ODEQ Prevention of Significant Deterioration/Air Contaminant Discharge Permit Application

Appendix D - Air Quality Impact Assessment

Intel Corporation Gordon Moore Park at Ronler Acres/Aloha Project



Submitted to

Oregon Department of Environmental Quality

Submitted by



Prepared by

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INTRODUCTION AND PROJECT DESCRIPTION

Intel Corporation (Intel) operates the Gordon Moore Park at Ronler Acres (also referred to as Ronler and Ronler Acres in this document) and Aloha semiconductor manufacturing facilities (together, the Facility) in Washington County, Oregon. The Gordon Moore Park at Ronler Acres campus is located at 2501 NE Century Boulevard, Hillsboro, Oregon, which has a Universal Transverse Mercator (UTM) North American Datum (NAD) 83 coordinate of 506601.5 meters Easting, 5043404.5 meters Northing (Zone 10). The Aloha campus is located at 3585 SW 198th Avenue, Aloha Oregon, and has a UTM NAD 83 coordinate of 509003.2 meters Easting, 5037811.5 meters Northing (Zone 10) latitude /longitude of 122.8851359° W, 45.4937841° N. The Aloha campus has been operating since 1976 while the Gordon Moore Park at Ronler Acres campus began operation in 1994. Both campuses are engaged in the production of semiconductor products and are considered co-located for permitting purposes because their production activities are interrelated. Both campuses are regulated under a single Standard Air Contaminant Discharge Permit (ACDP), 34-2681-ST-01, issued by the Oregon Department of Environmental Quality (ODEQ) in 2016 and most recently modified in 2022.

The modeling report is part of the Type 4 Maintenance Area New Source Review (NSR) and Prevention of Significant Deterioration (PSD) permit application. The application is in support of the proposed changes at the Facility which meet the definition of "major modification" in OAR 340-224-0025 (the "Project"). Changes at the Facility include additional fabrication (fab) cleanroom space and increased emissions at the existing fabs due to advances in technology manufacturing and additional manufacturing support operations. The proposed major modification triggers the Maintenance Area NSR requirements in OAR 340-224-0060 and the PSD requirements in OAR 340-224-0070. A common requirement of both sets of requirements is the need to demonstrate that the proposed changes will not cause or contribute to an exceedance of the National Ambient Air Quality Standards (NAAQS) and PSD increments. Modifications subject to Division 224 requirements must be permitted as Type 4 construction approvals.

This modeling supplement describes the modeling steps, methods and assumptions that were performed to support the Type 4 construction approval permit application. The modeling presented in this report is based on the modeling protocol that was submitted and then approved by the ODEQ on June 15th, 2023. The modeling protocol was also reviewed by the United States Environmental Protection Agency (EPA) Region 10, the United States Forest Service (USFS) and the United States Park Service (USPS). The modeling followed the methods presented in the ODEQ "Recommended Procedures for Air Quality Dispersion Modeling" (March 2022). Table 1 summarizes the proposed analyses on a pollutant specific basis. The modeling also followed procedures as summarized by the EPA Appendix W modeling guidelines. Additional guidance procedures are summarized below and throughout the text: EPA in its "Guideline on Air Quality Models" (including supplements), EPA Memorandum "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO2 National Ambient Air Quality Standard" (March 2011), EPA Memorandum "Clarification on the Use of AERMOD Dispersion Modeling for Demonstrating Compliance with the NO₂ NAAQS" (September 2014) " EPA Memorandum "Guidance for Ozone and Fine Particulate Matter Permit Modeling" (July 2022), EPA Memorandum "Modeling Procedures for Demonstrating Compliance with PM-2.5 NAAQS (March 2010) and the California Air Pollution Control Officers Association (CAPCOA) "Modeling Compliance of the Federal 1-Hour NO2 NAAQS" (October 2011).



Table 1 Air Quality Modeling Criteria							
NO _x PM-10 PM-2.5 CO SO ₂							
PSD Significant Impact Levels for Class I And Class II Areas	х	x	х	х			
Ambient Air Quality Standards	х	х	х	x	х		
Class I and Class II Visibility and Deposition	Х	х	х				
Impacts to Soils and Vegetation	Х	х	х	х			
Class I and Class II Area Increment	х	х	x				
The Project will also be major for VOCs; this analysis addressed ozono	e impacts from	n emissions of N	IO _x and VOCs.				

A copy of the modeling protocol and the ODEQ protocol approval letter is included in Attachment A. All input and output modeling files will be provided to the ODEQ using an on-line share drive.

Permit Applicability

Secondary formation of PM-2.5 and Ozone were also assessed with MERPS.

The locations of the Gordon Moore Park at Ronler Acres and Aloha campuses are shown in Figure 1. The detailed site plans are presented in Figures 2 and 3, respectively. The Gordon Moore Park at Ronler Acres and Aloha campuses are located in Washington County, Oregon. The area in which the campuses are located is designated as attainment or unclassified for all criteria pollutants except carbon monoxide (CO) and ozone, for which the area is designated as maintenance.

The Facility is an existing source that will become a Federal Major Source as a result of the proposed changes because emissions of one or more regulated pollutants will increase above the Federal Major Source levels. A major modification at a facility that will become a Federal Major Source triggers the requirements of Oregon's PSD permitting program for each pollutant for which the area is designated attainment or unclassified (OAR 340-224-0070(3)(a)(A)). These requirements include the obligation to conduct an air quality analysis for each regulated pollutant for which emissions will exceed the netting basis by a Significant Emission Rate (SER) or more. Based on the proposed Plant Site Emission Limits, the Facility is required to perform a PSD air quality impacts analysis in accordance with OAR 340-225-0070(3) for NO_x, PM-10 and PM-2.5.

The proposed modifications also trigger requirements of Oregon's Maintenance Area NSR program because it is located within the Oregon portion of the Portland-Vancouver Interstate Maintenance Area for ozone and the Portland Maintenance Area for CO, and the proposal constitutes a major modification for CO and ozone precursors (VOC and NO $_{\rm x}$). Maintenance area NSR requirements are triggered for each major modification of a maintenance pollutant. Major modifications for ozone precursors (NO $_{\rm x}$ and VOC) constitute major modifications for ozone. A major modification of a maintenance pollutant must comply with the maintenance area NSR requirements at OAR 340-224-0060, including the requirement to demonstrate that it will not cause or contribute to an exceedance of the NAAQS. The Facility will meet its NAAQS compliance obligation in part by ensuring a net air quality benefit in compliance with OAR 340-224-0060(2) by offsetting its CO, NO $_{\rm x}$ and VOC emissions via an allocation from the growth allowance



program. In addition, the Facility modeled its CO emissions and evaluated ozone impacts, which are independent of the net air quality benefit resulting from offsetting those emissions.

ODEQ requires sources¹ to demonstrate compliance with the short-term NAAQS (specifically, 24-hr PM-10 and PM-2.5, 1-hr SO₂ and 1-hr NO₂) if the Facility's Project triggers NSR for any pollutant and the Facility-wide short-term emissions are greater than the Significant Emission Threshold (SETs). This project triggers those requirements for short-term NAAQS. Thus, the short-term NAAQS evaluation for NO₂, PM-10 and PM-2.5 as required by the PSD and Maintenance Area NSR regulations described above was performed. Although the project SO₂ emissions do not require an air quality assessment under the PSD regulations, the short-term Facility wide SO₂ emissions are over the SO₂ SET of three (3) pounds per hour (lbs/hr) and SO₂ NAAQS compliance was evaluated for 1-hr, 24-hr and annual averaging periods.

Project Description and Source Emissions Data

The manufacturing process occurs in a cleanroom environment to avoid micro contamination of the product. Semiconductors are fabricated in batches of silicon wafers and can take anywhere from one to two months to manufacture. Semiconductor manufacturing begins with a silicon wafer substrate. The semiconductor is then built up as a series of layers, with material added or removed in each step. Steps include:

- Oxidation: Involves the generation of a silicon dioxide layer on the wafer surface to provide
 a base for the photolithography process. This layer also insulates and protects the wafer
 during subsequent processing.
- Lithography: Starts with the application of a photo sensitive layer onto the wafer. Then, a photomask is placed over the wafer and light is projected onto the wafer to form patterns of exposed and unexposed photoresist (e.g., the electrical pattern). After exposure, the wafer is developed in a solution that dissolves the exposed photoresist, leaving those areas exposed for subsequent processing steps. The unexposed photo-resistant coating remains on the water, thus protecting the surface.
- Ion Implant: Doping the wafer with ions to make it conductive or insulating at selected locations.
- Etching: Wet or dry etching techniques are used to remove unwanted material on certain areas on the wafer. After etching, photoresist is removed using dry or liquid stripping compounds.
- Deposition: Applies additional layers of silicon, silicon dioxide, or other materials to the wafer
- Planar: A surface treatment process which prepares the wafer for subsequent processing steps. A mildly corrosive chemical slurry is used as a polishing compound.

During the fabrication process, many of these steps are repeated multiple times in various sequences with variations in each step. Once the manufacturing is completed, the wafers are tested and cut into individual chips. The semiconductor chips are then sorted, assembled, tested, and packaged.

Manufacturing operations occur 24 hours a day and 365 days a year. However, production output varies with consumer demand and stage of process development.

¹ See Oregon DEQ, "Short-Term NAAQS Compliance Internal Management Directive" signed September 1, 2021 and Oregon DEQ, "Recommended Procedures for Air Quality Dispersion Modeling", March 2022.





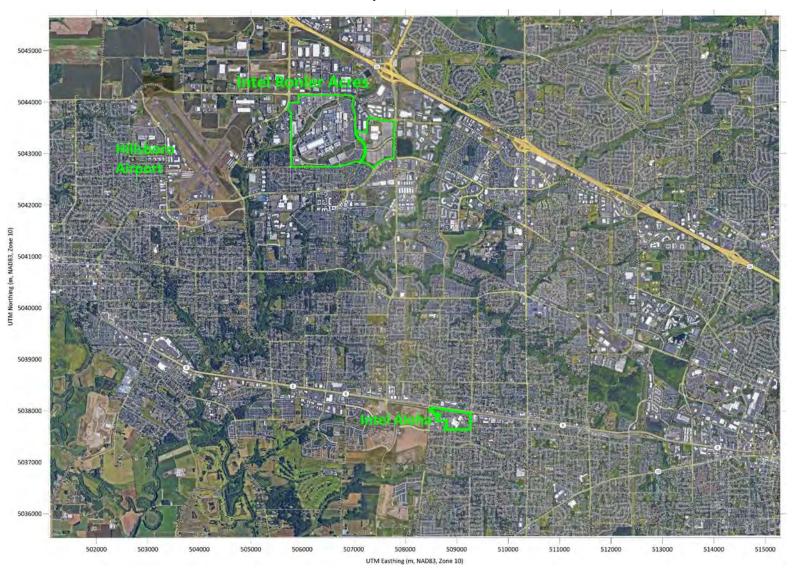


Figure 1
Project Locations



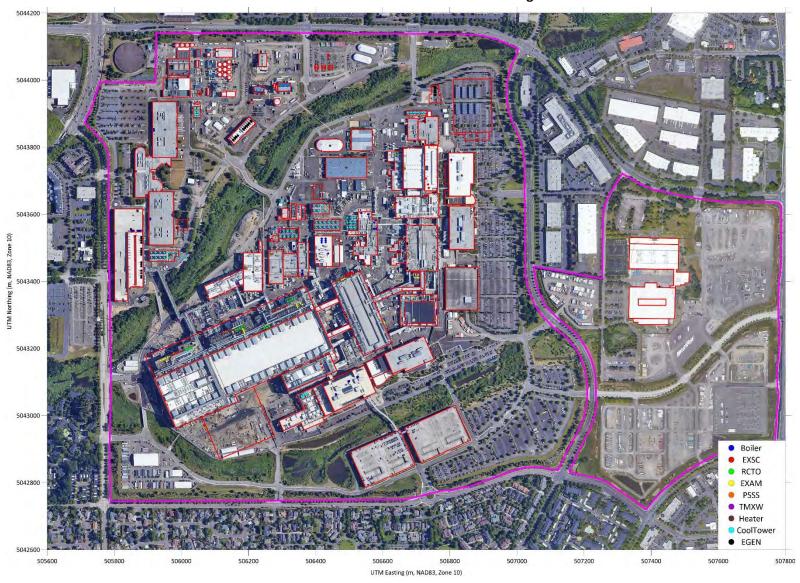


Figure 2
Gordon Moore Park at Ronler Acres General Arrangement



UTM Northing (m, NAD83, Zone 10) 2032800 – UTM Easting (m, NAD83, Zone 10)

Figure 3
Aloha General Arrangement



There are a number of utility support systems that support Fab manufacturing operations. These include:

- Natural gas-fired rotor concentrator thermal oxidizers (RCTOs) are used to control volatile organic compounds (VOC) emissions from the Fabs.
- Packed-Bed Wet Chemical Scrubbers for controlling acid gases used in the Fab.
- Trimix Ammonia Treatment Systems are used to treat ammonia wastewater.
- Large natural gas-fired boilers (>2.0 million BTU per hour).
- Small natural gas-fired heating units and boilers (<2.0 million BTU per hour).
- Diesel-fired emergency generators and fire pumps.
- Wet cell cooling towers.
- Bulk Chemical Distribution including bulk and specialty gases.

Below is a summary description of the emission points that were used in the modeling analyses. Unless noted below, the sources operate 24 hours per day, 365 days per year.

Rotor Concentrator Thermal Oxidizers (RCTOs)

RCTOs consist of two main components: a concentrator that uses zeolite wheels to adsorb VOCs from the Fab exhaust and a thermal oxidizer that oxidizes the VOCs into water and carbon dioxide. The RCTOs are a source of natural gas combustion byproducts, CO₂, and VOCs that are not adsorbed by the zeolite concentrator. Each RCTO stack was included in the model as a point source. Some of the newer RCTOs exhaust to the acid scrubbers that then pass through a wet electrostatic precipitator (WESP) for additional PM control. A WESP works by charging particles as they enter the unit and collecting them on electrodes within the WESP body. Assumptions used in estimating RCTO air emissions include the following:

- Hourly emissions assume the RCTOs are operating at maximum rated capacity.
- Annual emissions are based on an annual operating capacity of 100% of the maximum rated capacity.
- All PM emissions are assumed to be PM-10 and PM-2.5.

Packed-Bed Wet Chemical Scrubbers (Scrubbers)

Each Fab has several scrubbers that treat acid or ammonia-containing Fab process exhaust. The exhaust passes through a packed bed with reagent flowing through the bed. A substantial portion of the acid or ammonia gases in the exhaust are transferred out of the air stream into the reagent stream. The treated exhaust streams are then sent out to the atmosphere via a manifold with between one (1) and five (5) stacks.

Trimix Ammonia Treatment System (TMXW)

The TMXW system is an ammonia wastewater treatment system that includes gas-phase ammonia abatement. Ammonia wastewater is pH adjusted and fed to an ammonia stripper. The ammonia stripper is a desorption process that removes ammonium ions out of the water to produce gas-phase ammonia. The gas-phase ammonia is exhausted to a two-stage thermal catalytic oxidation/reduction system. The first catalyst converts ammonia to NO_x and CO to carbon dioxide. The second catalyst converts NO_x to nitrogen and water. Air emissions from this system include natural gas combustion byproducts and ammonia. The air emissions exit to ambient air via a stack. Each emission point was modeled separately.

Boilers

The boilers supply hot water to the various buildings and manufacturing processes. All of Intel's boilers are natural gas fired. Air emissions from the boilers are those associated with natural gas combustion. As a result of natural gas combustion, the boilers are a source of criteria pollutant emissions. Assumptions used in calculating boiler air emissions include the following:



- Hourly emissions assume the boilers are operating at maximum rated capacity.
- Annual emissions are based on an annual operating capacity of 30%.

Emergency Generators and Fire Pumps

In addition to backing up all critical Life Safety Systems, emergency generator back-up systems required by code and business continuity needs at the Facility, are located onsite, in the event of an unplanned primary power outage. The generators combust ultra-low-sulfur diesel and are routinely tested to ensure proper operation. For permitting purposes, air emissions are limited to periods when the emergency equipment is tested and maintained. The current permit specifies that no more than ten generators may be run in any single day and the generators can only be run during daylight hours, which is defined as the hours between 8 am and 6 pm. The emergency generators and fire pumps were modeled as described later in this report.

- Hourly emissions assume the engines are operated at full load.
- Annual emissions are based on the emergency generators operating for 25 hours per year.
- Annual emission for the fire pumps are all based on 50 hours per year.

Cooling Towers

The Facility has mechanically induced (i.e., fan-driven) wet-cell cooling towers that are open to the atmosphere. The cooling towers are used to dissipate the large heat loads generated by the factory and the chilled water is used to condition the incoming air to the correct temperature required by the factory. The cooling towers are a source of particulate matter. The total dissolved solids (TDS) entrained in drift droplets emitted from the cooling towers are a source of PM emissions. Cooling towers were modeled in two specific ways:

- Cooling towers with a single fan were modeled using one stack located in the fan center and the maximum design flow and actual fan diameter were used for the stack parameters.
- Some of the multiple fans that are part of a single cooling tower assembly were modeled using a single stack located in the center of the assembly. The maximum design flow from the cooling tower assembly will was divided by the number of fans to get the representative flow. The diameter for the representative stack was assigned the diameter of a single fan.

Lime Silos

Dry lime (calcium hydroxide) used in wastewater treatment operations is delivered to and stored in lime silos. There are five (5) lime silos on site. During filling, the silos are a source of PM emissions as air is displaced by the lime being loaded. Each silo is equipped with an exhaust vent, which is controlled by a fabric filter dust collector. For the five lime silo bin vents, PM-10 and PM-2.5 emissions from all five sources were modeled as a single volume source that was located midpoint between the existing lime silo bin vents. Assumptions used in the modeling include:

- Lime silos will only emit during loading operations which will occur no more than 1 hour per day with only one silo being loaded on any given hour or day. On an annual basis, there will be no more than 52 loading operations per year per silo.
- All emissions of particulate matter are assumed to be PM-10 and PM-2.5 in accordance with ODEQ guidance.



Paved Road Sources

Area source emissions, primarily associated with paved road emissions of particulate matter, created from the on-site road/vehicle travel was also included in the modeling assessments.

• Fugitive dust emissions are assumed to occur 24-hours per day and 8,760 hours per year.

Stack Parameters

The stack parameters (flow rates, temperatures, stack heights, velocities) used in modeling were determined from source testing, manufacturing specification guarantees, or worst-case assumptions. These are listed in Attachment B.

Emissions Summary

Based on the potential to emit emission summary provided in Table 2, the following pollutants are subject to air quality assessments as described in this report: Nitrogen Dioxide (NO_x), Carbon Monoxide (CO), Sulfur Dioxide (SO_2), Particulate Matter with an aerodynamic diameter of 10 microns or less (PM-10), Particulate Matter with an aerodynamics diameter of 2.5 microns or less (PM-2.5 and Volatile Organic Compounds (VOCs). NO_x and SO_2 will also be treated as a precursor to PM-2.5 while NO_x and VOC will be treated as an Ozone precursor.

	Table 2 Ronler and Aloha Potential to Emit Summary						
Ronler and Aloha Plant Site Emission Limit	NO_x	СО	VOC	TSP as PM	PM-10	PM-2.5	SO ₂
Summary	tpy	tpy	tpy	tpy	tpy	tpy	tpy
Boilers	19.69	58.64	8.55	3.89	0.81	0.67	4.04
EGENS/Fire Pumps	52.45	4.29	0.96	0.48	0.48	0.48	0.05
RCTOs	80.73	106.28	150.01	19.05	19.05	19.05	2.10
EXSC Scrubbers	192.68	327.92	36.92	28.25	27.25	25.65	26.77
EXAM Scrubbers	43.45	81.51	86.51	13.55	8.54	8.27	0.77
PSSS Scrubbers	0	0	0	0.71	0.44	0.001	0
Fugitive VOCs	0	0	65.82	0	0	0	0
Heaters	10.41	17.13	0.57	0.26	0.26	0.26	0.27
TMXW	12.23	1.10	0.20	0.09	0.09	0.09	0.09
Lime Silos	0	0	0	0.44	0.44	0.44	0
Cooling Towers	0	0	0	8.81	7.19	0.03	0
Aggregate insignificant activities	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Paved Road Emissions	0	0	0	0.75	0.15	0.04	0
Total	412.6	597.9	350.5	77.3	65.7	56.0	35.1
Current PSEL	197.0	229.0	178.0	41.0	35.0	31.0	39.0



Requested PSEL ^a	402	580	349	67	57	55	39
Increase	205	351	171	26	24	25	0
SER	40	100	40		15	10	40
Major Modification	Yes	Yes	Yes	Yes	Yes	Yes	No
Modeling Required	Yes	Yes	NA	NA	Yes	Yes	Yes

^a Requested PSEL not to include categorically insignificant Activities including Heaters, Paved Roads, and Cooling Towers

PROPOSED AIR QUALITY DISPERSION MODELS

Air Quality Models/Version: The primary EPA dispersion model that was used is the AERMOD modeling system (AERMOD version 22112) with the associated meteorological and receptor processing programs AERSURFACE (version 20060), AERMET (version 22112), AERMINUTE (version 15272), and AERMAP (version 18081). AERMOD was used to quantify pollutant impacts on the surrounding environment based on the emission sources operating parameters and their locations and was used for modeling most Facility operational impacts in both simple and complex terrain. In addition, the Building Profile Input Program for PRIME (BPIP-PRIME version 04274) was used for determining building dimensions for downwash calculations in AERMOD. These models, along with options for their use and how they are used, are discussed below. These models were used for the following:

- Comparison of Facility impacts to Class I and Class II significant impact levels (SILs)
- Significant Monitoring Concentrations (SMCs)
- National Ambient Air Quality Standards (NAAQS)
- PSD Increments for 24-hour PM-2.5, PM-10 and annual NO₂
- Cumulative impacts analyses in accordance with ODEQ and EPA modeling requirements, if required (project impacts greater than SILs)

EXISTING METEOROLOGICAL AND AIR QUALITY DATA

Hourly observations of certain meteorological parameters are used to define the area's dispersion characteristics. This data is used in EPA approved air dispersion models for defining a project's impact on air quality. These data must meet certain criteria established by the EPA and the following discussion details the proposed data and its applicability to this Project.

<u>Project Location/Topography:</u> Both the Gordon Moore Park at Ronler Acres and Aloha Project sites are located in the Tualatin Valley which is a relatively flat river bottom area that is surrounded by terrain to the north, west and east. Very little variation in terrain exists in the valley until the area abuts the mountain ranges surrounding it on three sides.

<u>Nearby Surface Meteorological Stations:</u> The Gordon Moore Park at Ronler Acres site is located in the northeastern portion of the Tualatin Valley, approximately 2.25 kilometers (km) east of the Hillsboro Airport. The Aloha site is located approximately 6.5 km southeast of the Hillsboro Airport. The Hillsboro Airport (WBAN 94261) collects ASOS (Automated Surface Observing System) surface meteorological data such as wind speed and direction, temperature, pressure, cloud heights, and sky cover. ASOS surface



meteorological data are generally selected for processing for AERMOD because ASOS hourly data are routinely recorded and archived, generally meet EPA data completeness criteria, instruments are located in unobstructed areas meeting EPA siting criteria, and instrument heights and sensor sensitivities meet EPA instrument specifications. Also, short-term (1-minute) wind direction and speed data are generally available that can be processed by EPA programs to eliminate excessive calm observations and to give hourly averages consistent with EPA modeling requirements. The ASOS surface data, when processed with AERMET as described below, result in data recovery greater than 90 percent for every quarter in the five-year period in accordance with EPA requirements "Meteorological Monitoring Guidance for Regulatory Modeling Applications," (EPA-454/R-99-005). Generally, surface data parameters of wind speed, wind direction, and temperature must individually exceed 90% both by quarter and year, as well as wind speed, direction, and stability (turbulence) parameters combined, before any substitutions. These criteria are equaled for all quarterly/annual periods of the surface data selected for use, which covers the years 2016 through 2020.

<u>Selection of Surface Meteorological Data:</u> As noted above, the Project vicinity and immediate areas of Tualatin Valley are relatively flat, an important consideration in the selection of surface meteorological data for use in assessing the Project's impacts on regional air quality. Under these circumstances (large expanses of relatively flat terrain), the nearest meteorological data meeting EPA siting and instrument criteria would be expected to be the most representative of the Project location. The ASOS data fulfills both criteria, being located in the immediate Project vicinity and meeting EPA siting and instrument criteria. Thus, the Hillsboro Airport ASOS data are proposed as the surface meteorological data for modeling Facility emissions. The close proximity of the ASOS station to the Project sites virtually assures that it could be considered representative, if not the equivalent of onsite data.

Both the ASOS and Ronler Acres/Aloha sites are located in the relatively flat Tualatin Valley at nearly identical distances and orientations from the relatively distant mountains which define the valley boundaries. There are no intervening terrain features between the ASOS location and project site to adversely affect the relative synoptic-scale wind patterns at either location (compared to each other). The current ASOS location from the NCDC Historical Observing Metadata Repository (HOMR) was verified and then refined to its exact location based on Google Earth photos (location is shown below).

<u>Selection of Upper Air Meteorological Data:</u> The most representative radiosonde observations nearest to the Project sites is the Salem Airport (McNary Field), located approximately 65 km south of the Project sites. Climatologically, Salem is similar to the Intel Project sites. Twice daily radiosonde data were available for the proposed modeled years of 2016 through 2020.

Meteorological Data Surface Characteristics: AERMET requires input summaries of the surface characteristics for the area surrounding the Hillsboro ASOS monitoring site. These surface characteristics were calculated with the EPA-program AERSURFACE program based on EPA guidance. AERSURFACE used the 2016 National Land Cover Data (NLCD) from the United States Geological Survey (USGS) to determine land use based on standardized land cover categories. AERSURFACE was executed in accordance with the EPA guidance documents "AERMOD Implementation Guide," (March 19, 2009), and "AERSURFACE User's Guide," (EPA-454/B-20-008, revised February 2020). AERSURFACE determines the midday albedo, daytime Bowen ratio, and surface roughness length representative of the surface meteorological station. The Bowen ratio is based on a simple unweighted geometric mean while albedo is based on a simple unweighted arithmetic mean for the 10x10 km square area centered on the selected location (i.e., no



direction or distance dependence for either parameter). *Surface roughness length* is based on an inverse distance-weighted geometric mean for upwind distances up to the EPA-recommended one (1) km radius from the selected location. The circular surface roughness length area (1-km radius) can be divided into any number of sectors as appropriate (EPA guidance recommends that no sector be less than 30° in width).

Twelve 30° sectors were processed to calculate the roughness lengths due to the homogeneity of the area within the EPA-recommended radius of one (1) km. Months were assigned to seasons as follows:

- Late autumn after frost and harvest, or winter with no snow: December, January, February
- Transitional spring (partial green coverage, short annuals): March-June
- Midsummer with lush vegetation: July-August
- Autumn with unharvested cropland: September-November

Temporal variations of monthly precipitation were considered in order to calculate the albedo for AERMET processing in accordance with EPA recommendations. Precipitation data should be measured at the nearest representative location to the surface data with the most complete precipitation record, particularly for the years of meteorology being modeled. Historical precipitation data are measured in the Hillsboro area (at Hillsboro Airport) and the monthly periods between 1991 to 2020 were used as input AERSURFACE and are presented in Table 3.

<u>Site Urban/Rural Classification:</u> Land use surrounding the Intel sites must be determined in order to assess if rural or urban dispersion characteristics should be used. Following Auer (1977) and as summarized in the EPA's "Guideline on Air Quality Models", if the land use within an area circumscribed by a three (3) km radius around each facility is industrial, commercial, or developed residential, then these areas are designated as urban. All other types of land use are considered rural.

The most objective approach is to use the 2016 land cover classification data (the same data set as used in AERSURFACE) and designate the "Developed Intensity" areas (IDs 22, 23 & 24) as urban based on Auer's classification. These classes are:

- Developed, Low Intensity (NLDC Code 22) areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20 to 49 percent of total cover. These areas most commonly include single-family housing units.
- Developed, Medium Intensity (NLCD Code 23) This classification includes areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50 to 79 percent of the total cover.
- Developed, High Intensity (NLCD Code 24) This classification includes highly developed areas
 where people reside or work in high numbers. Examples include apartment complexes, row
 houses and commercial/industrial. Impervious surfaces account for 80 to 100 percent of the total
 cover.



						Tak	ole 3							
		- E	Hillsbord	Airpo	rt 30-ye	ar Prec	ipitatio	n Clima	tology	Summa	ry			
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANN	SMC
1991	3.01	3.84	3.67	4.88	2.34	1.7	0.25	0.65	0.39	1.66	5.66	4.76	32.81	
1992	4.65	3.7	1.17	4.06	0.13	0.36	0.77	0.31	1.21	2.47	4.54	6.44	29.81	
1993	4.27	0.87	3.77	5.03	3.52	2.68	1.49	0.16	0	1.08	1.26	7.54	31.67	
1994	4.42	5.06	2.85	1.18	1.15	0.94	0	0.42	0.6	6.48	6.32	6	35.42	
1995	8.63	3.47	5.37	3.96	1.35	1.8	0.98	0.39	1.57	2.91	8.32	7.82	46.57	
1996	7.56	10.23	2.93	4.63	4.34	0.97	0.58	0.13	2.96	4.22	9.21	14.83	62.59	
1997	7.67	2.03	6.33	2.18	2.01	2.07	0.73	1.59	3.15	5.45	5.91	3.34	42.46	
1998	8.36	6.64	4.07	1.3	4.77	1.41	0.32	0	0.87	6.4	9.03	7.07	50.24	
1999	7.48	9.78	4.29	1.5	1.74	1.55	0.66	0.84	0.14	2.49	6.91	3.91	41.29	
2000	6.92	4.35	3.02	1.36	1.91	1.04	0.08	0.75	1.27	3	2.16	3.24	29.1	
2001	1.94	1.58	2.33	1.86	0.85	1.2	0.45	0.79	0.79	3.13	8.54	6.98	30.44	
2002	7.31	3.13	3.49	1.71	1.44	1.3	0.32	0.05	0.83	0.43	2.61	9.88	32.5	
2003	8.29	2.93	5.16	5.91	0.75	0.15	0	0.55	0.94	3.07	4.43	7.93	40.11	
2004	5.9	4.27	1.68	1.79	1.24	0.82	0	2.31	1.37	3.55	2.61	3.72	29.26	
2005	2.27	0.68	4.42	2.56	4.35	1.55	0.24	0.32	1.36	3.68	6.09	9.09	36.61	
2006	11.9	1.99	3.57	2.02	2.7	1.08	0.14	0.08	0.59	0.9	12.88	7.49	45.34	
2007	3.24	3.8	2.39	1.96	1.29	0.97	0.4	0.53	1.73	3.12	3.9	8.94	32.27	
2008	5.38	1.49	3.31	1.94	0.97	0.36	0.09	1.37	0.22	1.69	4.51	7.57	28.9	
2009	4.36	1.08	2.4	1.24	2.92	1.34	0.13	0.72	1.51	3.32	5.72	3.96	28.7	
2010	5.14	4.06	3.76	3.22	3.16	3.52	0.45	0.17	2.21	3.98	5.23	8.16	43.06	
2011	3.59	3.83	5.39	3.42	4.68	0.59	1.23	0	0.26	1.88	5.38	2.33	32.58	
2012	5.79	2.48	6.59	2.38	2.34	2.42	0.09	0.02	0.04	5.45	7.59	7.5	42.69	
2013	1.47	1.87	1.81	2.33	3.98	1.31	0	0.85	6.27	0.87	2.73	1.08	24.57	
2014	2.41	5.06	6.07	3.42	1.7	0.92	0.52	0.14	1.1	6.12	2.83	5.88	36.17	
2015	3.01	4.57	4.68	1.41	0.44	0.54	0.32	0.55	0.86	3.42	4	14.6	38.4	
2016	7.53	3.96	5.31	1.88	0.8	1.33	0.33	0.25	0.93	8.66	6.25	4.77	42.0	Wet
2017	4.11	10.06	6.96	3.56	1.82	1.05	0	0.13	1.39	4.04	7.38	2.92	43.42	Wet
2018	5.17	2.15	2.79	3.32	0.11	0.65	0	0	0.79	3.33	2.61	4.74	25.66	Dry
2019	3.12	4.96	1.36	3.23	1.45	0.64	0.49	0.21	3.08	1.51	1.16	5.22	26.43	Dry
2020	7.18	1.49	2.12	0.88	1.86	2.04	0.07	0.25	1.28	1.38	5.34	5.27	29.16	Dry

Sorted Data – The 30-years of climatology were SORTED to determine DRY/AVG/WET months. Generally, the driest and wettest years were used to delineate DRY/WET (AVG was anything in-between). Years which had precipitation less than the 30th percentile were designated dry, years which had precipitation greater than the 70th percentile were designated wet and all other years were designated as average.

Table 4 and Figure 4 shows the land use determination for the Aloha and Gordon Moore Park at Ronler Acres sites. Both sites are over 70 percent urban. Because the area within 3 km is more than 50 percent classified as urban land use, the URBAN option was used for AERMOD in the modeling of the project.

In reviewing the AERMOD Implementation Guide (June 2022), it provides the following recommendations for assigning an urban population number in AERMOD:



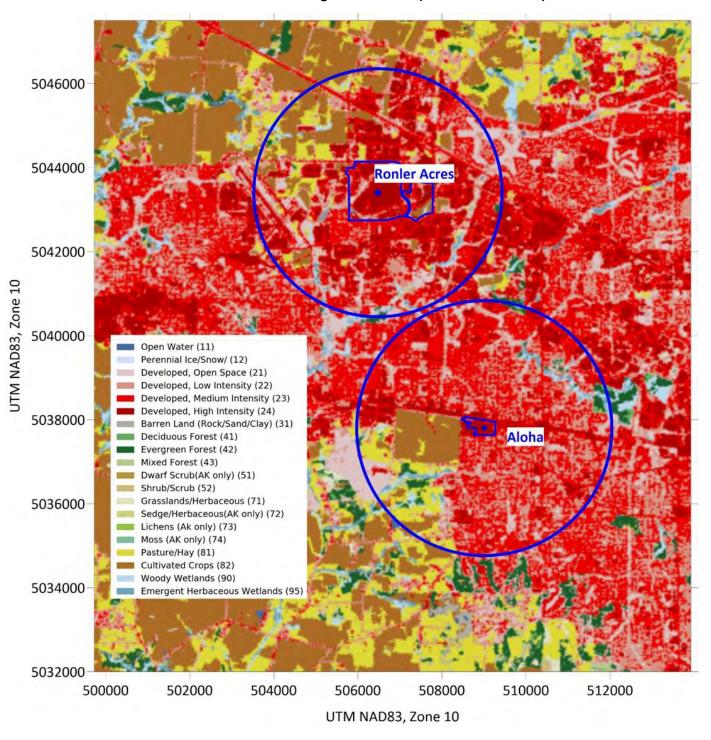


Figure 4
Land Use Surrounding the Intel Sites (3 km Radius in Blue)



"For urban areas adjacent to or near other urban areas, or part of urban corridors, the user should attempt to identify that part of the urban area that will contribute to the urban heat island plume affecting the source(s). If this approach results in the identification of clearly defined MSAs, then census data may be used as above to determine the appropriate population for input to AERMOD. Use of population based on the Consolidated MSA (CMSA) for applications within urban corridors is not recommended, since this may tend to overstate the urban heat island effect. Similarly, for application sites that are in isolated areas of dense population but are not representative of the larger MSA, care should be taken to determine the extent of the area the urban area that will contribute to the urban heat island plume affecting the source(s).

For situations where MSAs cannot be clearly identified, the user may determine the extent of the area, including the source(s) of interest, where the population density exceeds 750 people per square kilometer. The combined population within this identified area may then be used for input to the AERMOD model."

		Table 4				
	The second secon	d Use Summari		,		,
ID	Description	Class	Ronler	Percent	Aloha	Percent
11	Open Water:	Rural	16	0.1%	3	0.0%
21	Developed, Open Space:	Rural	2892	9.2%	1895	6.0%
22	Developed, Low Intensity:	Urban	6287	20.0%	8781	27.9%
23	Developed, Medium Intensity:	Urban	9523	30.3%	12530	39.9%
24	Developed, High Intensity:	Urban	6855	21.8%	2673	8.5%
31	Barren Land (Rock/Sand/Clay):	Rural	21	0.1%	0	0.0%
41	Deciduous Forest:	Rural	0	0.0%	73	0.2%
42	Evergreen Forest:	Rural	86	0.3%	500	1.6%
43	Mixed Forest:	Rural	35	0.1%	56	0.2%
52	Shrub/Scrub:	Rural	14	0.0%	4	0.0%
71	Grasslands/Herbaceous:	Rural	105	0.3%	95	0.3%
81	Pasture/Hay:	Rural	1825	5.8%	1801	5.7%
82	Cultivated Crops:	Rural	3203	10.2%	2207	7.0%
90	Woody Wetlands:	Rural	339	1.1%	518	1.6%
95	Emergent Herbaceous Wetland:	Rural	222	0.7%	282	0.9%
	Total:		31423		31418	
	Percent Urban			72%		76%
	Percent Rural			28%		24%

Dispersion within urban environments has different characteristics than that occurring in a rural environment. The urban boundary layer will behave in a more convective, turbulent manner during the hours just after sunset due to the urban heat island effect. Using the Aloha Project site as general center point, Figure 5 presents the Project locations relative to the city boundaries in the region. The Aloha site is approximately 10 kilometers from the northwestern edge of the Hillsboro city boundary and nine (9) kilometers from the southeastern edge of the Beaverton city boundary. The three (3) cities used for identifying the population are Hillsboro, Aloha and Beaverton. Each of the three (3) cities vastly exceeds the 750 people per square kilometer EPA threshold for identifying the area as urban. The three (3) cities also represent a continuous urban/developed corridor which is aligned with the predominant wind



direction. The use of the 2022 census derived population data and population density data are summarized in Table 5.

	Table 5 Existing Populations and p	opulation density					
	Population*	Population Density/km ^{2*}					
Hillsboro	107,299	1,601.3					
Aloha	58,828	2,825.3					
Beaverton	97,053	1,920.2					
Total	263,180						
* 2020 /2022 United States 0	* 2020 /2022 United States Census Bureau Data						

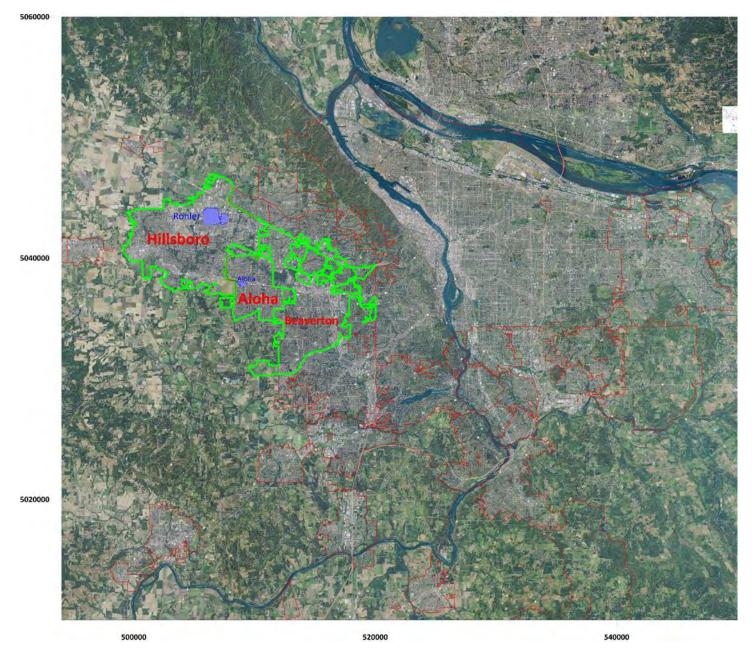
Based on the combined population of 263,180, this value was used for the population input into AERMOD. This combined population presents a conservative and appropriate magnitude of the urban heat island effects within the impact areas surrounding both sites.

Meteorological Data Representativeness: The ODEQ approved use of the five (5) years of Hillsboro Airport ASOS surface meteorological data satisfies the need for site-representative data. EPA defines the term "site-representative data" to mean data that would be similar to atmospheric dispersion conditions at the source and at locations where the source may have a significant impact on air quality. Specifically, the meteorological data requirement originates from the Clean Air Act in Section 165(e)(1), which requires an analysis "of the ambient air quality at the facility and in areas which may be affected by emissions from such facility for each pollutant subject to regulation under [the Act] which will be emitted from such facility." This requirement and EPA's guidance on the use of site-representative data are also discussed in Section 8.4.4 of Appendix W to 40 CFR Part 51. The representativeness of meteorological data is dependent upon a determination that the data are free from inappropriate local or microscale influences.: (a) the proximity of the meteorological monitoring site to the area under consideration; (b) the complexity of the topography of the area; (c) the exposure of the meteorological sensors; and (d) the period of time during which the data are collected.

The Hillsboro Airport ASOS surface meteorological monitoring station qualifies as site-representative data for several reasons. First, the Hillsboro Airport meteorological monitoring site is the closest ASOS site and located in very close proximity to the Intel locations, with nearly identical elevations above mean sea level (amsl). Second, both locations are located in the same area of the broad and relatively flat Tualatin Valley. Third, the ASOS monitoring location at the airport was selected to be far enough from wind flow perturbations caused by buildings and other features. Fourth, the period of meteorological data selected at the time of the modeling analyses (2016-2020) would be expected to be the most representative of current conditions, with the same general land uses surrounding the current ASOS location and airport as well as the proposed Project sites. A review of current Google Earth photo-aerials shows that nearby land uses at both locations are similar to the land uses reflected in the 2016 and 2020 NLCD sets. Additionally, these data meet the EPA data recovery requirements for air quality modeling as described earlier.



Figure 5
City Boundaries Used for Developing Urban Population in AERMOD





Representativeness is defined in the document "Workshop on the Representativeness of Meteorological Observations" (Nappo et. Al., 1982) as "the extent to which a set of measurements taken in a space-time domain reflects the actual conditions in the same or different space-time domain taken on a scale appropriate for a specific application." Judgments of representativeness should be made only when sites are climatologically similar, as is the case with the meteorological monitoring site and the proposed Project location. In determining the representativeness of the meteorological data set for use in the dispersion models at the Project sites, the consideration of the correlation of terrain features to prevailing meteorological conditions, as discussed earlier, would be nearly identical to both locations since the orientation and aspect of terrain at the proposed Project locations correlates well with the prevailing wind fields as measured by and contained in the meteorological dataset. In other words, the same mesoscale and localized geographic and topographic features that influence wind flow patterns at the meteorological monitoring site also influence the wind flow patterns at the proposed Project sites.

For these reasons, the Hillsboro Airport meteorological data was selected and approved by ODEQ for use in modeling emissions from the proposed Project. This data also satisfied the EPA definition of representative data which is similar to the meteorological and dispersion conditions at the Project sites and the regional area. An annual windrose for the five-year modeling period is shown in Figure 6.

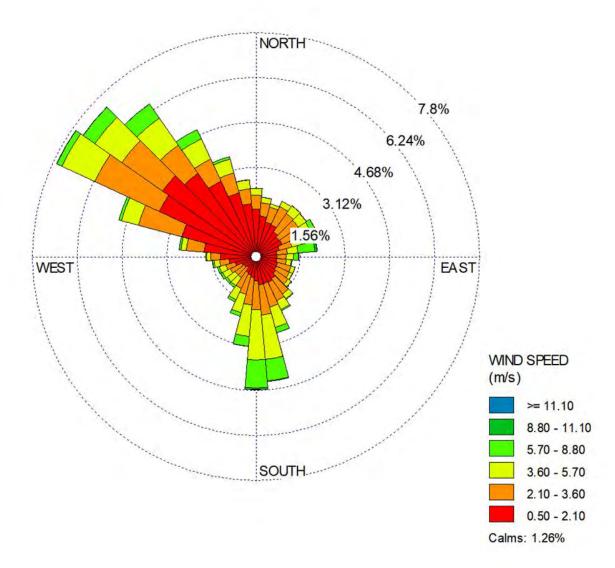
<u>Existing Baseline Air Quality Data</u>: The nearest air quality monitoring sites to the proposed Project are listed in Table 6 which also lists the monitored pollutants and distances to the Project.

Table 6 Ambient Monitoring Site Information					
Monitors	Distance from Ronler Acres (km)	Distance from Aloha (km)	Pollutants Monitored	Monitoring Objective	
SE Lafayette (SEL) 5824 SE Lafayette St. (EPA# 41-051-0080)	25	22	CO, NO ₂ , Ozone, PM-10, PM-2.5, SO ₂	Population/NAAQS	
Tualatin at I-5 (TBC) (EPA# 41-067-0005)	21	15	CO, NO₂, Ozone, PM-2.5	Source/NAAQS	
Hare Field (HHF) Grant Street (EPA# 41-067-0004)	5	8	PM-2.5	Population/NAAQS	

In addition to the monitoring site data, the ODEQ allows for the use of the *Northwest International Air Quality Environmental Science and Technology Consortium (NW-AIRQUEST)* data for the 2014-2017 period which is considered design data for the 2023 period and can be considered representative of the impact areas. These data sets are summarized in Table 7.



Figure 6 Hillsboro Annual Wind Rose (2016-2020)





			Backgroun	Table 7	ring Data								
Pollutant	Units	Avg Time	Stations	2018	2019	2020	2021	2022	NW				
Poliutant	Omits	Avg IIIIe	Stations	2018	2019	2020	2021	2022	AIRQUES Design Value				
	24 Hr 1 st -	Hare Field	28	36	28	24	47						
		High	Tualatin	19	32	28	20	66	NA				
		підіі	S. Lafayette	20	30	31	23	75					
		24 H. Ooth	Hare Field	18	24	18	15	29					
PM-2.5	ug/m³	24 Hr 98 th	Tualatin	17	21	18	18	28	19.6				
		percentile -	S. Lafayette	17	20	23	16	27	•				
			Hare Field	6.1	6.7	6.1	5.8	7.9					
		Annual - Mean -	Tualatin	7.1	6.8	6.8	6.7	8.5	6.3				
		iviean	S. Lafayette	6.8	6.5	7.1	6.4	7.9	•				
PM-10 ug/m³	24 Hr 1 st High	S. Lafayette	54	33	35	31	83						
		/ 2	, ,	/ 2		24 Hr 2 nd High	S. Lafayette	27	29	35	29	39	55
	ug/m³	24 Hr 1 st High	Hare Field	ND	35	ND	ND	ND	-				
		24 Hr 2 nd High	Hare Field	ND	32	ND	ND	ND					
		8 Hr 1 st High -	Tualatin	1145	1145	1145	1145	1260	4206				
			S. Lafayette	1832	1832	1718	1947	1947	1306				
CO	ug/m³	ug/m³	ug/m³		Tualatin	1603	1489	**	1603	2061			
		1 Hr 1 st High	S. Lafayette	2405	2176	**	2978	2405	1744				
		Tualatin	83	77	79	71	64						
		1 Hr 1 st High	S. Lafayette	88	81	66	68	68	· NA				
		1 Hr 98 th	Tualatin	72	62	56	56	58					
NO ₂	ug/m³	percentile	S. Lafayette	66	60	55	58	56	65.7				
		Annual	Tualatin	23	21	19	17	19					
		Mean	S. Lafayette	17	15	12	12	13	14.2				
		1 Hr 1 st High	S. Lafayette	9	8	8	8	8	NA				
		24 Hr 1st	S. Lafayette	3	3	4	5	5	6.0				
		High	•										
SO ₂	ug/m³	1 Hr 99 th	S. Lafayette	8	8	5	8	8	12.6				
		Annual Mean	S. Lafayette	1.2	0.6	0.6	1.3	1.5	1.20				

Federal regulations, specifically 40 CFR Part 58 Appendix D, require that a State and Local Air Monitoring (SLAMS) network be designed to meet a minimum of three basic monitoring objectives: Provide air pollution data to the public in a timely manner, support compliance with the National Ambient Air Quality Standards (NAAQS), and support air pollution research. A variety of site types are needed to support these basic objectives, including six (6) general types listed below:

1. Sites are located to determine the highest concentrations expected to occur in the area covered by the network.



- 2. Sites are located to measure typical concentrations in areas of high population density.
- 3. Sites are located to determine the impact of significant sources or source categories on air quality.
- 4. Sites are located to determine general background concentration levels.
- 5. Sites are located to determine the extent of regional pollutant transport among populated areas.
- 6. Sites are located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts.

The physical siting of an air monitoring station must conform to 40 CFR Part 58 and its location must achieve a spatial scale of representativeness that is consistent with the monitoring objective and site type.

The spatial scale results from the physical location of the site with respect to the pollutant sources and categories. It estimates the size of the area surrounding the monitoring site that experiences uniform pollutant concentrations. The categories of spatial scale are:

- 1. Microscale-Defines the concentrations in air volumes associated with area dimensions ranging from several meters up to about 100 meters.
- 2. Middle scale-Defines the concentration typical of areas up to several city blocks in size with dimensions ranging from about 100 meters to 0.5 kilometer.
- 3. Neighborhood scale—Defines concentrations within some extended area of the city that has relatively uniform land use with dimensions in the 0.5 to 4.0 kilometers range.
- 4. Urban scale-Defines concentrations within an area of city-like dimensions, on the order of 4 to 50 kilometers.
- 5. Regional scale-Defines usually a rural area of reasonably homogeneous geography without large sources and extends from tens to hundreds of kilometers.
- 6. National and global scales-These measurement scales represent concentrations characterizing the nation and the globe as a whole.

The selection of these monitoring sites is also based on the monitoring stations' objective, which is NAAQS and population exposure for measuring background air quality. These monitoring objectives can be used to support the demonstration of compliance with the NAAQS when coupled with dispersion modeling.

Along with the monitoring objective is the spatial scale of the monitoring site which is used to represent high concentration locations, population and background exposure. The spatial scale of the SE Lafayette monitoring station is summarized below by pollutant:

- NO₂ Urban which represents highest concentration, population exposure and general background.
- Ozone Urban which represents highest concentration, population exposure and general background.
- CO Micro scale which represents highest concentration.
- SO₂ Urban which represents highest concentration, population exposure and general background.
- PM-10 Neighborhood which represents highest concentration, population exposure and general background.



• PM-2.5 – Neighborhood which represents highest concentration, population exposure and general background.

The spatial scale for Hare Field is:

• PM-2.5 – Neighborhood scale which is used for highest concentration, population exposure and general background.

The spatial scale for the Tualatin monitoring station is microscale whose primary purpose is to monitor freeway-based concentration data for NO₂, CO, Ozone, and PM-2.5. While microscale is useful for determining highest concentration data, the immediate proximity to Interstate Route 5 (I-5) make this monitoring data better suited to identifying temporal (freeway-based impacts) to air quality based on time of day rather than measuring a true background data set that is not influenced by any one source or source type. As such, the further use of this data set was not considered.

As referenced above, there is also gridded background air quality data based on the NW AIRQUEST data set that covers the Project area. This data set (2014-2017) can also be used as representative background if demonstrated to be appropriate and applicable to a particular Project area. And while the use of the NW AIRQUEST data can be considered conservative for some pollutants and averaging periods, as noted below, this data set does not track the current background air quality trends over the last five (5) years as discussed below.

Based on the goals and objectives of the specific monitors listed in Table 6, the selection of the SE Lafayette and Hare Field monitoring sites were chosen to represent background for use in the dispersion modeling analyses.

In order to select the applicable background monitored data set to use in the modeling analyses, a trend analysis of the background air quality data based on the last five (5) years is summarized below which is based, in part, on the data in Table 7. Background trends for CO and SO₂ are not summarized below as the Project impacts are expected to be less than the applicable significant impact levels (SILs). Additionally, the SE Lafayette monitoring station represents the highest (design value) concentration for CO and the NW AIRQUEST represents the highest design value for SO₂. These locations were used to represent background concentrations as needed for the Project modeling analyses.

The overall trend in background NO_2 for the last five (5) years (2018-2022) at the SE Lafayette monitoring station has been downward for both 1 hour (98th percentile) and annual averages. A similar trend is noted at the Tualatin monitoring site. Note the NW AIRQUEST data is consistent with the 2018 monitoring data and does not reflect the decrease in background over time.

This trend for PM-2.5 is not duplicated as the background concentrations at SE Lafayette, Tualatin and Hare Field have shown a small increase in background monitored concentrations since 2018. While the PM-2.5 trend decreased during the 2021 time period, overall, the trend has been upward. As noted with the NO_2 trends, the NW AIRQUEST data best represents the year 2018 and does not reflect the increase in background over time.

PM-10 trends at the SE Lafayette site show similar increases between the years 2018 and 2022.



Seasonal Background NO₂ Data

For 1-hour NO_2 , seasonal hourly background for the 2019-2021 data period was used, in accordance with the procedures found in "Guidance Concerning the Implementation of the 1-hour NO_2 NAAQS for the PSD Program" (6/29/10) and "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 NAAQS" (3/01/11). Complete hourly data from the 2022 data period is not yet available for use so the seasonal hourly background NO_2 for modeling will be the 2019-2021 data period. In accordance with EPA procedures, the third highest value for each hour and season was used to calculate the three-year average of each time period.

Seasonal Hour-Of-Day is determined by organizing all of the NO₂ concentrations by hour of day (1AM, 2AM, 3AM, etc.) for each season of the year in descending order and selecting the 3rd highest NO₂ concentrations for each hour of the day and season.

For example, (1AM)

- 1. First take all the 1AM values (maximum of 90-92 numbers) for each Season
 - a. Winter = December of Previous Year, January, February
 - b. Spring = March, April, May
 - c. Summer = June, July, August
 - d. Autumn = September, October, November
- 2. Sorting the NO₂ concentrations in descending order (highest to lowest)
- 3. Take the 3rd highest NO₂ concentrations.
- 4. This value was used to represent the 1AM 3rd highest or 98th- percentile of available data.
- 5. The above process is repeated for each hour of the day and season.
- 6. Repeat steps 1 through 5 for each of the three years under review.
- 7. Average the three 1AM NO₂ concentrations.
- 8. This value was used in AERMOD as the NO_2 background concentrations (3yr average of the 98^{th} percentile) for the 1AM hour and season.
- 9. Repeat step 7 and 8 for each of the hours in the day and season.

This produced the following data in Table 8 which was used as input in the AERMOD analysis for the 1-hour NO₂ NAAQS.

	Ambient N		Table 8 Hour by Day Con	centrations	
Hour	Winter	Spring	Summer	Fall	Units
1	21.40	23.50	14.70	19.10	PPB
2	20.50	22.70	13.50	18.40	PPB
3	19.60	22.20	15.20	17.90	PPB
4	20.30	21.70	15.50	17.10	PPB
5	20.00	23.10	17.90	17.30	PPB
6	21.40	22.70	17.90	19.20	PPB
7	23.60	26.50	19.90	21.00	PPB



8	27.50	25.90	17.20	21.30	PPB
9	23.90	22.50	15.50	20.30	PPB
10	22.70	18.90	12.00	17.00	PPB
11	21.60	16.40	13.50	16.70	PPB
12	20.40	14.30	11.10	16.80	PPB
13	18.50	15.00	11.20	18.00	PPB
14	18.10	14.60	12.50	17.80	PPB
15	18.80	13.50	9.20	18.40	PPB
16	19.10	13.60	8.00	20.10	PPB
17	22.30	13.70	10.30	21.10	PPB
18	24.80	15.40	8.40	26.50	PPB
19	28.20	18.30	10.20	30.10	PPB
20	30.00	26.60	14.10	29.80	PPB
21	28.80	30.10	15.50	27.10	PPB
22	28.30	27.90	17.80	25.10	PPB
23	26.90	26.50	16.80	23.70	PPB
24	24.10	24.50	15.10	20.80	PPB

<u>Summary of Selected Data:</u> Based on the monitoring objectives (NAAQS), the spatial scales (Urban and Neighborhood) of the Hare Field and SE Lafayette monitoring stations and the last five (5) years of background trends, these sites were selected as being the most representative for determining the background concentrations to be used in the modeling analyses in place of the NW AIRQUEST design values. For NO₂, Ozone and PM-10 background data, SE Lafayette was used with PM-2.5 background based on Hare Field, which is also the closest PM-2.5 monitoring station to the Project sites. For background CO and SO₂, the SE Lafayette data was also used in the modeling analyses.

The background concentrations used in the modeling analyses are the highest values over the last three (3) year period for 1-and 8-hour CO, 24-hour PM-10, annual NO_2 and 1-hour, 24-hour and annual SO_2 . 24-hour and annual PM-2.5 background concentrations are based on the 3-year average in accordance with "Guidance for Ozone and Fine Particulate Matter Permit Modeling" (07/29/22). Table 9 presents the background concentration data used in the dispersion modeling assessments.

Table 9 Background Air Quality Data Summary							
Pollutant and Averaging Time	Background Value (μg/m³)						
PM-10 – 24-hour 3-year 2 nd High NAAQS	39.0						
PM-2.5 ₅ – 3-Year Average of Annual 24-hour 98 th Percentiles NAAQS	20.7						
PM-2.5 ₅ – 3-Year Average of Annual Values NAAQS	6.6						
CO – 1-hour High NAAQS	2,978						



CO – 8-hour High NAAQS	1,947
NO ₂ –3-Year Average of Annual 98 th Percentile 1-hour Daily Maximum NAAQS	56.3*
NO ₂ – Annual Maximum NAAQS	18.3
SO ₂ – 3-Year Average of Annual 99 th Percentile 1-hour Daily Maxima NAAQS	7.0
SO ₂ – 24-hour Maximum NAAQS 24-hour High, 2 nd High NAAQS	4.7
SO ₂ – Annual Maximum NAAQS	1.1

Notes * Seasonal hourly background concurrent with the 2016-2020 meteorology was used for modeling. Reference value only. Conversion of ppm/ppb measurements to $\mu g/m^3$ concentrations based on: $\mu g/m^3 = ppm \times 40.9 \times MW$, where MW = 48, 28, 46, and 64 for ozone, CO, NO₂, and SO₂, respectively.

AIR QUALITY MODELING PROCEDURES

The AERMOD dispersion model was used to quantify pollutant impacts on the surrounding environment based on the emission sources and operating parameters. AERMOD was used to determine Facility impacts on Class II areas in the immediate Project vicinity in simple, intermediate, and complex terrain areas during Project operations. AERMOD was also used to assess the Class I significant impact levels (SILs) as discussed later in the summary report. AERMOD was the primary model used for comparison of Project impacts to SILs and demonstration of compliance with NAAQS. Modeling of operational impacts are described below.

AERMOD Model, Options, and Procedures: AERMOD is a steady-state plume dispersion model that simulates transport and dispersion from multiple point, area, or volume sources based on updated characterizations of the atmospheric boundary layer. AERMOD uses Gaussian distributions in the vertical and horizontal for stable conditions, and in the horizontal for convective conditions; the vertical distribution for convective conditions is based on a bi-Gaussian probability density function of the vertical velocity. For elevated terrain AERMOD incorporates the concept of the critical dividing streamline height, in which flow below this height remains horizontal, and flow above this height tends to rise up and over terrain. AERMOD also uses the advanced PRIME algorithm to account for building wake effects. AERMOD input data options are listed below following these EPA modeling guidance documents.

- Final plume rise
- Stack tip downwash
- Regulatory default option (i.e., calm and missing meteorological data processing and elevated terrain heights option)

Flagpole receptors were not used (ground level concentrations only). AERMAP was used to calculate receptor elevations and hill height scales for all receptors from National Elevation Data (NED) data in accordance with EPA guidance. Selection of the receptor grids is discussed below.



<u>GEP Stack Height and Downwash</u>: Stack locations and heights and building locations and dimensions were input to BPIP-PRIME. The first part of BPIP-PRIME determines and reports on whether a stack is being subjected to wake effects from a structure or structures. The second part calculates direction-dependent "equivalent building dimensions" if a stack is being influenced by structure wake effects. The BPIP-PRIME output is formatted for use in AERMOD input files. BPIP-PRIME included all of the point source locations. Figures 7 and 8 present the buildings and building names that were input in to BPIP-PRIME. The individual building elevations can be found in the BPIP-PRIME input/output files.

<u>Receptor Selection</u>: Receptor and source base elevations were determined from United States Geological Survey (USGS) National Elevation Dataset (NED) data. The NED data was processed with the EPA-model AERMAP for the receptor locations selected. All coordinates (both sources and receptors) are referenced to UTM North American Datum 1983 (NAD83, Zone 10). AERMAP is capable of interpolating the elevation data in the NED data for both receptor elevations and hill height scales.

The NED data are available in 1/3-arcsecond (about 10 meter) and 1-arcsecond (about 30 meter) grid node spacing. Areas that contain receptor grids with 100 meter spacing or less between adjacent receptors used the10 meter NED data. Other areas that contain only receptor grids of greater than 100 meter spacing utilized the 30 meter NED data. For purposes of determining hill height scales, the NED datasets used were extended 5-km past the outside of the coarse receptor grid described below for 30-meter NED data and 2-km past the outside of the intermediate/downwash receptor grids described below for 10-meter NED data.

Cartesian coordinate receptor grids were used to provide adequate spatial coverage surrounding the Project area for assessing ground-level pollution concentrations, to identify the extent of significant impacts, and to identify maximum impact locations. For the full impact analyses, a nested grid was developed to fully represent the initial location and extent of significance area(s) and maximum impact area(s). The nested grid was comprised of the following:

- Receptors were placed along the proposed Project fencelines with a spacing of about 25 meters or less between adjacent receptors.
- The downwash receptor grid with a receptor spacing of 25 meters was extended from the Project fencelines out to 300 meters from the Project.
- The first intermediate receptor grid with 50-meter receptor spacing was extended from the downwash receptor grid out to 1000 meters from the Project fencelines.
- The second intermediate receptor grid with 100-meter receptor spacing was extended from the first intermediate receptor grid outwards to two (2) kilometers (km) from the Project fencelines in all directions.
- The first coarse grid with 200-meter receptor spacing extended out five (5) km from the Project in all directions.
- A second course grid with 500 meters spacing extended outwards ten (10) km from the Project fencelines in all directions.
- Additional grids with 1,000 meters spacing were developed to close off the 1-hour NO2 SIL isopleth of 7.5 ug/m³.
- When maximum impacts occur in areas outside the 25-meter spaced receptor grid, additional refined receptor grids with 25-meter resolution were placed around the maximum impacts and extended as necessary to determine maximum impacts.



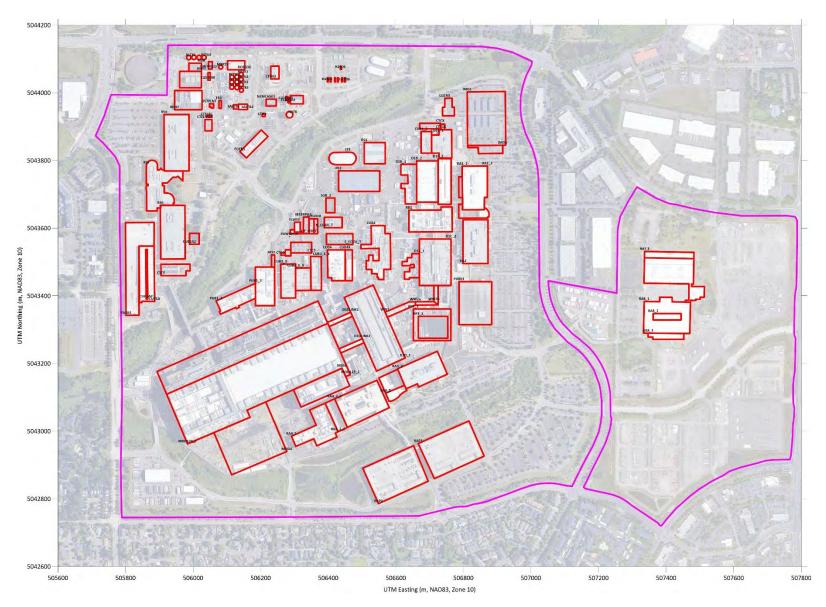


Figure 7
Gordon Moore Park at Ronler Acres Building Names for BPIP-PRIME





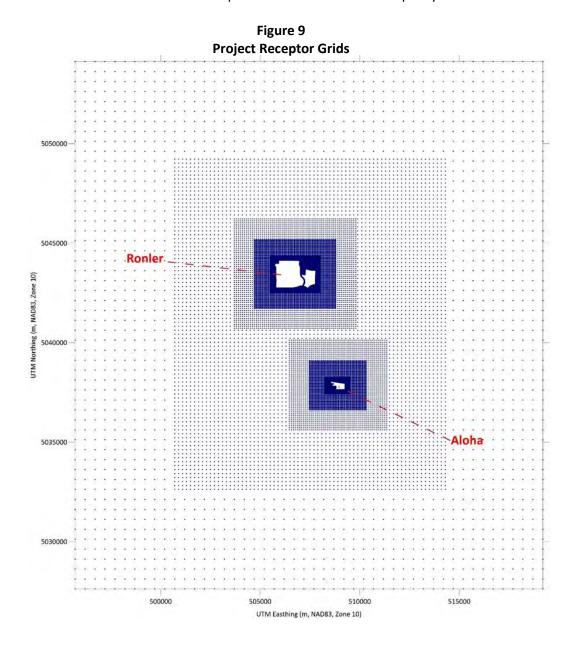


Ambient concentrations within the Facility fencelines were not calculated.

Figure 9 depicts the receptor grids based on the discussion above.

Steady-State Emission Sources

Modeled concentrations from normal operations were based on continuous operation of all sources at the Project, except for the emergency diesel generators and fire pumps. For the continuous source operations, with Scrubbers, RCTOs, Boilers, Heaters, Generators, Cooling Towers and the ammonia waste TMWX, each short-term averaging period (1-,8- and 24-hour) utilized the maximum hourly emission rates. Annual emissions were based on full time operation or utilized annual capacity factors.





In summary:

- EXSC, EXAM, PSSS, RCTO and TMXW operate 24 hours per day and 8,760 hours per year.
- RCTOs at an annual operating capacity at 100%
- Boiler operation is up to 24 hours per day with a 30% annual capacity factor.
- Emergency generator testing occurs up to 60 minutes per day, 10 engine tests per day and 25 hours per year. Fire pump testing is up to 50 hours per year. The modeling procedures for the emergency generators are discussed below.
- Cooling towers operate 24-hours per day and 8,760 hours per year.
- Lime silos will only emit during loading operations which will occur no more than 1 hour per day with only one silo being loaded on any given hour or day. On an annual basis, there will be no more than 52 loading operations per year per silo.
- Fugitive dust emissions are assumed to occur 24 hours per day and 8,760 hours per year.

All the sources were modeled as point sources with the fugitive emissions modeled as an area source and the lime silo as a volume source. All the source coordinates are based on UTM NAD 83, Zone 10. Table 10 presents the emission source naming scheme used in AERMOD along with the modeled pollutants which were assessed in this report. This naming scheme is used in the detailed source/emissions tables provided in Attachment B as well as in the modeling input/output files that are provided to the ODEQ.

Table 10							
Emission Source Names and Types							
Emission Source	Model ID	PSD Pollutants Subject to AQ Assessment					
Rotary Concentrator Thermal Oxidizers (RCTOs)	ТО	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
RCTO with Wet Electrostatic Precipitator (WESP)	TI, TW	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Scrubbers:							
Acid Gas (EXSC) Scrubbers	SC	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
EXSC with WESP	SI, SW	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Ammonia (EXAM) Scrubbers	AM	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Process Specific Support System (PSSS) Scrubbers	PS, SC	PM-10, PM-2.5					
Boilers	ВО	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Building Heaters and Small Boilers	HE	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Emergency Generators and Fire Pumps	EG, FI	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Trimix Ammonia Treatment System (TMXW)	TM	NO _x , CO, PM-10, PM-2.5, SO ₂ , VOC					
Lime Silos	LIME	PM-10, PM-2.5					
Cooling Towers	СТ	PM-10, PM-2.5					
Paved Road	PR	PM-10, PM-2.5					

Intermittent Emission Sources

The fire pumps and emergency generators operate intermittently, for a limited number of hours in the year for maintenance and readiness testing. Intel's current air permit specifies that no more than ten (10) generators may be run in a day and the generators can only be run during daylight hours, which is defined as hours between 8:00 am and 6:00 pm. To evaluate compliance with short-term and long-term air quality standards, these sources were modeled using annualized emissions (hourly emission rate times the number of hours run per year divided by 3,650) for all hours of the day.

The emergency generators typically run up to 25 hours per year, with 50 hours for the emergency fire pumps. As explained in EPA's March 1, 2011, memorandum, "Additional Clarification Regarding



Application of Appendix W Modeling Guidance for the 1-hour National Ambient Air Quality Standard" it is unlikely that emissions from the intermittently operated emergency generators will coincide with the worst-case meteorological conditions and modeled 1-hr NO_2 impacts can be significantly overestimated. As such, EPA also suggests in their March 1, 2011, memo that these types of intermittent sources can be excluded from compliance demonstrations for the 1-hour NO_2 standard. Nonetheless, Intel included emergency generator emissions in the 1-hour NO_2 standard compliance demonstration using the EPA modeling procedures (annualized emissions for NO_2) and the Monte Carlo methodology described below.

Since the generators only run intermittently, they pose a challenge to accurately reflect potential ambient air quality impacts. One approach recommended by EPA³ is to model impacts from intermittent sources based on an annualized hourly emission rate, rather than the maximum hourly emissions. This approach would account for potential worst-case meteorological conditions combined with continuous operation of the emergency generators at an average hourly emission rate. This approach was used for the SIL evaluation and for the 1-hour NO₂ NAAQS. Additionally, the Monte Carlo method, which accounts for the statistical variation in intermittent operations, was also used to assess the 1-hour NO₂ NAAQS. Both analyses are presented in the summary tables that follow.

NO₂ Modeling Procedures

 NO_2 impacts were assessed using a conservative Tier 2 analysis using the Ambient Ratio Method Version 2 (ARM2), adopted in the *Guidance Concerning the Implementation of the 1-hour NO₂ NAAQS for the PSD Program"* (6/29/10). ARM2 adjusts the modeled NO_x concentrations based on an empirical relationship between ambient NO_x and ambient NO_2 concentrations. ARM2 was also used for the intermittent source operations modeling using the EPA annualized emissions methodology.

A Tier 3 analysis was additionally used to assess the intermittent source 1-hour NO_2 concentrations using the Monte Carlo method. Here, the plume volume molar ratio method (PVRMR) was used with concurrent ambient ozone data collected at the SE Lafayette monitoring site. As the source of the background air quality data to be used in the modeling analysis, SE Lafayette has been shown above to be representative of the Project sites. The use of hourly ozone data requires that it be based on the same years as the AERMOD meteorology data. NO_2/NO_x ratios were based on Cummins (the engine manufacturer) supplied data for the 3,000 horsepower engines (or larger) at 0.05. All other diesel equipment used a 0.10 NO_2/NO_x ratio from the EPA ISR database.

Intermittent Source Modeling Procedures

For the 1-hour short-term averaging times, AERMOD was used to determine the worst-case group of engines from the specific engine source groups listed in Table 11. This table represents the typical testing schedule for the different groupings of generators. As noted earlier, no more than 10 engines will be tested in any one day. For determining the 1-hour NO_2 and SO_2 modeled concentrations, each of the 20 groups were modeled as separate source groups with all of the engines within each source group assumed to be running. Thus, depending on the source group that is being modeled, anywhere from three (3) to



² EPA Memorandum, "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO₂, National Ambient Air Quality Standard", March 1, 2011.

³ Ibid

seven (7) engines could be tested in any one hour. The engines are only tested between the hours of 8:00 AM and 6:00 PM (10 hours per day).

For the 1-hour NO_2 NAAQS using the EPA methodology, the engine emission rates were based on the maximum hourly rate which was then prorated to an annual average emission rate, assuming 25 hours per year of usage. For the Monte Carlo method, the maximum hourly emission rate was used. In both cases, the engines were at 100 percent load. For the 1-hour CO and SO_2 averaging period, the maximum hourly emission rate was used with the source groups listed in Table 11.

Additional short-term periods of 1, 8 and 24-hours were also modeled with AERMOD, but to determine the worst-case group of engines, a different method was utilized. As noted, each of the 20 engine source groups are made up of anywhere from three (3) to seven (7) engines. Up to 10 engines can be tested during each day. Rather than trying to identify which 10 engines out of the 20 source groups would be tested for the 8 and 24-hour averaging periods, each engine was assumed to operate for up to 10 hours. Thus, each engine became a specific source group, and each engine was assumed to operate up to 10 hours a day with all the 10 hours of emissions emitted from a single stack (8:00 AM to 6:00PM) to conservatively represent up to 10 different engines operating one hour each in any one day as appropriate for 8-hour and 24-hour averaging times (i.e., 8 engines for 8-hour averaging times and 10 engines for 24-hour averaging times). Please note for the 8-hr CO runs, to account for 10 engines in the 8-hour period, the hourly CO emission rate was ratioed by 10/8. Thus, the worst-case engine location could be determined from the analysis with all emissions occurring from a single engine (representative of the 8 and/or 10 engines being tested) for comparisons with the 8-and 24-hour short-term standards. The worst-case engine was then used for all subsequent modeling for the 1 and 8-hour CO averages and 24-hour SO₂ and PM-10/PM-2.5 averages.

Identifying the Combined Maximum Impact Location – Screening Modeling Procedures

While either the maximum modeled single engine or group of engines from Table 11 was identified from modeling just those 20 groups in AERMOD, the location may not correspond to the maximum location of the steady state source impact locations, which is important to identify to determine the overall maximum modeled concentrations. So, to determine the combined maximum impact for the 1, 8 and 24-hour averaging periods, where the intermittent sources would contribute the highest concentration to the steady state source impact location(s), the top 10 receptor locations where the steady state sources maximum impact occurred were input into AERMOD based on the following:

- All 20 engine source groups were input to determine the 1-hour NO₂ concentration using the EPA 1-hour method (annual average emissions rates).
- Each individual engine input as an individual source group with the maximum 1-hour emission rate (1-hr SO₂ and CO).
- Each individual engine input as an individual source group with the maximum 8-hour emission rate ratioed by 10/8 (8-hr CO) to account for 10 engines tested in 8 hours.
- Each individual engine input as an individual source group with 1-hours of the maximum hourly emission rate (24-hr SO₂ and PM-10, PM-2.5).

To illustrate this screening procedure, the top ten locations of the steady state 24-hour PM-2.5 concentrations, based on the form of the NAAQS, are presented in Figure 10. All engine source groups or



the single engines as individual source groups were then run in AERMOD at these ten receptor locations. The engine groups or single engine that resulted in the highest concentration was then selected to be used in the subsequent modeling analyses for the SILs, NAAQS, and PSD increment assessments. Note, the Monte Carlo analysis was treated as a separate modeling procedure and is not associated with this screening method.

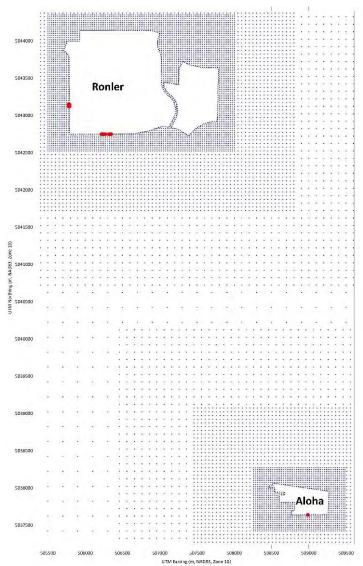


Figure 10 Locations of the 10 Maximum 24-Hour PM-2.5 H8H Receptors

Using this procedure, the 1-hour NO₂ screening results identified engine source group G03 (with six (6) engines tested during the same hour between 8:00 AM and 6:00 PM) as contributing the highest concentration to the steady state maximum source impact location(s). Group G03 was then used in the assessment of the project SILs, PSD increment and NAAQS analyses.



Table 11					
	Monte Carlo Generator Groups				
Group ID	Engine Count	Day	Generator IDs		
G01	5	1	EGR1_01-EGR1_04, EGRB1_01		
G02	7	2	EGDC_01-EGDC_05, EGRP1_01 EGRP1_02		
G03	6	3	EGDD_01-EGDD_06		
G04	4	4	EGRS4_01, EGRS6_01, EGRS6_02, EGDD_07		
G05	6	5	EGE1_01-EGE1_06		
G06	6	6	EGE1_07-EGE1_13		
G07	6	7	EGE1_14-EGE1_18		
G08	4	8	EGE1_19-EGE1_21, EGC5_16		
G09	4	9	EGC5_17-EGC5_20		
G010	4	10	EGC5_21, EGC5_01-EGC5_03		
G011	4	11	EGC5_04-EGC5_07		
G012	4	12	EGC5_08-EGC5_11		
G013	4	13	EGC5_12-EGC5_15		
G014	5	14	EGDB_01-EGDB_03, EGDA_01-EGDA_02		
G015	3	15	EGDA_03, EGDA_04, EGDA_05		
G016	3	1	EGDA_06-EGDA_08		
G017	5	15	EGF15_01-EGF15_03, EGF5_01, EGF5_02		
G018	4	4	FIPH1_01, FIPH2_01, FIRS4_01, FIC5_01		
G019	2	8	EGIW_01-EGIW_02		
G020	4	14	EGN2_01, EGIW_03, EGRS8_01, EGH2_01		
Total Engines	90				

For the remaining pollutants and averaging periods, Table 12 presents engine groups or individual single engine (based on 10 hours of emissions) that was identified as contributing the highest concentrations.

Table 12 Identified Generator Groups from the Screening Modeling				
Group ID	Engine ID ¹	Pollutant	Averaging Period ²	
G17	-	CO	1-HR	
-	EGF15_01	CO	8-HR	
-	EGRS6_01	PM-10	24-HR	
-	EGRS6_01	PM-2.5	24-HR	
G17		SO ₂	1-HR	
-	EGF15_01	SO ₂	24-HR	
G03		NO ₂	1-HR	

¹ 1-hr CO, SO₂ and NO₂ used the specific source groups in Table 11.



 $^{^{\}rm 2}$ Annual modeling used all 90 diesel engines for the SIL, NAAQS and Increment Analyses

1-Hour NO₂ Using the Monte Carlo Analysis

For 1-hr NO_2 , a Monte Carlo Simulation was also used as requested by the ODEQ to estimate the NO_2 impacts from running intermittent emergency generators. In permitting, AERMOD design values (e.g. 98 percentile) are added to background design values. In the case of generators which run infrequently (~1% of the time), the impacts of the generators are statistically likely not to occur on the high background hours. Thus, modeling the generators as continuous source greatly overestimates the occurrences of exceedances as the high modeled impacts are added to the high background under all conditions. A Monte Carlo simulation is used to model the probability of different outcomes in a process that cannot easily be predicted due to the intervention of random variables. For example, the specific hour/day that a set of generators will run is generally unknown. The operation of the generators may or may not correspond to a poor dispersion period, as the occurrence of these events is essentially random.

For this approach, continuous sources were run with the seasonal diurnal NO_2 background to calculate the continuous high-eighth-high (98th percentile) NO_2 concentration at each receptor, which provides a conservative estimate for the continuous source contribution. Next, the model is run without background for the 20 groups of generators, for the 10-hour daylight period. It is assumed that all generators within each source group are running at the same time. The groups are shown in Table 11. The output is hourly NO_2 concentrations for the 20 generator groups for a 5-year period. It is assumed that the 20 groups are tested over 15 days. Thus, five of the days will have two generator groups run on different hours.

For a Monte Carlo Simulation, fifteen randomly selected days for each month are pulled from the 5-year block for that month. The days correspond to the generator groups (e.g. day 1 = group 1, day 2 = group 2, etc.). For each day, an hour is randomly selected between 8:00 AM and 6: 00 PM that generators will run. For days with a second group, another different hour is selected for the second generator group (same day though). The higher of the two concentrations is saved.

