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MAY 29 2012

DIVISION OF AIR
RESOURCE MANAGEMENT



May 25, 2012

Jeff Koerner, P.E.
Office of Permitting and Compliance
Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Request for Additional Information dated March 1, 2012

Project No. 1030117-009-AC
Pinellas County Resource Recovery Facility
Emission and Process Limit Modifications

Dear Mr. Koerner:

On December 8, 2011, Pinellas County (County) submitted an application to the Florida Department of Environmental Protection (Department or FDEP) for two modifications to the PSD permit that governs the three municipal waste combustors at the Pinellas County Resource Recovery Facility (Facility), located at 3001 110th Avenue North in St. Petersburg, Florida. Specifically, the County wants to: (1) revise the emissions limits for particulate matter (PM), sulfur dioxide (SO₂), and carbon monoxide (CO); and (2) clarify that the compliance determination for the Facility's "MWC load" shall be based on the Facility's steam flow, rather than the weight of the solid waste processed at the Facility.

On March 1, 2012, the County received the Department's second Request for Additional Information (RAI) concerning the County's application for PSD modifications. Each question from the Department's RAI is repeated below. The County's answer follows the Department's question and in most cases, the County's answer is supplemented in an attachment to this letter.

1. With reference to question 4 in our previous RAI, please provide justification why a full ambient air quality standards (AAQS) analysis is not required given that initial modeling results predict ambient concentrations greater than the respective Class II one-hour and 24-hour Significant Impact Level (SIL).

PLEASE ADDRESS REPLY TO:

Solid Waste Division, 3095 114th Avenue N., St. Petersburg, FL 33716
Phone: (727) 464-7500 www.pinellascounty.org



The County has prepared an analysis of the impacts on ambient air quality that will be associated with the County's request for modifications to the Facility's PSD permit. Please see Attachment 1, "SO₂ and PM_{2.5} Modeling Report for the Pinellas County Resource Recovery Facility" (Modeling Report). The County's Modeling Report demonstrates that the permit modifications requested by the County will not cause or contribute to a violation of the 1-hour or the 24-hour ambient air quality standards (AAQS) for SO₂ and the modifications will not cause or contribute to a violation of the 24-hour or annual AAQS for PM_{2.5}. As a practical matter, the permit modification will result in lower SO₂ limits for the Facility and consequently there should be reductions in the Facility's impacts on ambient air quality. Further, the ambient air quality data obtained from two nearby monitoring stations clearly show that the ambient air quality near the Facility has improved significantly over the last few years, even with the Facility operating at its currently permitted emission rate for SO₂. The monitoring data demonstrate compliance with the 1-hour AAQS for SO₂ by a wide margin.

2. With reference to question 3 in our previous RAI, please provide hour-by-hour steam flow data for a representative year when the units were operating regularly at the maximum continuous rating. Please provide the MCR for the units and, if available, the peak (2 to 4 hour) rating.

The maximum continuous rating (MCR) for each boiler at the Facility is 256,000 lbs steam/hour. No peak rating is available for the boilers, although it is generally accepted that the units can be operated safely at levels that are 10% over the nominal MCR. Accordingly, the Facility's PSD permit contains a steam flow limit for each boiler of 275,000 lbs steam/hour.

The hour-by-hour steam flow data for the three units for calendar year (CY) 2007 are presented in Attachment 2. Note that the steam flow data in its entirety is provided on a CD and example data pages are included in Attachment 2. As shown in Attachment 2, the highest 4-hour steam flow during 2007 was 248,750 lbs/hr and it was achieved on September 2, 2007.

3. With reference to question 6 in our previous RAI, please provide the minute by minute data (if available) and the hour-by-hour data during the two days immediately before and after the continuous emission monitoring systems (CEMS) were replaced on each unit. Include lime injection rates as available.

