.385-44         4.5951-58         8.5847E-10         7.53524E-09           384         GRD         54490         415500         3.285-44         4.5755-56         7.53524E-10         7.53524E-09           384         GRD         54490         415500         3.285-44         5.7058-46         7.53524E-10         7.53524E-09           384         GRD         54490         415500         3.285-44         5.515147E-08         7.53524E-10         7.65732E-09           384         GRD         54490         415500         3.3815-44         5.511485-48         7.83545E-10         7.65732E-09           384         GRD         54490         415550         3.3815-44         5.351498-710         8.67373E-09           384         GRD         54490         415500         3.382-64         5.544942E-10         7.83248E-10         8.79782E-09           385         GRD         544970         415500         3.382-64									
332         CHD         544700         4185500         3185-44         5046-56         4.603456-08         6.575385-10         6.5573385-10         6.575385-10           333         GRD         54450         4185500         3.325-44         4.815.50         4.869324-50         7.13322-10         7.529925-00         7.529925-00         7.529925-00         7.529925-00         7.529925-10         7.529925-00         7.529925-10         7.529925-00         7.529925-10         7.529925-00         7.529925-10         7.529925-00         7.529925-10         8.07395-10			544650						
383         GRID         544700         4165560         3.41E-0.4         5.11E-0.6         4.2122E-0.8         7.03332E-10         7.1332E-0.9           383         GRID         544580         4155500         3.58E-0.4         4.77E-0.6         5.15147E-0.8         7.35924E-10         7.35924E-0.9           383         GRID         544750         4155500         3.58E-0.4         1.72E-0.6         5.15147E-0.8         7.65145E-0.9         7.35924E-0.9         7.35924E-0.9           384         GRID         544550         4153500         3.81E-0.4         1.32E-0.6         5.5017E-0.8         7.0532E-10         7.59555E-0           1         GRID         544500         415550         3.81E-0.4         3.22E-0.6         5.54472E-0.8         7.99246E-10         7.59555E-0           384         GRID         544700         415550         3.81E-0.4         5.22E-0.6         5.54472E-0.8         7.99246E-10         7.57552E-0           384         GRID         544700         415550         4.22E-0.4         5.5472E-0.8         5.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         8.1122.6         <								6.57636E-10	
324         GRID         544650         4155450         3.45E-04         4.77E-06         4.37206-05         5.15177-08         7.11422E-10         7.11422E-09           344         GRID         5.44750         4155500         3.56E-04         5.15E-06         5.57094E-08         7.52992E-10         7.35924E-09           355         GRID         5.44450         4155500         3.87E-04         4.97E-06         5.45024E-08         7.8077E-10         7.40377E-09           364         GRID         5.44450         4155500         3.87E-04         1.87E-08         5.46024E-08         7.80377E-10         7.80377E-09           374         GRID         5.44600         4155500         3.87E-04         1.82E-06         5.564472-08         7.8056E-10         8.2036E-09           384         GRID         5.44600         4155500         3.92E-04         5.24E-00         5.77878E-08         8.02037E-10         8.2036E-10         8.2036E-09           384         GRID         5.44600         415550         4.22E-04         5.57207E-08         8.0436E-10         8.2036E-09           395         GRID         5.44500         415550         4.22E-04         5.57207E-08         8.03426E-10         8.372026-09           316									
383         GRID         5447 50         415600         3.58E-04         5.1917E-08         7.3892E-10         7.3892E-00           384         GRID         544860         3.58E-04         5.1917E-08         5.389E-08         7.68143E-10         7.68143E-09           384         GRID         544860         4.162400         3.72E-04         4.97E-06         5.389E-08         7.68143E-10         7.68147E-09           384         GRID         544900         4.152800         3.81E-04         1.22E-06         5.54977E-08         0.9738E-10         8.93778E-09           384         GRID         544900         415580         3.81E-04         5.28E-06         5.54977E-08         0.9738E-10         8.12056E-09           385         GRID         544800         415550         3.28E-04         5.78776-08         8.1255E-10         8.3408E-09           385         GRID         54460         415200         4.12E-04         5.28E-06         6.114306-08         8.77578E-10         8.77382E-09           385         GRID         54490         415500         4.22E-44         5.54462-08         8.4502E-10         8.3432E-00           385         GRID         54490         415500         4.22E-44         5.5460         6.1									
344         GRID         544700         115500         355E-04         51FE-06         5.27094E-08         7.52922E-10         7.82022C-09           2         GRID         54456         415580         3.08E-04         4.42E-05         5.44264E-08         7.80377E-10         7.80375E-01           34         GRID         54560         415580         3.87E-04         5.3524-728         7.80377E-10         7.80375E-01           344         GRID         54460         415580         3.87E-04         5.36472-788         1.8059E-10         7.80375E-09           354         GRID         54460         415580         4.01E-04         5.24E-06         5.54442-08         8.12056E-10         8.25533E-09           256         GRID         54450         415550         4.3E-04         5.78735E-08         8.7322E-10         8.25533E-09           365         GRID         54450         415550         4.3E-04         5.78735E-08         8.7322E-10         8.7322E-10         8.7322E-10         8.7322E-10         8.7322E-10         8.7322E-10         8.7322E-10         8.73735E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09         8.83435E-09									
2         GRD         54826         1         7.83377E-00         7.83377E-00           34         GRD         54850         3.81E-04         5.842-05         5.59472E-08         7.89245E-10         7.88245E-09           34         GRD         544600         4158500         3.81E-04         6.382-06         5.68472E-08         7.89245E-10         7.89245E-09           344         GRD         544700         4158400         3.94E-04         5.382-06         5.77782E-08         8.120961-10         8.20532E-01         8.20532E-01         8.20532E-01         8.20532E-09           345         GRD         544600         415550         4.32E-04         6.577872E-08         8.575782E-10         8.775782E-09           345         GRD         544600         4155400         4.22E-04         6.5742.05         6.31303E-08         8.575782E-10         8.75782E-09           345         GRD         544500         4155400         4.22E-04         6.34125-248         8.84028E-10         8.84328E-09           346         GRD         544500         415570         4.412E-04         1.34E-05         6.27246E-08         8.94038E-10         8.84328E-09           347         GRD         544500         415570         4.412E-04									
344         GRID         54470         416550         3.31E-04         5.81E-08         5.80108E-08         7.85856E-10         7.85856E-09           344         GRID         54480         415560         3.32E-04         6.38E-06         5.68817E-08         8.07736E-10         8.07739E-09           255         GRID         54460         415550         4.01E-04         5.24E-06         5.68817E-08         8.25538E-10         8.25538E-09           286         GRID         54460         415550         4.01E-04         5.24E-06         5.117273E-08         8.25538E-10         8.24558E-09           11         GRID         54460         416550         4.22E-04         5.46E-06         6.11326E-08         8.7322E-10         8.7322E-09           305         GRID         544560         415570         4.22E-04         5.46E-06         6.13336E-08         8.8428E-10         8.8428E-09           316         GRID         544560         415570         4.22E-04         5.46E-06         6.13336E-08         8.8428E-10         8.9439E-09           28         GRID         544560         415570         4.22E-04         5.46E-06         6.3392E-08         9.36235E-10         9.36235E-09           28         GRID         54									
1         GRD         54800         4183650         3.31E-04         1.32E-05         5.59/32E-05         7.89236E-10         7.89236E-05           325         GRD         54480         4165400         3.94E-04         5.32E-06         5.86442E-08         8.12036E-10         8.12036E-09           345         GRD         54460         4165400         3.94E-04         5.32E-06         5.78737E-08         8.25533E-10         8.26533E-09           346         GRD         544600         4165500         4.12E-04         5.372E-06         6.13037E-08         8.4355E-10         8.4655E-09           346         GRD         54460         4165600         4.22E-04         6.576-06         6.13033E-08         8.75762E-10         8.7702E-09           356         GRD         544650         4165600         4.22E-04         2.08E-05         6.21262-08         9.8008E-10         9.0008E-09           367         GRD         544650         4165300         4.22E-04         2.08E-06         6.23897E-08         9.8139E-10         9.0439E-09           27         GRD         544650         4163500         4.32E-04         2.38E-06         6.23897E-08         9.8139E-10         9.04392E-09           27         GRD         54460									
348         GRID         54600         415500         3.922-04         6.382-06         5.68172-08         8.0739E-10         8.10259E-10         8.10259E-00           286         GRID         544704         415530         4.122-04         5.226-06         5.64842E-08         8.2533E-10         8.2533E-09           345         GRID         544704         415530         4.122-04         5.226-06         5.64848E-08         8.4955E-10         8.2332E-09           316         GRID         544704         415500         4.122-04         5.247-04         6.5470-08         8.7331E-01         8.7331E-01         8.7331E-03           305         GRID         544500         415500         4.227-04         6.99E-06         6.1339E-08         8.8472-08         8.967068E-10         8.9133E-09           316         GRID         544500         415570         4.252-04         2.03E-05         6.3399E-08         8.94136E-10         8.9133E-09           27         GRID         544500         415570         4.45570         4.15570         4.15746-08         8.2474E-08         9.3323E-10         9.2744E-09           27         GRID         54570         4.15570         4.4520-4         1.31E-05         6.4920E-08         9.34721E-10									
325         GRID         54470         4165450         3.98E-04         5.29E-06         5.7973E-08         8.25533E-10         8.4955E-09           345         GRID         54470         418550         4.12E-04         5.2766         5.1172E-08         8.27533E-10         8.4955E-09           345         GRID         54470         41152-04         5.7266         6.1112E-08         8.73022E-10         8.73022E-00           356         GRID         54470         4115400         4.25E-04         6.576-66         6.1399E-08         8.83422E-10         8.9305E-09           367         GRID         544700         415570         4.25E-04         2.00-05         6.34152E-08         9.05931E-10         9.05931E-09           287         GRID         544500         415570         4.35E-04         2.00-05         6.34152E-08         9.05931E-10         9.05931E-09           287         GRID         544500         415570         4.35E-04         2.3746E-08         9.32325E-10         9.33235E-09           287         GRID         544500         416570         4.43E-04         5.2442E-08         9.3232E-10         9.49022E-09           286         GRID         544500         416570         4.43E-04         5.7424E-				4165600					
345         GRID         544750         4185500         412E-04         592E-06         594685E-07         84655E-07         84655E-07           366         GRID         546800         415550         412E-04         1752E-08         8.73028E-10         8.73028E-09           365         GRID         544000         415550         423E-04         545E-66         6.1339E-08         8.23712E-10         8.73752E-09           385         GRID         54650         415500         427E-04         5.96E-66         6.1339E-08         8.2342E-10         8.8342E-09           385         GRID         54650         415370         4.24E-04         2.03E-66         6.34132E-08         9.0531E-10         9.0531E-09           39         GRID         54550         41570         4.34E-04         2.03E-66         6.34132E-08         9.2744E-10         9.17372E-09           27         GRID         54550         415550         4.55E-46         6.2428E-08         9.3732E-10         9.3323E-09           236         GRID         54560         4158E-04         6.2428E-08         9.46322E-10         9.48522E-09           246         GRID         54560         458E-04         6.2428E-08         9.46322E-10         9.48502E-09									8.12059E-09
11         GRD         54580         413700         412E-04         5.77E-06         6.1145E-08         8.73512E-10         8.73512E-09           305         GRD         544700         415650         4.22E-04         5.45E-06         6.13332E-08         8.73512E-10         8.73512E-09           306         GRD         544850         415370         4.22E-04         5.45E-06         6.13333E-08         8.8428E-10         8.3428E-09           28         GRD         545750         415370         4.22E-04         1.34E-05         6.27344E-08         8.9608E-10         8.9608E-09           287         GRD         545750         415510         4.34E-04         1.31E-05         6.34528E-08         9.3233E-10         9.33238E-09           27         GRD         545700         415530         4.3EE-04         2.31E-05         6.34528E-08         9.3274E-10         9.274E-09           346         GRD         54500         415530         4.4EE-04         5.36E-06         6.32268E-08         9.357E-10         9.32328E-03           346         GRD         54500         415370         4.55E-04         7.38E-06         6.32028E-08         9.45722E-01         9.46322E-09           347 <grd< td="">         544500         415550<!--</td--><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></grd<>									
365         GRID         544800         415550         4.23E-04         6.57E-06         6.11436E-08         E.73F3E-00         8.73F3E-00           385         GRID         544850         4156400         4.22E-04         6.39E-06         6.13033E-08         8.3428E-10         8.3428E-09           385         GRID         544550         4153700         4.22E-04         1.54E-05         6.27246E-08         8.9408E-10         8.3428E-09           28         GRID         545500         4153750         4.41E-05         6.32597E-08         9.3325E-10         9.3235E-09           3         GRID         545700         4153750         4.41E-04         2.11E-05         6.427274-08         9.17722E-10         9.3235E-10         9.3235E-09           346         GRID         545700         415550         4.41E-04         6.022-06         6.4227E-08         9.1772E-10         9.4761E-09           346         GRID         545000         415500         4.58E-04         5.58E-06         6.4227E-08         9.4572E-10         9.44038E-09           346         GRID         54500         415500         4.58E-04         5.48E-04         9.4572E-10         9.759E-09           346         GRID         545500         415500 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
336         GRID         544700         4165400         4.25E-04         5.45E-06         6.13335-06         8.7326E-10         8.75726E-00           10         GRID         545600         4153706         4.25E-04         1.54E-05         6.27246E-08         8.9606E-10         8.6606E-09           28         GRID         54550         415370         4.25E-04         2.35E-05         6.24372E-08         8.9438E-10         9.274E-09           27         GRID         54550         415370         4.34E-04         1.31E-05         6.34208E-08         9.332E-10         9.3724E-09           27         GRID         54550         415510         4.45E-04         2.02E-06         6.2732F-08         9.3432E-10         9.3232E-09           28         GRID         544500         415500         4.55E-04         7.576E-06         6.53046E-08         9.44322E-10         9.4572E-10         9.572E-10         9.572E-09           38         GRID         544500         415500         4.55E-04         7.58E-04         6.53046E-08         9.4332E-10         9.4572E-09           38         GRID         544500         415500         4.55E-04         7.58E-04         6.53046E-08         9.5972E-10         9.5772E-09         9.572E-10									
10         CRID         545600         4163700         4.28E-04         1.24E-05         6.2724E-08         8.0608E-10         8.0608E-00           287         CRID         544560         4163700         4.3E-04         5.58E-06         6.25897E-08         8.04138E-10         9.05931E-00           287         CRID         544550         4163700         4.43E-04         1.31E-05         6.57464E-08         9.2744E-10         9.2744E-09           27         CRID         545750         4163500         4.45E-04         6.022-06         6.7232E-08         9.7671E-10         9.7671E-09           286         GRID         544800         4165500         4.59E-04         7.67E-06         6.63202E-00         9.46323E-10         9.46323E-09           386         GRID         545500         4156500         4.59E-04         7.67E-06         6.63202E-00         9.46323E-10         9.46522E-09           287         GRID         544500         4156500         4.59E-04         7.34E-06         6.63404E-08         9.7594E-10         9.7596E-09           286         54550         4.58E-04         7.34E-06         6.63419E-08         9.7694E-10         9.56722E-109           287         GRID         544550         4165750						5.45E-06			
28         CRID         544550         4163750         425E-04         2035-05         6.34152E-08         0.05931E-10         0.05931E-09           9         CRID         544550         4163700         4.43E-04         1.55E-06         6.23977E-08         9.3748E-10         9.32235E-10         9.32235E-10         9.32235E-09           326         CRID         544750         4165450         4.45E-04         6.02E-06         6.4237E-08         9.4761E-10         9.4761E-10         9.4761E-10         9.4761E-10           346         CRID         544800         4165500         4.59E-04         6.7822E-08         9.46323E-10         9.48232E-09           346         GRID         544800         4165500         4.59E-04         6.786E-06         6.63208E-08         9.46323E-10         9.48232E-09           346         GRID         544500         4165500         4.59E-04         7.38E-06         6.8308E-08         9.46323E-10         9.4822E-09           27         GRID         544500         4163700         4.59E-04         7.3819E-08         9.5728E-10         9.4822E-09           28         GRID         544504         4163700         4.39E-04         2.138E-05         6.80942E-03         9.56498E-03         9.56498E-03									
267         GRID         544550         4165300         4.34E-04         5.58E-06         6.22897E-08         8.94138E-10         8.94138E-10           27         GRID         54550         4163700         4.41E-04         2.11E-05         6.57464E-08         9.3235E-10         9.3235E-09           226         GRID         545500         4165500         4.52E-04         2.39E-06         6.77227E-08         9.6761E-10         9.47522E-09           48         GRID         544800         4165500         4.59E-04         6.62426E-06         9.43032E-10         9.48232E-09           386         GRID         544500         4165500         4.59E-04         1.74E-06         6.63005E-08         9.46322E-10         9.46322E-09           287         GRID         544500         4165370         4.59E-04         1.74E-06         6.63016E-08         9.47595E-10         9.7599E-09           286         GRID         544550         4165370         4.56E-04         6.6901E-08         9.7599E-10         9.7599E-09           286         GRID         544550         4165200         7.02E-04         0.602E-06         6.6901E-08         9.72015E-10         9.72015E-09           276         GRID         544550         4165200									
9         GRUD         545500         4183750         443E-04         131E-05         6.42208E-08         9.2744E-10         9.2744E-00           326         GRUD         544700         4183750         441E-04         6.02E-06         6.4237E-08         9.17672E-10         9.17672E-10           346         GRUD         544800         4185300         4.52E-04         6.02E-06         6.4237E-08         9.46323E-10         9.46323E-09           346         GRUD         544800         4165500         4.59E-04         6.76227E-08         9.46323E-10         9.46323E-09           346         GRUD         544800         4165500         4.59E-04         1.14E-05         6.88005E-08         9.44632E-10         9.56722E-10         9.55722E-10         9.55722E-10 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
27         GRID         545700         4165750         4.415-04         2.11E-05         6.57464E-08         9.17672E-10         9.16761E-10           326         GRID         545800         4163500         4.52E-04         2.39E-05         6.77327E-08         9.17672E-10         9.6761E-10         9.6761E-10           346         GRID         544800         4165500         4.59E-04         6.52426E-08         9.46323E-10         9.48009E-09           386         GRID         544500         4165370         4.59E-04         5.56E-06         6.6309E-08         9.5722E-10         9.48626E-09           267         GRID         544500         4165370         4.59E-04         5.56E-06         6.6303E-08         9.7699E-10         9.56489E-09           266         GRID         544550         4165250         4.72E-04         2.43E-05         7.03181E-08         9.25E-10         9.56489E-09         9.7015E-09           276         GRID         544550         4165250         4.70E-04         2.43E-05         7.03181E-08         9.205E-08         9.89942E-10         9.56489E-10         9.56489E-109           276         GRID         544550         4163700         476E-04         1.92E-08         7.93282E-08         1.046942E-08	9								
48         GRID         548000         4165500         4.52E-04         2.33E-05         6.77327E-08         9.87761E-00         9.87761E-00           386         GRID         544000         4165500         4.59E-04         7.58E-06         6.6360EE-08         9.46002E-10         9.46002E-09           86         GRID         544000         4165500         4.59E-04         7.58E-06         6.6360EE-08         9.4502E-10         9.46022E-09           287         GRID         544700         4165300         4.51E-04         5.66E-06         6.6403E-08         9.4502E-10         9.4502E-09           286         GRID         544850         4165520         4.53E-04         7.30E-05         6.83193E-08         9.4552E-10         9.759E-09           248         GRID         544550         4.53E-04         7.30E-05         6.83193E-08         9.0088E-10         9.9896E-10         9.9896E-09         1.00484E-09         1.00480E-09         1.00480E-09 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9.39235E-10</td><td>9.39235E-09</td></td<>								9.39235E-10	9.39235E-09
346         GRID         544000         4165500         4.59E-04         6.72420E-06         9.46322E-10         9.46322E-00         9.46322E-00           86         GRID         54500         4165700         4.59E-04         1.14E-05         6.66306E-08         9.46322E-10         9.46322E-09           287         GRID         545700         4165750         4.61E-04         5.66E-06         6.4038E-08         9.7572E-10         9.46328E-09           286         GRID         544500         4165530         4.51E-04         5.66E-06         6.4038E-08         9.7572E-10         9.7598E-09           346         GRID         544680         4165250         4.53E-04         7.08E-06         6.9942E-08         9.75948E-10         9.56449E-09           47         GRID         544563         4165250         4.72E-04         2.02E-05         7.03181E-08         9.0045E-09         1.00454E-09         1.00454E-09         1.00454E-08           37         GRID         544500         4163700         4.76E-04         1.98E-05         7.06285E-08         1.00458E-09         1.00458E-08           307         GRID         544500         4163700         4.37E-04         8.222-06         7.05707E-08         1.00817E-09         1.00815E-08									
386         GRID         544900         416500         4.59E-04         7.58E-06         6.5390E-08         9.48000E-10         9.48000E-08           287         GRID         544500         4163700         4.59E-04         5.66E-06         6.64038E-08         9.45526E-10         9.45626E-09           287         GRID         544550         4163750         4.59E-04         7.50E-06         6.64038E-08         9.55489E-10         9.45626E-09           246         GRID         544850         4165250         4.53E-04         7.30E-06         6.69542E-08         9.55489E-10         9.7398E-09           248         GRID         544550         4165250         4.72E-04         6.03E-06         5.031E-08         9.50498E-10         9.7015E-09           7         GRID         545450         4163750         4.76E-04         2.042E-05         7.031E-08         1.0048E-09         1.0048E-09         1.0048E-09         1.0049E-09         1.0049E-08         6.6712         1.0237E-09         1.02317E-09         1.02317E-09         1.02317E-09         1.02317E-09         1.02317E-09									
8         GRID         545500         4163700         4.58E-04         1.14E-05         6.68003E-08         9.5672E-10         9.55722E-09           287         GRID         546500         4163550         4.58E-04         2.13E-05         6.83193E-08         9.7699E-10         9.7599E-09           266         GRID         544550         4165550         4.58E-04         2.13E-05         6.83193E-08         9.56489E-10         9.56489E-09           248         GRID         544550         4165250         4.72E-04         6.03E-06         6.6941E-08         9.72015E-10         9.72015E-09           275         GRID         545500         4163700         4.76E-04         1.04E-05         6.29276E-08         9.89965E-10         9.99962E-09           25         GRID         545600         4163700         4.76E-04         1.04E-05         7.02370E-08         1.00454E-09         1.00469E-09           387         GRID         544750         4165400         4.87E-04         8.22E-06         7.0570F-08         1.02817E-09         1.02817E-09         1.02817E-09         1.02817E-09         1.02832E-08         1.03336-09         1.03336-09         1.03336-09         1.03336-09         1.03336-08         1.03336-09         1.03336-08         1.02832E-08									
28         GRID         54550         4183750         4.58E-04         7.13E-05         6.83103E-08         9.759E-10         9.759E-10         9.759E-09           366         GRID         544650         418550         4.63E-04         7.30E-06         6.69542E-08         9.759E-10         9.72015E-10         9.72015E-10           47         GRID         544550         418300         4.77E-04         2.43E-05         7.03181E-08         1.00454E-09         1.00454E-08           7         GRID         544550         418370         4.76E-04         1.04E-06         6.99E-08         1.0989E-10         9.98429E-10         9.98429E-10         9.98429E-10         9.98429E-10         9.98429E-10         9.98429E-10         9.98429E-09         1.0469E-08         1.0469E-09         1.0469E-08         1.0469E-09         1.0469E-08         1.0469E-09         1.0469E-08         1.0438E-09         1.0283E-09         1.0303E-08         24         GRID         544000         418550         4.99E-04         7.98E-06         7.21213E-08         1.00303E-09         1.03032E-09         1.03032E-09 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
366         GRID         544850         416550         4.36E-04         7.30E-06         6.69542E-08         9.564895E-10         9.72015E-10         9.72015E-09           248         GRID         54450         415320         4.70E-04         2.43E-05         7.03191E-08         9.72015E-10         9.72015E-09           7         GRID         545450         4133700         4.70E-04         2.43E-05         7.03191E-08         9.89965E-10         9.89965E-09           25         GRID         544500         4183700         4.76E-04         1.90E-05         7.05225E-08         9.999429E-10         9.999429E-09           307         GRID         544500         4185400         4.87E-04         6.18E-06         7.99262-08         1.0469E-09         1.00815E-09           46         GRID         544500         4183800         4.99E-04         6.18E-06         7.32832E-08         1.0469E-09         1.02833E-09           327         GRID         5444800         418540         4.99E-04         6.33E-06         7.1213E-08         1.02332E-09         1.02332E-09           327         GRID         544800         416550         5.03E-04         7.30226E-08         1.03326E-09         1.03326E-08           327         GRID <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
248         GRID         544650         415250         4.72E-04         6.03E-06         F.8041E-03         9.72015E-10         9.72015E-09           47         GRID         545450         4163700         4.76E-04         1.04E-05         6.92976E-08         1.00454E-09         1.00454E-08           7         GRID         545450         4163700         4.76E-04         1.98E-05         7.02205E-08         1.00898E-09         1.00898E-08           307         GRID         544500         4165400         4.85E-04         6.16E-06         6.998E-08         1.00898E-09         1.00898E-08           307         GRID         544700         4165400         4.85E-04         2.22E-06         7.05707E-08         1.00815E-09         1.00815E-08           46         GRID         545400         4163700         4.94E-04         1.15E-05         7.32832E-08         1.02832E-09         1.02833E-08           27         GRID         544900         4165550         4.99E-04         7.98E-06         7.21213E-08         1.0233E-09         1.0233E-08           24         GRID         544900         416550         4.99E-04         7.98E-06         7.204693-08         1.0332E-09         1.0332E-08           246         GRID									
47       GRID       545750       4163800       4.70E-04       2.43E-05       7.0316E-08       1.00454E-09         7       GRID       545600       4163750       4.76E-04       1.98E-05       7.06285E-08       9.89965E-10       9.89965E-09         307       GRID       544750       4165400       4.85E-04       6.16E-06       6.99E-08       9.99429E-10       9.99429E-09         387       GRID       544750       4165400       4.87E-04       8.22E-06       7.05707E-08       1.00815E-09       1.00456E-08         46       GRID       545700       4163800       4.99E-04       2.50E-05       7.23232E-08       1.0469E-09       1.0469E-08         327       GRID       544800       4165550       4.99E-04       6.93E-06       7.1213E-08       1.02817E-09       1.02817E-08         367       GRID       544800       4165550       4.99E-04       1.06E-05       7.3028E-08       1.0332E-09       1.0332E-08         24       GRID       544550       4.98E-04       1.06E-05       7.3028E-08       1.0332E-09       1.03323E-08         268       GRID       544500       5.03E-04       7.60E-06       7.24013E-08       1.0699E-09       1.0699E-08         347									
25         GRID         54500         4183750         4.76E-04         1.98E-05         7.02285E-08         1.00998E-09         1.00998E-08           307         GRID         544750         4185400         4.85E-04         6.16E-06         6.998E-08         9.99429E-10         9.99429E-09           46         GRID         544750         4185800         4.99E-04         2.250E-05         7.32282E-08         1.0469E-09         1.0469E-08           6         GRID         544700         4163700         4.94E-04         1.15E-05         7.19834E-08         1.0233E-09         1.02837E-08           327         GRID         544800         4165500         4.99E-04         6.93E-06         7.21213E-08         1.02817E-09         1.02837E-08           367         GRID         544550         4165500         5.03E-04         7.98E-06         7.21213E-08         1.0303E-09         1.03052E-08           24         GRID         544500         4165500         5.03E-04         7.96E-06         7.24238E-08         1.032528E-09         1.03523E-08           67         GRID         5448500         4165500         5.03E-04         7.60E-06         7.24938E-08         1.03523E-09         1.03523E-08           347         GRID									
307         GRID         544750         4165400         4.85E-04         6.16E-06         6.998E-08         9.9429E-10         9.9429E-09           387         GRID         544950         4165600         4.87E-04         8.22E-06         7.0577E-08         1.00815E-09         1.00815E-09           46         GRID         545700         4163800         4.90E-04         2.050-05         7.32832E-08         1.0469E-09         1.0469E-08           6         GRID         545400         4163700         4.94E-04         1.15E-05         7.1984E-08         1.02817E-09         1.02817E-09         1.02817E-08           367         GRID         544500         4165550         4.99E-04         6.93E-06         7.21213E-08         1.0303E-09         1.0303E-08           24         GRID         54550         4.99E-04         5.95E-06         7.2268E-08         1.03323E-09         1.0393E-08           67         GRID         54550         4.96E-04         2.97E-05         7.44693E-08         1.06899E-09         1.06999E-08           67         GRID         545600         5.10E-04         2.00E-05         7.62734E-08         1.0687E-09         1.06868E-08           5         GRID         546500         4163800									
387       GRID       544950       4165600       4.87E-04       8.22E-06       7.05707E-08       1.00815E-09       1.00815E-08         46       GRID       545700       4163800       4.90E-04       2.50E-05       7.32832E-08       1.0469E-09       1.0469E-08         327       GRID       544800       4165450       4.99E-04       6.93E-06       7.19719E-08       1.02833E-09       1.02833E-08         327       GRID       544800       4165450       4.99E-04       6.93E-06       7.12719E-08       1.02837E-09       1.02833E-09       1.02833E-09       1.0303E-08         347       GRID       544550       4165300       5.03E-04       2.95E-06       7.24683E-08       1.03352E-09       1.033523E-08         347       GRID       544550       4165500       5.03E-04       7.96E-06       7.27011E-08       1.03859E-09       1.03859E-08         347       GRID       544550       4163700       5.12E-04       1.35E-05       7.46933E-08       1.06888E-09       1.06868E-08         45       GRID       544550       4163700       5.12E-04       1.35E-05       7.4674E-08       1.06882E-09       1.06862E-08         29       GRID       544550       4163700       5.12E-04       3.0									
46       GRID       545700       4163800       4.90E-04       2.50E-05       7.32832E-08       1.0469E-09       1.0469E-08         6       GRID       545400       4163700       4.94E-04       1.15E-05       7.1984E-08       1.02813E-09       1.02833E-09       1.02833E-08         327       GRID       544800       4165550       4.99E-04       6.93E-06       7.21213E-08       1.0303E-09       1.0303E-08         24       GRID       544700       4165500       5.03E-04       5.95E-06       7.24263E-08       1.03523E-09       1.03523E-08         288       GRID       545800       4165800       5.03E-04       2.97E-05       7.48993E-08       1.08699E-09       1.08699E-08         347       GRID       545800       4163800       5.10E-04       2.97E-05       7.48993E-08       1.08692E-09       1.08689E-08         347       GRID       545800       5.12E-04       1.35E-05       7.48074E-08       1.08686E-09       1.08686E-08         45       GRID       545600       5.12E-04       1.35E-05       7.48074E-08       1.0687E-09       1.08686E-08         229       GRID       544500       4163500       5.19E-04       3.02E-05       7.81311E-08       1.0161E-09       1.10									
6       GRID       545400       4163700       4.94E-04       1.15E-05       7.19834E-08       1.02831E-09       1.02831E-08         327       GRID       544800       4165550       4.99E-04       6.93E-06       7.19719E-08       1.02817E-09       1.02831E-08         24       GRID       544550       4.19550       4.99E-04       7.96E-06       7.24263E-08       1.04326E-09       1.04326E-08         248       GRID       54550       4.16350       5.03E-04       2.97E-05       7.48993E-08       1.06999E-09       1.06999E-00         347       GRID       544800       416550       5.03E-04       2.97E-05       7.48993E-08       1.08962E-09       1.06899E-08         5       GRID       544850       4165700       5.10E-04       2.60E-05       7.62734E-08       1.08962E-09       1.08962E-08         455       GRID       545650       4163700       5.10E-04       2.60E-05       7.62734E-08       1.0637E-09       1.0637E-08         259       GRID       544650       4165500       5.19E-04       3.00E-05       7.51177E-08       1.07311E-09       1.0637E-08         288       GRID       54550       4163700       5.28E-04       1.42E-05       7.71261E-08       1.1018E-09<	46	GRID	545700						
367       GRID       544900       4185550       4.99E-04       7.98E-06       7.21213E-08       1.0303E-09       1.0303E-08         24       GRID       545550       4163750       4.96E-04       1.66E-05       7.30285E-08       1.04326E-09       1.03528E-08         268       GRID       544700       4165300       5.03E-04       2.97E-05       7.48993E-08       1.06599E-09       1.03529E-08         347       GRID       544850       4165500       5.03E-04       7.60E-06       7.27011E-08       1.03859E-09       1.03629E-08         5       GRID       544550       4165700       5.10E-04       2.60E-05       7.62734E-08       1.06962E-09       1.06868E-09         45       GRID       545650       4165200       5.10E-04       2.60E-05       7.62734E-08       1.0637E-09       1.0637E-08         229       GRID       545650       4165600       5.19E-04       1.41E-05       7.5846E-08       1.08351E-09       1.08351E-08         23       GRID       545500       4163505       5.32E-04       3.22E-05       7.8131E-08       1.1018E-09       1.1018E-08         4       GRID       54550       416370       5.32E-04       6.32E-05       7.9367E-08       1.09865E-09									
24       GRID       545550       4163750       4.96E-04       1.66E-05       7.30285E-08       1.04326E-09       1.04326E-08         268       GRID       544700       4165300       5.03E-04       5.95E-06       7.24663E-08       1.03523E-09       1.03523E-08         347       GRID       543850       4163850       4.96E-04       2.97E-05       7.48034E-08       1.06699E-09       1.03699E-08         347       GRID       544850       4165500       5.03E-04       7.60E-06       7.27011E-08       1.03859E-09       1.08668E-08         5       GRID       545650       4163800       5.10E-04       2.60E-05       7.62734E-08       1.06868E-09       1.08668E-08         45       GRID       544650       4165200       5.16E-04       6.60E-06       7.44593E-08       1.0637E-09       1.07311E-08         229       GRID       544650       4163500       5.19E-04       9.00E-06       7.51177E-08       1.07311E-09       1.07311E-08         388       GRID       54550       4163570       5.19E-04       3.02E-05       7.81311E-08       1.11616E-09       1.11816E-08         4       GRID       54550       4163500       5.32E-04       6.32E-06       7.6975E-08       1.09484E-0									
268         GRID         544700         4165300         5.03E-04         5.95E-06         7.24663E-08         1.03523E-09         1.03523E-08           67         GRID         545800         4165500         5.03E-04         2.97E-05         7.48993E-08         1.03523E-09         1.03523E-08           347         GRID         544850         4165500         5.03E-04         7.60E-06         7.24701E-08         1.03859E-09         1.03659E-08           45         GRID         545350         4163700         5.12E-04         1.35E-05         7.48074E-08         1.06868E-09         1.0637E-08           229         GRID         544650         4165200         5.16E-04         6.60E-06         7.417E-08         1.07311E-09         1.0637E-08           388         GRID         545500         4165500         5.19E-04         1.41E-05         7.5846E-08         1.08351E-09         1.0637E-08           23         GRID         545500         4165350         5.32E-04         1.42E-05         7.71261E-08         1.1018E-09         1.10852         1.09484E-09         1.04848E-08           288         GRID         544500         4165350         5.32E-04         6.32E-05         7.9367E-08         1.13381E-09         1.13841E-08 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
67       GRID       545800       4163850       4.96E-04       2.97E-05       7.48993E-08       1.06999E-09       1.06999E-08         347       GRID       544850       4165500       5.03E-04       7.60E-06       7.27011E-08       1.03859E-09       1.08686E-08         45       GRID       54550       4163700       5.12E-04       1.35E-05       7.48074E-08       1.0866E-09       1.08686E-08         229       GRID       544650       4165200       5.10E-04       6.60E-06       7.44574E-08       1.0637E-09       1.0837E-08         388       GRID       545500       4163700       5.19E-04       9.00E-06       7.51177E-08       1.07311E-09       1.0731E-08         23       GRID       545500       4163750       5.19E-04       3.02E-05       7.81311E-08       1.1018E-09       1.10851E-08         66       GRID       54550       4163700       5.28E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09484E-08         288       GRID       544950       416550       5.32E-04       8.69E-06       7.9367E-08       1.13381E-09       1.13381E-08         388       GRID       544950       416550       5.32E-04       8.69E-06       7.87608E-08       1.12515E-09 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
5       GRID       545350       4163700       5.12E-04       1.35E-05       7.48074E-08       1.06868E-09       1.06868E-08         45       GRID       546850       4163800       5.10E-04       2.60E-05       7.62734E-08       1.08962E-09       1.08962E-08         229       GRID       546500       4165200       5.19E-04       9.00E-06       7.44593E-08       1.0637E-09       1.0637E-08         388       GRID       545500       4163750       5.19E-04       1.02E-05       7.5846E-08       1.08351E-09       1.07311E-08         23       GRID       545500       4163750       5.19E-04       3.02E-05       7.81311E-08       1.11616E-09       1.1085-08         4       GRID       545750       4163850       5.32E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09965E-08         368       GRID       544950       4165550       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         368       GRID       544950       4163750       5.43E-04       1.27E-05       7.91309E-08       1.12515E-09       1.12515E-08         368       GRID       544950       4165500       5.43E-04       7.0E-06       7.89675E-08       1.13044E-08 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.97E-05</td> <td></td> <td></td> <td></td>						2.97E-05			
45       GRID       545650       4163800       5.10E-04       2.00E-05       7.62734E-08       1.00962E-09       1.08962E-08         229       GRID       544650       4165200       5.16E-04       6.60E-06       7.44593E-08       1.0637E-09       1.0637E-08         388       GRID       545500       4163750       5.19E-04       9.00E-06       7.51177E-08       1.07311E-09       1.07311E-08         23       GRID       545500       4163750       5.19E-04       3.02E-05       7.81311E-08       1.11616E-09       1.08351E-08         66       GRID       545750       4163850       5.19E-04       3.02E-05       7.71261E-08       1.1018E-09       1.1018E-08         4       GRID       544500       4165350       5.32E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09484E-09         368       GRID       54450       4165350       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         368       GRID       54450       4163700       5.39E-04       1.42E-05       7.91309E-08       1.13044E-09       1.12515E-08         37       GRID       54450       4163700       5.32E-04       8.40E-06       7.88708E-08       1.12622E-09 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
229       GRID       544650       4165200       5.18E-04       6.60E-06       7.44593E-08       1.0637E-09       1.0637E-08         388       GRID       545000       4165600       5.19E-04       9.00E-06       7.51177E-08       1.07311E-09       1.07311E-08         23       GRID       545500       4163750       5.19E-04       1.41E-05       7.5846E-08       1.08351E-09       1.08351E-08         66       GRID       545500       4163700       5.28E-04       1.42E-05       7.71261E-08       1.11616E-09       1.11616E-08         288       GRID       544750       4165350       5.32E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09484E-08         368       GRID       544950       4165350       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         44       GRID       54520       4163700       5.32E-04       2.55E-05       7.9367E-08       1.12515E-09       1.12515E-08         22       GRID       54550       5.32E-04       2.55E-05       7.91309E-08       1.13044E-09       1.13044E-08         348       GRID       54550       4163700       5.43E-04       7.10E-06       7.89675E-08       1.12622E-09       1.12622E									
388       GRID       545000       4165600       5.19E-04       9.00E-06       7.51177E-08       1.07311E-09       1.07311E-08         23       GRID       545500       4163750       5.19E-04       1.41E-05       7.5846E-08       1.08351E-09       1.08351E-08         66       GRID       545750       4163850       5.19E-04       3.02E-05       7.81311E-08       1.11616E-09       1.11616E-08         4       GRID       545300       4163700       5.28E-04       1.42E-05       7.71261E-08       1.1018E-09       1.09484E-08         288       GRID       544750       4165350       5.32E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09484E-08         368       GRID       544950       4165350       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         348       GRID       545250       4163750       5.43E-04       1.27E-05       7.91309E-08       1.12622E-09       1.12622E-08         348       GRID       544800       4165400       5.48E-04       7.10E-06       7.88351E-08       1.12622E-09       1.12622E-08         348       GRID       544800       4165400       5.48E-04       7.0E-05       8.16923E-08       1.16703E	+								
23       GRID       545500       4163750       5.19E-04       1.41E-05       7.5846E-08       1.08351E-09       1.08351E-08         66       GRID       545750       4163850       5.19E-04       3.02E-05       7.81311E-08       1.11616E-09       1.11616E-08         4       GRID       545300       4163700       5.28E-04       1.42E-05       7.71261E-08       1.1018E-09       1.09484E-08         288       GRID       544750       4165350       5.32E-04       6.32E-06       7.66387E-08       1.09464E-09       1.09484E-08         368       GRID       544950       4165550       5.32E-04       2.55E-05       7.9367E-08       1.03965E-09       1.03965E-08         44       GRID       545600       4163700       5.32E-04       2.55E-05       7.9367E-08       1.13311E-09       1.13041E-08         33       GRID       545450       4163700       5.43E-04       1.27E-05       7.91309E-08       1.12615E-09       1.12622E-08         348       GRID       544800       4165400       5.48E-04       7.10E-06       7.88351E-08       1.12811E-09       1.12622E-08         369       GRID       54550       4163700       5.48E-04       7.10E-06       7.9679E-08       1.13828E-09<				4165600					
4       GRID       545300       4163700       5.28E-04       1.42E-05       7.71261E-08       1.1018E-09       1.1018E-08         288       GRID       544750       4165350       5.32E-04       6.32E-06       7.66387E-08       1.09484E-09       1.09484E-08         368       GRID       544950       4165550       5.32E-04       8.69E-06       7.69752E-08       1.09965E-09       1.09484E-08         44       GRID       545600       4163800       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         3       GRID       545250       4163750       5.43E-04       1.46E-05       7.87608E-08       1.12515E-09       1.12515E-08         22       GRID       545400       416570       5.43E-04       1.27E-05       7.91309E-08       1.12622E-09       1.12622E-08         308       GRID       544800       4165400       5.48E-04       7.10E-06       7.89675E-08       1.12811E-09       1.12811E-08         389       GRID       54450       4165400       5.48E-04       7.90E-06       7.96799E-08       1.13828E-09       1.13828E-08         328       GRID       54550       5.52E-04       7.90E-06       7.97155E-08       1.13879E-09       1.13828E									
288       GRID       544750       4165350       5.32E-04       6.32E-06       7.66387E-08       1.0946E-09       1.09484E-08         368       GRID       544950       4165550       5.32E-04       8.69E-06       7.69752E-08       1.09965E-09       1.09484E-08         44       GRID       545600       4163800       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.1381E-08         3       GRID       545250       4163750       5.43E-04       1.27E-05       7.91309E-08       1.13044E-09       1.13044E-08         22       GRID       545450       4163750       5.43E-04       1.27E-05       7.91309E-08       1.13044E-09       1.13044E-08         348       GRID       544800       4165400       5.48E-04       7.10E-06       7.88351E-08       1.12622E-09       1.12622E-08         308       GRID       544800       4165400       5.48E-04       7.10E-06       7.98675E-08       1.13281E-09       1.12810E-08         389       GRID       54550       5.50E-04       9.88E-06       7.96799E-08       1.13828E-09       1.13828E-08         328       GRID       544800       4165450       5.52E-04       7.90E-06       7.97155E-08       1.13879E-09       1.18									
368       GRID       544950       4165550       5.32E-04       8.69E-06       7.69752E-08       1.09965E-09       1.09965E-08         44       GRID       545600       4163800       5.32E-04       2.55E-05       7.9367E-08       1.13381E-09       1.13381E-08         3       GRID       545250       4163700       5.39E-04       1.46E-05       7.87608E-08       1.12515E-09       1.12515E-08         22       GRID       545450       4163750       5.43E-04       1.27E-05       7.91309E-08       1.13044E-09       1.13044E-08         348       GRID       544900       4165500       5.48E-04       7.10E-06       7.89675E-08       1.12612E-09       1.12612E-08         308       GRID       544800       4165500       5.48E-04       7.10E-06       7.89675E-08       1.12811E-09       1.12811E-08         65       GRID       545700       4163850       5.43E-04       3.07E-05       8.16923E-08       1.16703E-09       1.13828E-08         328       GRID       545800       4165450       5.52E-04       7.99155E-08       1.13879E-09       1.13879E-08         386       GRID       544850       4165450       5.52E-04       7.98155E-08       1.13819E-09       1.18192E-08									
44GRID54560041638005.32E-042.55E-057.9367E-081.13381E-091.13381E-083GRID54525041637005.39E-041.46E-057.87608E-081.12515E-091.12515E-0822GRID54545041637505.43E-041.27E-057.91309E-081.13044E-091.13044E-08348GRID54490041655005.45E-048.40E-067.88351E-081.12622E-091.12622E-08308GRID54480041654005.48E-047.10E-067.89675E-081.12811E-091.12811E-0865GRID54570041638505.43E-043.07E-058.16923E-081.16703E-091.16703E-08389GRID5450041654005.50E-049.88E-067.96799E-081.13828E-091.13828E-08328GRID54485041654505.52E-047.90E-067.97155E-081.13879E-091.13879E-08386GRID54480041652505.54E-046.35E-067.98114E-081.14016E-091.14016E-0843GRID54470041652505.59E-042.19E-058.2655E-081.18079E-091.18079E-0843GRID5455041638005.59E-042.19E-058.2655E-081.18079E-091.14016E-0843GRID5455041638005.59E-042.19E-058.2655E-081.18079E-091.14016E-0843GRID5455041638005.59E-042.19E-058.2655E-081.18079E-091.14016E-0									
22         GRID         545450         4163750         5.43E-04         1.27E-05         7.91309E-08         1.1304E-09         1.1304E-08           348         GRID         544900         4165500         5.43E-04         8.40E-06         7.88351E-08         1.12622E-09         1.12622E-08           308         GRID         544800         4165400         5.48E-04         7.10E-06         7.89675E-08         1.12811E-09         1.12810E-08           65         GRID         545700         4163850         5.43E-04         3.07E-05         8.16923E-08         1.16703E-09         1.12810E-08           389         GRID         54550         4165600         5.0E-04         9.88E-06         7.96799E-08         1.13828E-09         1.13828E-08           328         GRID         545800         4165450         5.52E-04         7.90E-06         7.97155E-08         1.13879E-09         1.1827E-08           328         GRID         545800         4165450         5.52E-04         3.00E-05         8.27344E-08         1.18192E-09         1.1827E-08           349         GRID         545800         4165250         5.54E-04         6.35E-06         7.98114E-08         1.14016E-09         1.14016E-08           249         GRID									
348       GRID       544900       4165500       5.45E-04       8.40E-06       7.88351E-08       1.12622E-09       1.12622E-08         308       GRID       544800       4165400       5.48E-04       7.10E-06       7.89675E-08       1.12811E-09       1.12622E-08         65       GRID       545700       4163850       5.43E-04       3.07E-05       8.16923E-08       1.16703E-09       1.12828E-08         389       GRID       545050       4165450       5.50E-04       9.88E-06       7.96799E-08       1.13828E-09       1.13828E-08         328       GRID       544850       4165450       5.52E-04       7.90E-06       7.97155E-08       1.13879E-09       1.13879E-08         86       GRID       544850       4165450       5.52E-04       7.90E-06       7.98114E-08       1.14016E-09       1.14016E-08         249       GRID       544800       4165250       5.54E-04       6.35E-06       7.98114E-08       1.14016E-09       1.14016E-08         43       GRID       54550       4163800       5.59E-04       2.19E-05       8.2655E-08       1.18079E-09       1.18079E-08         43       GRID       54500       4165850       5.68E-04       9.52E-06       8.21648E-08       1.17378									1.12515E-08
308       GRID       544800       4165400       5.48E-04       7.10E-06       7.89675E-08       1.12811E-09       1.12811E-08         65       GRID       545700       4163850       5.43E-04       3.07E-05       8.16923E-08       1.16703E-09       1.16703E-08         389       GRID       54500       5.50E-04       9.88E-06       7.96799E-08       1.13828E-09       1.13828E-08         328       GRID       544850       4165450       5.52E-04       7.90E-06       7.97155E-08       1.13879E-09       1.13879E-08         86       GRID       544850       4165250       5.43E-04       3.80E-05       8.27344E-08       1.18192E-09       1.18192E-08         43       GRID       54550       4163800       5.59E-04       2.19E-05       8.2655E-08       1.18079E-09       1.14016E-08         43       GRID       54550       5.68E-04       9.52E-06       8.21648E-08       1.17378E-09       1.17378E-08         369       GRID       54500       4165750       5.68E-04       9.52E-06       8.21648E-08       1.17378E-09       1.17378E-08									
65         GRID         545700         4163850         5.43E-04         3.07E-05         8.16923E-08         1.16703E-09         1.16703E-08           389         GRID         545050         4165600         5.50E-04         9.88E-06         7.96799E-08         1.13828E-09         1.13828E-08           328         GRID         544850         4165450         5.52E-04         7.90E-06         7.97155E-08         1.13879E-09         1.13879E-08           86         GRID         545800         4163900         5.43E-04         3.80E-05         8.27344E-08         1.18192E-09         1.18192E-08           249         GRID         54550         5.54E-04         6.35E-06         7.98114E-08         1.14016E-09         1.14016E-08           43         GRID         545550         4163800         5.59E-04         2.19E-05         8.2655E-08         1.18079E-09         1.18079E-08           369         GRID         54500         4165250         5.68E-04         9.52E-06         8.21648E-08         1.17378E-09         1.17378E-08									
389         GRID         545050         4165600         5.0E-04         9.88E-06         7.96799E-08         1.13828E-09         1.13828E-08           328         GRID         544850         4165450         5.52E-04         7.90E-06         7.97155E-08         1.13879E-09         1.13879E-08           86         GRID         545800         4163900         5.43E-04         3.00E-05         8.27344E-08         1.18192E-09         1.18192E-08           249         GRID         54550         5.54E-04         6.35E-06         7.98114E-08         1.14016E-09         1.14016E-08           43         GRID         545550         4163800         5.59E-04         2.19E-05         8.265E-08         1.18079E-09         1.18079E-08           369         GRID         54500         4165250         5.68E-04         9.52E-06         8.21648E-08         1.17378E-09         1.17378E-08			545700						
328         GRID         544850         4165450         5.52E-04         7.90E-06         7.97155E-08         1.13879E-09         1.13879E-08           86         GRID         545800         4163900         5.43E-04         3.80E-05         8.27344E-08         1.18192E-09         1.18192E-08           249         GRID         544700         4165250         5.54E-04         6.35E-06         7.98114E-08         1.14016E-09         1.14016E-08           43         GRID         545550         4163800         5.59E-04         2.19E-05         8.2655E-08         1.18079E-09         1.18079E-08           369         GRID         545000         4165550         5.68E-04         9.52E-06         8.21648E-08         1.17378E-09         1.18079E-08						9.88E-06	7.96799E-08	1.13828E-09	
249         GRID         544700         4165250         5.54E-04         6.35E-06         7.98114E-08         1.14016E-09         1.14016E-08           43         GRID         545550         4163800         5.59E-04         2.19E-05         8.2655E-08         1.18079E-09         1.18079E-08           369         GRID         54500         4165550         5.68E-04         9.52E-06         8.21648E-08         1.17378E-09         1.17378E-08									
43         GRID         545550         4163800         5.59E-04         2.19E-05         8.2655E-08         1.18079E-09         1.18079E-08           369         GRID         54500         4165550         5.68E-04         9.52E-06         8.21648E-08         1.17378E-09         1.17378E-08									
369 GRID 545000 4165550 5.68E-04 9.52E-06 8.21648E-08 1.17378E-09 1.17378E-08									
	369	GRID	545000	4165550	5.68E-04				
	21	GRID	545400	4163750	5.70E-04	1.41E-05	8.31346E-08	1.18764E-09	