The above process is repeated for each month for all of the years of meteorology. Once the selection process is completed, the highest eight daily concentrations in each year are found and ranked from highest to lowest. The three year highest-eighth-high values are averaged on a receptor basis and saved.

This process is repeated 1000 more times (giving 1001 iterations). To demonstrate, Figure 11 shows the convergence of the median value as more iterations are added to the median for the receptor with the higher generator impact. Within a couple hundred iterations, the median stabilizes and is near the final value. After about 400 iterations, the running median value is within 99% of the final value. Thus, the use of 1001 iterations should provide a stable median value.

The results are tabulated and then the median value is determined at each receptor. The median values are then added to the continuous source modeled contributions, on a receptor-by-receptor basis to provide the design values at each receptor. The seasonal hour by day background NO_2 is added in with the steady state sources in AERMOD.

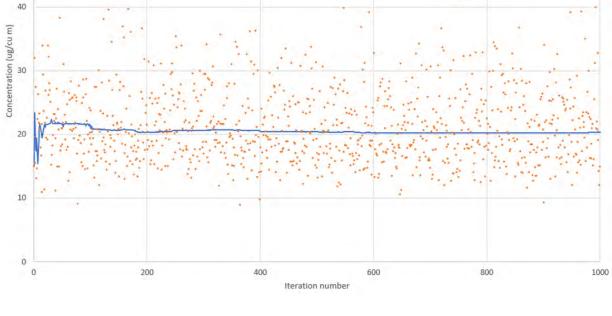
The Monte Carlo Simulation calculations were executed in an Excel macro-enabled spreadsheet which was provided to the ODEQ. The combined concentration spreadsheet calculations will be provided to the ODEQ.



Figure 11
Convergence Criteria

Monte Carlo Solution convergence (Max Recp.)

—— Running Median Individual Iteration



MERP Analysis for Secondary PM-2.5 and Ozone Formation

60

50

The EPA developed a Tier 1 demonstration tool for ozone and PM-2.5 precursor emissions called Modeled Emission Rates for Precursors (MERPs). The development of the tool and related guidance is summarized in a memorandum from EPA dated April 30, 2019, with a subject, "Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for ozone (O₃) and PM-2.5 under the PSD Permitting Program." The basic idea behind the MERPs is to use technically credible air quality modeling to relate precursor emissions and peak secondary pollutant impacts from specific or hypothetical sources. The ODEQ used the air quality modeling results presented in EPA MERPs memorandum to derive MERPs for hypothetical sources located in the Western U.S.

MERPs can be used to demonstrate that projected impacts from a proposed source are less than the applicable SILs or when included with the modeling results, would not cause or contribute to a violation of a NAAQS or PSD increment for that pollutant.



The MERP is based on a hypothetical source emission rate, the modeled concentration from that emission rate, and the relevant SILs for O_3 and PM-2.5 (1 ppb for O_3 , 1.2 $\mu g/m^3$ for 24-hr PM-2.5, and 0.2 $\mu g/m^3$ for annual PM-2.5). The lowest MERP value for each precursor identifies the most conservative condition. EPA provides a lookup table (MERPs View Qlik) which contains MERP data for the United States, from which, for the Tier I analysis, the smallest MERP values were used for the 8-hour O_3 impact assessment and the 24-hour and annual PM-2.5 assessments. ODEQ recommends the use of the Morrow, Oregon site, which is located near Arlington on the Columbia River. For the Tier I analysis, the smallest MERP values were used for the 8-hour O_3 impact assessment and the 24 and annual PM-2.5 assessment.

The MERP analysis used the following emissions data as input which is based on the project total PSEL:

- NO_x 402 tpy
- VOC 349 tpy
- PM-2.5 55 tpy
- SO_x 39.0 tpy

The basic form of the equations for PM-2.5 is:

$$S = SIL \left[\frac{Q_{NOX}}{MERP_{NOX}} + \frac{Q_{SOX}}{MERP_{SOX}} \right]$$

For O_3 , the equation takes the form of:

$$S = SIL \left[\frac{Q_{NOX}}{MERP_{NOX}} + \frac{Q_{VOC}}{MERP_{VOC}} \right]$$

where:

S = final concentration

SIL = significant impact level

- 24-hr PM-2.5 = 1.2 ug/m^3
- Annual PM-2.5 = 0.2 ug/m^3
- $8-hr O^3 = 1 ppb$

Q = mass emissions in tons per year

MERP = MERP in tons per year from Table 13 for each applicable precursor

Table 13 provides the MERPs View Qlik data for Morrow, Oregon based on a hypothetical 500 ton per year source with a stack height of 10 meters. This data along with the project specific PSEL data and applicable SILs were used in the equations to determine secondary PM-2.5 and ozone formation. A copy of the MERP data from View Qlik is also provided in Attachment B.



	Table 13 MERP View Qlik Data											
State	County	Metric	Precursor	Emissions TPY	Stack Height	MERP TPY	Max Concentration ug/m³					
Oregon	Morrow	8-hr Ozone	NO_x	500	10	258	1.939569					
Oregon	Morrow	8-hr Ozone	VOC	500	10	1,087	0.46018					
Oregon	Morrow	Annual PM-2.5	NOx	500	10	7,942	0.012591					
Oregon	Morrow	Annual PM-2.5	SO ₂	500	10	11,877	0.008419					
Oregon	Morrow	Daily PM-2.5	NOx	500	10	3,003	0.19979					
Oregon	Morrow	Daily PM-2.5	SO ₂	500	10	2,314	0.259274					
Stack heig	ht in meters	i										

PM-2.5 24-hr avg. analysis

- For NO_x the lowest MERP is 3,003 for a hypothetical 500 tpy source and a concentration of 0.19979 ug/m³
- For SO_x the lowest MERP is 2,314 for a hypothetical 500 tpy source and a concentration of 0.25927 ug/m^3

Secondary 24-hr PM-2.5 formation = $0.181 \mu g/m^3$

Annual PM-2.5

- For NO_x the lowest MERP is 7,942 for a hypothetical 500 tpy source and a concentration of 0.01259 ug/m^3
- For SO_x the lowest MERP is 11,877 for a hypothetical 500 tpy source and a concentration of 0.00842 ug/m³

Secondary annual PM-2.5 formation = 0.0108 µg/m³

O₃ 8-hr avg. analysis

- For NO_x the lowest MERP is 258 for a hypothetical 500 tpy source and a concentration of 1.9396
 ppb
- For VOC the lowest MERP is 1,087 for a hypothetical 500 tpy source and a concentration of 0.46018 ppb

Primary 8-hr O₃ formation = 1.88 ppb

Table 14 below compares the results of the MERP analysis to the applicable SILs, and only the 8-hr O_3 resultant concentration is significant. This significant concentration was then added to the background O_3 concentration of 61.3 ppb to produce a Project total of 63.18 ppb, which is below the 8-hr O_3 standard of 70 ppb. Thus, any additional impacts to the background ozone concentration will comply with the NAAQS.

Based on the results of the MERP analysis, the calculated secondary PM-2.5 concentrations were added to all modeled PM-2.5 results from AERMOD for both 24-hr and annual averaging periods.



Table 14 Results of MERP Analyses with Comparison to PSD SILs									
Pollutant	Avg. Period	MERP Concentration	Class II PSD SILs						
O ₃	8-Hour	1.88 ppb	1 (ppb)						
DN 4 2 F	24-hr Max	$0.181 \mu g/m^3$	1.2 (μg/m³)						
PM-2.5	Annual Max	$0.0108 \mu g/m^3$	0.2 (μg/m³)						

Modeled Impacts on Class II Areas

The following sections present the analyses for determining the changes to ambient air quality concentrations in the region of the Project. These analyses are based on the requirements in OAR 340-225-0050. The modeling includes the results of the diesel engine screening assessment to determine the worst-case emergency engine impacts during routine reliability testing which were combined with the project SIL modeling and refined modeling assessments used to calculate the proposed Project changes to ambient air quality, and increment/cumulative assessments.

Federal major source baseline and minor source baseline dates for NO₂, SO₂, PM-10, PM-2.5 and CO have already been triggered in the Project region. For determining the Project modeled concentrations which are then compared to the applicable SILs, NAAQS and PSD increments, all sources at the Gordon Moore Park at Ronler Acres and Aloha campuses were used, which includes both existing sources and the proposed new sources. No sources were excluded in any of the subsequent modeling analyses.

Emissions and stack parameters for all of the sources at Gordon Moore Park at Ronler Acres and Aloha are listed in Attachment B. These were used in all of the modeling inputs. Stack parameters (e.g., stack height, exit temperature, stack diameter, and stack exit velocity) were based on the parameters provided by Intel. Stack locations for the existing and proposed sources were matched to show their actual location based on the proposed Facility plot plan and the most recent aerial imagery.

Class II SILs and SMC Analyses

OAR 340-200-0020 and 340-225-0050 prescribes the use of the Significant Impact Levels (SILs) to establish the "significant impact area" (SIA), which is used to identify the appropriate geographic area in which a multi-source NAAQS and increment impacts analysis should be conducted. The "impact area" is identified by drawing a circle around the site with a radius equal to the distance to the farthest location where an exceedance of the SIL is modeled to occur. The impact area is the geographical area for which the required air quality analyses for the NAAQS and PSD increments are carried out. This area includes all locations where the significant increase in the potential emission of a pollutant from a new or modified source, or significant net emission increase from a modification, will cause a significant ambient impact (i.e., equal or exceed the applicable SIL). This impact area is then also used in a multi-source cumulative impacts analysis to "guide the identification of other sources to be included in the modeling analyses."

To assess the Class II significance levels of the modeled concentrations, the following averaging periods were used:



- 1-hour NO₂ and SO₂ SIL was based on the 5-year average of the maximum daily 1-hour NO₂ concentrations modeled each year at each receptor.
- Annual NO₂ and SO₂ SIL was based on the maximum annual average concentration for the five (5) year period modeled for each receptor.
- 1-hour and 8-hour CO SILs were assessed based on the maximum modeled concentration at each receptor over the five (5) year period modeled for each receptor.
- Annual SO₂ SIL was based on the maximum annual average concentration over the five (5) year period modeled for each receptor.
- 24-hour PM-2.5 SIL was based on the 5-year average of the maximum 24-hour PM-2.5 concentrations modeled each year at each receptor.
- 24-hour PM-10 SIL was based on the maximum 24-hour concentration over the five (5) years modeled for each receptor.
- Annual PM-2.5 SIL was based on the 5-year average of the annual average concentration modeled each year at each receptor.

Proposed PM-2.5 SIL

The proposed Class I and Class II PM-2.5 SILs for this project are identical to the EPA established SILs. With respect to reliance on the PM-2.5 SILs, EPA has cautioned that reliance on the SILs alone to demonstrate that a source will not cause or contribute to a violation of the PM-2.5 NAAQS is inadequate. However, EPA stated that permitting authorities have the discretion to select and utilize a PM-2.5 SIL value if there is sufficient justification for the selected SIL value and justification in the manner in which it will be used. The SIL values for PM-2.5 in EPA regulations can also continue to be used if the permitting authority also takes background concentrations of PM-2.5 into account. For this Project, the difference between the PM-2.5 NAAQS and the monitored PM-2.5 background concentrations in the area is greater than the SILs. Based on the data in Table 17, over 41 percent of the available standard is still available. Thus, given the amount of available PM-2.5 standard in the Project region, the applicant with ODEQ approval used the EPA PM-2.5 SILs for both Class I and Class II modeling assessments.

SIL Results

Following the requirements of OAR 340-225-0050, the maximum concentrations from the SIL analyses are summarized in Table 15. Only the 1 and 8-hr CO modeled CO concentrations were less than the applicable SILs and no further analyses of CO is required. All other criteria pollutants exceeded the Class II SILs. For SO_2 , the Project does not trigger the requirements of PSD and the modeling analyses for this pollutant was not taken any further other than to add in the background SO_2 concentration data from the ambient monitors identified in the previous section.

To calculate the size of the combined "impact area" from both campuses, the center point between the Gordon Moore Park at Ronler Acres and Aloha sites was used to measure maximum distance from the Project for the furthest significant impact for each significant pollutant. It's noted that for the 1-hour NO₂ SIL, the modeling results extended outward by 18.7 km. Based on EPA modeling guidelines which focus on the 10 km distances for cumulative 1-hour NO₂ assessments, the use of the 18.7 km radius significant impact area (SIA) for the multisource NAAQS and increment assessments would be considered conservative. Table 15 lists the areal extent of the SIAs for each pollutant and averaging period. Attachment C includes figures that display the areal extent of the SIA for each pollutant and averaging period.



	Table 15 Air Quality Impact Results for Significant Impact Levels*										
Pollutant	Averaging Period	Maximum Concentration (μg/m³)	Class II SIL (µg/m³)	Significant Impact Area Radius (km)							
	Steady State and In	termittent Source Ope	rating Conditions*								
NO ₂ a	1-hr 5-year Avg of Max's	116.15	7.5	18.71							
	Annual Max	13.25	1.0	8.53							
СО	1-hour Max	708.80	2,000	N/A							
	8-hour Max	199.60	500	N/A							
PM-10	24-hour Max	9.28	1	6.35							
	Annual Max	2.09	0.2	6.39							
PM-2.5 ^b	24-hr 5-yr Avg of Max's	7.59	1.2	6.94							
	5-yr Avg of Annual Concentrations	1.74	0.2	6.95							

^a NO₂ 1-hour and annual impacts evaluated using ARM2. Emergency generators included using EPA modeling procedure.

ODEQ regulation (OAR 340-224-0070(1)(a) also requires an applicant to provide preconstruction monitoring data for purposes of use in the Source Impacts Analysis. However, a source is exempt from this requirement if its modeled impact for each applicable pollutant in any area is less than the pollutant-specific SMC, which EPA has generally established as five times the lowest detectable concentration of a pollutant that could be measured by available instrumentation. As noted in OAR 340-224-0070(1)(a)(B), "DEQ may exempt the owner or operator of a source from preconstruction monitoring for a specific regulated pollutant if the owner or operator demonstrates that the air quality impact from the emissions increase would be less than the amounts listed below, or that modeled competing source concentrations plus the general background concentration of the regulated pollutant within the source impact area, as defined in OAR 340 division 225, are less than the following significant monitoring concentrations....". Table 16 lists the SMCs for each applicable pollutant. The maximum Project modeled concentration of 7.59 ug/m³ exceeds the SMC for the 24-hour PM-2.5 averaging period. As noted, the Project is not subject to PSD for SO₂.

Even if a source's potential impact exceeds the corresponding SMC, that does not necessarily mean the applicant must install and operate a new monitor at the Project. Rather, according to EPA guidance, an applicant may satisfy the preconstruction monitoring obligation in one of two ways: (i) Where existing ambient monitoring data is available from representative monitoring sites, the permitting agency may deem it acceptable for use in the Source Impacts Analysis; or (ii) where existing, representative data are not available, then the applicant must obtain site-specific data.



PM-2.5 modeled concentrations were adjusted by the MERP results to account for secondary PM-2.5 formation.

^{*} All sources (new and existing)

Table 16 Significant Monitoring Concentrations*	
CO: 8-hr average	575 μg/m³
PM-10: 24-hr average	10 μg/m³
PM-2.5 24-hr average*	4 μg/m³
NO ₂ : annual average	14 μg/m³
SO₂: 24-hr average	13 μg/m³
Note: The 24-hour PM-2.5 SMC has been vacated. *Only the proposed new sources were assessed for the SMC	

As a general matter, the permitting agency has substantial discretion "to allow representative data submissions (as opposed to conducting new monitoring) on a case-by-case basis." OAR 340-224-0070(1)(a)(vii) states "With DEQ's approval, the owner or operator may use representative or conservative background concentration data in lieu of conducting preconstruction air quality monitoring if the source demonstrates that such data is adequate to determine that the source would not cause or contribute to a violation of an ambient air quality standard or any applicable PSD increment." In determining whether existing data are representative, EPA guidance has emphasized consideration of three factors: monitor location, data quality and currentness of the data. The permitting agency also may approve use of data from a representative "regional" monitoring site for purposes of the NAAQS compliance demonstration.

As noted in Table 16, the PM-2.5 SMC has been vacated. Nevertheless, Intel has proposed utilizing existing monitoring data from the nearby Hare Field as a current and representative estimate of background concentrations. The spatial scale for Hare Field is neighborhood scale which is used for highest concentration, population exposure and general background. Additionally, for PM-2.5 the spatial coverage, currentness and representative conditions to the Project of the existing monitoring stations would satisfy the ODEQ and EPA requirements for waiving the preconstruction monitoring requirements for this pollutant. Intel has utilized representative existing monitoring data as the basis for its preconstruction air quality analyses.

In addition to the SILs and SMC's, a preliminary analysis was performed to determine if the SIL is protective of the NAAQS for applicable pollutants and averaging periods, consistent with the ODEQ Recommended Procedures document. This analysis is done by subtracting the ambient background from the NAAQS to determine if the SIL, as a significance threshold, is protective. As shown in Table 17, the preliminary NAAQS review values are significantly greater than the SILs, which indicates there is sufficient headroom between ambient background and the NAAQS for the SILs to be an appropriate test.



Table 17 Comparison of SILs to Background											
Pollutant	Ave Time.	Background (μg/m³)	Class II SIL (μg/m³)	Background + SIL (μg/m³)	NAAQS (μg/m³)						
PM-2.5	24	20.7	1.2	21.9	35						
PM-2.5	Annual	6.6	0.2	6.9	12						
PM-10	24	39.0	1	40.0	150						
NO ₂	1	56.3	7.5	63.7	188						
NO ₂	Annual	18.1	1	19.1	100						

Project Only National Ambient Air Quality Impact Analyses

In evaluating the impacts of the proposed Project on ambient air quality, the modeled concentrations of the Project were added to the monitored background concentrations and compared to national ambient standards for SO₂, NO₂, PM-10 and PM-2.5. These results are summarized in Table 18 and only represent the Intel sources plus background. For the 1-hour NO₂ NAAQS analyses which include the intermittent sources, both the EPA modeling methodology and Monte Carlo results are presented.

All of the maximum concentrations occurred in the immediate vicinity of proposed Project, either on the Facility fencelines or on the downwash receptor grid. Figure 8 presents the locations of the maximum impacts by pollutant. These maximum concentrations for all five (5) years of meteorological data modeled were used for comparison to the NAAQS. The form of the NAAQS includes the High Sixth-High (H6H) values for the 24-hour PM-10; the 5-year average of the annual 98th percentile 1-hour daily maxima for the 1-hour NO₂ NAAQS and, for PM-2.5, the 5-year average of the annual 98th percentile 24-hour impacts and the 5-year average of the annual impacts. Sources of fugitive dust (PM-10 and PM-2.5) were included and modeled as area sources. Compliance with the NAAQS was demonstrated for all pollutants and averaging times.

	Table 18 Intel Facility Sources (New+Existing) Modeling Results											
Pollutant	ollutant Concentration		Background (μg/m³)	Total (μg/m³)	National Ambient Air Quality Standards (μg/m³)							
	1-hr 5-yr Avg of 98 th %	EPA Method 163.54 ª	-	163.54	188							
NO ₂	1-hr 5-yr Avg of 98 th %	Monte Carlo 170.89 ^b	-	170.89	188							
	Annual Max	13.25	35.6	48.85	100							
SO ₂	1-hr 5-yr Avg of 99 th %	39.97	7.0	46.97	196							



	24-hr Avg	18.38	4.7	23.08	1,300
	Annual Max		1.1	4.93	80
PM-10	24-hour H6H	7.78	39.0	46.78	150
PM-2.5°	24-hr 5-yr Avg of 98 th %	4.50	20.7	25.38	35
rivi-2.5	5-yr Avg of Ann Conc's	1.73	6.6	8.35	12.0

^a NO₂ 1-hour and annual impacts evaluated using the ARM2. Seasonal hour by day added in model.

Multisource Increment and NAAQS Modeling Analyses

The multisource increment and cumulative NAAQS analysis was prepared by using the following basic methodology:

- Establish the radial extent of the SIA based upon the modeled impacts for each pollutant standard. The distance from the source to the furthest impact that is equal to or above an applicable SIL establishes the radius of the area to evaluate. These are summarized in Tables 15 and Table 19
- Obtain from the local air agencies, emission inventories and stack parameters of significant and competing sources within the area to be evaluated. This inventory was provided by the ODEQ based on a radial distance from the source of 50 kilometers.
- Include an additional screening area beyond the furthest distance of the SIA to include significant sources that could contribute to modeled background.
- Model all the sources together to determine the air quality impacts within the SIA for comparison with the increment.
- Add in a monitored background for the NAAQS analyses and if the sum is below the standard, the Project does not contribute to exceedances of the standard.
- If the sum is above the increment or standard, perform a culpability analysis to determine if the Project's emissions contribute a significant impact (in both time and/or space) to the modeled exceedances.

Under EPA's PSD regulations and OAR 340-225-0050, an applicant must conduct a "source impact analysis", which demonstrates that "allowable emission increases from the source in conjunction with all other applicable emissions increases or reductions (including secondary emissions), would not cause or contribute to air pollution in violation of: (1) Any NAAQS in any region; or (2) Any applicable maximum allowable increase (increment) over the baseline concentration in any area."

If a source's modeled impact at any offsite location exceeds the relevant SIL, the source owner must then conduct a "multi-source" (or "cumulative") air quality analysis to determine whether or not the source's emissions will cause or contribute to a violation of the relevant NAAQS or applicable PSD increment. The PSD increment consumption analysis assures that, in those locations currently meeting the federal NAAQS



 $^{^{}b}$ NO $_{2}$ 1-hur evaluated with PVMRM with the NO $_{2}$ /NO $_{x}$ ratios as described previously. Background from seasonal hour by day in AERMOD.

^c PM-2.5 24-hour and annual concentration adjusted by 0.181 and the annual by 0.0108 to reflect secondary PM-2.5 formation.

(i.e., those deemed "attainment" or "unclassifiable"), the concentration of a given pollutant cannot increase by an amount greater than the "maximum allowable increase" specified by the Clean Air Act and/or the PSD regulations for the particular pollutant since the baseline date.

EPA in the 2003 Appendix W to 40 CFR part 51 (68 FR 18439/18440) Modeling guidance prescribes the use of the SILs to establish the SIA, which is used to identify the appropriate geographic area in which a multi-source NAAQS and increment impacts analysis should be conducted. The impact area is the geographical area for which the required air quality analyses for the NAAQS and PSD increments are carried out. Per EPA Appendix W guidance, the larger impact area was then surveyed to identify other "nearby sources", which also should be included in the cumulative impact's analysis. Both Appendix W and the EPA Draft NSR Workshop Manual (October 1990) require that the cumulative and increment impacts analysis to include "nearby sources", which includes "[a]Il sources expected to cause a significant concentration gradient in the vicinity of the source or sources under consideration." Appendix W further instructs that the "impact of nearby sources should be examined at locations where interactions between the plume of the point source under consideration and those of nearby sources (plus natural background) can occur". Emphasizing that "[t]he number of sources is expected to be small except in unusual situations".

This area additionally included all sources out to a 50 km distance from the edge of the SIA (called the screening area or Range of Influence (ROI)) where the significant increase in the potential emission of a pollutant from a new source, or significant net emission increase from a modification, will cause a significant ambient impact (i.e., equal or exceed the applicable SIL). This impact area is then also used in a multi-source cumulative impacts analysis to "guide the identification of other sources to be included in the modeling analyses."

The center point between the Gordon Moore Park at Ronler Acres and Aloha campus was chosen as the center point for each of the SIAs. For NO_2 , the maximum extent of receptors with modeled 1-hour NO_2 impacts greater than or equal to the SIL of 7.5 μ g/m³ (based on the five-year average of maximum annual 1-hour impacts) extended outwards to 18.7 kilometers (km). For the other pollutant SILs, the SIA extended outwards from 6.3 to 8.5 km. For each pollutant and averaging period, for both the increment and NAAQS analyses, all receptors within the maximum radius of each of the SIAs were included in the modeling analysis. Thus, each SIA receptor grid used in the modeling for the significant impacts contains both the significant receptor locations as well as those receptors that are within the maximum radius of the SIA. These receptor grids are summarized in Table 19 and are also included in Attachment C which contains a listing of the receptor file names that were used within each of the SIAs.



	Table 19 Listing of SIA Receptor Grids										
Pollutant	Averaging Period	Class II SIL (ug/m3)	Significant (Y/N)	Max Distance (m)	Number of Receptors within SIL Radius	Receptors Falling Within SIL Radius File Name	Number of Receptors Exceeding SIL	Receptors Exceeding SIL File Name			
СО	1-HR	2000	N	-	-	-	-	-			
CO	8-HR	500	N	-	-	-	-	-			
SO ₂	1-HR	7.8	Υ	-	-	-	-	-			
302	24-HR	5	Υ	-	-	-	-	-			
	Annual	1	Υ	-	-	-	-	-			
PM-10	24-HR	1	Υ	10,224	19,936	Intel-Hillsboro- 24HR-PM10- Radius.ROU	16,594	Intel- Hillsboro- 24HR-PM10- Exceed.ROU			
PM-10	Annual	0.3	Υ	8,233	18,644	Intel-Hillsboro- ANNUAL- PM10- Radius.ROU	12,690	Intel- Hillsboro- ANNUAL- PM10- Exceed.ROU			
PM-2.5	24-HR	1.2	Υ	6,941.5	19,874	Intel-Hillsboro- 24HR-PM25- Radius.ROU	10,475	Intel- Hillsboro- 24HR-PM25- Exceed.ROU			
PM-2.5	Annual	0.2	Υ	6,952.0	16,892	Intel-Hillsboro- ANNUAL- PM25- Radius.ROU	6,451	Intel- Hillsboro- ANNUAL- PM25- Exceed.ROU			
	1-HR	7.5	Υ	18,709.2	21,662	INTEL-1STSIL- 1HR-NO2- Radius.ROU	21,599	INTEL-1STSIL- 1HR-NO2- Exceed.ROU			
NO ₂	Annual	1	Υ	8,531.5	18,899	Intel-Hillsboro- ANNUAL-NO2- Radius.ROU	13,709	Intel- Hillsboro- ANNUAL-NO2- Exceed.ROU			

Based on the previous results of the SIL analyses as summarized in Table 15, increment consumption for 24-hour and annual PM-2.5, 24-hour and annual PM-10 and annual NO $_2$ were assessed. There are no PSD increments for 1-hour NO $_2$ and SO $_2$ was not emitted at the major (PSD) source levels. It should be noted that the annual PM-10 NAAQS has been revoked but the annual increment remains in place. Table 20 presents the Class II PSD increment limits used in the modeling analyses.

The major and minor source baseline dates for NO_2 , PM-10 and PM-2.5 have already been triggered, so the increment modeling analyses included developing an initial list of increment consuming sources in the airshed. ODEQ provided an emission inventory of all NO_2 sources within 50 km and 20 km for the PM-10 and PM-2.5 sources of the Project. The inventory listed 221 individual sources and contained the source locations, PSEL emission rates and stack parameters. A complete copy of this inventory is provided in Attachment C.



Table 20 PSD Class II Increments									
Pollutant/Avg. Period Class II Increment (μg/m³)									
NO	1-hour	-							
NO ₂	Annual	25							
DM 10	24-hour	30 ^a							
PM-10	Annual	17							
DN 4 2 F	24-hour	9ª							
PM-2.5	Annual	4							

The ODEQ emissions inventory is based on the source's permitted emission limits and does not include any information on the source's actual emissions. PSD increment modeling is based on actual emissions so as to establish the actual expansion or contraction of the available increment. As such, it was assumed that in the absence of a distinct increment (actual emission) inventory, all provided background sources were to be considered as increment consuming sources using the permitted PSEL's from each source. This results in an overestimate of the increment consumption in the air basin.

To limit the total number of sources used in the increment and cumulative NAAQS analyses, sources were excluded from the ODEQ lists if their emissions of NO_x, PM-10 and PM-2.5 were less than one (1) ton per year. Sources with Basic or General permits were also excluded from the inventory as these permit types reflect small or insignificant source activities that do not require dispersion modeling. These small sources would not be expected to cause a significant concentration gradient within the SIA nor would they be expected to significantly contribute to the modeled concentrations within the SIA. The removal of these sources will still result in conservative modeling results. Sources where the primary emissions were VOCs were also excluded from the multisource analyses. Sources with emissions based primarily on CO were also excluded from consideration as the Project impacts are all less than the CO 1-hour and 8-hour SILs. Additionally, sources in Multnomah and North Clackamas Counties were excluded due to the blocking effect of the West Hills and would not be expected to impact the areas near the Project locations. This resulted in a list of 26 facilities as shown in Table 21.

Several adjustments were made to the competing source lists. If a combustion source had PM-10 emissions but no PM-2.5 emissions (or vis versa), it was assumed the PM-2.5 emissions were the same as the PM-10 emissions. For non-combustion sources like road dust, material handling, and storage piles, the missing PM-2.5 emissions were scaled from the PM-10 emission using the appropriate EPA AP-42 PM-2.5 and PM-10 particle size multipliers. The coordinates provided by DEQ represent an approximate facility location which, in some cases, did not represent the actual stack location. Adjustments to the facility coordinates were made using Google maps to better identify actual stack locations. These 26 facilities represent 33 individual stacks which were modeled for both increment consumption and for the NAAQS. The 33 individual stacks are presented in Table 22.

The ODEQ emissions inventory included multiple emission points for many of the sources, with emissions and either actual or default stack parameters. Where appropriate, emission points with common stack parameters were merged into a single emission point. Aggregate Insignificant Activities emissions were merged into one of the other source's emission points. All emission points were modeled as point sources



using the stack parameters provided by ODEQ. Short term emission rates were based on an annualized hourly emission rate. Table 22 shows the final list of competing source emission points used in the increment and NAAQS analyses. Additional details of the sources as input into AERMOD are presented in Attachment C.

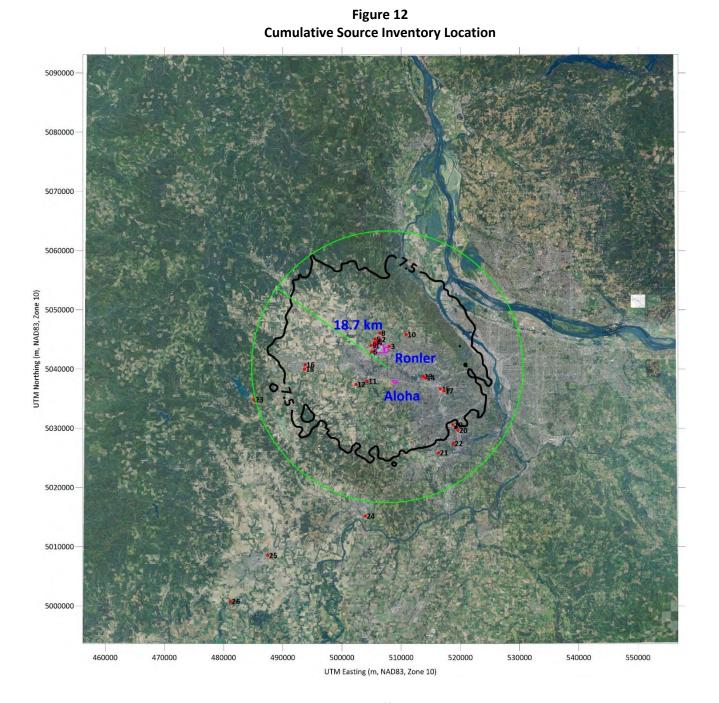
			Increase		able 21 I NAAQS S	ourse List		
Permit Number	Model ID	X(m)	Y(m)	D (km)	NAAQS S NO _x (TPY)	PM-2.5 (TPY)	PM-10 (TPY)	Source Name
34-2813	1	505425.8	5043934	1.00	1.15	0.00	0.00	"Jireh Semiconductor Incorporated"
34-0241	2	506473.2	5044990	1.38	1.97	0.03	0.03	"Flexential Colorado Corp"
34-0183	3	508014	5043820	1.45	20.90	0.70	0.70	"STACK Infrastructure, Inc."
34-2790	4	505870.9	5044457	1.50	1.99	0.00	0.00	"Tokyo Ohka Kogyo America, Inc."
34-0222	5	505596.5	5045037	1.52	2.05	0.00	0.00	"QTS Investment Properties Hillsboro, LLC"
34-0055	6	504994.8	5042902	1.57	2.50	0.06	0.06	"Qorvo US, Inc."
34-9507	7	505463.5	5044497	1.91	2.62	0.35	0.35	"Genentech, Inc."
34-0186	8	506407	5046058	2.34	21.63	1.50	1.50	"Beaver Ventures LLC"
34-0235	9	504885	5043965	4.30	1.07	0.00	0.00	"NTT Global Data Centers HI, LLC"
34-2639	10	510829	5045802	5.31	1.11	0.03	0.03	"Portland Community College"
34-2753	11	504242.9	5037930	5.59	42.80	0.87	0.87	"Clean Water Services"
34-0004	12	502344	5037386	7.34	19.12	2.78	5.95	"Hillsboro Landfill Inc."
34-2804	13	513703	5038745	8.71	1.69	0.17	0.17	"Analog Devices, Inc."
34-2638	14	514063	5038512	9.14	2.54	0.06	0.06	"Tektronix, Inc."
34-2783	15	516615	5036641	12.30	3.40	0.58	0.58	"Bimbo Bakeries USA, Inc."
34-2756	16	493752	5040722	12.95	0.00	1.87	1.87	"DMH, Inc."
34-0009	17	517194	5036298	12.98	2.08	0.00	0.00	"International Paper Company"
34-2678	18	493642	5039988	13.23	1.70	0.00	0.00	"TTM Technologies North America, LLC"
34-9514	19	518751	5030570	17.88	1.33	0.00	0.00	"Regenyx LLC"
34-0007	20	519559	5029639	19.11	0.00	4.48	4.48	"Fought & Company, Inc."
34-0063	21	516283	5025853	20.23	2.97	0.00	0.00	"Lam Research Corporation"
34-2623	22	518784	5027415	20.30	29.51	0.00	0.00	"Clean Water Services"
34-2066	23	485113.2	5034818	22.82	36.70	0.00	0.00	"Stimson Lumber Company"
36-9504	24	503921	5015168	28.44	1.32	0.00	0.00	"City of Newberg"
36-5034	25	487440	5008513	39.79	170.67	0.00	0.00	"Cascade Steel Rolling Mills, Inc."
36-0011	26	481137	5000753	49.65	51.70	0.00	0.00	"Riverbend Landfill Co."
Total TPY					424.5	13.5	16.6	
D=distance fro		•)					

Based on the radial distances of the SIAs, the competing source list provided by the ODEQ was input into each model run for the multisource NAAQS and increment analyses, based on the specific SIA receptor grids listed in Table 19. The inventory contained sources that were based on the maximum potential



emissions (PTE) with the total modeled tons provided in Table 21. While increment analyses use actual emissions, the use of PTE is considered conservative and will overestimate the increment consumption in the area.

Figure 12 presents the locations and names of the cumulative sources from Table 21 used in the increment and NAAQS modeling assessments. The 1-hr NO_2 isopleth of 7.5 ug/m^3 represents the largest SIA with an 18.71 km radius which was used in the figure for reference.



3

					Tal	ble 22					
	Mo	odeled N	AAQS/Inc	rement	t Source	Emissio	n Points a	and Stack	Paramete	ers	
Permit Number	Model ID	X (m)	Y(m)	Z(m)	H(m)	Temp (K)	Vel (m/s)	Diam (m)	NOX (TPY)	PM-10 (TPY)	PM-2.5 (TPY)
34-2813	CS01x01	505426	5043934	65.21	18.29	422.04	11.28	2.44	1.15	0.00	0.00
34-0241	CS02x01	506473	5044990	63.83	18.29	422.04	11.28	2.44	1.97	0.03	0.03
34-0183	CS03x01	508014	5043820	67.58	18.29	422.04	11.28	2.44	20.90	0.70	0.70
34-2790	CS04x01	505871	5044457	65.68	18.29	422.04	11.28	2.44	1.99	0.00	0.00
34-0222	CS05x01	505596	5045037	60	18.29	422.04	11.28	2.44	2.05	0.00	0.00
34-0055	CS06x01	504995	5042902	56.95	18.29	422.04	11.28	2.44	2.50	0.06	0.06
34-9507	CS07x01	505463	5044497	64.3	18.29	422.04	11.28	2.44	2.62	0.35	0.35
34-0186	CS08x01	506407	5046058	66.99	18.29	422.04	11.28	2.44	21.63	1.50	1.50
34-0235	CS09x01	504885	5043965	65.08	18.29	422.04	11.28	2.44	1.07	0.00	0.00
34-2639	CS10x01	510829	5045802	79.95	18.29	422.04	11.28	2.44	1.11	0.03	0.03
34-2753	CS11x01	504243	5037930	48.41	18.29	422.04	11.28	2.44	42.80	0.87	0.87
34-0004	CS12x01	502344	5037386	56.28	6.10	295.37	2.13	15.24	0.00	3.62	0.46
34-0004	CS12x02	502344	5037386	56.28	18.29	422.04	11.28	2.44	19.12	2.32	2.32
34-2804	CS13x01	513703	5038745	62.28	18.29	422.04	11.28	2.44	1.69	0.17	0.17
34-2638	CS14x01	514063	5038512	59.64	18.29	422.04	11.28	2.44	2.54	0.06	0.06
34-2783	CS15x01	516615	5036641	60.64	18.29	422.04	11.28	2.44	3.40	0.58	0.58
34-2756	CS16x01	493752	5040722	55.09	18.29	422.04	11.28	2.44	0.00	1.87	1.87
34-0009	CS17x01	517194	5036298	67.27	18.29	422.04	11.28	2.44	2.08	0.00	0.00
34-2678	CS18x01	493642	5039988	52.86	18.29	422.04	11.28	2.44	1.70	0.00	0.00
34-9514	CS19x01	518751	5030570	48.41	12.19	295.37	12.19	1.52	1.33	0.00	0.00
34-0007	CS20x01	519559	5029639	70.81	12.19	295.37	12.19	1.52	0.00	4.48	4.48
34-0063	CS21x01	516283	5025853	44.25	18.29	422.04	11.28	2.44	2.97	0.00	0.00
34-2623	CS22x01	518784	5027415	41.71	18.29	422.04	11.28	2.44	29.51	0.00	0.00
34-2066	CS23x01	485113	5034818	65.06	34.99	453.71	11.80	1.71	36.70	0.00	0.00
36-9504	CS24x01	503921	5015168	51.15	18.29	422.04	11.28	2.44	1.16	0.00	0.00
36-9504	CS24x02	503921	5015168	51.15	12.19	295.37	12.19	1.52	0.16	0.00	0.00
36-5034	CS25x01	487440	5008513	45.63	18.29	422.04	11.28	2.44	7.51	0.00	0.00
36-5034	CS25x02	487440	5008513	45.63	12.19	295.37	12.19	1.52	0.76	0.00	0.00
36-5034	CS25x03	487440	5008513	45.63	15.24	322.59	31.70	3.75	115.00	0.00	0.00
36-5034	CS25x04	487440	5008513	45.63	22.86	307.04	3.05	3.75	16.50	0.00	0.00
36-5034	CS25x05	487440	5008513	45.63	22.86	645.54	7.53	1.74	30.90	0.00	0.00
36-0011	CS26x01	481137	5000753	37.27	9.14	611.26	8.38	1.92	11.30	0.00	0.00
36-0011	CS26x02	481137	5000753	37.27	9.75	922.04	7.55	1.52	40.40	0.00	0.00

The results of the increment consumption analysis are presented in Table 23 and demonstrate that the Project will not exceed the allowed PSD increments.



	Table 23 PSD Class II Increment Results									
Pollutant	Avg. Period	Modeled Concentration (μg/m³)	PSD Class II Increment (µg/m³)							
NO ₂	Annual	13.37	25							
PM-10	24-hr (H2H)	8.63	30							
	Annual	2.10	17							
PM-2.5	24-hr (H2H)	7.25	9							
	Annual	1.92	4							

H2H = high second high on an annual basis. Increment not to be exceeded more than once per year. PM-2.5 includes secondary formation.

While the cumulative source inventory is the same for both the increment and NAAQS analyses, the averaging period for the NAAQS is different than the PSD increment. The results of the cumulative modeling analysis, with all existing and proposed Intel Facility sources combined with the sources listed in Table 22 were then added to the applicable background monitored data to calculate a total cumulative modeled concentration(s). Table 23 presents the multisource NAAQS analysis which demonstrates that the Project will not exceed the applicable ambient air quality standards for any pollutant.

Table 23 Air Quality Impact Results for Cumulative Modeling Analysis – National Ambient Air Quality Standards										
Pollutant	Avg. Period	Modeled Concentration (μg/m³)	Background (μg/m³)	Total (μg/m³)	National Ambient Air Quality Standard (μg/m³)					
NO ₂	1-hr 5-yr Avg of 98 th %	N/A		184.54	188					
	Annual	13.37	35.60	48.97	100					
DN4 10	24-hr H6H	7.8	39.0	46.80	150					
LIAI-TO		-	-							
PM-2.5	24-hr 98 th %	4.68	20.7	25.39	35					
P1V1-2.3	Annual	1.74	6.6	8.34	12					

 NO_2 impacts were evaluated using the ARM2 with hourly seasonal background values added consistent with EPA modeling guidelines (so separate modeled and background values not available). Monte Carlo results are not required for multisource NAAQS.

Secondary PM-2.5 formation from MERPs included in PM-2.5 results.



Soils and Vegetation

Regulatory Overview and Background

OAR 340-225-0050 requires that an analysis of the impact to soils and vegetation of significant commercial or recreational value that would occur as a result of the Project be conducted. The regulation indicates that the owner or operator need not provide an analysis of the impact on vegetation having no significant commercial or recreational value. EPA has also requested on past PSD permit applications that the analysis of soils and vegetation impacts be supplemented pursuant to the following Environmental Appeals Board case: *In re: Indeck-Elwood, LLC*; PSD Appeal No. 03-04; PSD Permit No. 197035AAJ (decided September 27, 2006) ("Indeck"). The Indeck case contemplates the need for additional analysis beyond a "screening analysis" with respect to soil and vegetation for a PSD application. Accordingly, the Indeck case was reviewed for applicability to this Project. As an initial matter, key aspects of the Indeck case are not directly applicable. For example, the Project utilizes clean, state-of-the-art, gas-fired sources located within developed city limits, while the Indeck facility is a proposed large-scale coal-fired power plant located approximate to a prairie reserve of national importance.

Although a more rigorous analysis is provided herein, we note that the Project will have substantially lower air quality impacts than would a coal-fired power plant. The key holding of Indeck is that an agency should consider requiring more than a "screening analysis" to evaluate soil and vegetation impacts to the extent that the 1990 New Source Review (NSR) Manual would result in a different significance conclusion. In particular, the Indeck case contemplates an inventory of applicable soils and vegetation and consideration of site-specific effects where appropriate to identify potential impacts. *See*, *e.g.*, Indeck, pp. D.4-5 and D.11-12.

Following the review of Indeck, ADI prepared a soils and vegetation analysis to ensure the analysis reflected the methodology in the 1990 NSR Manual (EPA, 1990). The guidance in the 1990 NSR Manual, Section II.C Soils and Vegetation Analysis, is brief, less than one page long. The key components of the analysis are to develop an inventory of the soils and vegetation types with commercial or recreational value found in the area, and to analyze the impacts from *regulated pollutants* that are proposed to be emitted by the Facility. This requirement only applies to regulated pollutants that are to be emitted from the Facility in *significant amounts*. While an example related to fluorides is provided in Section II.C, an additional example analysis provided in Section III.C of the NSR Manual clearly states "...the sensitivity of the various soils and vegetation types to each of the applicable pollutants that will be emitted by the facility *in significant amounts*." (pg D.11, emphasis added).

Extent of the Analysis

The maximum modeled CO 1-hour and 8-hour concentrations for the Project impacts did not exceed the EPA SILs and are thus, not expected to impact any type of plant species. The maximum modeled NO₂ impacts for 1-hour and annual did exceed the EPA SILs with the SIL radius extending outwards to 8.5 km for the annual NO₂ averaging period and 18.7 km for the 1-hour extent. The maximum 1-hour and annual NO₂ impact locations all fell within 150 meters of the Gordon Moore Park at Ronler Acres fenceline. Because pollutant concentrations associated with the Project are highest within the immediate area of the Project and rapidly drops off with distance, the analysis for the SIA provide conservative pollutant concentration values in regard to the regional Project impact. In addition, the SIA includes land use,



terrain, soil type, and flora that is typical of Washington and Multnomah Counties. The SIA area in Figure 12 and those presented in Attachment C encompasses industrial land, undeveloped land, the Hillsboro airport, agriculture and commercial/light industrial properties.

Vegetation Types

Several agricultural crops are grown within the vicinity of each of the Project sites. These crops include primarily commercial corn and wheat (summer and winter) production. Agricultural lands are adjacent to the Project sites towards the east, west and south. Agricultural lands extending outwards within the NO₂ SIA also include barley, alfalfa, hops, grapes, blueberries, etc.

Within the defined 1-hour and annual NO₂ SIA, the non-commercial vegetation communities in the immediate surrounding areas can generally be classified as mixed forest, developed land and shrubland. No known federal or state sensitive plant species were identified. No designated critical habitat areas for federally listed species were identified.

The document developed by the U.S. Department of Agriculture (USDA) entitled, A Screening Procedure to Evaluate Air Pollution Effects in Region 1 Wilderness Areas, 1991 was utilized for this assessment to determine the potential impacts of the modeled NO₂ concentrations. The 1991 document includes plant species specific pollutant concentration thresholds for western U.S. species, as well as other information that complements the 1980 EPA guidance. The two referenced guidance documents have been reviewed to identify the most appropriate threshold values (if available) for this region based upon the species identified that have significant commercial or recreational value.

Although the reference documents do not provide values for all of the identified species or pollutants, they do provide information about the alfalfa and barley field crops which are two of the lesser secondary crops in the vicinity of the Project area. Based upon the information provided in Appendix B in A Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils and Animals, the alfalfa and barley crops were found to be rated as "sensitive" to NO₂. The "sensitive" rating means that the lowest damage threshold is applied. Based upon this information, the proposed impact analysis was based upon compliance with the threshold levels for "sensitive" vegetation that are identified in Table 3.1 of A Screening Procedure for the Impacts of Air Pollution Sources on Plants, Soils and Animals. In that table, the total modeled air concentrations for the proposed Project plus ambient background concentrations are compared to the criteria to evaluate impacts. The total concentrations for both 1-hour and annual NO₂ are well below the significance criteria of 3,760 ug/m³ and 94 ug/m³ respectively. Since no thresholds were exceeded, there is no potential for adverse impact on vegetation. This approach uses the most stringent level of damage threshold to assure conservative results, thus additional evaluation of impacts of air pollutants to vegetation is unnecessary.

Attachment D contains a listing of the commercial and non-commercial plant species in the Project area.

Soil Types

Soils on and around the two Project sites are primarily loams, silt loams, and silty clay loams which include Aloha silt loam, Willamette silt loam, Woodburn silt loam, Amity silt loam, and Verboort silty clay loam. Attachment D contains a complete listing of the soil types found in the vicinity of the Project.



Nitrogen Deposition

In addition to the ambient pollutant exposure levels, plants have the potential to be affected by intake of air pollutants that have deposited and subsequently accumulated in the soil. Compared to the amount of published information on the effects of atmospheric pollution on plants and animals, relatively little has been reported on their effects on soils. Often the effect on soils can be seen in plants and animals such that the impacts to soil are secondary. For instance, if contaminated soil causes vegetative damage, the result could be increased erosion, increase in solar radiation reaching the ground, higher soil temperature and moisture stress. In agricultural and populated areas, intentional human actions taken to improve soils and assist vegetation growth, such as fertilization and application of insecticides, tend to have a much more direct and profound effect on soils than airborne pollutants. Nitrogen can be added to soil as a result of atmospheric deposition. Nitrogen deposition in soil can have beneficial effects to vegetation if they are currently lacking these elements. At levels above plant requirements, gaseous emission impacts on soils can cause acidic conditions to develop. Soil acidification and eutrophication can occur as a result of atmospheric deposition of nitrogen.

To calculate nitrogen depositional impacts from operation of the Project, the *Near Field Nitrogen Deposition Modeling Guidance (November 2013)* was followed. The primary purpose of any screening analysis is to produce a preliminary or conservative estimate of potential impacts (EPA, 2005). Using non-reactive (no chemistry) dispersion models such as AERMOD to complete a deposition analysis by assuming all NO_x emissions are converted into depositional nitrogen provides a conservative methodology.

A threshold at which harmful effects from nitrogen deposition on plant communities has not been firmly established. Research conducted in the South San Francisco Bay Area indicates that intensified annual grass invasions can occur in areas with nitrogen deposition levels of 11–20 kg/ha/yr. A Nitric Acid depositional value of 0.05 m/s was applied to the average of the SIA annual NO₂ concentrations, in order to calculate the rate of deposition. The use of 0.05 m/s deposition velocity is consistent with Class I nitrogen deposition analysis. The levels of nitrogen deposition in the area around the Project are estimated at 5.89 kg/ha-yr, far below levels necessary to cause adverse effects.

Furthermore, the level of nitrogen deposition from the Project on plant-available nitrogen would actually be less than the calculated amount because the deposition will be distributed in small amounts during the year and not all of the nitrogen added to the soil during each deposition event is available for plant use because of losses associated with soil processes. Therefore, it is unlikely that there would be significant impacts to biological resources from nitrogen deposition.

Soil Acidification

As noted above, nitrogen deposition acts as a plant nutrient that can benefit soils, especially soils such as the sandy loam that exists in the Project area. However, this soil amendment can also be detrimental where it benefits non-native plants competing with native vegetation. No sensitive vegetative communities have been identified in the vicinity of Project that would be expected to be negatively impacted by nitrogen deposition.



Soil Eutrophication

Eutrophication is an increase in the concentration of chemical nutrients in an ecosystem to an extent that increases the primary productivity of the ecosystem. Atmospheric deposition of nitrogen can facilitate eutrophication of the soil and vegetation community.

A measure of the existing ambient deposition (wet + dry) in the area was obtained from the closest representative monitors in the National Atmospheric Deposition Program (NADP) monitoring network (https://nadp.slh.wisc.edu/) at the Columbia River Gorge monitoring site (WA98) in Skamania County, Washington. This monitor is operated by the USFS. The most recent background deposition is based on dry plus wet deposition data 1.894 kg/ha/yr for 2021. Since the Project incremental annual nitrogen is was calculated at 5.89 kg/ha-y, the addition of the background for a total deposition rate of 7.79 kg/ha-yr is still below the threshold needed for adverse effects. Thus, the effects of deposition on eutrophication are considered to be insignificant.

Class I Impact Assessment

OAR 340-225-0070 requires PSD sources to assess compliance with Air Quality Related Values (AQRVs) if the source could impact visibility or deposition. This requirement is also summarized in EPA's Draft NSR Workshop Manual, where an impact analysis must be performed for any PSD source which "may affect" a Class I area. Thee AQRV requirement includes any PSD source located within 100 km of a Class I area. However, Class I areas typically within 300 km are included in this type of analysis. OAR 340-225-0700 requires the ODEQ to provide notice of PSD permit applications to the EPA and Federal Land Managers. This notification was completed by the ODEQ and was incorporated into the ODEQ comments on the modeling protocol.

Intel is now a major source for criteria pollutant emissions and is therefore automatically subject to PSD permitting requirements. The nearest Class I area is Mount Hood, located 80 km from the Gordon Moore Park at Ronler Acres (see Figure 13). Eight (8) additional Class I areas are identified within 300 km of the Project. The Class I coordinates are based on the National Park Service (NPS) Class I receptor list converted from latitude/longitude to UTM NAD83 coordinates.

Following OAR 340 division 25 and the FLAG Workshop procedures (June 2010) for PSD sources greater than 50 km from a Class I area, the use of the Screening Procedure Q/D was utilized to determine if the Project could screen out of a formal AQRV assessment for visibility and nitrogen deposition (Q is the total emissions in tons per year and D is the distance in kilometers to the Class I area). Following these procedures in, Q is calculated as the sum (in tons/year) of emissions of NO_x and PM-10 based on the maximum 24-hour net emissions increase for each pollutant from the proposed Project. The actual baseline emissions were not included in the proposed increase, as per FLAG with ODEQ concurrence. There will be no increase in SO_2 emissions over the existing PSEL so this pollutant was not included in the calculation of Q. The existing PSEL emissions and the proposed hourly increases converted to tons are summarized in Table 24.

The screening calculation takes the form of:

 $Q = sum (NO_x+PM-10)$ in lbs/hr (for 24-hours) for the worst-case day * 365 days/year



Table 24 Existing and Proposed Emissions Profiles							
	NO _x tpy	PM-10 tpy	Q tons				
Current PSEL	197.0	35.0	-				
Proposed Increase without Emergency Generators	184.0*	24*	-				
Proposed Increase Emergency Generators Only (worst-case day)	124.1*	1.17*	-				
Total for Q/D Calculation	308.10	25.17	333.27				
Total PTE	403.0	59					
* Based on worst case day multiplied by 365 days and converted to tons per year							

All the non-emergency sources are steady state and operate almost continuously 24-hours per day. The emergency diesel generators are limited to 25 hours per year, with no more than 10 engines being tested during any day. To determine the worst-case daily emissions for the emergency generators, the 10 highest emitting engines' emissions were summed to calculate a pound per day (lb/day) emission rate. This was then multiplied by 365 days and converted to tons per year (tpy) to calculate the engines contribution to the total emissions (Q). As an example, for NO_x :

Each emergency generators at 68 lb/hr each or 10 engines on a daily basis at 680 lb/day 680 lb/day * 365 day/yr * 1 ton/2000 lb = 124.1 tpy

This is repeated for PM-10 but with a different set of 10 engines which have a higher PM-10 emission rate.

Each emergency generators at 0.641 lb/hr each or 10 engines on a daily basis at 6.41 lb/day 6.41 lb/day * 365 day/yr * 1 ton/2000 lb = 1.17 tpy

Using this procedure on the emergency generators which is then added to the steady state Q, the total Facility Q based on the increase in NO_x and PM-10 is:

Q = sum (NO_x+PM-10) in maximum lbs/day (for the worst-case day including emergency generators) * 365 days/year * 1 ton/2000 lbs = 333.27 tons

The results of the Q/D scenarios are presented in Table 25. If Q/D is less than 10, then the AQRV analysis can be waived as a requirement. All of the Class I areas have a Q/D ratio less than threshold of 10. In accordance with OAR 340-225-0070, the Federal Land Managers (FLMs) of Class I areas potentially affected by the project were notified by ODEQ of the pending permit application. In the FLM responses, the U.S Forest Service and the National Park Service, as FLMs, have both stated that an analysis of AQRVs is not required for their respective Class I areas and the Columbia River Gorge National Scenic Area.

In addition to the above AQRV analysis, OAR 340-225-0060 requires Class I SILs modeling to be performed to determine if a Class I increment and NAAQS analyses would be required for the major source pollutants.



TABLE 25 NEARBY CLASS I AREAS AND Q/D SCREENING RESULTS						
Class I Areas	Minimum Distance (km)	Q/D*				
Mt Hood OR (MOHO)	80	4.2				
Mt Jefferson OR (MOJE)	116	2.9				
Mt Adams WA (MOAD)	121	2.8				
Goat Rocks WA (GORO)	145	2.3				
Mt Washington WA (MOWA)	150	2.2				
Mt Rainier WA (MORA)	153	2.2				
Three Sisters OR (THSI)	167	2.0				
Diamond Creek (DC)	223	1.5				
Crater Lake (CR)	279	1.2				

PSD Class I SILs AERMOD Analyses

OAR 340-225-0060 requires that the Project must demonstrate compliance with the NAAQS and increments in PSD Class I areas. This requirement is only applicable if the Project exceeds the Class I SILs. Therefore, Class I SILs modeling were assessed for the Class I areas listed in Table 25 using the procedures in OAR 340-225-0030 (Procedures) and 340-225-0040 (Air Quality Models). Modeling was performed for the Project emissions only and then compared to the applicable Class I SILs in OAR 340-200-0020. The Class I receptor grid and elevations given by the National Park Service Air Resources Division on the webpage were used:

http://www.nature.nps.gov/air/Maps/Receptors/index.cfm

These receptors were converted to UTM NAD83 coordinates by the US Army Corps of Engineers CORPSCON program for Class I areas within 50 km of the Project site(s).

The EPA Modeling Guidelines suggest that the use of AERMOD be limited to distances of less than approximately 50 km, beyond which the CALPUFF dispersion model is typically used to assess the long-range transport of pollutants. Since the requirement to assess AQRVs for each of these areas was waived, an alternative modeling approach with AERMOD was used for assessing Class I SILs for each Class I area that is located at a distance greater than 50 km. The proposed approach utilizes a ring of receptors at 50 km distance from the Project, with receptors placed at two (2) degree intervals over the entire 360-degree circle of receptors. For each of these receptors, the receptor heights were based on a range of elevations that correlate with each of the nine (9) Class I areas listed in Table 25. 100-meter elevation intervals were used starting at the lowest elevation up to the highest. Using this grid, the Class I SILs listed in Table 26 were assessed. If any of the Class I areas have impacts that exceed the SILs, then the CALPUFF modeling will be used to reassess these SILs and, if needed, would also be used to assess PSD Class I area increments and NAAQS. Figure 13 presents the AERMOD receptor grids developed used in the Class I SIL analysis.

Single source impacts on secondary PM-2.5 tend to decrease as distance from the source increases (Baker et al., 2016), which means peak source impacts presented as PM-2.5 in the NAAQS air quality assessment



may not provide relevant information for the spatial scales involved between Project sources and Class I areas. Given that Project source impacts will be lower at greater distances, the MERPs listed in Table 14 would overestimate the secondary PM-2.5 formation as the source and Class I areas are not in close proximity.

Using the distance correction outlined in the memorandum from EPA dated April 2019, "Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone (O₃) and PM2.5 under the PSD Permitting Program.", the hypothetical source concentrations from MERPs View Qlik were selected based on the distance to the nearest Class I area, Mount Hood, at 80 km. Using the Morrow, Oregon site, this produced the following secondary PM-2.5 formations based on the modeled hypothetical source and resultant MERP concentration from the MERP View Qlik output:

- $24-hr = 0.0903 ug/m^3$
- Annual = $0.0039 \, ug/m^3$

Attachment C contains the MERP View Qlik distance dependent concentrations for the 80 km distance. These were added to the Class I SIL modeling results for comparisons with the Class I SILs. Additional distance dependent MERP analyses were not made as the closest Class I area used in the analysis would be considered conservative.

Using the Class I modeling grid, the Class I SILs were assessed with the maximum results listed in Table 26. These are the maximum 24-hour and annual impacts over the 5-years modeled at all of the receptors. The results of the Class I SIL analysis demonstrate that all modeled impacts, including secondary PM-2.5 formation, will be less than the applicable Class I SIL. Thus, no Class I increment, or NAAQS analysis is required at any of the areas.



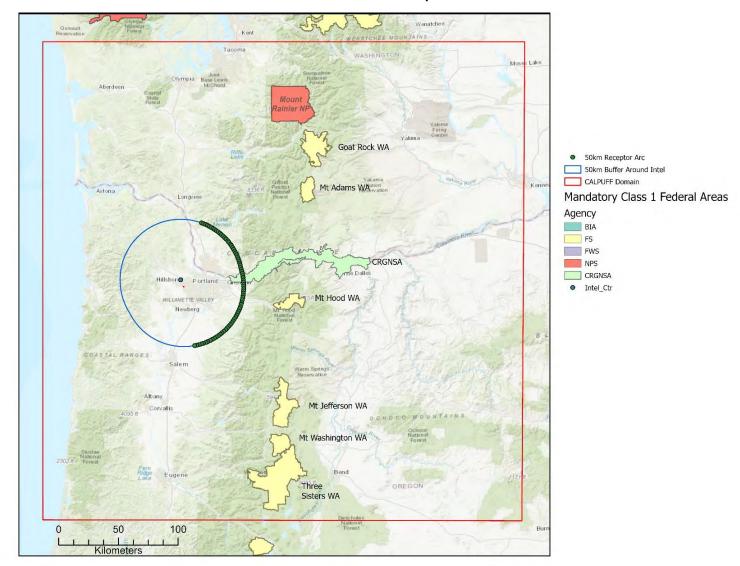


Figure 13
Class I Areas and the AERMOD Receptors



TABLE 26 Criteria Pollutant Class I SILs and Increments									
Pollutant	Averaging Interval	Maximum Modeled Impact on Receptor Ring (50 km) (μg/m³)	Class I Significant Impact Level (µg/m³)	Class I PSD Increment (µg/m³)					
NO₂	Annual	0.00308	0.1	2.5					
PM-10	24-Hour Annual	0.0619 0.0062	0.3 0.2	25 5					
PM-2.5	24-Hour Annual	0.128 0.009	0.27 0.05	2 1					
Secondary PM-2.5 were added to	the primary PM-2.5	modeled concentrations.	1						

Conclusion

In summary, the dispersion modeling assessment used all the existing and new source emissions in the SILs, PSD increment and NAAQS analyses. Based on these modeling results which utilized the data presented in this Air Quality Impact Assessment, the project will comply with all NAAQS and PSD increments and will not cause or contribute to exceedances of any ambient standard or limit. The applicable requirements of OAR 340 divisions 224 and 225 addressed herein have been completed.



Attachment A ODEQ Modeling Protocol and Approval Letter



ODEQ Air Contaminant Discharge Permit Application

Air Quality Modeling Protocol

Intel Corporation Ronler Acres/Aloha Project



Submitted to Oregon Department of Environmental Quality

Submitted by



Prepared by

Atmospheric Dynamics, Inc.

April 2023

INTRODUCTION AND PROJECT DESCRIPTION

Intel Corporation (Intel) operates the Ronler Acres and Aloha semiconductor manufacturing facilities (Facility) in Washington County, Oregon. The Ronler Acres campus is located at 2501 NE Century Boulevard, Hillsboro, Oregon, which has a Universal Transverse Mercator (UTM) North American Datum (NAD) 83 coordinate of 506601.5 meters Easting, 5043404.5 meters Northing (Zone 10). The Aloha campus is located at 3585 SW 198th Avenue, Aloha Oregon, and has a UTM NAD 83 coordinate of 509003.2 meters Easting, 5037811.5 meters Northing (Zone 10) latitude /longitude of 122.8851359° W, 45.4937841° N. The Aloha campus has been operating since 1976 while the Ronler Acres campus began operation in 1994. Both campuses are engaged in the production of semiconductor products and are considered co-located for permitting purposes because their production activities are interrelated. Both campuses are regulated under a single Standard Air Contaminant Discharge Permit (ACDP), 34-2681-SI-02, issued by the Oregon Department of Environmental Quality (DEQ) in 2016 and most recently modified in 2022.

Intel is submitting a Type 4 Maintenance Area New Source Review (NSR) and Prevention of Significant Deterioration (PSD) permit application due to proposed changes at the Facility meeting the definition of "major modification" in OAR 340-224-0025. Changes at the Facility include additional fabrication (fab) cleanroom space (D1X MOD4 and D1A expansion), and increased emissions at the existing fabs due to advances in technology manufacturing and additional manufacturing support operations. The proposed major modification will trigger the Maintenance Area NSR requirements in OAR 340-224-0060 and the Prevention of Significant Deterioration (PSD) requirements in OAR 340-224-0070. A common requirement of both sets of requirements is the need to demonstrate that the proposed changes will not cause or contribute to an exceedance of the National Ambient Air Quality Standards. Modifications subject to Division 224 requirements must be permitted as Type 4 construction approvals.

This modeling protocol describes the Class I and Class II modeling steps, methods and assumptions that will be performed to support the Type 4 construction approval permit application. The modeling will be based on the ODEQ "Recommended Procedures for Air Quality Dispersion Modeling" (March 2022). Table 1 summarizes the proposed analyses on a pollutant specific basis. The modeling will follow procedures as summarized by the United States Environmental Protection Agency (EPA) Appendix W modeling guidelines. Additional guidance procedures are summarized below and throughout the text: U.S. Environmental Protection Agency (EPA) in its "Guideline on Air Quality Models" (including supplements), EPA Memorandum "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO₂ National Ambient Air Quality Standard" (March 2011), EPA Memorandum "Clarification on the Use of AERMOD Dispersion Modeling for Demonstrating Compliance with the NO₂ NAAQS" (September 2014) "EPA Memorandum "Guidance for Ozone and Fine Particulate Matter Permit Modeling" (July 2022), EPA Memorandum "Modeling Procedures for Demonstrating Compliance with PM2.5 NAAQS (March 2010) and the California Air Pollution Control Officers Association (CAPCOA) "Modeling Compliance of the Federal 1-Hour NO₂ NAAQS" (October 2011).



TABLE 1 AIR QUALITY CRITERIA										
NO _x PM10 PM2.5 CO SO ₂										
PSD Significant Impact Levels for Class I And Class II Areas	x	х	х	х						
Ambient Air Quality Standards	x	х	x	x	х					
Class I and Class II Visibility and Deposition	х	х	х							
Impacts to Soils and Vegetation	х	х	х	х						
Class I and Class II Area Increment	х	х	х							

The project will also be major for VOCs and will include an analysis of ozone impacts from emissions of NOx and VOCs.

Secondary PM2.5 and Ozone will also be assessed with MERPS.

Permit Applicability

The locations of the Ronler Acres and Aloha campuses are shown in Figure 1. The site plans are presented in Figures 2 and 3, respectively. The Ronler Acres and Aloha campuses are located in Washington County, Oregon. The area in which the campuses are located is designated as attainment or unclassified for all criteria pollutants except carbon monoxide (CO) and ozone, for which the area is designated as maintenance.

The current Facility is an existing source that will become a Federal Major Source as a result of the proposed changes because emissions of one or more regulated pollutants will increase above the Federal Major Source level. A major modification at a facility that will become a Federal Major Source triggers the requirements of Oregon's PSD permitting program for each pollutant for which the area is designated attainment or unclassified. OAR 340-224-0070(3)(a)(A). These requirements include the obligation to conduct an air quality analysis for each regulated pollutant for which emissions will exceed the netting basis by a Significant Emission Rate (SER) or more. Based on the proposed Plant Site Emission Limits, the Facility is required to perform a PSD air quality analysis for NO_x, PM10 and PM2.5.

The proposed modifications also trigger requirements of Oregon's Maintenance Area New Source Review (NSR) program because it is located within the Oregon portion of the Portland-Vancouver Interstate Maintenance Area for ozone and the Portland Maintenance Area for CO, and the proposal constitutes a major modification for CO and ozone precursors (VOC and NO_x). Maintenance area NSR requirements are triggered for each major modification of a maintenance pollutant. Major modifications for ozone precursors (NO_x and VOC) constitute major modifications for ozone. A major modification of a maintenance pollutant must comply with the maintenance area NSR requirements at OAR 340-224-0060, including the requirement to demonstrate that it will not cause or contribute to an exceedance of the NAAQS.. The Facility will meet its NAAQS compliance obligation in part by ensuring a net air quality benefit in compliance with OAR 340-224-0060(2) by fully offsetting its CO, NO_x and VOC emissions via an allocation of growth allowance. In addition, the Facility will model its CO emissions and evaluate ozone impacts independent of the net air quality benefit resulting from offsetting those emissions.



Oregon DEQ is requiring sources 1 to demonstrate compliance with the short-term NAAQS (specifically, 24-hr PM $_{2.5}$, 1-hr SO $_2$ and 1-hr NO $_2$) if the facility's project triggers NSR for any pollutant and the facility-wide short-term emissions are greater than the Significant Emission Threshold (SETs). Intel will be conducting a short-term NAAQS evaluation for NO $_2$ and PM $_{2.5}$ as required by the PSD & Maintenance Area NSR regulations described above. Although the project SO $_2$ emissions do not require an air quality assessment under the PSD regulations, the short-term facility wide SOs emissions will be over the SO $_2$ significant emissions threshold (SET) of three (3) pounds per hour (lbs/hr) and SO $_2$ NAAQS compliance will be evaluated.

Project Description

The manufacturing process occurs in a cleanroom environment to avoid micro contamination of the product. Semiconductors are fabricated in batches of silicon wafers and can take anywhere from one to two months to manufacture. Semiconductor manufacturing begins with a silicon wafer substrate. The semiconductor is then built up as a series of layers, with material added or removed in each step. Steps include:

- Oxidation: Involves the generation of a silicon dioxide layer on the wafer surface to provide a
 base for the photolithography process. This layer also insulates and protects the wafer during
 subsequent processing.
- Lithography: Starts with the application of a photo sensitive layer onto the wafer. Then, a photomask is placed over the wafer and light is projected onto the wafer to form patterns of exposed and unexposed photoresist (e.g., the electrical pattern). After exposure, the wafer is developed in a solution that dissolves the exposed photoresist, leaving those areas exposed for subsequent processing steps. The unexposed photo-resistant coating remains on the water, thus protecting the surface.
- Ion Implant: Doping the wafer with ions to making it conductive or insulating at selected locations.
- Etching: Wet or dry etching techniques are used to remove unwanted material on certain areas on the wafer. After etching, photoresist is removed using dry or liquid stripping compounds.
- Deposition: Applies additional layers of silicon, silicon dioxide, or other materials to the wafer
- Planar: A surface treatment process which prepares the wafer for subsequent processing steps. A mildly corrosive chemical slurry is used as a polishing compound.

During the fabrication process, many of these steps are repeated multiple times in various sequences with variations in each step. Once the manufacturing is completed, the wafers are tested and cut into individual chips. The semiconductor chips are then sorted, assembled, tested, and packaged.

Manufacturing operations occur 24 hours a day and 365 days a year. However, production output varies with consumer demand and stage of process development. Significant technology revisions occur approximately every 2 years.

There are a number of utility support systems that support fab manufacturing operations. These include:

• Natural gas-fired rotor concentrator thermal oxidizers (RCTOs) are used to control volatile organic compounds (VOC) emissions from the Fabs.

¹ See Oregon DEQ, "Short-Term NAAQS Compliance Internal Management Directive" signed September 1, 2021 and Oregon DEQ, "Recommended Procedures for Air Quality Dispersion Modeling", March 2022.



3

- Packed-Bed Wet Chemical Scrubbers for controlling acid gases used in the Fab.
- Trimix Ammonia Treatment Systems are used to treat ammonia wastewater.
- Large natural gas-fired boilers (>2.0 million BTU per hour)
- Small natural gas-fired heating units and boilers (<2.0 million BTU per hour)
- Diesel-fired emergency generators and fire pumps
- Wet cell cooling towers
- Bulk Chemical Distribution including bulk and specialty gases.

Below is a summary description of the emission points that will be used in the modeling analyses.

Rotor Concentrator Thermal Oxidizers (RCTOs)

RCTOs consist of two main components: a concentrator that uses zeolite wheels to adsorb VOCs from the Fab exhaust and a thermal oxidizer that oxidizes the VOCs into water and carbon dioxide. The RCTOs are a source of natural gas combustion byproducts, CO₂, and VOCs that are not adsorbed by the zeolite concentrator. Each RCTO stack will be included in the model as a point source.

Some of the newer RCTOs exhaust to the acid scrubbers that then pass through a wet electrostatic precipitator (WESP) for additional PM control. A WESP works by charging particles as they enter the unit and collecting them on electrodes within the WESP body.

Packed-Bed Wet Chemical Scrubbers (Scrubbers)

Each Fab has several scrubbers that treat acid or ammonia-containing Fab process exhaust. The exhaust passes through a packed bed with reagent flowing through the bed. A substantial portion of the acid or ammonia gases in the exhaust are transferred out of the air stream into the reagent stream. The treated exhaust streams are then sent out to the atmosphere via a manifold with between one and five stacks.

Boilers

The boilers supply hot water to the various buildings and manufacturing processes. All of Intel's boilers are natural gas fired. Air emissions from the boilers are those associated with natural gas combustion.

Emergency Generators and Fire Pumps

In addition to backing up all critical Life Safety Systems, emergency generators back-up systems required by code and business continuity needs at the Facility in the event of an unplanned primary power outage. The generators combust ultra-low-sulfur diesel and are routinely tested to ensure proper operation. For permitting purposes, air emissions are limited to periods when the emergency equipment is tested and maintained. Readiness testing is limited to 25 hours per year for the emergency generators and 50 hours per year for the emergency fire pumps. The permit specifies that no more than ten generators may be run in a day and the generators can only be run during daylight hours, which is defined as the hours between 8 am and 6 pm.

Ammonia Treatment System (TMXW)

The TMXW system is an ammonia wastewater treatment system that includes gas-phase ammonia abatement. Ammonia wastewater is pH adjusted and fed to an ammonia stripper. The ammonia stripper is a desorption process that removes ammonium ions out of the water to produce gas-phase ammonia. The gas-phase ammonia is exhausted to a two-stage thermal catalytic oxidation/reduction system. The first catalyst converts ammonia to NOx and CO to carbon dioxide. The second catalyst converts NOx to



nitrogen and water. Air emissions from this system include natural gas combustion byproducts and ammonia. The air emissions exit to ambient air via a stack. Each emission point will be modeled separately.

Lime Silos

Dry lime (calcium hydroxide) used in wastewater treatment operations is delivered to and stored in lime silos. There are five lime silos on site. During filling, the silos are a source of PM emissions as air is displaced by the lime being loaded. Each silo is equipped with a vent controlled by a fabric filter dust collector. For the five lime silo bin vents, PM10 and PM2.5 emissions from all five sources will be modeled as a single volume source that will be located midpoint between the existing lime silo bin vents.

Cooling Towers

The Facility has mechanically-induced (i.e., fan-driven) wet-cell cooling towers that are open to the atmosphere. The cooling towers are used to dissipate the large heat loads generated by the factory and the chilled water is used to condition the incoming air to the correct temperature required by the factory. The cooling towers are a source of particulate matter. Cooling towers will be modeled in two specific ways:

- 1. Cooling towers with a single fan will be modeled using one stack located in the fan center and the maximum design flow and actual fan diameter will be used for the stack parameters.
- 2. Multiple fans that are part of a single cooling tower assembly will be modeled using a single stack located in the center of the assembly. The maximum design flow from the cooling tower assembly will be divided by the number of fans to get the representative flow. The diameter for the representative stack will be the diameter of a single fan.

PROPOSED AIR QUALITY DISPERSION MODELS

Air Quality Models/Version: The primary EPA dispersion model proposed for use is the AERMOD modeling system (AERMOD version 22112) with the associated meteorological and receptor processing programs AERSURFACE (version 20060), AERMET (version 22112), AERMINUTE (version 15272), and AERMAP (version 18081). AERMOD will be used to quantify pollutant impacts on the surrounding environment based on the emission sources operating parameters and their locations and will be used for modeling most facility operational impacts in both simple and complex terrain. In addition, the Building Profile Input Program for PRIME (BPIP-PRIME version 04274) will be used for determining building dimensions for downwash calculations in AERMOD. These models, along with options for their use and how they are used, are discussed below. These models will be used for the following:

- Comparison of facility impacts to significant impact levels (SILs), Significant Monitoring Concentrations (SMCs), and the National Ambient Air Quality Standards (NAAQS) and
- Cumulative impacts analyses in accordance with EPA modeling requirements, if required (project impacts greater than SILs), for NAAQS and PSD Class I and Class II increments.

EXISTING METEOROLOGICAL AND AIR QUALITY DATA

Hourly observations of certain meteorological parameters are used to define the area's dispersion characteristics. This data is used in EPA approved air dispersion models for defining a project's impact on air quality. These data must meet certain criteria established by the EPA and the following discussion details the proposed data and its applicability to this project.



<u>Project Location/Topography:</u> Both the Ronler Acres and Aloha project sites are located in the Tualatin Valley which is a relatively flat river bottom area that is surrounded by terrain to the north, west and east. Very little variation in terrain exists in the valley until the area abuts the mountain ranges surrounding it on three sides.

Nearby Surface Meteorological Stations: The proposed Ronler Acres project is located in the northeastern portion of the Tualatin Valley, approximately 2.25 kilometers (km) east of the Hillsboro Airport. The Aloha site is located approximately 6.5 km southeast of the Hillsboro Airport. The Hillsboro Airport (WBAN 94261) collects ASOS (Automated Surface Observing System) surface meteorological data such as wind speed and direction, temperature, pressure, cloud heights, and sky cover. ASOS surface meteorological data are generally selected for processing for AERMOD because ASOS hourly data are routinely recorded and archived, generally meet EPA data completeness criteria, instruments are located in unobstructed areas meeting EPA siting criteria, and instrument heights and sensor sensitivities meet EPA instrument specifications. Also, short-term (1-minute) wind direction and speed data are generally available that can be processed by EPA programs to eliminate excessive calm observations and to give hourly averages consistent with EPA modeling requirements. The ASOS surface data, when processed with AERMET as described below, result in data recovery greater than 90 percent for every quarter in the five-year period in accordance with EPA requirements "Meteorological Monitoring Guidance for Regulatory Modeling Applications," (EPA-454/R-99-005). Generally, surface data parameters of wind speed, wind direction, and temperature must individually exceed 90% both by quarter and year, as well as wind speed, direction, and stability (turbulence) parameters combined, before any substitutions. These criteria are equaled for all quarterly/annual periods of the surface data selected for use, which covers the years 2016 through 2020.

Selection of Surface Meteorological Data: As noted above, the project vicinity and immediate areas of Tualatin Valley are relatively flat, an important consideration in the selection of surface meteorological data for use in assessing the projects impacts on regional air quality. Under these circumstances (large expanses of relatively flat terrain), the nearest meteorological data meeting EPA siting and instrument criteria would be expected to be the most representative of the project location. The ASOS data fulfills both criteria, being located in the immediate project vicinity and meeting EPA siting and instrument criteria. Thus, the Hillsboro Airport ASOS data are proposed as the surface meteorological data for modeling facility emissions. The close proximity of the ASOS station to the project site virtually assures that it could be considered representative, if not the equivalent of onsite data.

Both the ASOS and Ronler Acres/Aloha sites are located in the relatively flat Tualatin Valley at nearly identical distances and orientations from the relatively distant mountains which define the valley boundaries. There are no intervening terrain features between the ASOS location and project site to adversely affect the relative synoptic-scale wind patterns at either location (compared to each other). The current ASOS location from the NCDC Historical Observing Metadata Repository (HOMR) was verified and then refined to its exact location based on Google Earth photos (location is shown below).

<u>Selection of Upper Air Meteorological Data:</u> The most representative radiosonde observations nearest to the project site is the Salem Airport (McNary Field), located approximately 65 km south of the Intel project sites. Climatologically, Salem is similar to the Intel project sites. Twice daily radiosonde data were available for the proposed modeled years of 2016 through 2020.

<u>Meteorological Data Surface Characteristics:</u> AERMET requires input summaries of the surface characteristics for the area surrounding the Hillsboro ASOS monitoring site. These surface characteristics



were calculated with the EPA-program AERSURFACE program based on EPA guidance. AERSURFACE uses 2016 National Land Cover Data (NLCD) from the United States Geological Survey (USGS) to determine land use based on standardized land cover categories. AERSURFACE was executed in accordance with the EPA guidance documents "AERMOD Implementation Guide," (March 19, 2009), and "AERSURFACE User's Guide," (EPA-454/B-20-008, revised February 2020). AERSURFACE determines the midday albedo, daytime Bowen ratio, and surface roughness length representative of the surface meteorological station. The **Bowen ratio** is based on a simple unweighted geometric mean while **albedo** is based on a simple unweighted arithmetic mean for the 10x10 km square area centered on the selected location (i.e., no direction or distance dependence for either parameter). **Surface roughness length** is based on an inverse distance-weighted geometric mean for upwind distances up to the EPA-recommended one (1) km radius from the selected location. The circular surface roughness length area (1-km radius) can be divided into any number of sectors as appropriate (EPA guidance recommends that no sector be less than 30º in width).