The inlet CEMS for all three units were replaced in July 2008 and RATA testing was performed July 23 and 24, 2008, prior to placing the new inlet CEMS in service. The three outlet CEMS were replaced in December 2008 and RATA testing was performed January 6 through 8, 2009, prior to placing the new outlet CEMS in service. Minute-by-minute (where available) and hourly SO₂ and CO data for the periods immediately before and after the CEMS replacement are included in

Attachment 3. Note that the available minute-by-minute SO₂ and CO data in its entirety is provided on a CD and example data pages are included in Attachment 3.

As noted in the County's response to the Department's first RAI, lime injection rates are not available. Lime injection rates vary, depending upon the inlet SO₂ concentration and gas temperature. In the absence of measured lime injection rates, the County has estimated the lime usage during the 7-day periods prior to and after the CEMS were replaced on each unit. These estimates are included in Attachment 3.

4. Please provide a copy of the PSD Avoidance Report as required by Condition A.37 of Permit 1030117-008-AV. Please include updated analyses for SO₂, CO and include particulate matter (PM) per discussions of February 13, 2012.

The County's "Annual Post-Construction PSD Compliance Report for CY 2011" (PSD Avoidance Report) was submitted to the Department on March 1, 2012, and a copy is included in Attachment 4. However, the County now wishes to revise the baseline data and amend the PSD Avoidance Report. The revised data and the County's "Amended Annual Post-Construction PSD Compliance Report for CY 2011 and Request for Modification of the Baseline" (Amended PSD Avoidance Report), dated May 23, 2012 are also included in Attachment 4.

While preparing this response to the Department's second RAI, the County concluded that the methodology used to develop the baseline was not consistent with the Department's requirements in Rule 62-210.370, F.A.C. Although emissions data and operating hours from a 24-month period (as generated by the CEMS) were used to develop the baseline actual emissions for CO, SO₂ and NO_x, the 5-year average air flow was used, instead of a 24-month average. For stack test parameters, the 5-year average air flow and 5-year average emissions data were used, in combination with the operating hours for the 24-month period. Further, geometric mean data were used to calculate the SO₂ baseline actual emissions, rather than the arithmetic mean.

Pursuant to Rule 62-210.200(36), F.A.C., the data for a 24-month period should be used when developing the baseline actual emissions, unless an alternate period is approved. Accordingly, the County has recalculated the baseline actual emissions for the Facility to reflect a 24-month period for operating hours, CEMS data, air flow, and stack emissions and the County revised the SO₂ data to reflect the arithmetic mean. The results of the County's new analyses are presented in the Amended PSD Avoidance Report.

5. Please conduct and provide tests for PM to assess the effect of the variation in PM with respect to changes in the test method as well as changes in the control equipment operation. These can be conducted before or during the annual test campaign planned for April 2012.

Stack testing was performed from April 10 through 27, 2012. The stack tests included analyses of PM emissions at temperatures of 250°F and 320°F on two units because the County wanted to assess the affect of temperature on the PM test results. As previously discussed with the Department, the PM data used to develop the baseline actual emissions were analyzed in conjunction with HCl at a temperature of approximately 320°F, but PM emissions are currently analyzed in conjunction with metals at a temperature of approximately 250°F.

Preliminary data from the stack tests are included in Attachment 4 (Amended PSD Avoidance Report) and the final results will be provided to the Department with the submittal of the stack test report. As shown in Attachment 4 (Amended PSD Avoidance Report), the temperature during the test method had a significant impact on the measured PM results. The average PM concentration measured at low temperatures (17.18 mg/dscm@7% O₂) was approximately twice as large as the average PM concentration measured at high temperatures (8.24 mg/dscm@7% O₂). Stated differently, the average PM concentration measured at high temperatures was only about half (0.48) of the average concentration measured at low temperatures.