	Annual (µg/m3)										
Receptor	Туре	UTME	UTMN	DPM GLC from construction	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk			
64	GRID	545650	4163850	5.68E-04	3.18E-05	(70 Yr Exposure) 8.53414E-08	(1 Yr Exposure) 1.21916E-09	(1 Yr Exposure adjusted by ASF) 1.21916E-08			
85	GRID	545750	4163900	5.70E-04	3.89E-05	8.66627E-08	1.23804E-09	1.23804E-08			
390 269	GRID GRID	545100 544750	4165600 4165300	5.81E-04 5.85E-04	1.09E-05 6.56E-06	8.42671E-08 8.42781E-08	1.20382E-09 1.20397E-09	1.20382E-08			
349	GRID	544950	4165500	5.85E-04	9.17E-06	8.46498E-08	1.20928E-09	1.20397E-08 1.20928E-08			
42	GRID	545500	4163800	5.88E-04	1.81E-05	8.62348E-08	1.23193E-09	1.23193E-08			
20 329	GRID GRID	545350 544900	4163750 4165450	5.99E-04 5.99E-04	1.64E-05 8.82E-06	8.75807E-08	1.25115E-09	1.25115E-08			
63	GRID	545600	4163850	5.97E-04	3.28E-05	8.65009E-08 8.95991E-08	1.23573E-09 1.27999E-09	1.23573E-08 1.27999E-08			
289	GRID	544800	4165350	6.03E-04	7.28E-06	8.69163E-08	1.24166E-09	1.24166E-08			
370 309	GRID GRID	545050 544850	4165550 4165400	6.03E-04	1.05E-05	8.73733E-08	1.24819E-09	1.24819E-08			
84	GRID	544650 545700	4163900	6.08E-04 5.99E-04	8.20E-06 3.96E-05	8.76806E-08 9.08828E-08	1.25258E-09 1.29833E-09	1.25258E-08 1.29833E-08			
230	GRID	544700	4165200	6.12E-04	6.87E-06	8.81248E-08	1.25893E-09	1.25893E-08			
391	GRID	545150	4165600	6.14E-04	1.21E-05	8.91838E-08	1.27405E-09	1.27405E-08			
41 350	GRID GRID	545450 545000	4163800 4165500	6.19E-04 6.25E-04	1.58E-05 1.01E-05	9.03449E-08 9.04795E-08	1.29064E-09 1.29256E-09	1.29064E-08			
19	GRID	545300	4163750	6.25E-04	1.69E-05	9.14588E-08	1.30655E-09	1.29256E-08 1.30655E-08			
62	GRID	545550	4163850	6.28E-04	3.00E-05	9.36339E-08	1.33763E-09	1.33763E-08			
83 371	grid Grid	545650 545100	4163900 4165550	6.32E-04 6.39E-04	4.06E-05 1.16E-05	9.57744E-08	1.36821E-09	1.36821E-08			
250	GRID	544750	4165250	6.48E-04	6.89E-06	9.26069E-08 9.31977E-08	1.32296E-09 1.3314E-09	1.32296E-08 1.3314E-08			
330	GRID	544950	4165450	6.45E-04	9.79E-06	9.32939E-08	1.33277E-09	1.33277E-08			
392	GRID	545200	4165600	6.45E-04	1.32E-05	9.37836E-08	1.33977E-09	1.33977E-08			
18 40	grid Grid	545250 545400	4163750 4163800	6.50E-04 6.54E-04	1.72E-05 1.76E-05	9.49823E-08	1.35689E-09	1.35689E-08			
310	GRID	544900	4165400	6.63E-04	9.35E-06	9.56789E-08 9.57663E-08	1.36684E-09 1.36809E-09	1.36684E-08 1.36809E-08			
351	GRID	545050	4165500	6.66E-04	1.12E-05	9.63469E-08	1.37638E-09	1.37638E-08			
61	GRID	545500	4163850	6.63E-04	2.41E-05	9.78631E-08	1.39804E-09	1.39804E-08			
270 17	GRID GRID	544800 545200	4165300 4163750	6.70E-04 6.70E-04	7.50E-06 1.74E-05	9.64533E-08 9.78595E-08	1.3779E-09	1.3779E-08			
290	GRID	544850	4165350	6.74E-04	8.49E-06	9.7229E-08	1.39799E-09 1.38899E-09	1.39799E-08 1.38899E-08			
82	GRID	545600	4163900	6.68E-04	4.22E-05	1.01083E-07	1.44405E-09	1.44405E-08			
372 211	GRID GRID	545150 544700	4165550	6.77E-04	1.29E-05	9.81699E-08	1.40243E-09	1.40243E-08			
393	GRID	545250	4165150 4165600	6.81E-04 6.79E-04	7.54E-06 1.44E-05	9.80441E-08 9.87002E-08	1.40063E-09 1.41E-09	1.40063E-08 1.41E-08			
16	GRID	545150	4163750	6.86E-04	1.69E-05	1.00015E-07	1.42879E-09	1.42879E-08			
331	GRID	545000	4165450	6.92E-04	1.08E-05	1.00087E-07	1.42981E-09	1.42981E-08			
39 15	grid Grid	545350 545100	4163800 4163750	6.94E-04 6.97E-04	2.04E-05 1.65E-05	1.01772E-07	1.45389E-09	1.45389E-08			
12	GRID	544950	4163750	7.01E-04	1.77E-05	1.01537E-07 1.02346E-07	1.45053E-09 1.46209E-09	1.45053E-08 1.46209E-08			
14	GRID	545050	4163750	7.03E-04	1.66E-05	1.025E-07	1.46429E-09	1.46429E-08			
60	GRID	545450	4163850	7.03E-04	2.02E-05	1.03015E-07	1.47164E-09	1.47164E-08			
13 352	grid Grid	545000 545100	4163750 4165500	7.08E-04 7.08E-04	1.71E-05 1.24E-05	1.03209E-07 1.02544E-07	1.47442E-09	1.47442E-08			
394	GRID	545300	4165600	7.08E-04	1.55E-05	1.02983E-07	1.46491E-09 1.47119E-09	1.46491E-08 1.47119E-08			
373	GRID	545200	4165550	7.14E-04	1.41E-05	1.03733E-07	1.4819E-09	1.4819E-08			
81 311	GRID GRID	545550 544950	4163900 4165400	7.06E-04	4.22E-05	1.06471E-07	1.52101E-09	1.52101E-08			
231	GRID	544950	4165200	7.19E-04 7.23E-04	1.04E-05 7.34E-06	1.03839E-07 1.04036E-07	1.48342E-09 1.48623E-09	1.48342E-08 1.48623E-08			
395	GRID	545350	4165600	7.32E-04	1.67E-05	1.06632E-07	1.52332E-09	1.52332E-08			
38	GRID	545300	4163800	7.37E-04	2.05E-05	1.07818E-07	1.54026E-09	1.54026E-08			
291 332	grid grid	544900 545050	4165350 4165450	7.41E-04 7.41E-04	9.79E-06 1.19E-05	1.0692E-07 1.07222E-07	1.52744E-09	1.52744E-08			
251	GRID	544800	4165250	7.50E-04	7.77E-06	1.07901E-07	1.53174E-09 1.54144E-09	1.53174E-08 1.54144E-08			
374	GRID	545250	4165550	7.48E-04	1.54E-05	1.08675E-07	1.5525E-09	1.5525E-08			
353 59	GRID GRID	545150 545400	4165500 4163850	7.50E-04	1.38E-05 2.28E-05	1.08753E-07	1.55362E-09	1.55362E-08			
271	GRID	544850	4165300	7.50E-04 7.55€-04	8.78E-05	1.10046E-07 1.08679E-07	1.57209E-09 1.55255E-09	1.57209E-08 1.55255E-08			
396	GRID	545400	4165600	7.52E-04	1.77E-05	1.09635E-07	1.56621E-09	1.56621E-08			
80	GRID	545500	4163900	7.50E-04	3.43E-05	1.11678E-07	1.59541E-09	1.59541E-08			
193 397	GRID GRID	544700 545450	4165100 4165600	7.66E-04 7.66E-04	8.39E-06 1.88E-05	1.10207E-07	1.57438E-09	1.57438E-08			
312	GRID	545000	4165400	7.75E-04	1.15E-05	1.11687E-07 1.11912E-07	1.59553E-09 1.59875E-09	1.59553E-08 1.59875E-08			
398	GRID	545500	4165600	7.70E-04	1.98E-05	1.12471E-07	1.60674E-09	1.60674E-08			
399	GRID	545550	4165600	7.70E-04	2.08E-05	1.1261E-07	1.60871E-09	1.60871E-08			
375 37	grid Grid	545300 545250	4165550 4163800	7.79E-04 7.79E-04	1.68E-05 2.09E-05	1.133E-07 1.1389E-07	1.61857E-09 1.627E-09	1.61857E-08			
	GRID	545100	4165450	7.90E-04	1.33E-05	1.14394E-07	1.63421E-09	1.627E-08 1.63421E-08			
354	GRID	545200	4165500	7.92E-04	1.52E-05	1.14975E-07	1.6425E-09	1.6425E-08			
	grid Grid	545450 545550	4163900	8.01E-04	2.73E-05	1.17963E-07	1.68518E-09	1.68518E-08			
	GRID	545550 544950	4163950 4165350	7.90E-04 8.06E-04	5.96E-05 1.10E-05	1.20986E-07 1.16286E-07	1.72837E-09 1.66123E-09	1.72837E-08 1.66123E-08			
	GRID	545350	4165550	8.04E-04	1.80E-05	1.16961E-07	1.67088E-09	1.67088E-08			
								-			

				Annuai (	ua/m3)			
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk
58	GRID	645350	4462960	from construction		(70 Yr Exposure)	(1 Yr Exposure)	(1 Yr Exposure adjusted by ASF)
212	GRID	545350 544750	4163850 4165150	8.04E-04 8.17E-04	2.58E-05 7.95E-06	1.18066E-07 1.17433E-07	1.68666E-09 1.67761E-09	1.68666E-08 1.67761E-08
36	GRID	545200	4163800	8.21E-04	2.07E-05	1.19886E-07	1.71265E-09	1.71265E-08
377	GRID	545400	4165550	8.21E-04	1.92E-05	1.19672E-07	1.7096E-09	1.7096E-08
380 313	GRID GRID	545550	4165550	8.24E-04	2.28E-05	1.20491E-07	1.7213E-09	1.7213E-08
355	GRID	545050 545250	4165400 4165500	8.30E-04 8.28E-04	1.28E-05 1.67E-05	1.20023E-07 1.20259E-07	1.71462E-09 1.71798E-09	1.71462E-08
378	GRID	545450	4165550	8.30E-04	2.04E-05	1.21103E-07	1.73004E-09	1.71798E-08 1.73004E-08
379	GRID	545500	4165550	8.30E-04	2.16E-05	1.21279E-07	1.73255E-09	1.73255E-08
272 334	GRID GRID	544900 545150	4165300 4165450	8.35E-04	1.02E-05	1.20293E-07	1.71847E-09	1.71847E-08
232	GRID	544800	4165200	8.39E-04 8.48E-04	1.48E-05 8.14E-06	1.2158E-07 1.21897E-07	1.73685E-09 1.74138E-09	1.73685E-08 1.74138E-08
252	GRID	544850	4165250	8.53E-04	9.08E-06	1.22665E-07	1.75236E-09	1.75236E-08
99	GRID	545500	4163950	8.46E-04	5.37E-05	1.28067E-07	1.82953E-09	1.82953E-08
356 35	GRID GRID	545300 545150	4165500 4163800	8.59E-04 8.59E-04	1.82E-05 2.02E-05	1.24909E-07	1.78441E-09	1.78441E-08
78	GRID	545400	4163900	8.59E-04	3.08E-05	1.25198E-07 1.26704E-07	1.78854E-09 1.81006E-09	1.78854E-08 1.81006E-08
175	GRID	544700	4165050	8.66E-04	9.44E-06	1.24617E-07	1.78024E-09	1.78024E-08
57	GRID	545300	4163850	8.64E-04	2.57E-05	1.2661E-07	1.80871E-09	1.80871E-08
293 361	GRID GRID	545000 545550	4165350 4165500	8.73E-04 8.79E-04	1.23E-05 2.49E-05	1.25982E-07	1.79974E-09	1.79974E-08
335	GRID	545200	4165450	8.84E-04	1.64E-05	1.28715E-07 1.28144E-07	1.83879E-09 1.83062E-09	1.83879E-08 1.83062E-08
357	GRID	545350	4165500	8.81E-04	1.96E-05	1.28279E-07	1.83255E-09	1.83255E-08
314	GRID	545100	4165400	8.88E-04	1.43E-05	1.28476E-07	1.83537E-09	1.83537E-08
360 358	GRID GRID	545500 545400	4165500 4165500	8.93E-04 8.95E-04	2.35E-05 2.09E-05	1.30428E-07 1.30368E-07	1.86326E-09	1.86326E-08
34	GRID	545100	4163800	8.97E-04	2.01E-05	1.30572E-07	1.86241E-09 1.86532E-09	1.86241E-08 1.86532E-08
655	GRID	544600	4164900	8.99E-04	1.62E-05	1.30337E-07	1.86195E-09	1.86195E-08
359	GRID	545450	4165500	8.99E-04	2.23E-05	1.31203E-07	1.87433E-09	1.87433E-08
273 98	GRID GRID	544950 545450	4165300 4163950	9.13E-04 9.08E-04	1.18E-05 3.93E-05	1.3161E-07	1.88015E-09	1.88015E-08
336	GRID	545250	4165450	9.22E-04	1.81E-05	1.34894E-07 1.33769E-07	1.92706E-09 1.91099E-09	1.92706E-08 1.91099E-08
194	GRID	544750	4165100	9.30E-04	8.75E-06	1.33709E-07	1.91012E-09	1.91012E-08
56 77	GRID	545250	4163850	9.28E-04	2.59E-05	1.35838E-07	1.94054E-09	1.94054E-08
77 33	grid Grid	545350 545050	4163900 4163800	9.26E-04 9.33E-04	3.35E-05 2.06E-05	1.366E-07 1.35718E-07	1.95143E-09	1.95143E-08
294	GRID	545050	4165350	9.39E-04	1.38E-05	1.35689E-07	1.93883E-09 1.93842E-09	1.93883E-08 1.93842E-08
342	GRID	545550	4165450	9.37E-04	2.73E-05	1.37306E-07	1.96151E-09	1.96151E-08
315 253	grid Grid	545150 544900	4165400 4165250	9.42E-04	1.61E-05	1.36333E-07	1.94761E-09	1.94761E-08
337	GRID	545300	4165250	9.50E-04 9.50E-04	1.08E-05 1.98E-05	1.36847E-07 1.38128E-07	1.95496E-09 1.97325E-09	1.95496E-08 1.97325E-08
341	GRID	545500	4165450	9.59E-04	2.59E-05	1.40274E-07	2.00392E-09	2.00392E-08
213	GRID	544800	4165150	9.68E-04	8.67E-06	1.39085E-07	1.98692E-09	1.98692E-08
32 233	g <b>r</b> id grid	545000 544850	4163800 4165200	9.66E-04 9.73E-04	2.16E-05 9.44E-06	1.4061E-07	2.00871E-09	2.00871E-08
338	GRID	545350	4165450	9.70E-04	2.13E-05	1.39828E-07 1.41206E-07	1.99754E-09 2.01722E-09	1.99754E-08 2.01722E-08
340	GRID	545450	4165450	9.73E-04	2.44E-05	1.41962E-07	2.02803E-09	2.02803E-08
339	GRID	545400	4165450	9.77E-04	2.29E-05	1.42382E-07	2.03403E-09	2.03403E-08
157 97	grid Grid	544700 545400	4165000 4163950	9.88E-04 9.79E-04	1.09E-05 4.41E-05	1.42259E-07	2.03228E-09	2.03228E-08
274	GRID	545000	4165300	9.93E-04	1.32E-05	1.45713E-07 1.4322E-07	2.08161E-09 2.04599E-09	2.08161E-08 2.04599E-08
316	GRID	545200	4165400	9.91E-04	1.78E-05	1.43556E-07	2.05079E-09	2.05079E-08
31	GRID	544950	4163800	9.97E-04	2.27E-05	1.45197E-07	2.07424E-09	2.07424E-08
29 55	GRID	544850 545200	4163800 4163850	9.99E-04 9.99E-04	2.35E-05 2.56E-05	1.45639E-07 1.45928E-07	2.08056E-09 2.08469E-09	2.08056E-08
	GRID	545550	4165400	9.97E-04	3.02E-05	1.46277E-07	2.08967E-09	2.08469E-08 2.08967E-08
	GRID	545100	4165350	1.01E-03	1.54E-05	1.45435E-07	2.07764E-09	2.07764E-08
	GRID	545300	4163900	1.01E-03	3.33E-05	1.47984E-07	2.11405E-09	2.11405E-08
	grid Grid	544900 545250	4163800 4165400	1.01E-03 1.03E-03	2.34E-05 1.97E-05	1.47516E-07 1.49206E-07	2.10736E-09 2.13152E-09	2.10736E-08
	GRID	545500	4165400	1.03E-03	2.87E-05	1.50487E-07	2.14982E-09	2.13152E-08 2.14982E-08
	GRID	544950	4165250	1.05E-03	1.25E-05	1.50725E-07	2.15321E-09	2.15321E-08
	GRID	545450	4165400	1.05E-03	2.70E-05	1.53418E-07	2.19168E-09	2.19168E-08
	grid Grid	545300 545150	4165400 4165350	1.06E-03 1.07E-03	2.16E-05 1.74E-05	1.53285E-07 1.54267E-07	2.18979E-09 2.20382E-09	2.18979E-08
	GRID	545550	4165350	1.06E-03	3.36E-05	1.55944E-07	2.20382E-09 2.22777E-09	2.20382E-08 2.22777E-08
	GRID	545350	4165400	1.07E-03	2.35E-05	1.55134E-07	2.21619E-09	2.21619E-08
	GRID GRID	545400	4165400	1.07E-03	2.52E-05	1.55385E-07	2.21978E-09	2.21978E-08
	GRID	544650 545050	4164900 4165300	1.07E-03 1.07E-03	1.59E-05 1.49E-05	1.54371E-07 1.54866E-07	2.2053E-09 2.21238E-09	2.2053E-08
	GRID	544750	4165050	1.08E-03	9.79E-06	1.54455E-07	2.2065E-09	2.21238E-08 2.2065E-08
	GRID	545350	4163950	1.07E-03	4.59E-05	1.58323E-07	2.26175E-09	2.26175E-08
		545150	4163850	1.08E-03	2.54E-05	1.56677E-07	2.23825E-09	2.23825E-08
234	GRID	544900	4165200	1.09E-03	1.13E-05	1.57204E-07	2.24577E-09	2.24577E-08

	Annuai (µg/m3)										
Receptor	Туре	UTME	UTMN	DPM GLC from construction	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk			
75	GRID	545250	4163900	1.10E-03	3.34E-05	(70 Yr Exposure) 1.60989E-07	(1 Yr Exposure) 2.29984E-09	(1 Yr Exposure adjusted by ASF) 2.29984E-08			
303	GRID	545500	4165350	1.10E-03	3.18E-05	1.61397E-07	2.30567E-09	2.30567E-08			
297	GRID	545200	4165350	1.12E-03	1.94E-05	1.61845E-07	2.31207E-09	2.31207E-08			
195 214	GRID GRID	544800 544850	4165100 4165150	1.12E-03 1.13E-03	9.35E-06 9.97E-06	1.61364E-07	2.3052E-09	2.3052E-08			
489	GRID	545400	4164000	1.11E-03	6.95E-05	1.61769E-07 1.68342E-07	2.31098E-09 2.40489E-09	2.31098E-08 2.40489E-08			
285	GRID	545550	4165300	1.13E-03	3.75E-05	1.65686E-07	2.36694E-09	2.36694E-08			
139	GRID	544700	4164950	1.14E-03	1.29E-05	1.64401E-07	2.34859E-09	2.34859E-08			
302 255	GRID GRID	545450 545000	4165350 4165250	1.14E-03	2.99E-05	1.65874E-07	2.36963E-09	2.36963E-08			
276	GRID	545100	4165300	1.14E-03 1.15E-03	1.44E-05 1.68E-05	1.64615E-07 1.65905E-07	2.35164E-09 2.37007E-09	2.35164E-08			
298	GRID	545250	4165350	1.15E-03	2.16E-05	1.67229E-07	2.38898E-09	2.37007E-08 2.38898E-08			
642	GRID	544600	4164850	1.16E-03	1.92E-05	1.67207E-07	2.38867E-09	2.38867E-08			
53 301	GRID	545100	4163850	1.16E-03	2.60E-05	1.6849E-07	2.40701E-09	2.40701E-08			
299	GRID GRID	545400 545300	4165350 4165350	1.16E-03 1.17E-03	2.80E-05 2.37E-05	1.69084E-07 1.70065E-07	2.41548E-09	2.41548E-08			
95	GRID	545300	4163950	1.17E-03	4.56E-05	1.72545E-07	2.42951E-09 2.46493E-09	2.42951E-08 2.46493E-08			
300	GRID	545350	4165350	1.17E-03	2.58E-05	1.70684E-07	2.43834E-09	2.43834E-08			
284	GRID	545500	4165300	1.18E-03	3.55E-05	1.72699E-07	2.46712E-09	2.46712E-08			
266 74	grid Grid	545550 545200	4165250	1.20E-03	4.21E-05	1.7648E-07	2.52114E-09	2.52114E-08			
235	GRID	544950	4163900 4165200	1.20E-03 1.21E-03	3.37E-05 1.34E-05	1.76238E-07 1.74617E-07	2.51768E-09 2.49454E-09	2.51768E-08			
277	GRID	545150	4165300	1.22E-03	1.90E-05	1.75725E-07	2.51036E-09	2.49454E-08 2.51036E-08			
283	GRID	545450	4165300	1.22E-03	3.34E-05	1.79052E-07	2.55789E-09	2.55789E-08			
488	GRID	545350	4164000	1.22E-03	6.90E-05	1.83161E-07	2.61659E-09	2.61659E-08			
256 52	grid Grid	545050 545050	4165250 4163850	1.24E-03	1.62E-05	1.78505E-07	2.55007E-09	2.55007E-08			
158	GRID	544750	4165000	1.24E-03 1.26E-03	2.73E-05 1.11E-05	1.81025E-07 1.81263E-07	2.58608E-09 2.58947E-09	2.58608E-08			
265	GRID	545500	4165250	1.26E-03	3.99E-05	1.84735E-07	2.63907E-09	2.58947E-08 2.63907E-08			
278	GRID	545200	4165300	1.26E-03	2.13E-05	1.83036E-07	2.6148E-09	2.6148E-08			
282	GRID	545400	4165300	1.26E-03	3.11E-05	1.84113E-07	2.63018E-09	2.63018E-08			
215 247	grid Grid	544900 545550	4165150 4165200	1.28E-03 1.27E-03	1.18E-05	1.83898E-07	2.62712E-09	2.62712E-08			
279	GRID	545250	4165300	1.29E-03	4.74E-05 2.38E-05	1.88008E-07 1.87507E-07	2.68582E-09 2.67868E-09	2.68582E-08 2.67868E-08			
281	GRID	545350	4165300	1.29E-03	2.87E-05	1.87577E-07	2.67967E-09	2.67967E-08			
502	GRID	545400	4164050	1.26E-03	1.33E-04	1.98006E-07	2.82865E-09	2.82865E-08			
94 280	grid Grid	545250 545300	4163950	1.29E-03	4.71E-05	1.90188E-07	2.71697E-09	2.71697E-08			
177	GRID	544800	4165300 4165050	1.30E-03 1.32E-03	2.63E-05 1.04E-05	1.8881E-07 1.90035E-07	2.69728E-09 2.71479E-09	2.69728E-08			
196	GRID	544850	4165100	1.32E-03	1.06E-05	1.90061E-07	2.71515E-09	2.71479E-08 2.71515E-08			
257	GRID	545100	4165250	1.32E-03	1.83E-05	1.91165E-07	2.73094E-09	2.73094E-08			
264	GRID	545450	4165250	1.32E-03	3.76E-05	1.92952E-07	2.75646E-09	2.75646E-08			
73 236	grid Grid	545150 545000	4163900 4165200	1.33E-03 1.33E-03	3.47E-05 1.55E-05	1.93805E-07	2.76864E-09	2.76864E-08			
51	GRID	545000	4163850	1.34E-03	2.87E-05	1.92031E-07 1.94219E-07	2.7433E-09 2.77456E-09	2.7433E-08 2.77456E-08			
246	GRID	545500	4165200	1.34E-03	4.52E-05	1.97834E-07	2.82621E-09	2.82621E-08			
127	GRID	544700	4164900	1.36E-03	1.55E-05	1.95517E-07	2.7931E-09	2.7931E-08			
657 487	grid Grid	544700 545300	4164900	1.36E-03	1.55E-05	1.95517E-07	2.7931E-09	2.7931E-08			
228	GRID	545550	4164000 4165150	1.34E-03 1.35E-03	7.23E-05 5.37E-05	2.01702E-07 2.00003E-07	2.88145E-09 2.85719E-09	2.88145E-08			
643	GRID	544650	4164850	1.37E-03	1.93E-05	1.97958E-07	2.82798E-09	2.85719E-08 2.82798E-08			
263	GRID	545400	4165250	1.37E-03	3.49E-05	2.00181E-07	2.85972E-09	2.85972E-08			
258	GRID	545150	4165250	1.39E-03	2.08E-05	2.01024E-07	2.87177E-09	2.87177E-08			
262 245	grid grid	545350 545450	4165250 4165200	1.42E-03 1.42E-03	3.22E-05 4.25E-05	2.06129E-07 2.07915E-07	2.94471E-09	2.94471E-08			
501	GRID	545350	4164050	1.38E-03	1.44E-04	2.17576E-07	2.97022E-09 3.10822E-09	2.97022E-08 3.10822E-08			
216	GRID	544950	4165150	1.43E-03	1.43E-05	2.05799E-07	2.93999E-09	2.93999E-08			
259	GRID	545200	4165250	1.44E-03	2.35E-05	2.07751E-07	2.96787E-09	2.96787E-08			
93 50	grid Grid	545200 544950	4163950	1.43E-03	5.01E-05	2.11213E-07	3.01733E-09	3.01733E-08			
237	GRID	545050	4163850 4165200	1.44E-03 1.45E-03	2.97E-05 1.77E-05	2.09581E-07 2.08507E-07	2.99401E-09 2.97867E-09	2.99401E-08 2.97867E-08			
	GRID	545300	4165250	1.44E-03	2.94E-05	2.0953E-07	2.99329E-09	2.99329E-08			
	GRID	545550	4165100	1.43E-03	6.12E-05	2.12795E-07	3.03993E-09	3.03993E-08			
	GRID	545500	4165150	1.44E-03	5.13E-05	2.12023E-07	3.0289E-09	3.0289E-08			
260 72	grid Grid	545250 545100	4165250 4163900	1.45E-03 1.47E-03	2.65E-05 3.62E-05	2.10384E-07	3.00548E-09	3.00548E-08			
	GRID	545400	4165200	1.49E-03	3.95E-05	2.14617E-07 2.17629E-07	3.06596E-09 3.10899E-09	3.06596E-08 3.10899E-08			
	GRID	544750	4164950	1.51E-03	1.30E-05	2.16702E-07	3.09574E-09	3.09574E-08			
		545250	4164000	1.50E-03	8.03E-05	2.2471E-07	3.21014E-09	3.21014E-08			
		544900	4165100	1.52E-03	1.25E-05	2.18858E-07	3.12654E-09	3.12654E-08			
	grid Grid	545550 545450	4165050 4165150	1.52E-03 1.52E-03	7.00E-05 4.84E-05	2.25776E-07 2.23968E-07	3.22537E-09	3.22537E-08			
		545100	4165200	1.54E-03	2.01E-05	2.23966E-07 2.22156E-07	3.19954E-09 3.17365E-09	3.19954E-08 3.17365E-08			
		545500	4165100	1.53E-03	5.87E-05	2.26704E-07	3.23863E-09	3.23863E-08			