Twelve 30° sectors were processed to calculate the roughness lengths due to the homogeneity of the area within the EPA-recommended radius of one (1) km. Months were assigned to seasons as follows:

- Late autumn after frost and harvest, or winter with no snow: December, January, February
- Transitional spring (partial green coverage, short annuals): March-June
- Midsummer with lush vegetation: July-August
- Autumn with unharvested cropland: September-November

Temporal variations of monthly precipitation must be considered to calculate the albedo for AERMET processing in accordance with EPA recommendations. Precipitation data should be measured at the nearest representative location to the surface data with the most complete precipitation record, particularly for the years of meteorology being modeled. Historical precipitation data are measured in the Hillsboro area (at Hillsboro Airport) and the monthly periods between 1991 to 2020 were used as input AERSURFACE and are presented in Table 2.

<u>Site Urban/Rural Classification:</u> Land use surrounding the Intel sites must be determined in order to assess if rural or urban dispersion characteristics should be used. Following Auer (1977) and as summarized in the EPA's "Guideline on Air Quality Models", if the land use within an area circumscribed by a three (3) km radius around each facility is industrial, commercial, or developed residential, then these areas are designated as urban. All other types of land use are considered rural.



						Tak	ole 2							
		н	lillsbord	Airpo	rt 30-ve			n Clima	tology	Summa	irv			
Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANN	SMC
1991	3.01	3.84	3.67	4.88	2.34	1.7	0.25	0.65	0.39	1.66	5.66	4.76	32.81	
1992	4.65	3.7	1.17	4.06	0.13	0.36	0.77	0.31	1.21	2.47	4.54	6.44	29.81	
1993	4.27	0.87	3.77	5.03	3.52	2.68	1.49	0.16	0	1.08	1.26	7.54	31.67	
1994	4.42	5.06	2.85	1.18	1.15	0.94	0	0.42	0.6	6.48	6.32	6	35.42	
1995	8.63	3.47	5.37	3.96	1.35	1.8	0.98	0.39	1.57	2.91	8.32	7.82	46.57	
1996	7.56	10.23	2.93	4.63	4.34	0.97	0.58	0.13	2.96	4.22	9.21	14.83	62.59	
1997	7.67	2.03	6.33	2.18	2.01	2.07	0.73	1.59	3.15	5.45	5.91	3.34	42.46	
1998	8.36	6.64	4.07	1.3	4.77	1.41	0.32	0	0.87	6.4	9.03	7.07	50.24	
1999	7.48	9.78	4.29	1.5	1.74	1.55	0.66	0.84	0.14	2.49	6.91	3.91	41.29	
2000	6.92	4.35	3.02	1.36	1.91	1.04	0.08	0.75	1.27	3	2.16	3.24	29.1	
2001	1.94	1.58	2.33	1.86	0.85	1.2	0.45	0.79	0.79	3.13	8.54	6.98	30.44	
2002	7.31	3.13	3.49	1.71	1.44	1.3	0.32	0.05	0.83	0.43	2.61	9.88	32.5	
2003	8.29	2.93	5.16	5.91	0.75	0.15	0	0.55	0.94	3.07	4.43	7.93	40.11	
2004	5.9	4.27	1.68	1.79	1.24	0.82	0	2.31	1.37	3.55	2.61	3.72	29.26	
2005	2.27	0.68	4.42	2.56	4.35	1.55	0.24	0.32	1.36	3.68	6.09	9.09	36.61	
2006	11.9	1.99	3.57	2.02	2.7	1.08	0.14	0.08	0.59	0.9	12.88	7.49	45.34	
2007	3.24	3.8	2.39	1.96	1.29	0.97	0.4	0.53	1.73	3.12	3.9	8.94	32.27	
2008	5.38	1.49	3.31	1.94	0.97	0.36	0.09	1.37	0.22	1.69	4.51	7.57	28.9	
2009	4.36	1.08	2.4	1.24	2.92	1.34	0.13	0.72	1.51	3.32	5.72	3.96	28.7	
2010	5.14	4.06	3.76	3.22	3.16	3.52	0.45	0.17	2.21	3.98	5.23	8.16	43.06	
2011	3.59	3.83	5.39	3.42	4.68	0.59	1.23	0	0.26	1.88	5.38	2.33	32.58	
2012	5.79	2.48	6.59	2.38	2.34	2.42	0.09	0.02	0.04	5.45	7.59	7.5	42.69	
2013	1.47	1.87	1.81	2.33	3.98	1.31	0	0.85	6.27	0.87	2.73	1.08	24.57	
2014	2.41	5.06	6.07	3.42	1.7	0.92	0.52	0.14	1.1	6.12	2.83	5.88	36.17	
2015	3.01	4.57	4.68	1.41	0.44	0.54	0.32	0.55	0.86	3.42	4	14.6	38.4	
2016	7.53	3.96	5.31	1.88	0.8	1.33	0.33	0.25	0.93	8.66	6.25	4.77	42.0	Wet
2017	4.11	10.06	6.96	3.56	1.82	1.05	0	0.13	1.39	4.04	7.38	2.92	43.42	Wet
2018	5.17	2.15	2.79	3.32	0.11	0.65	0	0	0.79	3.33	2.61	4.74	25.66	Dry
2019	3.12	4.96	1.36	3.23	1.45	0.64	0.49	0.21	3.08	1.51	1.16	5.22	26.43	Dry
2020	7.18	1.49	2.12	0.88	1.86	2.04	0.07	0.25	1.28	1.38	5.34	5.27	29.16	Dry

Sorted Data - The 30-years of climatology were SORTED to determine DRY/AVG/WET months. Generally, the driest and wettest years were used to delineate DRY/WET (AVG was anything in-between). Years which had precipitation less than the 30th percentile were designated dry, years which had precipitation greater than the 70th percentile were designated wet and all other years were designated as average.

The most objective approach is to use the 2016 land cover classification data (the same data set as used in AERSURFACE) and designate the "Developed Intensity" areas (IDs 22, 23 & 24) as urban based on Auer's classification. These classes are:

- Developed, Low Intensity (NLDC Code 22) areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20 to 49 percent of total cover. These areas most commonly include single-family housing units.
- Developed, Medium Intensity (NLCD Code 23) This classification includes areas with a mixture
 of constructed materials and vegetation. Impervious surfaces account for 50 to 79 percent of the
 total cover.
- Developed, High Intensity (NLCD Code 24) This classification includes highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row



houses and commercial/industrial. Impervious surfaces account for 80 to 100 percent of the total cover.

Table 3 and Figure 4 shows the land use determination for the Aloha and Ronler sites. Both sites are over 70 percent urban. Because the area within 3 km is more than 50 percent classified as urban land use, the URBAN option will be used for AERMOD modeling of the Facility and the urban population of the modeling domain should be used within the model as well. Typically, the population value should be equal to the population of the counties contained within the modeling domain. The modeling domain includes receptors in Washington, Clackamas, Yamhill, and Multnomah counties. Since the grid does not cover the complete area of each of these counties, only the populations of Washington, Clackamas, and Multnomah counties were considered. Using the latest U.S. Census Bureau estimates of population (2020), the total population for these three counties is 1.8 million; this population will be input to AERMOD for use in the urban modeling of the Facility.

Table 3 Land Use Summaries									
ID	Description	Class	es Ronler	Percent	Aloha	Percent			
11	Open Water:	Rural	16	0.1%	3	0.0%			
21	Developed, Open Space:	Rural	2892	9.2%	1895	6.0%			
22	Developed, Low Intensity:	Urban	6287	20.0%	8781	27.9%			
23	Developed, Medium Intensity:	Urban	9523	30.3%	12530	39.9%			
24	Developed, High Intensity:	Urban	6855	21.8%	2673	8.5%			
31	Barren Land (Rock/Sand/Clay):	Rural	21	0.1%	0	0.0%			
41	Deciduous Forest:	Rural	0	0.0%	73	0.2%			
42	Evergreen Forest:	Rural	86	0.3%	500	1.6%			
43	Mixed Forest:	Rural	35	0.1%	56	0.2%			
52	Shrub/Scrub:	Rural	14	0.0%	4	0.0%			
71	Grasslands/Herbaceous:	Rural	105	0.3%	95	0.3%			
81	Pasture/Hay:	Rural	1825	5.8%	1801	5.7%			
82	Cultivated Crops:	Rural	3203	10.2%	2207	7.0%			
90	Woody Wetlands:	Rural	339	1.1%	518	1.6%			
95	Emergent Herbaceous Wetland:	Rural	222	0.7%	282	0.9%			
	Total:		31423		31418				
	Percent Urban			72%		76%			
	Percent Rural			28%		24%			

Meteorological Data Representativeness: The proposed use of the five (5) years of Hillsboro Airport ASOS surface meteorological data would satisfy the need for site-specific data. EPA defines the term "site-specific data" to mean data that would be representative of atmospheric dispersion conditions at the source and at locations where the source may have a significant impact on air quality. Specifically, the meteorological data requirement originates from the Clean Air Act in Section 165(e)(1), which requires an analysis "of the ambient air quality at the facility and in areas which may be affected by emissions from such facility for each pollutant subject to regulation under [the Act] which will be emitted from such facility." This requirement and EPA's guidance on the use of site-specific data are also discussed in Section 8.4.4 of Appendix W to 40 CFR Part 51. The representativeness of meteorological data is dependent upon a determination that the data are free from inappropriate local or microscale influences.: (a) the proximity



of the meteorological monitoring site to the area under consideration; (b) the complexity of the topography of the area; (c) the exposure of the meteorological sensors; and (d) the period of time during which the data are collected.

The Hillsboro Airport ASOS surface meteorological monitoring station qualifies as site-specific data for several reasons. First, the Hillsboro Airport meteorological monitoring site is the closest ASOS site and located in very close proximity to the Intel locations, with nearly identical elevations above mean sea level (amsl). Second, both locations are located in the same area of the broad and relatively flat Tualatin Valley. Third, the ASOS monitoring location at the airport was selected to be far enough from wind flow perturbations caused by buildings and other features. Fourth, the period of meteorological data selected at the time of the modeling analyses (2016-2020) would be expected to be the most representative of current conditions, with the same general land uses surrounding the current ASOS location and airport as well as the proposed project site. A review of current Google Earth photo-aerials shows that nearby land uses now at both locations are similar to the land uses reflected in the 2016 and 2020 NLCD sets. Additionally, these data meet the EPA data recovery requirements for air quality modeling as described earlier.

Representativeness is defined in the document "Workshop on the Representativeness of Meteorological Observations" (Nappo et. al., 1982) as "the extent to which a set of measurements taken in a space-time domain reflects the actual conditions in the same or different space-time domain taken on a scale appropriate for a specific application." Judgments of representativeness should be made only when sites are climatologically similar, as is the case with the meteorological monitoring site and the proposed project location. In determining the representativeness of the meteorological data set for use in the dispersion models at the project site, the consideration of the correlation of terrain features to prevailing meteorological conditions, as discussed earlier, would be nearly identical to both locations since the orientation and aspect of terrain at the proposed project location correlates well with the prevailing wind fields as measured by and contained in the meteorological dataset. In other words, the same mesoscale and localized geographic and topographic features that influence wind flow patterns at the meteorological monitoring site also influence the wind flow patterns at the proposed project site.

For these reasons, the Hillsboro Airport meteorological data selected for use in modeling emissions from the proposed project are expected to satisfy the definition of representative, and therefore site-specific, meteorological data and are similar to the dispersion conditions at the project site and to the regional area. An annual wind rose for the five-year modeling period is shown in Figure 5.

Existing Baseline Air Quality Data: The nearest air quality monitoring sites to the proposed project are listed in Table 4 which also lists the monitored pollutants and distances to the project.

In addition to the monitoring site data, the ODEQ allows for the use of the *Northwest International Air Quality Environmental Science and Technology Consortium (NW-AIRQUEST)* data for the 2014-2017 period which is considered design data for the 2023 period and can be considered representative of the impact areas. These data sets are summarized in Table 5.



Table 4 Ambient Monitoring Site Information				
Monitors	Distance from Ronler Acres (km)	Distance from Aloha (km)	Pollutants Monitored	Monitoring Objective
SE Lafayette (SEL) 5824 SE Lafayette St. (EPA# 41-051-0080)	25	22	CO, NO ₂ , Ozone, PM ₁₀ , PM _{2.5} , SO ₂	Population/NAAQS
Tualatin at I-5 (TBC) (EPA# 41-067-0005)	21	15	CO, NO ₂ , Ozone, PM _{2.5}	Source/NAAQS
Hare Field (HHF) Grant Street (EPA# 41-067-0004)	5	8	PM _{2.5}	Population/NAAQS

				Table 5						
			Backgroun	d Monito	ring Data					
Pollutant	Units	Avg Time	Stations	2018	2019	2020	2021	2022	NW AIRQUEST Design Value	
		0.4.1at	Hare Field	28	36	28	24	47		
		24 Hr 1 st	Tualatin	19	32	28	20	66	NA	
	_	High -	S. Lafayette	20	30	31	23	75		
		24 Hz 00th	Hare Field	18	24	18	15	29		
PM2.5	ug/m³	24 Hr 98 th	Tualatin	17	21	18	18	28	19.6	
		percentile -	S. Lafayette	17	20	23	16	27	•	
			Hare Field	6.1	6.7	6.1	5.8	7.9		
		Annual -	Tualatin	7.1	6.8	6.8	6.7	8.5	6.3	
		Mean	S. Lafayette	6.8	6.5	7.1	6.4	7.9	-	
		24 Hr 1 st High	S. Lafayette	54	33	35	31	83	55	
PM10 ug/m ³	ua/m³	24 Hr 2 nd High	S. Lafayette	27	29	35	29	39		
	ug/III	24 Hr 1 st High	Hare Field	ND	35	ND	ND	ND		
	24 Hr 2 nd High	Hare Field	ND	32	ND	ND	ND			
			Tualatin	1145	1145	1145	1145	1260	1200	
	ug/m³	ug/m³ —	8 Hr 1 st High	S. Lafayette	1832	1832	1718	1947	1947	1306
СО				Tualatin	1603	1489	**	1603	2061	
		1 Hr 1 st High	S. Lafayette	2405	2176	**	2978	2405	1744	
		A II Activit	Tualatin	83	77	79	71	64		
		1 Hr 1 st High	S. Lafayette	88	81	66	68	68	NA NA	
NO		1 Hr 98 th	Tualatin	72	62	56	56	58	CE 7	
NO ₂	ug/m³	percentile	S. Lafayette	66	60	55	58	56	65.7	
		Annual	Tualatin	23	21	19	17	19	442	
		Mean	S. Lafayette	17	15	12	12	13	14.2	
		1 Hr 1 st High	S. Lafayette	9	8	8	8	8	NA	
		24 Hr 1 st High	S. Lafayette	3	3	4	5	5	6.0	
SO ₂	ug/m³	1 Hr 99 th	S. Lafayette	8	8	5	8	8	12.6	
		Annual Mean	S. Lafayette	1.2	0.6	0.6	1.3	1.5	1.20	

Notes: Data for 2021-2022 was derived from EPA AIRS Monitored Values Reports. NA = not applicable ND = no data ODEQ data for 2018-2020 was also supplemented by EPA AIRS data as necessary.

** ODEQ fire data not removed by EPA.



Federal regulations, specifically 40 CFR Part 58 Appendix D, require that a State and Local Air Monitoring (SLAMS) network be designed to meet a minimum of three basic monitoring objectives: Provide air pollution data to the public in a timely manner, support compliance with the National Ambient Air Quality Standards (NAAQS), and support air pollution research. A variety of site types are needed to support these basic objectives, including six (6) general types listed below:

- 1. Sites are located to determine the highest concentrations expected to occur in the area covered by the network.
- 2. Sites are located to measure typical concentrations in areas of high population density.
- 3. Sites are located to determine the impact of significant sources or source categories on air quality.
- 4. Sites are located to determine general background concentration levels.
- 5. Sites are located to determine the extent of regional pollutant transport among populated areas.
- 6. Sites are located to measure air pollution impacts on visibility, vegetation damage, or other welfare-based impacts.

The physical sitting of an air monitoring station must conform to 40 CFR Part 58 and its location must achieve a spatial scale of representativeness that is consistent with the monitoring objective and site type. The spatial scale results from the physical location of the site with respect to the pollutant sources and categories. It estimates the size of the area surrounding the monitoring site that experiences uniform pollutant concentrations. The categories of spatial scale are:

- 1. Microscale-Defines the concentrations in air volumes associated with area dimensions ranging from several meters up to about 100 meters.
- 2. Middle scale-Defines the concentration typical of areas up to several city blocks in size with dimensions ranging from about 100 meters to 0.5 kilometer.
- 3. Neighborhood scale—Defines concentrations within some extended area of the city that has relatively uniform land use with dimensions in the 0.5 to 4.0 kilometers range.
- 4. Urban scale-Defines concentrations within an area of city-like dimensions, on the order of 4 to 50 kilometers.
- 5. Regional scale-Defines usually a rural area of reasonably homogeneous geography without large sources and extends from tens to hundreds of kilometers.
- 6. National and global scales-These measurement scales represent concentrations characterizing the nation and the globe as a whole.

The selection of these monitoring sites is also based on the monitoring stations' objective, which is NAAQS and population exposure for measuring background air quality. These monitoring objectives can be used to support the demonstration of compliance with the NAAQS when coupled with dispersion modeling.

Along with the monitoring objective is the spatial scale of the monitoring site which is used to represent high concentration locations, population and background exposure. The spatial scale of the SE Lafayette monitoring station is summarized below by pollutant:

- NO₂ Urban which represents highest concentration, population exposure and general background.
- Ozone Urban which represents highest concentration, population exposure and general background.
- CO Micro scale which represents highest concentration.
- SO₂ Urban which represents highest concentration, population exposure and general background.



- PM10 Neighborhood which represents highest concentration, population exposure and general background.
- PM2.5 Neighborhood which represents highest concentration, population exposure and general background.

The spatial scale for Hare Field is:

 PM2.5 – Neighborhood scale which is used for highest concentration, population exposure and general background.

The spatial scale for the Tualatin monitoring station is microscale whose primary purpose is to monitor freeway-based concentration data for NO₂, CO, Ozone, and PM2.5. While microscale is useful for determining highest concentration data, the immediate proximity to Interstate Route 5 (I-5) make this monitoring data better suited to identifying temporal (freeway-based impacts) to air quality based on time of day rather than measuring a true background data set that is not influenced by any one source or source type. As such, the further use of this data set was not considered.

As referenced above, there is also gridded background air quality data based on the NW AIRQUEST data set that covers the project area. This data set (2014-2017) can also be used as representative background if demonstrated to be appropriate and applicable to a particular project area. And while the use of the NW AIRQUEST data can be considered conservative for some pollutants and averaging periods, as noted below, this data set does not track the current background air quality trends over the last five (5) years as discussed below.

Based on the goals and objectives of the specific monitors listed in Table 4, the selection of the SE Lafayette and Hare Field monitoring sites were chosen to represent background for use in the dispersion modeling analyses.

In order to select the applicable background monitored data set to use in the modeling analyses, a trend analysis of the background air quality data based on the last five (5) years is summarized below which is based on the data in Table 5. Background trends for CO and SO₂ are not summarized below as the project impacts are expected to be less than the applicable significant impact levels (SILs). Additionally, the SE Lafayette monitoring station represents the highest (design value) concentration for CO and the NW AIRQUEST represents the highest design value for SO₂. These locations will be used to represent background as needed for the project modeling analyses.

The overall trend in background NO_2 for the last five (5) years (2018-2022) at the SE Lafayette monitoring station has been downward for both 1 hour (98th percentile) and annual averages. A similar trend is noted at the Tualatin monitoring site. Note the NW AIRQUEST data is consistent with the 2018 monitoring data and does not reflect the decrease in background over time.

This trend for PM2.5 is not duplicated as the background concentrations at SE Lafayette, Tualatin and Hare Field have shown a small increase in background monitored concentrations since 2018. While the PM2.5 trend decreased during the 2021 time period, overall, the trend has been upward. As noted with the NO_2 trends, the NW AIRQUEST data best represents the year 2018 and does not reflect the increase in background over time.

PM10 trends at the SE Lafayette site show similar increases between the years 2018 and 2022.



<u>Summary of Selected Data:</u> Based on the monitoring objectives (NAAQS), the spatial scales (Urban and Neighborhood) of the Hare Field and SE Lafayette monitoring stations and the last five (5) years of background trends, these sites were selected as being the most representative for determining the background concentrations to be used in the modeling analyses in place of the NW AIRQUEST design values. For NO₂, Ozone and PM10 background data, SE Lafayette is proposed with PM2.5 background based on Hare Field, which is also the closest PM2.5 monitoring station to the project site. For background CO and SO₂, the SE Lafayette is proposed for use in the modeling analyses.

The proposed background concentrations will be the highest values over the last three (3) year period for 1-and 8-hour CO, 24-hour PM10, annual NO_2 and 1, 24-hour and annual SO_2 . 24-hour and annual PM2.5 background concentrations will be based on the 3-year average in accordance with "Guidance for PM2.5 Permit Modeling" (05/25/14). Table 6 presents the proposed background concentration data for use in the dispersion modeling assessments.

For 1-hour NO_2 , seasonal hourly background NO_2 for the 2019-2021 data period will be used, in accordance with the procedures found in "Guidance Concerning the Implementation of the 1-hour NO_2 NAAQS for the PSD Program" (6/29/10) and "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 NAAQS" (3/01/11). Complete hourly data from the 2022 data period is not yet available for use so the seasonal hourly background NO2 for modeling will be the 2019-2021 data period. In accordance with EPA procedures, the third highest value for each hour and season will be used to calculate the three-year average of each time period.

Seasonal Hour-Of-Day is determined by organizing all of the NO₂ concentrations by hour of day (1AM, 2AM, 3AM, etc.) for each season of the year in descending order and selecting the 3rd highest NO₂ concentrations for each hour of the day and season.

For example, (1AM)

- 1. First take all the 1AM values (maximum of 90-92 numbers) for each Season
 - a. Winter = December of Previous Year, January, February
 - b. Spring = March, April, May
 - C. Summer = June, July, August
 - d. Autumn = September, October, November
- 2. Organizing the NO₂ concentrations in descending order (highest to lowest)
- 3. Take the 3rd highest NO₂ concentrations.
- 4. This value will be used to represent the 1AM 3rd highest or 98th- percentile of available data.
- 5. The above process is repeated for each hour of the day and season.
- 6. Repeat steps 1 thru 5 for each of the three years under review.
- 7. Average the three 1AM NO₂ concentrations.
- 8. This value will be used in AERMOD as the NO₂ background concentrations (3yr average of the 98th percentile) for the 1AM hour and season.
- 9. Repeat step 7 and 8 for each of the hours in the day and season.



Table 6 Background Air Quality Data Summary			
Pollutant and Averaging Time	Background Value (μg/m³)		
PM10 – 24-hour 3-year 2 nd High NAAQS	39.0		
PM2.5 ₅ − 3-Year Average of Annual 24-hour 98 th Percentiles NAAQS	20.7		
PM2.5 ₅ – 3-Year Average of Annual Values NAAQS	6.6		
CO – 1-hour High NAAQS	2,978		
CO – 8-hour High NAAQS	1,947		
NO ₂ –3-Year Average of Annual 98 th Percentile 1-hour Daily Maximum NAAQS	56.3*		
NO ₂ – Annual Maximum NAAQS	18.3		
SO ₂ – 3-Year Average of Annual 99 th Percentile 1-hour Daily Maxima NAAQS	7.0		
SO ₂ – 24-hour Maximum CAAQS 24-hour High, 2 nd High NAAQS	4.7		
SO ₂ – Annual Maximum NAAQS	1.1		

Conversion of ppm/ppb measurements to µg/m³ concentrations based on:

 $\mu g/m^3 = ppm \ x \ 40.9 \ x \ MW$, where MW = 48, 28, 46, and 64 for ozone, CO, NO₂, and SO₂, respectively.

AIR QUALITY MODELING PROCEDURES

Several dispersion models are proposed for use to quantify pollutant impacts on the surrounding environment based on the emission sources and operating parameters. AERMOD will be used to determine facility impacts on Class II areas in the immediate project vicinity in simple, intermediate, and complex terrain areas during project operations. AERMOD will be the primary model used for comparison of project impacts to SILs and demonstration of compliance with AAQS. Modeling of operational impacts are described below.

For modeling the project's operational concentrations due to emissions from the proposed sources on nearby simple and complex terrain, the AERMOD model will be used with the entire hourly meteorological data (described above).

AERMOD Model, Options, and Procedures: AERMOD is a steady-state plume dispersion model that simulates transport and dispersion from multiple point, area, or volume sources based on updated characterizations of the atmospheric boundary layer. AERMOD uses Gaussian distributions in the vertical and horizontal for stable conditions, and in the horizontal for convective conditions; the vertical distribution for convective conditions is based on a bi-Gaussian probability density function of the vertical velocity. For elevated terrain AERMOD incorporates the concept of the critical dividing streamline height, in which flow below this height remains horizontal, and flow above this height tends to rise up and over



terrain. AERMOD also uses the advanced PRIME algorithm to account for building wake effects. AERMOD input data options are listed below following these EPA modeling guidance documents.

- Final plume rise
- Stack tip downwash
- Regulatory default option (i.e., calm and missing meteorological data processing and elevated terrain heights option)

Flagpole receptors are not proposed to be used (ground level concentrations will be calculated). AERMAP will be used to calculate receptor elevations and hill height scales for all receptors from NED data in accordance with EPA guidance. Selection of the receptor grids is discussed below.

<u>NO₂ Modeling Procedures</u>: NO₂ impacts will first be assessed using a conservative Tier 2 analysis using the Ambient Ratio Method Version 2 (ARM2), adopted in the *Guidance Concerning the Implementation of the 1-hour NO₂ NAAQS for the PSD Program"* (6/29/10). The Guideline allows a nationwide default conversion rate of 75% for annual NO₂/NO_x ratios and 80% for 1-hour NO₂/NO_x ratios for the current Tier 2 Method. A Tier 2 analysis is expected to be sufficient for modeling annual NO₂ impacts for the steady state sources to demonstrate compliance with the NAAQS.

A Tier 3 analysis is proposed to assess the 1-hour NO_2 concentrations from the intermittent sources (emergency generators) for comparison with the 1-hour NAAQS. For the Tier 3 analysis, the plume volume molar ratio method (PVRMR) is proposed. This analysis will use ambient ozone measured at the SE Lafayette monitoring site. As the source of the background air quality data to be used in the modeling analysis, SE Lafayette has been shown above to be representative of the project site. As proposed, the Tier 3 analysis will be used along with the temporal pairing of modeled NO_x concentrations with concurrent hourly background ozone data from the SE Lafayette monitoring site to determine NO_2 concentrations based on PVMRM. The ozone data will be based on the same years as the AERMOD meteorology data. NO_2/NO_x ratios will be based on equipment specific data contained in the EPA ISR database. A NO_2/NO_x ratio of 0.10 is proposed for use on the emergency generators.

The fire pumps and emergency generators operate intermittently, for a limited number of hours in the year for maintenance and readiness testing. Intel's current air permit specifies that no more than ten (10) generators may be run in a day and the generators can only be run during daylight hours, which is defined as hours between 8 am and 6 pm. To evaluate compliance with long-term air quality standards, these sources will be modeled using annualized emissions (hourly emission rate times the number of hours run per year divided by 3,650) for all hours of the day.

The emergency generators typically run up to 25 hours per year, with 50 hours for the emergency fire pumps. As explained in EPA's March 1, 2011, memorandum, "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour National Ambient Air Quality Standard" it is unlikely that emissions from the intermittently operated emergency generators will coincide with the worst-case meteorological conditions and modeled 1-hr NO_2 impacts can be significantly overestimated. As such, EPA also suggests in their March 1, 2011, memo that these types of intermittent sources can be excluded from compliance demonstrations for the 1-hour NO_2 standard. Nonetheless, Intel is proposing to include emergency generator emissions in the 1-hour NO_2 standard compliance demonstration using the methodology described below.

² EPA Memorandum, "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO₂, National Ambient Air Quality Standard", March 1, 2011.



3

Since the generators only run intermittently, they pose a challenge to accurately reflect potential ambient air quality impacts. One approach suggested by EPA³ is to model impacts from intermittent sources based on an annualized hourly emission rate, rather than the maximum hourly emissions. This approach would account for potential worst-case meteorological conditions combined with essentially continuous operation of the emergency generators at an average hourly emission rate. This approach will be used for the SIL evaluations but for the 1-hour NO₂ NAAQS, a Monte Carlo method, as discussed below, will be used. This method accounts for the statistical variation in intermittent operation occurrences.

Additional Modeling Procedures: For the other pollutants and averaging times, AERMOD will be used to determine the worst-case group of engines from the source groups used in the Monte Carlos analysis as identified in Table 7. For the 24-hour PM2.5 and PM10 standards, each one (1) hour of testing emissions will be prorated over 10 hours, which represents the 10-hour operating day, in order to calculate the 24-hour impacts. The worst-case daily operation of the groups of the emergency generators will be identified in AERMOD by assuming that each major group of engines in Table 7 are operated for the 10-hour day. From this, the applicable engine group will be added to the non-intermittent sources at the site to determine increment and/or NAAQS. This will also be done for 1 and 8-hour CO and 1 and 24-hour SO₂.

For short-term SO_2 , the worst-case groups will be modeled with the sum of the hourly emission rate (10x) for 10 hours per day using the maximum hourly emission rate for the group. This will provide a very conservative estimate as all groups will be run every day with all generators running at the same time, rather than on separate days.

AERMOD will be run on the Intel facility for NO_x, PM10, PM2.5, SO₂, and CO emissions and the results compared to the appropriate SIL. If the project impacts are less than the SIL, then the evaluation of that pollutant is considered complete. If the impacts exceed the SILs, then a full cumulative and applicable increment impact analyses will be conducted as described below. Preliminary results indicate that the project CO emissions will be less than the SILs while the other pollutant impacts will be over the SILs.

Monte Carlo Simulation: For 1-hr NO_2 , a Monte Carlo Simulation was used to estimate the NO_2 impacts from running intermittently operated emergency generators. In permitting, typically AERMOD design values (e.g. 98 percentile) are added to background design values. In the case of generators which run infrequently (~1% of the time), the impacts of the generators are statistically likely not to occur on the high background hours. Thus, modeling the generators as continuous sources greatly overestimates the occurrences of exceedances as the high modeled impacts are added to the high background under all conditions. A Monte Carlo simulation is used to model the probability of different outcomes in a process that cannot easily be predicted due to the intervention of random variables. For example, the specific hour/day that a set of generators will run is generally unknown. The operation of the generators may or may not correspond to a poor dispersion period, as the occurrence of these events is essentially random. This Monte Carlo approach accounts for the random nature of both the generator operation and the underlaying meteorological conditions.

A Monte Carlo Simulation involves the following steps. First, hourly NO_2 background as assembled for each day in a five (5) year period and grouped by month. Next, the model is run (without background) with 15 separate source groups of generators, identified in Table 7.

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³ ibid

The operating scenario is that no more than seven (7) generators will be run in one (1) hour (8 engines in source group 8, 6 engines in source groups 4 through 6 and source group 9) and that all 17 source groups will be run over 15 days per month, with each engine limited to 25 hours per year for testing and maintenance. The generators groups are shown in Table 7.

Table 7						
	Monte Carlo Generator Groups					
Group ID	Count	Generator IDs				
1	7	EGE1_01-07				
2	7	EGE1_08-14				
3	7	EGE1_15-21				
4	6	EGC5_01-06				
5	6	EGC5_07-12				
6	6	EGC5_13-18				
7	3	EGC5_19-21				
8	7	EGDD_01-07				
9	6	EGDA_01-06				
10	2	EGDA_07-08				
11	4	EGR1_01-04				
12	5	EGDC_01-05				
13	3	EGRB1_01, EGRP1_01-02				
14	3	EGR4_01, EGRS6_01-02				
15	3	EGDB_01-03				
16	4	EGIW_01-03, EGR8_01				
17	7	EGN2_01, EGF15_01-03, EGF5-01-02				
Total Engines	86					

The generators are only modeled for the 10-hour period as noted above. The AERMOD output is hourly NO_2 concentrations for the continuous sources and the 17 generator groups. The data are assembled by day for five (5) years and organized by month (operational up to 152 days per year). Thus, a modeled day includes 15 generator groups run for each day. Once the data is assembled, the Monte Carlo simulation is run using the following iteration process which is also summarized in Figure 6.

For each iteration:

For each month,

- Randomly select model days for each day of the month from the 5-year block for that month
- Assume days one (1) through 15 correspond to generator days (e.g. day 1 = group 1, day 2 = group 2, etc.) and randomly select hour between 8:00 AM and 6:00 PM in which the generators will run.
- On hourly basis, find the total concentration (C(h)) by taking the model values CM(h) for EG(h) for the generators. Specifically:

```
C(h) = CM(h) for h <> hour picked for generators
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C(h) = CM(h) + EG(h) for h = hour picked for generators



Note that the generators are run on the same day as the continuous sources for consistency.

• Find highest C(h) for that day and save (also record month and day)

Repeat above steps for each month for 3 years:

- For each year, rank maximum daily concentrations from highest to lowest.
- Find and average the high eighth high (H8H) values and save.

Repeat above steps one thousand (1,000) more times then take median of all runs to get design value for comparison against the 1-hour NO_2 standard. The results will also be summed across all years of meteorology and receptors in order to add these results to the steady state source impacts at the same receptor(s). Background will be added to the steady state source impact prior to the summation of the results with emergency generators for comparison with the 98^{th} percentile 1-hour NO_2 NAAQS. While the results will be paired in space, they will not be able to be paired in time as the steady state source analyses do not use the Monte Carlo method for determining the 98^{th} percentile impacts. However, the results, paired in space only, will be larger than if paired in both space and time.

<u>GEP Stack Height and Downwash</u>: Stack locations and heights and building locations and dimensions will be input to BPIP-PRIME. The first part of BPIP-PRIME determines and reports on whether a stack is being subjected to wake effects from a structure or structures. The second part calculates direction-dependent "equivalent building dimensions" if a stack is being influenced by structure wake effects. The BPIP-PRIME output is formatted for use in AERMOD input files.

Receptor Selection: Receptor and source base elevations will be determined from United States Geological Survey (USGS) National Elevation Dataset (NED) data. The NED data will be processed with the EPA-model AERMAP for the receptor locations selected. All coordinates (both sources and receptors) will be referenced to UTM North American Datum 1983 (NAD83, Zone 11). AERMAP is capable of interpolating the elevation data in the NED data for both receptor elevations and hill height scales.

The NED data are available in 1/3-arcsecond (about 10 meter) and 1-arcsecond (about 30 meter) grid node spacing. Areas that contain receptor grids with 100 meter spacing or less between adjacent receptors will use 10 meter NED data. Other areas that contain only receptor grids of greater than 100 meter spacing may utilize 30 meter NED data. For purposes of determining hill height scales, the NED datasets used will extend 5-km past the outside of the coarse receptor grid described below for 30-meter NED data and 2-km past the outside of the intermediate/downwash receptor grids described below for 10-meter NED data.

Cartesian coordinate receptor grids will be used to provide adequate spatial coverage surrounding the project area for assessing ground-level pollution concentrations, to identify the extent of significant impacts, and to identify maximum impact locations. For the full impact analyses, a nested grid will be developed to fully represent the initial location and extent of significance area(s) and maximum impact area(s). The nested grid will be comprised of the following:

- Receptors will be placed along the proposed project fenceline with a spacing of about 25 meters or less between adjacent receptors.
- The downwash receptor grid with a receptor spacing of 25 meters will extend from the project fence line out to 300 meters from the project.
- An intermediate receptor grid with 50-meter receptor spacing will extend from the downwash receptor grid out to 1000 meters from the project fenceline.



- The second intermediate receptor grid with 100-meter receptor spacing will extend from the first intermediate receptor grid outwards to two (2) kilometers (km) from the project fenceline in all directions.
- A coarse grid with 200-meter receptor spacing will extend out five (5) km from the project in all directions.
- A second course grid with 500 meters spacing will extend outwards ten (10) km from the project fenceline in all directions.
- Extended grids with 1,000 meters spacing will be used to close off the applicable modeled SIL's as needed.
- When maximum impacts occur in areas outside the 25-meter spaced receptor grid, additional refined receptor grids with 25-meter resolution will be placed around the maximum impacts and extended as necessary to determine maximum impacts.

Ambient concentrations within the facility fenceline will not be calculated.

Figure 7 presents the receptor grids based on the discussion above.

<u>Ambient Air Quality Impact Analyses</u>: In evaluating the impacts of the proposed project on ambient air quality, the ambient impacts of the project will be added to background concentrations and compared to the state and national ambient standards for SO₂, NO₂, PM₁₀, PM_{2.5}, and CO. The project impacts will also be compared to the EPA modeling significance impact levels (SILs). The NAAQS and EPA SILs are shown in Table 9.

Table 9 SILS and NAAQS					
Pollutant and Averaging Time	EPA SILs	National AAQS			
PM10 – 24-Hour	5 μg/m³	150 μg/m³			
PM2.5 – 24-Hour	1.2 μg/m³	35 μg/m³ Average of Ann.98 th %s			
PM2.5 – Annual	0.3 μg/m³	12.0 μg/m³ Average of Annual Impacts			
NO ₂ – 1-Hour	7.5 μg/m³	188 μg/m³ Average of Ann.98 th %s			
NO ₂ – Annual	1 μg/m³	100 μg/m³			
CO – 1-Hour	2000 μg/m³	40,000 μg/m³			
CO – 8-Hour	500 μg/m³	10,000 μg/m³			
SO ₂ – 1-Hour	7.8 μg/m³	196 μg/m³ Average of Ann.99 th %s			
SO ₂ – 24-Hour	5 μg/m³	1300 μg/m³			
SO ₂ – Annual	1 μg/m³	80 μg/m3			

Overall maximum impacts will generally be used for pollutants and averaging times where other types of statistical averages are not specified.

<u>Significant Impact Areas:</u> Modeled concentrations that exceed the applicable SILs will be used to determine the extent of the Significant Impact Areas (SIAs), which are circular areas with radii equal to the distance of the furthest significant receptor from the project for the NAAQS and PSD increment. SILs and the associated SIAs will be based on the following:



- 1-hour NO₂ and SO₂ based on the 5-year average of the maximum 1-hour concentrations each year at each receptor due to normal facility operations using ARM2. Intermittent sources such as the emergency generators will be included in the SILs analysis but will use the EPA method for modeling which is based on the annualized emissions.
- 24-hour PM2.5 based on the five (5)-year average of the maximum 24-hour concentrations each year at each receptor
- Annual PM2.5 is based on the five (5)-year average of the annual concentrations for all years at each receptor.
- 24-hour PM10 and SO₂ based on the over maximum 24-hour concentration during any of the five (5) years at each receptor.
- 1 and 8-hour CO will be based on the maximum concentration for each receptor overall five (5) years.
- Annual SO₂ based on the maximum annual concentration for each year and at each receptor.

Proposed PM2.5 SIL: The proposed Class I and Class II PM2.5 SILs for this project are identical to the EPA established SILs, which were vacated by the courts. With respect to reliance on the PM2.5 SILs, EPA cautioned that reliance on the SILs alone to demonstrate that a source will not cause or contribute to a violation of the PM2.5 NAAQS is inadequate. However, EPA stated that permitting authorities have the discretion to select and utilize a PM2.5 SIL value if there is sufficient justification for the selected SIL value and justification in the manner in which it will be used. The SIL values for PM2.5 in EPA regulations can also continue to be used if the permitting authority also takes background concentrations of PM2.5 into account. For this project, the difference between the PM2.5 NAAQS and the monitored PM2.5 background concentrations in the area is greater than the SILs. Based on the data in Table 7, over 41 percent of the available standard is still available. Thus, given the amount of available PM2.5 standard in the project region, the applicant proposes to use the previously vacated PM2.5 SILs for both Class I and Class II modeling assessment, for the NAAQS. If any of the modeling demonstrates an existing violation to the NAAQS, it is proposed that the applicant may continue to show that the proposed source does not contribute to an existing violation of the PM2.5 NAAQS by demonstrating that the proposed source's PM2.5 impact does not significantly contribute to an existing violation of the PM2.5 NAAQS. Comparison to the SILs for PSD Class I and Class II increments will be based on the maximum short-term or annual project impacts. For these analyses, the EPA SILs for PM2.5 of 1.2 and 0.3 μg/m³ for PSD Class II areas and 0.07 and 0.06 μg/m³ for PSD Class I areas are proposed for evaluating project impacts for 24-hour and annual averaging times, respectively.

NAAQS/Increment Multisource Inventory Request: Based on results of the SILs analyses performed for the project and for those pollutants above the applicable SILs, a request of a multisource inventory of all facilities with either PM10, PM2.5, CO and NO_x emissions will be made to the ODEQ. Intel will also request that the PSD-increment sources be identified for PM10, PM2.5 and NO_x .



NAAQS and Increment Modeling Procedures: Per EPA guidance, Appendix W and the *Draft NSR Workshop Manual* require that the cumulative and increment impacts analysis to include "nearby sources", which includes "[a]II sources expected to cause a *significant concentration gradient* in the vicinity of the source or sources under consideration." This is performed for sources within the SIA plus the 50 km screening area beyond the maximum radial distance of the SIA. Appendix W further instructs that the "impact of nearby sources should be examined at locations where interactions between the plume of the point source under consideration and those of nearby sources (plus natural background) can occur". Emphasizing that "[t]he number of sources is expected to be small except in unusual situations". Thus, only sources with a significant concentration gradient in the vicinity of the source need to be included.

To limit the total number of sources used in the cumulative NAAQS analysis, a Q/D assessment will be made on the ODEQ supplied inventory. The existing facilities in the NAAQS cumulative multisource inventory will be screened with the Q/D analysis⁴, where Q is the equivalent ton/year emission rate (appropriately accounting for emergency equipment) and D is the shortest distance in km from the multisource facility to the nearest SIA boundary for PM2.5/PM10 and the 10-km area that is the focus of the NO₂ analyses. Those facilities with a Q/D value greater than 20 tpy/km will be included in the cumulative NAAQS.

For assessing increment, the major and minor source baseline dates have already been triggered. As such, it will be assumed that in the absence of a distinct increment consumption inventory that all cumulative sources used in the NAAQS analysis will also be increment consumers. Based on the results of the SIL analyses, increment for 24-hour and annual PM2.5, 24-hour PM10 and annual NO₂ will be assessed. There are no PSD increments for CO. SO₂ will not be emitted at the major (PSD) source levels.

Ozone and Secondary PM2.5 Formation: The EPA developed a Tier 1 demonstration tool for ozone and PM2.5 precursor emissions called Modeled Emission Rates for Precursors (MERPs). The development of the tool and related guidance is summarized in a memorandum from EPA dated April 2019, with a subject, "Guidance on the Development of Modeled Emission Rates for Precursors (MERPs) as a Tier 1 Demonstration Tool for Ozone (O3) and PM2.5 under the PSD Permitting Program." The basic idea behind the MERPs is to use technically credible air quality modeling to relate precursor emissions and peak secondary pollutant impacts from specific or hypothetical sources. The ODEQ AQDM Recommended Procedures will be used the air quality modeling results presented in EPA MERPs memorandum to derive MERPs for hypothetical sources located in the Western U.S.

MERPs can be used to demonstrate that projected impacts from a proposed source are less than the applicable SILs or when included with the modeling results, would not cause or contribute to a violation of a NAAQS or PSD increment for that pollutant.

The MERP is based on a hypothetical source emission rate, the modeled concentration from that emission rate, and the relevant SILs for O_3 and PM2.5 (1 ppb for O_3 , 1.2 $\mu g/m^3$ for 24-hr PM2.5, and 0.2 $\mu g/m^3$ for annual PM2.5). The lowest MERP value for each precursor identifies the most conservative condition. ODEQ recommends the use of the Morrow, Oregon site, which is located near Arlington on the Columbia River. For the Tier I analysis, the smallest MERP values will be used for the 8-hour O_3 impact assessment and the 24 and annual PM2.5 assessment.

⁴North Carolina Department of Environment and Natural Resources - Air Permit Unit, 1985: A Screening Method for PSD, July 22, 1985. Memo from Eldewins Haynes to Lewis Nagler, EPA Region IV. This method was originally approved by EPA Region IV in a September 5, 1985 letter from Bruce Miller to Eldewins Haynes.



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O₃ 8-hr avg. analysis

- For NO_x the lowest MERP is 258 for a hypothetical 500 tpy source and a concentration of 1.9396 ppb
- For VOC the lowest MERP is 1087 for a hypothetical 500 tpy source and a concentration of 0.46018 ppb

PM2.5 24-hr avg. analysis

- For NO_x the lowest MERP is 3003 for a hypothetical 500 tpy source and a concentration of 0.19979 ug/m^3
- For SO_x the lowest MERP is 2314 for a hypothetical 500 tpy source and a concentration of 0.25927 ug/m^3

Annual PM2.5

- For NO_x the lowest MERP is 7942 for a hypothetical 500 tpy source and a concentration of 0.01259 ug/m^3
- For SO_x the lowest MERP is 11877 for a hypothetical 500 tpy source and a concentration of 0.00842 ug/m³

<u>PSD Class I AQRV Analyses</u>: The Facility will be a federal major source for criteria pollutant emissions subject to PSD permitting requirements. PSD Class I Air Quality Related Value (AQRV) analyses, including visibility and nitrogen deposition may also be required. The nearest Class I area is the Mount Hood National Forrest, operated by the U.S. Forest Service, located approximately 80 km to the east. Seven (7) additional Class I areas are located within 200 km of the facility. The range of distances to each Class I area is listed in Table 10 below and are also presented in Figure 8.

Following the most recent FLAG Workshop procedures (June 2010), the use of the Screening Procedure (Q/D) to determine if the project could screen out of a formal AQRV assessment for visibility and nitrogen deposition was made. Following the screening procedures in FLAG, Q is calculated as the sum (in tons/year) of emissions of NO_x, SO_x, and PM2.5 based on the worst-case hour on the worst-case day and adjusted to reflect 365 days of operation. The screening calculation takes the form of:

Q = sum (NO_x+PM2.5+SO_x) in maximum lbs/hr (for 24-hours) for the worst-case day * 365 days/year

The results of the Q/D scenarios are presented in Table 10.

If Q/D is less than 10, then no AQRV analysis is required, as shown above for the nearest Class I area. Based on the ratio of Q/D, none of the Class I areas have a Q/D of greater than 10. Therefore, it is proposed that no further analyses of AQRVs for visibility or nitrogen deposition are required for those areas. The applicant will coordinate with the FLM's on the Q/D results as well as providing a copy of this modeling protocol.



	TABLE 10						
NEARBY CLASS I AREAS AND Q/D SCREENING RESULTS							
Class I Areas	Minimum Distance	Q/D					
	(km)	(Worst Case)					
Mt Hood OR (MOHO)	80	7.0					
Mt Jefferson OR (MOJE)	116	4.8					
Mt Adams WA (MOAD)	121	4.6					
Goat Rocks WA (GORO)	145	3.9					
Mt Washington WA (MOWA)	150	3.7					
Mt Rainier WA (MORA)	153	3.7					
Three Sisters OR (THSI)	167	3.4					
*Q/D based on worst case day.							

<u>PSD Class I SILs AERMOD Screening Analyses</u>: The AQRV exemption does not apply to modeling compliance with the PSD Class I increments or NAAQS, which are required if the Class I SILs are exceeded. Therefore, Class I SILs modeling will be assessed for the Class I areas listed in Table 10. Modeling will first be performed for the Intel project emissions only and then compared to the applicable Class I SILs. The Class I receptor grid and elevations given by the National Park Service Air Resources Division on the webpage will be used:

http://www.nature.nps.gov/air/Maps/Receptors/index.cfm

These receptors will be converted to UTM NAD83 coordinates by the US Army Corps of Engineers CORPSCON program for Class I areas within 50 km of the Intel project site(s).

The EPA Modeling Guidelines suggest that the use of AERMOD be limited to distances of less than approximately 50 km, beyond which the CALPUFF dispersion model is typically used to assess the long-range transport of pollutants. Since the requirement to assess AQRVs for each of these areas may not be required, based on the Q/D results, an alternative modeling approach with AERMOD is proposed for assessing Class I SILs for each Class I area that is located at a distance greater than 50 km. The proposed approach would utilize a ring of receptors at 50 km distance from the Intel project, with receptors placed at two (2) degree intervals over the entire 360-degree circle of receptors. For each of these receptors, the receptor heights would be based on the lowest elevation to the maximum elevation for each of the 15 Class I areas, at 100-meter elevation intervals. Using this grid, the Class I SILs listed in Table 11 would be assessed. If any of the Class I areas have impacts that exceed the SILs, then the CALPUFF modeling will be used to reassess these SILs and, if needed, would also be used to assess PSD Class I area increments and NAAQS. Figure 7 also presents the AERMOD receptor grids.



Table 11 Class I SILs					
Pollutant	Averaging Time	Class I			
		SIL (μg/m³)			
PM25	24	0.07			
PM25	Annual	0.06			
PM10	24	0.3			
NO ₂	Annual	0.1			

Analyses of the Columbia River Gorge Scenic Area (CRGSA): A separate nitrogen deposition and regional haze modeling analyses for the CRGSA may be requested by the ODEQ and the Forest Service. This request would be to address concerns on the background impacts in this area regarding visibility and deposition. The CRGSA is located approximately 40 km east of the Intel project site(s). If requested, AERMOD would be used to assess nitrogen deposition. The AERMOD model calculates atmospheric deposition of nitrogen by calculating the wet and dry fluxes of total nitrogen. This deposition is accomplished by using a resistance model for the dry deposition part, and by assigning particle phase washout coefficients for the wet removal process from rainout. The depositional parameters are input into the model in order to calculate the deposition of nitrogen. The depositional parameters will be based on nitric acid (HNO₃), which is consistent with the USFS modeling assumptions that can be used to calculate the amounts of nitrogen deposition from the Intel project. Nitric acid tends to deposit more readily than most other compounds.

In addition to deposition, a nearfield coherent plume visibility assessment may be requested. The most recent version of VISCREEN (13190) would be used to conduct the plume blight analysis with a 98th percentile background visual range as recommended by the FLM Guidance.

<u>Additional Impact Assessments:</u> Additional impact assessments will be made with regards to socioeconomics and biology. The impacts to sensitive species and plants will be included with regards to pollutant concentrations and possible depositional effects. The PSD permit application package will include these additional studies. Table 12 presents the summary of the EPA SILs, NAAQS and increments that will be used throughout the modeling assessments.

FINAL MODELING SUBMITTAL

As part of the final modeling analyses, the ODEQ will be supplied with the following materials which will be submitted in electronic format:

- AERMAP, BPIP-PRIME, and AERMOD input and output files
- Raw and processed meteorological data and background air quality data
- AERMET and AERSURFACE input and output files
- Data from the Monte Carlo Simulations
- Other data as needed to support the dispersion modeling assessments



Table 12

Significant Impact Levels (SILs), National Ambient Air Quality Standards (NAAQS), PSD Class II Increments, and Significant Monitoring Concentrations for Criteria Pollutants

Pollutant	Averaging Period	SIL ¹ ug/m ³	NAAQS ug/m³ (ppb)	Form of NAAQS with Respect to Modeling ²		PSD Class II Increment ³ (ug/m³)	Form of Class II Increment		Significant Monitoring Concentration ⁴ (ug/m ³)
	1 hour	7.5 ⁵	188 (100)	Average 8 th Highest ⁶	EPA/OAQPS memos; ⁷ 6/29/10 & 3/01/11				
NO ₂	Annual	1	100 (53)	Max. annual arithmetic mean	Section 7.2.1.1 App. W	25	NTBE (Max. annual arith. mean)	Section 7.2.1.1 App. W	14
	1 hour	7.8 ⁵	196 (75)	Average 4 th Highest ⁶	S. Page memo; 8/23/10 ⁸				
	3 hour	25	1300 (500)	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	512	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	
SO 2	24 hour	5	365 (140) ⁹	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	91	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	13
<u>-</u>	Annual	1	80 (30) ⁹	Max. annual arithmetic mean	Section 7.2.1.1 App. W	20	NTBE (Max. annual arith. mean)	Section 7.2.1.1 App. W	
	24 hour	1.2	35	Average 1 st Highest ¹¹	S. Page memo;	9	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	4
PM 2.5 ¹⁰	Annual	0.3	12	Average 1 st Highest ¹¹	3/23/1011	4	NTBE (Max. annual arith. mean)	Section 7.2.1.1 App. W	
	24 hour	5	150	NTBE >once/year on average over 5 years (H6H) ¹²	Section 7.2.1.1 App. W	30	NTBE >once/year (H2H)	Section 7.2.1.1 App. W	10
PM 10	Annual	1		REVOKED ¹³		17	NTBE (Max. annual arith. mean)	Section 7.2.1.1 App. W	
	1 hour	2000	40,000 (35,000)	NTBE >once/year (H2H)	Section 7.2.1.1 App. W				
со	8 hour	500	10,000 (9000)	NTBE >once/year (H2H)	Section 7.2.1.1 App. W				575
Pb	Rolling 3-month Avg.		0.15	NTBE					0.1

^{&#}x27;A 01/22/13 court decision remanded and vacated the PM2.5 SIL provision under 40CFR 52.21(k)(2) and 51.166(k)(2). Modelers are advised to consider the potential for a NAAQS exceedance by examining the existing air quality levels at representative monitors for any PSD affected pollutant. [See draft PM2.5 guidance (EPA-454/D-13-001; 180pp.)]

²Form of the standard assumes 5 years of meteorological data. If using site specific meteorological data, the form of the standard would be based on at least one year (up to 5 years) of site specific data.

 $^{^3}$ All short-term increments are based on the H-2-H regardless of the form of its respective NAAQS.

^{&#}x27;A 01/22/13 court decision vacated the SMC for PM2.5. While the implication to other SMCs is not stated, it is proudent to obtain representative data. [See S. Page memo (03/04/13) & draft PM2.5 guidance (EPA-454/D-13-001; 180pp.]. While no SMC is provided for ozone, any emissions increase of 100 tons per year or more of VOC or NOx subject to PSD would be required to obtain one year of ozone air quality data. [See 40 CFR §52.21(i)[5)]

The 1-hour NO and 1-hour SO values are EPA interim SILs until EPA undergoes rulemaking. A State may adopt its own SIL but usually relies on EPA's suggested SIL. The form of the SIL follows the form of its respective NAAQS, i.e., for probabilistic standards (including PM2.5) the SIL analysis is based on the maximum concentrations at each receptor averaged over the number of meteorological years modeled rather than the maximum at any receptor.

For NO2, based on 5 year average of the 98th percentile of the annual distribution of the daily maximum1-hour values at each receptor. (For SO2 it is the 99th percentile). Concentrations at lower ranks must also meet the NAAQS (i.e., the 97th, 96th percentile). If there is 1 year of site specific data (up to 5 years), the averaging is based on the number of years of meteorological data.

Guidance Concerning the Implementation of the 1-hour NO2 NAAQS for the Prevention of Significant Deterioration Program (6/29/10): http://www.epa.gov/region07/air/nsr/nsrmemos/appwno2.pdf

Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO2 NAAQS (3/01/11): http://www.epa.gov/ttn/scram/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf

*Guidance Concerning the Implementation of the 1-hour SO2 NAAQS for the Prevention of Significant Deterioration Program (08/23/10): http://www.epa.gov/tregion07/air/nsr/nsrmemos/appwso2.pdf (See also 3/01/11 memo for SO2; Note 7.)

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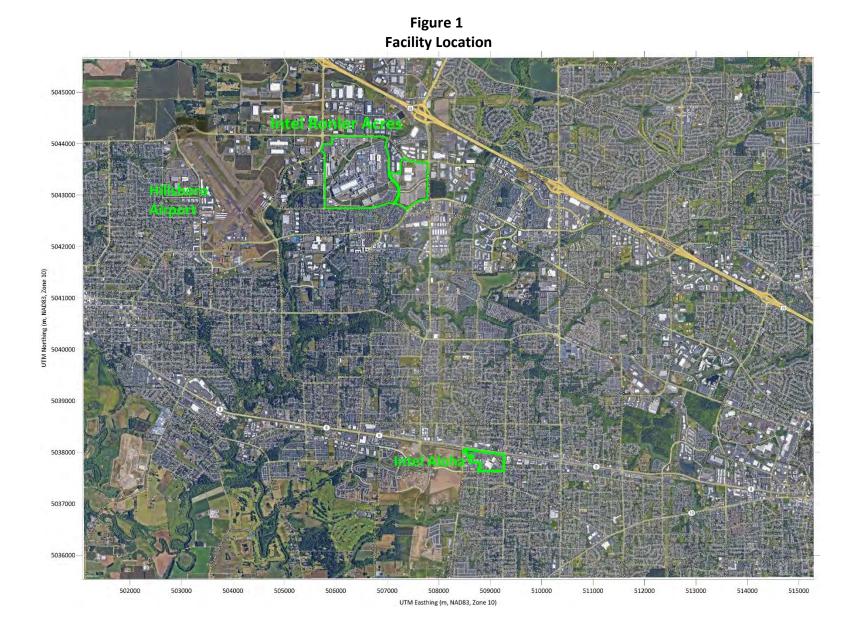
¹⁰The PM2.5 Increment, SILs and SMC values may be found in http://edocket.access.gpo.gov/2010/pdf/2010-25132.pdf

[&]quot;On 03/23/10 EPA recommended that the modeled component of the PM2.5 NAAQS be shown using the average H-1-H rather than the design value of 98th percentile (http://www.epa.gov/region07/air/nsr/nsrmemos/pm25memo.pdf). Compliance with the annual

PM2.5 NAAQS is also based on the average H-1-H. These recommendations are revisited in the 03/04/13 draft PM2.5 guidance provided that secondary formation is addressed. See NFR (10/17/06) in which the 24-h NAAQS was revised from 65 ig/m² to 35 ig/m²: http://www.gpo.gov/fdsys/pkg/FR-2006-10-17/pdf/06-8477.pdf

¹² Form of PM10 NAAQS allows the standard to be exceeded once/year on average using the H-6-H value over 5 years. See Section 7.2.1.1 of App. W & p.4 of S. Page memo (03/23/10).

[&]quot;The annual PM10 NAAQS of 50 ig/m² was revoked 17 October 2006 but the annual PM10 PSD increment remains in effect. See NFR (10/17/06): http://www.gpo.gov/fdsys/pkg/FR-2006-10-17/pdf/06-8477.pdf





OTM Northing (m, NAD83, Zone 10)

2043600 – 00436000 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 0045600 – 00456000 – 0045600 – 0045600 – 00456000 – 00456000 – 00456000 – 00456000 – 00456000 – 00456000 – 0045

Figure 2 Ronler Acres Site Plan



UTM Easting (m, NAD83, Zone 10)

Figure 3 Aloha Site Plan





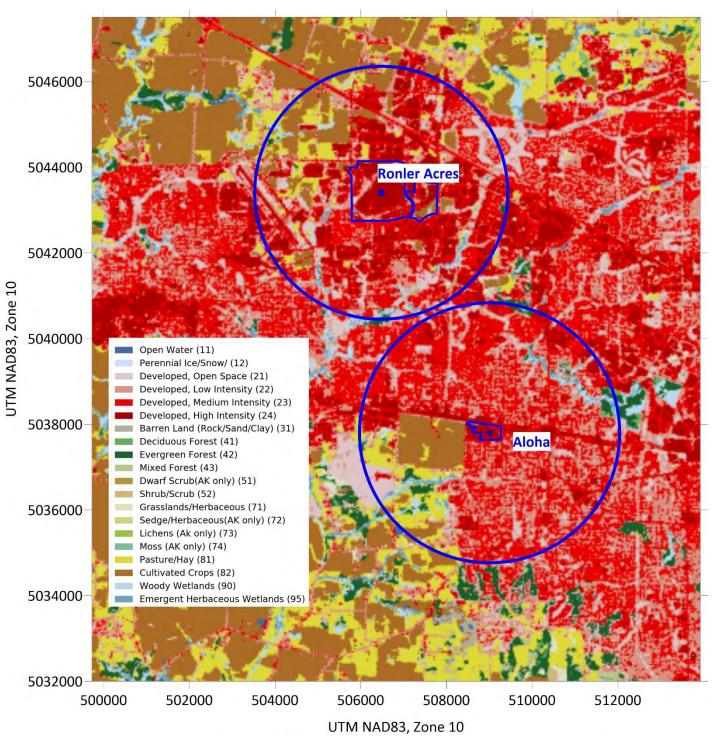


Figure 4
Land Use Surrounding the Intel Sites (3 km Radius in Blue)



Figure 5
Hillsboro Annual Wind Rose (2016-2020)

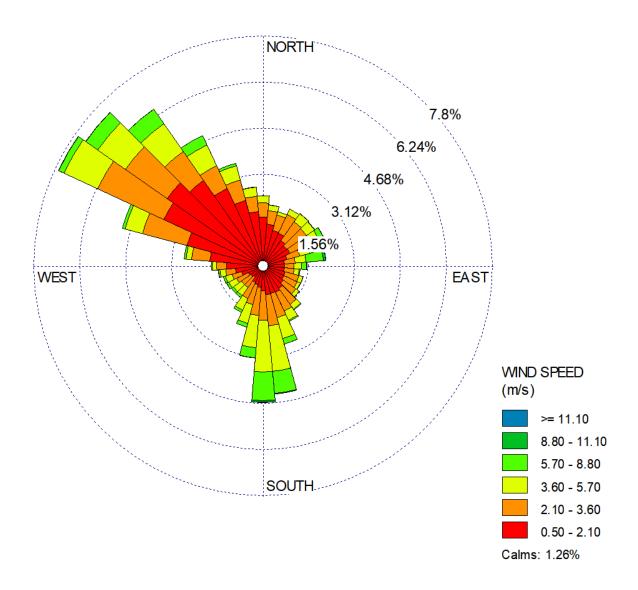




Figure 6
Monte Carlo Simulation Flow

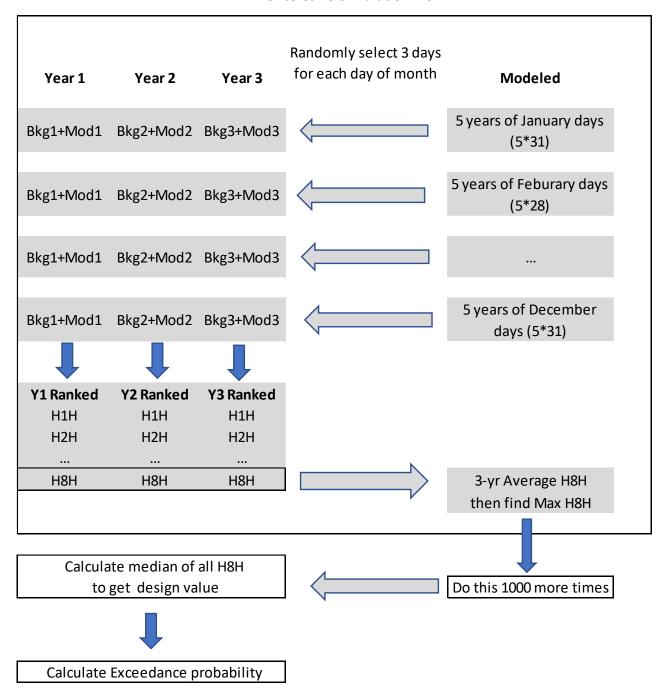




Figure 7 **Project Receptor Grids** 5050000 5045000 UTM Northing (m, NAD83, Zone 10) 5040000 5035000 5030000 500000 505000 515000 UTM Easthing (m, NAD83, Zone 10)



Figure 8
Class I Areas and AERMOD Receptors used for Modeling

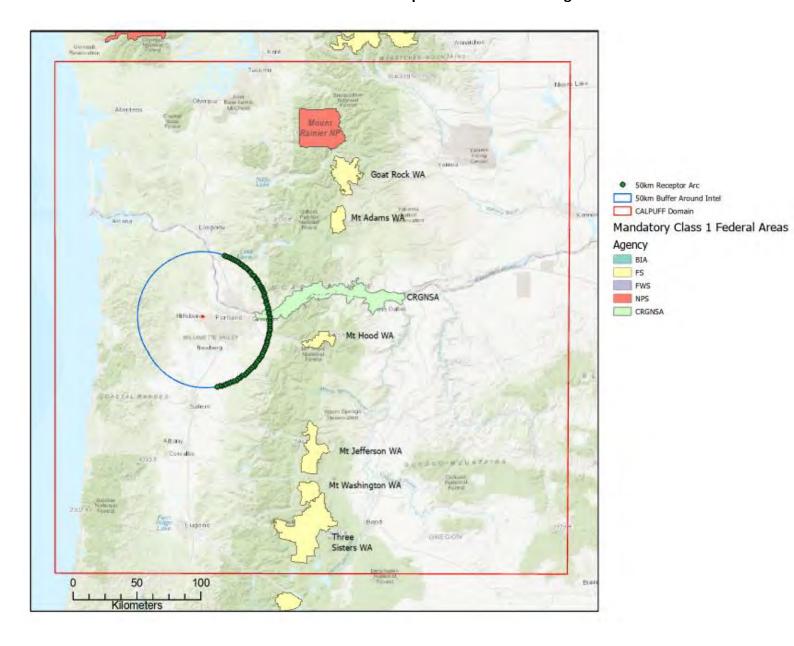




Figure 9 NO₂ Monitoring Data Trends 2018-2022

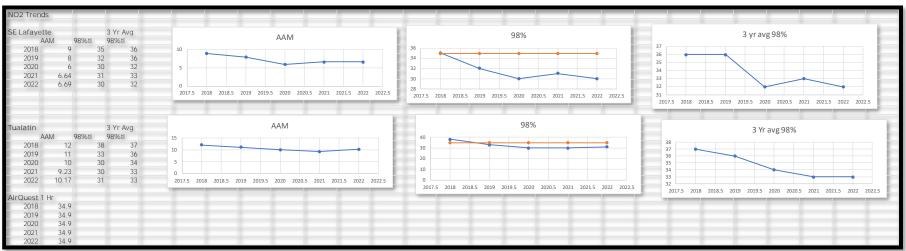




Figure 10 PM2.5 Monitoring Data Trends 2018-2022

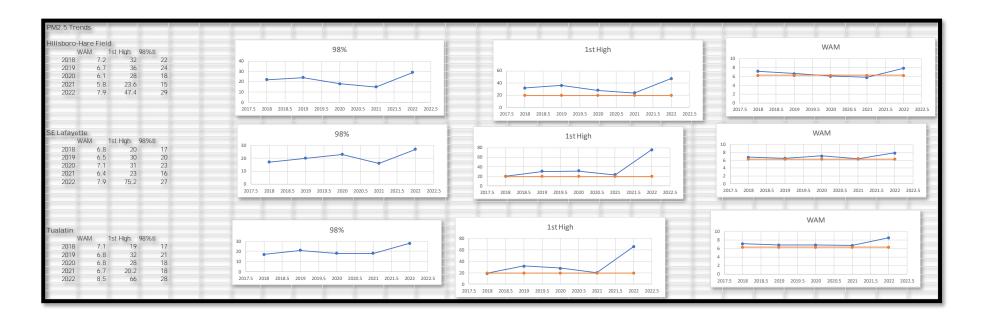
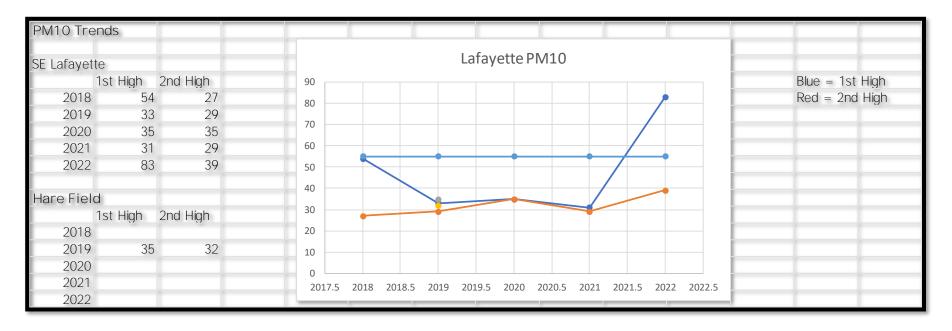
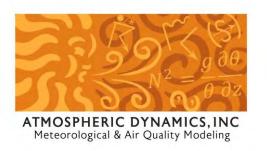




Figure 11 PM10 Monitoring Data Trends 2018-2022





Memorandum

To: Phil Allen/ Kristin Martin: ODEQ

From: Greg Darvin: Atmospheric Dynamics

Date: May 24, 2023

Subject: Clarification on the Urban Population Value Used in AERMOD

Reviewing the AERMOD Implementation Guide (June 2022) provides the following recommendations for assigning an urban population number in AERMOD.

For urban areas adjacent to or near other urban areas, or part of urban corridors, the user should attempt to identify that part of the urban area that will contribute to the urban heat island plume affecting the source(s). If this approach results in the identification of clearly defined MSAs, then census data may be used as above to determine the appropriate population for input to AERMOD. Use of population based on the Consolidated MSA (CMSA) for applications within urban corridors is not recommended, since this may tend to overstate the urban heat island effect. Similarly, for application sites that are in isolated areas of dense population but are not representative of the larger MSA, care should be taken to determine the extent of the area the urban area that will contribute to the urban heat island plume affecting the source(s).

For situations where MSAs cannot be clearly identified, the user may determine the extent of the area, including the source(s) of interest, where the population density exceeds 750 people per square kilometer. The combined population within this identified area may then be used for input to the AERMOD model.

As you know, dispersion within urban environments has different characteristics than that occurring in a rural environment. The urban boundary layer will behave in a more convective, turbulent manner during the hours just after sunset due to the urban heat island effect.

I believe the use of the Hillsboro population of 107,299 (based on the 2020 US Census data) underrepresents the magnitude of the urban-rural temperature difference and urban heat island effect(s) within the impact areas near both project sites. For reference, the main Ronler campus is within the city of Hillsboro and the Aloha campus in the city of Aloha.

Using the Aloha project site as general center point, Figure 1 presents a map showing the project locations relative to the city boundaries in the region. The Aloha site is approximately 10 kilometers from the northwestern edge of the Hillsboro city boundary and nine (9) kilometers from the southeastern edge of the Beaverton city boundary. The three cities proposed for identifying the population are Hillsboro, Aloha and Beaverton. Each of the proposed cities vastly exceeds the 750 people per square kilometer threshold for identifying the area as urban. The three (3) cities also represent a continuous urban/developed



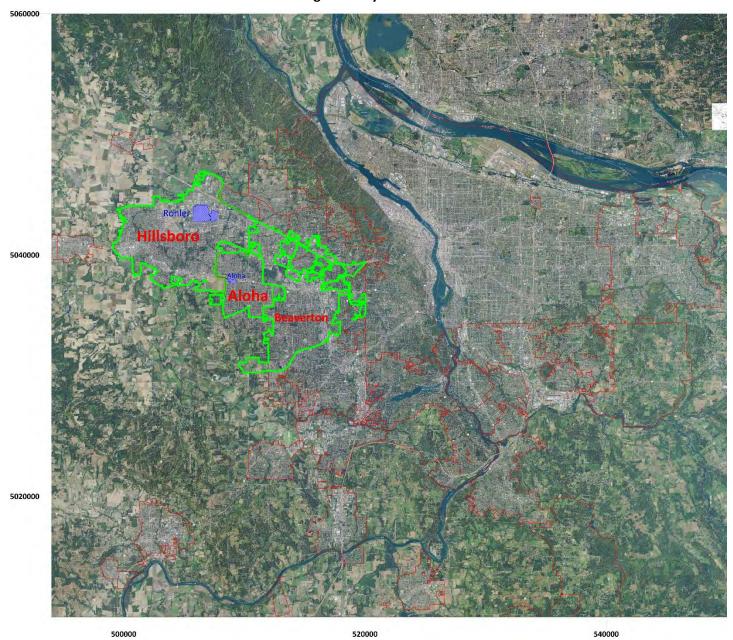
corridor which is aligned with the predominant wind direction. The use of the 2022 census derived population data and population density data are summarized in Table 1.

	TABLE 1 EXISTING POPULATIONS AND I			
	Population*	Population Density/km ^{2*}		
Hillsboro	107,299	1,601.3		
Aloha	58,828	2,825.3		
Beaverton	97,053	1,920.2		
Total	263,180			
* 2020 /2022 United States Census Bureau Data				

Based on the combined population of 263,180, this value is proposed to be used for the population input into AERMOD. This combined population would present a conservative and appropriate magnitude of the urban heat island effects within the impact areas surrounding both sites.



Figure 1 City Boundaries







Memorandum

To: Phil Allen/ Kristin Martin: ODEQ, Rick Graw: USFS

From: Greg Darvin: Atmospheric Dynamics

Date: June 2, 2023

Subject: Clarification on the Q/D calculation procedures for the Class I Areas

<u>PSD Class I AQRV Analyses</u>: The Facility will be a federal major source for criteria pollutant emissions subject to PSD permitting requirements. PSD Class I Air Quality Related Value (AQRV) analyses, including visibility and nitrogen deposition may be required if determined from the screening procedure summarized below. The nearest Class I area is the Mount Hood National Forrest, operated by the U.S. Forest Service and is located approximately 80 kilometers (km) to the east. In total, nine (9) Class I areas are located within 300 km of the project.

Following the FLAG Workshop procedures (June 2010), the use of the Screening Procedure Q/D (Q is the total emissions in tons per year and D is the distance in kilometers to the Class I area) to determine if the project could screen out of a formal AQRV assessment for visibility and nitrogen deposition was made. Following these procedures in FLAG, Q is calculated as the sum (in tons/year) of emissions of NO_x , H_2SO_4 and PM10 based on the maximum 24-hour net emissions increase for each pollutant from the proposed project. The actual baseline emissions were not included in the in the proposed increase, as per FLAG. There will be no increase in SO_2 emissions over the existing PSEL so this pollutant was not included in the calculation of Q. The existing PSEL emissions and the proposed hourly increases converted to tons are summarized in Table 1.

	NO	D1440		•
	NO _x	PM10	H ₂ SO ₄	Q
	tpy	Тру	tpy	tons
Current PSEL	197.0	35.0	0	-
Proposed Increase				
without Emergency	226.0*	27.5*	0.93*	-
Generators				
Proposed Increase				
Emergency	124.1*	10.24*	_	_
Generators Only	124.1	10.24		
(worst-case day)				
Total for Q/D	350.10	37.74	0.93	388.77
Calculation	330.10	37.74	0.33	300.//
Total PTE	423.0	62.5	0.93	



While most of the sources are steady state and operate almost continuously 24-hours per day, the emergency diesel generators are limited to 30 hours per year, with no more than 10 engines being tested during any day. To determine the worst-case daily emissions for the emergency generators, the 10 highest emitting engines' emissions were summed to calculate a pound per day (lb/day) emission rate. This was then multiplied by 365 days and converted to tons per year (tpy) to calculate the engines contribution to the total emissions (Q). The emergency diesel generators do not emit H_2SO_4 . As an example, for NO_x :

Each emergency generators at 68 lb/hr each or 10 engines on a daily basis at 680 lb/day 680 lb/day * 365 day/yr * 1 ton/2000 lb = 124.1 tpy

This is repeated for PM10 but with a different set of 10 engines which have a higher PM10 emission rate.

Each emergency generators at 5.61 lb/hr each or 10 engines on a daily basis at 56.1 lb/day 56.1 lb/day * 365 day/yr * 1 ton/2000 lb = 10.24 tpy

Using this procedure on the emergency generators which is then added to the steady state Q, the total facility Q based on the increase in NO_x , PM10 and H_2O_4 is:

Q = sum ($NO_x+PM10+H_2SO_4$) in maximum lbs/day (for the worst-case day including emergency generators) * 365 days/year * 1 ton/2000 lbs = 388.77 tons

The results of the Q/D scenarios are presented in Table 2. If Q/D is less than 10, then no AQRV analysis is required, as shown above for the nearest Class I area. Based on the ratio of Q/D, there are no Class I areas that have a Q/D of greater than 10. Therefore, the FLM's can exempt the projects impacts on AQRVs for visibility or nitrogen deposition in these areas. There are no exemptions for Class I SILs and NAAQS, which will be assessed as applicable.

TABLE 2 NEARBY CLASS I AREAS AND Q/D SCREENING RESULTS					
Class I Areas	Minimum Distance (km)	Q/D*			
Mt Hood OR (MOHO)	80	4.9			
Mt Jefferson OR (MOJE)	116	3.4			
Mt Adams WA (MOAD)	121	3.2			
Goat Rocks WA (GORO)	145	2.7			
Mt Washington WA (MOWA)	150	2.6			
Mt Rainier WA (MORA)	153	2.5			
Three Sisters OR (THSI)	167	2.3			
Diamond Creek (DC)	223	1.7			
Crater Lake (CR)	279	1.4			
*Q/D based on worst case day.					





Memorandum

To: Phil Allen/ Kristin Martin: ODEQ

From: Greg Darvin: Atmospheric Dynamics, Inc.

Date: June 14, 2023

Subject: Clarification on the 1-Hour NO₂ Intermittent Source Modeling Approach

As outlined in USEPA guidance documents (March 1, 2011, USEPA memorandum "Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 National Ambient Air Quality Standard"), the project will also include intermittent sources comprised of emergency diesel generators and fire pumps in the 1-hour NO_2 modeling assessments. Since the engines would each be tested far less than 100 hours/year (limited to 25 hours per year per engine, except for the fire pump engines which are tested 50 hours per year), the annual average emission rate was modeled for the 1-hour NO_2 NAAQS modeling analyses per EPA guidance due to the statistical nature of these standards. For CO, PM10, and PM2.5, the maximum hourly emission rates will be used.

The current permit limits the testing to no more than 10 engines per day. In order to determine which group of engines would present the worst-case potential 1-hour NO_2 impact, an air quality screening analysis will be performed to determine which group of engines would produce the maximum 98^{th} percentile concentration. This screening assessment will use the NO_2 annualized emission rates. All the engine emissions will be based upon 100% load, with specific source groups identified for each group of engines that are tested during any one (1) hour. The engines can only be tested between 8 AM to 6 PM (controlled using the EMISFACT/HROFDY model option).

The results of the engine screening analysis will be used to input the appropriate groups of diesel engines into the final modeling assessments. The use of the EPA methodology is in addition to the use of the Monte Carlo approach for determining 1-hour NO₂ project-based concentrations.





Department of Environmental Quality Agency Headquarters

700 NE Multnomah Street, Suite 600 Portland, OR 97232 (503) 229-5696 FAX (503) 229-6124

TTY 711

June 16, 2023

Wes Lund RS5 M/S 115 Intel Corporation 5200 NE Elam Young Parkway Hillsboro, OR 97124

Mr. Lund,

DEQ has completed the review of the modeling protocols (the Protocol) for the proposed expansion of operations at the Intel Corporation Ronler Acres and Aloha facilities located near Hillsboro, Oregon. These protocols, which were submitted by the modeling consultant Atmospheric Dynamics, Inc. on behalf of the Intel, include 1) the modeling protocol (4/26/2023), 2) the memorandum "Clarification on the Q/d calculation procedures for the Class I Areas" (6/2/2023), and 3) the memorandum "Modeling intermittent sources using annual emission rates" (6/14/2023).

DEQ approves the Protocol with the following comments that can be addressed, as necessary, in the final modeling report.

- 1. The modeling protocol as submitted did not include specific emissions units, emission estimates, or stack parameters. DEQ understands this information will be provided in the modeling report. When emission estimates, units, and stack parameters are provided in the report, DEQ may have additional comments that could affect the modeling results, and DEQ's approval of the air quality analysis.
- 2. For the NO₂ model employing ARM2, the default upper and lower limits on the ambient ratio should be 0.9 and 0.5, respectively, as outlined in section 3.3.6.3 of the AERMOD User's Guide. The original protocol (4/26/2023) incorrectly notes the national default conversion rate of 75% for annual and 80% for 1-hour.
- 3. For the 1-hour NO₂ modeling of nearby competing sources, annualize emissions based on the emission inventory previously provided by DEQ, should be used where specified by DEQ in this letter.
- 4. As confirmed in a discussion with the modeling consultant, AERSURFACE version 20060, utilizing the 2016 National Land Cover Dataset, including tree canopy and impervious geotiff files, will be used.
- 5. In order to meet the EPA requirements for modeling 1-hour NO₂ intermittent emission sources, the method as described in the modeling memorandum (6/14/2023) will be followed. Specifically, this method uses annualized emissions from a "worst case" group of engines, previously identified in a screening analysis. Additionally, the ARM2 method should be used for all sources and a competing source inventory should be included, as noted in items 2 and 3, respectively. The description of the modeling and the results using these annualized emissions will be presented in the body of the modeling report.
- 6. In order to meet DEQ requirements for modeling 1-hour NO_2 intermittent emission sources, the Monte Carlo method, as described in the original modeling protocol (4/26/2023), will be followed. As noted in

the original protocol, this method may utilize the PVMRM method for intermittent sources and does not need to include a competing source inventory. The description of the analysis and results using the Monte Carlo approach will be included in an addendum to the modeling report that will be submitted along with the report.

- 7. Regarding the 1-hour NO₂ Monte Carlo addendum, DEQ recommends adding a convergence discussion showing the number of iterations needed to achieve convergence of the maximum median 98th percentile of max daily values.
- 8. In accordance with OAR 340-225-0070, the Federal Land Managers (FLMs) of Class I areas potentially affected by the project have been notified by DEQ of the pending permit application. In their responses, the U.S Forest Service and the National Park Service, as FLMs, have both stated that a detailed analysis of Air Quality Related Values (AQRVs) is not required for their respective Class I areas and the Columbia River Gorge Scenic Area.
- 9. Although an analysis of AQRV impacts is not required at this time, additional analysis of contributions to regional haze from the Intel project will be required when DEQ conducts a comprehensive revision of the State Regional Haze Plan that is required by EPA no later than 2028 (Round 3 of Regional Haze). The details of this analysis are not yet fully developed, but in anticipation of future emission reduction requirements as part of the Regional Haze Plan, DEQ strongly encourages that NOx emissions be reduced for this proposed permitting action to the greatest extent feasible.
- 10. A copy of the modeling protocol (4/26/2023) and the Q/d clarification memorandum (6/2/2023) were provided to Jay McAlpine, EPA Region 10 Modeling Coordinator. His comments, and additional input from the EPA Office of Air Quality Planning and Standards (OAQPS), are addressed in this approval letter.
- 11. If during the modeling and preparation for the final Modeling Report, Intel proposes to make changes in the procedures or data as described in the Protocol, please notify DEQ as soon as practicable. This will facilitate timely review of the Modeling Report.

If you have questions about this approval letter, please contact us.

Sincerely,

Philip Allen DEQ Air Quality Modeler

Kristen Martin DEQ Senior Air Quality Modeler

Cc: Ali Mirzakhalili
Nina DeConcini
George Davis
Josh Alexander
Gregory Darvin, Atmospheric Dynamics, Inc.

Attachment B Source Data Used in the Modeling Assessment





|--|

Intel Corporation - S	Stack Information		041-11-:	0t1- Dit	Adimete d Otto de Flore Dete	04-		OtI. T					
		Ottobal D UTM UTM Elevation	Stack Height	Stack Diameter	Adjusted Stack Flow Rate	Sta	ack Velocity	Stack Temperatur	NOx	CO	PM PM ₁₀	PM _{2.5}	SO ₂
Equipment Type	Equipment ID	Stack ID UTM UTM Elevation Easting Northing (m)	(ft) (m)	(ft) (m)	(ft³/min) (m³/s)	(ft/min)	(ft/s) (m/s	s) (°F)	(K) (lb/hr) (tp	oy) (lb/hr) (tpy)	(lb/hr) (tpy) (lb/hr) (tpy) (lb/hr) (tpy)	(lb/hr) (tpy)
Boiler	F20-BLR115-1-200	BOC1_01 506743.17 5043806.7 62.70	99.00 30.18	2.67 0.81	6,266.76 2.96	1,122.06	18.70 5.7	0 210.00 3	2.04 3.40E-01 4.47	7E-01 1.15E+00 1.51E+0	00 7.72E-02 1.01E-01 1.61E-02 2. ⁻	1E-02 1.33E-02 1.74E-/	D2 8.03E-02 1.06E-01
Boiler	F20-BLR115-2-200	BOC1_02 506745.67 5043806.7 62.70	99.00 30.18	2.67 0.81	6,266.76 2.96	1,122.06	18.70 5.7			7E-01 1.15E+00 1.51E+0	00 7.72E-02 1.01E-01 1.61E-02 2.	1E-02 1.33E-02 1.74E-0	02 8.03E-02 1.06E-01
Boiler	F20-BLR115-3-200	BOC1_03 506748.17 5043806.7 62.70	99.00 30.18	2.67 0.81	6,266.76 2.96	1,122.06	18.70 5.7				00 7.72E-02 1.01E-01 1.61E-02 2.		
Boiler	F20-BLR115-4-200	BOC1_04 506750.67 5043806.7 62.70	99.00 30.18		6,241.00 2.95	1,986.57	33.11 10.0				00 7.50E-02 9.86E-02 1.56E-02 2.0		
Boiler Boiler	F20-BLR115-5-200 RA1-MECH-B01	BOC1_05 506753.17 5043806.7 62.70 BOR1 01 506843.5 5043630.5 62.70	99.00 30.18 95.00 28.96	2.00 0.61 0.67 0.20	6,241.00 2.95 223.81 0.11	1,986.57 641.18	33.11 10.0 10.69 3.2				00 7.20E-02 9.47E-02 1.50E-02 1.5 02 1.76E-03 2.32E-03 3.67E-04 4.8		
Boiler	RA1-MECH-B02	BOR1 02 506804.48 5043762.9 62.70	95.00 28.96	0.50 0.15	223.81 0.11	1,139.87	19.00 5.7				01 2.45E-03 3.22E-03 5.10E-04 6.7		
Boiler	CUB2-BLR115-1-210	BOC2_01 506579.98 5043557.1 62.70	45.00 13.72	2.67 0.81	2,557.86 1.21	457.98	7.63 2.3				00 7.87E-02 1.03E-01 1.64E-02 2.		
Boiler	CUB2-BLR115-2-210	BOC2_02 506579.22 5043582.7 62.70	45.00 13.72	2.67 0.81	2,557.86 1.21	457.98	7.63 2.3				00 7.87E-02 1.03E-01 1.64E-02 2.1		
Boiler	CUB2-BLR115-3-210	BOC2_03 506574.1 5043556.8 62.70	45.00 13.72	2.67 0.81	2,557.86 1.21	457.98	7.63 2.3				00 7.87E-02 1.03E-01 1.64E-02 2.1		
Boiler Boiler	CUB2-BLR115-4-210 CUB2-BLR115-5-210	BOC2_04 506575 5043575.9 62.70 BOC2_05 506536.08 5043603.2 62.70	45.00 13.72 45.00 13.72	2.67 0.81 2.00 0.61	2,557.86 1.21 6,241.00 2.95	457.98 1.986.57	7.63 2.3 33.11 10.0				00		
Boiler	CUB2-BLR115-5-210 CUB2-BLR115-6-210	BOC2 06 506556.51 5043600.4 62.70	45.00 13.72	2.00 0.61	6,241.00 2.95	1,986.57	33.11 10.0				00 7.50E-02 9.86E-02 1.56E-02 1.5		
Boiler	RA4-BLR152-2-30	BOR4 01 506497.72 5043102.2 62.70	121.06 36.90	0.67 0.20	270.58 0.13	775.15	12.92 3.9				01 4.90E-03 6.44E-03 1.02E-03 1.3		
Boiler	RA4-BLR152-1-30	BOR4_02 506500.12 5043103 62.70	121.06 36.90	0.67 0.20	270.58 0.13	775.15	12.92 3.9	4 350.00 4			01 4.90E-03 6.44E-03 1.02E-03 1.3		
Boiler	RA4-BLR117-2-30	BOR4_03 506524.09 5043114.7 62.70	132.00 40.23	1.00 0.30	1,771.91 0.84	2,256.07	37.60 11.4				01 4.90E-03 6.44E-03 1.02E-03 1.0		
Boiler	RA4-BLR117-1-30	BOR4_04 506526.12 5043116.1 62.70 BOR4_05 506460.1 5043063.7 62.70	132.00 40.23	1.00 0.30 2.00 0.61	1,771.91 0.84	2,256.07 2,099.07	37.60 11.4 34.98 10.6				01 4.90E-03 6.44E-03 1.02E-03 1.0		
Boiler Boiler	RA4-BLR117-3-30 RA4-BLR117-4-30	BOR4_05 506460.1 5043063.7 62.70 BOR4_06 506460.94 5043063.7 62.70	132.00 40.23 132.00 40.23	2.00 0.61	6,594.41 3.11 6,594.41 3.11	2,099.07	34.98 10.6				00 7.20E-02 9.47E-02 1.50E-02 1.9 00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	BLR-115-1-210	BOC3 01 506360.1 5043421.3 62.70	51.00 15.54	1.50 0.46	870.44 0.41	492.57	8.21 2.5				01 2.00E-02 2.63E-02 4.16E-03 5.4		
Boiler	BLR-115-2-210	BOC3_02 506360.1 5043423.2 62.70	51.00 15.54	2.67 0.81	3,481.75 1.64	623.40	10.39 3.1				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	BLR-115-3-210	BOC3_03 506360.3 5043432.1 62.70	51.00 15.54	2.67 0.81	3,481.75 1.64	623.40	10.39 3.1				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	BLR-115-4-210	BOC3_04 506359.8 5043418.4 62.70	51.00 15.54	2.67 0.81	1,523.26 0.72	272.74	4.55 1.3				00 8.00E-02 1.05E-01 1.66E-02 2.		
Boiler	BLR-115-5-210 BLR-115-6-210	BOC3_05 506360.1 5043419.9 62.70 BOC3_06 506334.9 5043505.4 62.70	51.00 15.54 51.00 15.54	2.00 0.61 2.00 0.61	2,200.75 1.04 2,200.75 1.04	700.52 700.52	11.68 3.5 11.68 3.5				01		
Boiler Boiler	RP1-BLR115-1-210	BOC3_00 500334.9 5043305.4 62.70 BORP1 01 506762 5043315.3 62.70	42.00 12.80	1.67 0.51	1,303.38 0.62	597.43	9.96 3.0				00 7.20E-02 9.47E-02 1.50E-02 1.5 01 3.41E-02 4.48E-02 7.09E-03 9.3		
Boiler	RP1-BLR115-2-210	BORP1 02 506762 5043311.1 62.70	42.00 12.80	1.67 0.51	1,303.38 0.62	597.43	9.96 3.0				01		
Boiler	RP1-BLR115-3-210	BORP1_03 506762 5043307 62.70	42.00 12.80	1.67 0.51	1,303.38 0.62	597.43	9.96 3.0				01 3.00E-02 3.94E-02 6.24E-03 8.2		
Boiler	RP1-BLR115-4-210	BORP1_04 506762 5043302.8 62.70	42.00 12.80	1.67 0.51	454.57 0.21	208.36	3.47 1.0				01 2.87E-02 3.77E-02 5.97E-03 7.8		
Boiler	CUB4-BLR115-1-10	BOC4_01 506418.13 5043522 62.70	86.50 26.37	1.67 0.51	4,645.00 2.19	2,129.11	35.49 10.8				01 3.50E-02 4.60E-02 7.28E-03 9.5		
Boiler Boiler	CUB4-BLR115-2-10 CUB4-BLR115-3-10	BOC4_02 506418.4 5043527.6 62.70 BOC4_03 506429.87 5043517.1 62.70	86.50 26.37 86.50 26.37	2.00 0.61 2.00 0.61	8,530.00 4.03 8,530.00 4.03	2,715.18 2,715.18	45.25 13.7 45.25 13.7				00 7.50E-02 9.86E-02 1.56E-02 2.0 00 7.50E-02 9.86E-02 1.56E-02 2.0		
Boiler	CUB4-BLR115-4-10	BOC4 04 506429.87 5043517.1 62.70	86.50 26.37	2.00 0.61	8,530.00 4.03 8,530.00 4.03	2,715.18	45.25 13.7				00 7.50E-02 9.86E-02 1.56E-02 2.0		
Boiler	CUB4-BLR115-5-10	BOC4 05 506429.87 5043527.8 62.70	86.50 26.37	2.00 0.61	8,530.00 4.03	2,715.18	45.25 13.7				00 7.20E-02 9.47E-02 1.50E-02 1.5		
Boiler	CUB4-BLR115-6-10	BOC4_06 506417.92 5043516.1 62.70	86.50 26.37	2.00 0.61	8,530.00 4.03	2,715.18	45.25 13.7	79 350.00 4	9.82 3.18E-01 4.17	7E-01 1.07E+00 1.41E+0	00 7.20E-02 9.47E-02 1.50E-02 1.9	7E-02 1.24E-02 1.63E-0)2 7.49E-02 9.84E-02
Boiler	CUB4-BLR115-7-10	BOC4_07 506437.44 5043483.6 62.70	86.50 26.37	2.00 0.61	8,530.00 4.03	2,715.18	45.25 13.7				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	RAC5-BLR115-1	BOC5_01 505876.9 5043551.4 62.70	70.00 21.34	2.00 0.61	8,530.00 4.03	2,715.18	45.25 13.7				00 7.20E-02 9.47E-02 1.50E-02 1.5		
Boiler Boiler	RAC5-BLR115-2 RAC5-BLR115-3	BOC5_02 505874.6 5043551.4 62.70 BOC5_03 505872.1 5043551.4 62.70	70.00 21.34 70.00 21.34	2.00 0.61 2.00 0.61	8,530.00 4.03 8,530.00 4.03	2,715.18 2.715.18	45.25 13.7 45.25 13.7				00 7.20E-02 9.47E-02 1.50E-02 1.9 00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	RAC5-BLR115-3	BOC5_03 505872.1 5043551.4 62.70	70.00 21.34	2.00 0.61	8,530.00 4.03 8,530.00 4.03	2,715.18	45.25 13.7				00 7.20E-02 9.47E-02 1.50E-02		
Boiler	RA2-BLR115-1-300	BOR2_01 506833.31 5043555.2 62.70	95.00 28.96	1.17 0.36	216.46 0.10	202.49	3.37 1.0				01 1.03E-02 1.35E-02 2.14E-03 2.8		
Boiler	RA2-BLR115-2-300	BOR2_02 506833.31 5043558.3 62.70	95.00 28.96	1.17 0.36	216.46 0.10	202.49	3.37 1.0			6E-02 1.54E-01 2.02E-0	01 1.03E-02 1.35E-02 2.14E-03 2.8	1E-03 1.77E-03 2.33E-0	03 1.07E-02 1.41E-02
Boiler	RS4-BLR115-1	BORS4_01 505917.6 5043854.6 62.70	54.00 16.46	1.00 0.30	1,771.91 0.84	2,256.07	37.60 11.4				02 4.90E-03 6.44E-03 1.02E-03 1.0		
Boiler	RS4-BLR115-2	BORS4_02 505917.6 5043851.9 62.70 BORS4_03 505917.6 5043849.4 62.70	54.00 16.46 54.00 16.46	1.00 0.30 0.67 0.20	1,771.91 0.84 270.58 0.13	2,256.07	37.60 11.4 12.92 3.9				02 4.90E-03 6.44E-03 1.02E-03 1.0		
Boiler Boiler	RS4-BLR115-3 RS6-BLR115-1	BORS4_03 505917.6 5043849.4 62.70 BORS6 01 505906.8 5043587.5 62.70	54.00 16.46	1.00 0.30	1,771.91 0.84	775.15 2,256.07	37.60 11.4				02		
Boiler	RS6-BLR115-2	BORS6 02 505906.8 5043586.1 62.70	54.00 16.46	1.00 0.30	1,771.91 0.84	2,256.07	37.60 11.4				02 4.90E-03 6.44E-03 1.02E-03 1.3		
Boiler	RS6-BLR115-3	BORS6_03 505906.8 5043584.7 62.70	54.00 16.46	0.67 0.20	270.58 0.13	775.15	12.92 3.9				02 1.23E-03 1.61E-03 2.55E-04 3.3		
Boiler	F15-BLR28-1-1	BOF15_01 508932.88 5037867.8 69.40	66.00 20.12	2.50 0.76	4,754.49 2.24	968.58	16.14 4.9				00 5.13E-02 6.74E-02 1.07E-02 1.4		
Boiler	F15-BLR28-1-2	BOF15_02 508934.61 5037866.7 69.40	66.00 20.12	2.50 0.76	4,754.49 2.24	968.58	16.14 4.9				00 5.13E-02 6.74E-02 1.07E-02 1.4		
Boiler	F15-BLR28-1-3 F15-HW35-3	BOF15_03 508933.22 5037866.3 69.40 BOF15_04 509007.08 5037758.4 69.40	47.00 14.33 75.53 23.02	2.50 0.76 0.50 0.15	4,754.49 2.24 195.08 0.09	968.58 993.56	16.14 4.9 16.56 5.0				00 5.13E-02 6.74E-02 1.07E-02 1.4 02 1.47E-03 1.93E-03 3.06E-04 4.0		
Boiler Boiler	F15-HW35-4	BOF15_05_508958.08_5037797.269.40	75.50 23.01	0.50 0.15	156.45 0.07	796.78	13.28 4.0				02 1.47E-03 1.93E-03 3.06E-04 4.0		
Boiler	RAC5-BLR115-5	BOC5 05 505857.7 5043551.4 62.70	70.00 21.34	2.00 0.61	6,594.41 3.11	2,099.07	34.98 10.6				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	RAC5-BLR115-6	BOC5_06 505855.4 5043551.4 62.70	70.00 21.34	2.00 0.61	6,594.41 3.11	2,099.07	34.98 10.6				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	RAC5-BLR115-7	BOC5_07 505853.3 5043551.4 62.70	70.00 21.34	2.00 0.61	6,594.41 3.11	2,099.07	34.98 10.6				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler	RAC5-BLR115-8	BOC5_08 505851.5 5043551.4 62.70	70.00 21.34	2.00 0.61 2.30 0.70	6,594.41 3.11	2,099.07	34.98 10.6				00 7.20E-02 9.47E-02 1.50E-02 1.9		
Boiler Boiler	N2-BLR117-1A-30 N2-BLR117-1B-30	BON2_02 506247.36 5043924.4 62.70 BON2_03 506247.36 5043924.4 62.70	23.00 7.01 23.00 7.01	2.30 0.70 2.30 0.70	2,582.41 1.22 2,582.41 1.22	623.40 623.40	10.39 3.1 10.39 3.1				00 1.12E-01 1.47E-01 2.32E-02 3.0 00 1.12E-01 1.47E-01 2.32E-02 3.0		
RCTO	Combined Modeling Stack	TODB M 506639.16 5043778.1 62.70	80.00 24.38	3.00 0.91	16,125.00 7.61	2,281.22	38.02 11.5				00 6.44E-01 2.39E+00 6.44E-01 2.3		
RCTO	D1C-VOC138-1-120	TODC_01 506742.79 5043430.5 62.70	120.00 36.58	1.00 0.30	3,400.00 1.60	4,329.01	72.15 21.9				00 5.40E-02 2.01E-01 5.40E-02 2.0		
RCTO	D1C-VOC138-2-120	TODC_02 506742.68 5043432.2 62.70		1.00 0.30	3,400.00 1.60	4,329.01	72.15 21.9				00 5.40E-02 2.01E-01 5.40E-02 2.0		
RCTO	D1C-VOC138-3-120	TODC_03 506744.57 5043432.3 62.70	120.00 36.58	1.00 0.30	3,400.00 1.60	4,329.01	72.15 21.9				00 5.40E-02 2.01E-01 5.40E-02 2.0		
RCTO RCTO	VOC-138-1-120 VOC-138-2-120	TODD_01 506467.03 5043403.9 62.70 TODD 02 506467.03 5043403.9 62.70	89.00 27.13 89.00 27.13	1.50 0.46 1.50 0.46	3,400.00 1.60 3,400.00 1.60	1,924.01 1,924.01	32.07 9.7 32.07 9.7				00		
RCTO	VOC-136-2-120 VOC-138-3-120	TODD 03 506467.03 5043403.9 62.70			3,400.00 1.60	1,924.01	32.07 9.7 32.07 9.7				00 1.46E-01 5.36E-01 1.46E-01 5.3		
RCTO	VOC-138-4-120	TODD_04 506467.03 5043403.9 62.70	89.00 27.13	1.50 0.46	3,400.00 1.60	1,924.01	32.07 9.7				00 1.46E-01 5.36E-01 1.46E-01 5.3		
RCTO	VOC-138-5-120	TODD_05 506467.03 5043403.9 62.70	89.00 27.13	3.00 0.91	16,125.00 7.61	2,281.22	38.02 11.5	59 650.00 6	6.48 7.84E-01 3.44	E+00 5.41E-01 2.37E+0	00 1.61E-01 6.01E-01 1.61E-01 6.0	01E-01 1.61E-01 6.01E-0	01 2.04E-02 8.93E-02
RCTO	VOC-138-6-120	TODD_06 506467.03 5043403.9 62.70	89.00 27.13		16,125.00 7.61	2,281.22	38.02 11.5				00 1.61E-01 6.01E-01 1.61E-01 6.0		
RCTO	D1XM1-VOC138-1-20	TOM1_01 506337.39 5043349.8 62.70	120.00 36.58	2.00 0.61	6,400.00 3.02	2,037.18	33.95 10.3				00 2.75E-02 1.07E-01 2.75E-02 1.0		
RCTO RCTO	D1XM1-VOC138-2-20 D1XM1-VOC138-3-20	TOM1_02 506330.48 5043347.1 62.70 TOM1 03 506323.67 5043344.1 62.70	120.00 36.58 120.00 36.58	2.00 0.61 2.00 0.61	6,400.00 3.02 6,400.00 3.02	2,037.18 2,037.18	33.95 10.3 33.95 10.3				00 2.75E-02 1.07E-01 2.75E-02 1.0 00 2.75E-02 1.07E-01 2.75E-02 1.0		
RCTO	D1XM1-VOC138-4-20	TOM1 04 506317.28 5043340.9 62.70	120.00 36.58		6,400.00 3.02	2,037.18	33.95 10.3				00 2.75E-02 1.07E-01 2.75E-02 1.0		
RCTO	D1XM1-VOC138-5-20 (Anguil RCTO D1X-1)	TWM1 01 506247.98 5043260.6 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.7				00 1.61E-01 5.92E-01 1.61E-01 5.9		
RCTO	D1XM1-VOC138-6-20 (Anguil RCTO D1X-2)	TWM1_02 506255.54 5043261.9 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.7	6 650.00 6	6.48 7.84E-01 3.44	E+00 5.41E-01 2.37E+0	00 4.27E-01 1.57E+00 4.27E-01 1.5	7E+00 4.27E-01 1.57E+0	00 2.04E-02 8.93E-02
RCTO	D1XM1-VOC138-7-20 (Anguil RCTO D1X-3)	TWM1_03 506262.23 5043264.7 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.70				00 4.27E-01 1.57E+00 4.27E-01 1.5		
RCTO	D1XM1-VOC138-8-20 (Anguil RCTO D1X-4)	TWM1_04 506261.15 5043267.8 62.70			13,575.00 6.41	1,920.47	32.01 9.70 32.01 9.70				00 1.61E-01 5.92E-01 1.61E-01 5.9		
RCTO RCTO	Anguil RCTO D1XM2-1 Anguil RCTO D1XM2-2	TIM2_06 506166.5 5043258 62.70 TIM2_07 506173.37 5043260.9 62.70	120.00 36.58 120.00 36.58		13,575.00 6.41 13,575.00 6.41	1,920.47 1,920.47	32.01 9.70 32.01 9.70				00		
RCTO	Anguil RCTO D1XM2-2 Anguil RCTO D1XM2-3	TIM2_07 506173.37 5043260.9 62.70 TIM2_08 506180.17 5043264.1 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.7				0.00E+00 0.00E+00 0.00E+00 0.00 00 4.51E-01 1.66E+00 4.51E-01 1.6		
RCTO	Anguil RCTO D1XM2-4	TIM2_09 506186.76 5043267 62.70	120.00 36.58		13,575.00 6.41	1,920.47	32.01 9.7				00 0.00E+00 0.00E+00 0.00E+00 0.0		
RCTO	Anguil RCTO D1XM2-5	TIM2_01 506160.52 5043255.2 62.70	120.00 36.58		13,575.00 6.41	1,920.47	32.01 9.7		6.48 0.00E+00 0.00	E+00 0.00E+00 0.00E+0	0.00E+00 0.00E+00 0.00E+00 0.0	0E+00 0.00E+00 0.00E+0	00 0.00E+00 0.00E+00
RCTO	D1XM3-VOC138-1-20	TIM3_01 506014.27 5043196.1 62.70			13,575.00 6.41	1,920.47	32.01 9.7				00 4.51E-01 1.66E+00 4.51E-01 1.6		
RCTO RCTO	D1XM3-VOC138-2-20 D1XM3-VOC138-3-20	TIM3_02 506018.88 5043198 62.70 TIM3_03 506023.5 5043200 62.70	120.00 36.58 120.00 36.58	3.00 0.91 3.00 0.91	13,575.00 6.41 13,575.00 6.41	1,920.47 1,920.47	32.01 9.70 32.01 9.70				00		
RCTO	D1XM3-VOC138-3-20 D1XM3-VOC138-4-20	TIM3 04 506028.11 5043201.9 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.7				0.00E+00 0.00E+00 0.00E+00 0.00 00 0.00E+00 0.00E+00 0.00E+00 0.0		
RCTO	D1XM3-VOC138-5-20	TIM3_05 506032.72 5043203.8 62.70	120.00 36.58	3.00 0.91	13,575.00 6.41	1,920.47	32.01 9.7				00 0.00E+00 0.00E+00 0.00E+00 0.0		
													•

Intel Corporation	- Stack	Information
Equipment Typ	_	

Intel Corporation - Stack	Information		04	OtI- Dit	A -15	-l. El D-t-		041-1/-1		Ota ala Tanan		1					
		LITM LITM Florestion	Stack Height	Stack Diameter	Adjusted Stac	ck Flow Rate		Stack Velocity		Stack Tempe	erature	NOx	CO	PM	PM ₁₀	PM _{2.5}	SO ₂
Equipment Type	Equipment ID	Stack ID UTM UTM Elevation Easting Northing (m)	(ft) (m)	(ft) (m)	(ft ³ /min)	(m ³ /s)	(ft/min)	(ft/s)	(m/s)	(°F)	(K)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)
RCTO	F15-VOC-138-2-10	TOF15_02 508892.79 5037747.4 69.40	68.00 20.73	1.25 0.38	3,400.00	1.60	2,770.57	46.18	14.07	650.00	616.48	1.96E-01 8.59E-01	1.86E+00 8.16E+00	1.69E-02 6.51E-	02 1.69E-02 6.51E-02	1.69E-02 6.51E-02	2 5.10E-03 2.23E-02
RCTO	F15-VOC-138-3-10	TOF15_03 508886.63 5037752.4 69.40	68.00 20.73	1.37 0.42	3,400.00	1.60	2,290.82	38.18	11.64	650.00	616.48				02 1.69E-02 6.51E-02		
RCTO	AL3-VOC-138-10	TOA3_01 508883.2 5037731.6 69.40	68.00 20.73	1.50 0.46	3,400.00	1.60	1,924.01	32.07	9.77	650.00	616.48				02 1.69E-02 6.51E-02		
RCTO RCTO	F15-VOC-138-1-10 F15-VOC-138-4-10	TOF15_01 508898.87 5037746.7 69.40 TOF15 04 508968.04 5037707.5 69.40	68.00 20.73 68.00 20.73	1.17 0.36 1.50 0.46	3,400.00 3,400.00	1.60 1.60	3,173.36 1,924.01	52.89 32.07	16.12 9.77	650.00 650.00	616.48 616.48				02 1.69E-02 6.51E-02 02 1.69E-02 6.51E-02		
EXSC	F20-SC133-1-111	SCDB 01 506735.04 5043689.3 62.70	96.00 29.26	3.50 1.07	35,750.00	16.87	3,715.78	61.93	18.88	64.99	291.48				01 2.51E-01 9.21E-01		
EXSC	F20-SC133-2-111	SCDB_02 506737.08 5043678.6 62.70	96.00 29.26	3.50 1.07	35,750.00	16.87	3,715.78	61.93	18.88	64.99	291.48				01 2.51E-01 9.21E-01		
EXSC	F20-SC133-3-111	SCDB_03 506729.16 5043706.8 62.70	96.00 29.26	3.50 1.07	35,750.00	16.87	3,715.78	61.93	18.88	64.99	291.48				01 2.51E-01 9.21E-01		
EXSC	Combined Modeling Stack	SCDA_01 506882.28 5043833.3 62.70	96.00 29.26 96.00 29.26	3.50 1.07 3.50 1.07	16,500.00	7.79 7.79	1,714.98	28.58	8.71 8.71	64.99 64.99	291.48				01 1.68E-01 6.14E-01		
EXSC EXSC	Combined Modeling Stack Combined Modeling Stack	SCDA_02 506882.28 5043821.7 62.70 SCDA 03 506882.36 5043843.2 62.70	96.00 29.26 96.00 29.26	3.50 1.07	16,500.00 16,500.00	7.79	1,714.98 1,714.98	28.58 28.58	8.71	64.99	291.48 291.48				01 1.68E-01 6.14E-01 01 1.68E-01 6.14E-01		
EXSC	D1C-SC133-1-100	SCDC_01 506691.63 5043427.3 62.70	70.00 21.34	4.00 1.22	32,500.00	15.34	2,586.27	43.10	13.14	64.99	291.48				01 1.78E-01 6.54E-01		
EXSC	D1C-SC133-2-100	SCDC_02 506697.17 5043427.4 62.70	70.00 21.34	4.00 1.22	32,500.00	15.34	2,586.27	43.10	13.14	64.99	291.48				01 1.78E-01 6.54E-01		
EXSC	D1C-SC133-3-100	SCDC_03 506703.15 5043427.6 62.70	70.00 21.34	4.00 1.22 4.00 1.22	32,500.00	15.34	2,586.27 2,586.27	43.10	13.14 13.14	64.99	291.48				01 1.78E-01 6.54E-01		
EXSC EXSC	D1C-SC133-4-100 RB1-SC-133-1-100	SCDC_04 506708.15 5043427.6 62.70 SCRB1 01 506726.97 5043653.5 62.70	70.00 21.34 95.00 28.96	4.00 1.22 4.00 1.22	32,500.00 29,250.00	15.34 13.80	2,327.64	43.10 38.79	11.82	64.99 64.99	291.48 291.48				01 1.78E-01 6.54E-01 01 8.24E-02 3.04E-01		
EXSC	RB1-SC-133-2-100	SCRB1_02 506730.03 5043654.8 62.70	95.00 28.96	2.67 0.81	29,250.00	13.80	5,237.19	87.29	26.60	64.99	291.48				01 8.24E-02 3.04E-01		
EXSC	RB1-SC-133-8-100	SCRB1_03 506734.66 5043654.5 62.70	95.00 28.96	4.00 1.22	35,750.00	16.87	2,844.89	47.41	14.45	64.99	291.48				01 1.02E-01 3.90E-01		
EXSC	RB1-SC-133-4-100	SCRB1_04 506634.89 5043630.8 62.70 SCRB1_06 506632.54 5043628.8 62.70	95.00 28.96	4.00 1.22 2.67 0.81	29,250.00 29,250.00	13.80	2,327.64 5,237.19	38.79 87.29	11.82 26.60	64.99	291.48				01 8.24E-02 3.04E-01		
EXSC EXSC	RB1-SC-133-6-100 RB1-SC-133-7-100	SCRB1_06 506632.54 5043628.8 62.70 SCRB1_05 506635.12 5043628.9 62.70	95.00 28.96 95.00 28.96	2.67 0.81	29,250.00	13.80 13.80	5,237.19	87.29 87.29	26.60	64.99 64.99	291.48 291.48				01 8.24E-02 3.04E-01 01 8.24E-02 3.04E-01		
EXSC	RA4-SC133-1	SWR4_01 506367.2 5043029.3 62.70	85.00 25.91	3.33 1.02	13,000.00	6.14	1,489.69	24.83	7.57	64.99	291.48				02 4.76E-03 5.32E-02		
EXSC	RA4-SC133-2	SWR4_02 506369.56 5043022.8 62.70	85.00 25.91	3.33 1.02	13,000.00	6.14	1,489.69	24.83	7.57	64.99	291.48				02 4.76E-03 5.32E-02		
EXSC	RP1-SC133-1-100	SCRP1_01 506748.15 5043358 62.70	85.00 25.91	4.63 1.41	26,000.00	12.27	1,547.60	25.79	7.86	64.99	291.48				01 2.74E-02 1.03E-01		
EXSC EXSC	RP1-SC133-2-100 RP1-SC133-3-100	SCRP1_02 506747.35 5043347.1 62.70 SCRP1_03 506748.96 5043347.4 62.70	85.00 25.91 85.00 25.91	4.63 1.41 4.63 1.41	26,000.00 27,300.00	12.27 12.88	1,547.60 1,624.98	25.79 27.08	7.86 8.25	64.99 64.99	291.48 291.48				01 2.74E-02 1.03E-01 01 2.84E-02 1.07E-01		
EXSC	SC-133-1-100	SCDD 01 506493.82 5043419.7 62.70	89.00 27.13	3.33 1.02	32,500.00	15.34	3,724.23	62.07	18.92	64.99	291.48				01 1.78E-01 6.54E-01		
EXSC	SC-133-2-100	SCDD_02 506494.8 5043423 62.70	89.00 27.13	3.33 1.02	32,500.00	15.34	3,724.23	62.07	18.92	64.99	291.48	9.10E-01 3.32E+00	1.71E+00 6.23E+00	1.81E-01 6.67E-	01 1.78E-01 6.54E-01	1.73E-01 6.32E-0	1 7.70E-02 2.81E-01
EXSC	SC-133-3-100	SCDD_03 506498.02 5043421.2 62.70	89.00 27.13	3.33 1.02	32,500.00	15.34	3,724.23	62.07	18.92	64.99	291.48				01 1.78E-01 6.54E-01		
EXSC EXSC	SC-133-4-100 SC-133-5-100	SCDD_04 506499.41 5043424.2 62.70 SCDD 05 506503.96 5043424 62.70	89.00 27.13 89.00 27.13	3.33 1.02 3.33 1.02	32,500.00 32,500.00	15.34 15.34	3,724.23 3,724.23	62.07 62.07	18.92 18.92	64.99 64.99	291.48 291.48				01 1.78E-01 6.54E-01 01 1.78E-01 6.54E-01		
EXSC	SC-133-5-100 SC-133-6-100	SCDD_06 506508.76 5043426.4 62.70	89.00 27.13	3.33 1.02	32,500.00	15.34	3,724.23	62.07	18.92	64.99	291.48				01 1.78E-01 6.54E-01 01 1.78E-01 6.54E-01		
EXSC	D1X-SC133-1-00	SWM1_01 506313.59 5043328 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 1.65E-01 6.09E-01		
EXSC	D1X-SC133-2-00	SWM1_02 506307.36 5043325.1 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 1.65E-01 6.09E-01		
EXSC EXSC	D1X-SC133-3-00 D1X-SC133-4-00	SCM1_01 506292.25 5043318.6 62.70 SCM1 02 506280.58 5043313.5 62.70	120.00 36.58 120.00 36.58	6.17 1.88 6.17 1.88	71,250.00 71,250.00	33.63 33.63	2,385.58 2,385.58	39.76 39.76	12.12 12.12	64.99 64.99	291.48 291.48				00 3.54E-01 1.79E+00 00 3.54E-01 1.79E+00		
EXSC	D1X-SC133-5-00	SWM1 03 506273.97 5043310.3 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				00 3.54E-01 1.79E+00 01 1.65E-01 6.09E-01		
EXSC	D1XM2-SC133-2-00	SIM2_01 506153.88 5043255.6 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				00 2.68E-01 9.88E-01		
EXSC	D1XM2-SC133-3-00	SIM2_02 506147.47 5043252.9 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				00 2.68E-01 9.88E-01		
EXSC	D1XM2-SC133-4-00	SIM2_03 506133.96 5043247.2 62.70	120.00 36.58	6.17 1.88 6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				00 2.68E-01 9.88E-01		
EXSC EXSC	D1XM2-SC133-5-00 D1XM3-SC133-1-00	SIM2_04 506122.35 5043242.5 62.70 SIM3_01 505998.62 5043191.6 62.70	120.00 36.58 120.00 36.58	6.17 1.88 6.17 1.88	71,250.00 71,250.00	33.63 33.63	2,385.58 2,385.58	39.76 39.76	12.12 12.12	64.99 64.99	291.48 291.48				00 2.68E-01 9.88E-01 01 2.16E-01 7.99E-01		
EXSC	D1XM3-SC133-2-00	SIM3_02 505991.04 5043188.6 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 2.16E-01 7.99E-01		
EXSC	D1XM3-SC133-3-00	SIM3_03 505984.47 5043185.6 62.70	120.00 36.58	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 2.16E-01 7.99E-01		
EXSC	D1XM3-SC133-4-00	SIM3_04 505977.82 5043183 62.70 SIM3_05 505971.18 5043180.4 62.70	129.99 39.62 129.99 39.62	6.17 1.88 6.17 1.88	71,250.00 71,250.00	33.63 33.63	2,385.58 2,385.58	39.76 39.76	12.12 12.12	64.99 64.99	291.48 291.48				01 2.16E-01 7.99E-01		
EXSC EXSC	D1XM3-SC133-5-00 D1XM4-SC133-1-00	SIM3_05 505971.18 5043180.4 62.70 SCM4 01 506068.7 5042972.3 62.70	129.99 39.62	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 2.16E-01 7.99E-01 01 1.48E-01 5.48E-01		
EXSC	D1XM4-SC133-2-00	SCM4_02 506069.8 5042969.6 62.70	129.99 39.62	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 1.48E-01 5.48E-01		
EXSC	D1XM4-SC133-3-00	SCM4_03 506070.9 5042966.8 62.70	129.99 39.62	6.17 1.88	71,250.00	33.63	2,385.58	39.76	12.12	64.99	291.48				01 1.48E-01 5.48E-01		
EXSC EXSC	MSB-SC133-1	SCMB1_01 506416.14 5043153.3 62.70 SCMB1_02 506420.41 5043143 62.70	144.00 43.89 144.00 43.89	5.83 1.78 5.83 1.78	71,250.00	33.63 33.63	2,666.01 2,666.01	44.43 44.43	13.54 13.54	64.99 64.99	291.48 291.48				01 3.46E-02 1.33E-01		
EXSC	MSB-SC133-2 MSB-SC133-3	SCMB1_02 506420.41 5043143 62.70 SCMB1_03 506425.25 5043133.9 62.70	144.00 43.89	5.83 1.78	71,250.00 71,250.00	33.63	2,666.01	44.43	13.54	64.99	291.48				01 3.46E-02 1.33E-01 01 3.46E-02 1.33E-01		
EXSC	F15-SC7-1-1	SCF15_01 508970.09 5037706.6 69.40	73.00 22.25	5.00 1.52	39,000.00	18.41	1,986.25	33.10	10.09	64.99	291.48				01 1.66E-01 6.09E-01		
EXSC	F15-SC7-1-2	SCF15_02 508953.09 5037716.1 69.40	73.00 22.25	5.00 1.52	39,000.00	18.41	1,986.25	33.10	10.09	64.99	291.48				01 1.66E-01 6.09E-01		
EXSC EXSC	F15-SC7-1-3 F15-SC7-1-4	SCF15_03 508941.71 5037722.6 69.40 SCF15_04 508924.01 5037732.8 69.40	73.00 22.25 73.00 22.25	5.00 1.52 5.00 1.52	55,250.00 55,250.00	26.08 26.08	2,813.86 2,813.86	46.90 46.90	14.29 14.29	64.99 64.99	291.48 291.48				01 1.68E-01 6.19E-01 01 1.68E-01 6.19E-01		
EXSC	F15-SC7-1-5	SCF15 05 508911.28 5037740.1 69.40	73.00 22.25	5.00 1.52	39,000.00	18.41	1,986.25	33.10	10.09	64.99	291.48				01 1.66E-01 6.09E-01		
EXSC	F15-SC7-1-6	SCF15_06 508895.74 5037748.8 69.40	73.00 22.25	5.00 1.52	39,000.00	18.41	1,986.25	33.10	10.09	64.99	291.48				01 1.66E-01 6.09E-01		
EXAM	Combined Modeling Stack	AMDC_01 506695.47 5043411.2 62.70	65.00 19.81	2.17 0.66	11,700.00	5.52	3,173.30	52.89	16.12	64.99	291.48				01 2.81E-02 1.03E-01		
EXAM EXAM	Combined Modeling Stack Combined Modeling Stack	AMDC_02 506698.1 5043411.1 62.70 AMDC 03 506701.33 5043411.4 62.70	65.00 19.81 65.00 19.81	2.17 0.66 2.17 0.66	11,700.00 11,700.00	5.52 5.52	3,173.30 3,173.30	52.89 52.89	16.12 16.12	64.99 64.99	291.48 291.48				01 2.81E-02 1.03E-01 01 2.81E-02 1.03E-01		
EXAM	Combined Modeling Stack	AMDC_04 506703.89 5043411.1 62.70	65.00 19.81	2.17 0.66	11,700.00	5.52	3,173.30	52.89	16.12	64.99	291.48				01 2.81E-02 1.03E-01		
EXAM	Combined Modeling Stack	AMDC_05 506707.26 5043411.2 62.70	65.00 19.81	2.17 0.66	11,700.00	5.52	3,173.30	52.89	16.12	64.99	291.48	1.44E-01 5.25E-01	2.70E-01 9.85E-01	3.76E-02 1.65E-	01 2.81E-02 1.03E-01	2.74E-02 1.00E-0	1 2.57E-03 9.36E-03
EXAM	Combined Modeling Stack	AMRB1_AM 506629.85 5043628.4 62.70	95.00 28.96	3.00 0.91	40,950.00	19.33	5,793.24	96.55	29.43	64.99	291.48				01 1.69E-01 6.18E-01		