The preliminary results from the 2012 stack tests suggest that the PM concentrations measured during the 2011 stack tests would have been much lower if the 2011 stack tests had been conducted at a higher temperature, like the stack tests that were used to establish the Facility's baseline actual emissions. In Attachment 4 (Amended PSD Avoidance Report), the County used the ratio of the results from the two different test methods (2 different temperatures) used during the 2012 stack tests and applied that ratio (0.48) to the 2011 stack test data. The calculations in Attachment 4 (Amended PSD Avoidance Report) suggest that the PM concentrations measured during the 2011 stack tests would not have exceeded the PSD threshold for a significant emissions increase if the 2011 PM stack tests had been conducted with the same test method that was used to establish the Facility's PM baseline actual emissions.

In light of the 2012 stack test results, the County has concluded that future stack testing for PM will be performed at the higher allowable temperature. This approach will help ensure that the future test data will be consistent with the data used to establish the baseline actual emissions for the Facility.

Parenthetically, Units 1 and 3 were selected for testing because the County wanted to evaluate whether the PM emissions from the Facility are affected by the type of bags used in the fabric filter baghouse. The County currently is using a new type of bag in Unit 1. The 2012 test data indicate that the bags used in Unit 1 performed somewhat better than the bags used in Unit 3. However, the impact of using different bags was greatly outweighed by the effect of using a higher temperature when measuring PM concentrations.

In summary, the County respectfully requests the Department to approve the County's application for two PSD permit modifications, as described above. The information contained in this response to the Department's second RAI provides reasonable assurance that the proposed permit modifications will not cause or contribute to a violation of any applicable AAQS or any other applicable Department requirements.

The County's Amended PSD Avoidance Report (Attachment 4) was submitted to the Department under a separate cover for the Department's review and approval. The Amended PSD Avoidance Report demonstrates that there has not been a significant emissions increase at the Facility and therefore, a PSD permit modification is not required as a result of the previous construction projects at the Facility. Nonetheless, the County wishes to obtain the Department's approval for the proposed permit modifications because these modifications will provide additional flexibility for the operation of the Facility, thus enabling the County to operate the Facility in a cost-effective manner, while simultaneously maintaining compliance with the AAQS and other applicable standards.

Please contact me at (727) 464-7514 if the Department has any additional questions regarding this submittal.

Sincerely,



Kelsi Oswald
WTE Program Manager, Division of Solid Waste
Department of Environment and Infrastructure

This letter was sent to the following people by electronic mail with received receipt requested.

Robert Hauser, Pinellas County: rhauser@pinellascounty.org
Rebecca Macionski, Veolia ES Pinellas: rebecca.macionski@veoliaes.com
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Attachments

Attachment 1: “SO₂ and PM_{2.5} Modeling Report for the Pinellas County Resource Recovery Facility” with appendices, including CD of modeling results.

Attachment 2: Calendar Year 2007 Hourly Steam Flow Data (complete data is provided on CD)

Attachment 3: Pre and Post CEMS Replacement Data (7-day period)

- Minute-by-Minute SO₂ and CO Data (complete data is provided on CD)
- Hour-by-Hour SO₂ and CO Data
- Estimated Lime Injection Rates

Attachment 4: Copy of original “Annual Post-Construction Compliance Report CY 2011” (dated February 29, 2012) and “Amended Annual Post-Construction Compliance Report CY 2011 and Request for Modification of the Baseline”

Pinellas County Resource Recovery Facility

Title V Permit No: 1030117-008-AV

Facility Location:
3001 - 110th Avenue North
St. Petersburg, FL 33716
Pinellas County

Mailing Address:
David Scott, Executive Director
Pinellas County Dept. of Env and Infrastructure
14 South Fort Harrison Avenue, 5th Floor
Clearwater, FL 33756

Attached Document(s): PSD Permit Modification - Response to Request for Additional Information 2

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this document is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.



Signature

Date

Name

Title

Robert Hauser

Director, Solid Waste Division

ENGINEER'S CERTIFICATION

This response to the Department's Request for Additional Information dated March 1, 2012 was prepared by a Professional Engineer registered in the State of Florida and is being filed for public record. In accordance with Florida Administrative Code Chapter 62-4.050(3), the responses to Department's requests for additional information of an engineering nature must be certified by a professional engineer registered in the State of Florida. I hereby certify that, to the best of my knowledge, the statements made and data contained in this document are true, accurate and complete.