Bitecholv         Tyre         UTM         DPM GLC         Charer Risk         Charer Risk         Charer Risk         Charer Risk         Charer Risk           43         GRD         54400         1175-03         3320245-07         322762-03         327762-03         327762-03         327762-03         327762-03         327762-03         327762-03         327762-03         3277762-03         3277762-03 <t< th=""><th></th><th></th><th></th><th></th><th>Annuai (</th><th>µg/m3)</th><th></th><th></th><th></th></t<>					Annuai (	µg/m3)			
243         ORD         54530         446200         1.552-03         3.3256-05         2.2002-07         3.22220-00         3.22200-00           97         ORD         54400         418300         1.375-03         3.22200-00         3.22200-00         3.22200-00           97         ORD         54300         1.44400         418000         1.355-00         3.24462-00         3.24462-00           97         ORD         54300         1.44400         1.155-00         2.28214-07         3.24072-00         3.24726-00         3.24072-00           19         GRD         54400         416500         1.055-05         2.28814-07         3.20727-03         3.2072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.32072-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-00         3.37082-0	Receptor	Туре	UTME	UTMN			Cancer Risk	Cancer Risk	Cancer Risk
44         6RD         54400         418880         1.57E-03         3.222109-C0         2.22109-C0         3.2441E-06         3.2441E-06           500         6600         46000         1.86E-03         1.86E-04         2.24109-E0         3.2441E-06         3.2441E-06           670         54000         416000         1.86E-03         1.82E-04         2.24109-E0         3.2417E-06         3.2477E-06           670         54000         416000         1.86E-03         2.2172-64         2.3077E-06         3.2077E-06         3.2077E-06           620         6700         54000         1.80E-03         2.36628-02         2.3442E-07         3.3083E-06         3.2077E-06         3.2077E-06         3.2077E-06         3.2077E-06         3.2077E-06         3.2077E-06         3.2077E-06         3.2778E-06         3.2778E-0	0.40								(1 Yr Exposure adjusted by ASF)
217         GRD         54500         416510         1.584-03         1.682-04         2.440726-09         3.244182-09         3.26027-04           170         GRD         54430         4160500         1.582-03         1.152-05         2.24727-07         3.25027-09         3.27077-09           280         GRD         54430         4160500         1.582-03         3.20027-09         3.27077-09         3.20027-09         3.20027-09         3.20027-09         3.20027-09         3.20027-09         3.20027-09         3.20027-09         3.200277-09         3.20									
9500         GRD         54300         4164500         115E-03         1262E-04         3.4632E-06         3.4632E-06           118         GRD         54440         416500         1.0E-03         1.17E-06         2.2854E-07         3.2097E-04         3.2697E-04         3.2697E-04           128         GRD         54440         416500         1.0E-03         3.2407E-06         3.2697E-04         3.2697E-08         3.2697E-08         3.2697E-08         3.2697E-08         3.2697E-08         3.2297E-08         3.3237E-08         3.3237E-08         3.3237E-08         3.3237E-08         3.3237E-08         3.3277E-08         3.3798E-08         3.4498E-08									
178       GRD       54480       416500       1.05E-03       1.17E-03       2.2802E-07       3.2807E-09       3.2807E-08         580       GRD       54480       416480       1.05E-03       2.275E-05       3.207E-09       3.2807E-09         580       GRD       54480       416480       1.05E-03       2.275E-05       3.327E-09       3.2807E-09         581       64580       1.05E-03       3.05E-05       2.355E-07       3.3208E-08       3.4087E-08       3.3608E-09         647       64590       1.05E-03       8.06E-03       2.365E-07       3.3738E-08       3.3738E-08       3.3738E-08       3.3738E-08       3.3738E-08       3.3738E-08       3.3738E-08       3.3738E-08       3.40055E-09       3.44065E-08       3.44055E-08									
199         GHD         54400         416500         105-03         2.20756-09         3.20776-09         3.20776-09           280         GHD         54510         1165-03         2.2075-05         3.305336-09         3.305337-09         3.305337-09           280         GHD         54510         415520         1160-03         2.2075-05         2.305337-09         3.306337-09           281         GHD         54550         415000         1161-03         5200-05         2.38618-07         3.37826-09         3.37826-09         3.37826-09         3.37826-09         3.37826-09         3.37826-09         3.37826-09         3.37836-09         3.37866-08         3.37166-08         3.37166-08         3.37166-08         3.37166-08         3.37166-08         3.37166-08         3.37166-08         3.3456-09         3.3466-08         3.3316-09         3.3466-08         3.3316-09         3.3466-08         3.351666-08         3.35166-08									
B28         GRID         54400         1198-03         2.207-65         2.30752-07         3.20752-04         3.20752-04         3.20752-04         3.20752-04         3.20752-04         3.20752-04         3.20275-04         3.273815-02         3.273815-04		GRID	544800						
242         GRID         54530         145220         150E-03         332207E-06         332207E-06           92         GRID         54550         145050         161E-03         5.24650E-07         337862E-09         337862E-09           92         GRID         54550         145050         161E-03         5.24650E-07         337381E-04         337381E-04           94         GRID         54550         1450500         165E-03         2.2575E-07         337381E-04         337381E-04           91         GRID         54550         1450500         165E-03         2.4775E-07         337338E-04         337381E-04           91         GRID         54560         145500         155E-03         2.4775E-07         3.37781E-04         3.44966E-08           71         GRID         54560         145500         1.77E-03         2.4775E-07         3.5803E-04         3.5803E-08           9450         445120         1.57E-03         3.5802E-03         3.5803E-04         3.5804E-06           9450         445120         1.57E-03         3.5802E-07         3.5804E-08         3.5604E-08           9450         445120         1.57E-03         3.5804E-06         2.57446E-07         3.5777E-08         3.5604E-08							2.30125E-07		
174         GRD         54555         415500         150E-03         500E-05         2369E-07         3409E-09         3409E-09           25         GRD         54540         415510         181E-03         4.51E-05         2.350E-07         3739E-09         3.378E-09           24         GRD         54540         415510         1.81E-03         2.35E-07         3.3738E-09         3.3738E-09           24         GRD         54550         415500         1.85E-03         2.35E-07         3.3738E-09         3.3738E-09           28         GRD         54550         415500         1.85E-03         3.77E-05         2.42147E-07         3.4087E-08         3.4097E-08           71         GRD         54550         415500         1.85E-03         3.77E-05         2.42162E-07         3.4338E-09         3.538E-08           216         GRD         54550         415500         1.77E-03         3.538E-07         3.5388E-09         3.538E-08           216         GRD         54550         415500         1.77E-03         3.538E-04         2.54784E-07         3.5388E-09         3.5388E-08           216         GRD         54550         415500         1.77E-03         1.59E-05         2.4779E-07         3									3.30633E-08
92         GRID         54/518         415/860         16/E-03         5.27692E-09         3.27892E-09           240         GRID         54/200         16/E-03         2.3731E-09         3.3716E-06           241         GRID         54/200         1.6/E-03         2.3617EE-07         3.3736E-09         3.3716E-06           241         GRID         54/200         1.6/E-03         2.3617EE-07         3.3736E-09         3.4606E-08           241         GRID         54/500         1.6/E-03         2.3672E-07         3.417E-04         3.4606E-08           241         GRID         54/500         1.6/E-03         9.33E-05         2.20682E-07         3.56003E-00         3.56003E-08           241         GRID         54/500         1.6/E-03         9.33E-05         2.20682E-07         3.56008E-00         3.56008E-08           241         GRID         54/500         1.7/E-03         9.35E-05         2.47781E-07         3.56008E-00         3.56068E-08           241         GRID         54/500         1.1/E-03         3.35E-06         3.577E-08         3.5677E-09         3.5677E-09         3.5677E-08         3.5677E-08         3.5777E-08         3.5777E-08         3.5777E-08         3.5777E-08         3.5777E-08         3									
225         GRID         64540         415510         151E-03         3.7731E-03         3.7731E-03           241         GRID         54520         415200         1.58E-03         2.261E-07         3.7731E-03         3.7733E-03           110         GRID         54520         1.58E-03         2.261E-07         3.406E-03         3.3733E-03           126         GRID         54550         415300         1.58E-03         2.77E-05         2.4212E-07         3.406E-03         3.4117E-04           126         GRID         54550         416300         1.58E-03         3.77E-05         2.40132E-07         3.406E-03         3.4117E-04         3.4117E-04           126         GRID         54550         416400         1.58E-03         3.538E-06         2.5769E-71         3.5908E-09         3.588E-08           244         GRID         54550         416400         1.58E-03         2.5717E-07         3.5338E-08         3.578E-08         3.									
240         GRID         54220         145200         1.83E-03         2.927-65         2.3079E-07         3.3798E-09         3.3798E-09         3.3798E-09           111         GRID         54520         1.68E-03         6.77E-65         2.42245E-07         3.4608E-09         3.4608E-08           121         GRID         54450         1.68E-03         5.68E-05         2.4449E-07         3.4409E-09         3.4498E-08           126         GRID         54520         1.68E-03         3.38E-05         2.2085E-07         3.538E-09         3.538E-09           242         GRID         54530         416510         1.77E-03         3.35E-06         2.51781E-07         3.5368E-09         3.5988E-09           128         GRID         54500         4165100         1.77E-03         1.35E-06         2.4713E-07         3.5048E-09         3.5048E-08           128         GRID         54400         1.56E-03         5.6446-07         3.5048E-00         3.5048E-08         3									
241         GRND         54520         4165200         1.58E-03         2.98E-65         2.38175E-07         3.3738E-08         3.4606E-08           218         GRND         54560         416500         1.68E-03         5.56E-05         2.41476E-07         3.4406E-08         3.4406E-08           75         GRND         54550         415500         1.68E-03         5.56E-05         2.41476E-07         3.538E-00         3.620E-08           75         GRND         54520         416000         1.68E-03         5.56E-05         2.41476E-07         3.5334E-00         3.5034E-00           456         GRND         54520         414600         1.68E-05         2.41476E-07         3.5334E-00         3.504EE-08         3.504E-08         3.504E-08         3.504E-08         3.504E-08         3.504E-08         3.504E									
208         GRID         54450         4165100         1.64E-03         5.6E-05         2.447E-07         3.4496E-08         3.431TE-09         3.431TE-09           156         GRID         54550         41550         1.7E-03         3.7E-03         2.5065E-07         3.5033E-09         3.5338E-08           224         GRID         54530         416150         1.7E-03         4.342         2.5178E-07         3.5666E-09         3.5988E-08           458         GRID         54530         416150         1.7E-03         4.526-05         2.5178E-07         3.5666E-09         3.5988E-08           644         GRID         54530         4161100         1.5E-03         5.326-04         2.5178E-07         3.5278E-09         3.5472E-08           644         GRID         54530         416100         1.7E-03         5.262-04         2.94848E-07         3.6772E-08         3.67737E-08         3.67737E-08         3.67737E-08         3.67737E-08         3.666377E-09         3.67737E-08         3.666377E-09         3.67737E-08         3.666377E-09         3.779326-08         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03         3.78908E-03 <t< td=""><td></td><td></td><td></td><td></td><td>1.63E-03</td><td></td><td></td><td></td><td></td></t<>					1.63E-03				
71         GRD         54550         416520         3.77E-05         2.0182E-07         3.4317E-08           224         GRD         54550         416450         1.87E-03         9.35685         2.6085E-07         3.5382E-08           246         GRD         54535         416450         1.87E-03         8.35E-05         2.47681E-07         3.5384E-08         3.5504E-08           246         GRD         54520         416450         1.77E-03         1.98E-05         2.47612E-07         3.5604E-09         3.5104E-08           246         GRD         54520         416450         1.77E-03         1.98E-05         2.47612E-07         3.5704E-09         3.5104E-08           544         GRD         54550         416500         1.77E-03         7.88E-05         2.57448E-07         3.68377E-08         3.6777E-08         3.67777E-08         3.67777E-08         3.6777E-08<							2.42245E-07	3.46065E-09	3.46065E-08
156       GRID       54550       4164800       1.67E-03       9.35E-05       2.0065E-07       3.5383E-00       3.5383E-08         426       GRID       54530       416510       1.77E-03       1.85E-05       2.51781E-07       3.5384E-09       3.5383E-08         418       GRID       54500       416510       1.77E-03       1.85E-05       2.41713E-07       3.5048E-08       3.51046E-08       3.5304EE-08         414       GRID       54500       4165100       1.77E-03       1.53E-05       2.41713E-07       3.5047E-08       3.5304EE-08         414       GRID       54500       4165001       1.77E-03       5.9664       2.47918E-07       3.5177E-04       3.2477E-08       3.5077E-08       3.5077E-08       3.6577E-08       3.6577E-08       3.6577E-08       3.6677E-08       3.6677E-08       3.6677E-08       3.677E-08       3.777E-08       3.777E-08       3.777E-08       3.777E-08       3.777E-08       3.777E-08       3.77806E-07       3.84715E-07       3.84415E-03       3.7482E-05       2.56238E-07       3.7488E-09       3.78906E-08       3.77835E-08       3.77835E-08       3.77835E-07       3.78906E-08       3.77835E-07       3.78906E-08       3.77835E-07       3.78906E-08       3.77835E-07       3.78906E-08       3.77855E-03 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
224         GRID         54520         416400         1.68E-08         3.3566-05         2.17881E-07         3.35682.00         3.59688E-08           218         GRID         54520         4169150         1.72E-03         1.59E-05         2.47891E-07         3.59688E-09         3.51048E-08           218         GRID         544950         415910         1.72E-03         1.536-05         2.417981E-07         3.53048E-09         3.51048E-08           544         GRID         54430         416400         1.68E-03         5.322-04         2.94488E-07         3.6777E-03         3.44722-08           419         GRID         54520         416900         1.73E-03         5.762-04         2.9448E-07         3.6777E-03         3.6777E-03         3.6777E-03         3.6777E-03         3.6777E-03         3.6777E-03         3.7778E-04         2.9744E-07         3.1787E-03         3.7773E-04         3.6977E-04         3.6977E-03         3.7773E-03         3.7773F-03									
448         CRU         54500         4164000         1.88E-03         2.51731E-07         3.5988E-03         3.57988E-03           118         GRU         54690         4165100         1.72E-03         1.53E-05         2.41734E-07         3.35048E-09         3.53048E-08           128         GRU         54490         1.72E-03         1.53E-05         2.47134E-07         3.35048E-09         3.54272E-03           131         GRU         54530         416400         1.72E-03         7.96E-05         2.74748E-07         3.64772E-09         3.65377E-08           207         GRU         54530         416600         1.77E-03         3.67737E-08         3.66377E-08         3.66377E-08           219         GRU         54540         416510         1.07E-03         2.77646         2.7781E-07         3.7138E-03         3.717686           219         GRU         54500         416510         1.07E-03         2.3781E-07         3.7138E-03         3.7717868           219         GRU         54500         416910         1.82E-03         2.9822E-07         3.8334E-09         3.778086           219         GRU         54500         416910         1.82E-03         2.5622E-07         3.83434E-09         3.89424E-08									
218         GRID         54500         4165150         1.71E-03         1.95E-05         2.41734E-07         3.5304E-08         3.5304E-08           644         GRID         544950         415800         1.72E-03         1.53E-05         2.41734E-07         3.5304E-08         3.5304E-08         3.54727E-08           713         GRID         54530         416100         1.56E-05         5.22E-04         2.94048E-07         3.67737E-08         3.67737E-08           713         GRID         545400         4158001         1.73E-03         5.18E-05         2.257446E-07         3.6777E-08         3.67737E-08           90         GRID         545404         4150501         1.77E-03         5.7474-05         2.57944E-07         3.86717E-08         3.82777E-08           223         GRID         545204         4150501         1.78E-03         3.27056         2.59803E-07         3.73804E-09         3.71233E-08         3.71233E-08         3.71233E-08         3.71233E-08         3.71234E-08         3.7124E-08         3									
198         GRU         54450         145510         1.72E-03         1.53E-05         2.4713HE-07         3.54272E-08         3.53048E-06           514         GRU         54450         1164500         1.73E-03         5.03E-04         2.94488E-07         4.26472E-08         4.26472E-08           217         GRU         54500         1.73E-03         5.07E-03         3.67737E-09         3.67737E-08           207         GRU         54520         145000         1.73E-03         5.07E-04         2.267446E-07         3.67737E-09         3.82777E-08           129         GRU         54520         146100         1.73E-03         1.77E-03         3.6777E-09         3.71188E-08           129         GRU         54520         146150         1.862-03         2.23E-05         2.25803E-07         3.7122E-09         3.61452-08           219         GRU         545100         1.456-03         2.23E-05         2.2583E-07         3.8343E-08         3.334E-08           210         SAT75         1.458450         1.856-03         3.156-05         2.7257E-07         3.8343E-08         3.342E-08           210         SAT50         1.456-03         2.46522E-07         3.8134E-09         3.8134E-08           216 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
514         ORID         54320         4144100         1.56E-33         5.32E-04         2.9848E-07         42.912E-09         42.9442E-06           217         GRID         54500         4156000         1.73E-03         5.19E-05         2.5444E-07         3.6773E-09         3.6777E-08           99         GRID         545450         4156000         1.73E-03         5.17E-04         2.5644E-07         3.6415E-09         3.6415E-08           218         GRID         545300         4156150         1.77E-03         3.74E-05         2.57891E-07         3.7338E-09         3.71233E-08           219         GRID         545250         4156150         1.88E-03         3.332-05         2.68238E-07         3.7338E-09         3.7890E-08           31         GRID         545250         414950         1.82E-03         3.17E-05         2.72587E-07         3.8942E-09         3.8492E-08           328         GRID         545500         414950         1.82E-03         1.48E-05         2.6522E-07         3.7898E-09         3.7888E-08           220         GRID         544750         4148400         1.85E-03         1.38E-03         2.6522E-07         3.7888E-08         3.7888E-08           220         GRID         54450	198	GRID	544950	4165100					
173       GRUD       545400       4165100       1.72E-03       2.5464E-07       3.67777E-06       3.67777E-06         499       GRUD       54550       4164050       1.72E-03       1.57E-04       2.5664E-07       3.6777E-06       3.82777E-08         190       GRUD       54550       4164050       1.72E-03       3.44E-05       2.59831E-07       3.71188E-08         223       GRUD       54550       4165150       1.06E-03       2.23E-05       2.59831E-07       3.74809E-09       3.83436-09         210       GRUD       545100       4165150       1.83E-03       3.32E-05       2.6532E-07       3.78808E-09       3.83343E-08         155       GRUD       545100       4165150       1.83E-03       3.23E-05       2.6522E-07       3.78808E-09       3.83343E-08         155       GRUD       545100       4165100       1.82E-03       1.7E-06       2.72297E-07       3.83343E-09       3.83348E-08       3.78808E-08       3.878281E-08						1.90E-05	2.47991E-07	3.54272E-09	3.54272E-08
227         GRID         54526         4164000         1.72E-03         5.19E-06         2.6644E-07         3.6377E-06         3.6377E-06           199         GRID         54525         4160500         1.72E-03         6.44E-05         2.59831E-07         3.71188E-08         3.71188E-08           223         GRID         545300         4165150         1.77E-03         3.74E-05         2.57891E-07         3.71233E-09         3.71233E-08           224         GRID         545200         4165150         1.83E-03         3.32E-05         2.6834E-07         3.8343E-09         3.8343E-08           155         GRID         545200         4164900         1.85E-03         1.54E-05         2.6522E-07         3.78808E-09         3.78808E-08           128         GRID         544750         4164900         1.85E-03         1.54E-05         2.6522E-07         3.78808E-09         3.78808E-08           200         GRID         544750         4164900         1.85E-03         1.54E-05         2.6522E-07         3.78808E-09         3.78808E-08           219         GRID         544500         4165100         1.85E-03         3.154E-05         2.6622E-07         3.718808E-09         3.81174E-08           220         GRID									4.26412E-08
499         GRID         54520         4164050         1.72E-04         2.8744E-07         3.82777E-05         3.82777E-05           219         GRID         54530         4165150         1.07E-03         3.74E-05         2.59831E-07         3.71188E-09         3.71188E-09           219         GRID         545100         4165150         1.08C-03         2.23E-05         2.59881E-07         3.7283E-09         3.83343E-08           222         GRID         545100         416950         1.83E-03         3.32E-05         2.6834E-07         3.78805E-09         3.78805E-03           128         GRID         545100         416950         1.82E-03         5.17E-05         2.72597E-07         3.84942E-09         3.8343E-08           220         GRID         544750         4164900         1.85E-03         1.54E-05         2.8522E-07         3.81857E-09         3.81857E-08           217         GRID         545500         4165100         1.86E-03         2.6682E-07         3.81897E-09         3.81857E-08           217         GRID         545500         4166100         1.87E-03         3.66E-04         3.01187E-07         3.8396E-09         3.81897E-08           217         GRID         545500         4166100									
190         CRID         54450         416505         1.786-03         3.748-05         2.57891E-07         3.74138E-08         3.71188E-08           210         CRID         54530         4165150         1.80E-03         2.378-05         2.57891E-07         3.74305-09         3.74809E-09           210         CRID         54520         4165150         1.83E-03         3.32E-05         2.86948E-07         3.8343E-09         3.8343E-08           91         CRID         54550         4164950         1.83E-03         5.272597E-07         3.89424E-09         3.8424E-08           128         CRID         544750         4164900         1.85E-03         1.54E-05         2.6522E-07         3.78889E-09         3.78889E-08           220         CRID         544750         4165050         1.85E-03         2.56E-05         2.6732E-07         3.8174E-09         3.81174E-08           221         CRID         545200         4165150         1.86E-03         3.32E-05         2.8797E-07         3.8396E-09         3.8396E-08           221         CRID         545300         416500         1.86E-03         3.0178E-05         2.71097E-07         3.8396E-09         3.82287E-08           210         CRID         545300         <									
2219         GRID         54300         4165150         1.77E-03         3.74E-05         2.57891E-07         3.78208E-07         3.78208E-07         3.78008E-08         3.78008E-08           222         GRID         54500         4165150         1.83E-03         3.33E-05         2.66328E-07         3.83434E-08         3.78889E-08         3.87887E-08         3.81174E-08         3.8117									
219       GRID       54500       1465150       180E-03       2.22E-05       2.59803E-07       3.7023E-08       3.77233E-08         222       GRID       544500       1465150       1.83E-03       3.32E-05       2.6520E-07       3.8040E-09       3.83343E-08         155       GRID       544500       144950       1.83E-03       5.26E-05       2.65222E-07       3.8842E-09       3.8842E-08         128       GRID       544750       1144900       1.85E-03       1.54E-05       2.65222E-07       3.78886E-09       3.78889E-08         200       GRID       544500       1165550       1.86E-03       2.65222E-07       3.81877E-09       3.81857E-08         210       GRID       544500       1165550       1.86E-03       2.68222E-07       3.81147E-09       3.81147E-08         211       GRID       544500       1165500       1.86E-03       2.94E-05       2.6872E-07       3.8134E-08       3.8198E-08         213       GRID       54300       1165100       1.86E-03       2.94E-07       3.8134E-08       3.8194E-08       3.8194E-08       3.8194E-08       3.8134E-08       3.8134E-08       3.8134E-08       3.8134E-08       3.8134E-08       3.8722E-08       3.8722E-08       3.8722E-08       3.8722E									
222         GRID         54250         4165150         1.83E-03         3.33E-05         2.63236E-07         3.83424E-08         3.83424E-08           191         GRID         54500         4169350         1.83E-03         5.29E-05         2.6344E-07         3.83424E-08         3.89424E-08           125         GRID         544750         4164900         1.88E-03         1.54E-05         2.65222E-07         3.78889E-08         3.78889E-08           220         GRID         544750         4165150         1.88E-03         1.54E-05         2.65222E-07         3.8187E-08         3.8178E-08           220         GRID         544500         4185150         1.88E-03         2.567E-07         3.8187E-08         3.8177E-08         3.8177E-08           221         GRID         544500         4185150         1.88E-03         3.58E-04         3.01187E-07         3.8382E-08         3.83227E-08         3.83227E-08         3.83227E-08         3.83227E-08         3.87281E-08         3.87281E-08 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
91         GRID         545100         4143950         1.83E-03         5.28E-05         2.8834E-09         3.83342E-08           155         GRID         544750         4144900         1.85E-03         1.54E-05         2.2527E-07         3.7889E-09         3.7889E-09         3.7889E-09           128         GRID         544750         4164900         1.85E-03         2.56222E-07         3.7889E-09         3.7889E-09           200         GRID         5445150         4165050         1.85E-03         2.6673E-07         3.8198E-09         3.8198E-09           211         GRID         54500         4165150         1.86E-03         2.9879E-07         3.8194E-09         3.8198E-09           213         GRID         545500         4165100         1.86E-03         3.0787E-05         2.71894E-07         3.8134E-09         3.8134E-08           214         GRID         545000         4165100         1.88E-03         3.057E-05         2.71874E-07         3.8134E-09         3.8728E-08           216         GRID         545000         4165100         1.88E-03         7.51E-05         2.71874E-07         3.8738E-09         3.8728E-08           217         GRID         545000         4165100         1.88E-03									
155       GRID       545500       4164900       1.82E-03       9.17E-05       2.72597E-07       3.88424E-09       3.88424E-09       3.88424E-09         128       GRID       544750       4164900       1.85E-03       1.54E-05       2.65222E-07       3.78889E-09       3.78889E-08         220       GRID       5445150       1.85E-03       2.55E-05       2.673207       3.8187E-09       3.8189E-08         221       GRID       545500       4165150       1.86E-03       2.94E-05       2.8692E-07       3.8194E-09       3.8194E-08         221       GRID       545300       4165110       1.86E-03       3.0187E-07       4.30267E-08       4.30267E-08         206       GRID       545300       4165100       1.86E-03       7.15E-05       2.71894E-07       3.86134E-09       3.8184E-08         70       GRID       545300       4165100       1.88E-03       7.15E-05       2.7847E-07       3.9742E-09       3.9742E-09       3.9742E-08         717       GRID       54500       4165100       1.88E-03       2.715F1E-07       3.9948E-09       3.97482E-09       3.97482E-09       3.97482E-09       3.97489E-08       3.97482E-09       3.97482E-09       3.97489E-08       3.97489E-09       3.95569E-09	91	GRID	545100	4163950					
128         GRID         544750         4164900         1.85E-03         1.54E-05         2.6522E-07         3.78889E-09         3.78889E-08           220         GRID         544750         4165150         1.85E-03         2.56E-05         2.673E-07         3.8187E-09         3.8185F-08           220         GRID         544300         4165150         1.86E-03         2.94E-05         2.6672E-07         3.81174E-09         3.81174E-08           221         GRID         543200         4165150         1.86E-03         2.94E-05         2.6677E-07         3.8136E-09         3.83986E-08           211         GRID         543300         4165100         1.86E-03         3.66E-04         3.01174E-07         3.80267E-09         3.80267E-08           206         GRID         543000         4165100         1.87E-03         3.86E-05         2.7697E-07         3.87281E-09         3.87281E-08           172         GRID         544500         4165000         1.87E-03         1.84E-05         2.7847E-07         3.97281E-09         3.97281E-08           172         GRID         54450         4165000         1.84E-05         2.7847E-07         3.97488E-03         3.9748E-08           180         GRID         544600				4164950	1.82E-03	9.17E-05	2.72597E-07		
220         GRID         545150         186E-03         2.56E-05         2.673E-07         3.81857E-00         3.81857E-08           179         GRID         544800         4165150         1.86E-03         2.94E-05         2.66822E-07         3.81174E-09         3.81867E-08           513         GRID         543300         4165150         1.86E-03         2.94E-05         2.6679E-07         3.8134E-09         3.8134E-08           206         GRID         543300         4165100         1.7EE-03         3.66E-04         3.01187E-07         3.8124E-09         3.87281E-08           70         GRID         544500         4165100         1.87E-03         3.88E-05         2.71097E-07         3.97822E-09         3.97822E-08           172         GRID         545400         4165100         1.98E-03         1.34E-05         2.7847E-07         3.97489E-09         3.97489E-08           189         GRID         545400         416500         1.92E-03         8.18E-05         2.7847E-07         3.97489E-09         3.98589E-08           141         GRID         544805         4166100         1.92E-03         8.18E-05         2.8347E-07         4.02778E-09         4.953859E-08           1414         GRID         5448050							2.65222E-07	3.78889E-09	
179       GRID       544900       4165150       1.88E-03       1.33E-05       2.66822E-07       3.81174E-06         221       GRID       545300       4165150       1.86E-03       2.94405       2.8679E-07       3.83986E-09       3.83986E-08         206       GRID       545300       4165100       1.86E-03       4.75E-05       2.171694E-07       3.8314E-09       3.872E1E-08         206       GRID       545300       4165100       1.87E-05       2.71197E-07       3.87281E-09       3.8722E1-08         70       GRID       545000       1.88E-03       7.51E-05       2.78476E-07       3.97282E-09       3.97822E-08         719       GRID       545000       1.86E-03       6.01E-05       2.78476E-07       3.97489E-09       3.97849E-08         818       GRID       54500       1.86E-03       6.01E-05       2.78242E-07       3.97849E-09       3.98858E-08         141       GRID       544600       1.92E-03       2.32E-05       2.77101E-07       3.95859E-09       3.98858E-08         141       GRID       544650       118600       1.92E-03       2.32E-05       2.87504E-07       4.00639E-08       4.06739E-08         140       GRID       544500       11869E-03									3.78889E-08
221         GRID         545200         4165150         1.86E-03         2.94E-05         2.8675E-07         3.8398E-06         3.8398E-06           513         GRID         545300         4155100         1.86E-03         4.75E-05         2.71694E-07         3.8398E-06         3.8227E-08           70         GRID         545400         4153900         1.87E-03         3.86E-05         2.71694E-07         3.87281E-09         3.87281E-08           70         GRID         545450         4155100         1.88E-03         4.75E-05         2.71697E-07         3.87281E-09         3.87281E-08           719         GRID         545400         4165100         1.88E-03         6.01E-05         2.73571E-07         3.90416E-09         3.9948E-08           818         GRID         545400         416500         1.88E-03         2.322405         2.77101E-07         3.97489E-09         3.97489E-08           484         GRID         545150         4164000         1.92E-03         8.18E-05         2.83947E-07         4.06393E-09         4.06539E-08           141         GRID         544500         4164950         1.98E-03         1.34E-05         2.83947E-07         4.02779E-08         4.02779E-08           205         GRID									
513       GRID       545300       4164100       1.75E-03       3.66E-04       3.01187E-07       3.0207E-05       4.30207E-05         206       GRID       545500       4165000       1.86E-03       3.75E-05       2.71694E-07       3.8713E-09       3.8713E-08         172       GRID       545400       4165000       1.88E-03       7.51E-05       2.71697E-07       3.97822E-09       3.97822E-08         199       GRID       545400       4165000       1.89E-03       6.01E-05       2.72476E-07       3.97489E-09       3.97489E-08         484       GRID       545400       4164000       1.92E-03       8.18E-05       2.248404E-07       4.06864E-09       4.06864E-08         630       GRID       544650       4164000       1.92E-03       2.32E-05       2.77101E-07       3.98859E-09       3.95859E-08         141       GRID       544650       1.98E-03       1.34E-05       2.84045E-07       4.02779E-09       4.022779E-08         206       GRID       544500       1.98E-03       1.34E-04       2.9921E-07       4.02008E-09       4.06008E-08         498       GRID       545200       4164090       1.98E-03       1.34E-04       2.9921E-07       4.22565E-09       4.23565E-08									
206         GRID         545350         4165100         1.86E-03         4.75E-05         2.71694E-07         3.89134E-09         3.86134E-08           70         GRID         545400         4163900         1.87E-03         3.89E-05         2.71097E-07         3.87281E-09         3.87281E-08           172         GRID         545450         416500         1.87E-03         5.01E-05         2.78476E-07         3.90816E-09         3.90816E-08           189         GRID         545450         416500         1.89E-03         6.01E-05         2.78242E-07         3.90816E-09         3.9749E-08           630         GRID         545450         4164000         1.92E-03         8.18E-05         2.84946E-07         4.06864E-09         4.06864E-08           630         GRID         544500         4164000         1.92E-03         8.18E-05         2.81945E-07         4.05639E-09         4.06639E-08           6411         GRID         544800         4164950         1.98E-03         1.32E-05         2.81945E-07         4.02779E-09         4.22742E-08           6450         GRID         544500         4164950         1.98E-03         1.43E-05         2.89496E-07         4.28008E-09         4.28082E-08           6160         GRI									
70         GRID         545000         4183900         1.87E-03         3.89E-05         2.7197E-07         3.87281E-06         3.87281E-06           172         GRID         545000         4185100         1.90E-03         1.84E-05         2.7847E-07         3.9782E-09         3.9782E-08           199         GRID         545000         4185100         1.90E-03         1.84E-05         2.73571E-07         3.90416E-09         3.97489E-08           848         GRID         544500         4185050         1.89E-03         6.01E-05         2.7822E-07         3.97489E-09         4.96864E-08           630         GRID         544650         4164400         1.92E-03         2.32E-05         2.7101E-07         3.95859E-09         4.96639E-08           141         GRID         544650         4164900         1.92E-03         2.23E-05         2.8194E-07         4.02778E-09         4.02778E-08           205         GRID         544500         4185000         1.97E-03         1.27E-05         2.8505E-07         4.02008E-09         4.23665E-08           425         GRID         544500         4186100         1.98E-03         5.2E-05         2.97504E-07         4.23665E-09         4.23665E-08           186         GRID									
172       GRID       546450       4165000       1.88E-03       7.51E-05       2.78571E-07       3.97822E-08       3.97822E-08         199       GRID       545000       4165050       1.89E-03       6.01E-05       2.78571E-07       3.97848E-09       3.97489E-08         484       GRID       545100       4164000       1.92E-03       2.32E-05       2.77101E-07       3.95859E-09       4.06864E-08         630       GRID       544500       4164950       1.98E-03       2.32E-05       2.77101E-07       4.05639E-09       4.06639E-08         141       GRID       544500       4164950       1.98E-03       1.34E-05       2.83604E-07       4.06038E-09       4.06608E-08         160       GRID       544500       4164950       1.98E-03       1.22E-05       2.81945E-07       4.08008E-09       4.08008E-08         205       GRID       545200       4164950       1.98E-03       8.22E-05       2.95496E-07       4.2265E-09       4.25305E-08         154       GRID       545200       4165000       2.04E-03       5.52E-05       2.97591E-07       4.2365E-09       4.25008E-08         171       GRID       545350       4165000       2.04E-03       3.06E-05       2.9937E-07       4.2	70	GRID	545000						
199       GRID       545000       4165100       1.90E-03       1.84E-05       2.78242E-07       3.90816E-09       3.97489E-08         189       GRID       545100       4164000       1.92E-03       8.18E-05       2.84804E-07       4.06864E-09       4.06864E-09         630       GRID       544500       1416400       1.92E-03       8.18E-05       2.78124E-07       4.05639E-09       3.98589E-08         141       GRID       544800       1464800       1.92E-03       1.27E-05       2.81947E-07       4.05639E-09       4.06684E-09         160       GRID       544850       4165000       1.97E-03       1.27E-05       2.81945E-07       4.02779E-09       4.02779E-08         205       GRID       545200       4164050       1.96E-03       4.29E-05       2.9690E-07       4.27442E-09       4.27442E-08         188       GRID       54550       4165100       2.04E-03       2.52E-05       2.9750E-07       4.2900E-09       4.2900E-08         200       GRID       54560       4166100       2.04E-03       2.05E-03       3.0958E-07       4.2937E-09       4.29506E-09       4.29507E-08         201       GRID       54520       4165100       2.04E-03       7.06E-05       3.0975E-0	172	GRID	545450	4165000	1.88E-03	7.51E-05			
484       GRID       545150       4164000       1.92E-03       8.18E-05       2.84804E-07       4.06884E-09       4.06884E-09         630       GRID       544650       4164800       1.92E-03       2.32E-05       2.71101E-07       3.95859E-09       3.95859E-09         141       GRID       544800       4164850       1.92E-03       1.34E-05       2.83947E-07       4.06539E-09       4.06639E-08         140       GRID       544850       4165000       1.97E-03       1.27E-05       2.81945E-07       4.08708E-09       4.08008E-08         205       GRID       54500       4164050       1.96E-03       1.22E-05       2.9921E-07       4.27442E-09       4.27442E-08         498       GRID       545050       4165050       2.03E-03       5.52E-05       2.97504E-07       4.25006E-09       4.25056E-09         188       GRID       545050       4165100       2.04E-03       7.08E-05       2.9375E-07       4.19965E-09       4.29937E-08         204       GRID       545250       4165100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         512       GRID       545250       4165100       2.05E-03       3.80E-05       2.997591E-07       4.54							2.73571E-07	3.90816E-09	
630         GRID         544650         4164800         1.92E-03         2.32E-05         2.77101E-07         3.95859E-09         3.95859E-08           141         GRID         544800         4164950         1.98E-03         1.22E-05         2.81947E-07         4.05639E-09         4.05639E-08           205         GRID         544850         4165000         1.97E-03         4.22E-05         2.8605E-07         4.06008E-09         4.08008E-08           498         GRID         545300         4164050         1.99E-03         1.43E-04         2.9921E-07         4.27442E-09         4.27442E-08           154         GRID         545350         416500         2.03E-03         5.52E-05         2.97504E-07         4.23006E-09         4.25006E-08           188         GRID         545350         4165100         2.04E-03         7.06E-05         3.00956E-07         4.29008E-09         4.25006E-08           200         GRID         545350         4165100         2.04E-03         7.06E-05         3.00956E-07         4.2937E-09         4.22937E-08           204         GRID         545250         4164100         1.97E-03         3.20E-04         3.20638E-07         5.46426E-09         5.46426E-08           171         GRID </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.97489E-08</td>									3.97489E-08
141       GRID       544800       4164950       1.98E-03       1.34E-05       2.83947E-07       4.0503E-09       4.05639E-08         160       GRID       544850       4165000       1.97E-03       1.27E-05       2.81945E-07       4.02779E-09       4.02779E-08         205       GRID       545200       4164050       1.98E-03       1.43E-04       2.9921E-07       4.27442E-09       4.27442E-08         488       GRID       545200       4164050       1.99E-03       8.82E-05       2.96496E-07       4.23665E-09       4.23565E-08         188       GRID       54550       416500       2.04E-03       2.15E-05       2.97504E-07       4.29937E-09       4.29937E-08         200       GRID       545050       4165100       2.04E-03       7.06E-05       2.97591E-07       4.29377E-08       4.29937E-08         214       GRID       545250       4165100       2.04E-03       2.06E-08       3.29638E-07       4.58054E-09       4.58054E-08         512       GRID       545250       4165100       2.05E-03       3.00E-05       2.97591E-07       4.29377E-08       4.2937E-08         528       GRID       545250       4165100       2.13E-03       3.20638E-07       4.58054E-09       5.									
160       GRID       544850       4165000       1.97E-03       1.27E-05       2.81945E-07       4.020779E-09       4.02779E-08         205       GRID       545300       4165100       1.96E-03       4.29E-05       2.85605E-07       4.08008E-09       4.08008E-08         498       GRID       545200       4164050       1.96E-03       8.22E-05       2.86605E-07       4.23565E-09       4.23565E-08         154       GRID       545450       416950       2.03E-03       5.52E-05       2.97504E-07       4.22006E-09       4.25006E-08         200       GRID       54500       4165100       2.04E-03       7.06E-05       3.0956E-07       4.29937E-09       4.2937E-08         201       GRID       545250       4166100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         171       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.58054E-09       4.6426E-08         512       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.3299E-09       4.34299E-08         201       GRID       545250       4165100       2.05E-03       3.06178E-07       4.3129E-09       4.342									
205       GRID       545300       4165100       1.96E-03       4.29E-05       2.85605E-07       4.08008E-09       4.08008E-08         498       GRID       545200       4164050       1.96E-03       1.43E-04       2.9921E-07       4.27442E-09       4.27442E-08         154       GRID       545450       4164950       1.99E-03       5.52E-05       2.97504E-07       4.23565E-09       4.25006E-08         200       GRID       545500       4165100       2.04E-03       2.15E-05       2.93975E-07       4.19965E-09       4.29096E-08         204       GRID       545250       4165100       2.04E-03       7.06E-05       3.00956E-07       4.2937E-09       4.2513E-09       4.2513E-09         204       GRID       545250       4165100       2.05E-03       3.80E-05       2.97591E-07       4.2613E-09       4.2613E-08         528       GRID       545250       4165100       1.97E-03       2.78E-04       3.20638E-07       4.38054E-09       4.34299E-08         180       GRID       544950       4165050       2.12E-03       1.63E-05       3.0409E-07       4.34299E-09       4.34299E-08         201       GRID       544950       4165010       2.13E-03       3.92E-05       3.06178									
498       GRID       545200       4164050       1.96E-03       1.43E-04       2.9971E-07       4.27442E-09       4.27442E-08         154       GRID       545450       4164950       1.99E-03       8.82E-05       2.96496E-07       4.2366E-09       4.23565E-08         188       GRID       54550       4165100       2.03E-03       5.52E-05       2.97504E-07       4.25006E-09       4.29007         200       GRID       545050       4165100       2.04E-03       7.06E-05       2.9375E-07       4.19965E-09       4.29937E-08         171       GRID       545250       4166100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         528       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       5.46426E-09       5.46426E-08         180       GRID       545250       4164150       1.76E-03       9.26E-04       3.82499E-07       5.46426E-09       5.46426E-08         180       GRID       545100       4165100       2.12E-03       1.63E-05       3.06103E-07       4.37397E-09       4.3729E-08         201       GRID       545100       4165100       2.13E-03       3.92E-05       3.06103E-07       4.3729E-09<									
154       GRID       545450       4164950       1.99E-03       8.82E-05       2.94646E-07       4.23565E-09       4.23506E-08         188       GRID       545350       4165050       2.03E-03       5.52E-05       2.9375E-07       4.2900E-09       4.2900E-08         200       GRID       545050       4165100       2.04E-03       7.06E-05       3.00956E-07       4.29937E-09       4.29337E-08         204       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.58054E-09       4.58054E-08         528       GRID       545250       4164150       1.76E-03       9.26E-04       3.82499E-07       5.46426E-09       5.46426E-08         180       GRID       54520       4165100       2.13E-03       1.63E-05       3.0409E-07       4.37397E-09       4.37397E-08         201       GRID       54450       4165000       2.12E-03       3.02E-05       3.06178E-07       4.37397E-09       4.3729E-08         203       GRID       54520       4165100       2.13E-03       3.95E-05       3.0873E-07       4.4319E-09       4.43129E-08         203       GRID       54550       4165390       2.13E-03       3.95E-05       3.08579E-07       4.4319E-09<									
188       GRID       545350       4165050       2.03E-03       5.52E-05       2.97504E-07       4.25006E-09       4.25006E-08         200       GRID       545050       4165100       2.04E-03       7.06E-05       3.09375E-07       4.19965E-09       4.29337E-08         204       GRID       545250       4165100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         512       GRID       545250       4164100       1.97E-03       2.78E-04       3.20838E-07       4.58054E-09       4.56054E-08         528       GRID       544350       4165100       2.12E-03       1.63E-05       3.04009E-07       4.3299E-09       4.34299E-08         201       GRID       54450       4165100       2.13E-03       2.49E-05       3.06103E-07       4.3739TE-09       4.3739TE-08         203       GRID       54450       4165100       2.13E-03       3.95E-05       3.06133E-07       4.31739TE-09       4.3729E-08         203       GRID       54450       4163900       2.13E-03       3.95E-05       3.0879E-07       4.40827E-09       4.3729E-08         204       GRID       54450       4163900       2.13E-03       3.85E-05       3.0233E-07       4.4319E-09	154	GRID	545450	4164950					
171       GRID       545400       4165000       2.04E-03       7.06E-05       3.00956E-07       4.29937E-09       4.2937E-08         204       GRID       545250       4165100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         512       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.58054E-09       4.58054E-08         528       GRID       545350       4164150       1.97E-03       2.249E-05       3.04009E-07       4.34299E-09       4.34299E-08         201       GRID       545100       4165100       2.13E-03       2.49E-05       3.06178E-07       4.37397E-09       4.37397E-08         203       GRID       544500       4165100       2.13E-03       3.32E-05       3.06178E-07       4.40827E-09       4.43729E-08         203       GRID       54500       4163900       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.4319E-08         202       GRID       545100       4163900       2.13E-03       5.34E-05       3.10233E-07       4.4319E-09       4.4319E-08         202       GRID       545100       4164505       2.17E-03       4.97E-05       3.16361E-07       4.5194						5.52E-05		4.25006E-09	
204       GRID       545250       4165100       2.05E-03       3.80E-05       2.97591E-07       4.2513E-09       4.2513E-08         512       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.58054E-09       4.58054E-08         528       GRID       545250       4164150       1.76E-03       9.26E-04       3.82499E-07       5.46426E-09       5.46426E-08         180       GRID       54550       4165100       2.13E-03       2.49E-05       3.06178E-07       4.37397E-09       4.37397E-08         201       GRID       545200       4165100       2.13E-03       3.92E-05       3.06103E-07       4.37397E-09       4.3729E-08         203       GRID       545050       4163900       2.13E-03       3.95E-05       3.09582E-07       4.40827E-09       4.40827E-08         90       GRID       545050       4163900       2.13E-03       2.87E-05       3.09582E-07       4.4319E-09       4.319E-08         920       GRID       545050       4163950       2.13E-03       5.65E-04       3.63153E-07       5.1879E-09       5.1879E-08         527       GRID       545300       4164150       1.99E-03       5.65E-04       3.63153E-07       5.1879E-09									4.19965E-08
512       GRID       545250       4164100       1.97E-03       2.78E-04       3.20638E-07       4.58054E-09       4.58054E-08         528       GRID       545350       4164150       1.76E-03       9.26E-04       3.82499E-07       5.46426E-09       5.46426E-08         180       GRID       545350       4165050       2.12E-03       1.63E-05       3.04009E-07       4.34299E-09       4.34299E-08         201       GRID       545400       4165100       2.12E-03       3.32E-05       3.06178E-07       4.37397E-09       4.37397E-08         203       GRID       545200       4165100       2.12E-03       3.32E-05       3.06178E-07       4.37397E-09       4.37397E-08         69       GRID       545050       4163900       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.4319E-08         90       GRID       545050       4163950       2.13E-03       2.87E-05       3.09582E-07       4.4319E-09       4.4319E-08         2222       GRID       545050       4165050       2.17E-03       4.97E-05       3.16361E-07       4.51944E-09       4.51944E-08         187       GRID       545300       41665050       2.17E-03       4.97E-05       3.16361E-07       4.6									
528       GRID       545350       4164150       1.76E-03       9.26E-04       3.82499E-07       5.46426E-09       5.46426E-08         180       GRID       544950       4165050       2.12E-03       1.63E-05       3.04009E-07       4.34299E-09       4.34299E-08         201       GRID       545100       2.13E-03       2.49E-05       3.06178E-07       4.37397E-09       4.37397E-08         203       GRID       545200       4165100       2.12E-03       3.32E-05       3.06103E-07       4.3729E-09       4.3729E-08         69       GRID       544550       4163950       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.40827E-08         90       GRID       54550       4166100       2.15E-03       2.87E-05       3.09582E-07       4.4319E-09       4.4226E-08         202       GRID       545300       4164150       1.99E-03       5.65E-04       3.63153E-07       5.1879E-09       5.1879E-08         187       GRID       545300       4165000       2.17E-03       4.97E-05       3.16361E-07       4.51944E-09       4.62453E-08         183       GRID       545400       4164950       2.19E-03       8.35E-05       3.23717E-07       4.62453E-09       4.624									
180       GRID       544950       4165050       2.12E-03       1.63E-05       3.04009E-07       4.34299E-09       4.34299E-08         201       GRID       545100       4165100       2.13E-03       2.49E-05       3.06178E-07       4.37397E-09       4.37397E-08         203       GRID       545200       4165100       2.12E-03       3.32E-05       3.06103E-07       4.3729E-09       4.3729E-08         69       GRID       544950       4163900       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.40827E-08         90       GRID       545050       4163900       2.13E-03       2.87E-05       3.09582E-07       4.4226E-09       4.4226E-08         202       GRID       545150       4165100       2.15E-03       2.87E-05       3.09582E-07       4.4226E-09       4.4226E-08         527       GRID       545300       4165050       2.17E-03       4.97E-05       3.16361E-07       4.51944E-09       4.51944E-08         187       GRID       545300       4165050       2.17E-03       4.97E-05       3.16361E-07       4.62453E-09       4.62453E-08         186       GRID       545300       4164000       2.22E-03       6.48E-05       3.2717E-07       4.64536E-									
201       GRID       545100       4165100       2.13E-03       2.49E-05       3.06178E-07       4.37397E-09       4.37397E-08         203       GRID       545200       4165100       2.12E-03       3.32E-05       3.06178E-07       4.37397E-09       4.3729E-08         69       GRID       545200       4163900       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.40827E-08         90       GRID       545050       4163950       2.13E-03       5.34E-05       3.10233E-07       4.4319E-09       4.4328E-08         202       GRID       545050       4165100       2.15E-03       2.87E-05       3.09582E-07       4.4226E-09       4.4226E-08         527       GRID       545300       416450       1.99E-03       5.65E-04       3.63153E-07       5.1879E-09       5.1879E-08         187       GRID       545300       4164950       2.19E-03       8.35E-05       3.23717E-07       4.64536E-09       4.62453E-08         170       GRID       545300       4164950       2.19E-03       8.35E-05       3.27805E-07       4.64536E-09       4.68293E-08         483       GRID       545100       4164950       2.22E-03       7.88E-05       3.27805E-07       4.68293E-0									
203       GRID       545200       4165100       2.12E-03       3.32E-05       3.06103E-07       4.3729E-09       4.3729E-08         69       GRID       544950       4163900       2.13E-03       3.95E-05       3.08579E-07       4.40827E-09       4.40827E-08         90       GRID       545050       4163950       2.13E-03       5.34E-05       3.09579E-07       4.4319E-09       4.4319E-08         202       GRID       545150       4165100       2.15E-03       2.87E-05       3.09582E-07       4.4226E-09       4.4226E-08         527       GRID       545300       416550       2.17E-03       5.65E-04       3.63153E-07       5.1879E-09       5.1879E-08         187       GRID       545300       416450       1.99E-03       5.65E-04       3.63153E-07       4.62453E-09       4.51944E-08         153       GRID       545300       4164950       2.19E-03       8.35E-05       3.2717E-07       4.62453E-09       4.62453E-08         170       GRID       545300       4166400       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.68293E-08         483       GRID       54510       4164000       2.22E-03       1.28E-04       3.38272E-07       4.83245E-09 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
69GRID54495041639002.13E-033.95E-053.08579E-074.40827E-094.40827E-0890GRID54505041639052.13E-035.34E-053.10233E-074.4319E-094.4319E-08202GRID54515041661002.15E-032.87E-053.09582E-074.4226E-094.4226E-09527GRID54530041641501.99E-035.65E-043.63153E-075.1879E-095.1879E-08187GRID54530041669502.17E-034.97E-053.16361E-074.51944E-094.51944E-08153GRID54540041649502.19E-038.35E-053.23717E-074.62453E-094.62453E-08170GRID54530041660002.22E-036.48E-053.27805E-074.68298E-094.68298E-08483GRID54510041640002.22E-031.28E-043.38272E-074.83245E-094.83245E-08497GRID5455041650502.29E-031.28E-043.38272E-074.83245E-094.83245E-08497GRID5455041650502.29E-034.38E-053.3264E-074.75206E-094.75206E-08186GRID54520041650502.34E-032.01E-053.35605E-074.79436E-094.79436E-08181GRID54520041650502.34E-032.01E-053.35605E-075.07323E-094.79236E-08181GRID54520041650502.34E-032.01E-053.35605E-075.07323E-094.7	203	GRID		4165100					
90         GRID         545050         4163950         2.13E-03         5.34E-05         3.10233E-07         4.4319E-09         4.4319E-08           202         GRID         545150         4165100         2.15E-03         2.87E-05         3.09582E-07         4.4226E-09         4.4226E-08           527         GRID         545300         4164150         1.99E-03         5.65E-04         3.63153E-07         5.1879E-09         5.1879E-08           187         GRID         545300         4165050         2.17E-03         4.97E-05         3.16361E-07         4.51944E-09         4.51944E-08           153         GRID         545400         4164950         2.19E-03         8.35E-05         3.23717E-07         4.64536E-09         4.64536E-08           170         GRID         545100         4164900         2.22E-03         6.48E-05         3.23717E-07         4.64536E-09         4.64536E-08           483         GRID         545100         4164000         2.22E-03         7.88E-05         3.27805E-07         4.68293E-09         4.68293E-08           497         GRID         545100         4164050         2.25E-03         1.28E-04         3.38272E-07         4.83245E-09         4.68293E-08           186         GRID					2.13E-03	3.95E-05	3.08579E-07		
527       GRID       545300       4164150       1.99E-03       5.65E-04       3.63153E-07       5.1879E-09       5.1879E-08         187       GRID       545300       4165050       2.17E-03       4.97E-05       3.16361E-07       4.51944E-09       4.51944E-08         153       GRID       545300       4164950       2.19E-03       8.35E-05       3.23717E-07       4.62453E-09       4.62453E-08         170       GRID       545300       4166000       2.22E-03       6.48E-05       3.25175E-07       4.64536E-09       4.64536E-08         483       GRID       545100       4164000       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.8293E-08         497       GRID       545150       4164050       2.25E-03       1.28E-04       3.38272E-07       4.83245E-09       4.83245E-08         186       GRID       545250       4165050       2.29E-03       4.38E-05       3.32644E-07       4.75206E-09       4.75206E-08         181       GRID       545200       4165050       2.34E-04       3.35605E-07       4.79436E-09       4.75206E-08         181       GRID       545200       4165050       2.34E-03       2.31E-03       3.55126E-07       5.07323E-09								4.4319E-09	
187       GRID       545300       4165050       2.17E-03       4.97E-05       3.16361E-07       4.51944E-09       4.51944E-08         153       GRID       545400       4164950       2.19E-03       8.35E-05       3.23717E-07       4.62453E-09       4.62453E-08         170       GRID       545300       4165000       2.22E-03       6.48E-05       3.25175E-07       4.64536E-09       4.64536E-08         483       GRID       545100       4164000       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.68293E-08         497       GRID       545150       4164000       2.22E-03       1.28E-04       3.38272E-07       4.83245E-09       4.83245E-08         186       GRID       545150       4165050       2.39E-03       4.38E-05       3.32644E-07       4.75206E-09       4.75206E-08         181       GRID       54500       4165050       2.34E-03       2.01E-05       3.35605E-07       4.79436E-08       4.79436E-08         511       GRID       54500       4164100       2.27E-03       2.24E-04       3.55126E-07       5.07323E-09       5.07323E-08         617       GRID       544600       4164750       2.31E-03       2.67E-05       3.333378E-07       4									4.4226E-08
153       GRID       545400       4164950       2.19E-03       8.35E-05       3.23717E-07       4.62453E-09       4.62453E-08         170       GRID       545350       4165000       2.22E-03       6.48E-05       3.25175E-07       4.64536E-09       4.64536E-08         483       GRID       545100       4164000       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.68293E-08         497       GRID       545150       4164050       2.25E-03       1.28E-04       3.38272E-07       4.83245E-09       4.83245E-08         186       GRID       545250       4165050       2.29E-03       4.38E-05       3.32644E-07       4.75206E-09       4.75206E-08         181       GRID       545000       4165050       2.34E-03       2.01E-05       3.35605E-07       4.79436E-08         511       GRID       545200       4164100       2.27E-03       2.24E-04       3.55126E-07       5.07323E-09       5.07323E-08         511       GRID       544600       4164750       2.31E-03       2.67E-05       3.33378E-07       4.76254E-09       4.76254E-08									
170       GRID       545350       4165000       2.22E-03       6.48E-05       3.25175E-07       4.64536E-09       4.64536E-08         483       GRID       545100       4164000       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.68293E-08         497       GRID       545150       4164050       2.25E-03       1.28E-04       3.38272E-07       4.83245E-09       4.83245E-08         186       GRID       545250       4165050       2.29E-03       4.38E-05       3.32644E-07       4.75206E-09       4.75206E-08         181       GRID       545000       4165050       2.34E-03       2.01E-05       3.35605E-07       4.79436E-08         511       GRID       545200       4164100       2.27E-03       2.24E-04       3.55126E-07       5.07323E-08         617       GRID       544600       4164750       2.31E-03       2.67E-05       3.33378E-07       4.76254E-09       4.76254E-08									
483       GRID       545100       4164000       2.22E-03       7.88E-05       3.27805E-07       4.68293E-09       4.68293E-08         497       GRID       545150       4164050       2.25E-03       1.28E-04       3.38272E-07       4.83245E-09       4.83245E-08         186       GRID       545250       4165050       2.29E-03       4.38E-05       3.32644E-07       4.75206E-09       4.75206E-08         181       GRID       545200       4165050       2.34E-03       2.01E-05       3.35605E-07       4.79436E-09       4.79436E-08         511       GRID       545200       4164100       2.27E-03       2.24E-04       3.55126E-07       5.07323E-09       5.07323E-08         617       GRID       544600       4164750       2.31E-03       2.67E-05       3.33378E-07       4.76254E-09       4.76254E-08									
497         GRID         545150         4164050         2.25E-03         1.28E-04         3.38272E-07         4.83245E-09         4.83245E-08           186         GRID         545250         4165050         2.29E-03         4.38E-05         3.32644E-07         4.75206E-09         4.75206E-08           181         GRID         545000         4165050         2.34E-03         2.01E-05         3.35605E-07         4.79436E-09         4.79436E-08           511         GRID         545200         4164100         2.27E-03         2.24E-04         3.55126E-07         5.07323E-09         5.07323E-08           617         GRID         544600         4164750         2.31E-03         2.67E-05         3.33378E-07         4.76254E-09         4.76254E-08									
186         GRID         545250         4165050         2.29E-03         4.38E-05         3.32644E-07         4.75206E-09         4.75206E-08           181         GRID         545000         4165050         2.34E-03         2.01E-05         3.35605E-07         4.79436E-09         4.79436E-08           511         GRID         545200         4164100         2.27E-03         2.24E-04         3.55126E-07         5.07323E-09         5.07323E-08           617         GRID         544600         4164750         2.31E-03         2.67E-05         3.33378E-07         4.76254E-09         4.76254E-08									
181         GRID         545000         4165050         2.34E-03         2.01E-05         3.35605E-07         4.79436E-09         4.79436E-08           511         GRID         545200         4164100         2.27E-03         2.24E-04         3.55126E-07         5.07323E-09         5.07323E-08           617         GRID         544600         4164750         2.31E-03         2.67E-05         3.33378E-07         4.76254E-09         4.76254E-08									
511         GRID         545200         4164100         2.27E-03         2.24E-04         3.55126E-07         5.07323E-09         5.07323E-08           617         GRID         544600         4164750         2.31E-03         2.67E-05         3.33378E-07         4.76254E-09         4.76254E-08									
617 GRID 544600 4164750 2.31E-03 2.67E-05 3.33378E-07 4.76254E-09 4.76254E-08				4164100					
161 GRID 544900 4165000 2.34E-03 1.45E-05 3.34801E-07 4.78288E-09 4.78288E-08									
	161	GRID	544900	4165000	2.34E-03	1.45E-05	3.34801E-07	4.78288E-09	4.78288E-08