EXAM EXAM	RP1-SC142-1-100 Combined Modeling Stack	AMRP1_01 506690.2 5043352.6 62.70 AMDD 01 506485.47 5043408.8 62.70	85.01 25.91 103.00 31.39	4.63 1.41 2.98 0.91	7,200.00 8,666.66	3.40 4.09	428.39 1,243.29	7.14 20.72	2.18 6.32	64.99 64.99	291.48 291.48				01 1.81E-02 6.62E-02 01 7.86E-02 2.88E-01		
EXAM	Combined Modeling Stack Combined Modeling Stack	AMDD 02 506481.52 5043406.8 62.70	103.00 31.39	2.98 0.91	8,666.66	4.09	1,243.29	20.72	6.32	64.99	291.48				01 7.60E-02 2.66E-01 01 2.62E-02 9.59E-02		
EXAM	Combined Modeling Stack	AMDD_03 506477.28 5043404.9 62.70	103.00 31.39	2.98 0.91	8,666.66	4.09	1,243.29	20.72	6.32	64.99	291.48	1.36E-01 4.96E-01	2.55E-01 9.30E-01	2.81E-02 1.23E-	01 2.62E-02 9.59E-02	2.59E-02 9.44E-02	2 2.42E-03 8.84E-03
EXAM	Combined Modeling Stack	AMDD_04 506601.3 5043283.4 62.70	103.00 31.39	2.98 0.91	21,125.00	9.97	3,030.52	50.51	15.40	64.99	291.48				01 3.47E-02 1.28E-01		
EXAM EXAM	Combined Modeling Stack Combined Modeling Stack	AMDD_05 506602.26 5043281.5 62.70 AMDD 06 506603.37 5043279.8 62.70	103.00 31.39 103.00 31.39	2.98 0.91 2.98 0.91	21,125.00 21,125.00	9.97 9.97	3,030.52 3,030.52	50.51 50.51	15.40 15.40	64.99 64.99	291.48 291.48				01 3.47E-02 1.28E-01 01 3.47E-02 1.28E-01		
EXAM	Combined Modeling Stack Combined Modeling Stack	AMDD 07 506604.53 5043277.9 62.70	103.00 31.39	2.98 0.91	21,125.00	9.97	3,030.52	50.51	15.40	64.99	291.48				01 3.47E-02 1.28E-01		
EXAM	D1X-SC142-1-11	AMM1_01 506346.36 5043324.1 62.70	120.00 36.58	4.50 1.37	30,000.00	14.16	1,886.28	31.44	9.58	64.99	291.48	5.41E-01 1.97E+00	1.01E+00 3.70E+00	1.19E-01 5.19E-	01 1.05E-01 3.83E-01	1.03E-01 3.76E-0	1 9.64E-03 3.52E-02
EXAM	D1X-SC142-2-11	AMM1_02 506344.9 5043327.6 62.70	120.00 36.58	4.50 1.37	30,000.00	14.16	1,886.28	31.44	9.58	64.99	291.48				01 1.05E-01 3.83E-01		
EXAM EXAM	D1X-SC142-3-11 D1X-SC142-4-11	AMM1_03 506343.08 5043332.1 62.70 AMM1_04 506360.5 5043330.8 62.70	120.00 36.58 120.00 36.58	4.50 1.37 4.50 1.37	30,000.00 30,000.00	14.16 14.16	1,886.28 1,886.28	31.44 31.44	9.58 9.58	64.99 64.99	291.48 291.48				01 1.05E-01 3.83E-01 01 1.05E-01 3.83E-01		
EXAM	D1X-SC142-4-11 D1X-SC142-5-00	AMM1 05 506355.3 5043335.7 62.70	120.00 36.58	4.50 1.37	71,250.00	33.63	4,479.92	74.67	9.56 22.76	64.99	291.48				01 1.05E-01 3.83E-01 01 1.07E-01 3.93E-01		
EXAM	D1XM2-SC142-1-00	AMM2_01 506187.92 5043246.9 62.70	120.00 36.58	4.50 1.37	30,000.00	14.16	1,886.28	31.44	9.58	64.99	291.48	4.11E-01 1.50E+00	7.71E-01 2.81E+00	9.80E-02 4.29E-	01 7.99E-02 2.93E-01	7.82E-02 2.86E-0	1 7.32E-03 2.67E-02
EXAM	D1XM2-SC142-2-00	AMM2_02 506186.56 5043250.5 62.70	120.00 36.58	4.50 1.37	30,000.00	14.16	1,886.28	31.44	9.58	64.99	291.48				01 7.99E-02 2.93E-01		
EXAM EXAM	D1XM2-SC142-3-00 D1XM2-SC142-4-00	AMM2_03 506185.06 5043254.2 62.70 AMM2_04 506182.82 5043258 62.70	120.00 36.58 120.00 36.58	4.50 1.37 4.50 1.37	30,000.00 71,250.00	14.16 33.63	1,886.28 4,479.92	31.44 74.67	9.58 22.76	64.99 64.99	291.48 291.48				01 7.99E-02 2.93E-01 01 7.99E-02 2.93E-01		
EXAM	D1XM2-SC142-4-00 D1XM3-SC142-1-00	AMM3 01 505959.16 5043172 62.70	120.00 36.58	6.54 1.99	71,250.00	33.63	2,119.96	35.33	10.77	64.99	291.48				01 7.99E-02 2.93E-01 00 1.96E-01 7.17E-01		
EXAM	D1XM3-SC142-2-00	AMM3_02 505952.13 5043169.5 62.70	120.00 36.58	6.54 1.99	71,250.00	33.63	2,119.96	35.33	10.77	64.99	291.48				00 1.96E-01 7.17E-01		
EXAM	D1XM3-SC142-3-00	AMM3_03 505945.16 5043167 62.70	129.99 39.62	6.54 1.99	71,250.00	33.63	2,119.96	35.33	10.77	64.99	291.48				00 1.96E-01 7.17E-01		
EXAM EXAM	D1XM3-SC142-4-00 Combined Modeling Stack	AMM3_04 505938.19 5043164.5 62.70 AMM4_01 506071.6 5042964.5 62.70	129.99 39.62 129.99 39.62	6.54 1.99 6.17 1.88	71,250.00 28,500.00	33.63 13.45	2,119.96 954.23	35.33 15.90	10.77 4.85	64.99 64.99	291.48 291.48				00 1.96E-01 7.17E-01 01 3.41E-02 1.27E-01		
EXAM	Combined Modeling Stack Combined Modeling Stack	AMM4_01 506071.0 5042964.3 62.70 AMM4_02 506072.9 5042962.1 62.70	129.99 39.62	6.17 1.88	28,500.00	13.45	954.23	15.90	4.85	64.99	291.48				01 3.41E-02 1.27E-01 01 3.41E-02 1.27E-01		
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			Stack Height	St	ack Diameter	Adjusted Stack I	low Rate		Stack Velocity		Stack Temp	erature	NOx	СО	PM	PM ₁₀	PM _{2.5}	SO ₂
oment Type	Equipment ID	Stack ID UTM UTM Elevation Easting Northing (m)	(ft) (m))	(ft) (m)	(ft³/min)	(m ³ /s)	(ft/min)	(ft/s)	(m/s)	(°F)	(K)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr)
EXAM	Combined Modeling Stack	AMM4_03 506074.19 5042959.7 62.70	129.99 39.6		.17 1.88	28,500.00 193.25	13.45 0.09	954.23	15.90	4.85	64.99	291.48			00 7.94E-02 3.48E-0			
EATER EATER	RA3 Combined Modeling Stack RS4 Combined Modeling Stack	HER3_M 506679.8 5043176.5 62.70 HERS4_M 505951 5043852.3 62.70	82.00 24.9 60.00 18.2		.50 0.15 .50 0.15	193.25	0.09	984.23 984.23	16.40 16.40	5.00 5.00	300.00 300.00	422.04 422.04			00 3.90E-02 8.55E-0 00 1.01E-02 2.21E-0			
EATER EATER	RS5 Combined Modeling Stack RS6 Combined Modeling Stack	HERS5_M 505915.2 5043725.7 62.70 HERS6_M 505939.9 5043588.1 62.70	60.00 18.2		.50 0.15 .50 0.15	193.25	0.09	984.23	16.40 16.40	5.00 5.00	300.00	422.04			00 1.81E-02 3.97E-0			
EATER	Lunch Tent Combined Modeling Stack	HERS6_M 505939.9 5043588.1 62.70 HELT4_M 506443.2 5043804.3 62.70	60.00 18.2 41.00 12.5		.50 0.15	193.25 193.25	0.09 0.09	984.23 984.23	16.40	5.00	300.00 300.00	422.04 422.04			00 7.72E-03 1.69E-0 00 7.02E-03 1.54E-0			
ATER	Aloha Combined Modeling Stack	HEAL_M 509091.1 5037889 69.40	46.00 14.0		.50 0.15	193.25	0.09	984.23	16.40	5.00	300.00	422.04			00 7.21E-03 1.58E-0			
ATER ATER	RS2 Combined Modeling Stack RA1 Combined Modeling Stack	HERS2_M 506491.4 5043738.9 62.70 HERA1 M 506835.9 5043715.5 62.70	43.00 13.1 54.00 16.4		.50 0.15 .50 0.15	193.25 193.25	0.09 0.09	984.23 984.23	16.40 16.40	5.00 5.00	300.00 300.00	422.04 422.04			00 7.84E-03 1.72E-0 02 3.68E-04 8.05E-0			
ATER	CUB 4 Heater	HEC4_M 506404.21 5043465.8 62.70	79.00 24.0	08 0	.50 0.15	193.25	0.09	984.23	16.40	5.00	300.00	422.04	2.94E-02 6.44E-0	2 2.47E-02 1.08E-0	01 7.35E-04 1.61E-0	3 7.35E-04 1.61E-03	3 7.35E-04 1.61E-0	3 7.65E-04 1
EATER EATER	PUB1 Heater CUB 5 Heater	HEPB1_M 506212.9 5043427.9 62.70 HEC5 M 505862 5043464.8 62.70	104.00 31.7 73.50 22.4		.50 0.15 .50 0.15	193.25 193.25	0.09 0.09	984.23 984.23	16.40 16.40	5.00 5.00	300.00 300.00	422.04 422.04			01 3.68E-03 8.05E-0 01 3.68E-03 8.05E-0			
MXW	CUB3 - OX293-0-70	TMXW_01 506292.12 5043551.6 62.70	28.00 8.5	3 1	.25 0.38	4,094.17	1.93	3,336.23	55.60	16.95	250.00	394.26	3.40E-01 1.49E+0	0 3.15E-02 1.38E-0	01 2.57E-03 1.13E-0	2 2.57E-03 1.13E-02	2 2.57E-03 1.13E-0	2.57E-03
MXW MXW	PUB1A-OX293-0-70 PUB1B-OX293-0-70	TMXW_02 506166.41 5043393 62.70 TMXW 03 506100.6 5043326.9 62.70	28.00 8.5 28.00 8.5		.25 0.38 .25 0.38	4,094.17 4,094.17	1.93 1.93	3,336.23 3,336.23	55.60 55.60	16.95 16.95	250.00 250.00	394.26 394.26			01 2.57E-03 1.13E-0 01 2.57E-03 1.13E-0			
MXW	PUB1C-OX293-0-70	TMXW_04 506116.6 5043305.7 62.70	28.00 8.5	3 1	.25 0.38	4,094.17	1.93	3,336.23	55.60	16.95	250.00	394.26	3.40E-01 1.49E+0	0 3.15E-02 1.38E-0	01 2.57E-03 1.13E-0	2 2.57E-03 1.13E-02	2 2.57E-03 1.13E-0	2.57E-03
MXW MXW	PUB1D-OX293-0-70 PUB1E-OX293-0-70	TMXW_05 506025.2 5043301.6 62.70 TMXW 06 506035.3 5043283.6 62.70	28.00 8.5 28.00 8.5		.25 0.38 .25 0.38	4,094.17 4,094.17	1.93 1.93	3,336.23 3,336.23	55.60 55.60	16.95 16.95	250.00 250.00	394.26 394.26			01 2.57E-03 1.13E-0 01 2.57E-03 1.13E-0			
MXW	PUB1F-OX293-0-70	TMXW_07 505992.2 5043284.9 62.70	28.00 8.5	3 1	.25 0.38	4,094.17	1.93	3,336.23	55.60	16.95	250.00	394.26			01 2.57E-03 1.13E-0			
MXW MXW	CUB2-OX293-0-70 CUB3 - OX293B-0-70	TMXW_08 506533.24 5043483.2 62.70 TMC3 02 506300.9 5043548.9 62.70	38.29 11.6 28.00 8.5		.25 0.38 .25 0.38	4,094.17 4,094.17	1.93 1.93	3,336.23 3,336.23	55.60 55.60	16.95 16.95	250.00 250.00	394.26 394.26			01 2.57E-03 1.13E-0 00 0.00E+00 0.00E+0			
DLTOW	RAC4-CT114-1	CTC4_01 506401.76 5043561.2 62.70	51.00 15.5		3.00 8.53	588,154.79	277.58	955.18	15.92	4.85	68.00	293.15			00 1.42E-02 6.21E-0			
OLTOW	RAC4-CT114-2	CTC4_02 506401.71 5043576.1 62.70	51.00 15.5		8.00 8.53	588,154.79	277.58	955.18	15.92	4.85	68.00	293.15			00 1.42E-02 6.21E-0			
OLTOW OLTOW	RAC4-CT114-3 RAC4-CT114-4	CTC4_03 506414.44 5043561.5 62.70 CTC4 04 506414.44 5043576.3 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	588,154.79 588,154.79	277.58 277.58	955.18 955.18	15.92 15.92	4.85 4.85	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
OLTOW	RAC4-CT114-5	CTC4_05 506427.26 5043561.4 62.70	51.00 15.5	54 2	8.00 8.53	588,154.79	277.58	955.18	15.92	4.85	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.30E-02 5.07E-02	2 1.53E-04 2.24E-0	0.00E+00
LTOW LTOW	RAC4-CT114-6 RAC4-CT114-7	CTC4_06 506427.31 5043576.2 62.70 CTC4_07 506440.14 5043561.6 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	588,154.79 588,154.79	277.58 277.58	955.18 955.18	15.92 15.92	4.85 4.85	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC4-CT114-8	CTC4_08 506439.99 5043576.2 62.70	51.00 15.5	54 2	8.00 8.53	588,154.79	277.58	955.18	15.92	4.85	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.30E-02 5.07E-02	2 1.53E-04 2.24E-0	0.00E+00
LTOW LTOW	RAC4-CT114-9 RAC4-CT114-10	CTC4_09 506452.81 5043561.7 62.70 CTC4_10 506452.76 5043576.5 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	588,154.79 588,154.79	277.58 277.58	955.18 955.18	15.92 15.92	4.85 4.85	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC4-CT114-11	CTC4_11 506465.78 5043561.8 62.70	51.00 15.5	54 2	8.00 8.53	588,154.79	277.58	955.18	15.92	4.85	68.00	293.15			00 1.42E-02 6.21E-0			
.TOW .TOW	RAC4-CT114-12 RAC4-CT114-13	CTC4_12 506465.78 5043576.5 62.70 CTC4_13 506396.77 5043625.1 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	588,154.79 1,059,622.00	277.58 500.09	955.18 1,720.86	15.92 28.68	4.85 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
_TOW	RAC4-CT114-13	CTC4_13 506396.77 5043023.1 62.70 CTC4_14 506396.92 5043610.5 62.70	51.00 15.5		3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
TOW	RAC4-CT114-15	CTC4_15 506409.43 5043625.2 62.70 CTC4_16 506409.78 5043610.5 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0			
LTOW LTOW	RAC4-CT114-16 RAC4-CT114-17	CTC4_10 506409.78 5043610.5 62.70 CTC4_17 506422.09 5043625.2 62.70	51.00 15.5		3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC4-CT114-18	CTC4_18 506422.44 5043610.5 62.70	51.00 15.5		8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0			
OLTOW OLTOW	RAC4-CT114-19 RAC4-CT114-20	CTC4_19 506434.65 5043625.2 62.70 CTC4_20 506435 5043610.5 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC5-CT115-1	CTC5_01 505911.75 5043470.7 62.70	51.00 15.5		8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0			
OLTOW OLTOW	RAC5-CT115-2 RAC5-CT115-3	CTC5_02 505911.42 5043486 62.70 CTC5_03 505924.57 5043470.7 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC5-CT115-4	CTC5_04 505924.24 5043486 62.70	51.00 15.5		3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.30E-02 5.07E-02	2 1.53E-04 2.24E-0	0.00E+00
LTOW LTOW	RAC5-CT115-5 RAC5-CT115-6	CTC5_05 505937.39 5043470.7 62.70 CTC5 06 505937.06 5043486 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC5-CT115-7	CTC5_07 505950.21 5043470.7 62.70	51.00 15.5	54 2	8.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.30E-02 5.07E-02	2 1.53E-04 2.24E-0	0.00E+00
LTOW	RAC5-CT115-8 RAC5-CT115-9	CTC5_08 505949.88 5043486 62.70 CTC5_09 505963.03 5043470.7 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC5-CT115-9	CTC5_10 505962.7 5043486 62.70	51.00 15.5		3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0			
OLTOW OLTOW	RAC5-CT115-11 RAC5-CT115-12	CTC5_11 505975.85 5043470.7 62.70 CTC5 12 505975.52 5043486 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74 8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RAC5-CT115-12 RAC5-CT115-13	CTC5_12 505975.52 5043480 62.70 CTC5_13 505988.67 5043470.7 62.70	51.00 15.5		3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
OLTOW	RAC5-CT115-14	CTC5_14 505988.34 5043486 62.70 CTC5_15 506001.49 5043470.7 62.70	51.00 15.5 51.00 15.5		3.00 8.53 3.00 8.53	1,059,622.00	500.09	1,720.86	28.68	8.74 8.74	68.00	293.15			00 1.42E-02 6.21E-0			
LTOW LTOW	RAC5-CT115-15 RAC5-CT115-16	CTC5_15 506001.49 5043470.7 62.70 CTC5_16 506001.16 5043486 62.70	51.00 15.5 51.00 15.5		3.00 8.53	1,059,622.00 1,059,622.00	500.09 500.09	1,720.86 1,720.86	28.68 28.68	8.74	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
_TOW	RAC5-CT115-17	CTC5_17 506014.31 5043470.7 62.70	51.00 15.5		8.53	1,059,622.00	500.09	1,720.86	28.68	8.74	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.30E-02 5.07E-02	2 1.53E-04 2.24E-0	0.00E+00
LTOW LTOW	CT-114-1-210 CT-114-2-210	CTC3_01 506294.64 5043534.7 62.70 CTC3_02 506306.48 5043534.7 62.70	17.00 5.15 17.00 5.15		1.67 3.56 1.67 3.56	362,108.87 362,108.87	170.90 170.90	3,387.32 3,387.32	56.46 56.46	17.21 17.21	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	CT-114-3-210	CTC3_03 506318.32 5043534.8 62.70	17.00 5.1	8 1	1.67 3.56	362,108.87	170.90	3,387.32	56.46	17.21	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 6.17E-02 7.28E-02	2 2.19E-04 3.21E-0	0.00E+00
_TOW _TOW	CT-114-4-210 CT-114-5-210	CTC3_04 506330.31 5043535 62.70 CTC3_05 506342.15 5043535.2 62.70	17.00 5.15 17.00 5.15		1.67 3.56 1.67 3.56	362,108.87 362,108.87	170.90 170.90	3,387.32 3,387.32	56.46 56.46	17.21 17.21	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
TOW	CUB3-CT114-21-10	CTC3_06 506305.08 5043550.7 62.70	17.00 5.1	8 1	1.67 3.56	362,108.87	170.90	3,387.32	56.46	17.21	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 6.17E-02 7.28E-02	2 2.19E-04 3.21E-0	0.00E+00
TOW TOW	CUB3-CT114-22-10 CUB3-CT114-23-10	CTC3_07 506316.29 5043550.5 62.70 CTC3_08 506316.29 5043550.5 62.70	17.00 5.15 17.00 5.15		1.67 3.56 1.67 3.56	362,108.87 362,108.87	170.90 170.90	3,387.32 3,387.32	56.46 56.46	17.21 17.21	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
TOW.	CUB3-CT114-23-10	CTC3_09 506316.29 5043550.5 62.70	17.00 5.1		1.67 3.56	362,108.87	170.90	3,387.32	56.46	17.21	68.00	293.15			00 1.42E-02 6.21E-0			
LTOW	CUB3-CT114-25-10	CTC3_10 506327.66 5043550.5 62.70	17.00 5.16 17.00 5.16		1.67 3.56 1.67 3.56	362,108.87	170.90 170.90	3,387.32 3,387.32	56.46 56.46	17.21	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 6.17E-02 7.28E-02	2 2.19E-04 3.21E-0	0.00E+00
TOW TOW	CUB3-CT114-26-10 RP1-CT114-1-200	CTC3_11 506327.66 5043550.5 62.70 CTRP1_01 506658.54 5043337.5 62.70	17.00 5.15 45.00 13.7		0.00 3.05	362,108.87 187,464.51	170.90 88.47	3,387.32 2,386.87	39.78	17.21 12.13	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
TOW	RP1-CT114-2-200	CTRP1_02 506658.26 5043328.7 62.70	45.00 13.7		0.00 3.05	187,464.51	88.47	2,386.87	39.78	12.13	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 3.08E-02 3.63E-02	2 1.10E-04 1.60E-0	0.00E+00
LTOW LTOW	RP1-CT114-3-00 RA4-CT113-1-10	CTRP1_03 506658.26 5043319.9 62.70 CTR4 01 506357.82 5043059.1 62.70	45.00 13.7 73.00 22.2		0.00 3.05 2.00 3.66	187,464.51 332,598.33	88.47 156.97	2,386.87 2,940.81	39.78 49.01	12.13 14.94	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RA4-CT113-2-10	CTR4_02 506359.29 5043055.7 62.70	73.00 22.2	25 1:	2.00 3.66	332,598.33	156.97	2,940.81	49.01	14.94	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.49E-02 5.29E-02	2 1.60E-04 2.34E-0	0.00E+00
LTOW LTOW	RA4-CT113-3-10 RA4-CT113-4-10	CTR4_03 506363.54 5043061.7 62.70 CTR4_04 506364.93 5043058.1 62.70	73.00 22.2 73.00 22.2		2.00 3.66 2.00 3.66	332,598.33 332,598.33	156.97 156.97	2,940.81 2,940.81	49.01 49.01	14.94 14.94	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RA4-CT113-4-10 RA4-CT113-5-10	CTR4_05 506370.63 5043063 62.70	73.00 22.2	25 1:	2.00 3.66	332,598.33	156.97	2,940.81	49.01	14.94	68.00	293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	RA4-CT113-6-10	CTR4_06 506375.5 5043065 62.70	73.00 22.2	25 1:	2.00 3.66	332,598.33	156.97	2,940.81	49.01	14.94	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 4.49E-02 5.29E-02	2 1.60E-04 2.34E-0	0.00E+00
LTOW LTOW	CUB2-CT114-1-210 CUB2-CT114-2-210	CTC2_01 506518.07 5043561.1 62.70 CTC2_02 506518.39 5043575.8 62.70	29.00 8.8 29.00 8.8		1.00 3.35 1.00 3.35	141,807.83 141,807.83	66.93 66.93	1,492.19 1,492.19	24.87 24.87	7.58 7.58	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
LTOW	CUB2-CT114-3-210	CTC2_03 506514.79 5043561.1 62.70	29.00 8.8	4 1	1.00 3.35	141,807.83	66.93	1,492.19	24.87	7.58	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 1.01E-01 7.56E-02	2 3.59E-04 3.34E-0	0.00E+00
LTOW LTOW	CUB2-CT114-4-210 CUB2-CT114-5-210	CTC2_04 506514.89 5043575.7 62.70 CTC2_05 506506.05 5043561.1 62.70	29.00 8.8 29.00 8.8		1.00 3.35 1.00 3.35	141,807.83 141,807.83	66.93 66.93	1,492.19 1,492.19	24.87 24.87	7.58 7.58	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
DLTOW	CUB2-CT114-6-210	CTC2_06 506506.26 5043575.6 62.70	29.00 8.8	4 1	1.00 3.35	141,807.83	66.93	1,492.19	24.87	7.58	68.00	293.15	0.00E+00 0.00E+0	0 0.00E+00 0.00E+	00 1.42E-02 6.21E-0	2 1.01E-01 7.56E-02	2 3.59E-04 3.34E-0	0.00E+00
OLTOW OLTOW	CUB2-CT114-7-210 CUB2-CT114-8-210	CTC2_07 506502.65 5043561 62.70 CTC2_08 506502.87 5043575.6 62.70	29.00 8.8 29.00 8.8		1.00 3.35 1.00 3.35	141,807.83 141,807.83	66.93 66.93	1,492.19 1,492.19	24.87 24.87	7.58 7.58	68.00 68.00	293.15 293.15			00 1.42E-02 6.21E-0 00 1.42E-02 6.21E-0			
DLTOW	CUB2-CT114-6-210 CUB2-CT114-9-210	CTC2_08 500302.67 5043373.6 62.70 CTC2_09 506494.34 5043560.9 62.70	29.00 8.8		1.00 3.35	141,807.83	66.93	1,492.19	24.87	7.58	68.00	293.15	U.UULTU		L-UL U.LIE-U		_ 0.0007 0.040	

			Stack Height	Stack Diameter	Adjusted Stack F	Flow Rate	Stack Velocity		Stack Temperature	NOx	CO	PM	PM ₁₀	PM _{2.5}	SO ₂
nent Type	Equipment ID	Stack ID UTM UTM Elevation Easting Northing (m)	(ft) (m)	(ft) (m)	(ft³/min)	(m³/s) (ft/min)	(ft/s)	(m/s)	(°F) (K	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr)
DLTOW	CUB2-CT114-10-210	CTC2_10 506494.34 5043575.6 62.70	31.00 9.45	11.00 3.35	191,818.53	90.53 2,018.4		10.25	68.00 293		-00 0.00E+00 0.00E+00				
OLTOW OLTOW	CUB2-CT114-11-10 CUB2-CT114-12-10	CTC2_11 506518.1 5043590.2 62.70 CTC2 12 506514.87 5043590.1 62.70	31.00 9.45 31.00 9.45	11.00 3.35 11.00 3.35	383,697.53 191,697.58	181.08 4,037.5 90.47 2,017.10		20.51 10.25	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00		.02 1.04E-01 7.56E-02		1 0.00E+00 0
DLTOW	CUB2-CT114-13-10	CTC2_13 506505.8 5043590 62.70	31.00 9.45	11.00 3.35	191,818.53	90.53 2,018.4		10.25	68.00 293		-00 0.00E+00 0.00E+00				
OLTOW	CUB2-CT114-14-10	CTC2_14 506494.34 5043590.4 62.70	31.00 9.45	11.00 3.35	191,818.53	90.53 2,018.4		10.25	68.00 293		-00 0.00E+00 0.00E+00				
OLTOW OLTOW	F20-CT114-1-210 F20-CT114-2-210	CTC1_01 506674.28 5043903 62.70 CTC1 02 506681.59 5043904 62.70	29.00 8.84 29.00 8.84	11.00 3.35 11.00 3.35	191,848.76 191,848.76	90.54 2,018.70 90.54 2,018.70		10.26 10.26	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
DLTOW	F20-CT114-3-210	CTC1_03 506685.56 5043904 62.70	29.00 8.84	11.00 3.35	191,848.76	90.54 2,018.70		10.26	68.00 293		-00 0.00E+00 0.00E+00				
DLTOW	F20-CT114-4-210	CTC1_04 506692.61 5043904 62.70	29.00 8.84	11.00 3.35	191,848.76	90.54 2,018.70		10.26	68.00 293		-00 0.00E+00 0.00E+00				
OLTOW OLTOW	F20-CT114-5-210 F20-CT114-6-210	CTC1_05 506696.57 5043904 62.70 CTC1_06 506703.62 5043904 62.70	29.00 8.84 29.00 8.84	11.00 3.35 11.00 3.35	191,848.76 191,848.76	90.54 2,018.70 90.54 2,018.70		10.26 10.26	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
DLTOW	F20-CT114-7-210	CTC1_07 506707.59 5043904 62.70	29.00 8.84	11.00 3.35	191,848.76	90.54 2,018.70	33.65	10.26	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	-02 1.01E-01 7.56E-02	2 3.59E-04 3.34E-04	4 0.00E+00
LTOW LTOW	F20-CT114-8-210	CTC1_08 506714.32 5043904 62.70 CTC1 09 506718.29 5043904 62.70	29.00 8.84 29.00 8.84	11.00 3.35 11.00 3.35	191,848.76 191,848.76	90.54 2,018.70 90.54 2,018.70		10.26 10.26	68.00 293 68.00 293		-00 0.00E+00 0.00E+00				
LTOW	F20-CT114-9-210 F20-CT114-10-210	CTC1_09 500716.29 5043904 62.70	29.00 8.84	11.00 3.35	191,848.76	90.54 2,018.70		10.26	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
DLTOW	F20-CT114-11-210	CTC1_11 506728.63 5043904 62.70	29.00 8.84	11.00 3.35	191,848.76	90.54 2,018.70		10.26	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	·02 1.01E-01 7.56E-02	3.59E-04 3.34E-04	4 0.00E+00
DLTOW DLTOW	N2-CT114-1 N2-CT114-2	CTN2_01 506333.46 5043970.9 62.70 CTN2 02 506210.58 5043933.9 62.70	17.00 5.18 17.00 5.18	11.67 3.56 11.67 3.56	135,155.87 135,155.87	63.79 1,264.30 63.79 1,264.30		6.42 6.42	68.00 293 68.00 293		-00 0.00E+00 0.00E+00				
LTOW	N2-CT114-2 N2-CT114-3	CTN2_02 506210.36 5043933.9 62.70 CTN2_03 506247.14 5044080.6 62.70	17.00 5.18	11.67 3.56	135,155.87	63.79 1,264.3		6.42	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
LTOW	RACB3-CT-114-1-35	CTCB_01 506297 5043636 62.70	17.00 5.18	11.67 3.56	362,108.87	170.90 3,387.3		17.21	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	-02 6.17E-02 7.28E-02	2 2.19E-04 3.21E-04	1 0.00E+00
LTOW	RACB3-CT-114-2-35 RACB3-CT-114-3-35	CTCB_02 506298 5043639 62.70 CTCB 03 506299 5043642 62.70	17.00 5.18 17.00 5.18	11.67 3.56 11.67 3.56	362,108.87 362,108.87	170.90 3,387.33 170.90 3,387.33		17.21 17.21	68.00 293 68.00 293		-00 0.00E+00 0.00E+00				
LTOW	RAWTR1-CH918-1-11	CTCB_03 506299 5043642 62.70 CTWTR 01 506036.99 5043917.3 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8		14.94	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
LTOW	RAWTR1-CH918-2-11	CTWTR_02 506041.55 5043917.6 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8	49.01	14.94	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	·02 8.59E-02 1.01E-01	3.06E-04 4.47E-04	4 0.00E+00
TOW TOW	RAWTR1-CH918-3-11 RAWTR1-CH918-4-11	CTWTR_03 506049.25 5043917.6 62.70 CTWTR 04 506053.37 5043917.4 62.70	73.00 22.25 73.00 22.25	12.00 3.66 12.00 3.66	332,598.33 332,598.33	156.97 2,940.8 156.97 2,940.8		14.94 14.94	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
TOW TOW	RAWTR1-CH918-4-11 RAWTR1-CH918-5-11	CTWTR_04_500053.57_5043917.4 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8		14.94	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
.TOW	RAWTR1-CH918-6-11	CTWTR_06 506041.66 5043904.3 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8	49.01	14.94	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	-02 8.59E-02 1.01E-01	3.06E-04 4.47E-04	4 0.00E+00
TOW TOW	RAWTR1-CH918-7-11 RAWTR1-CH918-8-11	CTWTR_07 506048.6 5043904.5 62.70 CTWTR 08 506053.48 5043904.4 62.70	73.00 22.25 73.00 22.25	12.00 3.66 12.00 3.66	332,598.33 332,598.33	156.97 2,940.8 156.97 2,940.8		14.94 14.94	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
TOW	RAWTR1-CH918-9-11	CTWTR_08_506035.46_5043894.4 62.70 CTWTR_09_506036.74_5043892.3 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8		14.94	68.00 293		-00 0.00E+00 0.00E+00				
TOW	RAWTR1-CH918-10-11	CTWTR_10 506042.65 5043892.3 62.70	73.00 22.25	12.00 3.66	332,598.33	156.97 2,940.8		14.94	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	-02 8.59E-02 1.01E-01	3.06E-04 4.47E-04	4 0.00E+00
TOW	RAWTR1-CH918-11-11	CTWTR_11 506049.21 5043892.6 62.70 CTWTR 12 506053.84 5043892.3 62.70	73.00 22.25	12.00 3.66 12.00 3.66	332,598.33	156.97 2,940.8 156.97 2,940.8		14.94 14.94	68.00 293 68.00 293		-00 0.00E+00 0.00E+00				
TOW TOW	RAWTR1-CH918-12-11 AL4-CHW-CT2	CTWTR_12 506053.84 5043892.3 62.70 CTA4 01 508843.13 5037820.4 69.40	73.00 22.25 23.28 7.10	8.00 2.44	332,598.33 81,918.56	38.66 1,629.8		8.28	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
TOW	AL4-CHW-CT3	CTA4_02 508850.11 5037827.2 69.40	23.28 7.10	8.00 2.44	81,918.56	38.66 1,629.8	27.16	8.28	68.00 293	.15 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	1.42E-02 6.21E-0	-02 6.01E-03 1.42E-02	2 2.14E-05 6.26E-05	5 0.00E+00
.TOW	F15-CT29-1-1	CTF15_01 508966.76 5037839.6 69.40 CTF15_02 508958.95 5037844.1 69.40	37.50 11.43 37.50 11.43	9.33 2.84 9.33 2.84	111,511.15 111,511.15	52.63 1,629.8i 52.63 1,629.8i		8.28 8.28	68.00 293 68.00 293		-00 0.00E+00 0.00E+00				
_TOW _TOW	F15-CT29-1-2 F15-CT29-1-3	CTF15 03 508949.3 5037849.6 69.40	37.50 11.43	11.00 3.35	178,575.07	84.28 1,879.0		9.55	68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
LTOW	F15-CT29-1-4	CTF15_04 508937.84 5037856.2 69.40	37.50 11.43	11.00 3.35	178,575.07	84.28 1,879.0		9.55	68.00 293		-00 0.00E+00 0.00E+00				4 0.00E+00
LTOW LTOW	F15-CT29-1-5 F15-CT29-1-6-1	CTF15_05 508941.56 5037862.4 69.40 CTF15_06 508973.89 5037851.8 69.40	37.50 11.43 37.50 11.43	11.00 3.35 7.00 2.13	178,575.07 34,408.81	84.28 1,879.00 16.24 894.10	31.32 14.90	9.55 4.54	68.00 293 68.00 293		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				4 0.00E+00
SSS	F20-SC-134-1-100	PSDB_01 506665.95 5043736 62.70	95.00 28.96	3.50 1.07	10,362.20	4.89 1,077.0		5.47	57.00 287		-00 0.00E+00 0.00E+00				
SSS	D1C-SC134-1-100	PSDC_M 506678.31 5043478.3 62.70	77.00 23.47	3.00 0.91	2,960.63	1.40 418.84	6.98	2.13	57.00 287		-00 0.00E+00 0.00E+00				
SSS SSS	D1C-SC134-2-100 D1C-SC133-1-200	PSDD_M 506495 5043302.7 62.70 SCC2 01 506538.3 5043483.1 62.70	89.00 27.13 46.00 14.02	3.00 0.91 0.83 0.25	9,858.89 2,960.63	4.65 1,394.79 1.40 5,428.2		7.09 27.58	57.00 287 57.00 287		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
SSS	RP1-SC134-1-100	PSRP1_01 506719.16 5043351.4 62.70	85.00 25.91	3.50 1.07	12,434.64	5.87 1,292.4		6.57	57.00 287		-00 0.00E+00 0.00E+00				
SSS	SC-133-1-200	SCC3_01 506269.27 5043482.1 62.70	45.00 13.72	1.50 0.46	5,921.26	2.79 3,350.79		17.02	57.00 287		-00 0.00E+00 0.00E+00				
SSS SSS	D1XM1 Combined Modeling Stack D1XM2 Combined Modeling Stack	PSM1_M 506292.09 5043322.5 62.70 PSM2 M 506132.4 5043250.6 62.70	120.00 36.58 120.00 36.58	4.17 1.27 4.17 1.27	8,881.89 8.881.89	4.19 651.39 4.19 651.39	10.86 10.86	3.31 3.31	57.00 287 57.00 287		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
SSS	D1XM3 Combined Modeling Stack	PSM3_M 505977.34 5043186.3 62.70	120.00 36.58	4.17 1.27	8,881.89	4.19 651.39	10.86	3.31	57.00 287		-00 0.00E+00 0.00E+00				
SSS	D1XM4-SC134-1-00	PSM4_01 506073.33 5042961.1 62.70	98.50 30.02	6.17 1.88 6.17 1.88	22,500.78	10.62 753.37	12.56	3.83	57.00 287		-00 0.00E+00 0.00E+00				
SSS SSS	D1XM4-SC134-2-00 PUB1-SC133-1-00	PSM4_02 506075.24 5042957.5 62.70 SCPB1 01 506190.72 5043438.6 62.70	98.50 30.02 119.00 36.27	6.17 1.88 3.00 0.91	22,500.78 9,000.00	10.62 753.37 4.25 1,273.24	12.56 21.22	3.83 6.47	57.00 287 57.00 287		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
SS	PUB1-SC133-2-00	SCPB1_02 506194.51 5043438.7 62.70	119.00 36.27	3.00 0.91	9,000.00	4.25 1,273.2	21.22	6.47	57.00 287	.04 0.00E+00 0.00E+	-00 0.00E+00 0.00E+00	3.19E-03 1.40E-0	-02 1.97E-03 8.64E-03	6.49E-06 2.84E-05	5 0.00E+00
SS SS	F15-SC7-2-12	PSF15_01 508968.32 5037829 69.40 PSF15 02 508893.72 5037752.1 69.40	73.00 22.25 73.00 22.25	3.50 1.07 2.00 0.61	17,171.65 5,921.26	8.10 1,784.79 2.79 1,884.80		9.07 9.57	57.00 287 57.00 287		-00 0.00E+00 0.00E+00				
SS SS	F15-SC7-1-7 F15-SC7-2-7	PSF15_02 508893.72 5037752.1 69.40 PSF15_03 508805.99 5037833.7 69.40	50.00 15.24	3.50 1.07	17,171.65	8.10 1,784.79		9.07	57.00 287		-00 0.00E+00 0.00E+00 -00 0.00E+00 0.00E+00				
EN	PH #1	FIRS4_01 505986.52 5043796.5 62.70	65.00 19.81	0.42 0.13	1,016.65	0.48 7,455.9	124.27	37.88	918.00 765	.37 1.31E+00 3.28E-	-02 7.45E-01 1.86E-02	3.27E-02 8.16E-0	-04 3.27E-02 8.16E-04	3.27E-02 8.16E-04	1.58E-03
EN EN	PH #2 PH #3	FIPH2_01 506319.9 5043633.7 62.70 FIPH1_01 506814.61 5043923 62.70	15.00 4.57 15.00 4.57	0.42 0.13 0.33 0.10	2,278.74 1,159.70	1.08 16,711.9 0.55 13,289.1		84.90 67.51	987.00 803 815.00 708		-02 3.42E-01 8.55E-03 -02 6.36E-01 1.59E-02				
EN	PH #4	FIC5_01 505849.77 5043556 62.70	83.00 25.30	0.50 0.15	1,539.98	0.73 7,843.0		39.84	873.00 740		-02 6.15E-01 1.54E-02				
EN	RA1-ELEC-CPS-GEN01	EGR1_01 506791 5043642.8 62.70	95.00 28.96	0.83 0.25	4,143.92	1.96 7,597.74		38.60	876.00 742		-01 1.29E+01 1.62E-01 1				
EN EN	RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03	EGR1_02 506791 5043639.4 62.70 EGR1_03 506791 5043636.3 62.70	95.00 28.96 95.00 28.96	0.83 0.25 0.83 0.25	4,143.92 4,143.92	1.96 7,597.74 1.96 7,597.74		38.60 38.60	876.00 742 876.00 742		-01 1.29E+01 1.62E-01 1 -01 1.29E+01 1.62E-01 1				
EN	RA1-ELEC-CPS-GEN04	EGR1_04 506791 5043632.9 62.70	95.00 28.96	0.83 0.25	4,143.92	1.96 7,597.74		38.60	876.00 742		-01 1.29E+01 1.62E-01				
EN	D1C-CPS-GEN01	EGDC_01 506673.31 5043439.3 62.70	67.00 20.42	0.83 0.25	3,183.44	1.50 5,836.73		29.65	1,271.00 961		-01 1.08E+01 1.36E-01				
EN EN	D1C-CPS-GEN02 D1C-CPS-GEN03	EGDC_02 506673.31 5043438.4 62.70 EGDC 03 506673.31 5043437.6 62.70	67.00 20.42 67.00 20.42	0.83 0.25 0.83 0.25	3,183.44 3,183.44	1.50 5,836.73 1.50 5,836.73		29.65 29.65	1,271.00 961 1,271.00 961		-01 1.08E+01 1.36E-01 1 -01 1.08E+01 1.36E-01 1				
ΞN	D1C-EPS-GEN01	EGDC_04 506673.33 5043513.9 62.70	67.00 20.42	0.83 0.25	6,462.38	3.05 11,848.5		60.19	869.00 738		-01 3.29E+00 4.11E-02				
EN	D1C-EPS-GEN02	EGDC_05 506673.33 5043512 62.70	67.00 20.42	0.83 0.25	6,462.38	3.05 11,848.5		60.19	869.00 738		-01 3.29E+00 4.11E-02				
EN EN	RB1-EPS-GEN01 RP1-EPS-GEN01	EGRB1_01 506638.99 5043634.1 62.70 EGRP1 01 506651.54 5043269.7 62.70	95.00 28.96 42.00 12.80	1.00 0.30 1.00 0.30	1,933.96 5,514.40	0.91 2,462.40 2.60 7,021.11		12.51 35.67	1,234.00 940 963.00 790		-01 4.88E+00 6.10E-02 -01 6.94E+00 8.68E-02				
EN	RP1-GEN-2	EGRP1_02 506651.54 5043267.2 62.70	42.00 12.80	1.00 0.30	5,514.40	2.60 7,021.1	117.02	35.67	963.00 790		-01 1.57E+01 1.96E-01				
EN	EPS-GEN01	EGDD_01 506569.98 5043352.3 62.70	115.00 35.05	0.67 0.20	4,325.62	2.04 12,391.9		62.95	814.10 707		-01 5.31E+00 6.64E-02				
EN EN	EPS-GEN02 EPS-GEN03	EGDD_02 506569.98 5043352.3 62.70 EGDD 03 506569.98 5043352.3 62.70	115.00 35.05 115.00 35.05	0.67 0.20 0.67 0.20	4,325.62 4,325.62	2.04 12,391.9 2.04 12,391.9		62.95 62.95	814.10 707 814.10 707		-01 5.31E+00 6.64E-02 1 -01 5.31E+00 6.64E-02 1				
EN	EPS-GEN04	EGDD_04 506569.98 5043352.3 62.70	115.00 35.05	0.67 0.20	4,325.62	2.04 12,391.9	3 206.53	62.95	814.10 707	.65 3.58E+01 4.47E-	-01 5.31E+00 6.64E-02 °	.10E+00 1.38E-0	-02 1.10E+00 1.38E-02	2 1.10E+00 1.38E-02	2 3.50E-02
SEN	EPS-GEN05	EGDD_05 506569.98 5043352.3 62.70	115.00 35.05	0.67 0.20	4,325.62	2.04 12,391.9		62.95	814.10 707	.65 3.58E+01 4.47E-	-01 5.31E+00 6.64E-02 1	.10E+00 1.38E-0	·02 1.10E+00 1.38E-02	2 1.10E+00 1.38E-02	2 3.50E-02
EN EN	EPS-GEN06 D1D-GEN-7	EGDD_06 506569.98 5043352.3 62.70 EGDD 07 506569.98 5043352.3 62.70	115.00 35.05 115.00 35.05	0.67 0.20 0.67 0.20	4,325.62 4,325.62	2.04 12,391.9 2.04 12,391.9		62.95 62.95	814.10 707 814.10 707		-01 5.31E+00 6.64E-02 1 -01 5.31E+00 6.64E-02 1				
EN	RS4-ELEC-EG-4-1	EGRS4_01 506001.58 5043391.3 62.70	18.00 5.49	0.42 0.13	292.99	0.14 2,148.7		10.92	1,234.00 940		-01 2.56E+00 3.20E-02				
SEN	RS6-ELEC-EG-6-1	EGRS6_01 505987.76 5043560.5 62.70	18.00 5.49	0.42 0.13	292.99	0.14 2,148.78	35.81	10.92	1,234.00 940	.93 8.88E+00 1.11E-	-01 2.56E+00 3.20E-02	7.51E-01 9.39E-0	-03 7.51E-01 9.39E-03	7.51E-01 9.39E-03	3 5.45E-03
SEN	RS6-GEN-2 D1X-GEN-1A	EGRS6_02 505987.77 5043558.8 62.70	18.00 5.49	0.67 0.20 1.67 0.51	4,325.62	2.04 12,391.9		62.95	814.10 707		-01 5.31E+00 6.64E-02 1				
GEN		EGE1 01 506155.26 5043820.5 62.70	51.00 15.54	1.6/ 11.51	7,810.35	3.69 3,580.0	59.67	18.19	829.00 715	.93 4.78F+01 5.98F.	-01 5.61E+00 7.01E-02	6.41E-01 8.01F-0	03 6.41E-01 8 01E-03	' 6.41E-01 8.01E-0's	3 4.411-117

Intel	Cor	noration	- Stack	Information	

, , , , , , , , , , , , , , , , , , ,			Stack Height	Stad	k Diameter	Adjusted Stack	Flow Rate		Stack Velocity		Stack Temp	erature	NOx	СО	PN	M PM ₁₀	PM _{2.5}	SO ₂
Equipment Type	Equipment ID	Stack ID UTM UTM Elevation Easting Northing (m)	(ft) (m)) (ft	(m)	(ft³/min)	(m ³ /s)	(ft/min)	(ft/s)	(m/s)	(°F)	(K)	(lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr)	(tpy) (lb/hr) (tpy)	(lb/hr) (tpy)	(lb/hr) (tpy)
EGEN	D1X-GEN-2A	EGE1_04 506158.66 5043827.6 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00					8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-2B	EGE1_05 506164.13 5043829.9 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN EGEN	D1X-GEN-2C D1X-GEN-3A	EGE1_06 506162.5 5043832 62.70 EGE1_07 506168.77 5043834.3 62.70	51.00 15.5 51.00 15.5			7,810.35 7.810.35	3.69 3.69	3,580.00 3,580.00	59.67 59.67	18.19 18.19	829.00 829.00	715.93 715.93				8.01E-03 6.41E-01 8.01E-03 8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-3A D1X-GEN-3B	EGE1 08 506185.64 5043852.6 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-3C	EGE1 09 506183.92 5043854 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-4A	EGE1 10 506189.85 5043857.4 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-4B	EGE1_11 506188.4 5043858.8 62.70	51.00 15.5	54 1.6	7 0.51	7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-5C	EGE1_12 506194.66 5043862 62.70	51.00 15.5			22,779.74	10.75	7,251.02	120.85	36.84	829.00	715.93				1.20E-03 9.61E-02 1.20E-03		
EGEN	D1X-GEN-4C	EGE1_13 506192.64 5043863.1 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				8.01E-03 6.41E-01 8.01E-03		
EGEN	D1X-GEN-5A	EGE1_14 506199.06 5043866.4 62.70	51.00 15.5			22,779.74	10.75	7,251.02	120.85	36.84	829.00	715.93				1.26E-03 1.01E-01 1.26E-03		
EGEN EGEN	D1X-GEN-5B D1X-GEN-6A	EGE1_15 506197.76 5043867.4 62.70 EGE1_16 506202.67 5043870.6 62.70	51.00 15.5 51.00 15.5			22,779.74 22,779.74	10.75 10.75	7,251.02 7,251.02	120.85 120.85	36.84 36.84	829.00 829.00	715.93 715.93				1.89E-04 1.51E-02 1.89E-04 1.89E-04 1.51E-02 1.89E-04		
EGEN	D1X-GEN-6A D1X-GEN-6B	EGE1_16 506202.07 5043870.0 62.70 EGE1_17 506201.1 5043871.7 62.70	51.00 15.5			22,779.74	10.75	7,251.02	120.85	36.84	829.00	715.93				1.89E-04 1.51E-02 1.89E-04 1.89E-04 1.51E-02 1.89E-04		
EGEN	D1X-GEN-6C	EGE1_17 506201:17 5043071:77 62:70	51.00 15.5			22,779.74	10.75	7,251.02	120.85	36.84	829.00	715.93				1.89E-04 1.51E-02 1.89E-04		
EGEN	D1X-GEN-7A	EGE1 19 506206.28 5043877.6 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				1.20E-03 9.61E-02 1.20E-03		
EGEN	D1X-GEN-7B	EGE1_20 506210.87 5043879 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93	4.78E+01 5.98E-01	1.12E+00 1.40E-	02 9.61E-02	1.20E-03 9.61E-02 1.20E-03	9.61E-02 1.20E-	-03 4.41E-02 5.51E-04
EGEN	D1X-GEN-7C	EGE1_21 506208.89 5043880.9 62.70	51.00 15.5			7,810.35	3.69	3,580.00	59.67	18.19	829.00	715.93				1.20E-03 9.61E-02 1.20E-03		
EGEN	D1X2-GEN-1A	EGC5_01 505880.6 5043410.9 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-1B	EGC5_02 505880.6 5043416.1 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN EGEN	D1X2-GEN-1C	EGC5_03 505880.6 5043424.3 62.70 EGC5_04 505880.6 5043432.3 62.70	85.04 25.9 85.04 25.9			22,778.73 22,778.73	10.75 10.75	10,441.00 10.441.00	174.02 174.02	53.04 53.04	830.00 830.00	716.48 716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-2A D1X2-GEN-2B	EGC5_04 505880.6 5043452.3 62.70	85.04 25.9 85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03 1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-2C	EGC5 06 505880.6 5043451.2 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-3A	EGC5 07 505880.6 5043456.9 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-3B	EGC5_08 505880.6 5043479.5 62.70	85.04 25.9	92 1.6	7 0.51	22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-3C	EGC5_09 505880.6 5043485.6 62.70	85.04 25.9	92 1.6	7 0.51	22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48	6.80E+01 8.49E-01	8.87E-01 1.11E-	02 8.86E-02	1.11E-03 8.86E-02 1.11E-03	8.86E-02 1.11E-	-03 6.10E-02 7.63E-04
EGEN	D1X2-GEN-4A	EGC5_10 505880.6 5043491.7 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-4B	EGC5_11 505880.6 5043497.8 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-4C	EGC5_12 505880.6 5043515.2 62.70 EGC5_13 505880.6 5043521.3 62.70	85.04 25.9			22,778.73 22,778.73	10.75	10,441.00	174.02 174.02	53.04 53.04	830.00 830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN EGEN	D1X2-GEN-5A D1X2-GEN-5B	EGC5_13 505880.6 5043521.3 62.70 EGC5_14 505880.6 5043527.4 62.70	85.04 25.9 85.04 25.9			22,778.73	10.75 10.75	10,441.00 10.441.00	174.02	53.04	830.00	716.48 716.48				1.11E-03 8.86E-02 1.11E-03 1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-5D	EGC5 15 505880.6 5043532.8 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-6A	EGC5 16 505880.6 5043527.4 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-6B	EGC5_17 505880.6 5043521.3 62.70	85.04 25.9	92 1.6	7 0.51	22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-6C	EGC5_18 505880.6 5043515.2 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-7A	EGC5_19 505880.6 5043497.8 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1X2-GEN-7B	EGC5_20 505880.6 5043491.7 62.70	85.04 25.9			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN EGEN	D1X2-GEN-7C	EGC5_21 505880.6 5043485.6 62.70 EGDB 01 506725.14 5043877.9 62.70	85.04 25.9 35.00 10.6			22,778.73 4,143.92	10.75 1.96	10,441.00 7.597.74	174.02 126.63	53.04 38.60	830.00 1,257.00	716.48 953.71				1.11E-03 8.86E-02 1.11E-03		
EGEN	F20-EPS-1 F20-EPS-2	EGDB_01 500725.14 5043877.9 62.70 EGDB 02 506725.14 5043875.1 62.70	35.00 10.6			4,143.92	1.96	7,597.74	126.63	38.60	1,257.00	953.71				1.89E-04 1.51E-02 1.89E-04 1.89E-04 1.51E-02 1.89E-04		
EGEN	F20-CPS-1	EGDB_02 500723.14 5043673.1 02.70	45.00 13.7			4.143.92	1.96	7,597.74	126.63	38.60	1,257.00	953.71				6.31E-03 5.05E-01 6.31E-03		
EGEN	F15-EG01	EGF15 01 508927.12 5037851.6 69.40	64.50 19.6			3,628.43	1.71	4,619.86	77.00	23.47	944.00	779.82				6.31E-03 5.05E-01 6.31E-03		
EGEN	F15-EG02	EGF15_02 508928.16 5037851.1 69.40	64.50 19.6	66 1.0	0.30	4,652.41	2.20	5,923.64	98.73	30.09	923.00	768.15	2.62E+01 3.27E-01	1.11E+01 1.38E-	01 5.05E-01	6.31E-03 5.05E-01 6.31E-03	5.05E-01 6.31E-	-03 2.44E-02 3.05E-04
EGEN	F15-EG03	EGF15_03 508929.2 5037850.5 69.40	64.50 19.6			4,652.41	2.20	5,923.64	98.73	30.09	923.00	768.15				6.31E-03 5.05E-01 6.31E-03		
EGEN	F15.5-EG01	EGF5_01 509104.57 5037792.7 69.40	67.00 20.4			4,652.41	2.20	5,923.64	98.73	30.09	923.00	768.15				7.25E-03 5.80E-01 7.25E-03		
EGEN	F15.5-EG02	EGF5_02 509109.61 5037797.5 69.40	67.00 20.4			4,652.41	2.20	5,923.64	98.73	30.09	923.00	768.15				6.75E-03 5.40E-01 6.75E-03		
EGEN EGEN	N2-GEN-1A H2-GEN-1	EGN2_01 506274.7 5043906.6 62.70 EGH2_01 506437.39 5044073.8 62.70	20.00 6.10 26.02 7.90			7,749.99 2.260.10	3.66 1.07	7,249.66 5.399.97	120.83 90.00	36.83 27.43	1,034.00 926.60	829.82 770.15				5.91E-04 4.73E-02 5.91E-04 3.14E-04 2.51E-02 3.14E-04		
EGEN	IWW-GEN-2	EGIW 01 506152.98 5044046.4 62.70	21.98 6.7			7,565.45	3.57	18,075.86	301.26	91.83	836.80	720.26				1.89E-04 1.51E-02 1.89E-04		
EGEN	IWW-GEN-1	EGIW 02 506161.38 5044046.5 62.70	19.39 5.9			7,565.45	3.57	18,075.86	301.26	91.83	836.80	720.26				1.89E-04 1.51E-02 1.89E-04		
EGEN	IWW-PS-1	EGIW_03 505881.34 5043340.4 62.70	21.98 6.7			7,565.45	3.57	18,075.86	301.26	91.83	836.80	720.26				3.12E-04 2.50E-02 3.12E-04		
EGEN	MAX-EGEN	EGRS8_01 507424.81 5043383.9 62.70	8.00 2.4			776.79	0.37	9,082.11	151.37	46.14	1,234.00	940.93				1.05E-03 8.42E-02 1.05E-03		
EGEN	D1A-GEN-1	EGDA_01 506754.32 5043977 62.70	76.41 23.2			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1A-GEN-2	EGDA_02 506757.32 5043977 62.70	76.41 23.2			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1A-GEN-3	EGDA_03 506754.32 5043970 62.70 EGDA_04 506757.32 5043970 62.70	76.41 23.2			22,778.73	10.75	10,441.00 10.441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN EGEN	D1A-GEN-4 D1A-GEN-5	EGDA_04 506757.32 5043970 62.70 EGDA 05 506754.32 5043963 62.70	76.41 23.2 76.41 23.2			22,778.73 22,778.73	10.75 10.75	10,441.00	174.02 174.02	53.04 53.04	830.00 830.00	716.48 716.48				1.11E-03 8.86E-02 1.11E-03 1.11E-03 8.86E-02 1.11E-03		
EGEN	D1A-GEN-5 D1A-GEN-6	EGDA 06 506757.32 5043963 62.70	76.41 23.2			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1A-GEN-7	EGDA 07 506754.32 5043956 62.70	76.41 23.2			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
EGEN	D1A-GEN-8	EGDA_08 506757.32 5043956 62.70	76.41 23.2			22,778.73	10.75	10,441.00	174.02	53.04	830.00	716.48				1.11E-03 8.86E-02 1.11E-03		
LIME		LIME 506321.13 5043487 62.70											0.00E+00 0.00E+00	0.00E+00 0.00E+	00 1.01E-01	4.44E-01 1.01E-01 4.44E-01	1.01E-01 4.44E-	·01 0.00E+00 0.00E+00

							Stack Height	Stack Diameter	Stack Velocity	Stack Temperature	NC)x	CO		PM10		PM25	i	SO2	
Equipment Type	Building	Equipment ID	Stack ID	UTM	UTM	Elevation	(m)	(m)	(m/s)	(K)	*	Annual Emissions		Hourly 8-HR Emissions	Hourly Emissions	Annual Emissions	Hourly Emissions	Annual Emissions	Hourly Emissions	Annual Emissions
				Easting	Northing	(m)					(g/s)	(g/s)	(g/s)							
Boiler Boiler	CUB1 CUB1	F20-BLR115-1-200 F20-BLR115-2-200		506743.17 506745.67		62.70 62.70	30.18 30.18	0.81 0.81	5.70 5.70	372.04 372.04	4.28824E-02 4.28824E-02	1.28647E-02 1.28647E-02	1.45066E-01 1.45066E-01	1.45066E-01 1.45066E-01	2.02341E-03 2.02341E-03	6.07024E-04 6.07024E-04	1.67321E-03 1.67321E-03	5.01962E-04 5.01962E-04		3.03512E-03 3.03512E-03
Boiler Boiler	CUB1 CUB1	F20-BLR115-3-200 F20-BLR115-4-200	_	506748.17 506750.67		62.70 62.70	30.18 30.18	0.81 0.61	5.70 10.09	372.04 372.04	4.28824E-02 4.16776E-02	1.28647E-02 1.25033E-02	1.45066E-01 1.40990E-01	1.45066E-01 1.40990E-01	2.02341E-03 1.96656E-03	6.07024E-04 5.89969E-04		5.01962E-04 4.87859E-04		3.03512E-03 2.94985E-03
Boiler	CUB1	F20-BLR115-5-200		506753.17		62.70	30.18	0.61	10.09	449.82	4.00140E-02	1.20042E-02	1.35363E-01	1.35363E-01	1.88807E-03	5.66420E-04		4.67639E-04 4.68386E-04		2.83210E-03
Boiler Boiler	RA1 RA1	RA1-MECH-B01 RA1-MECH-B02	BOR1_01	506843.5 506804.48		62.70 62.70	28.96 28.96	0.20 0.15	3.26 5.79	372.04 372.04	8.89412E-03 1.23529E-02	2.66824E-03 3.70588E-03	7.47106E-03 1.03765E-02	7.47106E-03 1.03765E-02	4.62494E-05 6.42353E-05	1.38748E-05 1.92706E-05		1.14734E-05 1.59353E-05		6.93741E-05 9.63529E-05
Boiler	CUB2	CUB2-BLR115-1-210	BOC2_01	506579.98	3 5043557.1	62.70	13.72	0.81	2.33	372.04	4.37155E-02	1.31146E-02	1.47884E-01	1.47884E-01	2.06272E-03	6.18817E-04	1.70571E-03	5.11714E-04	1.03136E-02	3.09409E-03
Boiler Boiler	CUB2 CUB2	CUB2-BLR115-2-210 CUB2-BLR115-3-210	BOC2_02 BOC2_03	506579.22 506574.1		62.70 62.70	13.72 13.72	0.81 0.81	2.33 2.33	372.04 372.04	4.37155E-02 4.37155E-02	1.31146E-02 1.31146E-02	1.47884E-01 1.47884E-01	1.47884E-01 1.47884E-01	2.06272E-03 2.06272E-03	6.18817E-04 6.18817E-04		5.11714E-04 5.11714E-04		3.09409E-03 3.09409E-03
Boiler	CUB2	CUB2-BLR115-4-210	BOC2_04	506575	5043575.9	62.70	13.72	0.81	2.33	372.04	4.44595E-02	1.33378E-02	1.50401E-01	1.50401E-01	2.09783E-03	6.29349E-04	1.73474E-03	5.20423E-04	1.04891E-02	3.14674E-03
Boiler Boiler	CUB2 CUB2	CUB2-BLR115-5-210 CUB2-BLR115-6-210		506536.08 506556.51		62.70 62.70	13.72 13.72	0.61 0.61	10.09 10.09	372.04 372.04	4.00126E-02 4.16816E-02	1.20038E-02 1.25045E-02	1.35358E-01 1.41004E-01	1.35358E-01 1.41004E-01	1.88800E-03 1.96676E-03	5.66401E-04 5.90027E-04		4.68370E-04 4.87907E-04		2.83201E-03 2.95013E-03
Boiler	RA4	RA4-BLR152-2-30	BOR4_01	506497.72	2 5043102.2	62.70	36.90	0.20	3.94	449.82	2.46935E-02	7.40806E-03	2.07426E-02	2.07426E-02	1.28406E-04	3.85219E-05	1.06182E-04	3.18547E-05	6.42032E-04	1.92610E-04
Boiler Boiler	RA4 RA4	RA4-BLR152-1-30 RA4-BLR117-2-30		506500.12 506524.09	2 5043103 9 5043114.7	62.70 62.70	36.90 40.23	0.20 0.30	3.94 11.46	449.82 449.82	2.46935E-02 2.46935E-02	7.40806E-03 7.40806E-03	2.07426E-02 2.07426E-02	2.07426E-02 2.07426E-02	1.28406E-04 1.28406E-04	3.85219E-05 3.85219E-05		3.18547E-05 3.18547E-05		1.92610E-04 1.92610E-04
Boiler	RA4	RA4-BLR117-1-30		506526.12		62.70	40.23	0.30	11.46	449.82	2.46935E-02	7.40806E-03	2.07426E-02	2.07426E-02	1.28406E-04	3.85219E-05		3.18547E-05		1.92610E-04
Boiler Boiler	RA4 RA4	RA4-BLR117-3-30 RA4-BLR117-4-30	BOR4_05 BOR4_06	506460.1 506460.94		62.70 62.70	40.23 40.23	0.61 0.61	10.66 10.66	449.82 449.82	4.00140E-02 4.00140E-02	1.20042E-02 1.20042E-02	1.35363E-01 1.35363E-01	1.35363E-01 1.35363E-01	1.88807E-03 1.88807E-03	5.66420E-04 5.66420E-04	1.56129E-03 1.56129E-03	4.68386E-04 4.68386E-04		2.83210E-03 2.83210E-03
Boiler	CUB3	BLR-115-1-210	BOC3_01			62.70	15.54	0.46	2.50	422.04	6.17521E-02	1.85256E-02	3.76020E-02	3.76020E-02	5.24481E-04	1.57344E-04		1.30112E-04		7.86722E-04
Boiler Boiler	CUB3 CUB3	BLR-115-2-210 BLR-115-3-210	BOC3_02 BOC3_03			62.70 62.70	15.54 15.54	0.81 0.81	3.17 3.17	422.04 422.04	4.00140E-02 4.00140E-02	1.20042E-02 1.20042E-02	1.35363E-01 1.35363E-01	1.35363E-01 1.35363E-01	1.88807E-03 1.88807E-03	5.66420E-04 5.66420E-04		4.68386E-04 4.68386E-04		2.83210E-03 2.83210E-03
Boiler Boiler	CUB3 CUB3	BLR-115-4-210 BLR-115-5-210	BOC3_04 BOC3_05			62.70 62.70	15.54 15.54	0.81 0.61	1.39 3.56	422.04 422.04	4.44602E-02 6.48363E-02	1.33380E-02 1.94509E-02	1.50403E-01 6.58000E-02	1.50403E-01 6.58000E-02	2.09786E-03 9.17794E-04	6.29358E-04 2.75338E-04		5.20431E-04 2.27683E-04		3.14679E-03 1.37669E-03
Boiler	CUB3	BLR-115-5-210 BLR-115-6-210	BOC3_06			62.70	15.54	0.61	3.56	422.04	4.00126E-02	1.20038E-02	1.35358E-01	1.35358E-01	9.17794E-04 1.88800E-03	5.66401E-04		4.68370E-04		2.83201E-03
Boiler Boiler	RP1 RP1	RP1-BLR115-1-210 RP1-BLR115-2-210	BORP1_01 BORP1_02		5043315.3 5043311.1	62.70 62.70	12.80 12.80	0.51 0.51	3.03 3.03	418.71 418.71	1.89213E-02 1.66724E-02	5.67640E-03 5.00172E-03	6.40086E-02 5.64007E-02	6.40086E-02 5.64007E-02	8.92806E-04 7.86690E-04	2.67842E-04 2.36007E-04		2.21485E-04 1.95160E-04		1.33921E-03 1.18003E-03
Boiler	RP1	RP1-BLR115-3-210	BORP1_03		5043307	62.70	12.80	0.51	3.03	418.71	1.66724E-02	5.00172E-03 5.00172E-03	5.64007E-02 5.64007E-02	5.64007E-02	7.86690E-04	2.36007E-04 2.36007E-04		1.95160E-04 1.95160E-04		1.18003E-03
Boiler Boiler	RP1 CUB4	RP1-BLR115-4-210 CUB4-BLR115-1-10	BORP1_04	4 506762 506418.13	5043302.8 5043522	62.70 62.70	12.80 26.37	0.51 0.51	1.06 10.82	449.82 449.82	1.59482E-02 1.94495E-02	4.78445E-03 5.83486E-03	5.39507E-02 6.57954E-02	5.39507E-02 6.57954E-02	7.52516E-04 9.17730E-04	2.25755E-04 2.75319E-04		1.86682E-04 2.27668E-04		1.12877E-03 1.37659E-03
Boiler	CUB4	CUB4-BLR115-2-10	BOC4_02	506418.4	5043527.6	62.70	26.37	0.61	13.79	449.82	4.16776E-02	1.25033E-02	1.40990E-01	1.40990E-01	1.96656E-03	5.89969E-04	1.62620E-03	4.87859E-04	9.83282E-03	2.94985E-03
Boiler Boiler	CUB4 CUB4	CUB4-BLR115-3-10 CUB4-BLR115-4-10	_	506429.87 506429.87		62.70 62.70	26.37 26.37	0.61 0.61	13.79 13.79	449.82 449.82	4.16776E-02 4.16776E-02	1.25033E-02 1.25033E-02	1.40990E-01 1.40990E-01	1.40990E-01 1.40990E-01	1.96656E-03 1.96656E-03	5.89969E-04 5.89969E-04		4.87859E-04 4.87859E-04		2.94985E-03 2.94985E-03
Boiler	CUB4	CUB4-BLR115-5-10	BOC4_05	506429.87	5043527.8	62.70	26.37	0.61	13.79	449.82	4.00140E-02	1.20042E-02	1.35363E-01	1.35363E-01	1.88807E-03	5.66420E-04	1.56129E-03	4.68386E-04	9.44034E-03	2.83210E-03
Boiler Boiler	CUB4 CUB4x	CUB4-BLR115-6-10 CUB4-BLR115-7-10		506417.92 506437.44	2 5043516.1 4 5043483.6	62.70 62.70	26.37 26.37	0.61 0.61	13.79 13.79	449.82 449.82	4.00140E-02 4.00140E-02	1.20042E-02 1.20042E-02	1.35363E-01 1.35363E-01	1.35363E-01 1.35363E-01	1.88807E-03 1.88807E-03	5.66420E-04 5.66420E-04		4.68386E-04 4.68386E-04		2.83210E-03 2.83210E-03
Boiler	CUB5	RAC5-BLR115-1	BOC5_01	505876.9	5043551.4	62.70	21.34	0.61	13.79	449.82	4.00099E-02	1.20030E-02	1.35349E-01	1.35349E-01	1.88788E-03	5.66363E-04	1.56113E-03	4.68338E-04	9.43938E-03	2.83181E-03
Boiler Boiler	CUB5 CUB5	RAC5-BLR115-2 RAC5-BLR115-3	BOC5_02 BOC5_03			62.70 62.70	21.34 21.34	0.61 0.61	13.79 13.79	449.82 449.82	4.00099E-02 4.00099E-02	1.20030E-02 1.20030E-02	1.35349E-01 1.35349E-01	1.35349E-01 1.35349E-01	1.88788E-03 1.88788E-03	5.66363E-04 5.66363E-04		4.68338E-04 4.68338E-04		2.83181E-03 2.83181E-03
Boiler	CUB5	RAC5-BLR115-4	BOC5_04	505869.5	5043551.4	62.70	21.34	0.61	13.79	449.82	4.00099E-02	1.20030E-02	1.35349E-01	1.35349E-01	1.88788E-03	5.66363E-04	1.56113E-03	4.68338E-04	9.43938E-03	2.83181E-03
Boiler Boiler	RA2 RA2	RA2-BLR115-1-300 RA2-BLR115-2-300	BOR2_01 BOR2_02	506833.31 506833.31		62.70 62.70	28.96 28.96	0.36 0.36	1.03 1.03	359.82 359.82	5.71765E-03 5.71765E-03	1.71529E-03 1.71529E-03	1.93421E-02 1.93421E-02	1.93421E-02 1.93421E-02	2.69788E-04 2.69788E-04	8.09365E-05 8.09365E-05		6.69282E-05 6.69282E-05		4.04682E-04 4.04682E-04
Boiler	RS4	RS4-BLR115-1	BORS4_01	1 505917.6	5043854.6	62.70	16.46	0.30	11.46	449.82	9.07563E-03	2.72269E-03	9.21053E-03	9.21053E-03	1.28471E-04	3.85412E-05	1.06235E-04	3.18706E-05	6.42353E-04	1.92706E-04
Boiler Boiler	RS4 RS4	RS4-BLR115-2 RS4-BLR115-3	_	2 505917.6 3 505917.6		62.70 62.70	16.46 16.46	0.30 0.20	11.46 3.94	449.82 449.82	9.07563E-03 2.26891E-03	2.72269E-03 6.80672E-04	9.21053E-03 2.30263E-03	9.21053E-03 2.30263E-03	1.28471E-04 3.21176E-05	3.85412E-05 9.63529E-06		3.18706E-05 7.96765E-06		1.92706E-04 4.81765E-05
Boiler	RS6	RS6-BLR115-1	BORS6_01			62.70	16.46	0.30	11.46	449.82	9.07563E-03	2.72269E-03	9.21053E-03	9.21053E-03	1.28471E-04	3.85412E-05		3.18706E-05		1.92706E-04
Boiler Boiler	RS6 RS6	RS6-BLR115-2 RS6-BLR115-3	_	2 505906.8 3 505906.8		62.70 62.70	16.46 16.46	0.30 0.20	11.46 3.94	449.82 449.82	9.07563E-03 2.26891E-03	2.72269E-03 6.80672E-04	9.21053E-03 2.30263E-03	9.21053E-03 2.30263E-03	1.28471E-04 3.21176E-05	3.85412E-05 9.63529E-06		3.18706E-05 7.96765E-06		1.92706E-04 4.81765E-05
Boiler Boiler	F15 F15	F15-BLR28-1-1 F15-BLR28-1-2	_	508932.88 508934.61		69.40 69.40	20.12 20.12	0.76 0.76	4.92	324.26 324.26	2.84821E-02	8.54462E-03	9.63513E-02	9.63513E-02	1.34393E-03 1.34393E-03	4.03179E-04 4.03179E-04		3.33398E-04 3.33398E-04		2.01590E-03 2.01590E-03
Boiler	F15	F15-BLR28-1-3		508934.01		69.40	14.33	0.76	4.92 4.92	324.26	2.84821E-02 2.84821E-02	8.54462E-03 8.54462E-03	9.63513E-02 9.63513E-02	9.63513E-02 9.63513E-02	1.34393E-03	4.03179E-04 4.03179E-04		3.33398E-04		2.01590E-03
Boiler Boiler	F15 F15	F15-HW35-3 F15-HW35-4			3 5037758.4 3 5037797.2	69.40 69.40	23.02 23.01	0.15 0.15	5.05 4.05	324.26 338.71	7.41176E-03 7.41176E-03	2.22353E-03 2.22353E-03	6.22588E-03 6.22588E-03	6.22588E-03 6.22588E-03	3.85412E-05 3.85412E-05	1.15624E-05 1.15624E-05		9.56118E-06 9.56118E-06		5.78118E-05 5.78118E-05
Boiler	CUB5	RAC5-BLR115-5	BOC5_05			62.70	21.34	0.61	10.66	449.82	4.00099E-02	1.20030E-02	1.35349E-01	1.35349E-01	1.88788E-03	5.66363E-04	1.56113E-03	4.68338E-04	9.43938E-03	2.83181E-03
Boiler Boiler	CUB5 CUB5	RAC5-BLR115-6 RAC5-BLR115-7		505855.4 505853.3		62.70 62.70	21.34 21.34	0.61 0.61	10.66 10.66	449.82 449.82	4.00099E-02 4.00099E-02	1.20030E-02 1.20030E-02	1.35349E-01 1.35349E-01	1.35349E-01 1.35349E-01	1.88788E-03 1.88788E-03	5.66363E-04 5.66363E-04		4.68338E-04 4.68338E-04		2.83181E-03 2.83181E-03
Boiler	CUB5	RAC5-BLR115-8	BOC5_08	505851.5	5043551.4	62.70	21.34	0.61	10.66	449.82	4.00099E-02	1.20030E-02	1.35349E-01	1.35349E-01	1.88788E-03	5.66363E-04	1.56113E-03	4.68338E-04	9.43938E-03	2.83181E-03
Boiler Boiler	N2 Plant N2 Plant	N2-BLR117-1A-30 N2-BLR117-1B-30			5 5043924.4 5 5043924.4	62.70 62.70	7.01 7.01	0.70 0.70	3.17 3.17	422.04 422.04	6.20773E-02 6.20773E-02	1.86232E-02 1.86232E-02	2.10000E-01 2.10000E-01	2.10000E-01 2.10000E-01	2.92913E-03 2.92913E-03	8.78739E-04 8.78739E-04		7.26649E-04 7.26649E-04		4.39369E-03 4.39369E-03
RCTO	D1B	D1B Combined Modeling Stack	TODB_M	506639.16	5 5043778.1	62.70	24.38	0.91	11.59	616.48	2.71765E-01	2.71765E-01	1.87518E-01	1.87518E-01	8.10812E-02	6.87000E-02	8.10812E-02	6.87000E-02	7.06588E-03	7.06588E-03
RCTO RCTO	D1C D1C	D1C-VOC138-1-120 D1C-VOC138-2-120			5043430.5 5043432.2	62.70 62.70	36.58 36.58	0.30 0.30	21.99 21.99	616.48 616.48	2.47059E-02 2.47059E-02	2.47059E-02 2.47059E-02	1.90878E-01 1.90878E-01	1.90878E-01 1.90878E-01	6.80824E-03 6.80824E-03	5.77647E-03 5.77647E-03		5.77647E-03 5.77647E-03		6.42353E-04 6.42353E-04
RCTO	D1C	D1C-VOC138-3-120	TODC_03	506744.57	7 5043432.3	62.70	36.58	0.30	21.99	616.48	2.47059E-02	2.47059E-02	1.90878E-01	1.90878E-01	6.80824E-03	5.77647E-03	6.80824E-03	5.77647E-03	6.42353E-04	6.42353E-04
RCTO RCTO	D1D D1D	VOC-138-1-120 VOC-138-2-120			3 5043403.9 3 5043403.9	62.70 62.70	27.13 27.13	0.46 0.46	9.77 9.77	616.48 616.48	2.47059E-02 2.47059E-02	2.47059E-02 2.47059E-02	1.41491E-01 1.41491E-01	1.41491E-01 1.41491E-01	1.83888E-02 1.83888E-02	1.54269E-02 1.54269E-02		1.54269E-02 1.54269E-02		6.42353E-04 6.42353E-04
RCTO	D1D	VOC-138-3-120	TODD_03	506467.03	3 5043403.9	62.70	27.13	0.46	9.77	616.48	2.47059E-02	2.47059E-02	1.41491E-01	1.41491E-01	1.83888E-02	1.54269E-02	1.83888E-02	1.54269E-02	6.42353E-04	6.42353E-04
RCTO RCTO	D1D D1D	VOC-138-4-120 VOC-138-5-120			3 5043403.9 3 5043403.9	62.70 62.70	27.13 27.13	0.46 0.91	9.77 11.59	616.48 616.48	2.47059E-02 9.88235E-02	2.47059E-02 9.88235E-02	1.41491E-01 6.81882E-02	1.41491E-01 6.81882E-02	1.83888E-02 2.02417E-02	1.54269E-02 1.72799E-02		1.54269E-02 1.72799E-02		6.42353E-04 2.56941E-03
RCTO	D1D	VOC-138-6-120	TODD_06	506467.03	3 5043403.9	62.70	27.13	0.91	11.59	616.48	9.88235E-02	9.88235E-02	6.81882E-02	6.81882E-02	2.02417E-02	1.72799E-02	2.02417E-02	1.72799E-02	2.56941E-03	2.56941E-03
RCTO RCTO	D1XM1 D1XM1	D1XM1-VOC138-1-20 D1XM1-VOC138-2-20			5043349.8 5043347.1	62.70 62.70	36.58 36.58	0.61 0.61	10.35 10.35	616.48 616.48	4.32353E-02 4.32353E-02	4.32353E-02 4.32353E-02	2.98324E-02 2.98324E-02	2.98324E-02 2.98324E-02	3.46105E-03 3.46105E-03	3.06435E-03 3.06435E-03		3.06435E-03 3.06435E-03		1.12412E-03 1.12412E-03
RCTO	D1XM1	D1XM1-VOC138-3-20	TOM1_03	506323.67	5043344.1	62.70	36.58	0.61	10.35	616.48	4.32353E-02	4.32353E-02	2.98324E-02	2.98324E-02	3.46105E-03	3.06435E-03	3.46105E-03	3.06435E-03	1.12412E-03	1.12412E-03
RCTO RCTO	D1XM1 D1XM1	D1XM1-VOC138-4-20 D1XM1-VOC138-5-20 (Anguil RCTO D1X-1)			3 5043340.9 3 5043260.6	62.70 62.70	36.58 36.58	0.61 0.91	10.35 9.76	616.48 616.48	4.32353E-02 9.88235E-02	4.32353E-02 9.88235E-02	2.98324E-02 6.81882E-02	2.98324E-02 6.81882E-02	3.46105E-03 2.02384E-02	3.06435E-03 1.70204E-02		3.06435E-03 1.70204E-02		1.12412E-03 2.56941E-03
RCTO	D1XM1	D1XM1-VOC138-6-20 (Anguil RCTO D1X-2)	TWM1_02	506255.54	5043261.9	62.70	36.58	0.91	9.76	616.48	9.88235E-02	9.88235E-02	6.81882E-02	6.81882E-02	5.37720E-02	4.52218E-02	5.37720E-02	4.52218E-02	2.56941E-03	2.56941E-03
RCTO RCTO	D1XM1 D1XM1	D1XM1-VOC138-7-20 (Anguil RCTO D1X-3) D1XM1-VOC138-8-20 (Anguil RCTO D1X-4)			5043264.7 5043267.8	62.70 62.70	36.58 36.58	0.91 0.91	9.76 9.76	616.48 616.48	9.88235E-02 9.88235E-02	9.88235E-02 9.88235E-02	6.81882E-02 6.81882E-02	6.81882E-02 6.81882E-02	5.37720E-02 2.02384E-02	4.52218E-02 1.70204E-02		4.52218E-02 1.70204E-02		2.56941E-03 2.56941E-03
RCTO	D1XM2	Anguil RCTO D1XM2-1	TIM2_06	506166.5	5043258	62.70	36.58	0.91	9.76	616.48	0.00000E+00	0.00000E+00	0.00000E+00							
RCTO RCTO	D1XM2 D1XM2	Anguil RCTO D1XM2-2 Anguil RCTO D1XM2-3	TIM2_07 TIM2_08		7 5043260.9 7 5043264.1	62.70 62.70	36.58 36.58	0.91 0.91	9.76 9.76	616.48 616.48	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 5.68039E-02	0.00000E+00 4.77483E-02		0.00000E+00 4.77483E-02		0.00000E+00 0.00000E+00
RCTO	D1XM2	Anguil RCTO D1XM2-4	TIM2_09	506186.76	5 5043267	62.70	36.58	0.91	9.76	616.48	0.00000E+00	0.00000E+00	0.00000E+00							
RCTO RCTO	D1XM2 D1XM3	Anguil RCTO D1XM2-5 D1XM3-VOC138-1-20	TIM2_01 TIM3_01		5043255.2 5043196.1	62.70 62.70	36.58 36.58	0.91 0.91	9.76 9.76	616.48 616.48	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 5.68039E-02	0.00000E+00 4.77483E-02		0.00000E+00 4.77483E-02		0.00000E+00 0.00000E+00
RCTO	D1XM3 D1XM3	D1XM3-VOC138-2-20	TIM3_02			62.70 62.70	36.58 36.58	0.91	9.76 9.76	616.48 616.48	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00			0.00000E+00		0.00000E+00
RCTO	DIVING	D1XM3-VOC138-3-20	TIM3_03	506023.5	5043200	62.70	36.58	0.91	9.70	010.46	0.00000E+00	0.00000⊑+00	0.00000E+00							

RCTO	D1XM3	D1XM3-VOC138-4-20	TIM3 04 506028.11 5043201.9 62.70	36.58	0.91	9.76	616.48	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00 0.00000	E+00 0.00000	0E+00
RCTO	D1XM3	D1XM3-VOC138-5-20	TIM3_05 506032.72 5043203.8 62.70	36.58	0.91	9.76	616.48	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00 0.00000	E+00 0.00000	0E+00
RCTO	F15	F15-VOC-138-2-10	TOF15_02 508892.79 5037747.4 69.40	20.73	0.38	14.07	616.48	2.47059E-02	2.47059E-02	2.34829E-01	2.34829E-01	2.12381E-03	1.87278E-03	2.12381E-03	1.87278E-03 6.4235	3E-04 6.42353	3E-04
RCTO	F15	F15-VOC-138-3-10	TOF15_03 508886.63 5037752.4 69.40	20.73	0.42	11.64	616.48	2.47059E-02	2.47059E-02	1.70471E-02	1.70471E-02	2.12381E-03	1.87278E-03	2.12381E-03	1.87278E-03 6.4235	3E-04 6.42353	3E-04
RCTO	AL3	AL3-VOC-138-10	TOA3_01 508883.2 5037731.6 69.40	20.73	0.46	9.77	616.48	2.47059E-02	2.47059E-02	1.70471E-02	1.70471E-02	2.12381E-03	1.87278E-03	2.12381E-03	1.87278E-03 6.4235	3E-04 6.42353	3E-04
RCTO	F15	F15-VOC-138-1-10	TOF15_01 508898.87 5037746.7 69.40	20.73	0.36	16.12	616.48	2.47059E-02	2.47059E-02	2.34829E-01	2.34829E-01	2.12381E-03	1.87278E-03	2.12381E-03	1.87278E-03 6.4235	3E-04 6.42353	3E-04
RCTO	F15	F15-VOC-138-4-10	TOF15_04 508968.04 5037707.5 69.40	20.73	0.46	9.77	616.48	2.47059E-02	2.47059E-02	1.70471E-02	1.70471E-02	2.12381E-03	1.87278E-03	2.12381E-03	1.87278E-03 6.4235	3E-04 6.42353	3E-04
EXSC	D1B	F20-SC133-1-111	SCDB_01 506735.04 5043689.3 62.70	29.26	1.07	18.88	291.48	1.62760E-01	1.35633E-01	3.05340E-01	3.05340E-01	3.16656E-02	2.65019E-02	3.09844E-02	2.58207E-02 1.3785	6E-02 1.14880	0E-02
EXSC	D1B	F20-SC133-2-111	SCDB_02 506737.08 5043678.6 62.70	29.26	1.07	18.88	291.48	1.62760E-01	1.35633E-01	3.05340E-01	3.05340E-01	3.16656E-02	2.65019E-02	3.09844E-02	2.58207E-02 1.3785	6E-02 1.14880	0E-02
EXSC	D1B	F20-SC133-3-111	SCDB_03 506729.16 5043706.8 62.70	29.26	1.07	18.88	291.48	1.62760E-01	1.35633E-01	3.05340E-01	3.05340E-01	3.16656E-02	2.65019E-02	3.09844E-02	2.58207E-02 1.3785	SE-02 1.14880	0E-02
EXSC	D1A	D1A Combined Modeling Stack	SCDA_01 506882.28 5043833.3 62.70	29.26	1.07	8.71	291.48	1.08506E-01	9.04220E-02	2.03560E-01	2.03560E-01	2.11104E-02	1.76680E-02	2.06563E-02	1.72138E-02 9.1903	3E-03 7.65865	5E-03
EXSC	D1A	D1A Combined Modeling Stack	SCDA_02 506882.28 5043821.7 62.70	29.26	1.07	8.71	291.48	1.08506E-01	9.04220E-02	2.03560E-01	2.03560E-01	2.11104E-02	1.76680E-02	2.06563E-02	1.72138E-02 9.1903	3E-03 7.65865	5E-03
EXSC	D1A	D1A Combined Modeling Stack	SCDA_03 506882.36 5043843.2 62.70	29.26	1.07	8.71	291.48	1.08506E-01	9.04220E-02	2.03560E-01	2.03560E-01	2.11104E-02	1.76680E-02	2.06563E-02	1.72138E-02 9.1903	3E-03 7.65865	5E-03
EXSC	D1C	D1C-SC133-1-100	SCDC_01 506691.63 5043427.3 62.70	21.34	1.22	13.14	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02	2.18205E-02	1.81841E-02 9.7081	4E-03 8.09012	2E-03
EXSC	D1C	D1C-SC133-2-100	SCDC_02 506697.17 5043427.4 62.70	21.34	1.22	13.14	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		2E-03
EXSC	D1C	D1C-SC133-3-100	SCDC_03 506703.15 5043427.6 62.70	21.34	1.22	13.14	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02	2.18205E-02	1.81841E-02 9.7081	4E-03 8.09012	2E-03
EXSC	D1C	D1C-SC133-4-100	SCDC_04 506708.15 5043427.6 62.70	21.34	1.22	13.14	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02	2.18205E-02	1.81841E-02 9.7081	4E-03 8.09012	2E-03
EXSC	RB1	RB1-SC-133-1-100	SCRB1_01 506726.97 5043653.5 62.70	28.96	1.22	11.82	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.03775E-02	8.74111E-03	9.82013E-03	8.18375E-03 4.3686	7E-03 3.64055	5E-03
EXSC	RB1	RB1-SC-133-2-100	SCRB1_02 506730.03 5043654.8 62.70	28.96	0.81	26.60	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.03775E-02	8.74111E-03	9.82013E-03	8.18375E-03 4.3686		
EXSC	RB1	RB1-SC-133-8-100	SCRB1_03 506734.66 5043654.5 62.70	28.96	1.22	14.45	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.28456E-02	1.12093E-02	9.82825E-03	8.19186E-03 4.3686		
EXSC	RB1	RB1-SC-133-4-100	SCRB1_04 506634.89 5043630.8 62.70	28.96	1.22	11.82	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.03775E-02	8.74111E-03		8.18375E-03 4.3686		
EXSC	RB1	RB1-SC-133-6-100	SCRB1_06 506632.54 5043628.8 62.70	28.96	0.81	26.60	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.03775E-02	8.74111E-03	9.82013E-03	8.18375E-03 4.3686		
EXSC	RB1	RB1-SC-133-7-100	SCRB1_05 506635.12 5043628.9 62.70	28.96	0.81	26.60	291.48	5.15788E-02	4.29823E-02	9.67628E-02	9.67628E-02	1.03775E-02	8.74111E-03		8.18375E-03 4.3686		
EXSC	RA4	RA4-SC133-1	SWR4_01 506367.2 5043029.3 62.70	25.91	1.02	7.57	291.48	2.20891E-02	1.84076E-02	2.20891E-03	2.20891E-03	5.99382E-04	1.52913E-03		1.28141E-03 1.4094		
EXSC	RA4	RA4-SC133-2	SWR4_02 506369.56 5043022.8 62.70	25.91	1.02	7.57	291.48	2.20891E-02	1.84076E-02	2.20891E-03	2.20891E-03	5.99382E-04	1.52913E-03		1.28141E-03 1.4094		
EXSC	RP1	RP1-SC133-1-100	SCRP1_01 506748.15 5043358 62.70	25.91	1.41	7.86	291.48	1.55500E-02	1.29584E-02	2.91722E-02	2.91722E-02	3.45710E-03	2.96376E-03		2.46833E-03 1.3170		
EXSC	RP1	RP1-SC133-2-100	SCRP1_02 506747.35 5043347.1 62.70	25.91	1.41	7.86	291.48	1.55500E-02	1.29584E-02	2.91722E-02	2.91722E-02	3.45710E-03	2.96376E-03		2.46833E-03 1.3170		
EXSC	RP1	RP1-SC133-3-100	SCRP1_03 506748.96 5043347.4 62.70	25.91	1.41	8.25	291.48	1.55500E-02	1.29584E-02	2.91722E-02	2.91722E-02	3.58137E-03	3.08803E-03		2.46874E-03 1.3170		
EXSC	D1D	SC-133-1-100	SCDD_01 506493.82 5043419.7 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		
EXSC	D1D	SC-133-2-100	SCDD_02 506494.8 5043423 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		
EXSC	D1D	SC-133-3-100	SCDD_03 506498.02 5043421.2 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		
EXSC	D1D	SC-133-4-100	SCDD_04 506499.41 5043424.2 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		
EXSC	D1D	SC-133-5-100	SCDD_05 506503.96 5043424 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02	2.18205E-02	1.81841E-02 9.7081		
EXSC	D1D	SC-133-6-100	SCDD_06 506508.76 5043426.4 62.70	27.13	1.02	18.92	291.48	1.14619E-01	9.55162E-02	2.15028E-01	2.15028E-01	2.24398E-02	1.88034E-02		1.81841E-02 9.7081		
EXSC	D1XM1	D1X-SC133-1-00	SWM1_01 506313.59 5043328 62.70	36.58	1.88	12.12	291.48	2.39750E-01	2.08776E-01	3.85846E-01	3.85846E-01	2.07338E-02	1.75334E-02		1.63567E-02 1.7142		
EXSC	D1XM1	D1X-SC133-2-00	SWM1_02 506307.36 5043325.1 62.70	36.58	1.88	12.12	291.48	2.39750E-01	2.08776E-01	3.85846E-01	3.85846E-01	2.07338E-02	1.75334E-02		1.63567E-02 1.7142		
EXSC	D1XM1	D1X-SC133-3-00	SCM1_01 506292.25 5043318.6 62.70	36.58	1.88	12.12	291.48	2.39750E-01	2.08776E-01	3.85846E-01	3.85846E-01	4.46132E-02	5.14969E-02		5.03202E-02 1.7142		
EXSC	D1XM1	D1X-SC133-4-00	SCM1_02 506280.58 5043313.5 62.70	36.58	1.88	12.12	291.48	2.39750E-01	2.08776E-01	3.85846E-01	3.85846E-01	4.46132E-02	5.14969E-02		5.03202E-02 1.7142		
EXSC	D1XM1	D1X-SC133-5-00	SWM1_03 506273.97 5043310.3 62.70	36.58	1.88	12.12	291.48	2.39750E-01	2.08776E-01	3.85846E-01	3.85846E-01	2.07338E-02	1.75334E-02		1.63567E-02 1.7142		
EXSC	D1XM2	D1XM2-SC133-2-00	SIM2_01 506153.88 5043255.6 62.70	36.58	1.88	12.12	291.48	3.99584E-01	3.47960E-01	6.43076E-01	6.43076E-01	3.37694E-02	2.84352E-02		2.72586E-02 2.8570		
EXSC	D1XM2	D1XM2-SC133-3-00	SIM2_02 506147.47 5043252.9 62.70	36.58	1.88	12.12	291.48	3.99584E-01	3.47960E-01	6.43076E-01	6.43076E-01	3.37694E-02	2.84352E-02		2.72586E-02 2.8570		
EXSC	D1XM2	D1XM2-SC133-4-00	SIM2_03 506133.96 5043247.2 62.70	36.58	1.88	12.12	291.48	3.99584E-01	3.47960E-01	6.43076E-01	6.43076E-01	3.37694E-02	2.84352E-02		2.72586E-02 2.8570		
EXSC	D1XM2	D1XM2-SC133-5-00	SIM2_04 506122.35 5043242.5 62.70	36.58	1.88	12.12	291.48	3.99584E-01	3.47960E-01	6.43076E-01	6.43076E-01	3.37694E-02	2.84352E-02		2.72586E-02 2.8570		
EXSC	D1XM3	D1XM3-SC133-1-00	SIM3_01 505998.62 5043191.6 62.70	36.58	1.88	12.12	291.48	3.19667E-01	2.78368E-01	5.14461E-01	5.14461E-01	2.72516E-02	2.29843E-02		2.18076E-02 2.2856		
EXSC	D1XM3	D1XM3-SC133-2-00	SIM3_02 505991.04 5043188.6 62.70	36.58	1.88	12.12	291.48	3.19667E-01	2.78368E-01	5.14461E-01	5.14461E-01	2.72516E-02	2.29843E-02		2.18076E-02 2.2856		
EXSC	D1XM3	D1XM3-SC133-3-00	SIM3_03 505984.47 5043185.6 62.70	36.58	1.88	12.12	291.48	3.19667E-01	2.78368E-01	5.14461E-01	5.14461E-01	2.72516E-02	2.29843E-02		2.18076E-02 2.2856		
EXSC	D1XM3	D1XM3-SC133-4-00	SIM3_04 505977.82 5043183 62.70	39.62	1.88	12.12	291.48	3.19667E-01	2.78368E-01	5.14461E-01	5.14461E-01	2.72516E-02	2.29843E-02		2.18076E-02 2.2856		
EXSC	D1XM3	D1XM3-SC133-5-00	SIM3_05 505971.18 5043180.4 62.70	39.62	1.88	12.12	291.48	3.19667E-01	2.78368E-01	5.14461E-01	5.14461E-01	2.72516E-02	2.29843E-02		2.18076E-02 2.2856		
EXSC	D1XM4	D1XM4-SC133-1-00	SCM4_01 506068.7 5042972.3 62.70	39.62	1.88	12.12	291.48	9.19674E-02	7.66395E-02	1.72533E-01	1.72533E-01	1.86870E-02	1.57693E-02		1.45926E-02 7.7895		
EXSC	D1XM4	D1XM4-SC133-2-00	SCM4_02 506069.8 5042969.6 62.70	39.62	1.88	12.12	291.48	9.19674E-02	7.66395E-02	1.72533E-01	1.72533E-01	1.86870E-02	1.57693E-02	1.75104E-02			
EXSC	D1XM4	D1XM4-SC133-3-00	SCM4_03 506070.9 5042966.8 62.70	39.62	1.88	12.12	291.48	9.19674E-02	7.66395E-02	1.72533E-01	1.72533E-01	1.86870E-02	1.57693E-02		1.45926E-02 7.7895		
EXSC	MSB-1	MSB-SC133-1	SCMB1_01 506416.14 5043153.3 62.70	43.89	1.78	13.54	291.48	1.47261E-02	1.22717E-02	1.47261E-03	1.47261E-03	4.36109E-03	3.83572E-03		2.63083E-03 9.3961		
EXSC	MSB-1	MSB-SC133-2	SCMB1_02 506420.41 5043143 62.70	43.89	1.78	13.54	291.48	1.47261E-02	1.22717E-02	1.47261E-03	1.47261E-03	4.36109E-03	3.83572E-03		2.63083E-03 9.3961		
EXSC	MSB-1	MSB-SC133-3	SCMB1_03 506425.25 5043133.9 62.70	43.89	1.78	13.54	291.48	1.47261E-02	1.22717E-02	1.47261E-03	1.47261E-03	4.36109E-03	3.83572E-03		2.63083E-03 9.3961		
EXSC	F15	F15-SC7-1-1	SCF15_01 508970.09 5037706.6 69.40	22.25	1.52	10.09	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.08611E-02	1.75085E-02		1.67654E-02 5.9960		
EXSC	F15	F15-SC7-1-2	SCF15_02 508953.09 5037716.1 69.40	22.25	1.52	10.09	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.08611E-02	1.75085E-02		1.67654E-02 5.9960		
EXSC	F15	F15-SC7-1-3	SCF15_03 508941.71 5037722.6 69.40	22.25	1.52	14.29	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.11718E-02	1.78192E-02		1.67664E-02 5.9960		
EXSC	F15	F15-SC7-1-4	SCF15_04 508924.01 5037732.8 69.40	22.25	1.52	14.29	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.11718E-02	1.78192E-02		1.67664E-02 5.9960		
EXSC	F15	F15-SC7-1-5	SCF15_05 508911.28 5037740.1 69.40	22.25	1.52	10.09	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.08611E-02	1.75085E-02	2.01180E-02			
EXSC	F15	F15-SC7-1-6	SCF15_06 508895.74 5037748.8 69.40	22.25	1.52	10.09	291.48	9.39726E-02	7.83105E-02	9.39726E-03	9.39726E-03	2.08611E-02	1.75085E-02		1.67654E-02 5.9960		
EXAM	D1C	D1C Combined Modeling Stack	AMDC_01 506695.47 5043411.2 62.70	19.81	0.66	16.12	291.48	1.81283E-02	1.51069E-02	3.40090E-02	3.40090E-02	3.54575E-03	2.97061E-03		2.87720E-03 3.2325		
EXAM	D1C	D1C Combined Modeling Stack	AMDC_02 506698.1 5043411.1 62.70	19.81	0.66	16.12	291.48	1.81283E-02	1.51069E-02	3.40090E-02	3.40090E-02	3.54575E-03	2.97061E-03		2.87720E-03 3.2325 2.87720E-03 3.2325		
EXAM EXAM	D1C D1C	D1C Combined Modeling Stack D1C Combined Modeling Stack	AMDC_03 506701.33 5043411.4 62.70 AMDC_04 506703.89 5043411.1 62.70	19.81 19.81	0.66 0.66	16.12 16.12	291.48 291.48	1.81283E-02 1.81283E-02	1.51069E-02 1.51069E-02	3.40090E-02 3.40090E-02	3.40090E-02 3.40090E-02	3.54575E-03 3.54575E-03	2.97061E-03 2.97061E-03		2.87720E-03 3.2325 2.87720E-03 3.2325		
EXAM	D1C D1C	D1C Combined Modeling Stack D1C Combined Modeling Stack	AMDC 05 506707.26 5043411.1 62.70	19.81	0.66	16.12	291.48 291.48	1.81283E-02 1.81283E-02	1.51069E-02 1.51069E-02	3.40090E-02 3.40090E-02	3.40090E-02 3.40090E-02	3.54575E-03 3.54575E-03	2.97061E-03 2.97061E-03		2.87720E-03 3.2325 2.87720E-03 3.2325		
EXAM	RB1	D1C Combined Modeling Stack D1C Combined Modeling Stack	AMDC_05 506707.26 5043411.2 62.70 AMRB1_AM 506629.85 5043628.4 62.70	19.81 28.96	0.66	29.43	291.48 291.48	1.81283E-02 1.08770E-01	9.06414E-02	3.40090E-02 2.04054E-01	3.40090E-02 2.04054E-01	3.54575E-03 2.12376E-02	1.77868E-02		2.87720E-03 3.2325 1.72626E-02 1.9395		
EXAM	RP1	RP1-SC142-1-100	AMRP1 01 506690.2 5043528.4 62.70	28.96 25.91	1.41	29.43 2.18	291.48 291.48	1.08770E-01 1.16625E-02	9.06414E-02 9.71878E-03	2.04054E-01 2.18791E-02	2.04054E-01 2.18791E-02	2.12376E-02 2.27432E-03	1.77868E-02 1.90431E-03		1.72626E-02 1.9395 1.85089E-03 2.0795		