Attachment 1

**SO₂ and PM_{2.5} Modeling Report for the Pinellas County Resource Recovery
Facility**

SO₂ and PM_{2.5} Modeling Report
For the
Pinellas County Resource Recovery Facility

May 2012

1.0 Background

The Pinellas County Resource Recovery Facility (PCRRF) was constructed pursuant to Florida Department of Environmental Protection (FDEP) PSD air construction permits (FDEP Permit Numbers PSD-FL-11 and PSD-FL-98). An application was submitted by the County in December, 2011 to modify these permits and thereby authorize potentially significant increases in SO₂, PM, and CO emissions from the PCRRF. The County's application also sought a permit modification concerning the method of determining compliance with the PCRRF's limits for capacity or load.

1.1 Purpose of Air Dispersion Modeling

This modeling report documents the SO₂ and PM_{2.5} modeling that was performed for the PCRRF at the new potential SO₂ emission rate of 24 ppm_{dv} (24-hr geometric mean) and the current PM emission rate. This report also includes the ambient air monitoring data from a monitoring site that is very close to the PCRRF and a second site that is located approximately 3.6 miles from the PCRRF. The modeling and monitoring data provide reasonable assurance that the PCRRF is in compliance with the new SO₂ one hour (1-hr) ambient air quality standard (AAQS) and the PM_{2.5} AAQS.

It should be noted that the incremental increase in SO₂ emissions will only be the difference between the current actual emissions and the future potential emissions. This increase will be much less than the new proposed BACT level of 24 ppm_{dv} (24-hr geometric mean), which was used for this modeling. The new BACT level of 24 ppm_{dv} represents the maximum amount of the total future emissions, not the incremental increase. Thus, the modeling for SO₂ was very conservative.

The PM_{2.5} air quality dispersion modeling analysis for the County's PSD permit modification looked at a single stack with a PM_{2.5} emission rate based on 5.69 lb/hr (0.717 g/s). This emission rate is the average of all three units from the April, 2011 stack testing. The modeled ground-level concentrations have been compared to the corresponding significant impact level (SILs) and the ambient air quality standard to determine whether any modeled ground-level concentrations at any receptor location exceed the SIL or standard.

CO has not been modeled because there has been no change to the AAQS for CO. The prior modeling for the PCRRF demonstrated compliance with the AAQS by a wide margin at the proposed emission level. More specifically, the CO emissions from the PCRRF caused CO impacts that were less than one percent of the 1-hr and 8-hr AAQS for CO.

1.2 Area Map, Plot Plan and Process Flow Diagram

The PSD permit application submitted by the County in May 1995 included: (a) an Area Map, which identified the site orientation, scale, and PCRRF boundaries; (b) a Plot Plan showing the scale, north direction, a benchmark, and emissions point associated with the PCRRF; and (c) a Process Flow Diagram. Additional figures showing the PCRRF buildings, emission point, site characteristics, receptors and 1-hr SO₂ concentrations are shown in Section 3, below.

1.3 Federal Applicability

1.3.1 Nonattainment New Source Review (NNSR)

Pinellas County is classified as in attainment with the new 1-hr averaging time SO₂ ambient air quality standard and, thus; Non-attainment New Source Review (NNSR) does not apply to the PCRRF.

1.3.2 Prevention of Significant Deterioration (PSD)

As discussed in the County's December 2011 application, there may have been emission increases of carbon monoxide (CO) and sulfur dioxide (SO₂) associated with the PCRRF that are greater than the respective PSD Significant Emissions Rate, as defined in Rule 62-210.200(282), F.A.C. Therefore, FDEP's PSD requirements in Rule 62-212.400, F.A.C., apply to the PCRRF.