				Annual (				
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk
645	GRID	544750	4164850	from construction 2.36E-03	1.88E-05	(70 Yr Exposure) 3.38586E-07	(1 Yr Exposure) 4.83694E-09	(1 Yr Exposure adjusted by ASF) 4.83694E-08
526	GRID	545250	4164150	2.27E-03	4.03E-04	3.80614E-07	5.43734E-09	5.43734E-08
169	GRID	545300	4165000	2.40E-03	5.83E-05	3.50548E-07	5.00783E-09	5.00783E-08
152 185	grid Grid	545350 545200	4164950 4165050	2.40E-03	7.71E-05	3.53223E-07	5.04604E-09	5.04604E-08
182	GRID	545050	4165050	2.40E-03 2.47E-03	3.80E-05 2.40E-05	3.47661E-07 3.55171E-07	4.96658E-09 5.07387E-09	4.96658E-08 5.07387E-08
631	GRID	544700	4164800	2.45E-03	2.35E-05	3.51927E-07	5.02753E-09	5.02753E-08
68	GRID	544900	4163900	2.47E-03	3.94E-05	3.57368E-07	5.10526E-09	5.10526E-08
184 183	GRID GRID	545150 545100	4165050	2.49E-03	3.26E-05	3.59571E-07	5.13672E-09	5.13672E-08
541	GRID	545300	4165050 4164200	2.52E-03 2.25E-03	2.80E-05 8.38E-04	3.62087E-07 4.39344E-07	5.17267E-09 6.27634E-09	5.17267E-08
142	GRID	544850	4164950	2.54E-03	1.44E-05	3.6331E-07	5.19014E-09	6.27634E-08 5.19014E-08
89	GRID	545000	4163950	2.54E-03	5.34E-05	3.68859E-07	5.26942E-09	5.26942E-08
129	GRID	544800	4164900	2.56E-03	1.58E-05	3.66679E-07	5.23828E-09	5.23828E-08
659 168	GRID GRID	544800 545250	4164900 4165000	2.56E-03 2.58E-03	1.58E-05 5.12E-05	3.66679E-07	5.23828E-09	5.23828E-08
151	GRID	545300	4164950	2.65E-03	6.93E-05	3.74896E-07 3.86976E-07	5.35565E-09 5.52824E-09	5.35565E-08 5.52824E-08
482	GRID	545050	4164000	2.65E-03	7.61E-05	3.87943E-07	5.54205E-09	5.54205E-08
496	GRID	545100	4164050	2.65E-03	1.16E-04	3.93556E-07	5.62222E-09	5.62222E-08
162 510	GRID GRID	544950 545150	4165000 4164100	2.67E-03 2.63E-03	1.76E-05	3.82788E-07	5.4684E-09	5.4684E-08
525	GRID	545200	4164150	2.60E-03	1.87E-04 3.14E-04	4.00557E-07 4.15467E-07	5.72224E-09 5.93525E-09	5.72224E-08 5.93525E-08
167	GRID	545200	4165000	2.76E-03	4.41E-05	3.9923E-07	5.70329E-09	5.70329E-08
540	GRID	545250	4164200	2.58E-03	5.82E-04	4.50467E-07	6.43525E-09	6.43525E-08
150	GRID	545250	4164950	2.89E-03	6.08E-05	4.20617E-07	6.00882E-09	6.00882E-08
166 163	GRID GRID	545150 545000	4165000 4165000	2.89E-03 2.92E-03	3.76E-05 2.20E-05	4.17315E-07 4.18274E-07	5.96165E-09	5.96165E-08
618	GRID	544650	4164750	2.98E-03	2.79E-05	4.2861E-07	5.97535E-09 6.123E-09	5.97535E-08 6.123E-08
165	GRID	545100	4165000	2.98E-03	3.19E-05	4.29188E-07	6.13125E-09	6.13125E-08
164	GRID	545050	4165000	3.00E-03	2.69E-05	4.31641E-07	6.1663E-09	6.1663E-08
553 143	grid Grid	545300 544900	4164250 4164950	2.54E-03 3.07E-03	1.47E-03 1.61E-05	5.7094E-07	8.15628E-09	8.15628E-08
149	GRID	545200	4164950	3.14E-03	5.19E-05	4.39616E-07 4.5422E-07	6.28023E-09 6.48886E-09	6.28023E-08 6.48886E-08
524	GRID	545150	4164150	3.05E-03	2.55E-04	4.70435E-07	6.7205E-09	6.7205E-08
539	GRID	545200	4164200	3.00E-03	4.39E-04	4.90338E-07	7.00483E-09	7.00483E-08
88 509	GRID GRID	544950 545100	4163950 4164100	3.14E-03 3.12E-03	5.30E-05	4.54371E-07	6.49102E-09	6.49102E-08
138	GRID	545250	4164900	3.21E-03	1.61E-04 7.33E-05	4.66633E-07 4.66766E-07	6.66618E-09 6.66808E-09	6.66618E-08 6.66808E-08
495	GRID	545050	4164050	3.18E-03	1.07E-04	4.68355E-07	6.69079E-09	6.69079E-08
552	GRID	545250	4164250	2.94E-03	8.91E-04	5.45115E-07	7.78736E-09	7.78736E-08
668 481	grid Grid	545250 545000	4164900 4164000	3.21E-03	7.33E-05	4.66766E-07	6.66808E-09	6.66808E-08
148	GRID	545150	4164950	3.27E-03 3.36E-03	7.35E-05 4.38E-05	4.7631E-07 4.84755E-07	6.80443E-09 6.92507E-09	6.80443E-08 6.92507E-08
632	GRID	544750	4164800	3.38E-03	2.34E-05	4.85011E-07	6.92873E-09	6.92873E-08
130	GRID	544850	4164900	3.47E-03	1.67E-05	4.96733E-07	7.09618E-09	7.09618E-08
607	GRID	544600	4164700	3.45E-03	3.20E-05	4.95749E-07	7.08212E-09	7.08212E-08
660 144	grid grid	544850 544950	4164900 4164950	3.47E-03 3.49E-03	1.67E-05 1.93E-05	4.96733E-07 5.00279E-07	7.09618E-09 7.14684E-09	7.09618E-08
137	GRID	545200	4164900	3.54E-03	6.23E-05	5.12731E-07	7.32473E-09	7.14684E-08 7.32473E-08
147	GRID	545100	4164950	3.54E-03	3.68E-05	5.09102E-07	7.27289E-09	7.27289E-08
667	GRID	545200	4164900	3.54E-03	6.23E-05	5.12731E-07	7.32473E-09	7.32473E-08
646 551	GRID GRID	544800 545200	4164850 4164250	3.56E-03 3.43E-03	1.90E-05 6.20E-04	5.09735E-07	7.28193E-09	7.28193E-08
538	GRID	545150	4164200	3.54E-03	3.44E-04	5.76287E-07 5.52833E-07	8.23267E-09 7.89762E-09	8.23267E-08 7.89762E-08
146	GRID	545050	4164950	3.67E-03	3.04E-05	5.27212E-07	7.5316E-09	7.5316E-08
	GRID	545000	4164950	3.67E-03	2.43E-05	5.26346E-07	7.51923E-09	7.51923E-08
	GRID GRID	545100 545250	4164150 4164300	3.65E-03 3.29E-03	2.14E-04	5.50222E-07	7.86031E-09	7.86031E-08
	GRID	545050	4164100	3.76E-03	1.38E-03 1.43E-04	6.64874E-07 5.55896E-07	9.4982E-09 7.94138E-09	9.4982E-08 7.94138E-08
	GRID	545150	4164900	3.90E-03	5.19E-05	5.61966E-07	8.02808E-09	8.02808E-08
	GRID	545150	4164900	3.90E-03	5.19E-05	5.61966E-07	8.02808E-09	8.02808E-08
	GRID	545200	4164850	3.96E-03	7.62E-05	5.74925E-07	8.21322E-09	8.21322E-08
	GRID GRID	545200 545000	4164850 4164050	3.96E-03 4.01E-03	7.62E-05 9.97E-05	5.74925E-07 5.84603E-07	8.21322E-09	8.21322E-08
	GRID	544900	4163950	4.07E-03	5.18E-05	5.87292E-07	8.35147E-09 8.38989E-09	8.35147E-08 8.38989E-08
	GRID	545200	4164300	3.90E-03	8.91E-04	6.81381E-07	9.73401E-09	9.73401E-08
	GRID	544700	4164750	4.16E-03	2.87E-05	5.96691E-07	8.52416E-09	8.52416E-08
	grid Grid	545100 545150	4164900	4.23E-03	4.29E-05	6.0822E-07	8.68885E-09	8.68885E-08
	GRID	545150 545100	4164250 4164900	4.07E-03 4.23E-03	4.63E-04 4.29E-05	6.45839E-07 6.0822E-07	9.22626E-09 8.68885E-09	9.22626E-08
	GRID	544900	4164900	4.30E-03	1.84E-05	6.14236E-07	8.7748E-09	8.68885E-08 8.7748E-08
661	GRID	544900	4164900	4.30E-03	1.84E-05	6.14236E-07	8.7748E-09	8.7748E-08
	GRID	545100	4164200	4.25E-03	2.81E-04	6.45326E-07	9.21894E-09	9.21894E-08
480	GRID	544950	4164000	4.34E-03	7.09E-05	6.28044E-07	8.97206E-09	8.97206E-08

Receptor	Type	UTME	UTMN	Annual ( DPM GLC	µg/m3) DPM GLC	Canaar Blak	Cancer Biele	Company Dist.
Neceptor	iype	OTME	UTIMIN	from construction		Cancer Risk (70 Yr Exposure)	Cancer Risk (1 Yr Exposure)	Cancer Risk (1 Yr Exposure adjusted by ASF)
119	GRID	545200	4164800	4.38E-03	9.52E-05	6.37848E-07	9.11211E-09	9.11211E-08
641	GRID	545200	4164800	4.38E-03	9.52E-05	6.37848E-07	9.11211E-09	9.11211E-08
125 522	GRID GRID	545150 545050	4164850	4.47E-03	6.29E-05	6.45916E-07	9.22737E-09	9.22737E-08
653	GRID	545050 545150	4164150 4164850	4.43E-03 4.47E-03	1.84E-04 6.29E-05	6.56867E-07	9.38381E-09	9.38381E-08
134	GRID	545050	4164900	4.52E-03	3.47E-05	6.45916E-07 6.48248E-07	9.22737E-09 9.26069E-09	9.22737E-08 9.26069E-08
664	GRID	545050	4164900	4.52E-03	3.47E-05	6.48248E-07	9.26069E-09	9.26069E-08
132	GRID	544950	4164900	4.67E-03	2.17E-05	6.68573E-07	9.55104E-09	9.55104E-08
662	GRID	544950	4164900	4.67E-03	2.17E-05	6.68573E-07	9.55104E-09	9.55104E-08
133 663	GRID GRID	545000 545000	4164900	4.70E-03	2.72E-05	6.72521E-07	9.60744E-09	9.60744E-08
608	GRID	544650	4164900 4164700	4.70E-03 4.72E-03	2.72E-05 3.38E-05	6.72521E-07 6.76631E-07	9.60744E-09 9.66616E-09	9.60744E-08
571	GRID	545200	4164350	4.32E-03	1.40E-03	8.14413E-07	1.16345E-08	9.66616E-08 1.16345E-07
112	GRID	545200	4164750	4.76E-03	1.23E-04	6.95612E-07	9.93732E-09	9.93732E-08
507	GRID	545000	4164100	4.76E-03	1.29E-04	6.96491E-07	9.94988E-09	9.94988E-08
628	GRID	545200	4164750	4.76E-03	1.23E-04	6.95612E-07	9.93732E-09	9.93732E-08
561 600	grid Grid	545150 544600	4164300	4.67E-03	6.42E-04	7.56888E-07	1.08127E-08	1.08127E-07
124	GRID	544800	4164650 4164850	4.90E-03 5.01E-03	3.92E-05 5.11E-05	7.02761E-07	1.00394E-08	1.00394E-07
652	GRID	545100	4164850	5.01E-03	5.11E-05	7.20289E-07 7.20289E-07	1.02898E-08 1.02898E-08	1.02898E-07 1.02898E-07
549	GRID	545100	4164250	4.92E-03	3.69E-04	7.52825E-07	1.07546E-08	1.07546E-07
118	GRID	545150	4164800	5.05E-03	7.80E-05	7.30469E-07	1.04353E-08	1.04353E-07
640	GRID	545150	4164800	5.05E-03	7.80E-05	7.30469E-07	1.04353E-08	1.04353E-07
536	GRID	545050	4164200	5.16E-03	2.36E-04	7.68851E-07	1.09836E-08	1.09836E-07
647 493	grid Grid	544850 544950	4164850 4164050	5.28E-03 5.43E-03	1.98E-05 9.26E-05	7.53872E-07	1.07696E-08	1.07696E-07
123	GRID	545050	4164850	5.54E-03	4.01E-05	7.86413E-07 7.94787E-07	1.12345E-08 1.13541E-08	1.12345E-07 1.13541E-07
521	GRID	545000	4164150	5.50E-03	1.63E-04	8.05964E-07	1.15138E-08	1.15138E-07
651	GRID	545050	4164850	5.54E-03	4.01E-05	7.94787E-07	1.13541E-08	1.13541E-07
570	GRID	545150	4164350	5.28E-03	1.01E-03	8.95435E-07	1.27919E-08	1.27919E-07
633 111	GRID GRID	544800 545150	4164800	5.63E-03	2.35E-05	8.0509E-07	1.15013E-08	1.15013E-07
627	GRID	545150	4164750 4164750	5.63E-03 5.63E-03	9.97E-05 9.97E-05	8.15938E-07 8.15938E-07	1.16563E-08	1.16563E-07
117	GRID	545100	4164800	5.85E-03	6.20E-05	8.42267E-07	1.16563E-08 1.20324E-08	1.16563E-07 1.20324E-07
560	GRID	545100	4164300	5.70E-03	4.99E-04	8.82321E-07	1.26046E-08	1.26046E-07
639	GRID	545100	4164800	5.85E-03	6.20E-05	8.42267E-07	1.20324E-08	1.20324E-07
122	GRID	545000	4164850	6.05E-03	3.10E-05	8.6638E-07	1.23769E-08	1.23769E-07
650	GRID GRID	545000 545050	4164850	6.05E-03	3.10E-05	8.6638E-07	1.23769E-08	1.23769E-07
548 106	GRID	545050 545150	4164250 4164700	6.05E-03 6.14E-03	3.02E-04 1.32E-04	9.05026E-07 8.9347E-07	1.29289E-08	1.29289E-07
616	GRID	545150	4164700	6.14E-03	1.32E-04	8.9347E-07	1.27639E-08 1.27639E-08	1.27639E-07 1.27639E-07
506	GRID	544950	4164100	6.32E-03	1.18E-04	9.16813E-07	1.30973E-08	1.30973E-07
120	GRID	544900	4164850	6.37E-03	2.17E-05	9.09415E-07	1.29916E-08	1.29916E-07
648	GRID	544900	4164850	6.37E-03	2.17E-05	9.09415E-07	1.29916E-08	1.29916E-07
121 649	grid Grid	544950 544950	4164850 4164850	6.41E-03	2.51E-05	9.16243E-07	1.30892E-08	1.30892E-07
535	GRID	545000	4164200	6.41E-03 6.41E-03	2.51E-05 2.04E-04	9.16243E-07 9.41668E-07	1.30892E-08	1.30892E-07
479	GRID	544900	4164000	6.52E-03	6.76E-05	9.38127E-07	1.34524E-08 1.34018E-08	1.34524E-07 1.34018E-07
594	GRID	544600	4164600	6.57E-03	4.95E-05	9.41891E-07	1.34556E-08	1.34556E-07
110	GRID	545100	4164750	6.72E-03	7.77E-05	9.68091E-07	1.38299E-08	1.38299E-07
626	GRID	545100	4164750	6.72E-03	7.77E-05	9.68091E-07	1.38299E-08	1.38299E-07
	GRID	545050	4164800	6.74E-03	4.74E-05	9.66954E-07	1.38136E-08	1.38136E-07
620 638	grid Grid	544750 545050	4164750 4164800	6.77E-03 6.74E-03	2.92E-05	9.67524E-07	1.38218E-08	1.38218E-07
		545100	4164350	6.61E-03	4.74E-05 8.19E-04	9.66954E-07 1.05783E-06	1.38136E-08 1.51118E-08	1.38136E-07 1.51118E-07
	GRID	544650	4164650	6.94E-03	4.19E-05	9.94684E-07	1.42098E-08	1.42098E-07
	GRID	545150	4164450	6.41E-03	1.95E-03	1.19014E-06	1.7002E-08	1.7002E-07
	GRID	545150	4164500	6.77E-03	7.88E-04	1.07549E-06	1.53641E-08	1.53641E-07
	GRID	544950	4164150	7.10E-03	1.47E-04	1.03187E-06	1.4741E-08	1.4741E-07
	grid Grid	545050 544700	4164300 4164700	7.17E-03 7.30E-03	4.07E-04	1.07829E-06	1.54041E-08	1.54041E-07
	GRID	545100	4164700	7.55E-03	3.55E-05 1.01E-04	1.04447E-06 1.08872E-06	1.4921E-08 1.55532E-08	1.4921E-07
	GRID	545100	4164700	7.55E-03	1.01E-04	1.08872E-06	1.55532E-08	1.55532E-07 1.55532E-07
547	GRID	545000	4164250	7.61E-03	2.57E-04	1.12033E-06	1.60046E-08	1.60046E-07
	GRID	545000	4164800	7.75E-03	3.68E-05	1.10804E-06	1.58291E-08	1.58291E-07
	GRID	545000	4164800	7.75E-03	3.68E-05	1.10804E-06	1.58291E-08	1.58291E-07
	GRID GRID	545050	4164750	8.04E-03	5.83E-05	1.1523E-06	1.64614E-08	1.64614E-07
		545050 544950	4164750 4164200	8.04E-03 8.19E-03	5.83E-05 1.82E-04	1.1523E-06	1.64614E-08	1.64614E-07
		544900	4164050	8.28E-03	8.63E-05	1.19205E-06 1.19115E-06	1.70292E-08 1.70164E-08	1.70292E-07 1.70164E-07
		544600	4164550	8.32E-03	6.21E-05	1.19404E-06	1.70576E-08	1.70164E-07 1.70576E-07
	GRID	544600	4164200	8.61E-03	9.70E-05	1.2402E-06	1.77172E-08	1.77172E-07
	GRID	545050	4164350	8.57E-03	7.27E-04	1.32351E-06	1.89073E-08	1.89073E-07
114	GRID	544950	4164800	8.86E-03	3.02E-05	1.26555E-06	1.80792E-08	1.80792E-07