EXAM	D1D	D1D Combined Modeling Stack	AMDD 01 506485.47 5043408.8 62.70	25.91 31.39	0.91	2.18 6.32	291.48 291.48	5.13635E-02	9.71878E-03 4.28029E-02	9.63589E-02	9.63589E-02	9.90388E-03	8.27433E-03		1.85089E-03 2.0795 8.14979E-03 9.1588		
EXAM	D1D D1D	D1D Combined Modeling Stack D1D Combined Modeling Stack	AMDD 02 506481.52 5043406.8 62.70	31.39	0.91	6.32	291.48	1.71212E-02	4.26029E-02 1.42676E-02	3.21196E-02	3.21196E-02	3.30129E-03	2.75811E-03		2.71660E-03 3.0529		
EXAM	D1D D1D	D1D Combined Modeling Stack D1D Combined Modeling Stack	AMDD_02 506481.52 5043406.8 62.70 AMDD_03 506477.28 5043404.9 62.70	31.39	0.91	6.32	291.48	1.71212E-02 1.71212E-02	1.42676E-02 1.42676E-02	3.21196E-02	3.21196E-02	3.30129E-03	2.75811E-03 2.75811E-03		2.71660E-03 3.0529 2.71660E-03 3.0529		
EXAM	D1D D1D	D1D Combined Modeling Stack D1D Combined Modeling Stack	AMDD 04 506601.3 5043283.4 62.70	31.39	0.91	6.32 15.40	291.48 291.48	2.14015E-02	1.42676E-02 1.78345E-02	4.01496E-02	3.21196E-02 4.01496E-02	4.37217E-03	3.69319E-03		2.71660E-03 3.0529 3.39969E-03 3.8161		
EXAM	D1D	D1D Combined Modeling Stack	AMDD_05 506602.26 5043281.5 62.70	31.39	0.91	15.40	291.48	2.14015E-02 2.14015E-02	1.78345E-02	4.01496E-02	4.01496E-02	4.37217E-03 4.37217E-03	3.69319E-03		3.39969E-03 3.8161		
EXAM	D1D D1D	D1D Combined Modeling Stack D1D Combined Modeling Stack	AMDD 06 506603.37 5043279.8 62.70	31.39	0.91	15.40	291.48	2.14015E-02 2.14015E-02	1.78345E-02	4.01496E-02	4.01496E-02	4.37217E-03 4.37217E-03	3.69319E-03		3.39969E-03 3.8161		
EXAM	D1D D1D	D1D Combined Modeling Stack D1D Combined Modeling Stack	AMDD 07 506604.53 5043277.9 62.70	31.39	0.91	15.40	291.48	2.14015E-02 2.14015E-02	1.78345E-02	4.01496E-02	4.01496E-02	4.37217E-03 4.37217E-03	3.69319E-03		3.39969E-03 3.8161		
EXAM	D1XM1	D1X-SC142-1-11	AMM1 01 506346.36 5043324.1 62.70	36.58	1.37	9.58	291.48	6.81147E-02	5.67622E-02	1.27785E-01	1.27785E-01	1.31769E-02	1.10160E-02		1.08084E-02 1.2145		
EXAM	D1XM1	D1X-SC142-2-11	AMM1_02 506344.9 5043327.6 62.70	36.58	1.37	9.58	291.48	6.81147E-02	5.67622E-02	1.27785E-01	1.27785E-01	1.31769E-02	1.10160E-02	1.29694E-02			
EXAM	D1XM1	D1X-SC142-2-11 D1X-SC142-3-11	AMM1_03 506343.08 504332.1 62.70	36.58	1.37	9.58	291.48	6.81147E-02	5.67622E-02	1.27785E-01	1.27785E-01	1.31769E-02	1.10160E-02		1.08084E-02 1.2145		
EXAM	D1XM1	D1X-SC142-3-11	AMM1_04 506360.5 5043330.8 62.70	36.58	1.37	9.58	291.48	6.81147E-02	5.67622E-02	1.27785E-01	1.27785E-01	1.31769E-02	1.10160E-02		1.08084E-02 1.2145		
EXAM	D1XM1	D1X-SC142-5-00	AMM1_05 506355.3 5043335.7 62.70	36.58	1.37	22.76	291.48	6.81147E-02	5.67622E-02	1.27785E-01	1.27785E-01	1.34790E-02	1.13180E-02		1.08034E-02 1.2145 1.08132E-02 1.2145		
EXAM	D1XM1	D1XM2-SC142-1-00	AMM2_01 506187.92 5043246.9 62.70	36.58	1.37	9.58	291.48	5.17538E-02	4.31282E-02	9.70912E-02	9.70912E-02	1.00626E-02	8.42063E-03		8.21306E-03 9.2284		
EXAM	D1XM2	D1XM2-SC142-1-00	AMM2_02 506186.56 5043250.5 62.70	36.58	1.37	9.58	291.48	5.17538E-02	4.31282E-02	9.70912E-02	9.70912E-02 9.70912E-02	1.00626E-02	8.42063E-03		8.21306E-03 9.2284		
EXAM	D1XM2	D1XM2-SC142-3-00	AMM2_03 506185.06 5043254.2 62.70	36.58	1.37	9.58	291.48	5.17538E-02	4.31282E-02	9.70912E-02	9.70912E-02 9.70912E-02	1.00626E-02	8.42063E-03		8.21306E-03 9.2284		
EXAM	D1XM2	D1XM2-SC142-3-00	AMM2_04 506182.82 5043258 62.70	36.58	1.37	22.76	291.48	5.17538E-02	4.31282E-02	9.70912E-02 9.70912E-02	9.70912E-02 9.70912E-02	1.00626E-02	8.42063E-03		8.21306E-03 9.2284		
EXAM	D1XM2 D1XM3	D1XM3-SC142-1-00	AMM3 01 505959.16 5043172 62.70	36.58	1.99	10.77	291.48	1.26880E-01	1.05734E-01	2.38030E-01	2.38030E-01	2.46654E-02	2.06400E-02		2.01352E-02 2.2624		
EXAM	D1XM3	D1XM3-SC142-1-00	AMM3_02 505952.13 5043169.5 62.70	36.58	1.99	10.77	291.48	1.26880E-01	1.05734E-01	2.38030E-01	2.38030E-01	2.46654E-02	2.06400E-02		2.01352E-02 2.2624 2.01352E-02 2.2624		
EXAM	D1XM3	D1XM3-SC142-3-00	AMM3 03 505945.16 5043167 62.70	39.62	1.99	10.77	291.48	1.26880E-01	1.05734E-01	2.38030E-01	2.38030E-01	2.46654E-02	2.06400E-02		2.01352E-02 2.2624 2.01352E-02 2.2624		
EXAM	D1XM3	D1XM3-SC142-3-00	AMM3_04 505938.19 5043164.5 62.70	39.62	1.99	10.77	291.48	1.26880E-01	1.05734E-01	2.38030E-01	2.38030E-01	2.46654E-02	2.06400E-02		2.01352E-02 2.2624 2.01352E-02 2.2624		
EXAM	D1XM4	D1XM4 Combined Modeling Stack	AMM4_01 506071.6 5042964.5 62.70	39.62	1.88	4.85	291.48	2.08021E-02	1.73351E-02	3.90253E-02	3.90253E-02	4.30184E-03	3.64187E-03		3.30532E-02 2.2024 3.7093		
EXAM	D1XM4	D1XM4 Combined Modeling Stack	AMM4 02 506072.9 5042962.1 62.70	39.62	1.88	4.85	291.48	2.08021E-02	1.73351E-02	3.90253E-02	3.90253E-02	4.30184E-03	3.64187E-03		3.30532E-03 3.7093 3.30532E-03 3.7093		
									1.73351E-02 1.73351E-02	3.90253E-02	3.90253E-02	4.30184E-03	3.64187E-03				
EXAM	D1XM4	D1XM4 Combined Modeling Stack	AMM4_03 506074.19 5042959.7 62.70	39.62	1.88	4.85	291.48	2.08021E-02	1.7 3331 = 0.2	3.9UZnaE-UZ	3.902:33=-07			3.900Z9E-U.1	3.30532E-03 3.7093	E-04 3.09109	96-04

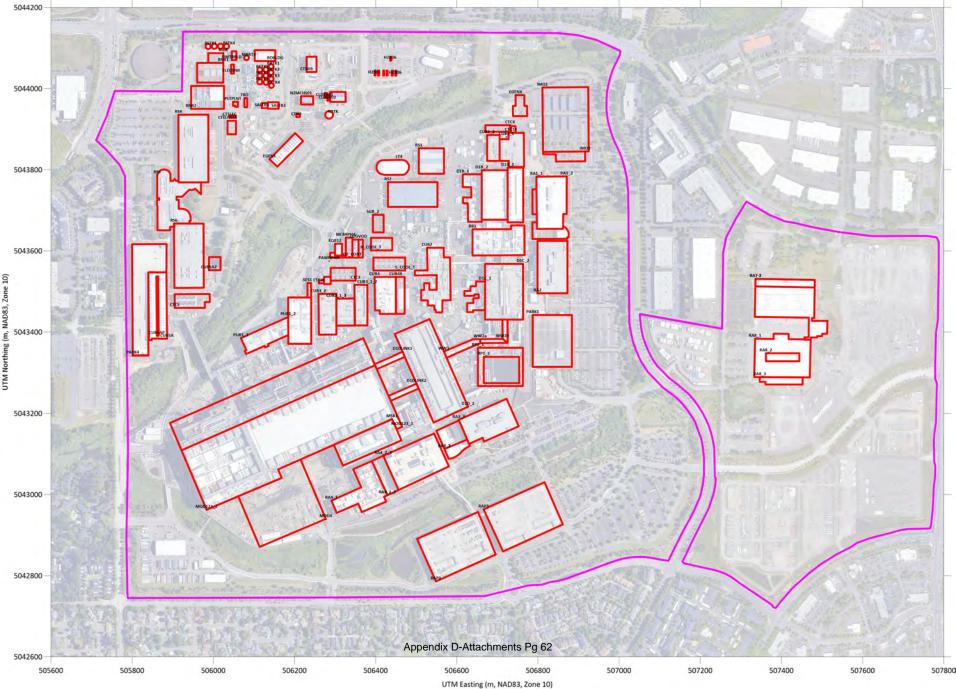
HEATER	RA3	RA3 Combined Modeling Stack	HER3 M 506679.8 5043176.5	62.70 24.9	9 0.15	5.00	422.04	1.96659E-01	9.83294E-02	1.65193E-01	1.65193E-01	4.91647E-03	2.45824E-03	4.91647E-03	2.45824E-03 5.1	11313E-03	2.55656E-03
HEATER	RS4	RS4 Combined Modeling Stack	HERS4_M 505951 5043852.3	62.70 18.2	9 0.15	5.00	422.04	5.07706E-02	2.53853E-02	4.26473E-02	4.26473E-02	1.26926E-03	6.34632E-04	1.26926E-03	6.34632E-04 1.3	32004E-03	6.60018E-04
HEATER	RS5	RS5 Combined Modeling Stack	HERS5_M 505915.2 5043725.7	62.70 18.2		5.00	422.04	9.13994E-02	4.56997E-02	7.67755E-02		2.28499E-03	1.14249E-03			37638E-03	1.18819E-03
HEATER	RS6	RS6 Combined Modeling Stack	HERS6_M 505939.9 5043588.1	62.70 18.2		5.00	422.04	3.89118E-02	1.94559E-02	3.26859E-02		9.72794E-04	4.86397E-04		4.86397E-04 1.0		5.05853E-04
HEATER	LT4	Lunch Tent Combined Modeling Stack	HELT4_M 506443.2 5043804.3	62.70 12.5		5.00	422.04	3.53912E-02	1.76956E-02	2.97286E-02		8.84779E-04	4.42390E-04		4.42390E-04 9.2		4.60085E-04
HEATER	Aloha	Aloha Combined Modeling Stack	HEAL_M 509091.1 5037889	69.40 14.0		5.00	422.04	3.63300E-02	1.81650E-02	3.05172E-02		9.08250E-04	4.54125E-04		4.54125E-04 9.4		4.72290E-04
HEATER	RS2	RS2 Combined Modeling Stack		62.70 13.1		5.00	422.04	3.95294E-02	1.97647E-02	3.32047E-02		9.88235E-04	4.94118E-04			02776E-03	5.13882E-04
HEATER	RA1	RA1 Combined Modeling Stack		62.70 16.4		5.00	422.04	1.85294E-03	9.26471E-04	1.55647E-03		4.63235E-05	2.31618E-05			81765E-05	2.40882E-05
HEATER HEATER	CUB4 PUB1	CUB 4 Heater PUB1 Heater		62.70 24.0 62.70 31.7		5.00 5.00	422.04 422.04	3.70588E-03 1.85294E-02	1.85294E-03 9.26471E-03	3.11294E-03 1.55647E-02		9.26471E-05 4.63235E-04	4.63235E-05 2.31618E-04		4.63235E-05 9.6 2.31618E-04 4.8	81765E-04	4.81765E-05 2.40882E-04
HEATER	CUB5	CUB 5 Heater		62.70 31.7		5.00	422.04	1.85294E-02 1.85294E-02	9.26471E-03 9.26471E-03	1.55647E-02		4.63235E-04 4.63235E-04	2.31618E-04			81765E-04	2.40882E-04
TMXW	CUB3	CUB3 - OX293-0-70		62.70 8.5		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04		3.24265E-04 3.2		3.24265E-04
TMXW	PUB1	PUB1A-OX293-0-70	TMXW 02 506166.41 5043393	62.70 8.5		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04			24265E-04	3.24265E-04
TMXW	PUB1	PUB1B-OX293-0-70	TMXW 03 506100.6 5043326.9	62.70 8.5		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04			24265E-04	3.24265E-04
TMXW	PUB1	PUB1C-OX293-0-70	TMXW_04 506116.6 5043305.7	62.70 8.5	3 0.38	16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03	3.96900E-03	3.24265E-04	3.24265E-04	3.24265E-04	3.24265E-04 3.2	24265E-04	3.24265E-04
TMXW	PUB1	PUB1D-OX293-0-70	TMXW_05 506025.2 5043301.6	62.70 8.5	3 0.38	16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03	3.96900E-03	3.24265E-04	3.24265E-04	3.24265E-04	3.24265E-04 3.2	24265E-04	3.24265E-04
TMXW	PUB1	PUB1E-OX293-0-70		62.70 8.5		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04		3.24265E-04 3.2	24265E-04	3.24265E-04
TMXW	PUB1	PUB1F-OX293-0-70	TMXW_07 505992.2 5043284.9	62.70 8.5		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04			24265E-04	3.24265E-04
TMXW	CUB2	CUB2-OX293-0-70	_	62.70 11.6		16.95	394.26	4.28400E-02	4.28400E-02	3.96900E-03		3.24265E-04	3.24265E-04		3.24265E-04 3.2		3.24265E-04
TMXW	CUB3	CUB3 - OX293B-0-70	TMC3_02 506300.9 5043548.9	62.70 8.5		16.95	394.26	9.07200E-03	9.07200E-03	0.00000E+00		0.00000E+00	0.00000E+00		0.00000E+00 0.0		0.00000E+00
COOLTOW	CUB4 CUB4	RAC4-CT114-1	CTC4_01 506401.76 5043561.2 CTC4 02 506401.71 5043576.1	62.70 15.5 62.70 15.5		4.85 4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03 5.41311E-03	1.45806E-03 1.45806E-03		6.43262E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB4	RAC4-CT114-2 RAC4-CT114-3	CTC4_02 506401.71 5043576.1 CTC4 03 506414.44 5043561.5	62.70 15.5		4.85	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0 6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-4	CTC4_03 500414.44 5043501.5 CTC4_04 506414.44 5043576.3	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-5	CTC4_05 506427.26 5043561.4	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-6	CTC4_06 506427.31 5043576.2	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-7	CTC4 07 506440.14 5043561.6	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-8	CTC4_08 506439.99 5043576.2	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	5.41311E-03	1.45806E-03	1.92516E-05	6.43262E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB4	RAC4-CT114-9	CTC4_09 506452.81 5043561.7	62.70 15.5	4 8.53	4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	5.41311E-03	1.45806E-03	1.92516E-05	6.43262E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB4	RAC4-CT114-10	CTC4_10 506452.76 5043576.5	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-11	CTC4_11 506465.78 5043561.8	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-12	CTC4_12 506465.78 5043576.5	62.70 15.5		4.85	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4 CUB4	RAC4-CT114-13 RAC4-CT114-14	CTC4_13 506396.77 5043625.1	62.70 15.5 62.70 15.5		8.74 8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03 1.45806E-03		6.43262E-06 0.0 6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4	RAC4-CT114-14 RAC4-CT114-15		62.70 15.5		8.74 8.74	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		5.41311E-03 5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB4	RAC4-CT114-16		62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4X	RAC4-CT114-17		62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB4X	RAC4-CT114-18		62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03	1.92516E-05	6.43262E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB4X	RAC4-CT114-19	CTC4_19 506434.65 5043625.2	62.70 15.5	4 8.53	8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	5.41311E-03	1.45806E-03	1.92516E-05	6.43262E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB4X	RAC4-CT114-20	CTC4_20 506435 5043610.5	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-1	CTC5_01 505911.75 5043470.7	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-2	CTC5_02 505911.42 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-3	CTC5_03 505924.57 5043470.7	62.70 15.5		8.74 8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5 CUB5	RAC5-CT115-4 RAC5-CT115-5	CTC5_04 505924.24 5043486 CTC5_05 505937.39 5043470.7	62.70 15.5 62.70 15.5		8.74	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		5.41311E-03 5.41311E-03	1.45806E-03 1.45806E-03		6.43262E-06 0.0 6.43262E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB5	RAC5-CT115-6	CTC5 06 505937.06 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-7	CTC5 07 505950.21 5043470.7	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-8	CTC5_08 505949.88 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-9	CTC5_09 505963.03 5043470.7	62.70 15.5	4 8.53	8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	5.41311E-03	1.45806E-03	1.92516E-05	6.43262E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB5	RAC5-CT115-10	CTC5_10 505962.7 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03				0.00000E+00
COOLTOW	CUB5	RAC5-CT115-11	CTC5_11 505975.85 5043470.7	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-12	CTC5_12 505975.52 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-13	CTC5_13 505988.67 5043470.7 CTC5 14 505988.34 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5 CUB5	RAC5-CT115-14 RAC5-CT115-15	CTC5_14 505988.34 5043486 CTC5 15 506001.49 5043470.7	62.70 15.5 62.70 15.5		8.74 8.74	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		5.41311E-03 5.41311E-03	1.45806E-03 1.45806E-03		6.43262E-06 0.0 6.43262E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB5	RAC5-CT115-16	CTC5 16 506001.16 5043486	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB5	RAC5-CT115-17	CTC5 17 506014.31 5043470.7	62.70 15.5		8.74	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.41311E-03	1.45806E-03		6.43262E-06 0.0		0.00000E+00
COOLTOW	CUB3	CT-114-1-210	CTC3 01 506294.64 5043534.7	62.70 5.1		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03	2.09421E-03		9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3	CT-114-2-210	CTC3_02 506306.48 5043534.7	62.70 5.1	3.56	17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.77412E-03	2.09421E-03	2.76485E-05	9.23917E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB3	CT-114-3-210	CTC3_03 506318.32 5043534.8	62.70 5.1	3.56	17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.77412E-03	2.09421E-03	2.76485E-05	9.23917E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB3	CT-114-4-210		62.70 5.1		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03	2.09421E-03		9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3	CT-114-5-210		62.70 5.1		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.09421E-03		9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3X	CUB3-CT114-21-10		62.70 5.1		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03	2.09421E-03		9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3X CUB3X	CUB3-CT114-22-10 CUB3-CT114-23-10		62.70 5.13 62.70 5.13		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03 7.77412E-03	2.09421E-03 2.09421E-03		9.23917E-06 0.0 9.23917E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB3X CUB3X	CUB3-CT114-23-10 CUB3-CT114-24-10		62.70 5.10 62.70 5.10		17.21 17.21	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		7.77412E-03 7.77412E-03	2.09421E-03 2.09421E-03		9.23917E-06 0.0 9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3X CUB3X	CUB3-CT114-24-10 CUB3-CT114-25-10		62.70 5.1		17.21	293.15	0.00000E+00 0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03 7.77412E-03	2.09421E-03		9.23917E-06 0.0 9.23917E-06 0.0		0.00000E+00
COOLTOW	CUB3X	CUB3-CT114-26-10		62.70 5.1		17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00		7.77412E-03 7.77412E-03	2.09421E-03		9.23917E-06 0.0		0.00000E+00
COOLTOW	RP1	RP1-CT114-1-200		62.70 13.7		12.13	293.15	0.00000E+00	0.00000E+00	0.00000E+00		3.88201E-03	1.04547E-03		4.61238E-06 0.0		0.00000E+00
COOLTOW	RP1	RP1-CT114-2-200	_	62.70 13.7		12.13	293.15	0.00000E+00	0.00000E+00	0.00000E+00		3.88201E-03	1.04547E-03		4.61238E-06 0.0		0.00000E+00
COOLTOW	RP1	RP1-CT114-3-00		62.70 13.7	2 3.05	12.13	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	3.88201E-03	1.04547E-03	1.38063E-05	4.61238E-06 0.0	00000E+00	0.00000E+00
COOLTOW	RA4	RA4-CT113-1-10		62.70 22.2		14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.65391E-03	1.52306E-03		6.71940E-06 0.0		0.00000E+00
COOLTOW	RA4	RA4-CT113-2-10		62.70 22.2		14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.65391E-03	1.52306E-03		6.71940E-06 0.0		0.00000E+00
COOLTOW	RA4	RA4-CT113-3-10		62.70 22.2		14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.65391E-03	1.52306E-03		6.71940E-06 0.0		0.00000E+00
COOLTOW	RA4 RA4	RA4-CT113-4-10	_	62.70 22.2		14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00		5.65391E-03	1.52306E-03		6.71940E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	RA4 RA4	RA4-CT113-5-10 RA4-CT113-6-10	CTR4_05 506370.63 5043063 CTR4_06 506375.5 5043065	62.70 22.2 62.70 22.2		14.94 14.94	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00		5.65391E-03 5.65391E-03	1.52306E-03 1.52306E-03		6.71940E-06 0.0 6.71940E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-1-210		62.70 8.8		7.58	293.15	0.00000E+00 0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-1-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-3-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-4-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00					9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-5-210	CTC2_05 506506.05 5043561.1	62.70 8.8	4 3.35	7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03	4.52431E-05	9.59914E-06 0.0	00000E+00	0.00000E+00
COOLTOW	CUB2	CUB2-CT114-6-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-7-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00		1.27213E-02	2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-8-210		62.70 8.8		7.58	293.15	0.00000E+00	0.00000E+00	0.00000E+00					9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2	CUB2-CT114-9-210 CUB2-CT114-10-210		62.70 8.8		7.58 10.25	293.15 293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2 CUB2X	CUB2-CT114-10-210 CUB2-CT114-11-10		62.70 9.4 62.70 9.4		10.25 20.51	293.15 293.15	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00			2.17580E-03 2.17580E-03		9.59914E-06 0.0 9.59914E-06 0.0		0.00000E+00 0.00000E+00
COOLTOW	CUB2X	CUB2-CT114-11-10 CUB2-CT114-12-10		62.70 9.4		10.25	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
COOLTOW	CUB2X	CUB2-CT114-13-10		62.70 9.4		10.25	293.15	0.00000E+00	0.00000E+00	0.00000E+00			2.17580E-03		9.59914E-06 0.0		0.00000E+00
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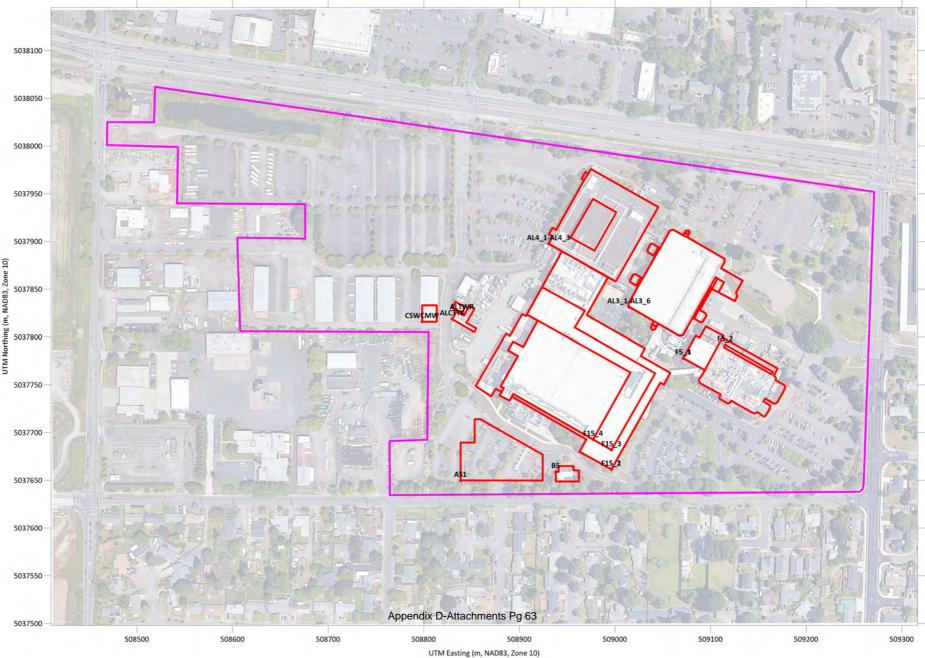
COOLTOW CUB2X	CUB2-CT114-14-10	CTC2 14 506494.34 5043590.4	62.70	9.45	3.35	10.25	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.31251E-02	2.17580E-03	4 66794F-05	9.59914E-06 0	00000F+00	0.00000E+00
COOLTOW CUB1	F20-CT114-1-210	CTC1 01 506674.28 5043903	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03	4.52431E-05	9.59914E-06 0	0.00000E+00	0.00000E+00
COOLTOW CUB1	F20-CT114-2-210	CTC1_02 506681.59 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-3-210	CTC1 03 506685.56 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-4-210	CTC1 04 506692.61 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-5-210	CTC1_05 506696.57 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-6-210	CTC1 06 506703.62 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-7-210	CTC1 07 506707.59 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-8-210	CTC1 08 506714.32 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-9-210	CTC1 09 506718.29 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-10-210	CTC1 10 506724.66 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.27213E-02	2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW CUB1	F20-CT114-11-210	CTC1_11 506728.63 5043904	62.70	8.84	3.35	10.26	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00		2.17580E-03		9.59914E-06 0		0.00000E+00
COOLTOW N2 Plant	N2-CT114-1	CTN2 01 506333.46 5043970.9	62.70	5.18	3.56	6.42	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW N2 Plant	N2-CT114-1 N2-CT114-2	CTN2_01 500333.40 5043970.9 CTN2_02 506210.58 5043933.9	62.70	5.18	3.56	6.42	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91667E-03		1.28676E-05 0		0.00000E+00
COOLTOW N2 Plant	N2-CT114-2 N2-CT114-3	CTN2_02 506210.38 5043933.9 CTN2_03 506247.14 5044080.6	62.70	5.18	3.56	6.42	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91667E-03		1.28676E-05 0		0.00000E+00
COOLTOW PCB-1	RACB3-CT-114-1-35	CTCB 01 506297 5043636	62.70	5.18	3.56	17.21	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.77412E-03	2.09421E-03		9.23917E-06 0		0.00000E+00
COOLTOW PCB-1	RACB3-CT-114-1-35	_	62.70	5.18	3.56	17.21	293.15		0.00000E+00	0.00000E+00	0.00000E+00	7.77412E-03 7.77412E-03	2.09421E-03		9.23917E-06 0		0.00000E+00
COOLTOW PCB-1	RACB3-CT-114-2-35	CTCB_02 506298 5043639 CTCB 03 506299 5043642	62.70	5.18	3.56	17.21	293.15	0.00000E+00 0.00000E+00		0.00000E+00	0.00000E+00	7.77412E-03 7.77412E-03	2.09421E-03		9.23917E-06 0		0.00000E+00
COOLTOW PCB-1	RAWTR1-CH918-1-11	CTWTR 01 506036.99 5043917.3	62.70	22.25	3.66	14.94	293.15		0.00000E+00 0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
		CTWTR_01 506036.99 5043917.3 CTWTR 02 506041.55 5043917.6	62.70					0.00000E+00				1.08262E-02					
	RAWTR1-CH918-2-11	_		22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00		2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-3-11	CTWTR_03 506049.25 5043917.6	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03	3.85033E-05			0.00000E+00
COOLTOW WATR	RAWTR1-CH918-4-11	CTWTR_04 506053.37 5043917.4	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03	3.85033E-05			0.00000E+00
COOLTOW WATR	RAWTR1-CH918-5-11	CTWTR_05 506037.1 5043904	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03	3.85033E-05			0.00000E+00
COOLTOW WATR	RAWTR1-CH918-6-11	CTWTR_06 506041.66 5043904.3	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-7-11	CTWTR_07 506048.6 5043904.5	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-8-11	CTWTR_08 506053.48 5043904.4	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-9-11	CTWTR_09 506036.74 5043892.3	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-10-11	CTWTR_10 506042.65 5043892.3	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-11-11	CTWTR_11 506049.21 5043892.6	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW WATR	RAWTR1-CH918-12-11	CTWTR_12 506053.84 5043892.3	62.70	22.25	3.66	14.94	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.08262E-02	2.91612E-03		1.28652E-05 0		0.00000E+00
COOLTOW AL4	AL4-CHW-CT2	CTA4_01 508843.13 5037820.4	69.40	7.10	2.44	8.28	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.57220E-04	4.07963E-04		1.79984E-06 0		0.00000E+00
COOLTOW AL4	AL4-CHW-CT3	CTA4_02 508850.11 5037827.2	69.40	7.10	2.44	8.28	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.57220E-04	4.07963E-04		1.79984E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-1	CTF15_01 508966.76 5037839.6	69.40	11.43	2.84	8.28	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	3.63465E-03	1.27285E-03		5.61549E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-2	CTF15_02 508958.95 5037844.1	69.40	11.43	2.84	8.28	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	3.63465E-03	1.27285E-03		5.61549E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-3	CTF15_03 508949.3 5037849.6	69.40	11.43	3.35	9.55	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	6.17386E-03	1.27285E-03		5.61549E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-4	CTF15_04 508937.84 5037856.2	69.40	11.43	3.35	9.55	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	6.17386E-03	1.27285E-03		5.61549E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-5	CTF15_05 508941.56 5037862.4	69.40	11.43	3.35	9.55	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	6.17386E-03	1.27285E-03		5.61549E-06 0		0.00000E+00
COOLTOW F15	F15-CT29-1-6-1	CTF15_06 508973.89 5037851.8	69.40	11.43	2.13	4.54	293.15	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.11059E-03	2.28459E-04		1.00791E-06 0		0.00000E+00
PSSS D1B	F20-SC-134-1-100	PSDB_01 506665.95 5043736	62.70	28.96	1.07	5.47	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	6.83472E-04	6.83472E-04	2.24838E-06	2.24838E-06 0	0.00000E+00	0.00000E+00
PSSS D1C	D1C Combined Modeling Stack	PSDC_M 506678.31 5043478.3	62.70	23.47	0.91	2.13	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	7.45606E-04	7.45606E-04	2.45278E-06	2.45278E-06 0	0.00000E+00	0.00000E+00
PSSS D1D	D1D Combined Modeling Stack	PSDD_M 506495 5043302.7	62.70	27.13	0.91	7.09	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.11841E-03	1.11841E-03	3.67917E-06	3.67917E-06 0	0.00000E+00	0.00000E+00
PSSS CUB2	D1C-SC133-1-200	SCC2_01 506538.3 5043483.1	62.70	14.02	0.25	27.58	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	6.21338E-05	6.21338E-05	2.04398E-07	2.04398E-07 0	0.00000E+00	0.00000E+00
PSSS RP1	RP1-SC134-1-100	PSRP1_01 506719.16 5043351.4	62.70	25.91	1.07	6.57	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	5.21924E-04	5.21924E-04	1.71694E-06	1.71694E-06 0	0.00000E+00	0.00000E+00
PSSS CUB3	SC-133-1-200	SCC3_01 506269.27 5043482.1	62.70	13.72	0.46	17.02	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.24268E-04	1.24268E-04	4.08796E-07	4.08796E-07 0	0.00000E+00	0.00000E+00
PSSS D1XM1	D1XM1 Combined Modeling Stack	PSM1_M 506292.09 5043322.5	62.70	20.50					0.00000 - 00	0.00000 - 00	0.00000 - 00					1 00000E 1 00	0.00000E+00
	2 17 till 1 Combined incusing Class	F3W1_W 300292.09 3043322.3	62.70	36.58	1.27	3.31	287.04	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.98828E-03	1.98828E-03	6.54074E-06	6.54074E-06 0	J.00000⊑+00	0.00000L100
PSSS D1XM2	D1XM2 Combined Modeling Stack	PSM2_M 506132.4 5043250.6	62.70	36.58	1.27	3.31	287.04 287.04	0.00000E+00 0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.98828E-03	1.98828E-03	6.54074E-06	6.54074E-06 0	0.00000E+00	0.00000E+00
PSSS D1XM3	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3	62.70 62.70	36.58 36.58	1.27 1.27	3.31 3.31	287.04 287.04	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03	1.98828E-03 1.98828E-03	6.54074E-06 6.54074E-06	6.54074E-06 0 6.54074E-06 0	0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1	62.70 62.70 62.70	36.58 36.58 30.02	1.27 1.27 1.88	3.31 3.31 3.83	287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03	1.98828E-03 1.98828E-03 1.18054E-03	6.54074E-06 6.54074E-06 3.88357E-06	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0	0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5	62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02	1.27 1.27 1.88 1.88	3.31 3.31 3.83 3.83	287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6	62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27	1.27 1.27 1.88 1.88 0.91	3.31 3.31 3.83 3.83 6.47	287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7	62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27	1.27 1.27 1.88 1.88 0.91 0.91	3.31 3.31 3.83 3.83 6.47 6.47	287.04 287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829	62.70 62.70 62.70 62.70 62.70 62.70 69.40	36.58 36.58 30.02 30.02 36.27 36.27 22.25	1.27 1.27 1.88 1.88 0.91 0.91 1.07	3.31 3.31 3.83 3.83 6.47 6.47 9.07	287.04 287.04 287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07 4.08796E-07	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 0	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1	62.70 62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-2-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7	62.70 62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07 4.08796E-07 1.18551E-06	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 PSSS F15 PSSS F15 PSSS F15	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 9.38905E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 5.63690E-05 1	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5 FIPH2_01 506319.9 5043633.7	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13	3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 9.69600E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.87593E-07 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508898.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13	3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 2.57178E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556	62.70 62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10	3.31 3.81 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.3282ZE-03 5.06338E-03 4.89853E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.8740E-02 9.93573E-04	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-05	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 2.57178E-04 3 1.36106E-05 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.18034E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043656.	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.13 0.10 0.15 0.25	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 2.57178E-04 3 1.36106E-05 3 1.10466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.18034E-04 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_01 506791 5043639.4	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25	3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 7.75391E-02 1.62918E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03	6.54074E-06 6.54074E-06 3.88357E-06 8.17593E-07 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.36106E-05 3 1.10466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN RA1 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.9 PSF15_02 508893.72 5037782.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5 FIPH2_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_01 506791 5043634.8 EGR1_02 506791 5043636.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 2.57178E-04 1 3.6106E-05 3 1.10466E-03 3 1.10466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.9 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_01 506791 5043642.8 EGR1_02 506791 5043636.3 EGR1_04 506791 5043632.9	62.70 62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.62918E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.8740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 505986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 505849.77 5043556 EGR1_01 506791 5043632.4 EGR1_02 506791 5043639.4 EGR1_03 506791 5043633.9 EGR1_04 506673.31 5043433.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.54816E+00 3.54816E+00 4.96944E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 1.24268E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.28502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 2.69717E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 505849.77 5043556 EGR1_02 506791 5043636.3 EGR1_03 506791 5043633.4 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043438.4	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.38082E-03 2	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 2.69717E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN02 D1C-CPS-GEN02 D1C-CPS-GEN02	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 50377829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043656.2 EGR1_02 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043438.4	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01	6.54074E-06 0 6.54074E-06 3.88357E-06 0 8.17593E-07 0 4.08796E-07 1 1.18551E-06 0 5.63690E-05 1.10466E-03 3 1.38082E-03 2 1.38082E-03 2	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 2.69717E-03 2.69717E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN D1C EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN02 D1C-CPS-GEN03 D1C-CPS-GEN03 D1C-EPS-GEN03	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.9 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506896.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_01 506791 5043642.8 EGR1_02 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_03 506673.31 5043431.9	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 60.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 5.17437E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.8740E-01 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.01634E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.01834E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 1.36106E-05 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.38082E-03 2 1.38082E-03 2 6.90644E-04 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.2950717E-03 2.69717E-03 3.91579E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN D1C EGEN D1C EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-1-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_03 506791 5043636.3 EGR1_04 506791 504363.3 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043438.4 EGDC_04 506673.33 5043413.9 EGDC_04 506673.33 5043451.9	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 738.15	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 2.01741E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 5.17437E-01 5.17437E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.90644E-04 6.90644E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 3.88357E-06 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.0466E-03 3	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 2.69717E-03 2.69717E-03 2.69717E-03 3.91579E-03 3.91579E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN RA1 EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN02 D1C-CPS-GEN01 D1C-CPS-GEN02 D1C-CPS-GEN02 D1C-CPS-GEN02 D1C-CPS-GEN03 D1C-EPS-GEN01 D1C-EPS-GEN02 RB1-EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037752.1 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 505849.77 5043556 EGR1_02 506791 504363.3 EGR1_03 506791 504363.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043313.9 EGDC_02 506673.31 5043439.3 EGDC_03 506673.31 5043439.3 EGDC_04 506673.31 5043439.3 EGDC_05 506673.33 5043513.9 EGDC_05 506673.33 5043513.9 EGRR1_01 506638.99 5043634.1	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.48	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 2.94541E+00 8.94771E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 4.13950E-01 6.15155E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 7.90020E-02	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 6.90644E-04 5.41110E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 7.90020E-02	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.38082E-03 2 1.38082E-03 2 6.90644E-04 0 5.41110E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN D1C EGEN D1C EGEN D1C EGEN D1C EGEN RB1 EGEN RB1 EGEN RB1 EGEN RB1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 50377829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043656.3 EGR1_02 506791 5043634.8 EGR1_03 506791 5043632.9 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043438.4 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_05 506673.33 5043513.9 EGDC_05 506673.33 5043513.9 EGDC_05 506673.33 5043513.9 EGRP1_01 506651.54 5043269.7	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 28.96 12.896	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 742.18 961.48 961.48 738.15 738.15 740.93 790.37	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 4.89258E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 2.01741E-02 2.1741E-02 6.12857E-02 3.35108E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.15155E-01 8.74440E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01 1.09305E+00	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-01 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.09320E-02 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.90920E-02 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 4.10466E-03 3 5.38082E-03 2 6.90644E-04 3 6.90644E-04 4 6.90644E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 2.98262E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 RB1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.9 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH2_01 506319.9 5043633.7 FIC5_01 505849.77 5043556 EGR1_01 506791 5043642.8 EGR1_02 506791 5043642.8 EGR1_03 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_04 506673.33 5043431.9 EGDC_05 506673.33 5043512.9 EGRB1_01 506651.54 5043269.7 EGRP1_01 506651.54 5043269.7	62.70 62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 20.42 2	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.49 961.48 961.49 961.48	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 2.94541E+00 8.94771E+00 8.94771E+00 4.89258E+00 4.66502E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.50566666666666666666666666666666666666	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.15155E-01 8.74440E-01 1.97366E+00	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.00000E+00 1.000000E+00 1.000000E+00 1.000000000E+00 1.0000000000000000000000000000000000	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 5.04000E-02	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 5.41110E-04 9.49315E-04 3.45205E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01 5.04000E-02	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 1 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.38082E-03 2 6.90644E-04 3 5.41110E-04 4 9.49315E-04 4 3.45205E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.43747E-03 2.69717E-03 2.69717E-03 3.91579E-03 4.35462E-03 4.35462E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 2.98262E-05 2.98262E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-1-00 PUB1-SC7-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 508983.72 5037829 PSF15_02 508893.72 5037829 PSF15_02 508893.72 5037829 PSF15_02 508895.9 503783.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FICS_01 506814.61 5043923 FICS_01 506849.77 5043556 EGR1_02 506791 504363.9 EGR1_03 506791 504363.9 EGR1_04 506791 504363.9 EGR1_04 506791 504363.9 EGR1_04 506791 504363.9 EGR1_04 506791 504363.9 EGDC_02 506673.31 5043439.4 EGDC_03 506673.31 5043439.4 EGDC_04 506673.33 5043437.6 EGDC_04 506673.33 5043313.9 EGDC_05 506673.33 5043313.9 EGRR1_01 506638.99 5043634.1 EGRP1_01 506651.54 5043269.7 EGRP1_02 506651.54 5043267.2 EGRP1_02 506651.54 5043263.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 20.42 20	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.48 961.48 961.48	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 8.94771E+00 4.89258E+00 4.6502E+00 4.6502E+00 4.50450E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 2.01741E-02 6.12857E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.35108E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 8.74440E-01 1.97366E+00 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01 1.99305E+00 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 7.90020E-02 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.35205E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07 1.18551E-06 1.18551E-06 1.18551E-06 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 7.90020E-02 1.38600E-01 5.04000E-02	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 4.381082E-03 2 4.381082E-03 2 4.381082E-03 2 4.3820E-04 4 5.41110E-04 4 9.49315E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03 4.39502E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 2.98262E-05 2.98262E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-PS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037752.1 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 506849.77 5043556 EGR1_02 506791 504366.3 EGR1_03 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043437.6 EGDC_05 506673.33 5043513.9 EGDC_05 506673.33 5043513.9 EGRP1_01 506639.89 5043362.3 EGRP1_02 506651.54 5043269.7 EGRP1_02 506651.54 5043267.2 EGDD_01 506659.98 5043352.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.48 738.15 738.15 738.37 790.37 790.37	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00 4.9694E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 4.13950E-01 6.15155E-01 8.74440E-01 1.97366E+00 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+01 1.68493E-01 1.68493E-01 1.68493E-01 1.68493E-01 1.99305E+00 2.46708E+00 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 5.04000E-02 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 5.41110E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.0080E-02 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 2 1.38082E-03 2 1.38082E-03 2 6.90644E-04 6 6.90644E-04 9 9.49315E-04 4 9.49315E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.35462E-03 4.35462E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 2.98262E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1 EGEN D1C	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 P1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.9 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FICS_01 506814.61 5043923 FICS_01 506849.77 5043642.8 EGR1_02 506791 5043642.8 EGR1_03 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_04 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043438.4 EGDC_06 506673.31 5043437.6 EGDC_07 506673.31 5043437.6 EGDC_08 506673.31 5043437.6 EGDC_09 506673.31 5043437.6 EGDC_09 506673.31 5043437.6 EGDC_01 506669.38 5043351.9 EGRP1_01 506651.54 5043267.2 EGDD_01 506569.98 5043352.3 EGDD_02 506569.98 5043352.3 EGDD_03 506569.98 5043352.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 742.04 742.04 742.04 742.03 742.04 742.04 742.04 742.04 742.04 742.04 742.04 742.04 761.48 961.48 761.48 761.48 761.48 761.48	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 2.94541E+00 4.9694E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.1515E-01 8.74440E-01 1.97366E+00 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01 1.99305E+00 2.46708E+00 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.0080E-01 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 5.41110E-04 9.49315E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 1 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 3 1.10466E-03 3 4.38082E-03 2 6.90644E-04 3 4.9315E-04 4 9.49315E-04 4 9.49315E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01134E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN B1C EGEN D1C EGEN D1D EGEN RP1 EGEN D1D EGEN EGEN D1D EGEN EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-PS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN02 EPS-GEN03 EPS-GEN03	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 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20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.93 790.37 790.37 790.37 707.65	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 8.94771E+00 8.94771E+00 4.9694E+00	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.8527E-02 3.88527E-02 3.88527E-02 3.88527E-02 3.88527E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 5.17437E-01 5.17437E-01 5.17437E-01 5.169843E-01 2.46708E+00 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.8740E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 5.41110E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 2.57178E-04 2 1.36106E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.38082E-03 2 6.90644E-04 3 6.90644E-04 3 5.41110E-04 4 9.49315E-04 4 9.49315E-04 4 9.49315E-04 4 9.49315E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 3.01194E-05 2.98262E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN D1C EGEN D1D EGEN EGEN D1D EGEN EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN04 D1C-CPS-GEN02 D1C-CPS-GEN01 D1C-CPS-GEN01 P1C-CPS-GEN02 D1C-CPS-GEN02 D1C-CPS-GEN03 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN02 EPS-GEN03 EPS-GEN03 EPS-GEN03 EPS-GEN04 EPS-GEN04 EPS-GEN05	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037829 PSF15_02 508893.72 5037829 PSF15_01 506319.9 5043633.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043635.6 FIPH2_01 506319.9 5043636.3 FICS_01 506849.77 5043656.8 EGR1_02 506791 5043636.3 EGR1_03 506791 5043632.9 EGR1_04 506791 5043632.9 EGDC_05 506673.31 5043433.8 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043437.6 EGDC_06 506673.31 5043437.6 EGDC_07 506651.54 5043269.7 EGRP1_08 506651.54 5043269.7 EGRP1_09 506569.98 5043352.3 EGDD_00 506569.98 5043352.3 EGDD_00 506569.98 5043352.3 EGDD_00 506569.98 5043352.3 EGDD_00 506569.98 5043352.3	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 60.19 60.19 12.51 35.67 35.67 35.67 62.95 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.93 790.37 790.37 790.37 790.37 707.65 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 8.94771E+00 4.6502E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.5108E-02 3.35108E-02 3.35108E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01 1.99305E+00 2.46708E+00 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.038600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 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4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 2.98262E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 CRB1-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037752.1 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 506849.77 5043556 EGR1_02 506791 5043632.9 EGR1_03 506791 5043633.4 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043437.6 EGRR1_01 506638.99 5043632.9 EGRR1_01 506669.33 5043513.9 EGRR1_01 506669.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 738.15 738.15 738.15 738.15 740.93 790.37 707.65 707.65 707.65	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.9694E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.1741E-02 2.01741E-02 2.01741E-02 2.01741E-02 3.19522E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 4.13950E-01 6.15155E-01 8.74440E-01 1.97366E+00 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.836325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.949315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 4.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18650E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 1.38082E-03 2 4.3815E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 3.00000E+00 0.00000E+00 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.35462E-03 4.35462E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.35663E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 RB1-EPS-GEN01 D1C-EPS-GEN02 RB1-EPS-GEN01 D1C-EPS-GEN03 D1C-EPS-GEN01 D1C-EPS-GEN03 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 50377829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FICS_01 506849.77 5043656.8 EGR1_02 506791 5043642.8 EGR1_03 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043438.4 EGDC_02 506673.31 5043439.3 EGDC_02 506673.31 5043437.6 EGDC_04 506673.33 5043513.9 EGDC_05 506673.31 5043513.9 EGDC_06 506673.31 5043438.4 EGDC_07 506651.54 5043267.2 EGRB1_01 506659.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 742.04 742.04 742.04 742.04 742.04 742.04 742.05 765.37 770.65 707.65 707.65 707.65 707.65 707.65 707.65 707.65	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 2.94541E+00 2.94541E+00 4.9694E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.19522E-02 3.19522E-02 3.8527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02 3.08527E-02	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.0000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 6.15155E-01 8.74440E-01 1.97366E+00 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.000000E+00 1.00000000 1.00000000000 1.0000000000	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 5.41110E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 4.118551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 1 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 4.110466E-03 3 4.110466E	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.3525E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 2.98262E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #4 EGEN RA1 EGEN RA1 EGEN RA1 EGEN RA1 EGEN B1C EGEN D1C EGEN D1D EGEN RP1 EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-1-00 PUB1-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN03 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 P1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN03 EPS-GEN03 EPS-GEN03 EPS-GEN04 EPS-GEN06 EPS-GEN07 RS4-ELEC-EPS-GEN07	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FICS_01 505849.77 5043556 EGR1_02 506791 5043663.3 EGR1_04 506791 504363.3 EGR1_04 506791 504363.3 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGDC_04 506673.33 5043437.6 EGDC_04 506673.33 5043437.6 EGDC_04 506673.33 5043437.6 EGDC_05 506673.31 5043439.4 EGR1_01 506651.54 5043267.2 EGRB1_01 506651.54 5043267.2 EGDD_01 506569.98 5043352.3 EGDD_02 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGRS4_01 506001.58 5043791.3	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.5 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 738.15 738.15 940.93 790.37 790.37 707.65 707.65 707.65 707.65 707.65 707.65 707.65 707.65 707.65 940.93	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.9694E+00 4.9696E+00 4.50450E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.1741E-02 6.12857E-02 3.35108E-02 3.19522E-02 3.08527E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.97366E+01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+01 5.17437E-01 7.68943E-01 1.99305E+00 2.46708E+00 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 4.11494E-03 3.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.345205E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 1.18551E-06 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 1.38082E-03 2 4.345205E-04 4 9.49315E-04 4	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.01194E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN D1C EGEN RB1 EGEN D1D EGEN RD1 EGEN D1D EGEN EGEN B1D EGEN EGEN B34	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-2-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 ER1-EPS-GEN01 D1C-EPS-GEN02 D1C-EPS-GEN03 D1C-EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508898.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506319.9 5043636.3 FICS_01 505849.77 5043556 EGR1_02 506791 504366.3 EGR1_03 506791 5043636.3 EGR1_04 506791 5043632.9 EGDC_01 506673.31 5043438.4 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043437.6 EGRP1_01 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGDD_01 506569.98 5043352.3 EGDD_02 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGRS4_07 506569.98 5043352.3 EGRS4_07 506569.98 5043352.3 EGRS4_07 506569.98 5043352.3	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.42 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 961.48 961.48 961.48 961.48 978.15 738.15 738.15 738.15 790.37 707.65 707.65 707.65 707.65 707.65 707.65 707.65 707.65 707.65 940.93 940.93	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96945E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.1741E-02 2.01741E-02 2.01741E-02 3.35108E-02 3.35108E-02 3.35108E-02 3.08527E-02	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.3658E-01 8.74440E-01 1.97366E+00 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.323036E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+01 1.9305E+01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01 1.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 3.60376E-04 1.36106E-05 1.0466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.9315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 7.90020E-02 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18651E-06 0 1.18651E-06 0 1.10466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 4.3815E-04 4 9.49315E-04 6 4.48226E-04 6 6.48226E-04 6	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.35462E-03 4.35462E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04 6.86525E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.53663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 2.98262E-05 3.01194E-05 2.98262E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN D1D EGEN EGEN B1D EGEN EGEN B1D EGEN EGEN RS6 EGEN RS6	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN04 EPS-GEN05 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-4-1 RS6-ELEC-EG-6-1	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 5037782.1 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.52 5043796.5 FIPH2_01 506814.61 5043923 FICS_01 506849.77 5043656.3 EGR1_02 506791 5043632.9 EGR1_03 506791 5043632.9 EGR1_04 506791 5043632.9 EGDC_04 506673.31 5043438.4 EGDC_03 506673.31 5043439.3 EGDC_04 506673.31 5043439.3 EGDC_05 506673.31 5043437.6 EGR1_01 506651.54 504362.8 EGRP1_02 506651.54 5043269.7 EGRP1_01 506659.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGRS4_01 508987.76 504356.8	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 69.40 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.55 35.05 35.05 35.05 35.05 35.05 5.49 5.49	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 743.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 738.15 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 4.96944E+00 4.96944E+00 4.96954E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 1.11878E+00 1.11878E+00 1.11878E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.32822E-03 1.32822E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.19522E-02 3.19522E-02 3.08527E-02	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.15155E-01 8.74440E-01 1.97366E+00 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.0000E+00 1.00166E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+01 1.9305E+01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.949315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 4.10466E-03 4 1.38082E-03 2 6.90644E-04 3 4.94315E-04 4 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49574E-03 2.69717E-03 2.69717E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.3525E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-06 4.70223E-06 4.70223E-06 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN D1C EGEN RB1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN D1D EGEN EGEN B1B	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 RB1-EPS-GEN01 D1C-EPS-GEN02 RB1-EPS-GEN01 D1C-EPS-GEN03 D1C-EPS-GEN03 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN05 EPS-GEN05 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-4-1 RS6-ELEC-EG-6-1 RS6-EEN-2 D1X-GEN-1A	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 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0.00000E+00 0.00000E+00 1.000000E+00 1.000000000 1.0000000000000 1.0000000000	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 3.60376E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.94315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 4.118551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 3 1.10466E-03 4 1.38082E-03 2 6.90644E-04 3 4.9315E-04 4 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.49315E-04 9	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.68205E-05 2.98262E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 3.02137E-05 4.70223E-06 4.70223E-06 4.70223E-06 4.70223E-06 4.70223E-06 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN D1C EGEN RB1 EGEN D1D EGEN EGEN B1D EGEN EGEN B1X EGEN1 EGEN B1X EGEN1 EGEN D1X EGEN1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN03 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 P1-EPS-GEN02 RB1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN03 EPS-GEN03 EPS-GEN03 EPS-GEN04 EPS-GEN05 EPS-GEN07 RS4-ELEC-CPS-GEN04 EPS-GEN07 RS4-ELEC-CPS-GEN04 EPS-GEN07 RS4-ELEC-EG-6-1 RS6-GEN-2 D1X-GEN-1A D1X-GEN-1B	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508868.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH2_01 506319.9 5043633.7 FICS_01 506849.77 5043556 EGR1_02 506791 5043663.3 EGR1_02 506791 504363.3 EGR1_04 506791 504363.3 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_04 506673.31 5043437.6 EGDC_05 506673.31 5043437.6 EGDC_06 506673.31 5043437.6 EGDC_07 506651.54 5043267.2 EGRP1_02 506651.54 5043267.2 EGDD_01 506569.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGRS4_01 506001.58 5043791.3 EGRS6_01 506907.77 5043558.8 EGRS6_02 50615.79 5043820.5 EGRS6_02 50615.79 5043858.8 EGRS6_02 50615.79 5043820.3 EGRS6_02 50615.79 5043858.8 EGEI_01 506155.26 5043820.5 EGEI_01 506155.26 5043820.5 EGEI_01 506155.79 5043858.8 EGEI_01 506155.26 5043820.5 EGEI_01 506155.26 5043820.3 EGDI_02 506155.79 5043858.8 EGEI_01 506155.26 5043820.5 EGEI_01 506155.26 5043820.3 EGEI_01 5061	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 69.70 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.42 20.5 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92 10.92 10.92 10.92 10.92 18.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 978.15 978.15 978.15 979.37 970.37 970.37 790.65 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.9694E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 6.02317E+00 6.02317E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.1741E-02 6.12857E-02 3.35108E-02 3.35108E-02 3.08527E-02	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+01 1.9736E+00 6.69060E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 5.17437E-01 7.68943E-01 1.99305E+00 2.46708E+00 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 3.60376E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 1.18551E-06 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 6.90644E-04 4 6.90644E-04 4 9.49315E-04 6 9.49315E-04 6 9.49315E-04 6 9.52826E-04 6 6.52826E-04 6 5.52826E-04 6 5.52826E-04 6	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04 6.86525E-04 6.86525E-04 6.86525E-04 6.555336E-03 5.555336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 3.25686E-05 3.25686E-05 3.25686E-05 3.25686E-05 3.2137E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN D1D EGEN RB1 EGEN D1D EGEN RB1 EGEN D1D EGEN EGEN B1D EGEN B36 EGEN B1A	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-PS-GEN02 EN1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN05 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-6-1 RS6-GEN-2 D1X-GEN-1A D1X-GEN-1B D1X-GEN-1C	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508898.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 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29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92 10.92 10.92 10.92 10.92 18.19 18.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 738.15 738.15 730.37 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.9694E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 1.11878E+00 1.11878E+00 6.02317E+00 6.02317E+00 6.02317E+00	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.8527E-02 3.08527E-02 4.12546E-02 4.12546E-02 4.12546E-02	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 4.13950E-01 4.13950E-01 6.9960E-01 6.69060E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.86943E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.0834E-01 1.38600E-01 1.38500E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.9315E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 4.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 7.90020E-02 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18551E-06 0 1.18650E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 1.38082E-03 2 4.949315E-04 4 9.49315E-04 6 6.8226E-04 6 6.8226E-04 6 5.52826E-04 6 5.52826E-04 6 5.52826E-04 6 5.52826E-04 6	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 5.555336E-03 5.555336E-03 5.555336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.98262E-05 3.01194E-05 2.98262E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN RP1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN D1D EGEN EGEN RS6 EGEN RS6 EGEN RS6 EGEN RS6 EGEN RS6 EGEN D1X EGEN1 EGEN D1X EGEN1	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 EPS-GEN01 EP	PSM2_M 506132.4 5043250.6 PSM3_M 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EGE1_02 506153.79 5043822.3 EGD1_04 506158.66 5043827.6	62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 69.40 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.55 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92 10.92 10.92 10.92 10.92 10.92 18.19 18.19 18.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 738.15 738.15 738.15 738.15 738.15 738.15 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 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8.74440E-01 1.97366E+00 6.69060E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.0000E+00 1.77363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.836325E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 6.90644E-04 6.90644E-04 9.49315E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 2.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 4.10466E-03 3 4.10466E-03 4 4.94915E-04 4 9.49315E-04 5 9.49315E-04 5 9.49315E-04 5 5.52826E-04 5 5.52826E-04 5 5.52826E-04 5 5.52826E-04 5 5.52826E-04 5	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49574E-03 2.69717E-03 2.69717E-03 2.69717E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04 4.41119E-03 6.86525E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 3.02137E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN D1D EGEN EGEN RP1 EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC134-1-00 PUB1-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN03 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-6-1 RS6-GEN-2 D1X-GEN-1A D1X-GEN-1B D1X-GEN-1C D1X-GEN-1B D1X-GEN-1C	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_02 508893.72 5037829 PSF15_02 508893.72 5037829 PSF15_02 508893.72 503783.7 FIRS4_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FIC5_01 505849.77 5043556 EGR1_02 506791 5043663.3 EGR1_04 506791 5043663.3 EGR1_04 506791 5043633.9 EGDC_02 506673.31 5043438.4 EGDC_03 506673.31 5043438.4 EGDC_03 506673.31 5043437.6 EGR1_01 506638.99 5043634.1 EGRP1_02 506651.54 5043267.2 EGDD_01 506650.98 5043632.3 EGDD_02 506669.98 5043352.3 EGDD_02 506669.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGRS6_01 506987.77 5043560.5 EGRS6_02 505987.77 5043560.5 EGRS6_02 505987.77 5043560.5 EGE1_02 506160 5043820.3 EGE1_03 506160 5043820.3 EGE1_03 506160 5043820.3 EGE1_03 506160 5043820.3 EGE1_03 506160 5043820.3 EGE1_04 506158.66 5043827.6 EGE1_04 506158.66 5043827.6 EGE1_05 506164.13 5043829.9	62.70 62.70 62.70 62.70 69.40 69.40 69.40 69.70 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.5 35.05 35.	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 35.67 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.5 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.9694E+00 4.9694E+00 4.50450E+00 6.02317E+00 6.02317E+00 6.02317E+00 6.02317E+00 6.02317E+00 6.02317E+00	0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.1741E-02 6.12857E-02 3.35108E-02 3.19522E-02 3.08527E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.9736E+01 8.74440E-01 1.9736E+00 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 7.06234E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+01 5.17437E-01 7.68943E-01 8.36325E-01	1.98828E-03 1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 5.63690E-05 2.57178E-04 1.36106E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 1.38082E-03 1.38082E-03 4.345205E-04 9.49315E-04 9.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 1.18551E-06 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 7.90020E-02 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 4 1.38082E-03 2 1.38082E-03 2 1.38082E-03 2 4.3815E-04 4 9.49315E-04 5 5.52826E-04 5	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 6.86525E-04	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 3.24738E-05 1.84738E-05 1.84738E-05 1.84738E-05 3.01194E-05 3.02137E-05 3.0367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN D1C EGEN RB1 EGEN RB1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN02 D1C-CPS-GEN01 D1C-CPS-GEN02 D1C-CPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN03 EPS-GEN03 EPS-GEN04 EPS-GEN05 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-4-1 RS6-ELEC-EG-6-1 RS6-GEN-2 D1X-GEN-1A D1X-GEN-1B D1X-GEN-1B D1X-GEN-12 B01X-GEN-2B D1X-GEN-2B D1X-GEN-2B D1X-GEN-2B	PSM2_M 506132.4 5043250.6 PSM3_M 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1.10466E-03 1 1.4046E-03 1 1.4046E-	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 1.98771E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 4.4917E-03 4.35462E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 5.555336E-03 5.555336E-03 5.555336E-03 5.555336E-03 5.555336E-03 5.555336E-03 5.555336E-03 5.555336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 2.68205E-05 2.98262E-05 3.02137E-05 3.0367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN RD1 EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-12 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN03 EPS-GEN01 EPS-GEN01 RP1-GEN-2 EPS-GEN04 EPS-GEN05 EPS-GEN05 EPS-GEN06 D1D-GEN-7 RS4-ELEC-EG-4-1 RS6-ELEC-EG-6-1 RS6-GEN-2 D1X-GEN-1A D1X-GEN-1B D1X-GEN-1C D1X-GEN-2C	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 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0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92 10.92 10.92 10.92 10.92 10.92 18.19 18.19 18.19 18.19 18.19 18.19 18.19	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 742.04 738.15 738.15 738.15 738.15 738.15 738.15 740.93 790.37 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.9694E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 1.11878E+00 1.11878E+00 6.02317E+00	0.0000E+00 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PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN RP1 EGEN RP1 EGEN RP1 EGEN RP1 EGEN RD1D EGEN EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 RP1-GEN-2 EPS-GEN03 EPS-GEN04 EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 EPS-GEN01 EPS-GE	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 50377829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.32 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 506849.77 5043656.3 EGR1_02 506791 5043663.3 EGR1_04 506791 5043632.9 EGR1_03 506791 5043632.9 EGR0_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_03 506673.31 5043439.3 EGDC_04 506673.31 5043437.6 EGDC_04 506673.31 5043439.3 EGDC_05 506673.33 5043513.9 EGRE1_01 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_01 506659.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGRS_01 506987.77 5043858.8 EGE1_01 506155.26 5043820.5 EGRS_02 506987.77 5043858.8 EGE1_01 506155.66 5043820.5 EGRS_02 506987.77 5043858.8 EGE1_01 506153.79 5043822.3 EGDD_05 506569.98 5043352.3 EGRS_02 506987.77 5043852.3 EGRS_02 506162.5 5043822.9 EGE1_04 506158.66 5043822.7 EGE1_05 506164.13 5043829.9 EGE1_06 506162.5 5043832.6 EGE1_07 506168.77 5043832.6	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.55 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 60.19 12.51 35.67 35.67 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 738.15 738.15 738.15 738.15 738.15 707.65	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 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7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+01 1.09305E+01 8.36325E-01 8.363	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 8.07125E-02	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 9.49315E-04 9.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 4.08796E-07 4.08796E-07 1.18551E-06 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 0.46410E-02 9.46410E-02	6.54074E-06 0 6.54074E-06 3 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 1 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 4 4.94915E-04 4 9.49315E-04 5 5.2826E-04 5 5.52826E-04 5	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 5.55336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 3.02137E-05 3.0367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RP1 EGEN D1D EGEN EGEN D1D E	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-1-7 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN03 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 RP1-EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS-GEN01 EPS-GEN02 EPS-GEN01 EPS	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508968.32 5037829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506319.9 5043633.7 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20.42 20.42 20.42 20.42 20.55 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 29.65 29.65 29.65 60.19 60.19 12.51 35.67 35.67 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 62.95 10.92	287.04 742.04 742.04 742.04 742.04 742.04 961.48 961.48 961.48 961.48 961.48 738.15 738.15 738.15 740.93 790.37 707.65	0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1.65392E-01 3.54816E+00 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 1.11878E+00 1.11878E+00 1.11878E+00 1.11878E+00 1.11878E+00 1.11878E+00 6.02317E+00	0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.1741E-02 6.12857E-02 3.35108E-02 3.19522E-02 3.08527E-02 3.12546E-02 4.12546E-02	0.0000E+00 0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.37440E-01 1.9736E+00 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.17363E-01 5.38516E-02 1.00186E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+01 1.99305E+00 2.46708E+00 8.36325E-01 8.363	1.98828E-03 1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.38600E-01	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 3.60376E-04 3.60376E-04 3.60376E-04 1.36106E-05 1.10466E-03 1.38082E-03 1.38082E-04 5.41110E-04 9.49315E-04 9.52826E-04 5.52826E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 0 6.54074E-06 0 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.0466E-03 3 1.10466E-03 3 1.40466E-03 3 1.4046E-04 3 1.38082E-03 2 1.38082E-03 2 1.38082E-03 2 1.38082E-03 4 9.49315E-04 5 5.52826E-04 5	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 5.55336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.50325E-06 4.50325E-06 4.50325E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 3.25686E-05 3.25686E-05 3.25686E-05 3.25686E-05 3.25686E-05 3.02137E-05 3.0367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05