	Annual (µg/m3)										
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk			
636	GRID	544950	4164800	from construction 8.86E-03	3.02E-05	(70 Yr Exposure) 1.26555E-06	(1 Yr Exposure) 1.80792E-08	(1 Yr Exposure adjusted by ASF) 1.80792E-07			
579	GRID	545100	4164450	8.32E-03	1.76E-03	1.43631E-06	2.05187E-08	2.05187E-07			
505	GRID	544900	4164100	8.99E-03	1.08E-04	1.29558E-06	1.85083E-08	1.85083E-07			
515 586	GRID GRID	544600 545100	4164150	9.06E-03	8.50E-05	1.30188E-06	1.85982E-08	1.85982E-07			
593	GRID	545100	4164500 4164550	8.84E-03 8.95E-03	7.35E-04 3.73E-04	1.3628E-06 1.32704E-06	1.94685E-08 1.89577E-08	1.94685E-07			
542	GRID	544600	4164250	9.08E-03	1.09E-04	1.30851E-06	1.8693E-08	1.89577E-07 1.8693E-07			
104	GRID	545050	4164700	9.35E-03	7.61E-05	1.3418E-06	1.91686E-08	1.91686E-07			
614	GRID	545050	4164700	9.35E-03	7.61E-05	1.3418E-06	1.91686E-08	1.91686E-07			
558 519	GRID GRID	545000 544900	4164300 4164150	9.33E-03 9.57E-03	3.48E-04 1.32E-04	1.37739E-06 1.38149E-06	1.96771E-08 1.97356E-08	1.96771E-07			
554	GRID	544600	4164300	9.62E-03	1.18E-04	1.38582E-06	1.97356E-08	1.97356E-07 1.97974E-07			
595	GRID	544650	4164600	9.62E-03	5.33E-05	1.37658E-06	1.96654E-08	1.96654E-07			
108	GRID	545000	4164750	9.70E-03	4.56E-05	1.38816E-06	1.98309E-08	1.98309E-07			
624 581	GRID GRID	545000 544600	4164750 4164500	9.70E-03	4.56E-05	1.38816E-06	1.98309E-08	1.98309E-07			
634	GRID	544850	4164800	9.77E-03 9.84E-03	7.50E-05 2.43E-05	1.40186E-06 1.40414E-06	2.00266E-08 2.00591E-08	2.00266E-07 2.00591E-07			
113	GRID	544900	4164800	9.97E-03	2.62E-05	1.42343E-06	2.03347E-08	2.03347E-07			
635	GRID	544900	4164800	9.97E-03	2.62E-05	1.42343E-06	2.03347E-08	2.03347E-07			
546	GRID	544950	4164250	9.95E-03	2.29E-04	1.44918E-06	2.07025E-08	2.07025E-07			
564 572	GRID GRID	544600 544600	4164350 4164400	9.99E-03 1.02E-02	1.17E-04 1.05E-04	1.43957E-06	2.05653E-08	2.05653E-07			
574	GRID	544600	4164450	1.02E-02	8.82E-05	1.4695E-06 1.46711E-06	2.09929E-08 2.09588E-08	2.09929E-07 2.09588E-07			
102	GRID	545050	4164650	1.06E-02	1.08E-04	1.52058E-06	2.17226E-08	2.17226E-07			
606	GRID	545050	4164650	1.06E-02	1.08E-04	1.52058E-06	2.17226E-08	2.17226E-07			
503	GRID	544600 544900	4164100	1.09E-02	7.31E-05	1.56637E-06	2.23768E-08	2.23768E-07			
533 602	grid Grid	544900 544700	4164200 4164650	1.09E-02 1.14E-02	1.62E-04 4.46E-05	1.5759E-06	2.25128E-08	2.25128E-07			
101	GRID	545050	4164600	1.15E-02	1.70E-04	1.62887E-06 1.66576E-06	2.32695E-08 2.37966E-08	2.32695E-07 2.37966E-07			
599	GRID	545050	4164600	1.15E-02	1.70E-04	1.66576E-06	2.37966E-08	2.37966E-07			
103	GRID	545000	4164700	1.18E-02	5.98E-05	1.69441E-06	2.42058E-08	2.42058E-07			
613 567	GRID GRID	545000 545000	4164700 4164350	1.18E-02 1.18E-02	5.98E-05	1.69441E-06	2.42058E-08	2.42058E-07			
578	GRID	545050	4164450	1.14E-02	6.27E-04 1.58E-03	1.76249E-06 1.8536E-06	2.51784E-08 2.64799E-08	2.51784E-07 2.64799E-07			
107	GRID	544950	4164750	1.20E-02	3.76E-05	1.70709E-06	2.4387E-08	2.4387E-07			
623	GRID	544950	4164750	1.20E-02	3.76E-05	1.70709E-06	2.4387E-08	2.4387E-07			
592 585	GRID	545050	4164550	1.21E-02	3.02E-04	1.76369E-06	2.51956E-08	2.51956E-07			
589	grid Grid	545050 544650	4164500 4164550	1.21E-02 1.26E-02	6.15E-04 6.90E-05	1.81143E-06 1.8098E-06	2.58776E-08 2.58542E-08	2.58776E-07			
557	GRID	544950	4164300	1.29E-02	3.14E-04	1.87636E-06	2.68052E-08	2.58542E-07 2.68052E-07			
530	GRID	544650	4164200	1.34E-02	1.07E-04	1.92608E-06	2.75155E-08	2.75155E-07			
518	GRID	544850	4164150	1.36E-02	1.20E-04	1.95332E-06	2.79045E-08	2.79045E-07			
610 504	GRID GRID	544750 544850	4164700 4164100	1.38E-02 1.38E-02	3.67E-05 9.88E-05	1.96682E-06	2.80974E-08	2.80974E-07			
543	GRID	544650	4164250	1.40E-02	1.23E-04	1.98516E-06 2.00452E-06	2.83595E-08 2.86361E-08	2.83595E-07 2.86361E-07			
605	GRID	545000	4164650	1.40E-02	8.35E-05	1.99884E-06	2.85548E-08	2.85548E-07			
490	GRID	544600	4164050	1.40E-02	6.22E-05	2.00847E-06	2.86925E-08	2.86925E-07			
545 491	grid Grid	544900 544850	4164250	1.41E-02	2.05E-04	2.03509E-06	2.90727E-08	2.90727E-07			
555	GRID	544650 544650	4164050 4164300	1.43E-02 1.46E-02	8.02E-05 1.38E-04	2.04906E-06 2.10173E-06	2.92723E-08	2.92723E-07			
565	GRID	544650	4164350	1.52E-02	1.42E-04	2.17829E-06	3.00247E-08 3.11184E-08	3.00247E-07 3.11184E-07			
582	GRID	544650	4164500	1.52E-02	8.66E-05	2.18308E-06	3.11868E-08	3.11868E-07			
622	GRID	544900	4164750	1.54E-02	3.28E-05	2.19126E-06	3.13037E-08	3.13037E-07			
532 573	grid Grid	544850 544650	4164200 4164400	1.54E-02 1.55E-02	1.47E-04 1.27E-04	2.20756E-06	3.15366E-08	3.15366E-07			
612	GRID	544950	4164700	1.55E-02	4.89E-05	2.22052E-06 2.21574E-06	3.17217E-08 3.16535E-08	3.17217E-07 3.16535E-07			
575	GRID	544650	4164450	1.55E-02	1.05E-04	2.22688E-06	3.18126E-08	3.18126E-07			
598	GRID	545000	4164600	1.58E-02	1.26E-04	2.27426E-06	3.24895E-08	3.24895E-07			
516	GRID	544650	4164150	1.63E-02	9.08E-05	2.33262E-06	3.33232E-08	3.33232E-07			
591 596	GRID GRID	545000 544700	4164550 4164600	1.72E-02 1.74E-02	2.09E-04 5.78E-05	2.48254E-06 2.48636E-06	3.54649E-08 3.55194E-08	3.54649E-07			
	GRID	544950	4164350	1.76E-02	5.39E-04	2.5802E-06	3.686E-08	3.55194E-07 3.686E-07			
577	GRID	545000	4164450	1.73E-02	1.25E-03	2.64692E-06	3.78131E-08	3.78131E-07			
584	GRID	545000	4164500	1.79E-02	4.27E-04	2.61179E-06	3.73113E-08	3.73113E-07			
604 556	grid Grid	544950 544900	4164650 4164300	1.94E-02 2.04E-02	6.68E-05	2.76652E-06	3.95218E-08	3.95218E-07			
	GRID	544900	4164300	2.04E-02 2.09E-02	2.81E-04 1.11E-04	2.94917E-06 2.99782E-06	4.2131E-08 4.28261E-08	4.2131E-07 4.28261E-07			
	GRID	544850	4164750	2.12E-02	3.07E-05	3.02757E-06	4.3251E-08	4.26261E-07 4.3251E-07			
	GRID	544900	4164700	2.17E-02	4.28E-05	3.09901E-06	4.42715E-08	4.42715E-07			
	GRID	544800	4164200	2.29E-02	1.36E-04	3.28338E-06	4.69054E-08	4.69054E-07			
	GRID GRID	544950 544850	4164600 4164250	2.31E-02 2.45E-02	9.52E-05 1.86E-04	3.30929E-06	4.72756E-08	4.72756E-07			
	GRID	544950	4164550	2.45E-02 2.65E-02	1.43E-04	3.51236E-06 3.79142E-06	5.01766E-08 5.41631E-08	5.01766E-07 5.41631E-07			
	GRID	544900	4164650	2.89E-02	5.70E-05	4.12778E-06	5.89682E-08	5.89682E-07			

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				Annual (	µg/m3)			
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Cancer Risk	Cancer Risk	Cancer Risk
				from construction	from Haul truck	(70 Yr Exposure)	(1 Yr Exposure)	(1 Yr Exposure adjusted by ASF)
583	GRID	544950	4164500	2.89 <b>E-</b> 02	2.47E-04	4.15482E-06	5.93546E-08	5.93546E-07
576	GRID	544950	4164450	3.09E-02	5.59E-04	4.48448E-06	6.40639E-08	6.40639E-07
								6.40639E-07

Sample Calculation:

At the receptor (#576), which has the highest cancer risk:

Cancer = [(3.09E-2 + 5.59E-4)) x 1.1 x 302 x 365 x 3 x 0.00001] / 25550 [70 years exposure] =

Cancer ={ [(3.09E-02 + 5.59E-4) x 1.1 x 302 x 365 x 3 x 0.00001] / 25550} x (1/70) [1 years exposure] =

Cancer ={  $\{(3.09E-2 + 5.59E-4) \times 1.1 \times 302 \times 365 \times 3 \times 0.00001\} / 25550\} \times (1/70) \times 10$  [1 Year exposure for infants] =

Table B2. Chronic index, Acute Index and Pl	12.5 Calculation from ISCST and HARP Output Files	- Shap Park Wetland Restoration Project
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				Annual (		1-hr (u		Chronic			
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC	Acrolein GLC	Index	Acute Index	Annuai ( PM2.5 GLC	PM2.5 GLC
400	GRID	545550	4162650	from construction 6.74E-05	from Haul truck 1.46E-06	from construction 2.82E-06	from Haul truck 3.78E-07	Hic 5.44E-06	Hia 4.67E-04	from construction	
402	GRID	545450	4162750	6.97E-05	1.62E-06	2.85E-06	2.95E-07	5.64E-06	4.59E-04	8.00E-05 8.00E-05	0.00E+00 0.00E+00
406	GRID	545400	4162800	7.12E-05	1.88E-06	2.84E-06	2.48E-07	5.77E-06	4.51E-04	8.00E-05	0.00E+00
401 403	GRID GRID	545550 545500	4162700 4162750	7.23E-05 7.37E-05	1.53E-06 1.58E-06	2.94E-06	3.99E-07	5.83E-06	4.88E-04	9.00E-05	0.00E+00
403	GRID	545450	4162800	7.55E-05	1.70E-06	2.99E-06 3.02E-06	3.60E-07 3.13E-07	5.95E-06 6.09E-06	4.90E-04 4.87E-04	9.00E-05 9.00E-05	0.00E+00
412	GRID	545400	4162850	7.72E-05	1.98E-06	3.04E-06	2.66E-07	6.26E-06	4.83E-04	9.00E-05	0.00E+00 0.00E+00
404	GRID	545550	4162750	7.75E-05	1.61E-06	3.05E-06	4.23E-07	6.26E-06	5.07E-04	9.00E-05	0.00E+00
408 405	GRID GRID	545500 545600	4162800 4162750	7.95E-05 8.10E-05	1.66E-06 1.69E-06	3.12E-06	3.86E-07	6.41E-06	5.12E-04	9.00E-05	0.00E+00
413	GRID	545450	4162850	8.15E-05	1.80E-06	3.02E-06 3.18E-06	4.67E-07 3.37E-07	6.53E-06 6.59E-06	5.09E-04 5.13E-04	1.00E-04 1.00E-04	0.00E+00 0.00E+00
409	GRID	545550	4162800	8.32E-05	1.70E-06	3.13E-06	4.49E-07	6.71E-06	5.23E-04	1.00E-04	0.00E+00
418	GRID	545400	4162900	8.39E-05	2.09E-06	3.22E-06	2.84E-07	6.80E-06	5.12E-04	1.00E-04	0.00E+00
414 410	GRID GRID	545500 545600	4162850 4162800	8.57E-05 8.66E-05	1.75E-06 1.80E-06	3.23E-06 3.06E-06	4.10E-07 4.91E-07	6.91E-06	5.31E-04	1.00E-04	0.00E+00
424	GRID	545350	4162950	8.66E-05	2.59E-06	3.25E-06	3.13E-07	6.98E-06 7.05E-06	5.19E-04 5.21E-04	1.00E-04 1.00E-04	0.00E+00 0.00E+00
419	GRID	545450	4162900	8.84E-05	1.90E-06	3.31E-06	3.60E-07	7.13E-06	5.36E-04	1.00E-04	0.00E+00
411 415	GRID GRID	545650 545550	4162800 4162850	8.93E-05 8.93E-05	1.90E-06	2.90E-06	4.93E-07	7.21E-06	4.96E-04	1.10E-04	0.00E+00
431	GRID	545300	4162850	8.95E-05	1.81E-06 3.29E-06	3.20E-06 3.27E-06	4.78E-07 4.96E-07	7.20E-06 7.34E-06	5.37E-04 5.50E-04	1.10E-04	0.00E+00
425	GRID	545400	4162950	9.13E-05	2.21E-06	3.38E-06	3.05E-07	7.39E-06	5.38E-04	1.10E-04 1.10E-04	0.00E+00 0.00E+00
420	GRID	545500	4162900	9.24E-05	1.86E-06	3.31E-06	4.38E-07	7.44E-06	5.49E-04	1.10E-04	0.00E+00
416 432	grid Grid	545600 545350	4162850 4163000	9.24E-05 9.46E-05	1.91E-06 2.77E-06	3.08E-06 3.44E-06	5.14E-07	7.46E-06	5.25E-04	1.10E-04	0.00E+00
417	GRID	545650	4162850	9.50E-05	2.03E-06	2.87E-06	3.37E-07 5.06E-07	7.70E-06 7.67E-06	5.52E-04 4.93E-04	1.10E-04 1.10E-04	0.00E+00 0.00E+00
426	GRID	545450	4162950	9.57E-05	2.01E-06	3.44E-06	3.86E-07	7.72E-06	5.57E-04	1.10E-04	0.00E+00
421	GRID	545550	4162900	9.59E-05	1.93E-06	3.24E-06	5.06E-07	7.73E-06	5.47E-04	1.10E-04	0.00E+00
422 427	grid Grid	545600 545500	4162900 4162950	9.88E-05 9.95E-05	2.05E-06 1.98E-06	3.07E-06 3.38E-06	5.40E-07 4.70E-07	7.98E-06	5.27E-04	1.20E-04	0.00E+00
433	GRID	545400	4163000	9.93E-05	2.35E-06	3.51E-06	3.29E-07	8.03E-06 8.04E-06	5.64E-04 5.62E-04	1.20E-04 1.20E-04	0.00E+00 0.00E+00
423	GRID	545650	4162900	1.01E-04	2.18E-06	2.81E-06	5.19E-07	8.18E-06	4.86E-04	1.20E-04	0.00E+00
428 434	GRID GRID	545550 545450	4162950 4163000	1.03E-04 1.04E-04	2.06E-06	3.27E-06	5.38E-07	8.31E-06	5.55E-04	1.20E-04	0.00E+00
445	GRID	545450 545350	4163050	1.04E-04	2.13E-06 2.96E-06	3.54E-06 3.61E-06	4.12E-07 3.63E-07	8.36E-06 8.42E-06	5.75E-04 5.80E-04	1.20E-04	0.00E+00
429	GRID	545600	4162950	1.06E-04	2.20E-06	3.04E-06	5.64E-07	8.54E-06	5.26E-04	1.20E-04 1.20E-04	0.00E+00 0.00E+00
435	GRID	545500	4163000	1.08E-04	2.11E-06	3.44E-06	5.01E-07	8.67E-06	5.76E-04	1.30E-04	0.00E+00
430 446	GRID GRID	545650 545400	4162950 4163050	1.08E-04 1.08E-04	2.34E-06 2.51E-06	2.72E-06	5.32E-07	8.72E-06	4.74E-04	1.30E-04	0.00E+00
436	GRID	545550	4163000	1.11E-04	2.21E-06	3.64E-06 3.26E-06	3.52E-07 5.71E-07	8.76E-06 8.94E-06	5.84E-04 5.60E-04	1.30E-04 1.30E-04	0.00E+00 0.00E+00
447	GRID	545450	4163050	1.13E-04	2.28E-06	3.61E-06	4.44E-07	9.08E-06	5.92E-04	1.30E-04	0.00E+00
437	GRID	545600	4163000	1.14E-04	2.37E-06	2.97E-06	5.90E-07	9.16E-06	5.20E-04	1.30E-04	0.00E+00
458 438	grid Grid	545350 545650	4163100 4163000	1.14E-04 1.15E-04	3.19E-06 2.52E-06	3.77E-06 2.59E-06	3.91E-07 5.40E-07	9.23E-06	6.06E-04	1.30E-04	0.00E+00
448	GRID	545500	4163050	1.16E-04	2.27E-06	3.48E-06	5.38E-07	9.32E-06 9.38E-06	4.57E-04 5.86E-04	1.40E-04 1.40E-04	0.00E+00 0.00E+00
439	GRID	545700	4163000	1.17E-04	2.68E-06	2.40E-06	4.31E-07	9.42E-06	4.13E-04	1.40E-04	0.00E+00
444 443	grid Grid	545950 545900	4163000	1.16E-04	4.14E-06	1.41E-06	4.20E-07	9.49E-06	2.68E-04	1.40E-04	0.00E+00
443	GRID	545900 545750	4163000 4163000	1.16E-04 1.17E-04	3.79E-06 2.86E-06	1.62E-06 2.16E-06	3.94E-07 2.95E-07	9.50E-06 9.48E-06	2.95E-04	1.40E-04	0.00E+00
442	GRID	545850	4163000	1.17E-04	3.43E-06	1.80E-06	3.37E-07	9.50E-06	3.59E-04 3.12E-04	1.40E-04 1.40E-04	0.00E+00 0.00E+00
441	GRID	545800	4163000	1.17E-04	3.11E-06	1.92E-06	2.66E-07	9.50E-06	3.20E-04	1.40E-04	0.00E+00
459 449	grid Grid	545400 545550	4163100 4163050	1.18E-04 1.20E-04	2.70E-06	3.77E-06	3.78E-07	9.56E-06	6.04E-04	1.40E-04	0.00E+00
450	GRID	545600	4163050	1.22E-04	2.39E-06 2.57E-06	3.23E-06 2.88E-06	6.05E-07 6.13E-07	9.64E-06 9.84E-06	5.60E-04 5.10E-04	1.40E-04 1.40E-04	0.00E+00 0.00E+00
460	GRID	545450	4163100	1.23E-04	2.45E-06	3.67E-06	4.78E-07	9.88E-06	6.06E-04	1.40E-04	0.00E+00
451	GRID	545650 545950	4163050	1.24E-04	2.74E-06	2.56E-06	5.45E-07	9.98E-06	4.53E-04	1.50E-04	0.00E+00
457 456	grid Grid	545950 545900	4163050 4163050	1.23E-04 1.23E-04	4.56E-06 4.22E-06	1.29E-06 1.52E-06	4.41E-07 4.33E-07	1.01E-05	2.52E-04	1.50E-04	0.00E+00
455	GRID	545850	4163050	1.24E-04	3.82E-06	1.73E-06	3.84E-07	1.01E-05 1.01E-05	2.86E-04 3.10E-04	1.50E-04 1.50E-04	0.00E+00 0.00E+00
452	GRID	545700	4163050	1.24E-04	2.92E-06	2.34E-06	4.15E-07	1.01E-05	4.03E-04	1.50E-04	0.00E+00
453 454	grid Grid	545750 545800	4163050 4163050	1.24E-04 1.24E-04	3.14E-06 3.45E-06	2.06E-06	2.69E-07	1.01E-05	3.40E-04	1.50E-04	0.00E+00
470	GRID	545350	4163150	1.25E-04	3.44E-06	1.91E-06 3.90E-06	3.11E-07 4.25E-07	1.01E-05 1.01E-05	3.24E-04 6.31E-04	1.50E-04 1.50E-04	0.00E+00
461	GRID	545500	4163100	1.26E-04	2.44E-06	3.48E-06	5.77E-07	1.02E-05	5.93E-04	1.50E-04	0.00E+00 0.00E+00
462 471		545550	4163100	1.29E-04	2.60E-06	3.16E-06	6.45E-07	1.04E-05	5.56E-04	1.50E-04	0.00E+00
4/1 463		545400 545600	4163150 4163100	1.30E-04 1.31E-04	2.90E-06 2.80E-06	3.87E-06 2.74E-06	4.07E-07 6.39E-07	1.05E-05	6.22E-04	1.50E-04	0.00E+00
469	GRID	545900	4163100	1.31E-04	4.68E-06	1.40E-06	4.67E-07	1.06E-05 1.07E-05	4.93E-04 2.72E-04	1.50E-04 1.50E-04	0.00E+00 0.00E+00
468	GRID	545850	4163100	1.32E-04	4.26E-06	1.64E-06	4.33E-07	1.08E-05	3.03E-04	1.60E-04	0.00E+00
		545650 545800	4163100 4163100	1.32E-04 1.32E-04	2.99E-06 3.84E-06	2.52E-06 1.86E-06	5.45E-07	1.07E-05	4.48E-04	1.60E-04	0.00E+00
		545700	4163100	1.33E-04	3.20E-06	2.25E-06	3.63E-07 3.94E-07	1.08E-05 1.08E-05	3.24E-04 3.86E-04	1.60E-04 1.60E-04	0.00E+00
		545750	4163100	1.33E-04	3.47E-06	2.01E-06	2.79E-07	1.08E-05	3.35E-04	1.60E-04	0.00E+00 0.00E+00
		545450	4163150	1.34E-04	2.64E-06	3.71E-06	5.14E-07	1.08E-05	6.18E-04	1.60E-04	0.00E+00
		545500 545550	4163150 4163150	1.37E-04 1.40E-04	2.65E-06	3.44E-06	6.18E-07	1.11E-05	5.95E-04	1.60E-04	0.00E+00
		545600	4163150	1.40E-04	2.84E-06 3.06E-06	3.06E-06 2.70E-06	6.84E-07 6.60E-07	1.13E-05 1.14E-05	5.47E-04 4.91E-04	1.70E-04 1.70E-04	0.00E+00 0.00E+00
478	GRID	545750	4163150	1.42E-04	3.87E-06	1.98E-06	3.31E-07	1.15E-05	3.37E-04	1.70E-04	0.00E+00
		545650	4163150	1.42E-04	3.29E-06	2.45E-06	5.40E-07	1.15E-05	4.37E-04	1.70E-04	0.00E+00
		545700 544650	4163150 4165600	1.42E-04 2.85E-04	3.54E-06 4.46E-06	2.13E-06 1.15E-05	3.68E-07 4.38E-07	1.15E-05	3.64E-04	1.70E-04	0.00E+00
362	GRID	544650	4165550	3.03E-04	4.48E-06 4.53E-06	1.15E-05	4.38E-07 4.54E-07	2.29E-05 2.43E-05	1.74E-03 1.85E-03	3.40E-04 3.60E-04	0.00E+00 0.00E+00
382	GRID	544700	4165600	3.18E-04	5.04E-06	9.90E-06	5.11E-07	2.56E-05	1.52E-03	3.80E-04	0.00E+00
		544650 544700	4165500 4165550	3.23E-04 3.41E-04	4.63E-06	1.30E-05	5.27E-07	2.59E-05	1.97E-03	3.80E-04	0.00E+00
		544650	4165450	3.41E-04 3.45E-04	5.11E-06 4.78E-06	1.07E-05 1.37E-05	5.04E-07 5.95E-07	2.73E-05 2.77E-05	1.64E-03 2.09E-03	4.00E-04 4.10E-04	0.00E+00
383	GRID	544750	4165600	3.56E-04	5.70E-06	1.08E-05	5.56E-07	2.85E-05	1.66E-03	4.10E-04 4.20E-04	0.00E+00 0.00E+00
		544700	4165500	3.65E-04	5.19E-06	1.16E-05	4.91E-07	2.93E-05	1.77E-03	4.30E-04	0.00E+00
		544650 545650	4165400 4163650	3.72E-04 3.69E-04	4.97E-06 1.42E-05	1.45E-05 3.84E-06	6.50E-07	2.97E-05	2.22E-03	4.40E-04	0.00E+00
		544750	4165550	3.81E-04	5.81E-06	1.14E-05	1.13E-06 5.66E-07	3.04E-05 3.06E-05	7.28E-04 1.75E-03	4.40E-04 4.50E-04	0.00E+00 0.00E+00
											0.002 100

Table B2. Chronic index, Acute index and PM2.5 Calculation from ISCST and HARP Output Files - Shap Park Wetland Restoration Project	Table B2. Chronic Index	, Acute Index and PM2.5 Calculation from ISC	ST and HARP Output Files - Sh	ap Park Wetland Restoration Project
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				Annual (		1-hr (u		Chronic	Acute	Annual (	ua/m3)
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC from construction	Acrolein GLC	Index	Index	PM2.5 GLC	PM2.5 GLC
1	GRID	545600	4163650	3.81E-04	1.23E-05	3.97E-06	9.79E-07	Hic 3.11E-05	Hta 7.21E-04	from construction 4.50E-04	from Haul truck 0.00E+00
384	GRID	544800		3.92E-04	6.38E-06	1.31E-05	5.92E-07	3.15E-05	1.99E-03	4.60E-04	0.00E+00
325 286	GRID GRID	544700 544650	4165450 4165350	3.94E-04 4.01E-04	5.29E-06 5.24E-06	1.26E-05 1.53E-05	5.14E-07	3.15E-05	1.92E-03	4.60E-04	0.00E+00
345	GRID	544750	4165500	4.12E-04	5.92E-06	1.21E-05	6.86E-07 5.71E-07	3.21E-05 3.30E-05	2.34E-03 1.84E-03	4.70E-04 4.90E-04	0.00E+00 0.00E+00
11	GRID	545650	4163700	4.12E-04	1.75E-05	3.87E-06	1.19E-06	3.39E-05	7.40E-04	4.90E-04	0.00E+00
365 306	GRID GRID	544800 544700	4165550 4165400	4.23E-04	6.57E-06	1.38E-05	6.11E-07	3.39E-05	2.11E-03	5.00E-04	0.00E+00
385	GRID	544850	4165600	4.25E-04 4.27E-04	5.45E-06 6.99E-06	1.37E-05 1.36E-05	6.00E-07 5.82E-07	3.40E-05 3.43E-05	2.09E-03 2.07E-03	5.00E-04 5.00E-04	0.00E+00 0.00E+00
10	GRID	545600	4163700	4.25E-04	1.54E-05	4.07E-06	1.24E-06	3.49E-05	7.77E-04	5.00E-04	0.00E+00
28 267	GRID GRID	545750 544650	4163750	4.25E-04	2.03E-05	3.71E-06	6.03E-07	3.53E-05	6.29E-04	5.00E-04	0.00E+00
9	GRID	545550	4165300 4163700	4.34E-04 4.43E-04	5.58E-06 1.31E-05	1.61E-05 4.30E-06	6.99E-07 8.51E-07	3.48E-05 3.60E-05	2.45E-03 7.51E-04	5.10E-04 5.20E-04	0.00E+00 0.00E+00
27	GRID	545700	4163750	4.41E-04	2.11E-05	3.74E-06	9.03E-07	3.66E-05	6.76E-04	5.20E-04	0.00E+00
326 48	GRID GRID	544750 545800	4165450 4163800	4.45E-04 4.52E-04	6.02E-06	1.28E-05	5.66E-07	3.57E-05	1.95E-03	5.30E-04	0.00E+00
346	GRID	544800	4165500	4.52E-04 4.59E-04	2.39E-05 6.76E-06	4.10E-06 1.47E-05	3.65E-07 6.18E-07	3.77E-05 3.68E-05	6.50E-04 2.23E-03	5.30E-04 5.40E-04	0.00E+00 0.00E+00
386	GRID	544900	4165600	4.59E-04	7.58E-06	1.23E-05	5.11E-07	3.68E-05	1.87E-03	5.40E-04	0.00E+00
8 287	GRID GRID	545500 544700	4163700 4165350	4.59E-04 4.61E-04	1.14E-05	4.49E-06	1.51E-06	3.72E-05	8.77E-04	5.40E-04	0.00E+00
26	GRID		4163350	4.59E-04	5.66E-06 2.13E-05	1.49E-05 3.80E-06	6.78E-07 1.17E-06	3.69E-05 3.79E-05	2.27E-03 7.28E-04	5.40E-04 5.40E-04	0.00E+00 0.00E+00
366	GRID	544850	4165550	4.63E-04	7.30E-06	1.44E-05	6.21E-07	3.71E-05	2.19E-03	5.50E-04	0.00E+00
248 47	GRID GRID	544650 545750	4165250	4.72E-04	6.03E-06	1.69E-05	7.25E-07	3.79E-05	2.57E-03	5.60E-04	0.00E+00
7	GRID	545750	4163800 4163700	4.70E-04 4.76E-04	2.43E-05 1.04E-05	4.00E-06 4.66E-06	3.86E-07 1.52E-06	3.91E-05 3.85E-05	6.40E-04 9.01E-04	5.60E-04 5.60E-04	0.00E+00
25	GRID	545600	4163750	4.76E-04	1.98E-05	3.97E-06	1.49E-06	3.92E-05	7.97E-04	5.60E-04	0.00E+00 0.00E+00
307	GRID	544750	4165400	4.85E-04	6.16E-06	1.35E-05	5.51E-07	3.88E-05	2.06E-03	5.70E-04	0.00E+00
387 46	GRID GRID	544950 545700	4165600 4163800	4.87E-04 4.90E-04	8.22E-06 2.50E-05	1.10E-05 3.93E-06	6.08E-07 7.91E-07	3.92E-05 4.07E-05	1.69E-03 6.89E-04	5.80E-04 5.80E-04	0.00E+00
6	GRID	545400	4163700	4.94E-04	1.15E-05	4.69E-06	1.17E-06	4.00E-05	8.57E-04	5.80E-04	0.00E+00 0.00E+00
327	GRID	544800	4165450	4.99E-04	6.93E-06	1.56E-05	6.37E-07	4.00E-05	2.37E-03	5.90E-04	0.00E+00
367 24	GRID GRID	544900 545550	4165550 4163750	4.99E-04 4.96E-04	7.98E-06 1.66E-05	1.29E-05 4.20E-06	5.69E-07 1.17E-06	4.00E-05	1.97E-03	5.90E-04	0.00E+00
268	GRID	544700	4165300	5.03E-04	5.95E-06	1.61E-05	7.38E-07	4.06E-05 4.03E-05	7.84E-04 2.46E-03	5.90E-04 5.90E-04	0.00E+00 0.00E+00
67	GRID	545800	4163850	4.96E-04	2.97E-05	4.59E-06	3.84E-07	4.16E-05	7.28E-04	5.90E-04	0.00E+00
347 5	GRID GRID	544850 545350	4165500 4163700	5.03E-04 5.12E-04	7.60E-06 1.35E-05	1.51E-05 4.62E-06	6.58E-07 1.49E-06	4.04E-05	2.31E-03	5.90E-04	0.00E+00
45	GRID	545650	4163800	5.10E-04	2.60E-05	4.02E-06 3.90E-06	1.11E-06	4.16E-05 4.24E-05	8.90E-04 7.32E-04	6.00E-04 6.00E-04	0.00E+00 0.00E+00
229	GRID	544650	4165200	5.16E-04	6.60E-06	1.76E-05	8.43E-07	4.14E-05	2.70E-03	6.10E-04	0.00E+00
388 23	GRID GRID	545000 545500	4165600 4163750	5.19E-04 5.19E-04	9.00E-06	8.36E-06	7.18E-07	4.17E-05	1.33E-03	6.10E-04	0.00E+00
66	GRID	545500	4163850	5.19E-04	1.41E-05 3.02E-05	4.49E-06 4.49E-06	1.59E-06 4.44E-07	4.21E-05 4.34E-05	8.88E-04 7.21E-04	6.10E-04 6.10E-04	0.00E+00 0.00E+00
4	GRID	545300	4163700	5.28E-04	1.42E-05	4.36E-06	1.54E-06	4.28E-05	8.65E-04	6.20E-04	0.00E+00
288 368	GRID	544750	4165350	5.32E-04	6.32E-06	1.44E-05	5.90E-07	4.25E-05	2.19E-03	6.30E-04	0.00E+00
44	GRID GRID	544950 545600	4165550 4163800	5.32E-04 5.32E-04	8.69E-06 2.55E-05	1.13E-05 3.93E-06	6.08E-07 1.58E-06	4.28E-05 4.41E-05	1.74E-03 8.03E-04	6.30E-04 6.30E-04	0.00E+00
3	GRID	545250	4163700	5.39E-04	1.46E-05	5.31E-06	1.46E-06	4.37E-05	9.89E-04	6.40E-04	0.00E+00 0.00E+00
22	GRID	545450	4163750	5.43E-04	1.27E-05	4.85E-06	1.75E-06	4.40E-05	9.61E-04	6.40E-04	0.00E+00
348 308	grid Grid	544900 544800	4165500 4165400	5.45E-04 5.48E-04	8.40E-06 7.10E-06	1.36E-05 1.67E-05	6.24E-07 6.45E-07	4.37E-05 4.38E-05	2.08E-03 2.53E-03	6.40E-04	0.00E+00
65	GRID	545700	4163850	5.43E-04	3.07E-05	4.39E-06	5.11E-07	4.53E-05	7.14E-04	6.50E-04 6.40E-04	0.00E+00 0.00E+00
389	GRID	545050	4165600	5.50E-04	9.88E-06	9.21E-06	7.91E-07	4.42E-05	1.46E-03	6.50E-04	0.00E+00
328 86	grid Grid	544850 545800	4165450 4163900	5.52E-04 5.43E-04	7.90E-06 3.80E-05	1.60E-05 5.18E-06	6.84E-07 4.38E-07	4.42E-05	2.44E-03	6.50E-04	0.00E+00
249	GRID	544700	4165250	5.54E-04	6.35E-06	1.74E-05	7.72E-07	4.60E-05 4.42E-05	8.19E-04 2.65E-03	6.40E-04 6.50E-04	0.00E+00 0.00E+00
43	GRID	545550	4163800	5.59E-04	2.19E-05	4.03E-06	1.62E-06	4.59E-05	8.24E-04	6.60E-04	0.00E+00
369 21	GRID GRID	545000 545400	4165550 4163750	5.68E-04 5.70E-04	9.52E-06 1.41E-05	8.82E-06 5.18E-06	7.25E-07 1.34E-06	4.56E-05 4.62E-05	1.39E-03	6.70E-04	0.00E+00
64	GRID	545650	4163850	5.68E-04	3.18E-05	4.26E-06	1.07E-06	4.74E-05	9.52E-04 7.80E-04	6.70E-04 6.70E-04	0.00E+00 0.00E+00
85	GRID	545750	4163900	5.70E-04	3.89E-05	5.12E-06	4.57E-07	4.82E-05	8.13E-04	6.70E-04	0.00E+00
390 269	grid grid	545100 544750	4165600 4165300	5.81E-04 5.85E-04	1.09E-05	9.18E-06	7.96E-07	4.68E-05	1.46E-03	6.90E-04	0.00E+00
349	GRID	544950	4165500	5.85E-04	6.56E-06 9.17E-06	1.54E-05 1.16E-05	6.91E-07 6.05E-07	4.67E-05 4.69E-05	2.35E-03 1.78E-03	6.90E-04 6.90E-04	0.00E+00 0.00E+00
42	GRID	545500	4163800	5.88E-04	1.81E-05	4.23E-06	1.61E-06	4.78E-05	8.53E-04	6.90E-04	0.00E+00
20 329	GRID GRID	545350 544900	4163750	5.99E-04	1.64E-05	5.44E-06	1.72E-06	4.86E-05	1.05E-03	7.10E-04	0.00E+00
63	GRID	545600	4165450 4163850	5.99E-04 5.97E-04	8.82E-06 3.28E-05	1.43E-05 4.16E-06	6.78E-07 1.57E-06	4.81E-05 4.97E-05	2.19E-03 8.39E-04	7.10E-04 7.00E-04	0.00E+00 0.00E+00
289	GRID	544800	4165350	6.03E-04	7.28E-06	1.78E-05	6.39E-07	4.83E-05	2.70E-03	7.10E-04	0.00E+00
370	GRID	545050	4165550	6.03E-04	1.05E-05	9.84E-06	8.17E-07	4.85E-05	1.56E-03	7.10E-04	0.00E+00
309 84	grid Grid	544850 545700	4165400 4163900	6.08E-04 5.99E-04	8.20E-06 3.96E-05	1.70E-05 5.02E-06	7.02E-07 5.56E-07	4.87E-05 5.05E-05	2.59E-03 8.14E-04	7.20E-04	0.00E+00
230		544700	4165200	6.12E-04	6.87E-06	1.88E-05	7.72E-07	4.89E-05	2.85E-03	7.10E-04 7.20E-04	0.00E+00 0.00E+00
391		545150	4165600	6.14E-04	1.21E-05	1.13E-05	7.20E-07	4.95E-05	1.76E-03	7.20E-04	0.00E+00
41 350	GRID GRID	545450 545000	4163800 4165500	6.19E-04 6.25E-04	1.58E-05 1.01E-05	4.56E-06 9.74E-06	2.03E-06	5.01E-05	9.60E-04	7.30E-04	0.00E+00
19		545300	4163750	6.25E-04	1.69E-05	5.61E-06	7.36E-07 1.65E-06	5.02E-05 5.07E-05	1.53E-03 1.06E-03	7.40E-04 7.40E-04	0.00E+00 0.00E+00
62	GRID	545550	4163850	6.28E-04	3.00E-05	4.13E-06	2.12E-06	5.20E-05	9.11E-04	7.40E-04	0.00E+00
83 371		545650 545100	4163900 4165550	6.32E-04	4.06E-05	4.89E-06	7.02E-07	5.31E-05	8.17E-04	7.50E-04	0.00E+00
250		545100 544750	4165550 4165250	6.39E-04 6.48E-04	1.16E-05 6.89E-06	1.05E-05 1.65E-05	8.38E-07 7.80E-07	5.15E-05 5.18E-05	1.65E-03 2.53E-03	7.50E-04 7.60E-04	0.00E+00
330	GRID	544950	4165450	6.45E-04	9.79E-06	1.19E-05	6.03E-07	5.18E-05	2.53E-03 1.82E-03	7.60E-04 7.60E-04	0.00E+00 0.00E+00
392		545200	4165600	6.45E-04	1.32E-05	1.24E-05	6.03E-07	5.21E-05	1.90E-03	7.60E-04	0.00E+00
18 40		545250 545400	4163750 4163800	6.50E-04 6.54E-04	1.72E-05 1.76E-05	5.54E-06 4.98E-06	1.55E-06	5.27E-05	1.04E-03	7.70E-04	0.00E+00
310		544900	4165400	6.63E-04	9.35E-06	4.982-06 1.51E-05	1.56E-06 7.31E-07	5.32E-05 5.32E-05	9.54E-04 2.31E-03	7.70E-04 7.80E-04	0.00E+00 0.00E+00
351		545050	4165500	6.66E-04	1.12E-05	1.05E-05	8.40E-07	5.35E-05	1.65E-03	7.90E-04	0.00E+00
61 270		545500 544800	4163850 4165300	6.63E-04 6.70E-04	2.41E-05 7.50E-06	4.13E-06 1.91E-05	1.49E-06	5.43E-05	8.22E-04	7.80E-04	0.00E+00
17		545200	4163750	6.70E-04	1.74E-05	6.07E-06	6.21E-07 1.40E-06	5.36E-05 5.43E-05	2.89E-03 1.09E-03	7.90E-04 7.90E-04	0.00E+00 0.00E+00
290		544850	4165350	6.74E-04	8.49E-06	1.81E-05	7.18E-07	5.39E-05	2.75E-03	8.00E-04	0.00E+00

Table B2. Chronic index, Acute index and PM2.5 Calculation from ISCST and HARP Out	utput Files - Shap Park Wetland Restoration Project
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				Annual (			M	-		10340	
Receptor	Туре	UTME	UTMN	Annual ( DPM GLC	DPM GLC	1-hr (u Acrolein GLC	g/m3) Acroiein GLC	Chronic index	Acute Index	Annual ( PM2.5 GLC	ug/m3) PM2.5 GLC
82	GRID	545600	4163900			from construction	from Haul truck	Hic	Hla	from construction	from Haul truck
372	GRID	545600	4165550	6.68E-04 6.77E-04	4.22E-05 1.29E-05	4.95E-06 1.25E-05	1.50E-06 7.70E-07	5.60E-05 5.45E-05	9.41E-04 1.94E-03	7.90E-04	0.00E+00
211	GRID	544700	4165150	6.81E-04	7.54E-06	2.01E-05	8.90E-07	5.45E-05	3.07E-03	8.00E-04 8.00E-04	0.00E+00 0.00E+00
393	GRID	545250	4165600	6.79E-04	1.44E-05	1.20E-05	6.94E-07	5.47E-05	1.85E-03	8.00E-04	0.00E+00
16 331	GRID GRID	545150 545000	4163750 4165450	6.86E-04 6.92E-04	1.69E-05 1.08E-05	6.56E-06 1.07E-05	1.15E-06 7.41E-07	5.55E-05	1.13E-03	8.10E-04	0.00E+00
39	GRID	545350	4163800	6.94E-04	2.04E-05	5.51E-06	1.98E-06	5.56E-05 5.65E-05	1.67E-03 1.09E-03	8.20E-04 8.20E-04	0.00E+00 0.00E+00
15	GRID	545100	4163750	6.97E-04	1.65E-05	6.62E-06	1.06E-06	5.64E-05	1.12E-03	8.20E-04	0.00E+00
12 14	GRID GRID		4163750 4163750	7.01E-04 7.03E-04	1.77E-05 1.66E-05	1.18E-05	1.01E-06	5.69E-05	1.87E-03	8.30E-04	0.00E+00
60	GRID	545450	4163850	7.03E-04	2.02E-05	7.48E-06 4.26E-06	1.05E-06 2.40E-06	5.70E-05 5.72E-05	1.24E-03 9.72E-04	8.30E-04 8.30E-04	0.00E+00 0.00E+00
13	GRID	545000	4163750	7.08E-04	1.71E-05	1.01E-05	1.04E-06	5.72E-05	1.62E-03	8.30E-04	0.00E+00
352 394	GRID GRID	545100 545300	4165500 4165600	7.08E-04 7.08E-04	1.24E-05 1.55E-05	1.20E-05	8.79E-07	5.70E-05	1.88E-03	8.40E-04	0.00E+00
373	GRID	545200	4165550	7.14E-04	1.41E-05	1.05E-05 1.31E-05	7.54E-07 6.29E-07	5.71E-05 5.75E-05	1.64E-03 2.00E-03	8.40E-04 8.40E-04	0.00E+00 0.00E+00
81	GRID	545550	4163900	7.06E-04	4.22E-05	5.15E-06	2.26E-06	5.91E-05	1.08E-03	8.30E-04	0.00E+00
311 231	GRID GRID	544950 544750	4165400 4165200	7.19E-04 •7.23E-04	1.04E-05 7.34E-06	1.22E-05	6.65E-07	5.76E-05	1.87E-03	8.50E-04	0.00E+00
395	GRID	545350	4165600	7.32E-04	1.67E-05	1.78E-05 8.30E-06	8.43E-07 7.54E-07	5.78E-05 5.92E-05	2.72E-03 1.32E-03	8.50E-04 8.60E-04	0.00E+00 0.00E+00
38	GRID	545300	4163800	7.37E-04	2.05E-05	6.07E-06	1.76E-06	5.98E-05	1.14E-03	8.70E-04	0.00E+00
291 332	GRID GRID	544900 545050	4165350 4165450	7.41E-04 7.41E-04	9.79E-06	1.59E-05	7.72E-07	5.93E-05	2.43E-03	8.70E-04	0.00E+00
251	GRID	544800	4165250	7.50E-04	1.19E-05 7.77E-06	1.10E-05 2.06E-05	8.64E-07 6.86E-07	5.95E-05 5.99E-05	1.74E-03 3.11E-03	8.70E-04 8.90E-04	0.00E+00 0.00E+00
374	GRID	545250	4165550	7.48E-04	1.54E-05	1.21E-05	7.23E-07	6.04E-05	1.87E-03	8.80E-04	0.00E+00
353 59	grid Grid	545150 545400	4165500	7.50E-04	1.38E-05	1.37E-05	8.22E-07	6.04E-05	2.11E-03	8.90E-04	0.00E+00
271	GRID	545400	4163850 4165300	7.50E-04 7.55E-04	2.28E-05 8.78E-06	4.49E-06 1.93E-05	1.82E-06 7.33E-07	6.11E-05 6.03E-05	9.23E-04 2.92E-03	8,90E-04	0.00E+00
396	GRID	545400	4165600	7.52E-04	1.77E-05	6.00E-06	6.94E-07	6.09E-05	9.79E-04	8.90E-04 8.90E-04	0.00E+00 0.00E+00
80	GRID	545500	4163900	7.50E-04	3.43E-05	5.38E-06	2.21E-06	6.20E-05	1.11E-03	8.90E-04	0.00E+00
193 397	GRID GRID	544700 545450	4165100 4165600	7.66E-04 7.66E-04	8.39E-06 1.88E-05	2.15E-05 5.90E-06	1.00E-06 6.16E-07	6.11E-05	3.29E-03 9.54E-04	9.00E-04	0.00E+00
312	GRID	545000	4165400	7.75E-04	1.15E-05	1.16E-05	7.44E-07	6.20E-05 6.21E-05	9.54E-04 1.81E-03	9.00E-04 9.10E-04	0.00E+00 0.00E+00
398	GRID	545500	4165600	7.70E-04	1.98E-05	6.66E-06	5.27E-07	6.25E-05	1.05E-03	9.10E-04	0.00E+00
399 375	GRID GRID	545550 545300	4165600 4165550	7.70E-04 7.79E-04	2.08E-05 1.68E-05	7.02E-06 1.01E-05	4.96E-07 7.85E-07	6.25E-05	1.10E-03	9.10E-04	0.00E+00
37	GRID	545250	4163800	7.79E-04	2.09E-05	6.56E-06	1.67E-06	6.29E-05 6.33E-05	1.59E-03 1.20E-03	9.20E-04 9.20E-04	0.00E+00 0.00E+00
333	GRID	545100	4165450	7.90E-04	1.33E-05	1.35E-05	9.24E-07	6.35E-05	2.11E-03	9.30E-04	0.00E+00
354 79	GRID GRID	545200 545450	4165500 4163900	7.92E-04 8.01E-04	1.52E-05 2.73E-05	1.36E-05 5.57E-06	6.76E-07	6.38E-05	2.08E-03	9.30E-04	0.00E+00
100	GRID	545550	4163950	7.90E-04	5.96E-05	5.87E-06	2.95E-06 2.15E-06	6.54E-05 6.72E-05	1.24E-03 1.17E-03	9.40E-04 9.30E-04	0.00E+00 1.00E-05
292	GRID	544950	4165350	8.06E-04	1.10E-05	1.24E-05	7.41E-07	6.46E-05	1,92E-03	9.50E-04	0.00E+00
376 58	GRID GRID	545350 545350	4165550 4163850	8.04E-04 8.04E-04	1.80E-05 2.58E-05	7.64E-06	7.85E-07	6.49E-05	1.23E-03	9.50E-04	0.00E+00
212	GRID	544750	4165150	8.17E-04	7.95E-06	4.92E-06 1.92E-05	2.23E-06 8.69E-07	6.55E-05 6.52E-05	1.05E-03 2.93E-03	9.50E-04 9.60E-04	0.00E+00 0.00E+00
36	GRID	545200	4163800	8.21E-04	2.07E-05	6.85E-06	1.49E-06	6.65E-05	1.22E-03	9.70E-04	0.00E+00
377 380	GRID GRID	545400 545550	4165550 4165550	8.21E-04	1.92E-05	5.84E-06	7.15E-07	6.64E-05	9.57E-04	9.70E-04	0.00E+00
313	GRID	545550	4165550	8.24E-04 8.30E-04	2.28E-05 1.28E-05	7.35E-06 1.26E-05	5.40E-07 8.85E-07	6.69E-05 6.66E-05	1.15E-03 1.96E-03	9.70E-04 9.80E-04	0.00E+00
355	GRID	545250	4165500	8.28E-04	1.67E-05	1.20E-05	7.54E-07	6.68E-05	1.86E-03	9.80E-04	0.00E+00 0.00E+00
378 379	GRID	545450	4165550	8.30E-04	2.04E-05	6.79E-06	6.34E-07	6.72E-05	1.08E-03	9.80E-04	0.00E+00
272	grid Grid	545500 544900	4165550 4165300	8.30E-04 8.35E-04	2.16E-05 1.02E-05	7.28E-06 1.67E-05	5.35E-07 8.04E-07	6.73E-05 6.68E-05	1.14E-03 2.56E-03	9.80E-04 9.80E-04	0.00E+00
334	GRID	545150	4165450	8.39E-04	1.48E-05	1.46E-05	8.77E-07	6.74E-05	2.27E-03	9.90E-04	0.00E+00 0.00E+00
232	GRID	544800	4165200	8.48E-04	8.14E-06	2.23E-05	8.09E-07	6.77E-05	3.38E-03	1.00E-03	0.00E+00
252 99	grid Grid	544850 545500	4165250 4163950	8.53E-04 8.46E-04	9.08E-06 5.37E-05	2.06E-05 6.23E-06	7.31E-07 3.44E-06	6.80E-05 7.11E-05	3.11E-03	1.01E-03	0.00E+00
356	GRID	545300	4165500	8.59E-04	1.82E-05	9.54E-06	8.19E-07	6.94E-05	1.41E-03 1.51E-03	1.00E-03 1.01E-03	1.00E-05 0.00E+00
35	GRID	545150	4163800	8.59E-04	2.02E-05	6.82E-06	1.20E-06	6.96E-05	1.17E-03	1.02E-03	0.00E+00
78 175	grid Grid	545400 544700	4163900 4165050	8.59E-04 8.66E-04	3.08E-05 9.44E-06	5.80E-06 2.29E-05	2.30E-06	7.03E-05	1.18E-03	1.01E-03	0.00E+00
57	GRID	545300	4163850	8.64E-04	2.57E-05	5.54E-06	1.05E-06 1.89E-06	6.92E-05 7.02E-05	3.49E-03 1.09E-03	1.02E-03 1.02E-03	0.00E+00 0.00E+00
293	GRID	545000	4165350	8.73E-04	1.23E-05	1.26E-05	7.44E-07	6.99E-05	1.95E-03	1.03E-03	0.00E+00
361 335	GRID GRID	545550 545200	4165500 4165450	8.79E-04 8.84E-04	2.49E-05 1.64E-05	7.80E-06	5.87E-07	7.15E-05	1.23E-03	1.04E-03	0.00E+00
357	GRID	545350	4165500	8.81E-04	1.96E-05	1.38E-05 6.89E-06	7.31E-07 8.17E-07	7.11E-05 7.13E-05	2.13E-03 1.12E-03	1.04E-03 1.04E-03	0.00E+00 0.00E+00
314	GRID	545100	4165400	8.88E-04	1.43E-05	1.51E-05	9.68E-07	7.13E-05	2.34E-03	1.05E-03	0.00E+00
360 358	GRID GRID	545500 545400	4165500 4165500	8.93E-04 8.95E-04	2.35E-05	7.74E-06	5.43E-07	7.24E-05	1.21E-03	1.05E-03	0.00E+00
34	GRID	545100	4163800	8.97E-04	2.09E-05 2.01E-05	6.82E-06 7.12E-06	7.41E-07 1.13E-06	7.24E-05 7.26E-05	1.11E-03 1.20E-03	1.06E-03 1.06E-03	0.00E+00 0.00E+00
655	GRID	544600	4164900	8.99E-04	1.62E-05	1.63E-05	1.00E-06	7.24E-05	2.53E-03	1.06E-03	0.00E+00
359 273	grid Grid	545450 544950	4165500 4165300	8.99E-04	2.23E-05	7.54E-06	6.52E-07	7.28E-05	1.19E-03	1.06E-03	0.00E+00
98		545450	4163950	9.13E-04 9.08E-04	1.18E-05 3.93E-05	1.26E-05 6.62E-06	8.14E-07 3.71E-06	7.31E-05 7.49E-05	1.96E-03 1.51E-03	1.08E-03 1.07E-03	0.00E+00
336	GRID	545250	4165450	9.22E-04	1.81E-05	1.16E-05	7.88E-07	7.43E-05	1.82E-03	1.09E-03	0.00E+00 0.00E+00
194		544750	4165100	9.30E-04	8.75E-06	2.10E-05	9.32E-07	7.43E-05	3.21E-03	1.10E-03	0.00E+00
56 77		545250 545350	4163850 4163900	9.28E-04 9.26E-04	2.59E-05 3.35E-05	6.36E-06 6.00E-06	1.81E-06 2.46E-06	7.55E-05	1.19E-03	1.10E-03	0.00E+00
33	GRID	545050	4163800	9.33E-04	2.06E-05	7.21E-06	2.46E-06 1.12E-06	7.59E-05 7.54E-05	1.24E-03 1.22E-03	1.09E-03 1.10E-03	0.00E+00 0.00E+00
294		545050	4165350	9.39E-04	1.38E-05	1.46E-05	9.05E-07	7.53E-05	2.26E-03	1.11E-03	0.00E+00
342 315		545550 545150	4165450 4165400	9.37E-04 9.42E-04	2.73E-05 1.61E-05	8.33E-06 1.54E-05	6.37E-07	7.62E-05	1.31E-03	1.11E-03	0.00E+00
253		544900	4165250	9.50E-04	1.08E-05	1.54E-05 1.76E-05	9.39E-07 8.22E-07	7.57E-05 7.59E-05	2.39E-03 2.69E-03	1.11E-03 1.12E-03	0.00E+00 0.00E+00
337	GRID	545300	4165450	9.50E-04	1.98E-05	8.82E-06	8.58E-07	7.67E-05	1.41E-03	1.12E-03	0.00E+00
341 213		545500 544800	4165450 4165150	9.59E-04	2.59E-05	8.13E-06	5.58E-07	7.78E-05	1.27E-03	1.13E-03	0.00E+00
32		545000	4163800	9.68E-04 9.66E-04	8.67E-06 2.16E-05	2.43E-05 1.03E-05	9.13E-07 1.10E-06	7.73E-05 7.80E-05	3.68E-03 1.66E-03	1.14E-03 1.14E-03	0.00E+00 0.00E+00
233	GRID	544850	4165200	9.73E-04	9.44E-06	2.21E-05	7.10E-07	7.76E-05	3.33E-03	1.14E-03	0.00E+00
		545350	4165450	9.70E-04	2.13E-05	6.82E-06	8.53E-07	7.83E-05	1.12E-03	1.14E-03	0.00E+00
340 339		545450 545400	4165450 4165450	9.73E-04 9.77E-04	2.44E-05 2.29E-05	8.13E-06 7.74E-06	6.71E-07 7.67E-07	7.88E-05 7.90E-05	1.28E-03 1.24E-03	1.15E-03 1.15E-03	0.00E+00 0.00E+00
									,.272-00	1.102-03	0.002700

				Annual (		1-hr (u		Chronic	Acute	Annual (	ua/m3)
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC	Acrolein GLC	Index	Index	PM2.5 GLC	PM2.5 GLC
157	GRID	544700	4165000	from construction 9.88E-04	from Haul truck 1.09E-05	from construction 2.43E-05	from Haul truck 1.02E-06	Hic 7 DOE OF	HIa 3 705 03	from construction	
97	GRID	545400	4163950	9.79E-04	4.41E-05	7.12E-06	3.31E-06	7.90E-05 8.10E-05	3.70E-03 1.52E-03	1.17E-03 1.16E-03	0.00E+00 0.00E+00
274	GRID	545000	4165300	9.93E-04	1.32E-05	1.35E-05	7.41E-07	7.95E-05	2.08E-03	1.17E-03	0.00E+00
316	GRID	545200	4165400	9.91E-04	1.78E-05	1.38E-05	7.91E-07	7.97E-05	2.14E-03	1.17E-03	0.00E+00
31 29	GRID GRID	544950 544850	4163800 4163800	9.97E-04 9.99E-04	2.27E-05 2.35E-05	1.23E-05 1.83E-05	1.06E-06 9.19E-07	8.07E-05 8.08E-05	1.95E-03	1.18E-03	0.00E+00
55	GRID	545200	4163850	9.99E-04	2.56E-05	7.31E-06	1.58E-06	8.11E-05	2.80E-03 1.30E-03	1.18E-03 1.18E-03	0.00E+00 0.00E+00
323	GRID	545550	4165400	9.97E-04	3.02E-05	8.59E-06	6.86E-07	8.12E-05	1.35E-03	1.18E-03	0.00E+00
295	GRID	545100	4165350	1.01E-03	1.54E-05	1.65E-05	1.02E-06	8.07E-05	2.55E-03	1.19E-03	0.00E+00
76 30	GRID GRID	545300 544900	4163900 4163800	1.01E-03 1.01E-03	3.33E-05 2.34E-05	6.20E-06 1.39E-05	2.07E-06 9.89E-07	8.21E-05	1.21E-03	1.19E-03	0.00E+00
317	GRID	545250	4165400	1.03E-03	1.97E-05	1.11E-05	8.25E-07	8.19E-05 8.29E-05	2.18E-03 1.74E-03	1.19E-03 1.21E-03	0.00E+00 0.00E+00
322	GRID	545500	4165400	1.03E-03	2.87E-05	8.75E-06	6.11E-07	8.35E-05	1.37E-03	1.21E-03	0.00E+00
254 321	grid Grid	544950 545450	4165250	1.05E-03	1.25E-05	1.40E-05	8.79E-07	8.37E-05	2.18E-03	1.23E-03	0.00E+00
318	GRID	545300	4165400 4165400	1.05E-03 1.06E-03	2.70E-05 2.16E-05	8.49E-06 7.97E-06	6.89E-07 9.00E-07	8.53E-05 8.51E-05	1.34E-03 1.30E-03	1.24E-03	0.00E+00
296	GRID	545150	4165350	1.07E-03	1.74E-05	1.59E-05	1.00E-06	8.56E-05	2.47E-03	1.24E-03 1.26E-03	0.00E+00 0.00E+00
304	GRID	545550	4165350	1.06E-03	3.36E-05	8.62E-06	7.38E-07	8.65E-05	1.37E-03	1.25E-03	0.00E+00
319 320	GRID GRID	545350 545400	4165400 4165400	1.07E-03 1.07E-03	2.35E-05 2.52E-05	7.90E-06 8.49E-06	8.90E-07	8.62E-05	1.28E-03	1.26E-03	0.00E+00
656	GRID	544650	4164900	1.07E-03	1.59E-05	2.31E-05	7.93E-07 9.86E-07	8.62E-05 8.58E-05	1.35E-03 3.52E-03	1.26E-03 1.26E-03	0.00E+00 0.00E+00
275	GRID	545050	4165300	1.07E-03	1.49E-05	1.67E-05	9.19E-07	8.59E-05	2.57E-03	1.27E-03	0.00E+00
176	GRID	544750	4165050	1.08E-03	9.79E-06	2.36E-05	1.09E-06	8.58E-05	3.60E-03	1.27E-03	0.00E+00
96 54	GRID GRID	545350 545150	4163950 4163850	1.07E-03 1.08E-03	4.59E-05 2.54E-05	7.64E-06 8.20E-06	2.64E-06 1.25E-06	8.78E-05	1.50E-03	1.26E-03	0.00E+00
234	GRID	544900	4165200	1.09E-03	1.13E-05	1.85E-05	8.51E-07	8.70E-05 8.73E-05	1.38E-03 2.82E-03	1.27E-03 1.29E-03	0.00E+00 0.00E+00
75	GRID	545250	4163900	1.10E-03	3.34E-05	6.39E-06	1.98E-06	8.94E-05	1.22E-03	1.30E-03	0.00E+00
303	GRID	545500	4165350	1.10E-03	3.18E-05	9.12E-06	6.65E-07	8.95E-05	1.43E-03	1.30E-03	0.00E+00
297 195	GRID GRID	545200 544800	4165350 4165100	1.12E-03 1.12E-03	1.94E-05 9.35E-06	1.36E-05 2.66E-05	8.58E-07 9.73E-07	8.98E-05 8.95E-05	2.11E-03	1.32E-03	0.00E+00
214	GRID	544850	4165150	1.13E-03	9.97E-06	2.37E-05	8.14E-07	8.98E-05	4.02E-03 3.59E-03	1.33E-03 1.33E-03	0.00E+00 0.00E+00
489	GRID	545400	4164000	1.11E-03	6.95E-05	6.95E-06	4.83E-06	9.35E-05	1.72E-03	1.31E-03	1.00E-05
285	GRID	545550	4165300	1.13E-03	3.75E-05	9.08E-06	7.91E-07	9.20E-05	1.44E-03	1.33E-03	0.00E+00
139 302	GRID GRID	544700 545450	4164950 4165350	1.14E-03 1.14E-03	1.29E-05 2.99E-05	2.59E-05 9.18E-06	9.76E-07 7.07E-07	9.13E-05	3.93E-03	1.35E-03	0.00E+00
255	GRID	545000	4165250	1.14E-03	1.44E-05	1.56E-05	8.01E-07	9.21E-05 9.14E-05	1.44E-03 2.40E-03	1.34E-03 1.35E-03	0.00E+00 0.00E+00
276	GRID	545100	4165300	1.15E-03	1.68E-05	1.76E-05	1.06E-06	9.21E-05	2.73E-03	1.36E-03	0.00E+00
298 642	grid Grid	545250 544600	4165350	1.15E-03	2.16E-05	1.03E-05	8.66E-07	9.28E-05	1.63E-03	1.36E-03	0.00E+00
53	GRID	545100	4164850 4163850	1.16E-03 1.16E-03	1.92E-05 2.60E-05	1.63E-05 8.69E-06	1.26E-06 1.23E-06	9.29E-05 9.35E-05	2.57E-03 1.45E-03	1.36E-03	0.00E+00
301	GRID	545400	4165350	1.16E-03	2.80E-05	9.02E-06	8.22E-07	9.39E-05	1.44E-03	1.37E-03 1.37E-03	0.00E+00 0.00E+00
299	GRID	545300	4165350	1.17E-03	2.37E-05	8.03E-06	9.45E-07	9.44E-05	1.31E-03	1.38E-03	0.00E+00
95 300	grid Grid	545300 545350	4163950 4165350	1.17E-03 1.17E-03	4.56E-05 2.58E-05	8.26E-06	2.31E-06	9.58E-05	1.54E-03	1.38E-03	0.00E+00
284	GRID	545500	4165300	1.18E-03	3.55E-05	8.82E-06 9.25E-06	9.32E-07 7.25E-07	9.48E-05 9.59E-05	1.43É-03 1.46É-03	1.38E-03 1.39E-03	0.00E+00 0.00E+00
266	GRID	545550	4165250	1.20E-03	4.21E-05	9.97E-06	8.45E-07	9.80E-05	1.58E-03	1.41E-03	0.00E+00
74	GRID	545200	4163900	1.20E-03	3.37E-05	6.53E-06	1.69E-06	9.78E-05	1.20E-03	1.42E-03	0.00E+00
235 277	GRID GRID	544950 545150	4165200 4165300	1.21E-03 1.22E-03	1.34E-05 1.90E-05	1.56E-05 1.61E-05	9.34E-07	9.70E-05	2.41E-03	1.43E-03	0.00E+00
283	GRID	545450	4165300	1.22E-03	3.34E-05	9.71E-06	1.07E-06 7.28E-07	9.75E-05 9.94E-05	2.51E-03 1.52E-03	1.43E-03 1.44E-03	0.00E+00 0.00E+00
488	GRID	545350	4164000	1.22E-03	6.90E-05	7.51E-06	2.87E-06	1.02E-04	1.52E-03	1.44E-03	1.00E-05
256 52	GRID GRID	545050 545050	4165250	1.24E-03	1.62E-05	1.86E-05	9.29E-07	9.91E-05	2.85E-03	1.46E-03	0.00E+00
158	GRID	544750	4163850 4165000	1.24E-03 1.26E-03	2.73E-05 1.11E-05	8.59E-06 2.63E-05	1.21E-06 1.17E-06	1.00E-04 1.01E-04	1.43E-03 4.01E-03	1.47É-03	0.00E+00
265	GRID	545500	4165250	1.26E-03	3.99E-05	9.64E-06	7.88E-07	1.03E-04	1.52E-03	1.49E-03 1.49E-03	0.00E+00 0.00E+00
278	GRID	545200	4165300	1.26E-03	2.13E-05	1.30E-05	9.32E-07	1.02E-04	2.04E-03	1.49E-03	0.00E+00
282 215	grid Grid	545400 544900	4165300 4165150	1.26E-03 1.28E-03	3.11E-05	9.64E-06	8.53E-07	1.02E-04	1.53E-03	1.49E-03	0.00E+00
247		545550	4165200	1.27E-03	1.18E-05 4.74E-05	1.94E-05 1.06E-05	8.51E-07 8.98E-07	1.02E-04 1.04E-04	2.95E-03 1.67E-03	1.51E-03 1.50E-03	0.00E+00 1.00E-05
279	GRID	545250	4165300	1.29E-03	2.38E-05	9.35E-06	9.11E-07	1.04E-04	1.50E-03	1.53E-03	0.00E+00
281		545350	4165300	1.29E-03	2.87E-05	9.54E-06	9.76E-07	1.04E-04	1.54E-03	1.52E-03	0.00E+00
502 94		545400 545250	4164050 4163950	1.26E-03 1.29E-03	1.33E-04 4.71E-05	7.08E-06	6.55E-06	1.10E-04	1.99E-03	1.48E-03	1.00E-05
280		545300	4165300	1.30E-03	2.63E-05	8.95E-06 9.15E-06	2.18E-06 9.97E-07	1.06E-04 1.05E-04	1.62E-03 1.48E-03	1.52E-03 1.53E-03	0.00E+00 0.00E+00
177		544800	4165050	1.32E-03	1.04E-05	2.92E-05	9.79E-07	1.05E-04	4.41E-03	1.56E-03	0.00E+00
196		544850	4165100	1.32E-03	1.06E-05	2.56E-05	9.65E-07	1.06E-04	3.89E-03	1.56E-03	0.00E+00
257 264		545100 545450	4165250 4165250	1.32E-03 1.32E-03	1.83E-05 3.76E-05	1.84E-05 9.94E-06	1.10E-06 7.49E-07	1.06E-04	2.85E-03	1.56E-03	0.00E+00
73		545150	4163900	1.33E-03	3.47E-05	7.44E-06	1.35E-06	1.07E-04 1.08E-04	1.56E-03 1.29E-03	1.56E-03 1.57E-03	0.00E+00 0.00E+00
236		545000	4165200	1.33E-03	1.55E-05	1.84E-05	9.05E-07	1.07E-04	2.82E-03	1.57E-03	0.00E+00
51		545000	4163850	1.34E-03	2.87E-05	1.04E-05	1.17E-06	1.08E-04	1.68E-03	1.58E-03	0.00E+00
246 127		545500 544700	4165200 4164900	1.34E-03 1.36E-03	4.52E-05 1.55E-05	1.06E-05 2.78E-05	8.56E-07 1.10E-06	1.10E-04 1.08E-04	1.67E-03	1.59E-03	0.00E+00
657		544700	4164900	1.36E-03	1.55E-05	2.78E-05	1.10E-06	1.08E-04	4.22E-03 4.22E-03	1.60E-03 1.60E-03	0.00E+00 0.00E+00
487		545300	4164000	1.34E-03	7.23E-05	8.20E-06	2.64E-06	1.12E-04	1.58E-03	1.59E-03	1.00E-05
228 643		545550 544650	4165150 4164850	1.35E-03	5.37E-05	1.09E-05	9.45E-07	1.11E-04	1.72E-03	1.60E-03	1.00E-05
263		544650	4164850 4165250	1.37E-03 1.37E-03	1.93E-05 3.49E-05	2.44E-05 1.03E-05	1.13E-06 8.87E-07	1.10E-04 1.11E-04	3.73E-03 1.63E-03	1.62E-03	0.00E+00
258	GRID	545150	4165250	1.39E-03	2.08E-05	1.60E-05	1.15E-06	1.12E-04	2.50E-03	1.62E-03 1.64E-03	0.00E+00 0.00E+00
262		545350	4165250	1.42E-03	3.22E-05	1.01E-05	1.02E-06	1.14E-04	1.63E-03	1.67E-03	0.00E+00
245		545450	4165200	1.42E-03	4.25E-05	1.02E-05	7.70E-07	1.15E-04	1.61E-03	1.67E-03	0.00E+00
501 216		545350 544950	4164050 4165150	1.38E-03 1.43E-03	1.44E-04 1.43E-05	7.02E-06 1.71E-05	3.60E-06 9.68E-07	1.21E-04 1.14E-04	1.55E-03	1.63E-03	2.00E-05
259	GRID	545200	4165250	1.44E-03	2.35E-05	1.22E-05	1.02E-06	1.14E-04 1.15E-04	2.63E-03 1.93E-03	1.69E-03 1.69E-03	0.00E+00 0.00E+00
93	GRID	545200	4163950	1.43E-03	5.01E-05	9.74E-06	1.82E-06	1.17E-04	1.69E-03	1.69E-03	1.00E-05
50		544950	4163850	1.44E-03	2.97E-05	1.29E-05	1.09E-06	1.16E-04	2.04E-03	1.70E-03	0.00E+00
237 261		545050 545300	4165200 4165250	1.45E-03 1.44E-03	1.77É-05 2.94É-05	2.03E-05 1.01E-05	9.37E-07 1.05E-06	1.16E-04 1.16E-04	3.10E-03 1.62E-03	1.71E-03	0.00E+00
210	GRID	545550	4165100	1.43E-03	6.12E-05	1.08E-05	9.89E-07	1.18E-04	1.72E-03	1.70E-03 1.69E-03	0.00E+00 1.00E-05
227	GRID	545500	4165150	1.44E-03	5.13E-05	1.12E-05	9.26E-07	1.18E-04	1.77E-03	1.70E-03	1.00E-05

Table B2. Chronic index, Acute index and PM2.5 Calculation from ISCST	and HARP Output Flies - Shap Park Wetland Restoration Project

				Annual (		1-hr (u		Chronic	Acute	Annual (	ua/m3)
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC	Acrolein GLC	index	Index	PM2.5 GLC	PM2.5 GLC
260	GRID	545250	4165250	1.45E-03	2.65E-05	from construction 9.44E-06	from Haul truck 9.63E-07	Hic 1.17E-04	Hia 1.52E-03	from construction 1.71E-03	from Haul truck 0.00E+00
72	GRID	545100	4163900	1.47E-03	3.62E-05	9.08E-06	1.35E-06	1.19E-04	1.52E-03	1.74E-03	0.00E+00
244	GRID	545400		1.49E-03	3.95E-05	1.07E-05	9.21E-07	1.21E-04	1.69E-03	1.76E-03	0.00E+00
140 486	GRID GRID	544750 545250		1.51E-03	1.30E-05	2.91E-05	1.15E-06	1.20E-04	4.42E-03	1.78E-03	0.00E+00
197	GRID	544900		1.50E-03 1.52E-03	8.03E-05 1.25E-05	8.98E-06 2.03E-05	2.41E-06 8.27E-07	1.25E-04 1.21E-04	1.67E-03 3.08E-03	1.77E-03	1.00E-05
192	GRID	545550		1.52E-03	7.00E-05	1.03E-05	1.03E-06	1.25E-04	1.66E-03	1.80E-03 1.79E-03	0.00E+00 1.00E-05
226	GRID	545450		1.52E-03	4.84E-05	1.12E-05	8.43E-07	1.24E-04	1.76E-03	1.80E-03	1.00E-05
238	GRID			1.54E-03	2.01E-05	1.89E-05	1.15E-06	1.23E-04	2.93E-03	1.82E-03	0.00E+00
209 243	GRID	545500 545350		1.53E-03 1.55E-03	5.87E-05 3.63E-05	1.15E-05 1.09E-05	9.97E-07	1.26E-04	1.83E-03	1.81E-03	1.00E-05
49		544900		1.57E-03	3.02E-05	1.43E-05	1.08E-06 1.01E-06	1.25E-04 1.27E-04	1.75E-03 2.24E-03	1.83E-03 1.86E-03	0.00E+00 0.00E+00
217	GRID	545000	4165150	1.58E-03	1.69E-05	2.12E-05	1.01E-06	1.26E-04	3.24E-03	1.86E-03	0.00E+00
500	GRID	545300		1.54E-03	1.62E-04	6.92E-06	3.08E-06	1.34E-04	1.46E-03	1.81E-03	2.00E-05
178 159	GRID GRID	544850 544800	4165050 4165000	1.59E-03 1.60E-03	1.15E-05	2.78E-05	1.09E-06	1.27E-04	4.22E-03	1.88E-03	0.00E+00
629	GRID	544600	4164800	1.59E-03	1.17E-05 2.27E-05	3.25E-05 1.63E-05	1.18E-06 1.58E-06	1.27E-04 1.28E-04	4.91E-03 2.61E-03	1.88E-03 1.88E-03	0.00E+00
239	GRID	545150	4165200	1.60E-03	2.30E-05	1.55E-05	1.23E-06	1.29E-04	2.45E-03	1.89E-03	0.00E+00 0.00E+00
242	GRID	545300	4165200	1.60E-03	3.30E-05	1.07E-05	1.11E-06	1.29E-04	1.73E-03	1.89E-03	0.00E+00
174 92	grid Grid	545550 545150	4165000	1.60E-03 1.61E-03	8.06E-05	9.48E-06	1.06E-06	1.32E-04	1.54E-03	1.88E-03	1.00E-05
225	GRID		4163950 4165150	1.61E-03	5.20E-05 4.51E-05	1.06E-05 1.09E-05	1.52E-06 9.58E-07	1.31E-04 1.31E-04	1.78E-03 1.74E-03	1.90E-03	1.00E-05
240		545200	4165200	1.63E-03	2.62E-05	1.12E-05	1.11E-06	1.31E-04	1.79E-03	1.91E-03 1.93E-03	0.00E+00 0.00E+00
241	GRID	545250	4165200	1.63E-03	2.95E-05	1.06E-05	1.02E-06	1.31E-04	1.69E-03	1.92E-03	0.00E+00
191	GRID	545500	4165050	1.63E-03	6.77E-05	1.15E-05	1.06E-06	1.34E-04	1.83E-03	1.93E-03	1.00E-05
208 71	GRID GRID	545450 545050	4165100 4163900	1.64E-03 1.65E-03	5.56E-05 3.77E-05	1.19E-05 1.09E-05	9.29E-07	1.34E-04	1.88E-03	1.94E-03	1.00E-05
156	GRID	545550	4164950	1.67E-03	9.35E-05	8.30E-06	1.30E-06 1.09E-06	1.33E-04 1.39E-04	1.78E-03 1.37E-03	1.95E-03 1.97E-03	0.00E+00
224	GRID	545350	4165150	1.70E-03	4.14E-05	1.14E-05	1.13E-06	1.38E-04	1.84E-03	2.01E-03	1.00E-05 0.00E+00
485	GRID	545200	4164000	1.68E-03	8.35E-05	9.97E-06	1.96E-06	1.40E-04	1.74E-03	1.99E-03	1.00E-05
218 198	grid Grid	545050 544950	4165150	1.71E-03	1.95E-05	2.16E-05	9.37E-07	1.37E-04	3.29E-03	2.02E-03	0.00E+00
644	GRID	544700	4165100 4164850	1.72E-03 1.72E-03	1.53E-05 1.90E-05	2.06E-05 3.00E-05	1.00E-06 1.09E-06	1.37E-04 1.38E-04	3.15E-03	2.03E-03	0.00E+00
514	GRID	545350	4164100	1.56E-03	5.32E-04	8.20E-06	3.84E-06	1.66E-04	4.54E-03 1.75E-03	2.03E-03 1.85E-03	0.00E+00 6.00E-05
173	GRID	545500	4165000	1.73E-03	7.86E-05	1.10E-05	1.12E-06	1.43E-04	1.77E-03	2.04E-03	1.00E-05
207	GRID	545400	4165100	1.75E-03	5.19E-05	1.20E-05	9.99E-07	1.42E-04	1.90E-03	2.07E-03	1.00E-05
499 190	GRID GRID	545250 545450	4164050 4165050	1.73E-03 1.76E-03	1.57E-04 6.44E-05	7.48E-06 1.23E-05	2.71E-06	1.49E-04	1.49E-03	2.04E-03	2.00E-05
223	GRID	545300	4165150	1.77E-03	3.74E-05	1.16E-05	1.02E-06 1.18E-06	1.44E-04 1.43E-04	1.94E-03 1.87E-03	2.08E-03 2.09E-03	1.00E-05
219	GRID	545100	4165150	1.80E-03	2.23E-05	1.90E-05	1.19E-06	1.44E-04	2.95E-03	2.13E-03	0.00E+00 0.00E+00
222	GRID	545250	4165150	1.83E-03	3.33E-05	1.14E-05	1.08E-06	1.47E-04	1.83E-03	2.16E-03	0.00E+00
91 155	grid Grid	545100 545500	4163950	1.83E-03	5.29E-05	1.16E-05	1.47E-06	1.49E-04	1.91E-03	2.16E-03	1.00E-05
128	GRID	545500	4164950 4164900	1.82E-03 1.85E-03	9.17E-05 1.54E-05	1.01E-05 3.20E-05	1.18E-06 1.09E-06	1.51E-04	1.64E-03	2.15E-03	1.00E-05
658	GRID	544750	4164900	1.85E-03	1.54E-05	3.20E-05	1.09E-06	1.47E-04 1.47E-04	4.83E-03 4.83E-03	2.18E-03 2.18E-03	0.00E+00 0.00E+00
220	GRID	545150	4165150	1.85E-03	2.56E-05	1.47E-05	1.32E-06	1.48E-04	2.34E-03	2.19E-03	0.00E+00
179	GRID	544900	4165050	1.86E-03	1.33E-05	2.11E-05	9.89E-07	1.48E-04	3.23E-03	2.20E-03	0.00E+00
221 513	GRID GRID	545200 545300	4165150 4164100	1.86E-03 1.75E-03	2.94E-05 3.66E-04	1.11E-05	1.21E-06	1.49E-04	1.80E-03	2.19E-03	0.00E+00
206	GRID	545350	4165100	1.86E-03	4.75E-05	8.23E-06 1.17E-05	3.65E-06 1.19E-06	1.67E-04 1.51E-04	1.73E-03 1.89E-03	2.06E-03	4.00E-05
70	GRID	545000	4163900	1.87E-03	3.89E-05	1.20E-05	1.22E-06	1.51E-04	1.93E-03	2.20E-03 2.20E-03	1.00E-05 0.00E+00
172	GRID	545450	4165000	1.88E-03	7.51E-05	1.23E-05	1.12E-06	1.55E-04	1.96E-03	2.22E-03	1.00E-05
199	GRID	545000	4165100	1.90E-03	1.84E-05	2.36E-05	1,10E-06	1.52E-04	3.61E-03	2.25E-03	0.00E+00
189 484	grid Grid	545400 545150	4165050 4164000	1.89E-03 1.92E-03	6.01E-05 8.18E-05	1.28E-05 1.12E-05	1.04E-06	1.55E-04	2.01E-03	2.24E-03	1.00E-05
630	GRID	544650	4164800	1.92E-03	2.32E-05	2.59E-05	1.70E-06 1.50E-06	1.58E-04 1.54E-04	1.88E-03 4.00E-03	2.27E-03 2.27E-03	1.00E-05 0.00E+00
141	GRID	544800	4164950	1.98E-03	1.34E-05	3.64E-05	1.32E-06	1.58E-04	5.51E-03	2.34E-03	0.00E+00
160	GRID	544850	4165000	1.97E-03	1.27E-05	3.03E-05	1.13E-06	1.57E-04	4.59E-03	2.32E-03	0.00E+00
205 498	GRID GRID	545300 545200	4165100 4164050	1.96E-03 1.96E-03	4.29E-05	1.23E-05	1.26E-06	1.59E-04	1.98E-03	2.32E-03	0.00E+00
498	GRID	545200	4164950	1.99E-03	1.43E-04 8.82E-05	8.20E-06 1.18E-05	2.14E-06 1.22E-06	1.66E-04 1.65E-04	1.51E-03 1.90E-03	2.31E-03	2.00E-05
188	GRID	545350	4165050	2.03E-03	5.52E-05	1.29E-05	1.26E-06	1.65E-04	2.06E-03	2.36E-03 2.40E-03	1.00E-05 1.00E-05
200	GRID	545050	4165100	2.04E-03	2.15E-05	2.25E-05	9.97E-07	1.63E-04	3.42E-03	2.41E-03	0.00E+00
171	GRID	545400	4165000	2.04E-03	7.06E-05	1.32E-05	1.09E-06	1.67E-04	2.08E-03	2.41E-03	1.00E-05
204 512	GRID GRID	545250 545250	4165100 4164100	2.05E-03 1.97E-03	3.80E-05	1.24E-05	1.16E-06	1.65E-04	1.97E-03	2.42E-03	0.00E+00
528	GRID	545350	4164150	1.76E-03	2.78E-04 9.26E-04	8.30E-06 9.25E-06	3.08E-06 5.06E-06	1.78E-04 2.12E-04	1.66E-03 2.09E-03	2.33E-03 2.08E-03	3.00E-05
180	GRID	544950	4165050	2.12E-03	1.63E-05	2.46E-05	1.02E-06	1.69E-04	3.74E-03	2.50E-03	1.00E-04 0.00E+00
201	GRID	545100	4165100	2.13E-03	2.49E-05	1.88E-05	1.22E-06	1.70E-04	2.92E-03	2.51E-03	0.00E+00
203	GRID	545200	4165100	2.12E-03	3.32E-05	1.22E-05	1.32E-06	1.70E-04	1.97E-03	2.50E-03	0.00E+00
69 90	GRID GRID	544950 545050	4163900 4163950	2.13E-03 2.13E-03	3.95E-05 5.34E-05	1.35E-05 1.26E-05	1.13E-06 1.38E-06	1.71E-04	2.13E-03	2.51E-03	0.00E+00
202	GRID	545150	4165100	2.15E-03	2.87E-05	1.36E-05	1.41E-06	1.72E-04 1.72E-04	2.05E-03 2.19E-03	2.51E-03 2.53E-03	1.00E-05
527	GRID	545300	4164150	1,99E-03	5.65E-04	9.48E-06	4.41E-06	2.02E-04	2.03E-03	2.34E-03	0.00E+00 6.00E-05
187	GRID	545300	4165050	2.17E-03	4.97E-05	1.27E-05	1.35E-06	1.76E-04	2.05E-03	2.56E-03	1.00E-05
153 170	GRID GRID	545400 545350	4164950	2.19E-03	8.35E-05	1.32E-05	1.15E-06	1.80E-04	2.09E-03	2.58E-03	1.00E-05
483	GRID	545350 545100	4165000 4164000	2.22E-03 2.22E-03	6.48E-05 7.88E-05	1.37E-05 1.27E-05	1.33E-06 1.59E-06	1.80E-04 1.82E-04	2.19E-03 2.09E-03	2.62E-03 2.62E-03	1.00E-05
497	GRID	545150	4164050	2.25E-03	1.28E-04	9.05E-06	1.88E-06	1.82E-04 1.88E-04	2.09E-03 1.59E-03	2.66E-03	1.00E-05 1.00E-05
186	GRID	545250	4165050	2.29E-03	4.38E-05	1.32E-05	1.24E-06	1.85E-04	2.11E-03	2.72E-03	0.00E+00
181		545000	4165050	2.34E-03	2.01E-05	2.55E-05	1.17E-06	1.86E-04	3.90E-03	2.75E-03	0.00E+00
511		545200	4164100	2.27E-03	2.24E-04	8.33E-06	2.36E-06	1.96E-04	1.56E-03	2.67E-03	2.00E-05
617 161		544600 544900	4164750 4165000	2.31E-03 2.34E-03	2.67E-05 1.45E-05	1.69E-05 2.31E-05	1.69E-06 1.18E-06	1.86E-04	2.71E-03	2.74E-03	0.00E+00
645		544750	4164850	2.34E-03	1.88E-05	2.31E-05 3.54E-05	1.23E-06	1.86E-04 1.87E-04	3.55E-03 5.36E-03	2.76E-03 2.77E-03	0.00E+00 0.00E+00
526	GRID	545250	4164150	2.27E-03	4.03E-04	9.67E-06	3.57E-06	2.11E-04	1.93E-03	2.67E-03	4.00E-05
169		545300	4165000	2.40E-03	5.83E-05	1.38E-05	1.45E-06	1.94E-04	2.23E-03	2.83E-03	1.00E-05
		545350 545200	4164950	2.40E-03	7.71E-05	1.42E-05	1.41E-06	1.96E-04	2.28E-03	2.84E-03	1.00E-05
		545200	4165050 4165050	2.40E-03 2.47E-03	3.80E-05 2.40E-05	1.32E-05 2.30E-05	1.45E-06 1.15E-06	1.94E-04 1.97E-04	2.14E-03 3.52E-03	2.85E-03	0.00E+00
				· = +*				1.01 6-04	0.022-00	2.91E-03	0.00E+00