PSSS D1XM3 PSSS D1XM4 PSSS D1XM4 PSSS D1XM4 PSSS PUB1 PSSS PUB1 PSSS F15 PSSS F15 PSSS F15 EGEN Pump House #1 EGEN Pump House #2 EGEN Pump House #3 EGEN Pump House #4 EGEN RA1 EGEN B1C EGEN D1C EGEN RB1 EGEN RP1 EGEN RP1 EGEN RP1 EGEN RP1 EGEN RD1D EGEN EGEN D1D EGEN	D1XM2 Combined Modeling Stack D1XM3 Combined Modeling Stack D1XM4-SC134-1-00 D1XM4-SC133-1-00 PUB1-SC133-1-00 PUB1-SC133-2-00 F15-SC7-2-12 F15-SC7-2-17 F15-SC7-2-7 PH #1 PH #2 PH #3 PH #4 RA1-ELEC-CPS-GEN01 RA1-ELEC-CPS-GEN02 RA1-ELEC-CPS-GEN03 RA1-ELEC-CPS-GEN04 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-CPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 D1C-EPS-GEN01 EPS-GEN01 D1C-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-GEN-2 EPS-GEN01 EPS-GEN01 EPS-GEN01 EPS-GEN01 RP1-GEN-2 EPS-GEN03 EPS-GEN04 EPS-GEN01 EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 RP1-EPS-GEN01 EPS-GEN01 EPS-GE	PSM2_M 506132.4 5043250.6 PSM3_M 505977.34 5043186.3 PSM4_01 506073.33 5042961.1 PSM4_02 506075.24 5042957.5 SCPB1_01 506190.72 5043438.6 SCPB1_02 506194.51 5043438.7 PSF15_01 508893.72 50377829 PSF15_02 508893.72 5037752.1 PSF15_03 508805.99 5037833.7 FIRS4_01 506986.32 5043796.5 FIPH2_01 506319.9 5043633.7 FIPH1_01 506814.61 5043923 FICS_01 506849.77 5043656.3 EGR1_02 506791 5043663.3 EGR1_04 506791 5043632.9 EGR1_03 506791 5043632.9 EGR0_01 506673.31 5043439.3 EGDC_02 506673.31 5043439.3 EGDC_03 506673.31 5043439.3 EGDC_04 506673.31 5043437.6 EGDC_04 506673.31 5043439.3 EGDC_05 506673.33 5043513.9 EGRE1_01 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_02 506651.54 5043269.7 EGRP1_01 506659.98 5043352.3 EGDD_03 506569.98 5043352.3 EGDD_04 506569.98 5043352.3 EGDD_05 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_07 506569.98 5043352.3 EGDD_06 506569.98 5043352.3 EGRS_01 506987.77 5043858.8 EGE1_01 506155.26 5043820.5 EGRS_02 506987.77 5043858.8 EGE1_01 506155.66 5043820.5 EGRS_02 506987.77 5043858.8 EGE1_01 506153.79 5043822.3 EGDD_05 506569.98 5043352.3 EGRS_02 506987.77 5043852.3 EGRS_02 506162.5 5043822.9 EGE1_04 506158.66 5043822.7 EGE1_05 506164.13 5043829.9 EGE1_06 506162.5 5043832.6 EGE1_07 506168.77 5043832.6	62.70 62.70 62.70 62.70 62.70 62.70 69.40 69.40 69.40 62.70	36.58 36.58 36.58 30.02 30.02 36.27 36.27 22.25 22.25 15.24 19.81 4.57 4.57 25.30 28.96 28.96 28.96 28.96 20.42 20.42 20.42 20.42 20.42 20.42 20.55 35.05	1.27 1.27 1.88 1.88 0.91 0.91 1.07 0.61 1.07 0.13 0.13 0.10 0.15 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	3.31 3.31 3.83 3.83 3.83 6.47 6.47 9.07 9.57 9.07 37.88 84.90 67.51 39.84 38.60 38.60 38.60 38.60 29.65 29.65 29.65 60.19 12.51 35.67 35.67 62.95	287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 287.04 765.37 803.71 708.15 740.37 742.04 742.04 742.04 742.04 738.15 738.15 738.15 738.15 738.15 707.65	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.65392E-01 9.69600E-02 3.69627E-01 3.57593E-01 3.54816E+00 3.54816E+00 3.54816E+00 4.96944E+00 4.96944E+00 4.96944E+00 2.94541E+00 2.94541E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 4.96944E+00 1.11878E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 4.50450E+00 1.11878E+00 1.11878E+00 6.02317E+00	0.0000E+00 2.26564E-03 1.32822E-03 5.06338E-03 4.89853E-03 2.43025E-02 2.43025E-02 2.43025E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.40373E-02 3.19522E-02 3.19522E-02 3.08527E-02 4.12546E-02	0.0000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 9.38905E-02 4.30813E-02 8.01486E-02 7.75391E-02 1.62918E+00 1.62918E+00 1.62918E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E+00 1.36584E-01 6.9060E-01 6.9060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 6.69060E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01 7.06234E-01	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.77363E-01 9.69239E-02 2.03648E+00 2.03648E+00 2.03648E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+00 1.70730E+01 1.09305E+01 8.36325E-01 8.363	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-03 2.48535E-04 2.48535E-04 1.24268E-04 3.60376E-04 4.11494E-03 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.01600E-01 2.01600E-01 2.01600E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01 8.07125E-02	1.98828E-03 1.98828E-03 1.18054E-03 1.18054E-04 2.48535E-04 1.24268E-04 3.60376E-04 3.60376E-04 5.63690E-05 5.63690E-05 1.10466E-03 1.10466E-03 1.10466E-03 1.38082E-03 1.38082E-03 6.90644E-04 6.90644E-04 9.49315E-04 9.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04 5.52826E-04	6.54074E-06 6.54074E-06 3.88357E-06 3.88357E-06 8.17593E-07 8.17593E-07 4.08796E-07 1.18551E-06 1.18551E-06 4.11494E-03 4.11494E-03 1.87740E-02 9.93573E-04 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.61280E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.00834E-01 1.38600E-01	6.54074E-06 0 6.54074E-06 3 3.88357E-06 0 8.17593E-07 0 8.17593E-07 0 4.08796E-07 1 1.18551E-06 0 1.18551E-06 0 5.63690E-05 1 5.63690E-05 1 1.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 3 4.10466E-03 4 4.94915E-04 4 9.49315E-04 5 5.2826E-04 5 5.52826E-04 5	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 1.98771E-04 3.28737E-04 3.28737E-04 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.29502E-03 3.49502E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 4.41119E-03 5.55336E-03	0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 2.72289E-06 4.35663E-06 2.25686E-05 2.25686E-05 2.25686E-05 2.25686E-05 1.84738E-05 1.84738E-05 1.84738E-05 1.84738E-05 3.02137E-05 3.0367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05 3.80367E-05

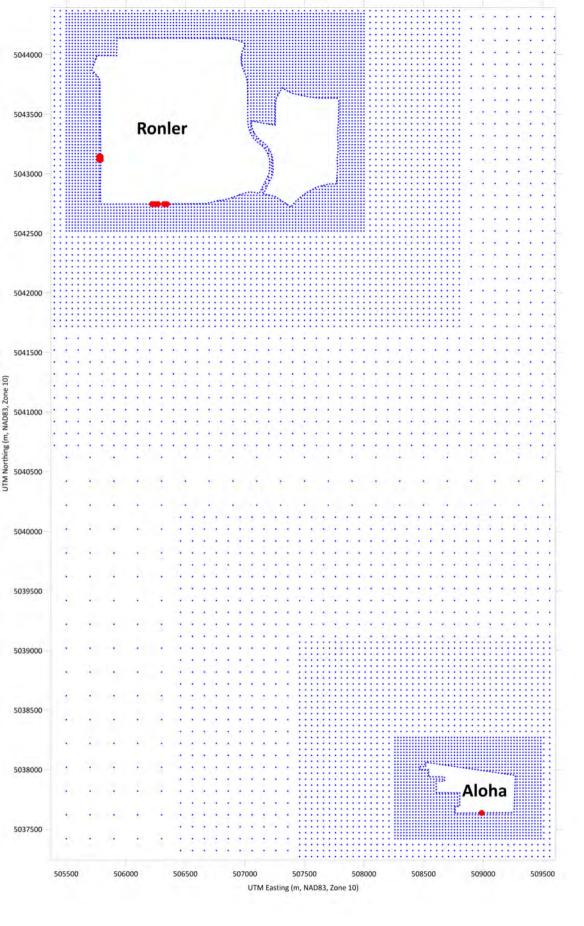
EGEN	D1X EGEN1	D1X-GEN-4B	EGE1 11 506188.4 5043858.8 62.70	15.54	0.51	18.19	715.93	6.02317E+00	4.12546E-02	7.06234E-01	8.82793E-01	8.07125E-02	5.52826E-04	8.07125E-02 5.52826E-04	5.55336E-03	3.80367E-05
EGEN	D1X EGEN1	D1X-GEN-5C	EGE1 12 506194.66 5043862 62.70	15.54	0.61	36.84	715.93	6.02317E+00	4.12546E-02	1.41247E-01	1.76559E-01	1.21069E-02	8.29238E-05		5.55336E-03	3.80367E-05
EGEN	D1X EGEN1	D1X-GEN-4C	EGE1 13 506192.64 5043863.1 62.70	15.54	0.51	18.19	715.93	6.02317E+00	4.12546E-02	7.06234E-01	8.82793E-01	8.07125E-02	5.52826E-04	8.07125E-02 5.52826E-04		3.80367E-05
EGEN	D1X EGEN1	D1X-GEN-5A	EGE1 14 506199.06 5043866.4 62.70	15.54	0.61	36.84	715.93	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.27224E-02	8.71400E-05	1.27224E-02 8.71400E-05		4.46659E-05
EGEN	D1X EGEN1	D1X-GEN-5B	EGE1 15 506197.76 5043867.4 62.70	15.54	0.61	36.84	715.93	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1X EGEN1	D1X-GEN-6A	EGE1 16 506202.67 5043870.6 62.70	15.54	0.61	36.84	715.93	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1X EGEN1	D1X-GEN-6B	EGE1 17 506201.1 5043871.7 62.70	15.54	0.61	36.84	715.93	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1X EGEN1	D1X-GEN-6C	EGE1 18 506208.48 5043875.8 62.70	15.54	0.61	36.84	715.93	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1X EGEN1	D1X-GEN-7A	EGE1 19 506206.28 5043877.6 62.70	15.54	0.51	18.19	715.93	6.02317E+00	4.12546E-02	1.41247E-01	1.76559E-01	1.21069E-02	8.29238E-05	1.21069E-02 8.29238E-05		3.80367E-05
EGEN	D1X EGEN1	D1X-GEN-7B	EGE1 20 506210.87 5043879 62.70	15.54	0.51	18.19	715.93	6.02317E+00	4.12546E-02	1.41247E-01	1.76559E-01	1.21069E-02	8.29238E-05		5.55336E-03	3.80367E-05
EGEN	D1X EGEN1	D1X-GEN-7C	EGE1 21 506208.89 5043880.9 62.70	15.54	0.51	18.19	715.93	6.02317E+00	4.12546E-02	1.41247E-01	1.76559E-01	1.21069E-02	8.29238E-05	1.21069E-02 8.29238E-05	5.55336E-03	3.80367E-05
EGEN	CUB5	D1X2-GEN-1A	EGC5 01 505880.6 5043410.9 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-1B	EGC5 02 505880.6 5043416.1 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-1C	EGC5 03 505880.6 5043424.3 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-2A	EGC5 04 505880.6 5043432.3 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-2B	EGC5 05 505880.6 5043445.1 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-2C	EGC5 06 505880.6 5043451.2 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-3A	EGC5_07 505880.6 5043456.9 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-3B	EGC5_08 505880.6 5043479.5 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-3C	EGC5 09 505880.6 5043485.6 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-4A	EGC5_10 505880.6 5043491.7 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-4B	EGC5_11 505880.6 5043497.8 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-4C	EGC5_12 505880.6 5043515.2 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-5A	EGC5_13 505880.6 5043521.3 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-5B	EGC5_14 505880.6 5043527.4 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-5C	EGC5_15 505880.6 5043532.8 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-6A	EGC5_16 505880.6 5043527.4 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-6B	EGC5_17 505880.6 5043521.3 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-6C	EGC5_18 505880.6 5043515.2 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-7A	EGC5_19 505880.6 5043497.8 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	CUB5	D1X2-GEN-7B	EGC5_20 505880.6 5043491.7 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05		5.26566E-05
EGEN	CUB5	D1X2-GEN-7C	EGC5_21 505880.6 5043485.6 62.70	25.92	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05	7.68786E-03	5.26566E-05
EGEN	D1B	F20-EPS-1	EGDB_01 506725.14 5043877.9 62.70	10.67	0.25	38.60	953.71	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1B	F20-EPS-2	EGDB_02 506725.14 5043875.1 62.70	10.67	0.25	38.60	953.71	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	D1B	F20-CPS-1	EGDB_03 506719.91 5043809.6 62.70	13.72	0.25	38.60	953.71	6.08126E+00	4.16525E-02	1.39362E+00	1.74203E+00	6.36331E-02	4.35843E-04	6.36331E-02 4.35843E-04		2.10605E-05
EGEN	F15	F15-EG01	EGF15_01 508927.12 5037851.6 69.40	19.66	0.30	23.47	779.82	3.29566E+00	2.25730E-02	1.39432E+00	1.74290E+00	6.36331E-02	4.35843E-04	6.36331E-02 4.35843E-04		2.10710E-05
EGEN	F15	F15-EG02	EGF15_02 508928.16 5037851.1 69.40	19.66	0.30	30.09	768.15	3.29566E+00	2.25730E-02	1.39432E+00	1.74290E+00	6.36331E-02	4.35843E-04	6.36331E-02 4.35843E-04		2.10710E-05
EGEN	F15	F15-EG03	EGF15_03 508929.2 5037850.5 69.40	19.66	0.30	30.09	768.15	3.29566E+00	2.25730E-02	1.39432E+00	1.74290E+00	6.36331E-02	4.35843E-04	6.36331E-02 4.35843E-04		2.10710E-05
EGEN	F5	F15.5-EG01	EGF5_01 509104.57 5037792.7 69.40	20.42	0.30	30.09	768.15	6.92244E+00	4.74140E-02	1.74132E+00	2.17665E+00	7.30800E-02	5.00548E-04	7.30800E-02 5.00548E-04		2.25477E-05
EGEN	F5	F15.5-EG02	EGF5_02 509109.61 5037797.5 69.40	20.42	0.30	30.09	768.15	8.84898E+00	6.06095E-02	1.28016E+00	1.60020E+00	6.80400E-02	4.66027E-04	6.80400E-02 4.66027E-04		2.25896E-05
EGEN	N2 Plant	N2-GEN-1A	EGN2_01 506274.7 5043906.6 62.70	6.10	0.36	36.83	829.82	9.88533E-01	6.77077E-03	8.36451E-02	1.04556E-01	5.95350E-03	4.07774E-05	5.95350E-03 4.07774E-05		6.32026E-06
EGEN	IWW	H2-GEN-1	EGH2_01 506437.39 5044073.8 62.70	7.93	0.22	27.43	770.15	3.64593E-01	2.49721E-03	8.63510E-02	1.07939E-01	3.16620E-03	2.16863E-05	3.16620E-03 2.16863E-05		4.84885E-06
EGEN	IWW	IWW-GEN-2	EGIW_01 506152.98 5044046.4 62.70	6.70	0.22	91.83	720.26	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	IWW PS	IWW-GEN-1	EGIW_02 506161.38 5044046.5 62.70	5.91	0.22	91.83	720.26	6.14881E+00	4.21151E-02	4.73897E-02	5.92371E-02	1.90837E-03	1.30710E-05	1.90837E-03 1.30710E-05		4.46659E-05
EGEN	RS7	IWW-PS-1	EGIW_03 505881.34 5043340.4 62.70	6.70	0.22	91.83	720.26	9.01821E-01	6.17685E-03	1.67781E-02	2.09726E-02	3.14589E-03	2.15472E-05	3.14589E-03 2.15472E-05		7.90687E-06
EGEN	H2 Plant	MAX-EGEN	EGRS8_01 507424.81 5043383.9 62.70	2.44	0.10	46.14	940.93	9.01821E-01	6.17685E-03	2.81963E-01	3.52454E-01	1.06055E-02	7.26405E-05	1.06055E-02 7.26405E-05		3.50834E-06
EGEN	D1A	D1A-GEN-1	EGDA_01 506754.32 5043977 62.70	23.29	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05		5.26566E-05
EGEN EGEN	D1A D1A	D1A-GEN-2 D1A-GEN-3	EGDA_02 506757.32 5043977 62.70 EGDA 03 506754.32 5043970 62.70	23.29 23.29	0.51 0.51	53.04 53.04	716.48	8.56171E+00	5.86419E-02 5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01 1.39669E-01	1.11585E-02 1.11585E-02	7.64283E-05 7.64283E-05	1.11585E-02 7.64283E-05 1.11585E-02 7.64283E-05		5.26566E-05 5.26566E-05
EGEN	D1A D1A	D1A-GEN-3 D1A-GEN-4	EGDA_03 506754.32 5043970 62.70 EGDA 04 506757.32 5043970 62.70	23.29	0.51 0.51	53.04 53.04	716.48 716.48	8.56171E+00 8.56171E+00	5.86419E-02 5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01 1.39669E-01	1.11585E-02 1.11585E-02	7.64283E-05 7.64283E-05	1.11585E-02 7.64283E-05 1.11585E-02 7.64283E-05		5.26566E-05 5.26566E-05
EGEN	D1A D1A	D1A-GEN-4 D1A-GEN-5	EGDA_04 506757.32 5043970 62.70 EGDA 05 506754.32 5043963 62.70	23.29	0.51	53.04	716.48 716.48	8.56171E+00 8.56171E+00	5.86419E-02 5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01	1.11585E-02 1.11585E-02	7.64283E-05 7.64283E-05	1.11585E-02 7.64283E-05 1.11585E-02 7.64283E-05		5.26566E-05
EGEN	D1A D1A	D1A-GEN-5 D1A-GEN-6	EGDA_05 506754.32 5043963 62.70 EGDA 06 506757.32 5043963 62.70	23.29	0.51	53.04	716.48	8.56171E+00	5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05		5.26566E-05
EGEN	D1A D1A	D1A-GEN-6 D1A-GEN-7	EGDA_06 506757.32 5043963 62.70 EGDA 07 506754.32 5043956 62.70	23.29	0.51	53.04	716.48 716.48	8.56171E+00 8.56171E+00	5.86419E-02 5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01	1.11585E-02 1.11585E-02	7.64283E-05 7.64283E-05	1.11585E-02 7.64283E-05 1.11585E-02 7.64283E-05		5.26566E-05
EGEN	DIA DIA	D1A-GEN-7 D1A-GEN-8	EGDA_07 506754.32 5043956 62.70 EGDA 08 506757.32 5043956 62.70	23.29	0.51	53.04	716.48	8.56171E+00 8.56171E+00	5.86419E-02	1.11735E-01 1.11735E-01	1.39669E-01	1.11585E-02	7.64283E-05	1.11585E-02 7.64283E-05		5.26566E-05
LIME	Lime Silo	Lime Silo Combined	LIME 506321.13 5043487 62.70	23.29	0.01	33.04	110.40	0.00000E+00	0.00000E+00	0.00000E+00	0.00000E+00	1.11565E-02 1.27710E-02	1.27710E-02	1.27710E-02 1.27710E-02		0.00000E+00
LIIVIE	LITTIE SITU	Little Silo Combined	LIIVIE 300321.13 3043401 02.10					0.00000⊑+00	0.00000⊑+00	0.00000⊑+00	0.00000⊑+00	1.2//106-02	1.211106-02	1.21110E-02 1.21110E-02	0.00000⊏+00	0.00000E+00

Attachment C Modeling Support Data



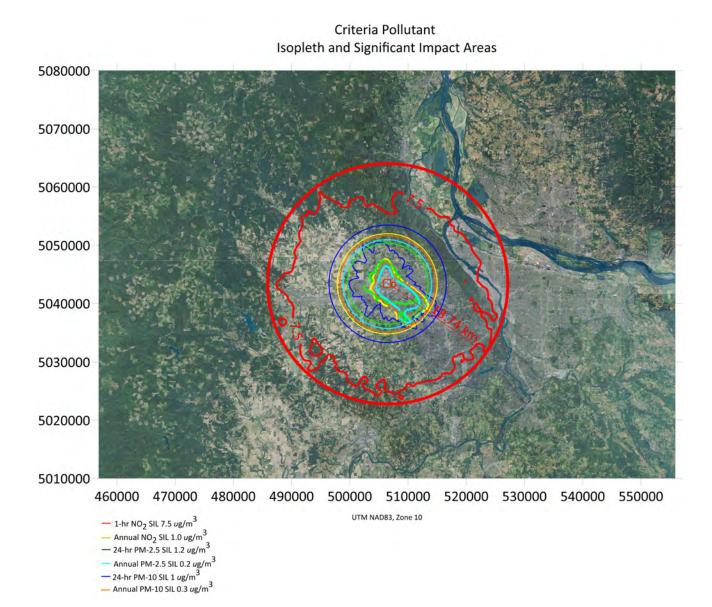






Combined SIA

	Averaging	Class I SIL				Averaging	Class II SIL			Max Distance	Number of Receptors	Receptors Falling Within SIL	Number of Receptors	Receptors Exceeding SIL
Pollutant	Period	(ug/m3)	Modeled	Significant (Y/N)	Pollutant	Period	(ug/m3)	Modeled	Significant (Y/N)	(m)	within SIL Radius	Radius File Name	Exceeding SIL	File Name
СО	1-HR	-	-	-	СО	1-HR	2000	708.8	N	-	-	-	-	-
со	8-HR	-	-	-	CO	8-HR	500	199.6	N	-	-	-	-	-
SO2	1-HR	-	-	-	SO2	1-HR	7.8	46.1	Υ	-	-	-	-	-
SO2	24-HR	0.2	0.0164	N	SO2	24-HR	5	20.1	Υ	-	-	-	-	-
SO2	Annual	0.1	0.0016	N	SO2	Annual	1	3.8	Υ	-	-	-	-	-
PM10	24-HR	0.3	0.0619	N	PM10	24-HR	1	9.3	Υ	10224.2	19936	Intel-Hillsboro-24HR-PM10-Radius.ROU	16594	Intel-Hillsboro-24HR-PM10-Exceed.ROU
PM10	Annual	0.2	0.0062	N	PM10	Annual	0.2	2.1	Υ	8233.0	18644	Intel-Hillsboro-ANNUAL-PM10-Radius.ROU	12690	Intel-Hillsboro-ANNUAL-PM10-Exceed.ROU
PM25	24-HR	0.27	0.0374	N	PM25	24-HR	1.2	7.4	Υ	6941.5	19874	Intel-Hillsboro-24HR-PM25-Radius.ROU	10475	Intel-Hillsboro-24HR-PM25-Exceed.ROU
PM25	Annual	0.05	0.0049	N	PM25	Annual	0.3	1.7	Υ	6952.0	16892	Intel-Hillsboro-ANNUAL-PM25-Radius.ROU	6451	Intel-Hillsboro-ANNUAL-PM25-Exceed.ROU
NO2	1-HR	-	-	-	NO2	1-HR	7.5	128.2	Υ	18709.2	21662	INTEL-1STSIL-1HR-NO2-Radius.ROU	21599	INTEL-1STSIL-1HR-NO2-Exceed.ROU
NO2	Annual	0.1	0.0376	N	NO2	Annual	1	13.3	Υ	8531.5	18899	Intel-Hillsboro-ANNUAL-NO2-Radius.ROU	13709	Intel-Hillsboro-ANNUAL-NO2-Exceed.ROU



Appendix D-Attachments Pg 66

MERP Qlik Data

State	County	Metric	Precursor	Emissions	Stack	MERP	MaxConc
Oregon	Morrow	8-hr Ozone	NOx	500	10	258	1.939568996
Oregon	Morrow	8-hr Ozone	VOC	500	10	1087	0.460180402
Oregon	Morrow	Annual PM2.5	NOx	500	10	7942	0.012590836
Oregon	Morrow	Annual PM2.5	SO2	500	10	11877	0.008419393
Oregon	Morrow	Daily PM2.5	NOx	500	10	3003	0.199790135
Oregon	Morrow	Daily PM2.5	SO2	500	10	2314	0.259274006

MERP Qlik Distance Corrected Data

WILKI QII	K Distance	Corrected Data			
State	County	Distance Metric Precurso	or Emissions Stack		Concentration
Oregon	Morrow	10 Daily PM2. NOx	500	10	0.19979
Oregon	Morrow	10 Daily PM2. SO2	500	10	0.259274
Oregon	Morrow	20 Daily PM2. NOx	500	10	0.169711
Oregon	Morrow	20 Daily PM2. SO2	500	10	0.258138
Oregon	Morrow	40 Daily PM2. NOx	500	10	0.143349
Oregon	Morrow	40 Daily PM2. SO2	500	10	0.183953
Oregon	Morrow	60 Daily PM2. NOx	500	10	0.132754
Oregon	Morrow	60 Daily PM2. SO2	500	10	0.186308
Oregon	Morrow	80 Daily PM2.! NOx	500	10	0.096651
Oregon	Morrow	80 Daily PM2. SO2	500	10	0.16239
Oregon	Morrow	100 Daily PM2.⊦NOx	500	10	0.078512
Oregon	Morrow	100 Daily PM2.: SO2	500	10	0.128952
Oregon	Morrow	120 Daily PM2. NOx	500	10	0.05442
Oregon	Morrow	120 Daily PM2. SO2	500	10	0.094666
Oregon	Morrow	140 Daily PM2. NOx	500	10	0.04506
Oregon	Morrow	140 Daily PM2. SO2	500	10	0.082554
Oregon	Morrow	160 Daily PM2. NOx	500	10	0.03768
Oregon	Morrow	, 160 Daily PM2.¦SO2	500	10	0.06921
Oregon	Morrow	180 Daily PM2. NOx	500	10	0.030171
Oregon	Morrow	180 Daily PM2.:SO2	500	10	0.054444
Oregon	Morrow	200 Daily PM2. NOx	500	10	0.025453
Oregon	Morrow	, 200 Daily PM2.:SO2	500	10	0.04928
Oregon	Morrow	, 220 Daily PM2.:NOx	500	10	0.026368
Oregon	Morrow	220 Daily PM2. SO2	500	10	0.049355
Oregon	Morrow	240 Daily PM2. NOx	500	10	0.022697
Oregon	Morrow	240 Daily PM2. SO2	500	10	0.049382
Oregon	Morrow	260 Daily PM2. NOx	500	10	0.01716
Oregon	Morrow	260 Daily PM2. SO2	500	10	0.046912
Oregon	Morrow	280 Daily PM2. NOx	500	10	0.013974
Oregon	Morrow	280 Daily PM2. SO2	500	10	0.042476
Oregon	Morrow	300 Daily PM2. NOx	500	10	0.013349
Oregon	Morrow	300 Daily PM2. SO2	500	10	0.039629
Oregon	Morrow	10 Annual PM NOx	500	10	0.010718
Oregon	Morrow	10 Annual PM SO2	500	10	0.005588
Oregon	Morrow	20 Annual PM NOx	500	10	0.012591
Oregon	Morrow	20 Annual PM SO2	500	10	0.008419
Oregon	Morrow	40 Annual PM NOx	500	10	0.007258
Oregon	Morrow	40 Annual PM SO2	500	10	0.007236
Oregon	Morrow	60 Annual PM NOx	500	10	0.00529
Oregon	Morrow	60 Annual PM SO2	500	10	0.00323
Oregon	Morrow	80 Annual PM NOx	500	10	0.00371
Oregon	Morrow	80 Annual PM SO2	500	10	0.004019
Oregon	Morrow	100 Annual PM NOx	500	10	0.003108
_	Morrow	100 Annual PM SO2	500	10	0.003881
Oregon Oregon		120 Annual PM NOx			
Oregon	Morrow	120 Alliludi PIVI NOX	500	10	0.003419

Oregon	Morrow	120 Annual PM SO2	500	10	0.002564
Oregon	Morrow	140 Annual PM NOx	500	10	0.002956
Oregon	Morrow	140 Annual PM SO2	500	10	0.0024
Oregon	Morrow	160 Annual PM NOx	500	10	0.002599
Oregon	Morrow	160 Annual PM SO2	500	10	0.002372
Oregon	Morrow	180 Annual PM NOx	500	10	0.002163
Oregon	Morrow	180 Annual PM SO2	500	10	0.002181
Oregon	Morrow	200 Annual PM NOx	500	10	0.001741
Oregon	Morrow	200 Annual PM SO2	500	10	0.002163
Oregon	Morrow	220 Annual PM NOx	500	10	0.001652
Oregon	Morrow	220 Annual PM SO2	500	10	0.002284
Oregon	Morrow	240 Annual PM NOx	500	10	0.001515
Oregon	Morrow	240 Annual PM SO2	500	10	0.002291
Oregon	Morrow	260 Annual PM NOx	500	10	0.001374
Oregon	Morrow	260 Annual PM SO2	500	10	0.002255
Oregon	Morrow	280 Annual PM NOx	500	10	0.001086
Oregon	Morrow	280 Annual PM SO2	500	10	0.002123
Oregon	Morrow	300 Annual PM NOx	500	10	0.000935
Oregon	Morrow	300 Annual PM SO2	500	10	0.001945

REGION		TY (COUNTY NAME			Address	City	Zio Code LatitudeCc Lone	itudel UTN	M-elm) UTM-nlm) Distanceto CO	PSELÍto CO Comb / NO			110PSEL PM1	10 Corr PM 25PSEL PM 25 Corr	SO2PSELíti SO2 Comb 1		CO Ratio NOx ROI NOx Ratio	PM10 ROI PM10 Rati PM25 ROI PM25 Rati SO2 ROI SO2 Ratio CO S	a NOx Sia		Sig PM25 S		PermitTvo Operating		iectID
NWR NWR	41067 41067	34 WASHINGTON 34 WASHINGTON	34-2813 34-0157	Jireh Semiconductor Incorporated STACK Infrastructure, Inc.	3131 NE BROOKWOOD PKWY 3145 NE BROOKWOOD PKWY	HILLSBORO			05418 5043665 0.995766 05464 5044054 1.087664	99 99	39 39	289 289	14	9	39	39 39	57.8 1.72E-02 57.8 1.88E-02	No No	Yes Yes	No No	No No	No No	Standard Active Simple Active	2050 5569	9
NWR	41067	34 WASHINGTON	34-0017	Dynic USA Corp.	4750 NE DAWSON CREEK DR	HILLSBORO	97124 45.5467 -12	2.933 5	05254 5043687 1.161157	99	39	289				39	57.8 2.01E-02	No	Yes	No	No	No	Simple Active	1831	9
NWR NWR	41067 41067	34 WASHINGTON 34 WASHINGTON	34-0241	Flexential Colorado Corp STACK Infrastructure, Inc.	5737 NE Huffman Street 8135 NE Evergreen Pkwy	Hillsboro	97124 45.557 ·12 97124 45.5509 ·12		5033.1 5044832 1.381586 07845 5043656 1.453396	99	39	289 289	14		20	20	57.8 2.39E-02 57.8 2.51E-02	No No	Yes	No No	No No	No No	Simple Active Simple Active	6208 5818	9
NWR	41067	34 WASHINGTON	34-2790	Tokyo Ohka Kogyo America, Inc.	4600 NW Brookwood Pkwy	HILLSBORO	97124 45.5519 -12	2.924 5	05760 5044854 1.497637	33	39	289			33	39	57.8 2.59E-02	No.	Yes	No	No	No	Simple Active	2037	9
NWR NWR	41067 41067	34 WASHINGTON 34 WASHINGTON		QTS Investment Properties Hillsboro, LLC Qoryo US. Inc.	2300 NE BROOKWOOD PKWY	Hillsboro HILLSBORO			5681.9 5044843 1.522728 04887 5043087 1.568355	99	39	289 289	14	9			57.8 2.63E-02 57.8 2.71E-02	No .	Yes Yes	No	No No	No	Standard Active Standard Active	6085 1867	9
NWR NWR	41067	34 WASHINGTON 34 WASHINGTON	34-0055	Genentech. Inc.	4625 NW Brookwood Parkway				04887 5045087 1.568355 05463 5045165 1.910548	99	39 39	289	14	9		39	57.8 2.71E-02 57.8 3.31E-02	NO NO	Yes	No No	No No	No No	Standard Active	1867 3071	9
NWR	41067	34 WASHINGTON		Beaver Ventures LLC	6675 NE 62nd Ave	Hillsboro			06555 5045832 2.337533	99	39	289	14	9	39	39	57.8 4.04E-02	No	Yes	No	No	No	Simple Active	5845	9
NWR NWR	41067 41067	34 WASHINGTON 34 WASHINGTON		KoMiCo Hillsboro LLC NTT Global Data Centers HI, LLC	6231 NE Croeni Ave 4050 NE Evergreen Road	Hillsboro Hillsboro			7366.7 5045711 2.413165 02131 5044052 4.30454	99	39	289 289				39	57.8 4.18E-02 57.8 7.45E-02	No No	Yes Yes	No No	No No	No No	Simple Active Standard Active	6192 6165	9
NWR	41067	34 WASHINGTON	34-2753	Clean Water Services	3235 SW RIVER ROAD	HILLSBORO	97123 45.4977 -12	2.949 5	03906 5038498 5.589279	99	52	302	14		39	39	60.4 9.25E-02	No.	Yes	No	No	No	Standard Active	2003	9
NWR NWR	41067 41067	34 WASHINGTON 34 WASHINGTON	34-0004	Hillsboro Landfill Inc. Analog Devices, Inc.	3205 SE MINTER BRIDGE ROAD 14320 SW JENKINS RD	HILLSBORO BEAVERTON			02344 5037386 7.337038 13703 5038745 8.714576	99	39	289 289	14	9	97	39	57.8 0.126938 57.8 0.150771	No.	Yes Yes	No	No No	No	Standard Active	1818 2041	9
NWR	41067	34 WASHINGTON	34-2638	Tektronix, Inc.	14150 SW KARL BRAUN DR	BEAVERTON			14063 5038512 9.143397	99	58	308	14	9	99	39	61.6 0.148432	No No	Yes	No	No	No	Standard Active Standard Active	1951	9
NWR	41067	34 WASHINGTON		Bimbo Bakeries USA, Inc.	10750 SW 5TH ST	BEAVERTON	97005 45.4831 -12		16615 5036641 12.30415	99	39	289	14	9		57	57.8 0.212875	No	Yes	No	No	No	Standard Active	2030	9
NWR NWR	41051 41067	26 MULTNOMAH 34 WASHINGTON	26-3067	Owens Corning Roofing and Asphalt, LLC International Paper Company	11910 NW SAINT HELENS RD 5500, 5570, & 5800 SW WESTER	PORTLAND	97231-2306 45.6061 -12 97005-4116 45.4801 -12		16375 5050739 12.32492 17194 5036298 12.9761	157	39	289 289	14	9	106	39	57.8 0.213234 57.8 0.2245	No No	Yes	No No	No No	No No	Title V Active Simple Active	1333 1823	9
NWR	41051	26 MULTNOMAH		Siltronic Corporation	7200 NW FRONT AVE	PORTLAND	97210-3676 45.5775 -12	2.755 5	19099 5047136 13.20928	99	83	333	12	12	22	54	66.6 0.198338	No.	Yes	No	No	No	Standard Active	1299	9
NWR	41067	34 WASHINGTON	34-2678	TTM Technologies North America, LLC	1521 POPLAR LN	FOREST GROVE	97116-2033 45.5134 -12			99	39	289		18		39	57.8 0.228937	No .	Yes	No	No	No	Simple Active	1971	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-2492	Northwest Pipe Company Ash Grove Cement Company	12005 N BURGARD WAY 13939 N RIVERGATE BLVD	PORTLAND PORTLAND	97203 45.609 -12 97203 45.6229 -12	2.773 5 2.784 5	17669 5050631 13.33572 17151 5051852 13.61396	99	39 39	289 289	28 42	18 21	39	39	57.8 0.230722 57.8 0.235536	NO NO	Yes	No No	No No	No No	Title V Active Standard Active	1193 1119	9
NWR	41051	26 MULTNOMAH		J. R. Simplot Company	14003 N RIVERGATE BLVD	PORTLAND	97203-6514 45.6248 -12	2.785 5	16745 5052384 13.63615	99	39	289	14	9			57.8 0.235919	No	Yes	No	No	No	Standard Active	1117	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-0386	Hexion Inc. Zenith Energy Terminals Holdings, LLC	10915 N LOMBARD ST 5501 NW FRONT AVE	PORTLAND PORTLAND			3270.9 5050244 13.65285 20291 5045195 13.99403	99	39	289 327	14		81	39 179	57.8 0.236208 65.4 0.213976	No.	Yes Yes	No	No No	No	Simple Active Title V Active	6176 1148	9
NWR	41051	26 MULTNOMAH	26-2028	Kinder Morgan Liquids Terminals LLC	5880 NW ST HELENS RD	PORTLAND	97210-1115 45.5625 -12	2.744 5	20291 5045195 13.99403	99	44	294	14		104	236	58.8 0.237994	No No	Yes	No	No	No	Title V Active	1151	9
NWR		26 MULTNOMAH 26 MULTNOMAH		CertainTeed Corporation EVRAZ Inc. NA	6350 NW FRONT AVE 14400 N RIVERGATE BLVD	PORTLAND PORTLAND	97210 45.568 -12 97203 45.6256 -12		20288 5046306 14.16863 17148 5052963 14.32019	99 823	39 493	289	24 340	9 209	39	60 131	57.8 0.245132 148.6 0.096367	No .	Yes Yes	No	No	No	Standard Active Title V Active	1154	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH		Cintas Corporation No. 3	9045 N RAMSEY BLVD	PORTLAND			1/148 5052963 14.52019 7929.6 5052321 14.51674	99	493	743 289	14	209	39	151	148.6 0.096367 57.8 0.251155	NO No	Yes	No No	No No	No No	Simple Active	1109	9
NWR	41051	26 MULTNOMAH	26-3310	Metropolitan Service District	9363 N COLUMBIA BLVD	PORTLAND	97203-1048 45.6142 -12	2.752 5	19494 5050748 14.96617	99	39	289	14	9	39	39	57.8 0.25893	No	Yes	No	No	No	Title V Active	1432	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-1815	Owens Corning Roofing and Asphalt, LLC Gunderson LLC	3750 NW YEON AVE 4350 NW FRONT AVE	PORTLAND PORTLAND			21856 5044089 15.46722 21894 5044512 15.52701	99	39	289 289	99	108	0	46 300	57.8 0.267599 57.8 0.268633	No.	Yes	No	No	No	Standard Active Title V Active	1100 1281	9
NWR	41051	26 MULTNOMAH	26-2197	Daimler Trucks North America, LLC	6936 N FATHOM ST	PORTLAND	97217 45.5728 -12	2.715 5	21848 5046311 15.70167	99	39	289	14	100	39	470	57.8 0.271655	No No	Yes	No	No	No	Title V Active	1171	9
NWR	41051	26 MULTNOMAH		Vigor Industrial, LLC	5555 N CHANNEL AVE BIDG 71	PORTLAND	97217-7655 45.5625 -12			99	39	289	124		39	464	57.8 0.271655	No	Yes	No	No	No	Title V Active	1360	9
NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH		Zinkpower-Portland LLC Solenis LLC	2406 NW 30TH AVE 3366 NW YEON AVE	PORTLAND PORTLAND	97210-2014 45.5394 -12 97210 45.5473 -12		22469 5042903 16.08009 22637 5044092 16.24779	99	39	289 289	14	9	55	20	57.8 0.278202 57.8 0.281104	No No	Yes Yes	No No	No No	No No	Simple Active Standard Active	1115	9
NWR	41051	26 MULTNOMAH		City of Portland.Bureau of Environmenta		PORTLAND			21837 5049644 16.61474	99	39	289	14	9	39	51	57.8 0.287452	No.	Yes	No	No	No	Standard Active	1021	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-2068	ESCO Group. LLC Herbert Malarkey Roofing Company	2141 NW 25TH AVE 3131 N COLUMBIA BLVD	PORTLAND PORTLAND	97210 45.5428 - 97217-7472 45.5911 -		23421 5042984 17.02882 23401 5048539 17.73205	283	41	291 289	30	30	39	59	58.2 0.292591 57.8 0.306783	No.	Yes Yes	No	No	No	Title V Active Standard Active	1161 1121	9
NWR	41051	26 MULTNOMAH		Oil Re-Refining Company Inc.	4150 N SUTTLE RD	PORTLAND	97217-7717 45.6135 -12			99	39	289	14	9	39	39	57.8 0.307326	No No	Yes	No	No	No	Standard Active	1322	9
NWR	41067	34 WASHINGTON	34-9514	Regenyx LLC	13240 SW Wall St	Portland			18751 5030570 17.88105	99	39	289				39	57.8 0.309361	No	Yes	No	No	No	Simple Active	3233	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-2832	Portland State University Supreme Perlite Company	1900 SW 4th Ave 4600 N SUTTLE RD	PORTLAND PORTLAND			24215 5039654 18.22542 22609 5051869 18.24204	99	39 39	289 289	14	9	39 39	39	57.8 0.315315 57.8 0.315606	No No	Yes Yes	No No	No No	No No	Simple Active Simple Active	1264 1179	9
NWR	41051	26 MULTNOMAH	26-2777	Graphic Packaging International, Inc	3400 N MARINE DR	PORTLAND	97217 45.6119 -12	2.702 5	23392 5050761 18.47837	99	39	289	21	21	39	350	57.8 0.319695	No.	Yes	No	No	No	Title V Active	1248	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-3009	Arclin Surfaces, Inc. Oregon Health and Sciences University	2301 N COLUMBIA BLVD 3181 SW SAM JACKSON PARK R	PORTLAND RE PORTLAND	97217-6954 45.5888 -12 97239 45.4995 -12	2.691 5	24181 5048542 18.48204 24219 5038543 18.49564	99	45	295 333	9	9	39	400	59 0.313255 66.6 0.277712	No .	Yes	No	No	No	Title V Active Title V Active	1303 1157	9
NWR NWR	41051	26 MULTNOMAH 26 MULTNOMAH		EcoLube Recovery LLC	3181 SW SAM JACKSON PARK R 11535 N FORCE AVE	PORTLAND	97239 45.4995 -12 97217 45.6062 -12		24219 5038543 18.49564 24172 5050764 19.19921	99	83 39	289	14	9	39	39	57.8 0.332166	NO NO	Yes	No No	No No	No No	Standard Active	1157	9
NWR		26 MULTNOMAH	26-0285	Portland General Electric Company	26 SW SALMON ST	PORTLAND			25400 5040303 19.26709	99	39	289					57.8 0.333341	No	Yes	No	No	No	Simple Active	5813	9
NWR	41051 41067	26 MULTNOMAH 34 WASHINGTON	26-2968	Mondelez Global LLC Lam Research Corporation	100 NE COLUMBIA BLVD 11155 SW LEVETON DR	PORTLAND THALATIN	97211 45.5818 -12 97062 45.386 -12		25745 5047437 19.74156 16283 5025853 20.22598	99	39	289			39	54	57.8 0.341545 57.8 0.34993	No No	Yes	No No	No No	No No	Standard Active Simple Active	1290 1875	9
NWR	41067	34 WASHINGTON		Clean Water Services	16580 SW 85TH AVE	TIGARD	97224-5500 45.4008 -12	2.762 5	18784 5027415 20.30002	99	62	289 312	14	9	39	43	62.4 0.325321	No.	Yes	No	No	No	Standard Active	1941	9
NWR NWR	41051 41067	26 MULTNOMAH 34 WASHINGTON	26-2952 34-0005	United States Bakery Valmont Coatings, Inc.	340 NE 11TH AVE 9700 SW HERMAN RD	PORTLAND THALATIN	97232-2755 45.5257 -12 97062-8151 45.3839 -12		26981 5041410 20.68685	99	39	289 289				96	57.8 0.357904 57.8 0.363058	No .	Yes Yes	No	No No	No	Standard Active Simple Active	1283 1819	9
NWR	41051	26 MULTNOMAH		Portland General Electric Company	3700 SE 17TH AVE	PORTLAND	97202-3833 45.4959 -12			99	39	289	14	9	39	39	57.8 0.303050	No No	Yes	No	No	No	Simple Active	3251	9
NWR	41067	34 WASHINGTON	34-0149	Portland General Electric Company	10800 SW AVERY ST	TUALATIN	97062-8585 45.3716 -12	2.788 5	16444 5024075 21.86807	99	39	289	14	9	39	39	57.8 0.37834	No	Yes	No	No	No	Simple Active	5427	9
NWR NWR	41051 41067	26 MULTNOMAH 34 WASHINGTON	26-3135	Bullseye Glass Co. Ardent Mills. LLC	3722 SE 21ST AVE 21151 SW 115TH AVE	PORTLAND THALATIN	97202 45.4961 -12 97062-6959 45.3667 -12	2.645 5	28126 5038560 22.28054	99	39	289 289	14	9	39	39	57.8 0.385477 57.8 0.38715	No No	Yes	No No	No No	No No	Title V Active Simple Active	1358 5293	9
NWR	41067	34 WASHINGTON	34-2066	Stimson Lumber Company	49800 SW SCOGGINS VALLEY RI		97119 45.4673 -12	3.188 4	85148 5035181 22.82221	168	118	368	140		39	165	73.6 0.310084	No.	Yes	No	No	No	Title V Active	1911	9
NWR	41051	26 MULTNOMAH		The Boeing Company	4635 NE CORNFOOT RD	PORTLAND PORTLAND	97218-1291 45.5779 -12		30426 5047458 24.34983	99	39	289	14	9	39	39	57.8 0.421277	No .	Yes	No	No	No	Standard Active	1416	9
NWR NWR	41051 41005	26 MULTNOMAH 3 CLACKAMAS	03-0010	Hydro Extrusion Portland, Inc. Water Environment Services	5325 NE SKYPORT WAY 11525 SE MCLOUGHLIN BLVD	MILWAUKIE	97218-1243 45.5755 -12 97222 45.4404 -1		30569 5046959 24.41527 28156 5031894 24.65812	99	39 39	289			39	39	57.8 0.422405 57.8 0.426611	NO NO	Yes Yes	No No	No No	No No	Standard Active Simple Active	1372 1542	9
NWR		26 MULTNOMAH	26-3317	Silver Eagle Manufacturing Co.	5825 NE SKYPORT WAY	PORTLAND			31210 5046796 25.02798	99	39	289				39	57.8 0.43301	No	Yes	No	No	No	Standard Active	1439	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-3254	Oregon Air National Guard	6801 NE CORNFOOT RD 4600 SE HARNEY DR	PORTLAND PORTLAND	97218-2797 45.5749 -12 97206-0825 45.4623 -12		31992 5046355 25.75076 30491 5034127 25.85013	99	39 58	289 308	14 54		39 39	39	57.8 0.445515 61.6 0.419645	No No	Yes	No No	No No	No No	Standard Active	1383	9
NWR	41051	26 MULTNOMAH		Port of Portland	7200 NE AIRPORT WAY	PORTLAND	97218 45.5871 -12	2.589 5	31981 5048577 26.07994	99	46	296	14	9	39	39	59.2 0.44054	No.	Yes	No	No	No	Standard Active	1272	9
NWR NWR	41005 41005	3 CLACKAMAS 3 CLACKAMAS	03-2624	Blount, Inc. Dave's Killer Bread, Inc.	4909 SE INTERNATIONAL WAY 5209 SE INTERNATIONAL WAY	MILWAUKIE	97222-0080 45.4356 -12 97222-4603 45.4331 -12	2.613 5	30293 5031415 26.77541 30459 5031138 27.04911	99	39	289	14	9		39	57.8 0.463242 57.8 0.467978	No .	Yes Yes	No	No	No	Simple Active Standard Active	1620 5373	9
NWR NWR		26 MULTNOMAH		Owens Brockway Glass Container Inc.	9710 NE Glass Plant Road	PORTLAND			30459 5031138 27.04911 34339 5045256 27.99413	99	382	289 632	109	100	184	39	126.4 0.221473	NO NO	Yes	No No	No No	No No	Title V Active	53/3 1114	9
WR	41071	36 YAMHILL	36-9504	City of Newberg	2301 WYNOOSKI ROAD	NEWBERG	97132 45.2858 -12		03921 5015168 28.44025	99	39	289	14		39	39	57.8 0.492046	No	Yes	No	No	No	Simple Active	3115	9
NWR NWR	41005 41005	3 CLACKAMAS 3 CLACKAMAS	03-0020	PCC Structurals, Inc. PCC Structurals. Inc.	13350 SE JOHNSON RD 13340 SE 84TH	MILWAUKIE	97222-1289 45.4265 -12		32692 5030416 29.36767 33623 5030376 30.22137	99	39	289 289	14			39	57.8 0.508091 57.8 0.522861	No No	Yes	No No	No No	No No	Standard Active Standard Active	1552	9
NWR	41005	3 CLACKAMAS	03-0011	Water Environment Services	15941 AGNES AVE	OREGON CITY	97045-1003 45.3759 -12	2.589 5	32100 5025247 31.5224	99	39	289			39	39	57.8 0.54537	No.	Yes	No	No	No	Simple Active	1543	9
NWR WR	41005 41071	3 CLACKAMAS 36 YAMHILL	03-2145	Willamette Falls Paper Company, Inc. M & W Fiberglass, Inc.	4800 MILL ST 20929 NE NIEDERBERGER ROAD	WEST LINN	97068-3357 45.3564 -12 97115 45.274 -12		30124 5022615 31.60714 96078 5012946 32.25044	99	396	646 289	84	84	743	161	129.2 0.244637 57.8 0.557966	No .:	Yes Yes	No	No	No	Title V Active Simple Active	1603 5474	9
WR NWR	41005	3 CLACKAMAS	36-0041 03-2738	Consolidated Metco, Inc.	10448 HWY 212	CLACKAMAS	97015 45.4074 -12	2.555 5	34862 5028305 32.26412	99	39	289 289 289	14	9	23	39	57.8 0.558203	No No	Yes	No No	No No	No No	Simple Active	1661	9
NWR	41005	3 CLACKAMAS	03-2754	Albertson's LLC	9450 SE MANGAN DR	CLACKAMAS			34484 5027448 32.34776	99	39					76	57.8 0.55965	No	Yes	No	No	No	Standard Active	1673	9
NWR WR	41005 41047	3 CLACKAMAS 24 MARION	03-0004 24-0148	Fred Meyer, Inc. Columbia Helicopters. Inc.	16253 SE 122ND AVE 14452 ARNDT RD NE	CLACKAMAS AURORA	97015-9136 45.4048 -12 97002 45.2587 -12		36069 5028023 33.46322 18045 5011859 33.71586	99	39 39	289 289	14	9	39	58 39	57.8 0.578948 57.8 0.583319	No No	Yes Yes	No No	No No	No No	Standard Active Simple Active	1536 5568	9
NWR	41051	26 MULTNOMAH	26-0289	Portland Specialty Baking LLC	3423 NE 172ND PLACE	PORTLAND	97230 45.5463 -12	2.486 5	40140 5043769 33.74107	99	39	289	14	9	39	39	57.8 0.583756	No No	Yes	No	No	No	Simple Active	5836	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-3267	U.S. Bancorp Owens Corning Foam Insulation 11 C	17650 NE SANDY BLVD 18456 NE WILKES RD	PORTLAND PORTLAND	97230 45.5465 -12 97230 45.5401 -12		40590 5044183 34.19682 41089 5043147 34.69085	99	39	289 289	14		39	20	57.8 0.591641 57.8 0.600188	No No	Yes	No No	No No	No	Simple Active Standard Active	1396 3067	9
NWR NWR	41051	26 MULTNOMAH		Graphic Packaging International, Inc.	18456 NE WILKES KD 18683 NE SANDY BLVD	GRESHAM	97230 45.5401 -12			99	39 39	289	14	9		39	57.8 0.600188 57.8 0.60456	NO NO	Yes	No No	No No	No No	Standard Active	3067 5368	9
NWR	41051	26 MULTNOMAH	26-3051	International Paper Company	1601 NE 192ND AVE	PORTLAND	97230-7095 45.5346 -12	2.468 5	41385 5041966 35.01861	99	39	289	14	9	39	39	57.8 0.605858	No	Yes	No	No	No	Simple Active	1325	9
NWR NWR	41009 41051	5 COLUMBIA 26 MULTNOMAH		Cascade Tissue Group-Oregon Boeing Company (The)	1300 Kaster Rd 19000 NF SANDY BLVD	Saint Helens PORTI AND	97051 45.8502 -12 97230.6810 45.5431 -12		15528 5077401 35.10838	106	103	353 289	14	9	39 39	140	70.6 0.497286 57.8 0.611334	No No	Yes	No No	No No	No No	Title V Active	2769	9
NWR	41005	3 CLACKAMAS		Orchid Orthopedic Solutions Oregon, Inc	13963 S FIR ST	OREGON CITY	97045-8299 45.3296 -12	2.581 5	32865 5019651 35.62543	99	39	289	14	9	39	39	57.8 0.616357	No No	Yes	No	No	No	Simple Active	1609	9
NWR	41005	3 CLACKAMAS	03-2634	Clarios LLC	800 NW 3RD AVE	CANBY			23215 5011987 35.71853	99	39	289	14				57.8 0.617968	No	Yes	No	No	No	Standard Active	1625	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-3228	City Of Gresham Cascade Corporation	20015 NE SANDY BLVD 2201 NE 201ST AVE	GRESHAM FAIRVIEW	97030 45.5454 -12 97024 45.5387 -12		42151 5044193 35.75772 42159 5043082 35.76144	99 99	39 39	289 289	14	9	39	39 54	57.8 0.618646 57.8 0.61871	No No	Yes Yes	No No	No No	No No	Simple Active Standard Active	1364 1319	9
NWR	41051	26 MULTNOMAH	26-3240	Microchip Technology Incorporated	21015 SE STARK ST	GRESHAM	97030-2015 45.5206 -12	2.447 5	42955 5040866 36.64977	99	39	289	14	9	39	39	57.8 0.634075	No	Yes	No	No	No	Standard Active	1371	9
NWR NWR	41005 41051	3 CLACKAMAS 26 MULTNOMAH	03-2729 26-0027	Northwest Pipeline LLC SemiConductor Components Industries.	15124 S SPRINGWATER RD	OREGON CITY GRESHAM	97045 45.3869 -1 97030 45.5282 -12		39922 5026402 37.63065 45289 5041993 38.91819	115	536	786 289	16		39	39	157.2 0.239381 57.8 0.673325	No No	Yes Yes	No No	No No	No No	Title V Active Standard Active	1656 960	9
NWR	41009	5 COLUMBIA	05-2605	Forest Energy Oregon, LLC	2305 2ND STREET	COLUMBIA CITY	97018 45.8937 -1	22.81 5	14741 5081843 39.23975	99	39	289	14	9	39	39	57.8 0.678888	NO No	Yes	No	No No	No	Simple Active	3084	9
NWR	41005	3 CLACKAMAS	03-0037	J and D Fertilizer Ltd.	9205 S KRAXBERGER RD	CANBY	97013-9317 45.2269 -12		25120 5008551 39.64683		39	289	14	9	39	97	57.8 0.685931	No	Yes	No	No	No	Simple Active	1567	9
WR NWR	41071 41051	36 YAMHILL 26 MULTNOMAH	36-5034 26-0088	Cascade Steel Rolling Mills, Inc. Mutual Materials Company	3200 N HWY 99W 2300 SE HOGAN ROAD	MCMINNVILLE GRESHAM	97128 45.2289 -12 97080-9267 45.4812 -12		87440 5008513 39.79412 46111 5036444 40.333	/s1 99	318 39	568 289	77 14	72	70 39	87 39	113.6 0.3503 57.8 0.697803	No No	Yes Yes	No No	No No	No No	Title V Active Simple Active	2093 1012	9
NWR	41009	5 COLUMBIA	05-2042	Dyno Nobel Incorporated	63149 COLUMBIA RIVER HWY	Deer Island	97054-9401 45.9122 -12	2.829 5	13293 5084307 41.38508	99	39	289	55	55	39	39	57.8 0.716005	No	Yes	No	No	No	Standard Active	2772	9
WR WR	41071	36 YAMHILL 24 MARION	36-0052	Ultimate RB, Inc.	904 NE 10TH AVE 2655 PROGRESS WAY	MCMINNVILLE	97128 45.2144 -12 97071.9774 45.1565 -12		5175.3 5006785 42.40823 12575 5000727 42.20654	99	39 39	289 289	14	9	39	39	57.8 0.733706 57.8 0.747518	No	Yes	No No	No No	No No	Simple Active	6211 774	9
NWR	41005	3 CLACKAMAS	03-0016	Wolf Steel Foundry, Inc.	6160 S WHISKEY HILL RD	HUBBARD	97032-9408 45.1743 -12	2.739 5	20485 5002346 43.49757	99	39	289	14	9	39	39	57.8 0.752553	NO No	Yes	No	No	No	Simple Active	1548	9
WR	41047	24 MARION	24-0070	Specialty Polymers, Inc.	2475 Progress Way	Woodburn	97071-9768 45.1553 -12		12883 5000271 43.71242	20	39	289				39	57.8 0.75627	No	Yes	No	No	No	Simple Active	782	9
NWR NWR	41005 41005	3 CLACKAMAS 3 CLACKAMAS	03-9507	Northwest Natural Gas Company Sanders Wood Products, Inc.	10405 SOUTH BARNARDS ROAD 28890 HWY 213	D MOLALLA LIBERAL	97038 45.1725 -12 97038 45.1904 -12		27251 5002172 46.29004 32207 5004139 47.06686	99	39 39	289 289	21	21	39	82	57.8 0.800866 57.8 0.814306	No No	Yes Yes	No No	No No	No No	Simple Active Standard Active	3041 1588	9
NWR	41005	3 CLACKAMAS		Eagle Foundry Co.	23123 SE EAGLE CREEK RD	EAGLE CREEK	97022 45.3552 -12	2.354 5	50607 5022613 48.893		39	289	17			46	57.8 0.8459	No	Yes	No	No	No	Standard Active	1623	9
NWR WR	41009 41071	5 COLUMBIA 36 YAMHILL	05-0028	Northwest Natural Gas Company Riverbend Landfill Co.	68301 COLUMBIA RIVER HWY 13469 SW HIGHWAY 18	RAINIER MCMINNVILLE			9960.3 5092522 49.15137 81137 5000753 49.65406	99 249	39 146	289 396	14	9	204	39 39	57.8 0.85037 79.2 0.626945	No No	Yes	No No	No No	No No	Simple Active Title V Active	6205 2063	9
****										-				-			0.010342	NO							-

REGION	FIPS COUNCOU	INTY (COUNTY NAME	SourceNur SourceName	Address	City	Zip Code	LatitudeCc Longitudes	UTM-e(m) UTM-n(m)	DistancetoSitei CO	PSEL/to CO	Comb / NO	OPSELÍT NOX	x Comb PM1	OPSEL PM1	0 Corr PM2SI	PSEL PM25	Corr SO2P!	SELIti SO2 Comb VOCPSE	ELIT CO ROI CO Ratio N	Ox ROI NOx Ratio P	M10 ROI PM10 Rati PM	125 ROI PM25 Rati SO2 RO	I SO2 Ratio CO Sig	N Ox Sig	PM10 Sig	PM25 Sig SO2	ig PermitTyp Operating	SourceID EIPr	rojectID
NWR	41067	34 WASHINGTON	34-2813 Jireh Semiconductor Incorpor	ra 3131 NE BROOKWOOD PKWY	HILLSBORO	97124	45.5465 -122.931	505418 5043665	1.00	99	899	39	289						39 22.475 4.43E-02	57.8 1.72E-02			Yes	Yes	No	No No	Standard Active	2050	9
NWR	41067	34 WASHINGTON	34-0157 STACK Infrastructure, Inc.	3145 NE BROOKWOOD PKWY	HILLSBORO	97124-5303	45.5471 -122.929	505464 5044054	1.09	99	899	39	289	14	114	9	109	39	39 22.475 4.84E-02	57.8 1.88E-02	22.8 4.77E-02	21.8 4.99E-02	Yes	Yes	Yes	Yes Yes	Simple Active	5569	9
NWR	41067	34 WASHINGTON	34-0017 Dynic USA Corp.	4750 NE DAWSON CREEK DR	HILLSBORO	97124	45.5467 -122.933	505254 5043687	1.16	99	899	39	289						39 22.475 5.17E-02	57.8 2.01E-02			Yes	Yes	No	No No	Simple Active	1831	9
NWR	41067	34 WASHINGTON	34-0241 Flexential Colorado Corp	5737 NE Huffman Street	Hillsboro	97124	45.557 -122.923	506033.1 5044832	1.38	99	899	39	289						22.475 6.15E-02	57.8 2.39E-02			Yes	Yes	No	No No	Simple Active	6208	9
NWR	41067	34 WASHINGTON	34-0183 STACK Infrastructure, Inc.	8135 NE Evergreen Pkwy	Hillsboro	97124	45.5509 -122.921	507845 5043656	1.45	99	899	39	289	14	114	9	109	39	39 22.475 6.47E-02	57.8 2.51E-02	22.8 6.37E-02	21.8 6.67E-02	Yes	Yes	Yes	Yes Yes	Simple Active	5818	9
NWR	41067	34 WASHINGTON	34-2790 Tokyo Ohka Kogyo America, II	In 4600 NW Brookwood Pkwy	HILLSBORO	97124	45.5519 -122.924	505760 5044854	1.50			39	289						39	57.8 2.59E-02			No	Yes	No	No No	Simple Active	2037	9
NWR	41067	34 WASHINGTON	34-0222 OTS Investment Properties Hi		Hillsboro	97174	45.5571 -122.927	505681 9 5044843	1.52	99	299	39	289	14	114	9	109		22.475 6.78E-02	57.8 2.63E-02	22.8 6.68E-02	21.8 6.98E-02	Yes	Yes	Yes	Yes Yes	Standard Artive	6085	9
NWR	41067	34 WASHINGTON	34-0055 Oorvo US, Inc.	2300 NE BROOKWOOD PKWY	HILLSBORD		45.5413 -122.937		1.57	99	899	39	289						39 22.475 6.98E-02	57.8 2.71E-02			Yes	Yes	No	No No	Standard Artive	1867	9
NWR	41067	34 WASHINGTON	34-9507 Genentech, Inc.	4625 NW Brookwood Parkway	HILLSBORD		45.5572 -122.926		1.91	99	899	39	289	14	114	9	109		39 22.475 8.50E-02	57.8 3.31E-02	22.8 8.38F.02	21.8 8.76E-02	Yes	Yes	Yes	Yes Yes	Simple Artive	3071	9
NWR	41067	34 WASHINGTON	34-0186 Beaver Ventures LLC	6675 NE 62nd Ave	Hillsboro		45,566 -122,916		2.34	99	899	39	289	14	114	9	109		39 22.475 0.104006	57.8 4.04E-02	22.8 0.102523	21.8 0.107226	Yes	Yes	Yes	Yes Yes	Simple Active	5845	9
NWR	41067	34 WASHINGTON	34-0238 KoMiCo Hillsboro LLC	6231 NE Croeni Ave	Hillsboro		45.5649 -122.906		2.41	99	899	39	289			-			39 22.475 0.107371	57.8 4.18E-02			Yor	Vor	No	No No	Simple Active	6192	
NWR	41067	34 WASHINGTON	34-0235 NTT Global Data Centers HI. L		Hillshore		45.55 -122.973		430	99	899	39	289						22.475 0.191526	57.8 7.45E-02			Yor	Vor	No	No No	Standard Artive	6165	
NWR	41067	34 WASHINGTON	34-2753 Clean Water Services	3235 SW RIVER ROAD	HILLSBORD		45.4977 -122.949		5.59	99	899	52	302	14	114			20	39 22.475 0.248689	60.4 9.25E-02	22.8 0.245144		Yor	Vor	Vor	No No	Standard Active	2003	
NWR	41067	34 WASHINGTON	34-0004 Hillsboro Landfill Inc.	3205 SE MINTER BRIDGE ROAD	HILLSBORD	97123	45.493 :122.97	502344 5037386	7.34	99	899	39	789	14	114	0	109		39 22.475 0.326453	57.8 0.126938	22.8 0.3218	21.8 0.336561	Yes	Vor	Vor	Yes Yes	Standard Active	1818	
NWR	41067	34 WASHINGTON	34-2804 Analog Devices, Inc.	14320 SW JENKINS RD	BEAVERTON		45.5021 -122.825		8.71	99	899	39	289	14	114		109		75 22.475 0.387745	57.8 0.150771	22.8 0.382218	21.8 0.399751	Yes	Yes	Yes	Yes Yes	Standard Active	2041	9
NWR	41067	34 WASHINGTON	34-2638 Tektronix Inc.	14150 SW KARL BRAUN DR	BEAVERTON	97077	45,499 -122,818		9.14	99	899	58	308	14	114	9	109	99	39 22.475 0.406825	61.6 0.148432	22.8 0.401026	21.8 0.419422	Yes	Yes	Yes	Yes Yes	Standard Active	1951	9
NWR	41067	34 WASHINGTON	34-2021 Knife River Corporation North		BEAVERTON	97007-5470	45.4566 -122.896		9.55					20	120		109				24 0.39787	21.8 0.438022	No	No	Yes	Yes Yes	Standard Active	1907	9
NWR	41067	34 WASHINGTON		10750 SW 5TH ST	BEAVERTON		45.4831 -122.787		12.30	99	899	39	289	14	114		109		57 22.475 0.547459	57.8 0.212875	22.8 0.539656	21.8 0.564411	Yor	Vor	Vor	Yes Yes	Standard Active	2030	
NWR	41051	26 MULTNOMAH	26-3067 Owens Corning Roofing and A		PORTLAND		45.6061 -122.789		12.32	157	957	39	289		114				39 23.925 0.515148	57.8 0.213234	22.8 0.540567	21.8 0.565363	Yor	Vor	Vor	Yes Yes	Title V Artive	1333	
NWR	41067	34 WASHINGTON	34-2756 DMH. Inc.	3802 & 3804 24TH AVE	FOREST GROVE		45.5247 -123.081		12.95	237	337	33	203				110		83	37.0 0.223234	23 0.563021	22 0.588613	No	No	Yes	Yes Yes	Title V Active	2006	
NWR	41067	34 WASHINGTON	34-0009 International Paper Company						12.98			39	289		113	10	220	20	20	57.8 0.2245	23 0.303021	22 0.300023	No	Vor	No	No No	Simple Active	1823	á
NWR	41051	26 MULTNOMAH	26-2909 Kinder Morgan Bulk Terminal		PORTI AND		45.6017 -122.774		13.07			33	203	14	114	9	109	33	22	37.0 0.1143	22.8 0.573042	21.8 0.599329	No	No	W	Yes Yes	Standard Artive	1270	
NWR	41051	26 MULTNOMAH		7200 NW FRONT AVE	PORTLAND		45.5775 -122.755		13.21	99	899	83	333				117		54 22.475 0.587732	66.6 0.198338	22.4 0.5897	22.4 0.5897	Ver	W	Ves	Ves Ves	Standard Active	1299	-
NWR	41051	34 WASHINGTON	34-2678 TTM Technologies North Ame		FOREST GROVE		45.5134 -123.081		13.23	99	899	39	289	12	112	12	112		39 22.475 0.588768	57.8 0.228937	22.4 0.3697	22.4 0.3697	Yes	Yes	No.	No No	Simple Active	1971	9
NWR	41057	26 MULTNOMAH	26-2492 Northwest Pipe Company		PORTIAND		45.609 -122.773		13.23	33	833	39	289	78	178	18	118		95	57.8 0.230722	25.6 0.520927	23.6 0.565073	res No.	Yes	No.	NO NO	Title V Active	1193	9
NWR	41051	26 MULTNOMAH	26-1891 Ash Grove Cement Company		PORTLAND		45.6229 -122.784		13.61	00	299	39	289	42			121		39 22.475 0.605738	57.8 0.235536	28.4 0.479365	24.2 0.56256	NO	Yes	Yes	Yes Yes	Standard Active	1119	9
NWR	41051	26 MULTNOMAH	26-1889 J. R. Simplot Company	14003 N RIVERGATE BLVD	PORTLAND		45.6248 -122.785		13.64	99	899	39	289	14	114		109	23	22.475 0.606725	57.8 0.235919	22.8 0.598077	21.8 0.625511	res	Yes	Yes	Yes Yes	Standard Active	1117	9
NWR	41051	26 MULTNOMAH	26-0386 Hexion Inc.	10915 N LOMBARD ST	PORTLAND		45.6055 -122.766		13.65	99	899	39	289	14	114	9	109		39 22.475 0.607468	57.8 0.236208	22.6 0.536077	21.6 0.025511	Yes	Yes	TES.	No No	Simple Active	6176	9
NWR	41051	26 MULTNOMAH	26-2025 Zenith Energy Terminals Hold		PORTLAND		45.5607 -122.737		13.03	99	899	77	327	14	114				79 22.475 0.622649	65.4 0.213976	22.8 0.613773		Yes	Yes	No.	No No	Title V Active	1148	9
NWR	41051	26 MULTNOMAH	26-2028 Kinder Morgan Liquids Termin		PORTLAND		45.5625 -122.744		13.99	33	899	"	294	14	114				136 22.475 0.622649	58.8 0.237994	22.8 0.613773		Yes	Yes	Yes	NO NO	Title V Active	1151	9
NWR	41051	26 MULTNOMAH	26-2043 CertainTeed Corporation		PORTLAND		45.568 -122.743		14.17	99	899	39	289	24	174		109		60 22.475 0.630418	57.8 0.245132	24.8 0.571316	21.8 0.649937	Yes	Yes	Yes	Yes Yes	Standard Active	1154	9
NWR	41051	26 MULTNOMAH	26-1865 EVRAZ Inc. NA	14400 N RIVERGATE BLVD	PORTLAND		45.6256 -122.779		14.17	873	1673	493	743	340			309		31 40.575 0.352931	148.6 0.096367	88 0.162729	61.8 0.049937	Yes	Yes	Yes	Yes Yes	Title V Active	1109	9
NWR	41051	26 MULTNOMAH		9045 N RAMSEY BLVD	PORTLAND		45.6242 -122.77		14.52	99	899	493 39	789	14	114		109		39 22.475 0.645906	57.8 0.251155	22.8 0.636699	21.8 0.665905	Yes	Yes	Yes	Yes Yes	Simple Active	6097	,
NWR	41051	26 MULTNOMAH	26-3071 SSA Pacific, Inc.	15550 N LOMBARD ST	PORTLAND		45.6346 -122.771		14.92	39	833	39	209		114		109		39 22.475 0.845908	37.6 0.231133	22.8 0.654202	21.8 0.684211	ies	165	162	Yes Yes	Simple Active	1335	9
NWR	41051	26 MULINOMAH 26 MULTNOMAH	26-3310 Metropolitan Service District		PORTLAND		45.6546 -122.7/1		14.92	99	899		289	14	114		109	39	39 22 475 0 665903	57.8 0.25893	22.8 0.654202	21.8 0.684211	No	No	Yes	Yes Yes	Simple Active	1335	9
NWR	41051	26 MULTNOMAH 26 MULTNOMAH	26-1815 Owens Corning Roofing and A		PORTLAND		45.6142 -122.752		14.97	99	899 899	39	289	99	114	9	109	39	46 22.475 0.665903	57.8 U.25893 57.8 U.267599	22.8 U.656411 39.8 U.388624	21.8 0.686522	Yes	Yes	Yes	Yes Yes	Standard Active	1432	9
NWR NWR	41051	26 MULTNOMAH 26 MULTNOMAH	26-2944 Gunderson LLC	4350 NW YEUN AVE	PORTLAND		45.5493 -122.719		15.47	99	899	39	289			108	208		46 22.4/5 U.68819/	57.8 0.267599 57.8 0.268633	39.8 U.388624 41.6 U.373246	41.6 0.373246	Yes	Yes	Yes	NO NO Yes Yes	Standard Active	1281	9
												39	289					3	100	57.8 0.268633			No	Yes	Yes	Yes Yes	Standard Active	1281	9
NWR NWR	41051	26 MULTNOMAH	26-2807 Columbia Export Terminal. LL		PORTLAND		45.6358 -122.769		15.64 15.70		899		289		114	9	109				22.8 0.68606	21.8 0.717531	No	No	Yes	Yes Yes			9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-3224 Vigor Industrial, LLC 26-2197 Daimler Trucks North America	5555 N CHANNEL AVE BIDE 71	PORTLAND PORTLAND		45.5625 -122.716 45.5728 -122.715		15.70	99	899	39	289 289	124	224				164 22.475 0.698628 170 22.475 0.698628	57.8 0.271655 57.8 0.271655	44.8 0.350484 22.8 0.68867		Yes	Yes	Yes	NO NO	Title V Active Title V Active	1360 1171	9
NWR	41051	26 MULTNOMAH	26-1869 Columbia Steel Casting Co., In		PORTLAND		45.5996 -122.729		15.94	99	899	39	209	28	178				72 22.475 0.698628	37.8 0.271033	25.6 0.62264		ies	165	162	No No	Standard Active	1111	9
NWR	41051	26 MULINOMAH 26 MULTNOMAH		7406 NW 30TH AVE	PORTLAND		45.5996 -122.729		15.94	99	899	39	289	14	114	9	109		72 22.475 0.709214 22.475 0.715465	57.8 0.278202	25.6 0.62264	21.8 0.737619	Yes	No	Yes	NO NO Yes Yes	Standard Active	1111	9
NWR	41051	26 MULINOMAH 26 MULTNOMAH	26-1885 Zinkpower-Portland LLC 26-1814 Solenis LLC	3366 NW YEON AVE	PORTLAND		45.5494 -122.712		16.08	99	899	39	289	14	114		109		39 22.475 0.715465	57.8 0.278202 57.8 0.281104	22.8 0.705267	21.8 0.737619	Yes	Yes	Yes	Yes Yes	Standard Active	1115	9
NWR	41051	26 MULTNOMAH	26-0100 City of Portland Bureau of En		PORTLAND		45.5965 -122.718		16.61	99	899	39	289	14	114		109		51 22.475 0.739254	57.8 0.287452	22.8 0.728717	21.8 0.762144	Yes	165	Yes	Yes Yes	Standard Active	1021	9
NWR	41051	26 MULTNOMAH 26 MULTNOMAH	26-0026 Rodda Paint Co.	W 5001 N. COLUMBIA BLVD. 6123 N MARINE DR	PORTLAND		45.5965 -122.718		16.51	99	899	39	289		114		109		51 22.475 U.739254 39	57.8 0.287452	22.8 0.728717	21.8 0.762144	Yes	Yes	Yes	Yes Yes	Standard Active	959	9
NWR										783			291	30									No	No	Yes	Yes Yes	Standard Active	1161	9
NWR NWR	41051	26 MULTNOMAH 26 MULTNOMAH	26-2068 ESCO Group, LLC	2141 NW 25TH AVE	PORTLAND PORTLAND	97210 97217-7472		523421 5042984	17.03 17.73	283	1083 899	41 39	291 289		130	30	130		59 27.075 0.62895 56 22.475 0.788968	58.2 0.292591 57.8 0.306783	26 0.654955 22.8 0.777721	26 0.654955	res	Yes	Yes	Yes Yes			9
			26-1894 Herbert Malarkey Roofing Co							99	899	39	289			9							Yes	Yes	Yes	NO NO Yes Yes	Standard Active	1121	9
NWR	41051	26 MULTNOMAH	26-3048 Oil Re-Refining Company Inc.		PORTLAND		45.6135 -122.711		17.76 17.81	99	899	39	289		114	9	109	39	39 22.475 0.790365	57.8 0.307326	22.8 0.779098	21.8 0.814837	Yes	Yes	Yes	Yes Yes		1322	9
NWR	41051	26 MULTNOMAH	26-0146 Ash Grove Cement Company		PORTLAND		45.5512 -122.695							14	114						22.8 0.781055		No	No	Yes	NO NO	Simple Active	1059	9
NWR	41067	34 WASHINGTON	34-9514 Regenvx LLC	13240 SW Wall St	Portland		45.4256 -122.759		17.88	99	899	39	289						39 22.475 0.795598	57.8 0.309361			Yes	Yes	No	No No	Simple Active	3233	9
NWR NWR	41051 41051	26 MULTNOMAH 26 MULTNOMAH	26-2832 Portland State University	1900 SW 4th Ave	PORTLAND PORTLAND		45.5098 -122.681		18.23	99	899 899	39	289 289	14	114		109	39	39 22.475 0.81092	57.8 0.315319	22.8 0.799361		Yes	Yes	Yes	No No	Simple Active	1264	9
NWR							45.6157 -122.715 45.6119 -122.702			99	899	39	289	14 21	114			39 3	22.475 0.811659	57.8 0.315606	22.8 0.800089	21.8 0.836791	Yes	Yes	Yes	Yes Yes	Simple Active	1748	9
	41051	26 MULTNOMAH	26-2777 Graphic Packaging Internation		PORTLAND				18.48		899		289				121		150 22.475 0.822174	57.8 0.319695	24.2 0.763569	24.2 0.763569	Yes	Yes	Yes				9
NWR		26 MULTNOMAH	26-3009 Arclin Surfaces, Inc.	2301 N COLUMBIA BLVD	PORTLAND		45.5888 -122.691		18.48	99		45		9	109		109		00 22.475 0.822338	59 0.313255	21.8 0.8478	21.8 0.8478	Yes	Yes	Yes	Yes Yes	Title V Active	1303	9
NWR	41051	26 MULTNOMAH	26-2050 Oregon Health and Sciences L				45.4995 -122.685		18.50	99	899	83	333	14	114		109	39	39 22.475 0.822943	66.6 0.277712	22.8 0.811212	21.8 0.848424	Yes	Yes	Yes	Yes Yes	Title V Active	1157	9
NWR	41051	26 MULTNOMAH	26-2003 Temco, LLC A Limited Liability		PORTLAND		45.5362 -122.675		18.59					21	121		109				24.2 0.768182	21.8 0.852752	No	No	Yes	Yes Yes	Standard Active	1141	9
NWR	41051	26 MULTNOMAH	26-3272 OLDCASTLE APG, INC.	1402 N RIVER ST	PORTLAND		45.5402 -122.68		18.59						114		109				22.8 0.815351	21.8 0.852752	No	No	Yes	Yes Yes	Simple Active	1401	9
NWR	41051	26 MULTNOMAH	26-0242 Glass to Glass LLC	866 N COLUMBIA BLVD	PORTLAND		45.5841 -122.676		18.98						114	9	109				22.8 0.832335	21.8 0.870516	No	No	Yes	Yes Yes	Simple Active	5470	9
NWR	41067	34 WASHINGTON	34-0007 Fought & Company, Inc.	14255 SW 72ND AVE	TIGARD		45.4171 -122.749		19.11						114				39		22.8 0.838266		No	No	Yes	No No	Standard Active	1821	9
NWR	41051	26 MULTNOMAH	26-3021 EcoLube Recovery LLC	11535 N FORCE AVE	PORTLAND		45.6062 -122.694		19.20	99	899	39	289	14	114	9	109	39	39 22.475 0.854247	57.8 0.332166	22.8 0.842071	21.8 0.880698	Yes	Yes	Yes	Yes Yes	Standard Active	1309	9
NWR	41051	26 MULTNOMAH	26-0285 Portland General Electric Con		PORTLAND		45.5153 -122.672		19.27	99	899	39	289						22.475 0.857268	57.8 0.333341			Yes	Yes	No	No No	Simple Active	5813	9
NWR	41051	26 MULTNOMAH	26-2968 Mondelez Global LLC	100 NE COLUMBIA BLVD	PORTLAND		45.5818 -122.664		19.74	99	899	39	289					39	54 22.475 0.878378	57.8 0.341549			Yes	Yes	No	No No	Standard Active	1290	9
NWR	41051	26 MULTNOMAH	26-9818 Ultimate RB. Inc.	9945 N BURGARD WAY	PORTLAND	97203	45.6133 -122.778	525741 5048548	19.99					14	114	9	109				22.8 0.876707	21.8 0.916923	No	No	Yes	Yes Yes	Simple Active	4736	9

SourceNumber 03-1924	ESCode	ProcessCo	de ESDescription N	OX ReleasePointCo	de Release Point Description He	ight Dia	meter Ex	itGasTem E	xitGasVı I	ExitGasFlow I	atitude I	.ongitude	
03-2032 05-2042	EU2	P-1	Cleaver Brooks Boilers 1 and 2	5.4 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.9122	-122 8286	Dyno Nobel Incorporated
05-2042 05-2042	EU8 EU1	P-1 P-2	Tail Gas Vent and Stack Reformer Bros Furnace	2.58 RP-GS 0.907 RP-GS	Default parameters for release po Default parameters for release po Default parameters for release po	40	5	72 72	40	47100 47100	45.9122 45.9122	-122.8286	Dyno Nobel Incorporated Dyno Nobel Incorporated
03-2145	Al	P-1	Aggregate Insignificant Activities	1 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.3564	-122.6154	Willamette Falls Paper Company, Inc.
03-2145 03-2145 03-2145	B1/B2 B1/B2 B3	P-2 P-1 P-2	Boilers Boilers Boiler	59.8 STK-1 0 STK-1 16 STK-2	Boiler 1 and 2 stack Boiler 1 and 2 stack Boiler 3 stack	185 185 170	12.7 12.7 6.3	317 317 319	8.9 8.9 30	66837 66837 57908	45.3543 45.3543 45.3544		Willamette Falls Paper Company, Inc. Willamette Falls Paper Company, Inc. Willamette Falls Paper Company, Inc.
03-2145	B3	P-1	Boiler	0 STK-2	Boller 3 stack	170	6.3	319	30	57908	45.3544	-122.618	Willamette Falls Paper Company, Inc.
03-2145 03-2145	PM1 PM2	P-1 P-1	Paper Machine 1 Paper Machine 2	0.518 RP-GS 0.238 RP-GS	Default parameters for release po Default parameters for release po	40	5	72 72	40	47100 47100	45.3564 45.3564	-122.6154	Willamette Falls Paper Company, Inc. Willamette Falls Paper Company, Inc.
03-2145 03-2475	PM3	P-1	Paper Machine 3	0.085 RP-GS	Default parameters for release po	40	5	72	40	47100	45.3564		Wilsonville Concrete Products, LLC
03-2505 05-2605	NGC DRYER NG	P-1 P-1	Natural Gas Combustion DRYER NATURAL GAS	1.34 RP-GSF 5.33 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.3296 45.8937	-122.8102	Orchid Orthopedic Solutions Oregon, Inc Forest Energy Oregon, LLC
05-2605 03-2624	DRYER AI	P-1 P-1	D-107 DRYER Aggregate Insignificant Activities	0 RP-GS 0 RP-FS	Default parameters for release po Default parameters for release po	40 20	5 50	72 72			45.8937 45.4356	-122.6127	Forest Energy Oregon, LLC Blount, Inc.
03-2624 03-2631	NGC HTO	P-1 P-1	Natural Gas Combustion Heat Treat Ovens	3.55 RP-GSF 0.934 RP-GS	Default parameters for release po Default parameters for release po	60 40	- 8 - 5	300 72	37 40	111600 47100	45.4356 45.3552	-122.6127 -122.3539	Blount, Inc. Eagle Foundry Co.
03-2634	NGC	P-1	Natural Gas Combustion	1.51 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.261	-122.7041	Clarios, LLC Willamette Egg Farms, LLC, Limited Liability Company of Delawa
03-2668 03-2674	NGC	P-1	Natural Gas Combustion	8.86 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4261	-122.5702	Eagle Creek Rock Products, LLC PCC Structurals, Inc.
03-2729 03-2729	AI EU5	P-1 P-1	Aggregate Insignificant Space Heater	1 RP-FS 0.037 RP-GSF	Default parameters for release po Default parameters for release po	20 60	50 8	72 300	7 37	824667.9 111600	45.3892 45.3892	-122.4862 -122.4862	Northwest Pipeline LLC Northwest Pipeline LLC
03-2729 03-2729	EU6 EU1	P-1 P-2	Turbine IC Engines	1.33 STK-2 154 STK-1		39.8 27.1	5.3 1.4	693.5 744.7	53.2 57.3	70421.36 5292.39	45.3869 45.3869	-122.4895 -122.4895	Northwest Pipeline LLC Northwest Pipeline LLC
03-2738 03-2754	NG NGC	P-1 P-1	NATURAL GAS COMBUSTION Natural Gas Combustion	2.67 RP-GSF 1.9 RP-GS	Default parameters for release po Default parameters for release po	60 40	8 5	300 72	37 40	111600 47100	45.4074 45.3997		Consolidated Metco, Inc. Albertson's LLC
03-2754 03-9507	PGC TURBINES	P-1 P-1	Propane Gas Combustion Back-up TURBINES	0 RP-GS 0.00265 RP-GS	Default parameters for release po Default parameters for release po	40 40	5 5	72 72	40 40	47100 47100	45.3997 45.1725		Albertson's LLC Northwest Natural Gas Company
03-9508 03-9677													The S. Morris Co. Clackamas Community College
03-0002 03-0004	NG COMB	P-1	Boilers and Ovens	2.75 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4048	-122.5391	Oldcastle Infrastructure, Inc. Fred Meyer, Inc.
03-0007 03-0010	GEN	P-1	Generator	1.3 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4404	-122.6397	Glacier Northwest, Inc. Water Environment Services
03-0010 03-0010	BLRS-DG BLRS-NG	P-1 P-1	Boilers Boilers	0.208 RP-GSF 0.045 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.4404 45.4404	-122.6397 -122.6397	Water Environment Services Water Environment Services
03-0010 03-0011	FLR GEN	P-1 P-1	Flare GENERATOR	0.586 RP-GS 5.5 RP-GSF	Default parameters for release po Default parameters for release po	40 60	5 8	72 300	40 37	47100 111600	45.4404 45.3759	-122.6397 -122.5892	Water Environment Services Water Environment Services
03-0011 03-0011	BLRS-DG BLRS-NG	P-1 P-1	Boilers Boilers	0.384 RP-GSF 0.219 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.3759 45.3759	-122.5892 -122.5892	Water Environment Services Water Environment Services
03-0011 03-0011	GEN FLR	P-2 P-1	GENERATOR Flare	0.093 RP-GSF 0.867 RP-GS	Default parameters for release po Default parameters for release po	60 40	8	300 72	37 40	111600 47100	45.3759 45.3759	-122.5892	Water Environment Services Water Environment Services
03-0016 03-0020	NGCOMB SAWDUST	P-1 P-1	Natural Gas Combustion SAWDUST	0.085 RP-GSF 1.65 RP-FS	Default parameters for release po Default parameters for release po	60 20	8 50	300 72	37 7	111600 824667.9	45.1743 45.4265		Wolf Steel Foundry, Inc. PCC Structurals, Inc.
03-0020 03-0023	FBE	P-1	Fuel Burning Equipment	5.61 RP-GS	Default parameters for release po	40	5	72	40	47100	45.4265		PCC Structurals, Inc. Bowers Forest Products Corporation
03-0037 03-0037	NGC DC	P-1 P-1	Natural Gas Combustion Diesel Combustion (Back-up)	0.469 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.2269 45.2269		J and D Fertilizer Ltd. J and D Fertilizer Ltd.
03-0040 03-0043							, i						North Clackamas County Water Commission Sunrise Water Facility
03-0048 03-0050													Kaiser Foundation Health Plan of the NW Xerox Corporation
03-0051 03-0087													Kaiser Foundation Health Plan of the NW Water Environment Services
03-0093 03-1791	NGC BLRS-NG	P-1 P-1	Natural Gas Combustion Boilers-NG	1.39 RP-GSF 10.2 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.4331 45.1904		Dave's Killer Bread, Inc. Sanders Wood Products, Inc.
03-1791 05-0009	Al	P-1	Aggregate Insignificant Activities	1 RP-GS	Default parameters for release po	40	5	72	40	47100	45.1904		Sanders Wood Products, Inc. Eagle Star Rock Products, LLC
05-0028 05-1849	ENGINES AI	P-1 P-1	COMPRESSOR ENGINES Aggregate Insignificant Activities	0.066 RP-GSF 1 RP-FS	Default parameters for release po Default parameters for release po	60 20	8 50	300 72	37 7	111600 824667.9	45.9862 45.8476		Northwest Natural Gas Company Cascade Tissue Group-Oregon
05-1849 05-1849	EU15 EU29a-3c	P-2 P-1	Power Boilers Paper Machine 3- Dryers	54.3 STK-1 3.8 RP-GS	EU11 Recovery Furnace No. 2 Default parameters for release po	190 40	8	288 72	65 40	194314 47100	45.8475 45.8476	-122.8022	Cascade Tissue Group-Oregon Cascade Tissue Group-Oregon
05-1849 24-0010	EU29a-2c	P-1	Paper Machine 2- Dryers	1 RP-GS	Default parameters for release po	40	5	72	40	47100	45.8476		Cascade Tissue Group-Oregon Fleetwood Homes, Inc.
24-0056 24-0057													Tree Top, Inc., A Washington Corporation Valley Fresh Foods. Inc.
24-0062 24-0069													United Pacific Forest Products, Inc. Oregon Youth Authority
24-0070 24-0131	NGC	P-1	Natural Gas Combustion	0.672 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.1553	-122.8367	Specialty Polymers, Inc. Bruce Packing Company, Inc. dba BrucePac
24-0138 24-0144													US Foods, Inc. Valley Crematorium, Inc.
24-0148 24-8062	TEST CELL	P-1	TEST CELL	RP-GS	Default parameters for release po	40	5	72	40	47100	45.2587	-122.7653	Columbia Helicopters, Inc. Foster Farms, LLC
24-8063 24-9188													UFP Woodburn, LLC Knife River Corporation - Northwest
24-9198 24-9212													North Valley Seeds, Inc. The Quikrete Companies, LLC
26-0004 26-0007													Zarfas Coffee Inc. Groundwork Coffee PNW, LLC
26-0024 26-0027	BLR	P-1	BOILER	1.96 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5282	-122.4227	Craft Brew Alliance, Inc. SemiConductor Components Industries, LLC
26-0027 26-0040	то	P-1	THERMAL OXIDIZER	0.345 RP-GS	Default parameters for release po	40	5	72	40	47100	45.5282	-122.4227	SemiConductor Components Industries, LLC Tata Communications (US) Inc.
26-0041 26-0045													Boden Store Fixtures, Inc. Western Pacific Building Materials, Inc.
26-0070 26-0072													Portland Roasting Holdings, L.L.C. Pacific Architectural Wood Products, Inc.
26-0086 26-0088	KILN	P-1	TUNNEL KILN	3.73 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.4812	-122.412	Environmentally Conscious Recycling, Inc Mutual Materials Company
26-0092 26-0100	BLRS	P-1	BLRS	5.9 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5965	-122.7176	Aramark Uniform & Career Apparel, LLC City of Portland, Bureau of Environmental
26-0100 26-0100	BLRS GENS	P-2 P-2	BLRS GENS	2.86 RP-GSF 0.0071 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5965 45.5965		City of Portland,Bureau of Environmental City of Portland,Bureau of Environmental
26-0100 26-0100	GENS FLARES	P-1 P-1	GENS DIGESTER GAS FLARES	0.00435 RP-GSF 0.00301 RP-GS	Default parameters for release po Default parameters for release po	60 40	8 5	300 72	37 40	111600 47100	45.5965 45.5965		City of Portland,Bureau of Environmental City of Portland,Bureau of Environmental
26-0101 26-0125													Knife River Corporation - Northwest Omega Cremation and Burial Service, Inc.
26-0129 26-0130													Knife River Corporation - Northwest PCC Structurals
26-0132 26-0133													vXchnge-Facilities, LLC Skyline Tower, LLC
26-0136 26-0141													Providence Health & Services - Oregon The Kroger Co.
26-0151 26-0155													Portland Cremation Center, LLC Family Animal Services, Inc.
26-0159 26-0164													Bob Thomas Auto Body, Inc. U-Haul Repair Center
26-0227 26-0229													STUMPTOWN COFFEE CORP Multnomah County
26-0238 26-0241	NG	P-1	NATURAL GAS COMBUSTION	0.006 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5456	-122.4704	Graphic Packaging International, Inc. Portland State University
26-0285 26-0289	ENGS NG COMB	P-1 P-1	DIESEL ENGINES NATURAL GAS COMBUSTION	0.276 RP-GSF 1.3 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5153 45.5463		Portland General Electric Company Portland Specialty Baking LLC
26-0368 26-0386	NGC COMB	P-1	NATURAL GAS COMBUSTION NATURAL GAS	1.64 RP-GS	Default parameters for release po	40	5	72	40	47100	45.6242		Cintas Corporation No. 3 Hexion Inc.
26-1767													Porter W. Yett Company
26-1799 26-1803													Legacy Emanuel Hospital & Health Center Legacy Emanuel Hospital & Health Center Providence Portland Medical Center
26-1804 26-1814	BOILER BOILER	P-1	Boiler	2.61 RP-GSF 0 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5473		Providence Portland Medical Center Solenis LLC
26-1814 26-1815	NG COMB	P-2 P-1	Natural Gas Combustion	1.98 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5473 45.5493	-122.719	Solenis LLC Owens Corning Roofing and Asphalt, LLC
26-1865 26-1865	EU-27	P-1 P-1	Aggregate Insignificant Pipe Mill Building Fugitives	1 RP-FS 0.934 RP-FS	Default parameters for release po Default parameters for release po	20	50 50	72 72	7	824667.9 824667.9	45.6256 45.6256	-122.7794	EVRAZ Inc. NA EVRAZ Inc. NA