	Table B2.	Chronic Index, Acute Index	and PM2.5 Calculation from ISC	ST and HARP Output File	s - Shap Park Wetland Restoration Project
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		Та	bie B2. Chr	onic index, Acute ind	dex and PM2.5 Ca	iculation from ISCS	T and HARP Output	f Files - Shan Pa	rk Watland Bast	uration Project	
Receptor	Туре	UTME	UTMN	Annuai ( DPM GLC		1-hr (u Acrolein GLC		Chronic index	Acute Index	Annual ( PM2.5 GLC	ug/m3) PM2.5 GLC
				from construction	from Haul truck	from construction	from Haul truck	Hic	Hia	from construction	
631 68	GRID	544700 544900	4164800 4163900	2.45E-03	2.35E-05	3.28E-05	1.28E-06	1.96E-04	4.97E-03	2.90E-03	0.00E+00
184	GRID	545150	4165050	2.47E-03 2.49E-03	3.94E-05 3.26E-05	1.52E-05 1.30E-05	1.04E-06 1.50E-06	1.99E-04 1.99E-04	2.37E-03	2.92E-03	0.00E+00
183	GRID	545100	4165050	2.52E-03	2.80E-05	1.81E-05	1.25E-06	2.01E-04	2.12E-03 2.82E-03	2.94Ë-03 2.97Ë-03	0.00E+00 0.00E+00
541	GRID	545300	4164200	2.25E-03	8.38E-04	1.06E-05	5.40E-06	2.44E-04	2.33E-03	2.65E-03	9.00E-05
142	GRID	544850	4164950	2.54E-03	1.44E-05	3.31E-05	1.28E-06	2.01E-04	5.04E-03	2.99E-03	0.00E+00
89 129	GRID GRID	545000 544800	4163950	2.54E-03	5.34E-05	1.35E-05	1.27E-06	2.05E-04	2.15E-03	2.99E-03	1.00E-05
659	GRID	544800	4164900 4164900	2.56E-03 2.56E-03	1.58E-05 1.58E-05	4.13E-05 4.13E-05	1.32E-06 1.32E-06	2.04E-04 2.04E-04	6.24E-03 6.24E-03	3.03E-03	0.00E+00
168	GRID	545250	4165000	2.58E-03	5.12E-05	1.38E-05	1.34E-06	2.04E-04	2.22Ë-03	3.03E-03 3.05E-03	0.00E+00 1.00E-05
151	GRID	545300	4164950	2.65E-03	6.93E-05	1.48E-05	1.56E-06	2.14E-04	2.38E-03	3.11E-03	1.00E-05
482	GRID	545050	4164000	2.65E-03	7.61E-05	1.47E-05	1.46E-06	2.15E-04	2.36E-03	3.12E-03	1.00E-05
496 162	GRID	545100 544950	4164050 4165000	2.65E-03 2.67E-03	1.16E-04 1.76E-05	1.01E-05 2.81E-05	1.71E-06	2.18E-04	1.73E-03	3.12E-03	1.00E-05
510	GRID	545150	4164100	2.63E-03	1.87E-04	8.36E-06	9.86E-07 2.06E-06	2.13E-04 2.22E-04	4.25E-03 1.52E-03	3.17E-03 3.10E-03	0.00E+00
525	GRID	545200	4164150	2.60E-03	3.14E-04	9.87E-06	2.64E-06	2.31E-04	1.83E-03	3.08E-03	2.00E-05 3.00E-05
167	GRID	545200	4165000	2.76E-03	4.41E-05	1.43E-05	1.60E-06	2.21E-04	2.32E-03	3.24E-03	0.00E+00
540 150	GRID GRID	545250 545250	4164200 4164950	2.58E-03 2.89E-03	5.82E-04	1.10E-05	4.23E-06	2.50E-04	2.22E-03	3.05E-03	6.00E-05
166	GRID	545150	4165000	2.89E-03	6.08E-05 3.76E-05	1.50E-05 1.42E-05	1.46E-06 1.61E-06	2.33E-04 2.31E-04	2.40E-03 2.30E-03	3.40E-03	1.00E-05
163	GRID	545000	4165000	2.92E-03	2.20E-05	2.70E-05	1.22E-06	2.32E-04	4.12E-03	3.41E-03 3.43E-03	0.00E+00 0.00E+00
618	GRID	544650	4164750	2.98E-03	2.79E-05	2.75E-05	1.81E-06	2.37E-04	4.29E-03	3.51E-03	0.00E+00
165	GRID GRID	545100	4165000	2.98E-03	3.19E-05	1.70E-05	1.27E-06	2.38E-04	2.66E-03	3.52E-03	0.00E+00
164 553	GRID	545050 545300	4165000 4164250	3.00E-03 2.54E-03	2.69E-05 1.47E-03	2.31E-05 1.11E-05	1.31E-06 6.84E-06	2.39E-04	3.56E-03	3.54E-03	0.00E+00
143	GRID	544900	4164950	3.07E-03	1.61E-05	2.97E-05	1.31E-06	3.17E-04 2.45E-04	2.62E-03 4.52E-03	2.99E-03 3.64E-03	1.60E-04 0.00E+00
149	GRID	545200	4164950	3.14E-03	5.19E-05	1.51E-05	1.77E-06	2.52E-04	2.46E-03	3.69E-03	1.00E-05
524	GRID	545150	4164150	3.05E-03	2.55E-04	1.02E-05	2.28E-06	2.62E-04	1.81E-03	3.61E-03	3.00E-05
539 88	GRID GRID	545200 544950	4164200 4163950	3.00E-03 3.14E-03	4.39E-04	1.14E-05	3.00E-06	2.72E-04	2.10E-03	3.55E-03	5.00E-05
509	GRID	545100	4164100	3.12E-03	5.30E-05 1.61E-04	1.61E-05 8.33E-06	1.16E-06 1.84E-06	2.53E-04 2.58E-04	2.51E-03 1.49E-03	3.71E-03 3.67E-03	1.00E-05
138	GRID	545250	4164900	3.21E-03	7.33E-05	1.60E-05	1.60E-06	2.59E-04	2.58E-03	3.77E-03	2.00E-05 1.00E-05
495	GRID	545050	4164050	3.18E-03	1.07E-04	1.14E-05	1.54E-06	2.60E-04	1.90E-03	3.75E-03	1.00E-05
552 668	GRID GRID	545250 545250	4164250	2.94E-03 3.21E-03	8.91E-04	1.20E-05	5.11E-06	3.02E-04	2.50E-03	3.46E-03	9.00E-05
481	GRID	545250	4164900 4164000	3.27E-03	7.33E-05 7.35E-05	1.60E-05 1.74E-05	1.60E-06 1.32E-06	2.59E-04	2.58E-03	3.77E-03	1.00E-05
148	GRID	545150	4164950	3.36E-03	4.38E-05	1.54E-05	1.71E-06	2.65E-04 2.69E-04	2.74E-03 2.51E-03	3.87E-03 3.96E-03	1.00E-05 0.00E+00
632	GRID	544750	4164800	3.38E-03	2.34E-05	4.10E-05	1.25E-06	2.69E-04	6.16E-03	3.99E-03	0.00E+00
130	GRID	544850	4164900	3.47E-03	1.67E-05	3.67E-05	1.50E-06	2.75E-04	5.58E-03	4.09E-03	0.00E+00
607 660	GRID GRID	544600 544850	4164700 4164900	3.45E-03 3.47E-03	3.20E-05 1.67E-05	1.83E-05	1.51E-06	2.75E-04	2.89E-03	4.07E-03	0.00E+00
144	GRID	544950	4164950	3.49E-03	1.93E-05	3.67E-05 3.09E-05	1.50E-06 1.24E-06	2.75E-04 2.78E-04	5.58E-03 4.70E-03	4.09E-03 4.13E-03	0.00E+00 0.00E+00
137	GRID	545200	4164900	3.54E-03	6.23E-05	1.64E-05	1.96E-06	2.85E-04	2.68E-03	4.18E-03	1.00E-05
147	GRID	545100	4164950	3.54E-03	3.68E-05	1.54E-05	1.29E-06	2.83E-04	2.44E-03	4.19E-03	0.00E+00
667 646	GRID GRID	545200 544800	4164900 4164850	3.54E-03 3.56E-03	6.23E-05	1.64E-05	1.96E-06	2.85E-04	2.68E-03	4.18E-03	1.00E-05
551	GRID	545200	4164250	3.43E-03	1.90E-05 6.20E-04	4.79E-05 1.29E-05	1.23E-06 3.50E-06	2.83E-04 3.21E-04	7.19E-03 2.39E-03	4.21E-03	0.00E+00
538	GRID	545150	4164200	3.54E-03	3.44E-04	1.19E-05	2.54E-06	3.08E-04	2.10E-03	4.06E-03 4.19E-03	7.00E-05 4.00E-05
146	GRID	545050	4164950	3.67E-03	3.04E-05	2.28E-05	1.45E-06	2.92E-04	3.53E-03	4.33E-03	0.00E+00
145 523	grid Grid	545000 545100	4164950 4164150	3.67E-03	2.43E-05	2.82E-05	1.26E-06	2.93E-04	4.30E-03	4.34E-03	0.00E+00
563	GRID	545250	4164300	3.65E-03 3.29E-03	2.14E-04 1.38E-03	1.05E-05 1.33E-05	1.99E-06 6.13E-06	3.05E-04 3.69E-04	1.82E-03 2.85E-03	4.30E-03	2.00E-05
508	GRID	545050	4164100	3.76E-03	1.43E-04	1.00E-05	1.63E-06	3.09E-04	1.70E-03	3.88E-03 4.45E-03	1.50E-04 2.00E-05
136	GRID	545150	4164900	3.90E-03	5.19E-05	1.66E-05	1.82E-06	3.12E-04	2.69E-03	4.60E-03	1.00E-05
666	GRID	545150 545200	4164900	3.90E-03	5.19E-05	1.66E-05	1.82E-06	3.12E-04	2.69E-03	4.60E-03	1.00E-05
126 654	grid Grid	545200	4164850 4164850	3.96E-03 3.96E-03	7.62E-05 7.62E-05	1.76E-05 1.76E-05	2.19E-06 2.19E-06	3.19E-04	2.88E-03	4.68E-03	1.00E-05
494	GRID	545000	4164050	4.01E-03	9.97E-05	1.31E-05	1.38E-06	3.19E-04 3.24E-04	2.88E-03 2.12E-03	4.68E-03 4.73E-03	1.00E-05 1.00E-05
87	GRID	544900	4163950	4.07E-03	5.18E-05	1.91E-05	1.07E-06	3.25E-04	2.94E-03	4.80E-03	1.00E-05
562	GRID	545200	4164300	3.90E-03	8.91E-04	1.44E-05	4.41E-06	3.78E-04	2.74E-03	4.59E-03	9.00E-05
619 135	GRID GRID	544700 545100	4164750 4164900	4.16E-03 4.23E-03	2.87E-05 4.29E-05	3.61E-05 1.69E-05	1.78E-06 1.55E-06	3.31E-04	5.55E-03	4.92E-03	0.00E+00
550	GRID	545150	4164250	4.07E-03	4.63E-04	1.36E-05	2.87E-06	3.38E-04 3.59E-04	2.70E-03 2.41E-03	4.99E-03 4.82E-03	0.00E+00 5.00E-05
665	GRID	545100	4164900	4.23E-03	4.29E-05	1.69E-05	1.55E-06	3.38E-04	2.70E-03	4.99E-03	0.00E+00
131	GRID	544900	4164900	4.30E-03	1.84E-05	3.51E-05	1.36E-06	3.41E-04	5.34E-03	5.06E-03	0.00E+00
661 537	GRID GRID	544900 545100	4164900 4164200	4.30E-03 4.25E-03	1.84E-05	3.51E-05	1.36E-06	3.41E-04	5.34E-03	5.06E-03	0.00E+00
480	GRID	544950	4164000	4.34E-03	2.81E-04 7.09E-05	1.24E-05 2.13E-05	2.18E-06 1.21E-06	3.58E-04 3.49E-04	2.13E-03 3.29E-03	5.01E-03	3.00E-05
119	GRID	545200	4164800	4.38E-03	9.52E-05	1.85E-05	2.46E-06	3.54E-04	3.06E-03	5.12E-03 5.17E-03	1.00E-05 1.00E-05
641	GRID	545200	4164800	4.38E-03	9.52E-05	1.85E-05	2.46E-06	3.54E-04	3.06E-03	5.17E-03	1.00E-05
125	GRID GRID	545150 545050	4164850	4.47E-03	6.29E-05	1.82E-05	1.92E-06	3.58E-04	2.93E-03	5.28E-03	1.00E-05
522 653	GRID	545050	4164150 4164850	4.43E-03 4.47E-03	1.84E-04 6.29E-05	1.09E-05 1.82E-05	1.77E-06 1.92E-06	3.65E-04	1.85E-03	5.23E-03	2.00E-05
134	GRID	545050	4164900	4.52E-03	3.47E-05	2.18E-05	1.54E-06	3.58E-04 3.59E-04	2.93E-03 3.41E-03	5.28E-03 5.33E-03	1.00E-05 0.00E+00
664	GRID	545050	4164900	4.52E-03	3.47E-05	2.18E-05	1.54E-06	3.59E-04	3.41E-03	5.33E-03	0.00E+00
132	GRID	544950	4164900	4.67E-03	2.17E-05	3.34E-05	1.49E-06	3.72E-04	5.09E-03	5.53E-03	0.00E+00
662 133	grid Grid	544950 545000	4164900 4164900	4.67E-03 4.70E-03	2.17E-05 2.72E-05	3.34E-05	1.49E-06	3.72E-04	5.09E-03	5.53E-03	0.00E+00
	GRID	545000	4164900	4.70E-03	2.72E-05 2.72E-05	2.91E-05 2.91E-05	1.22E-06 1.22E-06	3.73E-04 3.73E-04	4.42E-03 4.42E-03	5.54E-03 5.54E-03	0.00E+00
608	GRID	544650	4164700	4.72E-03	3.38E-05	2.93E-05	1.86E-06	3.75E-04	4.42E-03 4.55E-03	5.57E-03	0.00E+00 0.00E+00
571	GRID	545200	4164350	4.32E-03	1.40E-03	1.68E-05	5.45E-06	4.53E-04	3.25E-03	5.11E-03	1.50E-04
	GRID GRID	545200	4164750	4.76E-03	1.23E-04	1.90E-05	2.79E-06	3.86E-04	3.19E-03	5.62E-03	1.00E-05
	GRID	545000 545200	4164100 4164750	4.76E-03 4.76E-03	1.29E-04 1.23E-04	1.13E-05 1.90E-05	1.48E-06 2.79E-06	3.86E-04	1.86E-03	5.61E-03	1.00E-05
	GRID	545150	4164300	4.67E-03	6.42E-04	1.56E-05	2.79E-06 3.47E-06	3.86E-04 4.19E-04	3.19E-03 2.78E-03	5.62E-03 5.50E-03	1.00E-05 7.00E-05
		544600	4164650	4.90E-03	3.92E-05	2.09E-05	1.05E-06	3.90E-04	3.21E-03	5.78E-03	0.00E+00
		545100	4164850	5.01E-03	5.11E-05	1.87E-05	1.82E-06	4.00E-04	3.00E-03	5.91E-03	1.00E-05
		545100 545100	4164850 4164250	5.01E-03 4.92E-03	5.11E-05 3.69E-04	1.87E-05	1.82E-06	4.00E-04	3.00E-03	5.91E-03	1.00E-05
		545150	4164800	4.92E-03 5.05E-03	7.80E-05	1.45E-05 1.95E-05	2.44E-06 2.00E-06	4.19E-04 4.06E-04	2.47E-03 3.14E-03	5.81E-03 5.97E-03	4.00E-05 1.00E-05
										0.07 6 00	1.002-00

Table B2. Chronic Index, Acute Index and PM2.5 Calculation from ISCST and HARP Output Files - Shap Park Wetland Restoration Project
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				Annual (		1-hr (u		Chronic	Acute	Annuai (	ua/m3)
Receptor	Туре	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC	Acrolein GLC	index	Index	PM2.5 GLC	PM2.5 GLC
640	GRID	545150	4164800	5.05E-03	7.80E-05	from construction 1.95E-05	from Haul truck 2.00E-06	Hic 4.06E-04	Hia 3.14E-03	from construction 5.97E-03	
536	GRID	545050	4164200	5.16E-03	2.36E-04	1.32E-05	1.96E-06	4.27E-04	2.21E-03	6.10E-03	1.00E-05 3.00E-05
647 493	GRID GRID	544850 544950		5.28E-03	1.98E-05 9.26E-05	4.10E-05	1.54E-06	4.19E-04	6.20E-03	6.24E-03	0.00E+00
123	GRID	545050	4164850	5.43E-03 5.54E-03	4.01E-05	1.54E-05 2.02E-05	1.28E-06 1.64E-06	4.37E-04 4.42E-04	2.44E-03 3.19E-03	6.41E-03 6.55E-03	1.00E-05
521	GRID	545000	4164150	5.50E-03	1.63E-04	1.21E-05	1.63E-06	4.48E-04	2.00E-03	6.50E-03	0.00E+00 2.00E-05
651 570	GRID GRID	545050 545150	4164850	5.54E-03	4.01E-05	2.02E-05	1.64E-06	4.42E-04	3.19E-03	6.55E-03	0.00E+00
633	GRID	545150	4164350 4164800	5.28E-03 5.63E-03	1.01E-03 2.35E-05	1.85E-05 5.67E-05	4.18E-06 1.40E-06	4.97E-04 4.47E-04	3.30E-03 8.50E-03	6.23E-03	1.10E-04
111	GRID	545150		5.63E-03	9.97E-05	2.06E-05	2.25E-06	4.53E-04	3.34E-03	6.65E-03 6.65E-03	0.00E+00 1.00E-05
627	GRID	545150	4164750	5.63E-03	9.97E-05	2.06E-05	2.25E-06	4.53E-04	3.34E-03	6.65E-03	1.00E-05
117 560	GRID GRID	545100 545100	4164800 4164300	5.85E-03 5.70E-03	6.20E-05 4.99E-04	2.05E-05 1.72E-05	2.07E-06 3.16E-06	4.67E-04 4.91E-04	3.29E-03 2.97E-03	6.90E-03	1.00E-05
639	GRID	545100	4164800	5.85E-03	6.20E-05	2.05E-05	2.07E-06	4.67E-04	3.29E-03	6.74E-03 6.90E-03	5.00E-05 1.00E-05
122	GRID	545000	4164850	6.05E-03	3.10E-05	2.95E-05	1.63E-06	4.81E-04	4.54E-03	7.14E-03	0.00E+00
650 548	GRID GRID	545000 545050	4164850 4164250	6.05E-03 6.05E-03	3.10E-05 3.02E-04	2.95E-05 1.57E-05	1.63E-06 2.32E-06	4.81E-04 5.03E-04	4.54E-03	7.14E-03	0.00E+00
106	GRID	545150	4164700	6.14E-03	1.32E-04	2.14E-05	2.84E-06	4.97E-04	2.63E-03 3.55E-03	7.15E-03 7.26E-03	3.00E-05 1.00E-05
616	GRID	545150	4164700	6.14E-03	1.32E-04	2.14E-05	2.84E-06	4.97E-04	3.55E-03	7.26E-03	1.00E-05
506 120	GRID GRID	544950 544900	4164100 4164850	6.32E-03 6.37E-03	1.18E-04 2.17E-05	1.61E-05 3.93E-05	1.39E-06 1.71E-06	5.08E-04 5.05E-04	2.56E-03	7.45E-03	1.00E-05
648	GRID	544900	4164850	6.37E-03	2.17E-05	3.93E-05	1.71E-06	5.05E-04	6.00E-03 6.00E-03	7.51E-03 7.51E-03	0.00E+00 0.00E+00
121	GRID	544950	4164850	6.41E-03	2.51E-05	3.57E-05	1.62E-06	5.09E-04	5.44E-03	7.57E-03	0.00E+00
649 535	grid Grid	544950 545000	4164850 4164200	6.41E-03 6.41E-03	2.51E-05 2.04E-04	3.57E-05 1.41E-05	1.62E-06	5.09E-04	5.44E-03	7.57E-03	0.00E+00
479	GRID	544900	4164000	6.52E-03	6.76E-05	2.70E-05	1.79E-06 1.12E-06	5.23E-04 5.20E-04	2.33E-03 4.11E-03	7.56E-03 7.69E-03	2.00E-05 1.00E-05
594	GRID	544600	4164600	6.57E-03	4.95E-05	2.31E-05	1.23E-06	5.22E-04	3.56E-03	7.74E-03	1.00E-05
110 626	GRID GRID	545100 545100	4164750 4164750	6.72E-03 6.72E-03	7.77E-05 7.77E-05	2.20E-05 2.20E-05	2.28E-06	5.37E-04	3.55E-03	7.92E-03	1.00E-05
116	GRID	545050	4164800	6.74E-03	4.74E-05	2.15E-05	2.28E-06 1.61E-06	5.37E-04 5.37E-04	3.55E-03 3.37E-03	7.92E-03 7.96E-03	1.00E-05 1.00E-05
620	GRID	544750	4164750	6.77E-03	2.92E-05	4.82E-05	1.58E-06	5.36E-04	7.28E-03	7.97E-03	0.00E+00
638 569	GRID GRID	545050 545100	4164800 4164350	6.74E-03 6.61E-03	4.74E-05 8.19E-04	2.15E-05	1.61E-06	5.37E-04	3.37E-03	7.96E-03	1.00E-05
601	GRID	544650	4164650	6.94E-03	4.19E-04	2.06E-05 3.11E-05	5.35E-06 1.56E-06	5.87E-04 5.53E-04	3.78E-03 4.77E-03	7.79E-03 8.21E-03	9.00E-05 0.00E+00
580	GRID	545150	4164450	6.41E-03	1.95E-03	1.93E-05	9.37E-06	6.61E-04	4.20E-03	7.56E-03	2.10E-04
587 520	GRID GRID	545150 544950	4164500 4164150	6.77E-03 7.10E-03	7.88E-04	1.76E-05	8.87E-06	5.98E-04	3.86E-03	8.00E-03	8.00E-05
559	GRID	545050	4164300	7.17E-03	1.47E-04 4.07E-04	1.69E-05 1.93E-05	1.50E-06 3.34E-06	5.72E-04 5.99E-04	2.69E-03 3.30E-03	8.37E-03 8.46E-03	2.00E-05
609	GRID	544700	4164700	7.30E-03	3.55E-05	4.07E-05	2.07E-06	5.79E-04	6.23E-03	8.61E-03	4.00E-05 0.00E+00
105 615	GRID GRID	545100 545100	4164700	7.55E-03	1.01E-04	2.33E-05	2.33E-06	6.04E-04	3.75E-03	8.89E-03	1.00E-05
547	GRID	545000	4164700 4164250	7.55E-03 7.61E-03	1.01E-04 2.57E-04	2.33E-05 1.78E-05	2.33E-06 2.39E-06	6.04E-04 6.23E-04	3.75E-03 2.95E-03	8.89E-03 8.99E-03	1.00E-05
115	GRID	545000	4164800	7.75E-03	3.68E-05	2.92E-05	1.96E-06	6.15E-04	4.55E-03	9.14E-03	3.00E-05 0.00E+00
637	GRID	545000	4164800	7.75E-03	3.68E-05	2.92E-05	1.96E-06	6.15E-04	4.55E-03	9.14E-03	0.00E+00
109 625	grid Grid	545050 545050	4164750 4164750	8.04E-03 8.04E-03	5.83E-05 5.83E-05	2.36E-05 2.36E-05	2.27E-06 2.27E-06	6.40E-04 6.40E-04	3.78E-03 3.78E-03	9.49E-03	1.00E-05
534	GRID	544950	4164200	8.19E-03	1.82E-04	1.77E-05	1.88E-06	6.61E-04	2.86E-03	9.49E-03 9.66E-03	1.00E-05 2.00E-05
492	GRID	544900	4164050	8.28E-03	8.63E-05	1.90E-05	1.21E-06	6.61E-04	2.94E-03	9.77E-03	1.00E-05
588 529	GRID GRID	544600 544600	4164550 4164200	8.32E-03 8.61E-03	6.21E-05 9.70E-05	2.76E-05 3.07E-05	1.88E-06 1.76E-06	6.62E-04	4.30E-03	9.82E-03	1.00E-05
568	GRID	545050	4164350	8.57E-03	7.27E-04	2.33E-05	6.29E-06	6.88E-04 7.35E-04	4.73E-03 4.32E-03	1.02E-02 1.01E-02	1.00E-05 8.00E-05
114	GRID	544950	4164800	8.86E-03	3.02E-05	3.80E-05	1.94E-06	7.03E-04	5.82E-03	1.05E-02	0.00E+00
636 579	grid Grid	544950 545100	4164800 4164450	8.86E-03 8.32E-03	3.02E-05 1.76E-03	3.80E-05 2.22E-05	1.94E-06 6.86E-06	7.03E-04	5.82E-03	1.05E-02	0.00E+00
505	GRID	544900	4164100	8.99E-03	1.08E-04	2.05E-05	1.31E-06	7.97E-04 7.20E-04	4.24E-03 3.19E-03	9.82E-03 1.06E-02	1.90E-04 1.00E-05
515	GRID	544600	4164150	9.06E-03	8.50E-05	3.17E-05	1.50E-06	7.22E-04	4.85E-03	1.07E-02	1.00E-05
586 593	grid Grid	545100 545100	4164500 4164550	8.84E-03 8.95E-03	7.35E-04 3.73E-04	2.02E-05	5.77E-06	7.56E-04	3.79E-03	1.04E-02	8.00E-05
542	GRID	544600	4164250	9.08E-03	1.09E-04	2.14E-05 3.17E-05	5.24E-06 1.73E-06	7.37E-04 7.26E-04	3.89E-03 4.88E-03	1.06E-02 1.07E-02	4.00E-05 1.00E-05
104	GRID	545050	4164700	9.35E-03	7.61E-05	2.55E-05	2.71E-06	7.45E-04	4.12E-03	1.10E-02	1.00E-05
614 558	GRID GRID	545050 545000	4164700 4164300	9.35E-03 9.33E-03	7.61E-05	2.55E-05	2.71E-06	7.45E-04	4.12E-03	1.10E-02	1.00E-05
519	GRID	544900	4164150	9.57E-03	3.48E-04 1.32E-04	2.21E-05 2.25E-05	3.44E-06 1.56E-06	7.65E-04 7.66E-04	3.74E-03 3.51E-03	1.10E-02 1.13E-02	4.00E-05
554	GRID	544600	4164300	9.62E-03	1.18E-04	3.17E-05	1.82E-06	7.69E-04	4.89E-03	1.13E-02	1.00E-05 1.00E-05
595	GRID	544650	4164600	9.62E-03	5.33E-05	3.24E-05	1.24E-06	7.64E-04	4.91E-03	1.14E-02	1.00E-05
108 624	grid Grid	545000 545000	4164750 4164750	9.70E-03 9.70E-03	4.56E-05 4.56E-05	2.80E-05 2.80E-05	2.17E-06 2.17E-06	7.71E-04 7.71E-04	4.40E-03 4.40E-03	1.15E-02	0.00E+00
581	GRID	544600	4164500	9.77E-03	7.50E-05	3.04E-05	2.32E-06	7.78E-04	4.78E-03	1.15E-02 1.15E-02	0.00E+00 1.00E-05
634		544850	4164800	9.84E-03	2.43E-05	4.85E-05	1.41E-06	7.79E-04	7.28E-03	1.16E-02	0.00E+00
113 635		544900 544900	4164800 4164800	9.97E-03 9.97E-03	2.62E-05 2.62E-05	4.36E-05 4.36E-05	1.82E-06 1.82E-06	7.90E-04 7.90E-04	6.63E-03	1.18E-02	0.00E+00
546		544950	4164250	9.95E-03	2.29E-04	2.07E-05	2.31E-06	8.04E-04	6.63E-03 3.36E-03	1.18E-02 1.17E-02	0.00E+00 2.00E-05
564		544600	4164350	9.99E-03	1.17E-04	3.12E-05	2.30E-06	8.00E-04	4.89E-03	1.18E-02	1.00E-05
572 574		544600 544600	4164400 4164450	1.02E-02 1.02E-02	1.05E-04 8.82E-05	3.08E-05 3.09E-05	2.59E-06	8.15E-04	4.87E-03	1.21E-02	1.00E-05
102	GRID	545050	4164650	1.06E-02	1.08E-04	2.71E-05	2.79E-06 3.55E-06	8.15E-04 8.44E-04	4.92E-03 4.48E-03	1.21E-02 1.25E-02	1.00E-05 1.00E-05
606		545050	4164650	1.06E-02	1.08E-04	2.71E-05	3.55E-06	8.44E-04	4.48E-03	1.25E-02	1.00E-05
503 533		544600 544900	4164100 4164200	1.09E-02 1.09E-02	7.31E-05 1.62E-04	3.28E-05	1.37E-06	8.69E-04	4.99E-03	1.29E-02	1.00E-05
602		544700	4164650	1.14E-02	4.46E-05	2.48E-05 4.59E-05	1.81E-06 2.03E-06	8.75E-04 9.04E-04	3.89E-03 7.02E-03	1.29E-02 1.35E-02	2.00E-05
101	GRID	545050	4164600	1.15E-02	1.70E-04	2.89E-05	3.47E-06	9.25E-04	4.73E-03	1.36E-02	0.00E+00 2.00E-05
599 103		545050 545000	4164600 4164700	1.15E-02	1.70E-04	2.89E-05	3.47E-06	9.25E-04	4.73E-03	1.36E-02	2.00E-05
613		545000	4164700	1.18E-02 1.18E-02	5.98E-05 5.98E-05	2.82E-05 2.82E-05	2.77E-06 2.77E-06	9.41E-04 9.41E-04	4.53E-03 4.53E-03	1.40E-02 1.40E-02	1.00E-05
567	GRID	545000	4164350	1.18E-02	6.27E-04	2.71E-05	6.03E-06	9.78E-04	4.83E-03	1.39E-02	1.00E-05 7.00E-05
578 107		545050	4164450	1.14E-02	1.58E-03	2.60E-05	6.55E-06	1.03E-03	4.76E-03	1.35E-02	1.70E-04
107 623		544950 544950	4164750 4164750	1.20E-02 1.20E-02	3.76E-05 3.76E-05	4.00E-05 4.00E-05	2.22E-06 2.22E-06	9.48E-04 9.48E-04	6.15E-03	1.41E-02	0.00E+00
592	GRID	545050	4164550	1.21E-02	3.02E-04	3.00E-05	3.63E-06	9.48E-04 9.79E-04	6.15E-03 4.91E-03	1.41E-02 1.43E-02	0.00E+00 3.00E-05
585	GRID	545050	4164500	1.21E-02	6.15E-04	2.54E-05	5.40E-06	1.01E-03	4.49E-03	1.43E-02	7.00E-05

Table B2. Chronic index, Acute index and PM2.5 Calculation from ISCST and HARP O	Dutput Files - Shap Park Wetland Restoration Project
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				Annual (	ua/m3)	1-hr (ug	/m3)	Chronic	Acute	Annual (	
Receptor	Type	UTME	UTMN	DPM GLC	DPM GLC	Acrolein GLC	Acrolein GLC	Index	Index	PM2.5 GLC	PM2.5 GLC
						from construction		Hic	Hia	from construction	from Haul truck
589	GRID	544650	4164550	1.26E-02	6.90E-05	3.25E-05	1.86E-06	1.00E-03	5.02E-03	1.49E-02	1.00E-05
557	GRID	544950	4164300	1.29E-02	3.14E-04	2.60E-05	3.65E-06	1.04E-03	4.33E-03	1.52E-02	3.00E-05
530	GRID	544650	4164200	1.34E-02	1.07E-04	4.36E-05	1.77E-06	1.07E-03	6.64E-03	1.598-02	3.00E-05
518	GRID	544850	4164150	1.36E-02	1.20E-04	2.72E-05	1.52E-06	1.08E-03	4.20E-03	1.60E-02	1.00E-05
610	GRID	544750	4164700	1.38E-02	3.67E-05	5.77E-05	2.13E-06	1.09E-03	8.75E-03	1.63E-02	0.00E+00
504	GRID	544850	4164100	1.38E-02	9.88E-05	2.42E-05	1.34E-06	1.10E-03	3.73E-03	1.63E-02	1.00E-05
543	GRID	544650	4164250	1.40E-02	1.23E-04	4.30E-05	2.10E-06	1.11E-03	6.56E-03	1.65E-02	1.00E-05
605	GRID	545000	4164650	1.40E-02	8.35E-05	3.06E-05	2.55E-06	1.11E-03	4.84E-03	1.65E-02	1.00E-05
490	GRID	544600	4164050	1.40E-02	6.22E-05	4.03E-05	1.16E-06	1.11E-03	6.08E-03	1.66E-02	1.00E-05
545	GRID	544900	4164250	1.41E-02	2.05E-04	2.78E-05	2.45E-06	1.13E-03	4.41E-03	1.66E-02	2.00E-05
491	GRID	544850	4164050	1.43E-02	8.02E-05	2.27E-05	1.16E-06	1.14E-03	3.49E-03	1.69E-02	1.00E-05
555	GRID	544650	4164300	1.46E-02	1.38E-04	4.16E-05	1.95E-06	1.17E-03	6.38E-03	1.73E-02	1.00E-05
565	GRID	544650	4164350	1.52E-02	1.42E-04	4.03E-05	2.46E-06	1.21E-03	6.26E-03	1.79E-02	2.00E-05
582	GRID	544650	4164500	1.52E-02	8.66E-05	3.64E-05	2.44E-06	1.21E-03	5.67E-03	1.80E-02	1.00E-05
622	GRID	544900	4164750	1.54E-02	3.28E-05	4.82E-05	1.65E-06	1.22E-03	7.27E-03	1.81E-02	0.00E+00
532	GRID	544850	4164200	1.54E-02	1.47E-04	3.38E-05	1.89E-06	1.23E-03	5.23E-03	1.81E-02	2.00E-05
573	GRID	544650	4164400	1.55E-02	1.27E-04	3.87E-05	3.08E-06	1.23E-03	6.08E-03	1.83E-02	1.00E-05
612	GRID	544950	4164700	1.55E-02	4.89E-05	4.13E-05	2.01E-06	1.23E-03	6.34E-03	1.83E-02	1.00E-05
575	GRID	544650	4164450	1.55E-02	1.05E-04	3.71E-05	3.31E-06	1.24E-03	5.89E-03	1.83E-02	1.00E-05
598	GRID	545000	4164600	1.58E-02	1.26E-04	3.27E-05	2.82E-06	1.26E-03	5.18E-03	1.87E-02	1.00E-05
516	GRID	544650	4164150	1.63E-02	9.08E-05	4.69E-05	1.60E-06	1.30E-03	7.10E-03	1.92E-02	1.00E-05
591	GRID	545000	4164550	1.72E-02	2.09E-04	3.51E-05	4.07E-06	1.38E-03	5.72E-03	2.03E-02	2.00E-05
596	GRID	544700	4164600	1.74E-02	5.78E-05	5.25E-05	1.57E-06	1.38E-03	7.87E-03	2.05E-02	1.00E-05
566	GRID	544950	4164350	1.76E-02	5.39E-04	3.20E-05	5.77E-06	1.43E-03	5.51E-03	2.08E-02	6.00E-05
577	GRID	545000	4164450	1.73E-02	1.25E-03	3.12E-05	5.45E-06	1.47E-03	5.36E-03	2.05E-02	1.30E-04
584	GRID	545000	4164500	1.79E-02	4.27E-04	3.77E-05	4.91E-06	1.45E-03	6.21E-03	2.11E-02	5.00E-05
604	GRID	544950	4164650	1.94E-02	6.68E-05	4.16E-05	2.28E-06	1.54E-03	6.42E-03	2.29E-02	1.00E-05
556	GRID	544900	4164300	2.04E-02	2.81E-04	3.12E-05	3.47E-06	1.64E-03	5.06E-03	2.41E-02	3.00E-05
517	GRID	544800	4164150	2.09E-02	1.11E-04	4.49E-05	1.53E-06	1.66E-03	6.79E-03	2.47E-02	1.00E-05
621	GRID	544850	4164750	2.12E-02	3.07E-05	5.51E-05	1.62E-06	1.68E-03	8.26E-03	2.51E-02	0.00E+00
611	GRID	544900	4164700	2.17E-02	4.28E-05	5.31E-05	1.90E-06	1.72E-03	8.01E-03	2.57E-02	0.00E+00
531	GRID	544800	4164200	2.29E-02	1.36E-04	5.38E-05	1.93E-06	1.83E-03	8.12E-03	2.71E-02	1.00E-05
597	GRID	544950	4164600	2.31E-02	9.52E-05	4.03E-05	2.95E-06	1.84E-03	6.34E-03	2.74E-02	1.00E-05
544	GRID	544850	4164250	2.45E-02	1.86E-04	4.43E-05	2.56E-06	1.94E-03	6.82E-03	2.88E-02	2.00E-05
590	GRID	544950	4164550	2.65E-02	1.43E-04	4.10E-05	3.91E-06	2.10E-03	6.56E-03	3.12E-02	2.00E-05
603	GRID	544900	4164650	2.89E-02	5.70E-05	5.77E-05	2.12E-06	2.29E-03	8.75E-03	3.41E-02	1.00E-05
583	GRID	544950	4164500	2.89E-02	2.47E-04	4.39E-05	4.31E-06	2.31E-03	7.07E-03	3.43E-02	3.00E-05
576	GRID	544950	4164450	3.09E-02	5.59E-04	4.79E-05	5.77E-06	2.48E-03	7.81E-03	3.64E-02	6.00E-05

# **APPENDIX B**

# DISPERSION MODELING AND HEALTH RISK ASSESSMENT RUNS INPUT FILES

# 8/27/2011 11:00:31 PM

Urbemis 2007 Version 9.2.4

Detail Report for Summer Construction Mitigated Emissions (Pounds/Day)

File Name: G:\Sharp Park\New\URBEMIS\Construction4.urb924

Project Name: Sharp Park - Construction - 6-month Duration

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Summer Pounds Per Day, Mitigated)

PM2.5 Exhaust PM2.5 Total CO2	0.33 0.55 13,691.29		0.08	0.00	0.47 12	3.27	3.10 3.27 21.777.38	0.00	0.54	2.72	0.01 0.01 280.60	20.10	9.83			0.36	0.00	10.27	9.40	0.14	0.73	0.00 0.00 127.54	10.27	10.27		9.40	0.00 9.40 0.00 0.14 0.14 2,713.85
PM2.5 Dust	0.2	0.23	-		0.22							18.86			00.0									9.44	9.40		0.00
PM10 Total	1.00	1.00	0.08	00.0	0.91	3.87	3.87	00.0	0.58	3.27	0.02	91.55	45.52	45.00	0.08	0.43	00.0	46.03	45.00	0.15	0.88	0.01	46.03	46.03	45.00		CL.0
PM10 Exhaust	0.39	0.39	0.08	0.00	0.31	3.37	3.37	00.0	0.58	2.78	0.01	1.35	0.45	00.0	0.08	0.37	00.0	06.0	0.00	0.15	0.75	00.0	06.0	06.0	00.00	54.0	0.10
PM10 Dust	0.60	0.60	0.00	00.00	0.60	0.50	0.50	0.00	0.00	0.49	0.01	<u>90.20</u>	45.07	45.00	0.00	0.06	0.00	45.14	45.00	0.00	0.13	0.01	45.14	45.14	45.00	000	00.00
<u> 802</u>	0.12	0.12	00.00	00.00	0.12	0.13	0.13	00.00	00.00	0.13	00.0	0.05	0.02	0.00	0.00	0.02	0.00	0.04	0.00	0.00	0.03	0.00	0.04	0.04	0.00		00.0
잉	123.65	123.65	4.44	0.00	119.21	72.54	72.54	0.00	44.36	25.47	2.72	26.77	8.36	00.00	4.50	3.36	0.49	18.42	00.00	10.36	6.82	1.23	18.42	18.42	00.0	10 36	0.00
XON	18.32	18.32	11.80	0.00	6.52	153.21	153.21	0.00	75.64	77.42	0.15	59.80	16.47	0.00	6.22	10.22	0.03	43.33	0.00	22.52	20.75	0.07	43.33	43.33	0.00	22 ED	10.11
ROG	5.21	5.21	1.42	0.00	3.79	14.53	14.53	0.00	9.34	5.10	0.09	5.76	1.65	0.00	0.96	0.67	0.02	4.10	0.00	2.70	1.37	0.04	4.10	4.10	0.00	0 2 0	2.1
	Time Slice 5/1/2012-5/14/2012 Active	Building 05/01/2012-05/14/2012	Building Off Road Diesel	Building Vendor Trips	Building Worker Trips	Time Slice 5/15/2012-8/31/2012 Active	Mass Grading 05/15/2012-	Mass Grading Dust	Mass Grading Off Road Diesel	Mass Grading On Road Diesel	Mass Grading Worker Trips	Time Slice 9/3/2012-9/14/2012 Active	Mass Grading 09/01/2012-	Mass Grading Dust	Mass Grading Off Road Diesel	Mass Grading On Road Diesel	Mass Grading Worker Trips	Mass Grading 09/01/2012-	Mass Grading Dust	Mass Grading Off Road Diesel	Mass Grading On Road Diesel	Mass Grading Worker Trips	Time Slice 9/17/2012-9/28/2012 Active	Mass Grading 09/01/2012-	Mass Grading Dust	Mass Grading Off Road Diesel	

Page: 1 8/27/2011 11:00:31 PM											
Time Slice 10/1/2012-10/15/2012	5.21	18.32	<u>123.65</u>	0.12	0.60	0.39	1.00	0.22	0.33	0.55	13,691.29
Building 10/01/2012-10/15/2012	5.21	18.32	123.65	0.12	0.60	0.39	1.00	0.22	0.33	0.55	13,691.29
Building Urr Koad Diesel Building Vender Trins	1.42	11.80	4.44	0.00	0.00	0.08	0.08	0.00	0.08	0.08	1,370.68
Building Worker Trips	3.79	0.00 6.52	0.00 119.21	0.12 0.12	0.00	0.00	0.00	0.00 0.22	0.00 0.25	0.00 0.47	0.00 12,320.61
	Cons	struction Relate	Construction Related Mitigation Mee	leasures							
The following mitigation measures apply to Phase: Mass Grading 5/15/2012 - 8/31/2012 - Excavation/Grading	o Phase: Mass	s Grading 5/15/	/2012 - 8/31/201;	2 - Excavation/(	Gradina						
For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:	xposed surfac	es 2x daily wat	tering mitigation	reduces emissic	errore de la companya de la company La companya de la comp						
PM10: 55% PM25: 55%											
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:	ge haul road d	ust 2x daily wa	itering mitigation	reduces emissi	ions by:						
PM10: 55% PM25: 55%											
For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:	er (DPF) 1st Ti	er mitigation re	educes emission:	s by:							
PM10: 85% PM25: 85%											
For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions	DPF) 1st Tier	mitigation redu		by:							
PM10: 85% PM25: 85%											
For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation	el Particulate F	ilter (DPF) 1st	Tier mitigation re	reduces emissions by:	ns by:						
PM10: 85% PM25: 85%											
For Off Highway Tractors, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:	culate Filter (D	PF) 1st Tier m	iitigation reduces	emissions by:							
PM10: 85% PM25: 85%											
The following mitigation measures apply to Phase: Mass Grading 9/1/2012 - 9/30/2012 - Riffle Range Regrade	o Phase: Mass	: Grading 9/1/2	012 - 9/30/2012	- Riffle Range F	Regrade						
For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:	xposed surface	es 2x daily wat	ering mitigation r	educes emissic	ins by:						
PM10: 55% PM25: 55%											
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:	ge haul road di	ust 2x daily wa	tering mitigation	reduces emissi	ons by:						
PM10: 55% PM25: 55%											
For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: DM10. 85% DM25. 85%	er (DPF) 1st Ti	er mitigation re	educes emissions	s by:							
For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:	ilter (DPF) 1st	Tier mitigation	reduces emissic	ins by:							
PM10: 85% PM25: 85%		)									
The following mitigation measures apply to Phase: Mass Grading 9/1/2012 - 9/15/2012 - Culvert Placement	o Phase: Mass	Grading 9/1/2	012 - 9/15/2012	- Culvert Placer	nent						
For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by: DM10: 55% DM25: 55%	kposed surface	es 2x daily wat	ering mitigation r	educes emissio	ins by:						
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by:	te haul road di	iet 2v dailv wa	tering mitigation	roduces emissi	and hur						
PM10: 55% PM25: 55%	לב וומחו זימה	191 £A 44119		במתרפה מוווהסוי	uls uy.						
For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation PM10: 85% PM25: 85%.	I Particulate Fi	liter (DPF) 1st		reduces emissions by:	:Vd sı						
The following mitigation measures apply to Phase: Building Construction 5/1/2012 - 5/14/2012 - Install Barriers, Signage, Dewatering Ponds	o Phase: Buildi	ng Constructio	ın 5/1/2012 - 5/14	4/2012 - Install I	Barriers, Signa	ge, Dewatering	Ponds				

# 8/27/2011 11:00:31 PM

For Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%

The following mitigation measures apply to Phase: Building Construction 10/1/2012 - 10/15/2012 - Revegetation <sup>-</sup>or Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%

# Phase Assumptions

Phase: Mass Grading 5/15/2012 - 8/31/2012 - Excavation/Grading

Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 3443.04

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

3 Off Highway Tractors (267 hp) operating at a 0.65 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 9/1/2012 - 9/30/2012 - Riffle Range Regrade Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 5 Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 922.62

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day 3 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 9/1/2012 - 9/15/2012 - Culvert Placement

Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 5

Fugitive Dust Level of Detail: Default

8/27/2011 11:00:31 PM

20 lbs per acre-day

On Road Truck Travel (VMT): 454.55

Off-Road Equipment:

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Building Construction 5/1/2012 - 5/14/2012 - Install Barriers, Signage, Dewatering Ponds Off-Road Equipment:

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Building Construction 10/1/2012 - 10/15/2012 - Revegetation Off-Road Equipment:

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

# 8/27/2011 11:03:13 PM

# Urbemis 2007 Version 9.2.4

# Detail Report for Winter Construction Mitigated Emissions (Pounds/Day)

File Name: G:\Sharp Park\New\URBEMIS\Construction4.urb924

Project Name: Sharp Park - Construction - 6-month Duration

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

CONSTRUCTION EMISSION ESTIMATES (Winter Pounds Per Day, Mitigated)

		•									
	<u>ROG</u>	XON	8	<u> SO2</u>	PM10 Dust	PM10 Exhaust	PM10 Total	PM2.5 Dust	PM2.5 Exhaust	PM2.5 Total	C02
Time Slice 5/1/2012-5/14/2012 Active	5.21	18.32	123.65	0.12	0.60	0.39	1.00	0.22	0.33	0.55	13,691.29
Building 05/01/2012-05/14/2012	5.21	18.32	123.65	0.12	0.60	0.39	1.00	0.22	0.33	0.55	13,691.29
Building Off Road Diesel	1.42	11.80	4.44	0.00	0.00	0.08	0.08	0.00	0.08	0.08	1,370.68
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00
Building Worker Trips	3.79	6.52	119.21	0.12	0.60	0.31	0.91	0.22	0.25	0.47	12,320.61
Time Slice 5/15/2012-8/31/2012 Active	14.53	153.21	72.54	<u>0.13</u>	0.50	3.37	3.87	0.16	<u>3.10</u>	3.27	21,777.38
Mass Grading 05/15/2012-	14.53	153.21	72.54	0.13	0.50	3.37	3.87	0.16	3.10	3.27	21,777.38
Mass Grading Dust	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Off Road Diesel	9.34	75.64	44.36	0.00	0.00	0.58	0.58	0.00	0.54	0.54	7,635.08
Mass Grading On Road Diesel	5.10	77.42	25.47	0.13	0.49	2.78	3.27	0.16	2.56	2.72	13,861.70
Mass Grading Worker Trips	60.0	0.15	2.72	0.00	0.01	0.01	0.02	0.00	0.01	0.01	280.60
Time Slice 9/3/2012-9/14/2012 Active	5.76	59.80	26.77	0.05	<u>90.20</u>	1.35	<u>91.55</u>	18.86	1.24	<u>20.10</u>	9,091.81
Mass Grading 09/01/2012-	1.65	16.47	8.36	0.02	45.07	0.45	45.52	9.42	0.41	9.83	2,535.94
Mass Grading Dust	0.00	0.00	0.00	0.00	45.00	0.00	45.00	9.40	0.00	9.40	0.00
Mass Grading Off Road Diesel	0.96	6.22	4.50	0.00	0.00	0.08	0.08	00.0	0.08	0.08	654.92
Mass Grading On Road Diesel	0.67	10.22	3.36	0.02	0.06	0.37	0.43	0.02	0.34	0.36	1,830.00
Mass Grading Worker Trips	0.02	0.03	0.49	0.00	0.00	00.0	0.00	00.0	0.00	0.00	51.02
Mass Grading 09/01/2012-	4.10	43.33	18.42	0.04	45.14	0.90	46.03	9.44	0.83	10.27	6,555.87
Mass Grading Dust	0.00	0.00	0.00	0.00	45.00	0.00	45.00	9.40	0.00	9.40	00.0
Mass Grading Off Road Diesel	2.70	22.52	10.36	0.00	00.0	0.15	0.15	00.0	0.14	0.14	2,713.85
Mass Grading On Road Diesel	1.37	20.75	6.82	0.03	0.13	0.75	0.88	0.04	0.69	0.73	3,714.47
Mass Grading Worker Trips	0.04	0.07	1.23	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.54
Time Slice 9/17/2012-9/28/2012 Active	4.10	43.33	18.42	0.04	45.14	0.0	46.03	9.44	0.83	10.27	6,555.87
Mass Grading 09/01/2012-	4.10	43.33	18.42	0.04	45.14	06.0	46.03	9.44	0.83	10.27	6,555.87
Mass Grading Dust	0.00	0.00	0.00	0.00	45.00	0.00	45.00	9.40	00.0	9.40	0.00
Mass Grading Off Road Diesel	2.70	22.52	10.36	0.00	0.00	0.15	0.15	00.00	0.14	0.14	2,713.85
Mass Grading On Road Diesel	1.37	20.75	6.82	0.03	0.13	0.75	0.88	0.04	0.69	0.73	3,714.47
Mass Grading Worker Trips	0.04	0.07	1.23	0.00	0.01	0.00	0.01	0.00	0.00	0.00	127.54
Time Slice 10/1/2012-10/15/2012	5.21	18.32	<u>123.65</u>	0.12	09.0	0.39	1.00	0.22	0.33	0.55	13,691.29
Building 10/01/2012-10/15/2012	5.21	18.32	123.65	0.12	09.0	0.39	1.00	0.22	0.33	0.55	13,691.29

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Building Off Road Diesel Building Vender Tries	1.42	11.80	4.44	0.00	0.00	0.08	0.08	0.00	0.08	0.08	1,370.68
Building Worker Trips	3.79	0.00 6.52	0.00 119.21	0.12	0.00	0.00	0.00 0.91	0.00	0.00	0.00 0.47	0.00 12,320.61
	Cons	truction Relat	Construction Related Mitigation Measures	easures							
The following mitigation measures apply to Phase: Mass Grading 5/15/2012 - 8/31/2012 - Excavation/Grading For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:	:o Phase: Mass sxposed surface	s Grading 5/19 es 2x dailv we	5/2012 - 8/31/20 atering mitigation	112 - Excavatio 1 reduces emis	n/Grading sions by:						
PM10: 55% PM25: 55%	- - -		0		.6.2.2.2.2						
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%	ge haul road d	ust 2x daily w	atering mitigatio	n reduces emi	ssions by:						
For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%	er (DPF) 1st Ti	er mitigation	reduces emissio	ins by:							
For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emi PM10: 85% PM25: 85%	(DPF) 1st Tier	mitigation red	uces emissions by:	by:							
For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mit PM10: 85% PM25: 85%	el Particulate F	ilter (DPF) 1s	t Tier mitigation	igation reduces emissions by:	ions by:						
For Off Highway Tractors, the Diesel Particulate Filter (DPF) 1st Tier mitigation PM10: 85% PM25: 85%	iculate Filter (D	PF) 1st Tier r		reduces emissions by:	ż						
The following mitigation measures apply to Phase: Mass Grading 9/1/2012 - 9/30/2012 - Riffle Range Regrac For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by PM10: 55% PM25: 55%	o Phase: Mass xposed surface	. Grading 9/1/ es 2x daily wa	2012 - 9/30/201 atering mitigatior	30/2012 - Riffle Range Regrade titgation reduces emissions by:	e Regrade sions by:						
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%	ge haul road d	ust 2x daily w	atering mitigatio	n reduces emis	ssions by:						
For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%	er (DPF) 1st Ti	er mitigation r	reduces emissio	ns by:							
For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%	ilter (DPF) 1st	Tier mitigatio	n reduces emiss	sions by:							
The following mitigation measures apply to Phase: Mass Grading 9/1/2012 - 9/15/2012 - Culvert Placement For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by:	o Phase: Mass xposed surface	Grading 9/1// ss 2x daily wa	2012 - 9/15/201; itering mitigatior	15/2012 - Culvert Placement tigation reduces emissions by	cement sions by:						
PM10: 55% PM25: 55%											
For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by PM10: 55% PM25: 55%	ge haul road dı	ust 2x daily w	atering mitigatio	n reduces emis	ssions by:						
For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:	el Particulate Fi	ilter (DPF) 1st	t Tier mitigation	reduces emiss	ions by:						
FM10: 83% FM25: 85%											

The following mitigation measures apply to Phase: Building Construction 5/1/2012 - 5/14/2012 - Install Barriers, Signage, Dewatering Ponds For Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%

# 8/27/2011 11:03:13 PM

The following mitigation measures apply to Phase: Building Construction 10/1/2012 - 10/15/2012 - Revegetation

For Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%

# Phase Assumptions

Phase: Mass Grading 5/15/2012 - 8/31/2012 - Excavation/Grading

Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 0

Fugitive Dust Level of Detail: Default

20 lbs per acre-day On Road Truck Travel (VMT): 3443.04

Off-Road Equipment:

3 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

3 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

3 Off Highway Tractors (267 hp) operating at a 0.65 load factor for 8 hours per day

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

Phase: Mass Grading 9/1/2012 - 9/30/2012 - Riffle Range Regrade

Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 5

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 922.62

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day 3 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Mass Grading 9/1/2012 - 9/15/2012 - Culvert Placement Total Acres Disturbed: 66

Maximum Daily Acreage Disturbed: 5

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 454.55

Off-Road Equipment:

2 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 8 hours per day

# 8/27/2011 11:03:13 PM

Phase: Building Construction 5/1/2012 - 5/14/2012 - Install Barriers, Signage, Dewatering Ponds Off-Road Equipment:

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Building Construction 10/1/2012 - 10/15/2012 - Revegetation Off-Road Equipment:

1 Pumps (53 hp) operating at a 0.74 load factor for 8 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

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Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: G:\Sharp Park\New\URBEMIS\Construction4.urb924

Project Name: Sharp Park - Construction - 6-month Duration

Project Location: Bay Area Air District

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	ROG	NOX	잉	<u> SO2</u>	PM10 Dust PM1	<u>0 Exhaust</u>		PM2.5 Dust PM2.	5 Exhaust	PM2.5	C02
2012 TOTALS (tons/year unmitigated)	0.68	6.76	4.39	0.01	1.53	0.29	1.82	0.32	2 0.27	0.59	1,082.20
2012 TOTALS (tons/year mitigated)	0.68	6.76	4.39	0.01	0.70	0.15		0.15	0.14	0.29	1,082.20
Percent Reduction	00.0	0.00	0.00	00.0	54.00	49.58		53.41	49.65	51.70	0.00
Construction Mitigated Detail Report:											
CONSTRUCTION EMISSION ESTIMATES Approx Box Voor Million	Tope Der Veer	Miticatord									

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

M	0.70 0.15 0.85 0.15 0.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.02 0.13 0.15 0.01	0.00 0.00 0.00 0.00	
ROG	0.68	Building 05/01/2012-05/14/2012 0.03	Building Off Road Diesel	Building Vendor Trips	Building Worker Trips	Mass Grading 05/15/2012- 00/24/2012	0.00	

-

Mass Grading On Road Diesel	0.20	3.06	1.01	0.01	0.02	0.11	0.13	0.01	0.10	0.11	547.54
Mass Grading Worker Trips	0.00	0.01	0.11	00.0	00.0	0.00	00.0	0.00	0.00	0.00	11.08
Mass Grading 09/01/2012- 00/15/2012	0.01	0.08	0.04	0.00	0.23	0.00	0.23	0.05	0.00	0.05	12.68
Mass Grading Dust	0.00	0.00	0.00	0.00	0.23	0.00	0.23	0.05	0.00	0.05	0.00
Mass Grading Off Road Diesel	0.00	0.03	0.02	00.0	00.00	0.00	0.00	0.00	0.00	0.00	3.27
Mass Grading On Road Diesel	0.00	0.05	0.02	0.00	00.0	0.00	00.0	0.00	0.00	0.00	9.15
Mass Grading Worker Trips	0.00	0.00	0.00	0.00	00.00	0.00	0.00	0.00	0.00	00.0	0.26
Mass Grading 09/01/2012- 00/20/2012	0.04	0.43	0.18	0.00	0.45	0.01	0.46	60.0	0.01	0.10	65.56
Mass Grading Dust	00.0	0.00	00.0	0.00	0.45	0.00	0.45	0.09	0.00	0.09	0.00
Mass Grading Off Road Diesel	0.03	0.23	0.10	0.00	00.0	0.00	00.0	0.00	0.00	00.0	27.14
Mass Grading On Road Diesel	0.01	0.21	0.07	0.00	00.0	0.01	0.01	0.00	0.01	0.01	37.14
Mass Grading Worker Trips	0.00	0.00	0.01	0.00	00.0	0.00	0.00	0.00	0.00	00.0	1.28
Building 10/01/2012-10/15/2012	0.03	0.10	0.68	0.00	0.00	0.00	0.01	0.00	0.00	0.00	75.30
Building Off Road Diesel	0.01	0.06	0.02	0.00	00.00	0.00	0.00	00.0	0.00	00.0	7.54
Building Vendor Trips	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	00.00	0.00
Building Worker Trips	0.02	0.04	0.66	0.00	0.00	0.00	0.01	00.0	0.00	0.00	67.76

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Page: 1

# **Construction Related Mitigation Measures**

The following mitigation measures apply to Phase: Mass Grading 5/15/2012 - 8/31/2012 - Excavation/Grading For Soil Stabilzing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%

For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%

For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:

PM10: 85% PM25: 85%

For Graders, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%

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- For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%
- For Off Highway Tractors, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by: PM10: 85% PM25: 85%
- The following mitigation measures apply to Phase: Mass Grading 9/1/2012 9/30/2012 Riffle Range Regrade For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%
- For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%
- For Excavators, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
- PM10: 85% PM25: 85%
- For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
  - PM10: 85% PM25: 85%
- The following mitigation measures apply to Phase: Mass Grading 9/1/2012 9/15/2012 Culvert Placement En Soil Stabilizinn Measures the Water evonced surfaces 24 daily watering mitigation and considerate but
- For Soil Stablizing Measures, the Water exposed surfaces 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%
- For Unpaved Roads Measures, the Manage haul road dust 2x daily watering mitigation reduces emissions by: PM10: 55% PM25: 55%
- For Tractors/Loaders/Backhoes, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
  - PM10: 85% PM25: 85%
- The following mitigation measures apply to Phase: Building Construction 5/1/2012 5/14/2012 Install Barriers, Signage, Dewatering Ponds
  - For Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by
    - PM10: 85% PM25: 85%
- For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
  - PM10: 85% PM25: 85%
- The following mitigation measures apply to Phase: Building Construction 10/1/2012 10/15/2012 Revegetation
- For Pumps, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
  - PM10: 85% PM25: 85%
- For Water Trucks, the Diesel Particulate Filter (DPF) 1st Tier mitigation reduces emissions by:
  - PM10: 85% PM25: 85%



# SAN FRANCISCO PLANNING DEPARTMENT

# Compliance Checklist Greenhouse Gas Analysis

# A. GENERAL PROJECT INFORMATION:

Instructions: Complete Sections A and B, below. Generally, only projects within the City and County of San Francisco can apply for a determination of consistency with the GHG Reduction Strategy.

**Date**: August 17, 2011

Project name: Significant Natural Resource Areas Management Plan Case No: 2005.1912E

Project address and block and lot: Various locations within San Francisco

MEA planner: Jessica Range

### Brief Project description:

The San Francisco Recreation and Park Department (SFRPD) developed a Significant Natural Resource Areas Management Plan (SNRAMP), with the final draft plan published in February 2006. This SNRAMP contains detailed information on the biology, geology, and trails within 32 Natural Areas, 31 of which are in San Francisco and one of which (Sharp Park) is in Pacifica. The SNRAMP is intended to guide natural resource protection, habitat restoration, trail and access improvements, other capital projects, and maintenance activities over the next 20 years.

The proposed project, implementation of the SNRAMP, covers two categories of activity at Natural Areas in San Francisco: routine maintenance and programmatic projects, which are those projects that are not well defined at this time. The general actions under the SNRAMP that could affect emissions of greenhouse gases include operation of motorized equipment and the removal and replacement of invasive trees and other invasive vegetation with native trees and other native vegetation.

### **B. COMPLIANCE CHECKLIST TABLE**

Complete and attach to this form the appropriate compliance table by determining project compliance with the identified regulations and providing project-level details in the discussion column. Please note that Table 1 applies to Private Development Projects, Table 2 applies to Municipal Projects, and Table 3 is for plan-level analysis. Projects that do not comply with an ordinance/regulation may be determined to be inconsistent with San Francisco's qualified GHG reduction strategy.

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Planning Information: 415.558.6377 Compliance Checklist Table attached: Table 1. Private Development

\_\_\_

Table 2. Municipal Project

Table 3. Area Plan for \_\_\_\_

(specify area)

# C. DETERMINATION OF COMPLIANCE WITH CITY'S GHG REDUCTION STRATEGY

Project Complies with San Francisco's Strategies to Address Greenhouse Gas Emissions

Project Notes:

The proposed project would emit GHGs primarily during construction of individual programmatic projects. Operational activities are not proposed to increase substantially and therefore any increase in GHGs from project operations (routine maintenance) would be minimal. Construction related GHG emissions would be short term and nominal given the anticipated level of construction activity required for programmatic projects. Although many of the GHG regulations are not applicable to the activities proposed by SFRPD because of the nature of the project (which includes primarily restoration, erosion control, trail development, and invasive vegetation removal), the SFRPD complies with existing regulations, such as the commuter benefit ordinance, emergency ride home program, and the mandatory recycling and composting ordinance. Further, the Natural Areas Management Plan would comply with all applicable City regulations identified as reducing greenhouse gas emissions, including the clean construction ordinance, which requires use of cleaner construction equipment and B20 biodiesel. Therefore, the proposed project would comply with San Francisco's GHG Reduction Strategy.

Project Does Not Comply

If Project does not comply, provide discussion of non-compliant features:

Planner Name: Jessie Rauge	Date of Determination: <u>8/2-1/11</u>
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# SAN FRANCISCO PLANNING DEPARTMENT

# Compliance Checklist Table for Greenhouse Gas Analysis: Table 2. Municipal Projects

A. GENERAL PROJECT INFORMATION:

Date: August 17, 2011

Project name: Significant Natural Resource Areas Management Plan

Case No: 2005.1912E

Project address and block and lot: Various locations within San Francisco

Compliance Checklist Prepared By: John Bock, Tetra Tech

Date: August 17, 2011

# B. COMPLIANCE CHECKLIST TABLE

Instructions: Complete the following table by determining project compliance with the identified regulations and providing project-level details in the discussion column. Projects that do not comply with an ordinance/regulation may be determined to be inconsistent with San Francisco's qualified GHG reduction strategy.

### Table 2. Regulations Applicable to Municipal Projects

	Requirement	Project Compliance	Discussion
	Transporta	tion sector	
Commuter Benefits Ordinance (Environment Code, Section 421)	All City employees are offered commuter benefits for transit and vanpool expenses. The City Hall bike room provides secure bicycle parking, showers and lockers for bicycle commuters. City employees are also eligible for telecommuting and alternative work schedules.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	All City employees including San Francisco Recreation and Park Department (SFRPD) Natural Areas Program (NAP) staff are provided commuter benefits in accordance with Environment Code Section 421.
Emergency Ride Home Program	All City employees are automatically eligible for the emergency ride home program.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	All City employees, including NAP staff are automatically enrolled in the emergency ride home program.
Healthy Air and	Requires all new purchases or	Project	The SFRPD follows the vehicle

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	Requirement	Project Compliance	Discussion
Smog Ordinance (Environment Code, Chapter 4)	leases of passenger vehicles and light-duty trucks to be the cleanest and most efficient vehicles available on the market. There are also requirements for medium and heavy duty vehicles and for phasing out highly polluting vehicles (diesel MUNI buses).	Complies Complies Not Applicable Project Does Not Comply	requirements of this ordinance. This is addressed in Section 3b, Fleet – Fuel Use and Reduction Measures, of the San Francisco Recreation and Park Department Climate Action Plan Fiscal Year 2009-10.
Biodiesel for Municipal Fleets (Executive Directive 06-02)	Requires all diesel using City Departments to begin using biodiesel (B20). Sets goals for all diesel equipment to be run on biodiesel by 2007 and goals for increasing biodiesel blends to B100.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	For the locations under the Significant Natural Resource Areas Management Plan, the SFRPD is implementing the biodiesel requirements of this ordinance, as documented in Section 3b, Fleet – Fuel Use and Reduction Measures, of the San Francisco Recreation and Park Department Climate Action Plan Fiscal Year 2009-10.
Clean Construction Ordinance (Administrative Code, Section 6.25)	<ul> <li>Effective March 2009, all contracts for large (20+ day) City projects are required to:</li> <li>Fuel diesel vehicles with B20 biodiesel, and</li> <li>Use construction equipment that meet USEPA Tier 2 standards or best available control technologies for equipment over 25 hp.</li> </ul>	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	For all applicable contracts issued for work under the Significant Natural Resource Areas Management Plan, the NAP will include these requirements in its contract specifications, as required by the ordinance.
Bicycle Parking in City-Owned and Leased Buildings (Planning Code, Section 155.1)	<ul> <li>Class 1 and 2 Bicycle Parking Spaces</li> <li>Class 1 Requirements: <ul> <li>(A) Provide two spaces in buildings with 1-20 employees.</li> <li>(B) Provide four spaces in buildings with 21 to 50 employees.</li> <li>(C) In buildings with 51 to 300 employees, provide bicycle parking equal to at least five percent of the number of employees at that building, but no fewer than five bicycle spaces.</li> <li>(D) In buildings with more than 300 employees, provide bicycle parking equal to at least three percent of the number of employees at that building, but no fewer than five bicycle spaces.</li> <li>(D) In buildings with more than 300 employees, provide bicycle parking equal to at least three percent of the number of employees at that building, but no fewer than 16 bicycle spaces.</li> </ul> </li> </ul>	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project would not construct or renovate City-owned and leased buildings. Therefore, Planning Code Section 155.1 is not applicable to the proposed project

	Requirement	Project Compliance	Discussion
	bicycle parking.	· · · ·	
	Class 2 Requirements:		
	(A) In buildings with one to 40 employees, at least two bicycle parking spaces shall be provided.		
	(B) In buildings with 41 to 50 employees, at least four bicycle parking spaces shall be provided.		
	(C) In buildings with 51 to 100 employees, at least six bicycle parking spaces shall be provided.		
	(D) In buildings with more than 100 employees, at least eight bicycle parking spaces shall be provided. Wherever a responsible City official is required to provide eight or more Class 2 bicycle parking spaces, at least 50 percent of those parking spaces shall be covered.		
Bicycle parking in parking garages (Planning Code, Section 155.2)	(A) Every garage will supply a minimum of six bicycle parking spaces.	Project Complies	The proposed project does no involve parking garages. Therefore Planning Code Section 155.2 is no applicable to the proposed project.
	(B) Garages with between 120 and 500 automobile spaces shall provide one bicycle space for every 20 automobile spaces.	Not Applicable	
	(C) Garages with more than 500 automobile spaces shall provide 25 spaces plus one additional space for every 40 automobile spaces over 500 spaces, up to a maximum of 50 bicycle parking spaces.	Not Comply	
Transportation Management Programs (Planning Code, Section 163)	Requires new buildings or additions over a specified size (buildings >25,000 sf or 100,000 sf depending on the use and zoning district) within certain zoning districts (including downtown and mixed-use districts in the City's eastern neighborhoods and south of market) to implement a Transportation Management Program and provide on-site transportation management brokerage services for the life of the building.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project would not construct new buildings and would therefore not generate any greenhouse gas emissions as a result of vehicle trips generated by new buildings. Therefore, Planning Code Section 163 is not applicable to the proposed project.
	Energy Effici	ency Sector	L
Resource Efficiency and	The ordinance specifies requirements for all city buildings	Project	The proposed project would not construct or demolish buildings.

	Requirement	Project Compliance	Discussion
Green Building Ordinance (Environment Code, Chapter 7)	<ul> <li>as well as requirements for construction and demolition debris recycling, and requirement for new construction. All new construction must comply achieve at a minimum the LEED® Silver standard. These buildings are required to perform commissions to ensure achievement of design standards.</li> <li>All other buildings are required to meet the following minimum specifications related to energy efficiency:</li> <li>Toilets must use no more than 1.6 gal/flush</li> <li>Showerheads must use no more than 1.5 gal/ min.</li> <li>All lighting and electrical fixtures must meet specified requirements.</li> <li>All fluorescent lamps must be replaced</li> </ul>	Complies Not Applicable Project Does Not Comply	Therefore, this ordinance is not applicable to the proposed project.
Resource Efficiency and Green Building Ordinance (Environment Code, Chapter 7)	Waste Reduce The ordinance requires all demolition (& new construction) projects to prepare a Construction and Demolition Debris Management Plan designed to recycle construction and demolition materials to the maximum extent feasible, with a goal of 75% diversion.	Ction Sector □ Project Complies ⊠ Not Applicable □ Project Does Not Comply	The proposed project would not construct or demolish buildings. Therefore, this ordinance is not applicable to the proposed project.
Resource Conservation Ordinance (Environment Code, Chapter 5)	The ordinance specifies requires for all city buildings to provide adequate recycling space This ordinance establishes a goal for each City department to (i) maximize purchases of recycled products and (ii) divert from disposal as much solid waste as possible so that the City can meet the state-mandated 50% division requirement. Each City department	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	All City Departments, including the SFRPD, meet these resource conservation requirements.
	shall prepare a Waste Assessment. The ordinance also requires the Department of the Environment to prepare a Resource Conservation Plan that facilitates waste reduction and recycling. The ordinance requires janitorial contracts to consolidate recyclable materials for		

	Requirement	Project Compliance	Discussion
	pick up. Lastly, the ordinance specifies purchasing requirements for paper products.		
Mandatory Recycling and Composting Ordinance (Environment Code, Chapter 19)	The mandatory recycling and composting ordinance requires all persons in San Francisco to separate their refuse into recyclables, compostables and trash, and place each type of refuse in a separate container designated for disposal of that type of refuse.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	All City Departments, including the SFRPD, meet these recycling and composting requirements. Minor quantities of solid waste and recyclable material would be generated during the management of the Natural Areas. Unless it can be used to create wildlife habitat, all large woody debris generated by the NAP would be composted in Golden Gate Park. The wood chips may be used to suppress understory invasive vegetation or could be used as beneficial mulch on other revegetation projects in the Natural Areas. The proposed project does not include a residential component.
Construction Recycled Content Ordinance (Administrative Code, Section 6.4)	Ordinance requires the use of recycled content material in public works projects to the maximum extent feasible and gives preference to local manufacturers and industry.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project does not involve public works projects that could incorporate recycled content materials. Therefore, this ordinance is not applicable to the proposed project.
	Environment/Con	servation Sector	
Street Tree Planting Requirements for New Construction (Planning Code Section 143)	Planning Code Section 143 requires new construction, significant alterations or relocation of buildings within many of San Francisco's zoning districts to plant on 24-inch box tree for every 20 feet along the property street frontage	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project does not involve constructing or altering buildings. Therefore, Planning Code Section 143 is not applicable to the proposed project. For management actions in San Francisco, the proposed project would remove invasive trees and replace them on a one-to-one basis with native trees.
Environmentally Preferable Purchasing Ordinance (Formerly Precautionary Purchasing Ordinance)	Requires City Departments to purchase products on the Approved Green Products List, maintained by the Department of the Environment. The items in the Approved Green Products List has been tested by San Francisco City Depts. and meet standards that are more rigorous than ecolabels in protecting our health and environment.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	All City Departments, including the SFRPD, meet these purchasing requirements. The proposed project does not involve purchase of product types included on the Green Products List.

	Requirement	Project Compliance	Discussion
Tropical Hardwood and Virgin Redwood Ban (Environment Code, Chapter 8)	The ordinance prohibits City departments from procuring, or engaging in contracts that would use the ordinance-listed tropical hardwoods and virgin redwood.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project does not involve constructing or renovating buildings. Therefore, this ban is not applicable to the proposed project.
Wood Burning Fireplace Ordinance (San Francisco Building Code, Chapter 31, Section 3102.8)	<ul> <li>Bans the installation of wood burning fire places except for the following:</li> <li>Pellet-fueled wood heater</li> <li>EPA approved wood heater</li> <li>Wood heater approved by the Northern Sonoma Air Pollution Control District</li> </ul>	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project does not involve installation of fireplaces. Therefore, this ordinance is not applicable to the proposed project.
Regulation of Diesel Backup Generators (San Francisco Health Code, Article 30)	Requires: All diesel generators to be registered with the Department of Public Health All new diesel generators must be equipped with the best available air emissions control technology.	<ul> <li>Project Complies</li> <li>Not Applicable</li> <li>Project Does Not Comply</li> </ul>	The proposed project does not include a diesel generator. Therefore, this regulation is not applicable to the proposed project.

**Summary of Department Climate Action Plan**: For municipal projects only, provide a summary for the respective Department's Climate Action Plan as a separate attachment.

Summary of Department Climate Action Plan. 🛛 🛛 Included

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In the San Francisco Recreation and Park Department's climate action plans, the SFRPD actions to reduce operational greenhouse gas emissions toward the City's goal of an 80 percent reduction by 2050 include the following:

- Energy Efficiency and Conservation: The SFRPD is working with the Energy Efficiency Services of the San Francisco Public Utilities Commission (SFPUC) to reduce energy use through the selection of operational equipment such as electrical fixtures and sprinkler heads, design standards enforcement, and use of the San Francisco Greening Checklist for exterior spaces.
- Renewable Energy Generation: The SFRPD is working with the SFPUC to assess its facilities' solar potential and identify potential co-generation sites.

- Information Technology (IT): IT energy conservation measures include power management tools for all personal computers and monitors. The SFRPD plan includes full compliance by the third quarter of fiscal year 2010 with the City's adopted policy of the Committee on Information Technology (COIT).
- Green Building: The SFRPD plan includes compliance with the City's Environmental Code to achieve Leadership in Energy and Environmental Design (LEED®) certification.
- Fleets and Fuel: The SFRPD has identified specific plans to retire older vehicles to achieve fuel savings, maintenance cost savings, and lower residual costs for older vehicles. Further, the SFRPD only purchases clean light-duty passenger cars and trucks.
- Employee Commute: The SFRPD plan includes measures to reduce vehicle trips traveled by promoting alternative transportation incentives to its employees.
- Zero Waste: The SFRPD is close to realizing its goal of 100 percent compliance with the City's recycling initiative.
- Green Product Purchasing: The SFRPD uses the City's Approved Catalog to purchase environmentally conscious products.
- Carbon Sequestration: The SFRPD promotes the City's urban forestry program through tree planting campaigns and supports other City departments in their participation in the urban forest program.
- Community Wide Emissions: The SFRPD actions include providing community support to reduce greenhouse gas emissions through programs related to recycling, biodiversity, bicycling, and community education. To encourage recycling, the SFRPD is currently posting signs at all facilities to educate users on the importance of recycling and directing them on where to place their recyclables. For biodiversity, the NAP and SFRPD volunteer programs maintain and enhance natural biodiversity at many of SFRPD's park sites. Related to bicycling, the SFRPD will promote bicycling to and within SFRPD facilities by installing bike parking racks and SF Bicycle Route maps at all facilities and by providing bicycle access and program information on the SFRPD website and other publications. The community education efforts include holding recycling education seminars at SFRPD recreation facilities.