26-1865 26-1865	EU-13 EU-10	P-1 P-1	Other Natural Gas Sources Reheat Furnace	16.3 RP-GSF 91.6 STK-1	Default parameters for release po	72.7	5.7	702.3	24.7	111600 37817.06	45.6256 45.6256	-122.7794	EVRAZ Inc. NA EVRAZ Inc. NA
26-1865 26-1865	EU-23 EU-21	P-1 P-1	Coll Furnaces Heat Treat Process	5.41 RP-GS 4.89 RP-GS	Default parameters for release po Default parameters for release po	40	5	72 72	40	47100 47100	45.6256 45.6256	-122.7794	EVRAZ Inc. NA EVRAZ Inc. NA
26-1865 26-1865 26-1867	EU-12 EU-20	P-2 P-1	Other Torching Operations Low NOx NG sources	3.3 RP-GS 2.08 STK-2	Default parameters for release po	40 78.9	4.4	72 389.3	21.8	47100 19888.54	45.6256 45.6256	-122.7794	EVRAZ Inc. NA EVRAZ Inc. NA
	NGC	P-1	Natural Gas Combustion CAPS TO1	18.7 RP-GSF	Default parameters for release po	60	8	300	37	111600 111600	45.4623		PCC Structurals, Inc. Owens Brockway Glass Container Inc.

26-1876	EU7	P-1	Boiler	0.945 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5631		Owens Brockway Glass Container Inc.
26-1876 26-1876	EU7 EU4	P-2 P-3	Boiler FURNACE	0 RP-GSF 81 STK-1	Default parameters for release po Furnace A stacks	60 71.4	8 3.1	300 336.7	37 50.7	111600 22960.03	45.5631 45.4623	-122.6143	Owens Brockway Glass Container Inc. Owens Brockway Glass Container Inc.
26-1876 26-1885	EU4 BOILER	P-1 P-1	FURNACE NG BOILER	66.3 STK-1 1.86 RP-GSF	Furnace A stacks Default parameters for release po	71.4 60	3.1 8	336.7 300	50.7 37	22960.03 111600	45.4623 45.5394	-122.7122	Owens Brockway Glass Container Inc. Zinkpower-Portland LLC
26-1889 26-1891	NG COMB PRODUCTION	P-1 P-1	GAS COMBUSTION Production	0.12 RP-GS 1.41 RP-GS	Default parameters for release po Default parameters for release po	40 40	5 5	72 72	40 40	47100 47100	45.6248 45.6229	-122.7838	J. R. Simplot Company Ash Grove Cement Company
26-1894 26-1894	NG OVEN	P-1 P-1	NATURAL GAS Fiberglass Mat Curing Oven	9.11 RP-GSF 2.33 RP-GS	Default parameters for release po Default parameters for release po	60 40	8 5	300 72	37 40	111600 47100	45.5911 45.5911		Herbert Malarkey Roofing Company Herbert Malarkey Roofing Company
26-1917 26-1941													Portland Sand and Gravel Company Ross Island Sand & Gravel Co.
26-2013 26-2025	BOIL/FURN	P-1	Boilers and furnaces	1.94 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5607	-122.7369	Grain Craft Zenith Energy Terminals Holdings, LLC
26-2025 26-2025	BOIL/FURN BOIL/FURN	P-2 P-3	Boilers and furnaces Boilers and furnaces	0 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5607 45.5607		Zenith Energy Terminals Holdings, LLC Zenith Energy Terminals Holdings, LLC
26-2028 26-2028	BOILER BOILER	P-1 P-2	Boilers Boilers	0 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5625 45.5625		Kinder Morgan Liquids Terminals LLC Kinder Morgan Liquids Terminals LLC
26-2043 26-2043	NG COMB OIL COMB	P-1 P-1	NATURAL GAS COMBUSTION OIL COMBUSTION	2.43 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.568 45.568		CertainTeed Corporation CertainTeed Corporation
26-2050 26-2050	AI EU1	P-1 P-1	Aggregate Insignificant Activities Boiler 2	1 RP-FS 0.022 STK-1	Default parameters for release po Boiler 2 - EU 1 Exhaust duct is rect	20 214	50 12	72 385	7 22	824667.9 149288.45	45.4991 45.4991		Oregon Health and Sciences University Oregon Health and Sciences University
26-2050 26-2050	EU1 EU2	P-2 P-1	Boiler 2 Boiler 5	0 STK-1 0.594 STK-2	Boiler 2 - EU 1 Exhaust duct is rect Boiler 5 - EU2	214 31.3	12 5	385 539	22 20	149288.45 23561.94	45.4991 45.4991		Oregon Health and Sciences University Oregon Health and Sciences University
26-2050 26-2050	EU2 EU3	P-2 P-1	Boiler 5 Boiler 6 and 7	0.011 STK-2 7.02 STK-3	Boiler 5 - EU2 Boiler 6 - EU3	31.3 31	5 3.5	539 347	20 34	23561.94 19627.1	45.4991 45.4991		Oregon Health and Sciences University Oregon Health and Sciences University
26-2050 26-2068	EU3 3U-10	P-2 P-1	Boiler 6 and 7 NG	0.035 STK-3 2.42 RP-GSF	Boiler 6 - EU3 Default parameters for release po	31 60	3.5 8	347 300	34 37	19627.1 111600	45.4991 45.5374		Oregon Health and Sciences University ESCO Group, LLC
26-2068 26-2068	3U-1 3U-1	P-1 P-2	MELT MELT	8.27 STK-1 0.436 STK-1	MU-1 Melt EAF stack MU-1 Melt EAF stack	55 55	7	80 80	32 32	73890.24 73890.24	45.5373 45.5373		ESCO Group, LLC ESCO Group, LLC
26-2068 26-2068	3U-1 3U-1	P-3 P-4	MELT MELT	0.133 STK-1 0.133 STK-1	MU-1 Melt EAF stack MU-1 Melt EAF stack	55 55	7	80 80	32 32	73890.24 73890.24	45.5373 45.5373		ESCO Group, LLC ESCO Group, LLC
26-2068 26-2068	3U-1 3U-3	P-5 P-1	MELT MH/SR	0.00214 STK-1 0.895 RP-GS	MU-1 Melt EAF stack Default parameters for release po	55 40	7 5	80 72	32 40	73890.24 47100	45.5373 45.5374		ESCO Group, LLC ESCO Group, LLC
26-2068 26-2068	3U-2 3U-2	P-1 P-2	PCS PCS	0.037 RP-GS 0.00193 RP-GS	Default parameters for release po Default parameters for release po	40 40	5 5	72 72	40 40	47100 47100	45.5374 45.5374	-122.703	ESCO Group, LLC ESCO Group, LLC
26-2068 26-2068	3U-2 3U-2	P-3 P-4	PCS PCS	0.000115 RP-GS 0.000115 RP-GS	Default parameters for release po Default parameters for release po	40 40	5 5	72 72	40 40	47100 47100	45.5374 45.5374		ESCO Group, LLC ESCO Group, LLC
26-2197 26-2197	8-AGG 5-BO	P-1 P-1	Aggregate Insignificant Activities Natural Gas Combustion Devices	1 RP-FS 3.51 RP-GSF	Default parameters for release po Default parameters for release po	20 60	50 8	72 300	7 37	824667.9 111600	45.5728 45.5728	-122.7152	Daimler Trucks North America, LLC Daimler Trucks North America, LLC
26-2197 26-2204	6- CUT COMBUSTION	P-1 P-1	Metal Cutting NATURAL GAS EXTERNAL COMBU!	0 RP-GS 9.08 RP-GSF	Default parameters for release po Default parameters for release po	40 60	5 8	72 300	40 37	47100 111600	45.5728 45.5431		Daimler Trucks North America, LLC Boeing Company (The)
26-2390 26-2426	NG COMB	P-1	NATURAL GAS COMBUSTION	3.69 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.6157	-122.7145	Supreme Perlite Company David Douglas Sr Hs Bldg
26-2492 26-2492	AI 5-NG	P-1 P-1	Aggregate Insignificant Activities Natural Gas Combustion Devices	1 RP-FS 0.713 RP-GSF	Default parameters for release po Default parameters for release po	20 60	50 8	72 300	7 37	824667.9 111600	45.609 45.609		Northwest Pipe Company Northwest Pipe Company
26-2545 26-2557													Riverview Abbey Mausoleum Co. Blasen & Blasen Lumber Corp.
26-2579 26-2777	Al	P-1	Aggregate Insignificant Activities	1 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.6119	-122.7022	ALSCO Inc., A Corporation of Nevada Graphic Packaging International, Inc
26-2777 26-2777	BLRS/DRYER BLRS/DRYER	P-1 P-2	Boilers and Dryers Boilers and Dryers	2.45 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.6119 45.6119	-122.7022	Graphic Packaging International, Inc Graphic Packaging International, Inc
26-2778 26-2784													Lewis & Clark College The Reed Institute
26-2832 26-2914	PS-2 BLRS	P-1 P-2	TURBINE BOILERS	0.258 STK-1 3.86 RP-GSF	Default parameters for release po	30 60	2	350 300	25 37	4712.39 111600	45.5098 45.5871		Portland State University Port of Portland
26-2914 26-2914	BLRS FLARE	P-1 P-1	BOILERS DIECING FLARE	2.7 RP-GSF 0.07 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5871 45.5871		Port of Portland Port of Portland
26-2914 26-2914	LARGE GENS SMALL GENS	P-1 P-1	GENERATORS OVER 600 HP GENERATORS UNDER 600 HP	0.000267 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5871 45.5871		Port of Portland Port of Portland
26-2926 26-2944	AGG	P-1	Aggregate insignificant emissions	1 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.5538		Legacy Good Samaritan Hospital and Medical Center Gunderson LLC
26-2944 26-2944	4-NG 3-TC	P-1 P-1	Natural gas combustion devices Plasma/Oxy-fuel metal cutting dev	0.85 RP-GSF 0.079 RP-GS	Default parameters for release po For GS-3, there are actually multip	60 40	8	300 72	37 40	111600 47100	45.5538 45.5538	-122.7195	Gunderson LLC Gunderson LLC
26-2944 26-2944	3-TC 3-TC	P-2 P-3	Plasma/Oxy-fuel metal cutting dev Plasma/Oxy-fuel metal cutting dev	0.058 RP-GS 0.000705 RP-GS	For GS-3, there are actually multip For GS-3, there are actually multip	40 40	5	72 72	40 40	47100 47100	45.5538 45.5538	-122.7195	Gunderson LLC Gunderson LLC
26-2949 26-2952	OVENS NG	P-1	NATURAL GAS FOR THE OVENS	2.58 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5257		The Portland Memorial, Inc United States Bakery
26-2952 26-2952	BOILERS BOILERS	P-1 P-2	Boiler Boiler	1.19 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5257 45.5257	-122.6545	United States Bakery United States Bakery
26-2968 26-2968	OVENS BOILER	P-1 P-1	OVENS NATRUAL GAS BOILER	7.16 RP-GSF 3.37 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5818 45.5818	-122.6638	Mondelez Global LLC Mondelez Global LLC
26-2968 26-3002	BOILER BOILERS	P-2 P-1	BOILER NATURAL GAS BOILERS	0 RP-GSF 0.733 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5818 45.5775	-122.6638	Mondelez Global LLC Siltronic Corporation
26-3002 26-3002	GEN NG COMBUSTIO	P-1	DIESEL GENERATORS OTHER BOILERS AND TO	0.242 RP-GSF 0.085 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5775 45.5775	-122.7552	Siltronic Corporation Siltronic Corporation
26-3002 26-3009	SCRUBBER AIE	P-1 P-1	NOx SCRUBBER Aggregate Insignificant Activities	0.000007 RP-GS 1 RP-FS	Default parameters for release po Default parameters for release po	40 20	5	72 72	40	47100 824667.9	45.5775 45.5888	-122.7552	Siltronic Corporation Arclin Surfaces, Inc.
26-3009 26-3009	EU-4 EU-2	P-1 P-2	Boilers Coating Line 3	3.35 RP-GSF 8.61 RP-GS	Default parameters for release po Default parameters for release po	60	8	300 72	37 40	111600 47100	45.5888 45.5888	-122.6908	Arclin Surfaces, Inc. Arclin Surfaces, Inc.
26-3009 26-3009	EU-2 EU-2	P-3 P-1	Coating Line 3 Coating Line 3	2.46 RP-GS 1.56 RP-GS	Default parameters for release po Default parameters for release po	40	5	72 72	40	47100 47100	45.5888 45.5888	-122.6908	Arclin Surfaces, Inc. Arclin Surfaces, Inc.
26-3021 26-3021	HTR-3 BLRS 1-2	P-1 P-1	HEATER #3 BOILERS	2.11 RP-GSF 0.354 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.6062 45.6062	-122.6938	EcoLube Recovery LLC EcoLube Recovery LLC
26-3021 26-3021	TO-01 HTR-4	P-1 P-1	THERMAL OXIDIZER HEATER #4	0.344 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.6062 45.6062	-122.6938	EcoLube Recovery LLC EcoLube Recovery LLC
26-3021 26-3021	PESCO OPS-1	P-1 P-1	REFINERY OIL POLISHING SYSTEM	0.0000315 RP-GS 0 RP-GS	Default parameters for release po Default parameters for release po	40 40	5	72 72	40	47100 47100	45.6062 45.6062	-122.6938	EcoLube Recovery LLC EcoLube Recovery LLC
26-3038 26-3038	NG COMB EG-1	P-1 P-1	NATRUAL GAS COMBUSTION SOU EMERGENCY GENERATOR	5.45 RP-GSF 0.057 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5387 45.5387	-122.4578	Cascade Corporation Cascade Corporation
26-3048 26-3048	BLR TK HEATERS	P-1 P-1	BOILER COOK TANK HEATERS	2.18 RP-GSF 2.18 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.6135 45.6135	-122.7111	Oil Re-Refining Company Inc. Oil Re-Refining Company Inc.
26-3048 26-3048	ROCKET	P-1 P-2	ROCKET SYSTEM ROCKET SYSTEM	0 RP-GS 0 RP-GS	Default parameters for release po Default parameters for release po	40 40	5	72 72	40 40	47100 47100	45.6135 45.6135	-122.7111	Oil Re-Refining Company Inc. Oil Re-Refining Company Inc.
26-3051 26-3062	NG COMB	P-1	NATURAL GAS COMBUSTION	3.06 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5346		International Paper Company Purina Animal Nutrition LLC
26-3067 26-3067	EU2 EU1	P-1 P-2	Boilers & Pre-heaters Asphalt Convertors	7.8 RP-GSF 8.14 RP-GS	Default parameters for release po Default parameters for release po	60 40	8	300 72	37 40	111600 47100	45.6061 45.6061		Owens Corning Roofing and Asphalt, LLC Owens Corning Roofing and Asphalt, LLC
26-3067 26-3088	EU1	P-1	Asphalt Convertors	0 RP-GS	Default parameters for release po	40	5	72	40	47100	45.6061		Owens Corning Roofing and Asphalt, LLC Coffee Bean International, Inc.
26-3091 26-3131													Uniservice Corporation PFS Crematory, Gresham
26-3131 26-3135 26-3135	FURNACES NG COMB	P-1 P-1	EUGS, T, F FURNACES NATURAL GAS COMBUSTION	5.78 RP-GS 2.36 RP-GS	Default parameters for release po Default parameters for release po	40 40	5	72 72	40 40	47100 47100	45.4961 45.4961		Bullseye Glass Co. Bullseye Glass Co.
26-3135 26-3135 26-3224	AI AI	P-1 P-1	AGGREGATE INSIGNIFICANT EMIS: Aggregate Insignificant	1 RP-GS 1 RP-FS	Default parameters for release po Default parameters for release po Default parameters for release po	40	5	72 72	40	47100 47100 824667.9	45.4961 45.5662	-122.6447	Bullseye Glass Co. Vigor Industrial, LLC
26-3224 26-3224 26-3228	CUB FLRS	P-1 P-1	Boilers (2) FLARES	5.64 RP-GSF 0.733 RP-GSF	Default parameters for release po Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5662 45.5454	-122.7218	Vigor Industrial, LLC Vigor Industrial, LLC City Of Gresham
26-3228 26-3228 26-3228	EM GEN BLR	P-1 P-1	EMERGENCY GEN SETS BOILER	0.172 RP-GSF 0.076 RP-GSF	Default parameters for release po Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600 111600	45.5454 45.5454	-122.4587	City Of Gresham City Of Gresham
26-3228 26-3228 26-3228	GEN 9302 GEN 9301	P-1 P-1 P-1	COGEN 3508LE COGEN 3508LE	0.076 RP-GSF 4.88 RP-GS 0.8 RP-GS	Default parameters for release po	40 40	5 5	300 72 72	40 40	47100 47100	45.5454 45.5454 45.5454	-122.4587	City Of Gresham City Of Gresham City Of Gresham
26-3240 26-3240	BLRS B2 BLRS B1	P-1 P-1	BUILDING 2 BOILERS NG BUILDING 1 BLRS	1.7 RP-GSF 1.09 RP-GSF	Default parameters for release po Default parameters for release po Default parameters for release po	60 60	8 8	300 300	37 37	111600 111600	45.5454 45.5206 45.5206	-122.4474	Microchip Technology Incorporated Microchip Technology Incorporated
26-3240 26-3240 26-3240	GEN B2 CTO	P-1 P-1 P-1	BUILDING 1 BLRS BUILDING 2 GENERATORS DIESLE CTO BURINING NATURAL GAS	1.09 RP-GSF 0.736 RP-GSF 0.419 RP-GSF	Default parameters for release po	60 60	8 8	300 300 300	37 37	111600 111600 111600	45.5206 45.5206 45.5206	-122.4474	Microchip Technology Incorporated Microchip Technology Incorporated Microchip Technology Incorporated
26-3240 26-3240 26-3240	GEN B1 BRLS B2	P-1	BUILDING 1 GENERATORS DIESEL BUILDING 2 BOILERS OIL	0.419 RP-GSF 0.331 RP-GSF 0.00279 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37	111600 111600 111600	45.5206 45.5206 45.5206	-122.4474	Microchip Technology Incorporated Microchip Technology Incorporated Microchip Technology Incorporated
26-3240 26-3240 26-3240	FIRE PUMP BLRS B1	P-2 P-1 P-2	BUILDING 2 BOILERS OIL FIRE PUMP BUILDING 1 BLRS	0.00279 RP-GSF 0.00000217 RP-GSF 0 RP-GSF	Default parameters for release po Default parameters for release po Default parameters for release po	60 60	8 8 8	300 300 300	37 37 37	111600 111600 111600	45.5206 45.5206 45.5206	-122.4474	Microchip Technology Incorporated
26-3240 26-3241 26-3242	NG COMB	P-2 P-1	NATURAL GAS rto AND OTHER EQI	0 RP-GSF 2.89 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37	111600 111600	45.5206 45.5755		Microchip Technology Incorporated Hydro Extrusion Portland, Inc.
26-3242 26-3243 26-3253													Lakeside Industries, Inc. H&H Lumber, LLC Darigold, Inc.
26-3254	GEN B433	P-1	Emergency Generator	9.98 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5749		Oregon Air National Guard
26-3254 26-3254	GEN B145 GEN B252	P-1 P-1	Emergency Generator Emergency Generator	5.27 RP-GSF 2.07 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5749 45.5749	-122.5914	Oregon Air National Guard Oregon Air National Guard
26-3254 26-3254	GEN B210 GEN B251	P-1 P-1	Emergency Generator Emergency Generator	2.06 RP-GSF 2.05 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37	111600 111600	45.5749 45.5749	-122.5914	Oregon Air National Guard Oregon Air National Guard
26-3254	GEN B254	P-1	Emergency Generator Emergency Generator	1.86 RP-GSF 1.57 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5749 45.5749	-122.5914	Oregon Air National Guard Oregon Air National Guard
26-3254	GEN B155	P-1											
26-3254 26-3254	GEN B155 GEN B180 NG	P-1 P-1	Emergency Generator Natural Gas Combustion in heating	1.38 RP-GSF 1.05 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37	111600 111600	45.5749 45.5749	-122.5914	Oregon Air National Guard Oregon Air National Guard
26-3254 26-3254 26-3254 26-3254	GEN B155 GEN B180 NG GEN B255 ETC	P-1 P-1 P-1 P-4	Emergency Generator Natural Gas Combustion in heating Emergency Generator Engine Test Cell	1.05 RP-GSF 0.75 RP-GSF 0.282 RP-GSF	Default parameters for release po Default parameters for release po Default parameters for release po	60 60	8 8 8	300 300 300	37 37 37	111600 111600 111600	45.5749 45.5749 45.5749	-122.5914 -122.5914 -122.5914	Oregon Air National Guard Oregon Air National Guard Oregon Air National Guard
26-3254 26-3254 26-3254	GEN B155 GEN B180 NG GEN B255	P-1 P-1 P-1	Emergency Generator Natural Gas Combustion in heating Emergency Generator	1.05 RP-GSF 0.75 RP-GSF	Default parameters for release po Default parameters for release po	60 60	8	300 300	37 37	111600 111600	45.5749 45.5749	-122.5914 -122.5914 -122.5914 -122.5914 -122.5914	Oregon Air National Guard Oregon Air National Guard

26-3254 26-3254	ETC	P-1	Engine Test Cell	0.012 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37	111600	45.5749 45.5749		Oregon Air National Guard
26-3254	GEN NE GEN SE	P-1 P-1	Emergency Generator Emergency Generator	0.000256 RP-GSF 0.000256 RP-GSF	Default parameters for release po	60	8 8	300 300	37 37	111600 111600	45.5749		Oregon Air National Guard Oregon Air National Guard
26-3254	GEN NW	P-1	Emergency Generator	0.000226 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5749	-122.5914	Oregon Air National Guard
26-3254	GEN SW	P-1	Emergency Generator	0.000226 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5749	-122.5914	Oregon Air National Guard
26-3265 26-3267	GENS	P-1	GENS	4.91 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5465	-122 4805	Glacier Northwest, Inc. U.S. Bancorp
26-3291	NG COMB	P-1	NATURAL GAS COMBUSTION	1.98 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5779		The Boeing Company
26-3291	FP	P-1	FIRE PUMPS	0.917 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5779		The Boeing Company
26-3291 26-3305	GENS	P-1	GENERATORS	0.328 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5779	-122.614	The Boeing Company Lakeside Industries. Inc.
26-3310	Landfill	P-1	Landfill Gas Flares	1.41 RP-GS	Default parameters for release po	40	5	72	40	47100	45.6142	-122.7516	Metropolitan Service District
26-3317	NG	P-1	NATRUAL GAS COMBUSTION	0.244 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.574	-122.6	Silver Eagle Manufacturing Co.
26-9535 26-9537	EU3	P-1	Space Heaters	0.364 RP-GSF	Default parameters for release po	60	8	300	37	111589.35	45.5406	-122 4737	Cadman Materials, Inc. Owens Corning Foam Insulation, LLC
26-9545													Regency Portland
26-9550 34-0001	ENGS	P-1	ENGS	0.27 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4959	-122.6483	Portland General Electric Company Peterkort Roses, L.L.C.
34-0001													Legacy Meridian Park Hospital
34-0004	FLARE	P-1	FLARE	7.24 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.493		Hillsboro Landfill Inc.
34-0004	TUB GRIND	P-1	TUB GRINDER	7.88 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.493		Hillsboro Landfill Inc.
34-0004 34-0005	TIPPER NG	P-1 P-1	TIPPER NATURAL GAS COMBUSTION	4 RP-GSF 2.33 RP-GSF	Default parameters for release po	60	8 8	300 300	37 37	111600 111600	45.493 45.3839		Hillsboro Landfill Inc.
34-0009	NG COMB	P-1	NATURAL GAS COMBUSTION	2.08 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4801	-122.7821	International Paper Company
34-0017 34-0048	NG COMB	P-1	Natrual Gas	0.757 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5467		Dynic USA Corp. Cascade Funeral Directors
34-0055	NG COMB	P-1	NATURAL GAS COMBUSTION	2.5 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5413		Qorvo US, Inc.
34-0063	BLRS	P-1	BOILERS	2.97 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.386		Lam Research Corporation
34-0070	CRE CR		CREMATORY	0.225329315 RP-GSF 0.108638862 RP-GSF	Default parameters	60	8	300 300	37	111600	45.4901 45.5665		Springer & Son, Inc.
34-0079	GEN		COFFEE ROASTER GENERATOR	0.018112752 RP-GSF	Default parameters Default parameters	60	8	300	37 37	111600 111600	45.5413		West Coast Coffee Company Qorvo US, Inc.
34-0083	GEN		GENERATOR	0.8247771 RP-GSF	Default parameters	60	8	300	37	111600	45.5227	-122.9904	Flexential Colorado Corp.
34-0090	CEN		CENERATOR	0.24646707 DD 666	Defends acceptant		0	200	27	111000	45 5333		Finley-Sunset Hills Mortuary
34-0096 34-0101	GEN		GENERATOR	0.21616707 RP-GSF	Default parameters	60	8	300	37	111600	45.5323		Clean Water Services / Clean Water Institute Landmark Ford, Inc.
34-0134	NG	P-1	NATURAL GAS COMBUSTION	0.51 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.3667	-122.7849	Ardent Mills, LLC
34-0142 34-0149	GEN ENG	P-1	GENERATOR AVERY GENERATOR DSG	0.283917388 RP-GSF 0.0000465 RP-GSF	Default parameters Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5498 45.3716		City of Hillsboro Portland General Electric Company
34-0149 34-0157	ENG EMGEN	P-1 P-1	AVERY GENERATOR DSG EM GEN 1-16	0.0000465 RP-GSF 0.491 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37	111600	45.3716 45.5471	-122.9287	STACK Infrastructure, Inc.
34-0157	LSGEN	P-1	LS GEN 1-3	0.0018 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5471	-122.9287	STACK Infrastructure, Inc.
34-0183 34-0186	GEN GEN	P-1	GEN GENERATOR	20.9 RP-GSF 21.6274884 RP-GSF	Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5509 45.566		STACK Infrastructure, Inc. Beaver Ventures LLC
34-0186 34-0222	GEN ENGS	P-1	GENERATOR ENGS	21.6274884 RP-GSF 2.05 RP-GSF	Default parameters Default parameters for release po	60	8	300	37	111600	45.566 45.5571		QTS Investment Properties Hillsboro, LLC
34-0235	GENS 101-111	P-1	EMERGENCY GENERATORS	0.977 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.55	-122.9727	NTT Global Data Centers HI, LLC
34-0235	GEN 1H NOT RUNNING	P-1	EMERGENCY GENERATOR 1H	0.09 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.55	-122.9727	NTT Global Data Centers HI, LLC
34-0238 34-0241	GEN1-3	P-1	GENERATORS 1-3	0 0.89 RP-GSF	Default parameters for release po	60	8	300	37	111600	45,557	-122 9227	KoMiCo Hillsboro LLC Flexential Colorado Corp
34-0241	GEN5-10	P-1	GENERATORS 5-10	0.734 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.557	-122.9227	Flexential Colorado Corp
34-0241	GEN4	P-1	GENERATOR 4	0.348 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.557		Flexential Colorado Corp
34-2066 34-2066	H-BLR H-BLR	P-2 P-1	Hog Fuel Boilers Hog Fuel Boilers	22.8 STK-1 13.9 STK-1		114.8 114.8	5.6 5.6	357 357	38.7	57191.05 57191.05	45.4673 45.4673		Stimson Lumber Company Stimson Lumber Company
34-2510	NO NOX			0									Jewett-Cameron Seed Company
34-2565													Hampton Lumber Mills - Banks Inc.
34-2584 34-2585													Woodfold Mfg., Inc. Providence St. Vincent Medical Center
34-2623	GENS	P-1	GENERTORS	29.1 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4008	-122.7619	Clean Water Services
34-2623	HEATERS	P-1	HEATERS	0.34 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4008		Clean Water Services
34-2623 34-2623	BLRS BLRS	P-1 P-2	BOILERS BOILERS	0.048 RP-GSF 0.019 RP-GSF	Default parameters for release po Default parameters for release po	60	8 8	300 300	37 37	111600 111600	45.4008 45.4008		Clean Water Services Clean Water Services
34-2623	FLARES	P-1	FLARES	0.000987 RP-GS	Default parameters for release po	40	5	72	40	47100	45.4008	-122.7619	Clean Water Services
34-2636 34-2638	NG COMB	P-1	NATURAL GAS COMBUSTION	2.54 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.499		Rogers Northwest, Inc. Tektronix. Inc.
34-2639	BLR	P-1	BOILER	2.54 RP-GSF	DEFAULT PARAMETERS	60	8	300	37	111600	45.499		Portland Community College
34-2640													Wilsonville Concrete Products
34-2674 34-2678	NG	P-1	NATURAL GAS COMBUSTION	1.7 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5134	122 0014	Knife River Corporation - Northwest TTM Technologies North America, LLC
34-2688	IVG	F-1	NATURAL GAS CONIBOSTION	1.7 KF-03F	belauit parameters for release po	00	0	300	3/	111000	43.3134	-123.0014	Oregon-Canadian Forest Products, Inc.
34-2750	CR		COFFEE ROASTER	0.088678881 RP-GSF	Default parameters	60	8	300	37	111600	45.5556		Longbottom Coffee & Tea Inc.
34-2753 34-2753	FLARES GENS	P-1 P-1	FLARES DIGESTER GAS ENGINE GENERATORS DIGESTER G	0.52 RP-FS 40.9 RP-GSF	Default parameters for release po Default parameters for release po	20 60	50 8	72 300	7	824667.9 111600	45.4977 45.4977		Clean Water Services Clean Water Services
34-2753	NG COMB	P-1	NATURAL GAS COMBUSTION	1.21 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4977		Clean Water Services
34-2753	BLRS	P-1	BOILERS DIGESER GAS	0.173 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4977		Clean Water Services
34-2769 34-2775	С		CONCRETE	0.016933462 RP-GSF	Default parameters	60	8	300	37	111600	45.5375	-122.8969	Glacier Northwest, Inc. Knife River Corporation - Northwest
34-2773	во	P-1	NATURAL GAS BAKE OVENS NG CC	1.91 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4831	-122.7874	Bimbo Bakeries USA, Inc.
34-2783	BLR	P-1	SUPERIOR NG BOILER	1.49 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.4831		Bimbo Bakeries USA, Inc.
34-2790 34-2804	NG BLRS	P-1 P-2	COMBUSTION NG BOILERS	1.99 RP-GSF 1.05 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37 37	111600 111600	45.5519 45.5021		Tokyo Ohka Kogyo America, Inc. Analog Devices. Inc.
34-2804	BLRS	P-2	NG BOILERS NG BOILERS	0.465 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5021		Analog Devices, Inc. Analog Devices, Inc.
34-2804	ENG B59	P-1	ENGINE BUILDING 59	0.103 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5021		Analog Devices, Inc.
34-2804 34-2804	ENG B57 ENG B60	P-1 P-1	ENGINE BUILDING 57 ENGINE BUILDING 60	0.063 RP-GSF 0.011 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5021 45.5021		Analog Devices, Inc. Analog Devices, Inc.
34-2813	BLRS	P-1	BOILERS 1-5	0.949 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5465	-122.9306	Jireh Semiconductor Incorporated
34-2813	ENG 1-3	P-1	ENGINES 1-3	0.176 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5465	-122.9306	Jireh Semiconductor Incorporated
34-2813 34-9507	ENG 4 BLR 1-2	P-1 P-1	ENGINE 4 BOILERS 1-2	0.021 RP-GSF 2.35 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300	37 37	111600 111600	45.5465 45.5572		Jireh Semiconductor Incorporated Genentech, Inc.
34-9507	EG2	P-2	EMERGENCY GEN 2	0.095 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5572	-122.9262	Genentech, Inc.
34-9507	BLR 3-5	P-1	BOILERS 3-5	0.094 RP-GSF	Default parameters for release po	60	8	300	37	111600	45.5572		Genentech, Inc.
34-9507 34-9507	EG1 FWP	P-2 P-2	EMERGENCY GEN 1 FIRE WATER PUMP	0.052 RP-GSF 0.031 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.5572 45.5572		Genentech, Inc. Genentech, Inc.
34-9514	PO	P-1	PROCESS OPERATIONS	0.78 RP-GS	Default parameters for release po	40	5	72	40	47100	45.4256	-122.7594	Regenyx LLC
34-9514	NG	P-1	NATURAL GAS COMBUSTION	0.55 RP-GS	Default parameters for release po	40	5	72	40	47100	45.4256	-122.7594	Regenyx LLC
34-9514 34-9691	PROPANE	P-1	PROPANE COMBUSTION	0 RP-GS	Default parameters for release po	40	5	72	40	47100	45.4256	-122.7594	Regenyx LLC Fulten-Rose & Mortuary Chapels, Inc.
36-0007													UFP McMinnville, LLC
36-0011	Al	P-1	Aggregate Insignificant	1 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.1606	-123.2444	Riverbend Landfill Co.
36-0011 36-0011	TIP FLRN	P-1 P-1	Tipper Enclosed flare	0 RP-FS 10 3 STK-2	Default parameters for release po	20 30	50 6.3	72 640.6	7 27.5	824667.9 51434.54	45.1606 45.1606		Riverbend Landfill Co. Riverbend Landfill Co.
36-0011	ENG	P-1	Engines (6)	40.4 STK-1		32	5	1200	27.3	29179	45.1606		Riverbend Landfill Co.
36-0012													Carlton Seed, L.L.C.
36-0014 36-0025													Macy & Son Co. dba Macy & Son Funeral Director Tissa, Inc. dba Caravan Coffee
36-0029													Providence Health System-Oregon
36-0031													City of Newberg
36-0041 36-0052	NG COMB	P-1 P-1	NATURAL GAS COMBUSTION NATURAL GAS COMBUSTION	0.018 RP-GSF 0.525 RP-GSF	Default parameters for release po Default parameters for release po	60	8	300 300	37 37	111600 111600	45.274 45.2144		M & W Fiberglass, Inc. Ultimate RB, Inc.
								300	3/				TMS International, LLC
36-1033	Al	P-1	Aggregate Insignificant Activities	1 RP-FS	Default parameters for release po	20	50	72	7	824667.9	45.2289	-123.1627	Cascade Steel Rolling Mills, Inc.
36-1033 36-5034		P-1 P-1	Melt Shop Baghouses Melt Shop Roof	115 STK-1 16.5 STK-2	EAF BH exhaust EAF roof monitor	50 75	12.3 12.3	121 93	104	741454.67 71293.72	45.2289 45.2289		Cascade Steel Rolling Mills, Inc. Cascade Steel Rolling Mills, Inc.
36-1033 36-5034 36-5034	EU-1		Melt Shop Roof Other NG Usage	16.5 STK-2 6.51 RP-GSF	Default parameters for release po	75 60	12.3	93 300	37	71293.72 111600	45.2289 45.2289		Cascade Steel Rolling Mills, Inc. Cascade Steel Rolling Mills, Inc.
36-1033 36-5034 36-5034 36-5034	EU-1 EU-3 Other NG	P-1			Reheat furnace 1	75	5.7	702.3			45.2289		Cascade Steel Rolling Mills, Inc.
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034	EU-3 Other NG EU-7	P-1	Rod and Bar Mill	30.9 STK-3					24.7	36309			
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034	EU-3 Other NG EU-7 EU-6	P-1 P-1	Rolling Mill	0 STK-3	Reheat furnace 1	75	5.7	702.3	24.7	36309	45.2289	-123.1627	Cascade Steel Rolling Mills, Inc.
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034	EU-3 Other NG EU-7	P-1				75 40						-123.1627	
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5038 36-5038	EU-3 Other NG EU-7 EU-6	P-1 P-1	Rolling Mill	0 STK-3	Reheat furnace 1		5.7	702.3	24.7	36309	45.2289	-123.1627	Cascade Steel Rolling Mills, Inc. Cascade Steel Rolling Mills, Inc. C.C. Meisel Co., Inc. Linfield College
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5038 36-5038 36-5313 36-5330	EU-3 Other NG EU-7 EU-6	P-1 P-1	Rolling Mill	0 STK-3	Reheat furnace 1		5.7	702.3	24.7	36309	45.2289	-123.1627	Cascade Steel Rolling Mills, Inc. Cascade Steel Rolling Mills, Inc. C.C. Meisel Co., Inc. Linfield College Knife River Corporation - Northwest
36-1033 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5034 36-5038 36-5038	EU-3 Other NG EU-7 EU-6	P-1 P-1	Rolling Mill	0 STK-3	Reheat furnace 1		5.7	702.3	24.7	36309	45.2289	-123.1627 -123.1627	Cascade Steel Rolling Mills, Inc. Cascade Steel Rolling Mills, Inc. C.C. Meisel Co., Inc. Linfield College

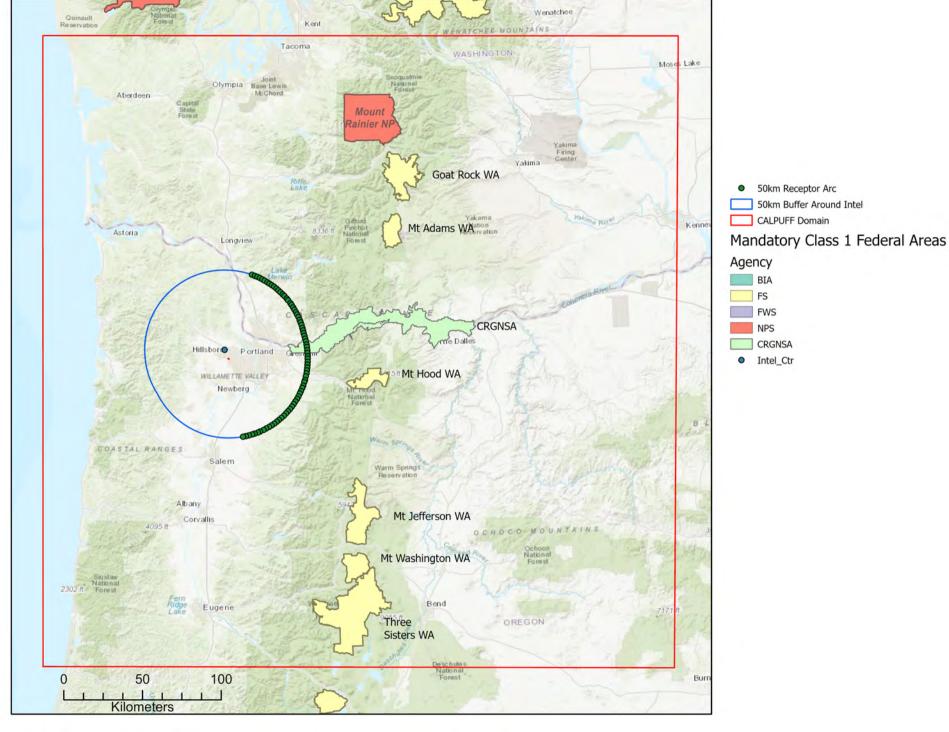
26-2068	ESCode ProcessCo 3U-2 P-1	ode ESDescription CO PCS 50.6	6 1.14	PM2_5 ReleasePoint 1:14 RP-GS	Code ReleasePointDescription He Default parameters for release	ght Diameter Exit	GasTemperature ExitGasVe	locity ExitGasFlowRate 40 4710	Latitude 45.5374	Longitude -122.703
26-1865 26-3067 34-0004	EU-20 P-1 EU1 P-2 FLARE P-1	Low NOx NG sourc 42.: Asphalt Convertor: 40.: FLARE 39.6	7 3.05	0.417 STK-2 3.05 RP-GS 1.81 RP-FS	Default parameters for release Default parameters for release	78.9 4.4 40 5 20 50	389.3 72 77	21.8 19888.5 40 4710 7 824667.	45.6061	-122.7794 -122.7891 -122.97
26-1865 26-1894	EU-10 P-1 CL P-1	Reheat Furnace 34.5 Coater and Lamina 27.3	5 3.48	3.48 STK-1 RP-GS	Default parameters for release	72.7 5.7 40 5	72 702.3 72	24.7 37817.0 40 4710	45.6256	-122.7794 -122.7001
26-2068 34-2753	3U-1 P-1 GENS P-1	MELT 23.1 ENGINE GENERATC 19	9 0.657	0.242 STK-1 0.657 RP-GSF	MU-1 Melt EAF stack Default parameters for release	55 7 60 8	80 300	32 73890.2 37 11160	45.5373 45.4977	-122.7029 -122.9492
26-1865 34-0183	EU-13 P-1 GEN P-1	Other Natural Gas: 14.: GEN 12.:	1 0.698	1.27 RP-GSF 0.698 RP-GSF	Default parameters for release Default parameters for release	60 8	300 300	37 11160 37 11160	45.5509	-122.7794 -122.9207
26-3067 26-1815 26-1894	EU2 P-1 COATER P-1 NG P-1	Boilers & Pre-heate 6.55 Asphalt Coater 6.05 NATURAL GAS 5.47	8	0.195 RP-GSF RP-GS RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 40 5 60 8	300 72 300	37 11160 40 4710 37 11160	45.5493	-122.7891 -122.719 -122.7001
26-3009 26-0100	EU-2 P-2 BLRS P-1	Coating Line 3 5.37 BLRS 4.98	7	RP-GS 0.148 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	40 5 60 8	72 300	40 4710 37 11160	45.5888	-122.6900 -122.717
34-2753 26-1865	FLARES P-1 EU-23 P-1	FLARES DIGESTER (4.4) Coil Furnaces 3.78	7 0.162	0.162 RP-FS 0.342 RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.4977	-122.949 -122.779
26-1869 26-2050	STEEL P-1 EU3 P-1	Steel Arc Furnaces 3.35 Boiler 6 and 7 3.17	7 0.566	0.266 RP-GS 0.566 STK-3	Default parameters for release Boiler 6 - EU3	40 5 31 3.5	72 347	40 47123.8 34 19627.	45.4991	-122.729 -122.685
26-2390 26-3067 34-2804	NG COMB P-1 EU3 P-1 BLRS P-2	NATURAL GAS CON 3.: Storage Tanks 1-2 3.0: NG BOILERS 2.76	3 0.1	0.1 RP-GS 0.082 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 40 5 60 8	300 72 300	37 11160 40 4710 37 11160	45.6061	-122.714 -122.789 -122.824
26-1815 26-2068	TK 18&19 P-1 3U-2 P-2	Asphalt Storage Ta 2.74 PCS 2.60	4	RP-FS 1.08 RP-GS	Default parameters for release Default parameters for release Default parameters for release	20 50 40 5	72 72	7 824667 40 4710	45.5493	-122.71 -122.71
26-1891 34-2813	PRODUCTION P-1 BLRS P-1	Production 2.5 BOILERS 1-5 2.45		1.33 RP-GS RP-GSF	Default parameters for release Default parameters for release	40 5 60 8	72 300	40 4710 37 11160		-122.783 -122.930
26-0100 26-1865	BLRS P-2 EU-21 P-1	BLRS 2.4 Heat Treat Process 2.3	4 0.071 2 0.464	0.071 RP-GSF 0.464 RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.6256	-122.717 -122.779
34-2638 34-0055 26-2777	NG COMB P-1 NG COMB P-1 BLRS/DRYER P-1	NATURAL GAS CON 2.14 NATURAL GAS CON 2.1 Boilers and Dryers 2.0	1 0.063	0.064 RP-GSF 0.063 RP-GSF 0.061 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 60 8	300 300 300	37 11160 37 11160 37 11160	45.5413	-122.817 -122.937 -122.702
26-2043 26-2068	NG COMB P-1 3U-10 P-1	NATURAL GAS CON 2.00 NG 2.01	4 0.184	0.184 RP-GSF 0.061 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8	300 300	37 11160 37 11160	45.568	-122.702 -122.74 -122.70
34-0004 26-1815	TUB GRIND P-1 NG COMB P-1	TUB GRINDER 1.8 Natural Gas Combs 1.66	8 0.23	0.23 RP-GSF 0.15 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.493	-122.9 -122.71
26-2025 34-2783	BOIL/FURN P-1 BO P-1	Boilers and furnace 1.63 NATURAL GAS BAK 1.6	6 0.048	0.049 RP-GSF 0.048 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.4831	-122.736 -122.787
26-1885 26-1814	BOILER P-1 BOILER P-1	NG BOILER 1.50 Boiler 1.50 ASPHALT COATER 1.51	6 0.047	RP-GSF 0.047 RP-GSF	Default parameters for release Default parameters for release	60 8	300 300	37 11160 37 11160	45.5473	-122.712 -122.70
26-2043 34-0186 34-2678	COATER P-1 GEN NG P-1	ASPHALT COATER 1.5: GENERATOR 1.5038982 NATURAL GAS CON 1.4:	2 1.5038982	0.042 RP-FS 4.654923 RP-GSF	Default parameters for release DEFAULT Default parameters for release	20 50 60 8 60 8	72 300 300	7 824667. 37 11160 37 11160	45.566	-122.74 -122.91 -123.081
26-2968 26-3224	OVENS P-1 CUB P-1	OVENS NATRUAL G 1.4: Boilers (2) 1.4:	3 0.179	0.179 RP-GSF 0.101 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.5818	-122.663 -122.721
26-0368 26-1894	NGC P-1 OVEN P-1	NATURAL GAS 1.37 Fiberglass Mat Curi 1.34	7 0.124 4	0.124 RP-GS RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 4710 40 4710	45.6242 45.5911	-122.7 -122.700
34-9507 34-2783	BLR 1-2 P-1 BLR P-1	BOILERS 1-2 1.34 SUPERIOR NG BOIL 1.25	5 0.037	0.336 RP-GSF 0.037 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.4831	-122.926 -122.787
26-3002 26-2068 34-2804	BOILERS P-1 3U-1 P-2 BLRS P-1	NATURAL GAS BOII	2 2.65	0.037 RP-GSF 2.65 STK-1 0.036 RP-GSF	Default parameters for release MU-1 Melt EAF stack Default parameters for release	60 8 55 7 60 8	300 80 300	37 11160 32 73890.2 37 11160	45.5373	-122.755 -122.702 -122.824
26-1869 26-1865	NG COMB P-1 Al P-1	Natural Gas Combi 1.2 Aggregate Insignifii 3	1 0.131	0.131 RP-GSF RP-FS	Default parameters for release Default parameters for release Default parameters for release	60 8 20 50	300 300 72	37 111589.3 7 824667.	45.5996	-122.729 -122.779
26-2050 26-2197	AI P-1 8-AGG P-1	Aggregate Insignifii :		1 RP-FS 1 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7 824667. 7 824667.	45.4991	-122.685 -122.715
26-2777 26-3009	AI P-1 AIE P-1	Aggregate Insignifii :	1 1 1 1	1 RP-FS RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7 824667. 7 824667.	45.5888	-122.702 -122.690
26-1869 34-2639 34-0004	MANG P-1 BLR TIPPER P-1	Manganese Arc Fu 0.936 BOILER 0.930594 TIPPER 0.862	4 0.02769625	0.968 RP-GS 0.02769625 0.284 RP-GSF	Default parameters for release DEFAULT	40 5 60 8 60 8	72 300 300	40 47123.8 37 11160 37 11160	45.567	-122.729 -122.860 -122.9
26-3310 26-2968	Landfill P-1 BOILER P-1	Landfill Gas Flares 0.848 BOILER 0.849	8 0.601	0.601 RP-GS 0.06 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	40 5 60 8	72 300	40 4710 37 11160	45.6142	-122.751i
26-3009 26-2197	EU-4 P-1 5-BO P-1	Boilers 0.836 Natural Gas Combs 0.738	6 0.06	0.06 RP-GSF 0.422 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.5888	-122.690 -122.715
34-0017 26-3009	NG COMB P-1 EU-2 P-3	Natrual Gas 0.634 Coating Line 3 0.614	4 0.044	RP-GSF 0.044 RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.5888	-122.932 -122.690
26-3048 26-3048	BLR P-1 TK HEATERS P-1 HTR-3 P-1	BOILER 0.574 COOK TANK HEATE 0.574 HEATER #3 0.521	4 0.632	0.356 RP-GSF 0.356 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8 60 8	300 300 300	37 11160 37 11160 37 11160	45.6135	-122.711: -122.711: -122.693
26-3021 34-9514 26-2043	HTR-3 P-1 NG P-1 SURFACING P-1	HEATER #3 0.523 NATURAL GAS CON 0.462 SURFACING 0.375	2	0.169 RP-GSF RP-GS 0.069 RP-FS	Default parameters for release Default parameters for release Default parameters for release	40 5 20 50	72 72	37 11160 40 4710 7 824667.	45.4256	-122.7594 -122.7594
34-0157 26-3021	EMGEN P-1 BLRS 1-2 P-1	EM GEN 1-16 0.312 BOILERS 0.298	2 0.055	0.055 RP-GSF 0.00886 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.5471	-122.9287
26-3021 26-2068	TO-01 P-1 3U-3 P-1	THERMAL OXIDIZE 0.289 MH/SR 0.254	4 0.094	0.00859 RP-GSF 0.094 RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.5374	-122.693i -122.70
34-2753 26-3067	NG COMB P-1 EUS P-1	NATURAL GAS CON 0.254 Storage Tanks 7-10 0.1 CREMATORY 0.18927662	2 0	0.03 RP-GSF 0 RP-GS	Default parameters for release Default parameters for release	60 8 40 5 60 8	300 72	37 11160 40 4710 37 11160	45.6061	-122.949 -122.789
34-0070 34-0083 26-2068	GEN 3U-1 P-3	CREMATORY 0.18927662 GENERATOR 0.17751825 MELT 0.17	5 0.05735205	0.0403328 0.05735205 0.000558 STK-1	DEFAULT DEFAULT MU-1 Melt EAF stack	60 8 60 8 55 7	300 300 80	37 11160 37 11160 32 73890.2	45.5227	-122.867 -122.990 -122.702
26-2068 34-9507	3U-1 P-4 BLR 3-5 P-1	MELT 0.13 BOILERS 3-5 0.157	7 0.000558	0.000558 STK-1 0.00468 RP-GSF	MU-1 Melt EAF stack Default parameters for release	55 7 60 8	80 300	32 73890.2 32 73890.2 37 11160	45.5373	-122.702 -122.702
26-2043 26-1889	HOR MIXER P-1 NG COMB P-1	HORIZONTAL MIXE 0.140 GAS COMBUSTION 0.103	1 0.00912	0.442 RP-FS 0.00912 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 824667. 40 4710	45.6248	-122.74 -122.785
34-0079 26-2043	CR ASPH TKS P-1	COFFEE ROASTER 0.0912566- ASPHALT TANKS 0.07	7 0.339	0.401636 0.339 RP-GS	DEFAULT Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.568	-122.898 -122.74
26-2043 34-2750 34-0235	FLUX TKS P-1 CR GENS 101-111 P-1	FLUX TANKS 0.073 COFFEE ROASTER 0.07449026 EMERGENCY GENE 0.073	6 0.03792	0.339 RP-GS 0.03792 RP-GSF	Default parameters for release DEFAULT Default parameters for release	40 5 60 8 60 8	72 300 300	40 4710 37 11160 37 11160	45.5556	-122.74 -122.91 -122.972
26-2043 26-2832	VERT MIXER P-1 PS-2 P-1	VERTICAL MIXER 0.069 TURBINE 0.069	9 0.177	0.177 RP-FS 0.13 STK-1	Default parameters for release	20 50 30 2	72 350	7 824667. 25 4712.3	45.568	-122.74 -122.681
34-0142 26-3067	GEN EU4 P-1	GENERATOR 0.06110805 Storage Tanks 3-6 0.00		0.0197426 0 RP-GS	DEFAULT Default parameters for release	60 8 40 5	300 72	37 11160 40 4710		-122.991 -122.789
26-2043 26-0285	COOLING P-1 ENGS P-1	COOLING SECTION 0.059 DIESEL ENGINES 0.058	8 0.00349	0.027 RP-FS 0.00349 RP-GSF	Default parameters for release Default parameters for release	20 50 60 8	72 300	7 824667. 37 11160	45.5153	-122.74 -122.672
34-0235 26-3002 34-0096	GEN 1H P-1 GEN P-1 GEN	DIESEL GENERATO 0.052 GENERATOR 0.04652603		0.017 RP-GSF	Default parameters for release Default parameters for release DEFAULT	60 8 60 8	300 300 300	37 11160 37 11160 37 11160	45.5775	
34-2813 26-1815	ENG 1-3 P-1 MLA APPLIC P-1	ENGINES 1-3 0.04 MLA Applicator 0.035	4	RP-GSF RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710	45.5465	-122.930 -122.71
26-1815 26-2043	MLA USE TK P-1 LAM APP P-1	MLA Use Tank 0.039 LAMINANT APPLIC 0.030	6 2.34	RP-FS 2.34 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7 824667. 7 824667.	45.568	-122.71 -122.74
34-2753 34-0241	BLRS P-1 GEN1-3 P-1	BOILERS DIGESER (0.03) GENERATORS 1-3 0.03:	1 0.012	0.021 RP-GSF 0.012 RP-GSF	Default parameters for release Default parameters for release	60 8	300 300	37 11160 37 11160	45.557	-122.949 -122.922
34-9514 26-1815 26-1815	PO P-1 LAM SEAL USE P-1 SEAL MIX TK P-1	PROCESS OPERATII 0.03 Laminate Sealant U 0.02 Sealant MixTank 1 0.02	7	RP-GS RP-FS RP-GS	Default parameters for release Default parameters for release Default parameters for release	40 5 20 50 40 5	72 72 72	40 4710 7 824667 40 4710	45.5493	-122.759 -122.71 -122.71
26-1815 26-1815 34-2804	SEAL USE TK P-1 ENG B59 P-1	Sealant Mixl ank 1 0.02: Sealant Use Tank 0.02: ENGINE BUILDING 0.024	7	RP-GS RP-FS 0.033 RP-GSF	Default parameters for release Default parameters for release	40 5 20 50 60 8	72 72 300	7 824667. 37 11160	45.5493	-122.71 -122.71 -122.824
34-0241 26-1815	GENS-10 P-1 TK 21 P-1	GENERATORS 5-10 0.022 MLA Bulk Tank 21 0.022	2 0.01	0.01 RP-GSF RP-FS	Default parameters for release Default parameters for release	60 8 20 50	300 72	37 11160 7 824667.	45.557 45.5493	-122.922 -122.71
26-1815 26-3067	TK 20 P-1 EU7 P-1	Bulk Sealant Tank 2 0.02 Truck Loading Rack 0.02	2 0.17	0.17 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 824667. 40 4710	45.6061	-122.71 -122.789
26-2043 26-0100 26-2050	LAM RUN TK P-1 FLARES P-1 EU1 P-1	DIGESTER GAS FLA 0.018 Boiler 2 0.019	6 0.000201	0.00822 RP-FS 0.000201 RP-GS 0.000475 STK-1	Default parameters for release Default parameters for release Boiler 2 - EU 1 Exhaust duct is n	20 50 40 5 214 12	72 72 385	7 824667. 40 4710 22 149288.4	45.5965	-122.74 -122.717 -122.685
26-2050 26-1815 26-1815	LAM SEAL APP P-1 SEAL EXTR P-1	Laminate Sealant A 0.019 Sealant Extruder 0.019	5	0.000475 STK-1 RP-GS 2.78 RP-GS	Default parameters for release Default parameters for release	214 12 40 5 40 5	72 72	40 4710 40 4710	45.5493	-122.685: -122.71! -122.71!
26-2043 34-2769	SEAL RUN TK P-1 C	SEALANT RUN TAN 0.015 Concrete Batch Pla 0.0142241	5 0.00991 1 0.56792	0.00991 RP-FS 0.1675364	Default parameters for release DEFAULT	20 50 60 8	72 300	7 824667. 37 11160	45.568 45.5375	-122.74 -122.896
34-2804 26-0100	ENG B57 P-1 GENS P-1	ENGINE BUILDING 0.014 GENS 0.012	2 0.00145	0.02 RP-GSF 0.00145 RP-GSF	Default parameters for release Default parameters for release	60 8	300 300	37 11160 37 11160	45.5965	-122.824 -122.717
26-3002 26-2068 34-0241	NG COMBUSTIO P-1 3U-2 P-3 GEN4 P-1	OTHER BOILERS AN 0.012 PCS 0.01 GENERATOR 4 0.01	1 0.000725	0.00125 RP-GSF 0.000725 RP-GS 0.00691 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 40 5 60 8	300 72 300	37 11160 40 4710 37 11160	45.5374	-122.755 -122.70 -122.922
34-0241 34-2804 34-0222	ENG B60 P-1 ENGS P-1	ENGINE BUILDING 0.00935 ENGS 0.005	5 0.000534	0.00691 RP-GSF 0.000534 RP-GSF 0.002 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 60 8	300 300 300	37 11160 37 11160 37 11160	45.5021	-122.922 -122.824 -122.927
34-9507 26-2050	EG2 P-2 EU3 P-2	EMERGENCY GEN : 0.00889 Boiler 6 and 7 0.00873	9 0.00401	RP-GSF 0.00279 STK-3	Default parameters for release Boiler 6 - EU3	60 8 31 3.5	300 347	37 11160 34 19627.	45.5572 45.4991	-122.926 -122.685
26-2043 34-9507	SEAL APP P-1 FWP P-2	SEALANT APPLICAT 0.00705 FIRE WATER PUMP 0.0056	5 1.09 6	1.09 RP-FS RP-GSF	Default parameters for release Default parameters for release	20 50 60 8	72 300	7 824667. 37 11160	45.568 45.5572	-122.74 -122.926
26-2050 34-2813	EU2 P-1 ENG 4 P-1	Boiler 5 0.0054 ENGINE 4 0.0048	7	0.034 STK-2 RP-GSF	Boiler 5 - EU2 Default parameters for release	31.3 5 60 8	539 300	20 23561.9 37 11160	45.5465	-122.685 -122.930
34-9507 34-0080	EG1 P-2 GEN 3U-2 P-5		4 0.001259496	RP-GSF 0.0012595 0.02 RP-GS	Default parameters for release DEFAULT Default parameters for release	60 8 60 8	300 300	37 11160 37 11160	45.5413	-122.926 -122.937
26-2068 26-2068 26-2050	3U-2 P-5 3U-2 P-4 EU2 P-2	PCS 0.0034 PCS 0.00339 Boiler 5 0.0028	9 0.012	0.02 RP-GS 0.012 RP-GS 0.000904 STK-2	Default parameters for release Default parameters for release Boiler 5 - EU2	40 5 40 5 31.3 5	72 72 539	40 4710 40 4710 20 23561.9	45.5374	-122.70 -122.70 -122.685
26-2068 34-0157	3U-1 P-5 LSGEN P-1	MELT 0.00274 LS GEN 1-3 0.002	4 0.00071	0.00071 STK-1 0.0012 RP-GSF	MU-1 Melt EAF stack Default parameters for release	55 7 60 8	80 300	32 73890.2 37 11160	45.5373	-122.702 -122.928
26-0100 26-2043	GENS P-2 SEALTK P-1	GENS 0.00153 SEALANT TANK 0.000824	3 0.000499 4 0.00362	0.000499 RP-GSF 0.00362 RP-FS	Default parameters for release Default parameters for release	60 8 20 50	300 72	37 11160 7 824667.	45.5965 45.568	-122.717 -122.74
26-2968 26-3021 26-1814	P-1 PESCO P-1 POULER P.3	REFINERY 0.00003	3	RP-GSF RP-GS	Default parameters for release Default parameters for release	60 8 40 5	300 72	37 11160 40 4710 37 11160	45.6062	-122.663 -122.693
	BOILER P-2	Boiler (Asphalt Pouring (0 0	0 RP-GSF RP-FS	Default parameters for release Default parameters for release	60 8 20 50	300 72	37 11160 7 824667.		-122.709 -122.700
26-1894 26-2025	AP P-1 BOIL/FURN P-2		0 0	RP-GSF	Default parameters for release	60 8	300	37 11160		-122.7369

26-2028 26-2028 26-2043	BOILER P-1 BOILER P-2 OIL COMB P-1	Boilers	0 0 RP-GSF 0 0 RP-GSF 0 0 RP-GSF	Default parameters for release Default parameters for release Default parameters for release	60 8 60 8 60 8	300 300 300	37 37 37	111600 111600 111600	45.5625 45.5625 45.568	-122.74 -122.74 -122.7
26-2050 26-2777	EU1 P-2 BLRS/DRYER P-2	Boiler 2 0 Boilers and Dryers 0	0 0 STK-1 0 0 RP-GSF	Boiler 2 - EU 1 Exhaust duct is n Default parameters for release	214 12 60 8	385 300	22 37	149288.45 111600	45.4991 45.6119	-122.68 -122.70
26-2968 26-3021	BOILER P-2 HTR-4 P-1	BOILER 0 HEATER #4 0	0 RP-GSF 0 0 RP-GSF	Default parameters for release Default parameters for release	60 8 60 8	300 300	37 37	111600 111600	45.5818 45.6062	-122.66 -122.69
26-3021 26-3048	OPS-1 P-1 ROCKET P-1	OIL POLISHING SYS 0 ROCKET SYSTEM 0	0 0 RP-GS 0 0 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.6062 45.6135	-122.69 -122.71
6-3048 6-3067	ROCKET P-2 EU1 P-1	ROCKET SYSTEM 0 Asphalt Convertor: 0	0 0 RP-GS 0 0 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.6135 45.6061	-122.71 -122.78
4-0238 4-9514	DID NOT RUN PROPANE P-1	0 PROPANE COMBUS 0	0 0 RP-GS	Default parameters for release	40 5	72	40	47100	45.4256	-122.79
6-0026 6-0146	PRODUCTIN P-2 611.BF1 P-1	PAINT PRODUCTION 0.1 Railcar Loading 0.004		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47100	45.6261 45.5512	-122.7 -122.6
6-0146 6-0146	611.BF2 P-1 611.BF3 P-1	Reclaim Airlift Dust Collector 0.007 Pipe Conveyor Receiving 0.0	81 0.00221 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5512 45.5512	-122.6 -122.6
6-0146 6-0146	611.BF5 P-1 611.BF6 P-1	Tank Reclaim To Airlift Dust Coller 0.001 East Rail Loading Spout Dust Colle 0.001	73 0.000476 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5512 45.5512	-122.6 -122.6
6-0146	614.BF1 P-1	Ship Unloading 0.2	11 0.06 RP-GS	Default parameters for release	40 5 40 5	72	40 40	47100	45.5512 45.5512	-122.6 -122.6
6-0146 6-0146	614.BF3-5 P-1	North Terminal Storage Tanks 0.0	14 0.00381 RP-GS	Default parameters for release Default parameters for release	40 5	72 72	40	47100 47100	45.5512	-122.6
6-0146 6-0146	614.BF6 P-1 621.BF1 P-1	Unload Airlift Airslide Dust Collect 0.003 Railcar Unloading 0.0	49 0.014 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5512 45.5512	-122.6 -122.6
6-0146 6-0146	621.BF2 P-1 621.BF3 P-1	South Terminal Storage Silos 0.1 Truck Load-Out 0.2	28 0.064 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5512 45.5512	-122.6 -122.6
6-0146 6-0146	621.BF4 P-1 FU1 P-1	Pipe Conveyor Discharge 0.0 FUGITIVE FROM SHIP 0.1		Default parameters for release Default parameters for release	40 5 20 50	72 72	40 7	47100 824667.9	45.5512 45.5512	-122.0 -122.0
6-0242 6-0242	A1 P-1 A5 P-1	ASPIRATION 0. DRYER 0.1	53 0.032 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.5841 45.5841	-122.0 -122.0
6-0242 6-0368	A6 P-1 DRYERS P-1	DUST 0.2 DRYERS 0.2	21 0.013 RP-FS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7	824667.9 47100	45.5841 45.6242	-122.0
6-0368 6-1815	DRYERS P-2	DRYERS 1.	83 1.37 RP-GS	Default parameters for release	40 5	72	40	47100	45.6242	-12 -122
6-1815	COOL SEC P-1 DUST SYS P-1	DUST COLLECTOR SYSTEM 0.		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5493 45.5493	-122
6-1815 6-1865	FBS P-1 EU-1 P-1	Material Handling (23 0.23 RP-GS 0.1 0.1 RP-FS	Default parameters for release Default parameters for release	40 5 20 50	72 72	40 7	47100 824667.9	45.5493 45.6256	-122 -122.7
6-1865 6-1865	EU-11 P-1 EU-12 P-1		19 5.19 RP-FS 1.9 21.9 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.6256 45.6256	-122.7 -122.7
6-1865 6-1865	EU-12 P-2 EU-12 P-3		1.5 4.5 RP-GS 0 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40	47100 47100	45.6256 45.6256	-122.7
6-1865 6-1865	EU-14 P-1 EU-15 P-1		8.7 8.30958904 RP-FS 79 0.7185 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.6256 45.6256	-122.7 -122.7
6-1865 6-1865	EU-16 P-1 EU-2 P-1	Coating Operations Storage Piles 0.8	1 1 RP-FS	Default parameters for release Default parameters for release	20 50	72 72	7	824667.9 824667.9	45.6256 45.6256	-122.7
6-1865 6-1865	EU-2 P-1 EU-24 P-1 EU-25 P-1	Abrasive Blasting	0 RP-FS	Default parameters for release	20 50	72 72 72	7 40	824667.9 824667.9 47100	45.6256 45.6256	-122. -122.
6-1865	EU-27 P-1	OD Coater Pipe Mill Building Fugitives 0.1	64 0.164 RP-FS	Default parameters for release Default parameters for release	20 50	72	7	824667.9	45.6256	-122.
6-1865 6-1865	EU-3 P-1 EU-8 P-1	Surface processing 0.0		Default parameters for release Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.6256 45.6256	-122.1 -122.1
6-1869 6-1869	BLAST P-1 BLAST P-2	BLASTING 0.00 BLASTING 0.005		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.7 -122.7
6-1869 6-1869	BLAST P-3 BURN/ARC P-1	BLASTING 0.00 BURN/ARC 0.0	35 0.0035 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.
6-1869 6-1869	BURN/ARC P-1 BURN/ARC P-2 BURN/WELD P-1	BURN/ARC 0.00 MAIN FOUNDRY BURN/WELD, CC 0.0	37 0.0037 RP-GS	Default parameters for release Default parameters for release Default parameters for release	40 5 40 5	72 72 72	40 40	47123.88 47123.88	45.5996 45.5996 45.5996	-122. -122.
6-1869	PATTERN P-1	Pattern Shop, CD#18* 0.000009	18 0.00000918 RP-GS	Default parameters for release	40 5	72	40	47123.88	45.5996	-122.
6-1869 6-1869	ROOFVENTS P-1 ROOFVENTS P-2	Fugitives 18	54 4.54 RP-FS 3.8 18.8 RP-FS	Default parameters for release Default parameters for release	20 50	72 72	7	824667.9 824667.9	45.5996 45.5996	-122.
6-1869 6-1869	ROTOBLAST P-1 SANDCORE P-1	CORE ROOM, CD#9* 0.0		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.7 -122.7
6-1869 6-1869	SANDMAIN P-1 SANDMAIN P-2	Sand preparation 0.1 Sand preparation 0.2		Default parameters for release Default parameters for release	40 5 40 5	72 72	40	47123.88 47123.88	45.5996 45.5996	-122.7
6-1869 6-1869	SANDMAIN P-3 SANDMILL2 P-1	Sand preparation 0.0 MILL 2 GROUP 8, CD#6* 0.004	54 0.054 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.1 -122.1
6-1869 6-1869	SANDMILL4 P-1 SANDRECL P-1	MILL 4 GROUP 3&6, CD#8* 0.0 Sand reclamation 0.1	59 0.059 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.7
6-1869	SANDRECL P-2	Sand reclamation 0.0	67 0.067 RP-GS	Default parameters for release	40 5	72	40	47123.88	45.5996	-122.7
6-1869 6-1869	SANDRECL P-3 SANDRECL P-4	Sand reclamation 0.0 Sand reclamation	0 0 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47123.88 47123.88	45.5996 45.5996	-122.7 -122.7
6-1885 6-1889	GALVANIZING P-1 UREA HNDLG P-1	GALVANIZING KETTLES 0.5 UREA HANDLING 0.0		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5394 45.6248	-122.7 -122.7
26-1891 26-1891	PRODUCTION P-2 RECEIVED P-1	Production 1. Receiving 1:		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.6229 45.6229	-122.7 -122.7
6-1891 6-2003	RECEIVED P-2 CLEANING P-1	Receiving 0.0 GRAIN CLEANING 0.0		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.6229 45.5362	-122.7 -122.6
6-2003 6-2003	HEAD HOUSE P-1 HEAD HOUSE P-2	HEAD HOUSE 0.1 HEAD HOUSE 0.1	35 0.023 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.5362 45.5362	-122.6 -122.6
26-2003	LOADOUT P-1	LOADOUT 0.	47 0.086 RP-FS	Default parameters for release	20 50	72 72	7	824667.9	45.5362	-122.6
26-2003 26-2003	RECRC P-1	BARGE RECEIVING 0.1 RAIL CAR RECEIVING 0.001	63 0.00027 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72	7	824667.9 824667.9	45.5362 45.5362	-122.6 -122.6
26-2003 26-2003	REC TK P-1 SILOS P-1	TRUCK RECEIVING 0.002 CLEANING AREA TRUCK LOADOU 0.4	97 0.033 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.5362 45.5362	-122.6 -122.6
26-2043 26-2043	BACKING APP P-1 DRY LOOPER P-1	BACKING APPLICATION 0.0000 MAT DRY LOOPER 0.007	79 0.00779 RP-FS	Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.568 45.568	-122 -122
26-2043 26-2043	FILLER UNLD P-1 GRAN BLEND P-1	FILLER UNLOADING 0.0 GRANULE BLENDING 0.0		Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.568 45.568	-122 -122
26-2043 26-2043	GRAN DUMP P-1 GRAN XFR P-1	GRANULE DUMP 0.007 GRANULE TRANSFER SYSTEM 0.0		Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.568 45.568	-122 -122
26-2043	HEADLAP XFR P-1	HEADLAP TRANSFER 0.002	61 0.00261 RP-FS	Default parameters for release Default parameters for release	20 50	72	7	824667.9	45.568 45.568	-122
6-2043 6-2043	SAND UNLD P-1 SWECO TO TKS P-1	SAND UNLOADING 0.0 SWECO TO TANKS 0.0	28 0.028 RP-GS	Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.568	-122 -122
6-2068 6-2068	3U-4 P-1 3U-5 P-1	S/SB 0.1 C/G 0.0000		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5374 45.5374	-122 -122
6-2068 6-2068	3U-5 P-2 3U-6 P-1	C/G 0.000001 HOTWORK 0.006		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5374 45.5374	-122 -122
6-2068 6-2068	3U-6 P-4 3U-7 P-2	HOTWORK 0.0 MOLD/CORE 0.0		Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5374 45.5374	-122 -122
6-2068 6-2197	3U-9 P-1 1-AC P-1	COATING 0.3 All Coating, Particulate 1.		Default parameters for release Default parameters for release	40 5 20 50	72 72	40	47100 824667.9	45.5374 45.5728	-122
6-2197	6- CUT P-1	Metal Cutting PRODUCTION 0.2	0 0 RP-GS	Default parameters for release	40 5	72	40 40	47100	45.5728	-122.
6-2390 6-2492	3-CL P-1	Pipe Coating and Lining 1.	93 1.93 RP-GS	Default parameters for release HEAF unit, DMSTR 2-4, CYCL1-2	40 5 40 5	72 72	40 40 40	47100 47100	45.6157 45.609	-122.
6-2492 6-2492	3-CL P-2 3-CL P-3	Pipe Coating and Lining Pipe Coating and Lining	0 0 RP-GS 0 0 RP-GS	HEAF unit, DMSTR 2-4, CYCL1-2 HEAF unit, DMSTR 2-4, CYCL1-2	40 5 40 5	72 72	40	47100 47100	45.609 45.609	-122.1 -122.1
6-2492 6-2492	6-CBP P-2 8-SBL P-1	Concrete Batch Plant 0.001 Interior and Exterior Shot Blast 0.0	42 0.00418 RP-GS	HEAF unit, DMSTR 2-4, CYCL1-2 HEAF unit, DMSTR 2-4, CYCL1-2	40 5 40 5	72 72	40 40	47100 47100	45.609 45.609	-122.
6-2492 6-2492	9-GBL P-1 Al P-1	Sand (Grit) Blast 0. Aggregate Insignificant Activities	1 1 RP-FS	HEAF unit, DMSTR 2-4, CYCL1-2 Default parameters for release	40 5 20 50	72 72	40 7	47100 824667.9	45.609 45.609	-122.1 -122.1
6-2777 6-2777	EXTR P-1 TRIMS P-1	Extrusion process 1.	62 1.62 RP-FS 95 3.95 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7	824667.9 47100	45.6119 45.6119	-122.
6-2807 6-2807	BARGE UNL P-1	BARGE UNLOAD	0 0 RP-FS	Default parameters for release	20 50	72	7	824667.9	45.6358	-122
6-2807	RAIL UNL P-1		0 0 RP-FS	Default parameters for release Default parameters for release	20 50	72 72	7	824667.9 824667.9	45.6358 45.6358	-122
6-2807 6-2807	RAIL UNL P-2 SHIP LOAD P-1		0 0 RP-FS	Default parameters for release Default parameters for release	20 50	72 72	7	824667.9 824667.9	45.6358 45.6358	-122 -122
6-2807 6-2807	SHIP LOAD P-2 TRANSFER LGS P-1	SHIP LOAD 0.0 TRANSFER LEGS 0.	48 0.08 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.6358 45.6358	-122 -122
5-2807 5-2807	TRANSFER PTS P-1 TRUCK UNL P-1		0 0 RP-FS	Default parameters for release Default parameters for release	40 5 20 50	72 72	40 7	47100 824667.9	45.6358 45.6358	-122 -122
5-2807 5-2909	TRUCK UNL P-2 LOADING P-1	TRUCK UNLOAD 0.0002 loading over 16 transfer points 1.	45 0.00004 RP-FS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7	824667.9 47100	45.6358 45.6017	-122
5-2944 5-2944	2-BLB123 P-1 2-BLB123 P-2	Shot and grit blasting 0.0 Shot and grit blasting 0.1	45 0.045 RP-GS	For GS-3, there are actually mu For GS-3, there are actually mu	40 5 40 5	72 72	40 40	47100 47100	45.5538 45.5538	-122
5-2944 5-2944 5-2944	2-BLB123 P-2 2-BLB45 P-1 2-BLF P-1	Shot and grit blasting 0.0	39 0.039 RP-GS	For GS-3, there are actually mu	40 5	72 72 72	40	47100	45.5538 45.5538 45.5538	-122.
6-2944	3-TC P-1	Plasma/Oxy-fuel metal cutting de 0.007	86 0.00786 RP-GS	Default parameters for release For GS-3, there are actually mu	20 50 40 5	72	40	824667.9 47100	45.5538	-122. -122.
6-2944 6-2944	3-TC P-2 3-TC P-3	Plasma/Oxy-fuel metal cutting de 0.1 Plasma/Oxy-fuel metal cutting de 0.002	12 0.00212 RP-GS	For GS-3, there are actually mu For GS-3, there are actually mu	40 5 40 5	72 72	40 40	47100 47100	45.5538 45.5538	-122.1 -122.1
6-2944 6-2944	5-WLD P-1 8-OSPRY P-1	Overspray particulate, controlled 0.6		For GS-3, there are actually mu For GS-3, there are actually mu	40 5 40 5	72 72	40 40	47100 47100	45.5538 45.5538	-122.
6-2944 6-2944	8-OSPRYM P-1 AGG P-1	Overspray particulate, uncontroll 26 Aggregate insignificant emissions	5.1 26.1 RP-GS 1 1 RP-FS	For GS-3, there are actually mu Default parameters for release	40 5 20 50	72 72	40 7	47100 824667.9	45.5538 45.5538	-122.1 -122.1
6-3067 6-3071	EU8 P-1 TREAT P-1	Pouring Shed TREATED PRODUCT 0.	RP-GS 46 0.46 RP-FS	Default parameters for release Default parameters for release	40 5 20 50	72 72	40	47100 824667.9	45.6061 45.6346	-122
6-3071	UNTREAT P-1	UNTREATED PRODUCT	RP-FS	Default parameters for release	20 50	72	7	824667.9	45.6346	-122
6-3224 6-3224	SBI P-1 SBO P-1		RP-GS 67 RP-FS	Default parameters for release Default parameters for release	40 5 20 50	72 72	7	47100 824667.9	45.5662 45.5662	-122. -122.
6-3224 6-3272	WLD P-1 DRYER P-1	Welding Operations 0.0009 ROTARY DRYER 9.	44 5.66 RP-GS	Default parameters for release Default parameters for release	40 5 40 5	72 72	40 40	47100 47100	45.5662 45.5402	-122. -122.
6-9818 6-9818	CAR TIRE P-1 TRUCK TIRE P-1	CAR TIRES 0.0 TRUCK TIRES 0.0		Default parameters for release Default parameters for release	20 50 20 50	72 72	7	824667.9 824667.9	45.6133 45.6133	-122 -122
4-0004 4-0004	MH P-1 MR P-1	MATERIAL HANDLING 0.7 MATERIAL RECYCLING 0.0	29 0.146 RP-FS	Default parameters for release Default parameters for release	20 50	72 72	7	824667.9 824667.9	45.493 45.493	-12 -12
4-0004	PILES P-1	SOIL PILES 0.3	15 0.047 RP-FS	Default parameters for release	20 50	72	7	824667.9	45.493	-12
4-0004 4-0007	UNPAVED ROAD P-1 BH P-1	UNPAVED ROADS 2. BAG HOUSE 4.	48 4.48 RP-GS	Default parameters for release Default parameters for release	20 50 40 5	72 72	7 40	824667.9 47100	45.493 45.4171	-12 -122.
4-2021	CRUSH P-1 CLEANING	ROCK CRUSHER 12 SEED CLEANING 0.00603	2.9 0.776 RP-FS 25 0.0060325	Default parameters for release	20 50	72	7	824667.9	45.4566	-122

13.2.1 Paved Road 13.2.5. Wind Erosion

13.2.4 Aggregate Handling & Storage Piles

34-2756	EU-02	P-1	Woodwaste Loadout	0.867	0.867 RP-GS	Default parameters for release	60	8	300	37	111600	45.5247	-123.0809
34-2756	IA	P-1	Insignificant Activities	1	1 RP-FS	Default parameters for release	60	8	300	37	111600	45.5247	-123.0809
34-2783	SILO	P-1	FLOUR SILO	0.494	0.494 RP-FS	Default parameters for release	20	50	72	7	824667.9	45.4831	-122.7874
34-9507	EG1	P-1	EMERGENCY GEN 1	0.00218	0.00218 RP-GSF	Default parameters for release	60	8	300	37	111600	45.5572	-122.9262
34-9507	EG2	P-1	EMERGENCY GEN 2	0.00426	0.00426 RP-GSF	Default parameters for release	60	8	300	37	111600	45.5572	-122.9262



Appendix D-Attachments Pg 78

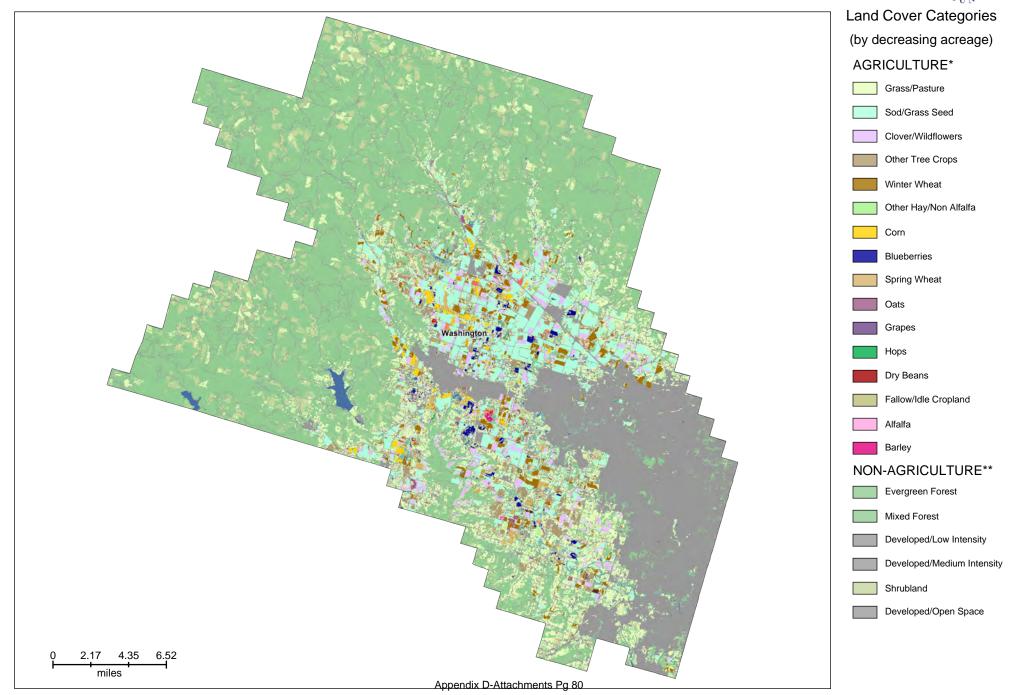
Attachment D Regional Soils and Vegetation Data





CDL2022 CDL, Washington County, Oregon





Washington County Commercial Crop Data

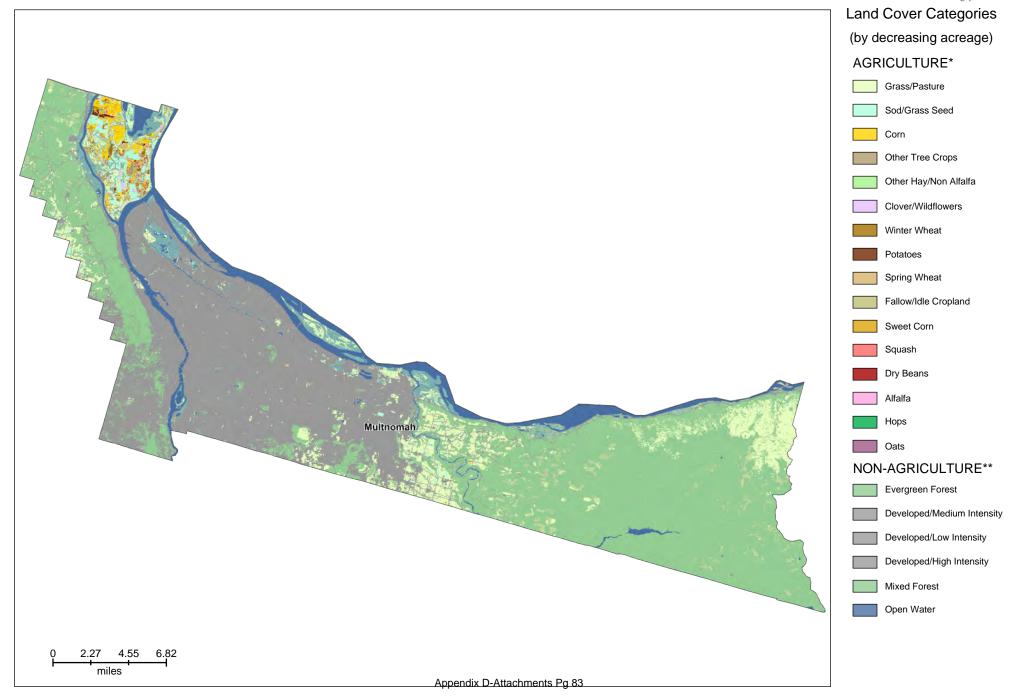
wasnington	County Commercial Crop Data		
Value	Category	Count	Acreage
1	Corn	49554	11020.5
4	Sorghum	297	66.1
6	Sunflowers	10	2.2
12	Sweet Corn	4528	1007
14	Mint	1801	400.5
21	Barley	2134	474.6
23	Spring Wheat	19457	4327.1
24	Winter Wheat	60858	13534.5
27	Rye	14	3.1
28	Oats	5501	1223.4
31	Canola	102	22.7
34	Rape Seed	98	21.8
35	Mustard	5	1.1
36	Alfalfa	6575	1462.2
37	Other Hay/Non Alfalfa	70294	15633
39	Buckwheat	26	5.8
41	Sugarbeets	1603	356.5
42	Dry Beans	11027	2452.3
43	Potatoes	2308	513.3
44	Other Crops	3300	733.9
47	Misc Vegs & Fruits	103	22.9
49	Onions	605	134.5
50	Cucumbers	274	60.9
53	Peas	1521	338.3
55	Caneberries	2721	605.1
56	Hops	29541	6569.8
57	Herbs	833	185.3
58	Clover/Wildflowers	77847	17312.8
59	Sod/Grass Seed	512642	114008.8
61	Fallow/Idle Cropland	6398	1422.9
66	Cherries	3104	690.3
67	Peaches	115	25.6
68	Apples	80	17.8
69	Grapes	10894	2422.8
70	Christmas Trees	8359	1859
71	Other Tree Crops	248848	55342.5
76	Walnuts	1603	356.5
77	Pears	129	28.7
111	Open Water	234665	52188.2
121	Developed/Open Space	592579	131786.4
122	Developed/Low Intensity	730090	162368.1
123	Developed/Medium Intensity	607654	135139
124	Developed/High Intensity	242747	53985.6
131	Barren	6411	1425.8
141	Deciduous Forest	142064	31594.3

142	Evergreen Forest	3013886	670272.1
143	Mixed Forest	850605	189170
152	Shrubland	445984	99184.5
176	Grass/Pasture	1562063	347394.4
190	Woody Wetlands	165824	36878.4
195	Herbaceous Wetlands	169802	37763.1
205	Triticale	724	161
206	Carrots	5	1.1
208	Garlic	1167	259.5
214	Broccoli	829	184.4
219	Greens	931	207
220	Plums	188	41.8
221	Strawberries	1990	442.6
222	Squash	5533	1230.5
224	Vetch	1388	308.7
227	Lettuce	5	1.1
228	Dbl Crop Triticale/Corn	49	10.9
229	Pumpkins	1272	282.9
242	Blueberries	18108	4027.1
243	Cabbage	413	91.8
244	Cauliflower	3023	672.3
246	Radishes	4098	911.4
247	Turnips	903	200.8
250	Cranberries	1	0.2



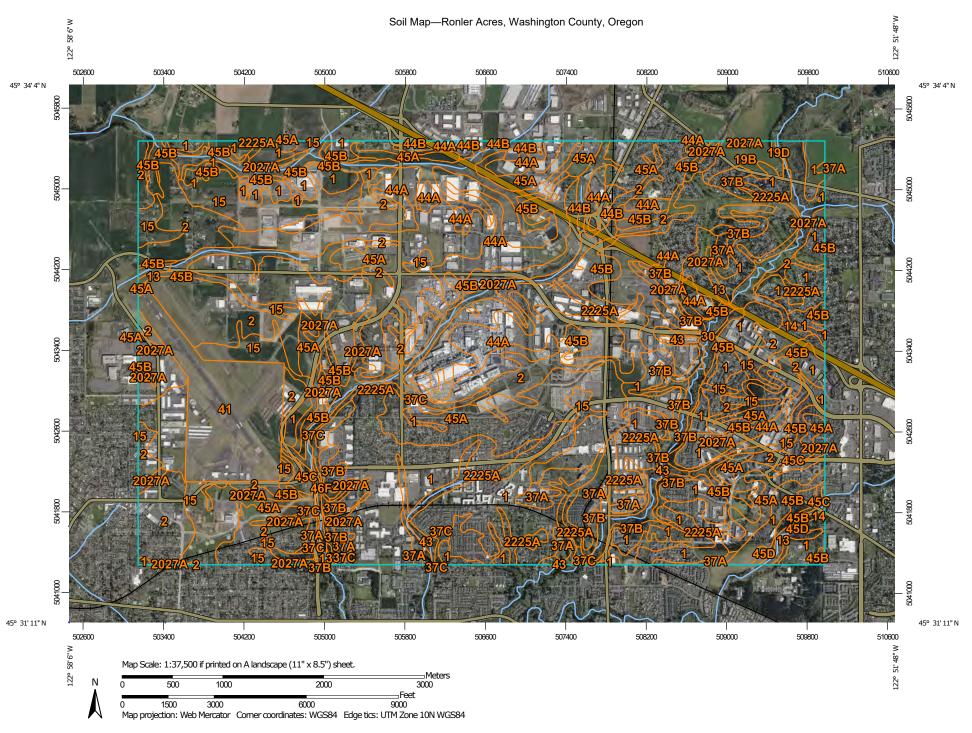
CDL2022 CDL, Multnomah County, Oregon





Multnoma	h County Commercial Crop Data		
Value	Category	Count	Acreage
1	Corn	9875	2196.1
4	Sorghum	16	3.6
12	Sweet Corn	781	173.7
14	Mint	131	29.1
21	Barley	83	18.5
23	Spring Wheat	1157	257.3
24	Winter Wheat	1641	364.9
28	Oats	242	53.8
34	Rape Seed	5	1.1
36	Alfalfa	446	99.2
37	Other Hay/Non Alfalfa	2034	452.4
39	Buckwheat	4	0.9
41	Sugarbeets	90	20
42	Dry Beans	674	149.9
43	Potatoes	1299	288.9
44	Other Crops	224	49.8
47	Misc Vegs & Fruits	5	1.1
49	Onions	2	0.4
50	Cucumbers	94	20.9
53	Peas	159	35.4
56	Hops	374	83.2
57	Herbs	104	23.1
58	Clover/Wildflowers	2001	445
59	Sod/Grass Seed	13369	2973.2
61	Fallow/Idle Cropland	943	209.7
66	Cherries	79	17.6
67	Peaches	10	2.2
68	Apples	2	0.4
69	Grapes	196	43.6
70	Christmas Trees	57	12.7
71	Other Tree Crops	4376	973.2
76	Walnuts	15	3.3
77	Pears	14	3.1
111	Open Water	87600	19481.8
121	Developed/Open Space	57737	12840.4
122	Developed/Low Intensity	125231	27850.7
123	Developed/Medium Intensity	175992	39139.7
124	Developed/High Intensity	94747	21071.2
131	Barren	940	209.1
141	Deciduous Forest	13630	3031.2
142	Evergreen Forest	459848	102267.7
143	Mixed Forest	89109	19817.4
152	Shrubland	28677	6377.6
176	Grass/Pasture	113900	25330.8
190	Woody Wetlands	18360	4083.2
195	Herbaceous Wetlands	31615	7031
205	Triticale	7	1.6
206	Carrots	5	1.1
208	Garlic	22	4.9
214	Broccoli	80	17.8
219	Greens	15	3.3
220	Plums	1	0.2
221	Strawberries	148	32.9
222	Squash	711	158.1
224	Vetch	60	13.3
228	Dbl Crop Triticale/Corn	3	0.7

Pumpkins	101	22.5
Blueberries	149	33.1
Cabbage	105	23.4
Cauliflower	122	27.1
Radishes	151	33.6
Turnips	71	15.8
	Blueberries Cabbage Cauliflower Radishes	Blueberries 149 Cabbage 105 Cauliflower 122 Radishes 151



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

 \boxtimes Borrow Pit

36 Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

The soil surveys that comprise your AOI were mapped at Spoil Area 1:20.000. Stony Spot

> Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

MAP INFORMATION

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Washington County, Oregon Survey Area Data: Version 22, Sep 14, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Apr 16, 2021—Apr 18, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads

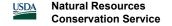


Local Roads

Background

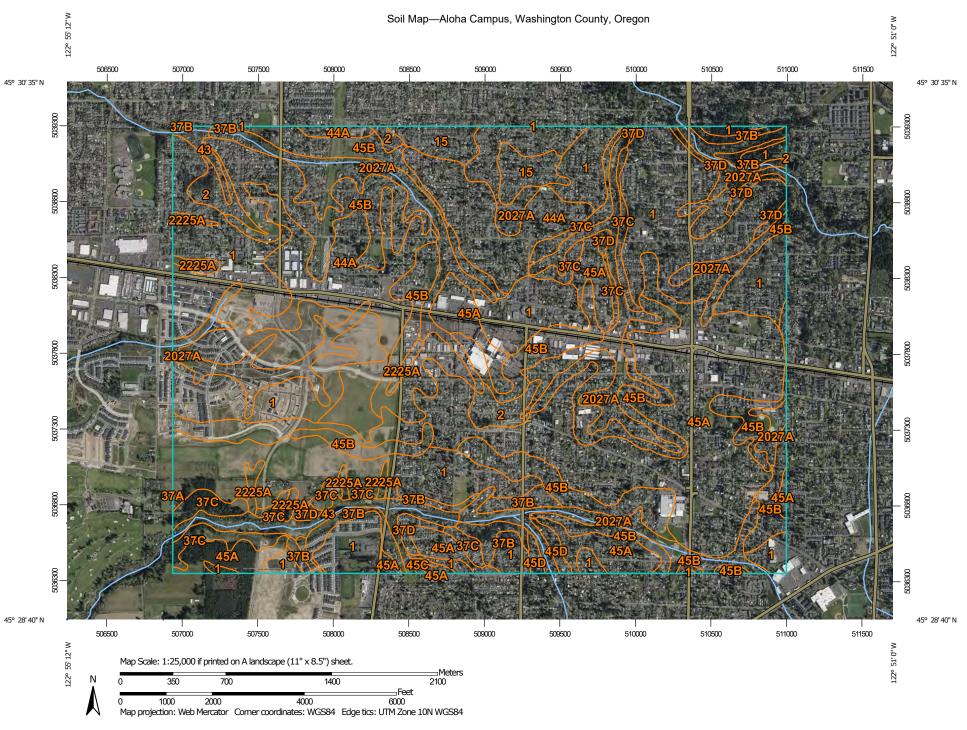


Aerial Photography



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
	Aloha silt loam	1,353.7	19.0%
1		·	
2	Amity silt loam	937.6	13.2%
13	Cove silty clay loam	61.9	0.9%
14	Cove clay	16.5	0.2%
15	Dayton silt loam	540.3	7.6%
19B	Helvetia silt loam, 2 to 7 percent slopes	47.1	0.7%
19D	Helvetia silt loam, 12 to 20 percent slopes	2.5	0.0%
30	McBee silty clay loam	21.4	0.3%
37A	Quatama loam, 0 to 3 percent slopes	126.4	1.8%
37B	Quatama loam, 3 to 7 percent slopes	232.7	3.3%
37C	Quatama loam, 7 to 12 percent slopes	38.6	0.5%
37D	Quatama loam, 12 to 20 percent slopes	6.4	0.1%
41	Urban land	325.1	4.6%
43	Wapato silty clay loam	96.9	1.4%
44A	Willamette silt loam, 0 to 3 percent slopes	626.2	8.8%
44B	Willamette silt loam, 3 to 7 percent slopes	63.3	0.9%
45A	Woodburn silt loam, 0 to 3 percent slopes	1,012.5	14.2%
45B	Woodburn silt loam, 3 to 7 percent slopes	821.0	11.5%
45C	Woodburn silt loam, 7 to 12 percent slopes	34.2	0.5%
45D	Woodburn silt loam, 12 to 20 percent slopes	15.4	0.2%
46F	Xerochrepts and Haploxerolls, very steep	10.7	0.2%
2027A	Verboort silty clay loam, 0 to 3 percent slopes	466.8	6.6%
2225A	Huberly silt loam, 0 to 3 percent slopes	254.5	3.6%
Totals for Area of Interest		7,113.0	100.0%



MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

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Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

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Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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Soil Survey Area: Washington County, Oregon Survey Area Data: Version 22, Sep 14, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 16, 2021—Apr 18, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Aloha silt loam	831.1	27.9%
2	Amity silt loam	44.0	1.5%
15	Dayton silt loam	51.7	1.7%
37A	Quatama loam, 0 to 3 percent slopes	0.0	0.0%
37B	Quatama loam, 3 to 7 percent slopes	69.0	2.3%
37C	Quatama loam, 7 to 12 percent slopes	93.5	3.1%
37D	Quatama loam, 12 to 20 percent slopes	30.0	1.0%
43	Wapato silty clay loam	60.6	2.0%
44A	Willamette silt loam, 0 to 3 percent slopes	277.1	9.3%
45A	Woodburn silt loam, 0 to 3 percent slopes	591.8	19.9%
45B	Woodburn silt loam, 3 to 7 percent slopes	483.0	16.2%
45C	Woodburn silt loam, 7 to 12 percent slopes	2.2	0.1%
45D	Woodburn silt loam, 12 to 20 percent slopes	11.7	0.4%
2027A	Verboort silty clay loam, 0 to 3 percent slopes	396.9	13.3%
2225A	Huberly silt loam, 0 to 3 percent slopes	31.4	1.1%
Totals for Area of Interest		2,974.0	100.0%