2.0 Air Quality Impact Approach

As part of the County's application for a PSD permit modification, an air quality dispersion modeling analysis is required to demonstrate that the incremental emission increases from the PCRRF will not cause or contribute to exceedances of the new 1-hr average SO₂ AAQS. Previous air dispersion modeling was performed in support of the County's 1995 PSD permit application. The 1995 modeling verified that the PCRRF will not cause or contribute to a violation of any applicable AAQS and the PCRRF will not fully consume the available PSD increments.

Given the information contained in this report, we believe it is not necessary to model the cumulative impacts of the modification associated with the PCRRF and background emission sources for comparison to the applicable NAAQS. However, at the request of FDEP, a cumulative analysis of the 1-hr and 24-hr SO₂ impacts has been conducted. An increment consumption analysis is not necessary because a 1-hr SO₂ PSD increment has not yet been established.

2.1 Applicable Air Quality Standards

The averaging periods of interest for the SO₂ analyses are the one hour and 24-hr SO₂ levels. In addition, due to the recent change in the Florida rules adding PM_{2.5} standards,

analyses were also performed for PM_{2.5} 24-hr and annual impacts. The significant impact limits (SILs) and AAQS are presented in Table 1. The modeled emission and source parameters used in this analysis for the PCRRF were taken from the County's 1995 permit application, and these parameters have been confirmed with recent stack testing data and best engineering judgment. The modeling has been conducted and prepared in accordance with Appendix W of the EPA Guideline on Air Quality Models and the FDEP Air Quality Modeling Guidelines.

Table 1 Applicable SO₂, AAQS, PSD Monitoring, SIL and PSD Increments

Air Constituent	Average Time	AAQS Primary (µg/m ³)	AAQS Secondary (µg/m ³)	PSD Monitoring Significance (µg/m ³)	Significant Impact Levels (µg/m ³)	PSD Increment Class II Area (µg/m ³)
SO ₂	1-hr	196	NA	---	7.6	NA
SO ₂	24-hr	365	NA	13	5	91
PM _{2.5}	24-hr	35	NA	4	1.2	9
PM _{2.5}	Annual	15	NA	---	0.3	4

NA = there is no applicable standard

2.2 Emissions Inventory

The County believes that the emissions from the PCRRF will not be increasing as a result of the proposed permit modification. The emission rates for the PCRRF were detailed in the modeling protocol that was submitted by the County and approved by FDEP in October 1994. The PCRRF emissions for the County's 2011 application were developed based on full-time operations (24 hours per day, 365 days per year) at the maximum case load, as determined in the 1995 application. The emission rate is based on ppm_{dv} (geometric mean). This value is converted to lb/hr as follows:

SO₂ ppm to lb/hr

$$\text{lb/hr} = \text{ppm} \backslash 1,000,000 \times \text{dscfm} \times 64 \text{ lb/mole} \times 0.0025956 \text{ mole/dscf} \times 60 \text{ min/hr} = 103.3 \text{ lb/hr}$$

Table 2 presents the SO₂ emission rate and stack characteristics used in the current modeling for the PSD permit modification. The emission rate is the rate proposed as BACT in the County's December 2011 application and it is lower than the current permit level. The stack characteristics are based on the 1995 permit application's screening analysis of varying thermal loads and highest heating values. The maximum emission rate occurs with 110 percent thermal load when burning fuel with a higher heating value of 5000 Btu/lb.

PM_{2.5} emission rates are also presented in Table 2. They are based on the assumption that all of the PM emissions are PM_{2.5}.

Table 2 Emission Rate and Stack Characteristics

	UTM East	UTM North	SO ₂	SO ₂	SO ₂	Ht	Temp	Velocity	Dia*
Emission Source	m	m	tpy	lb/hr	g/s	m	K	m/s	m
Main Stack	335,273	3,084,303	439.4	100.3	12.64	50.29	405.4	21.76	4.49
Main Stack			PM _{2.5}	PM _{2.5}	PM _{2.5}				
Main Stack			24.92	5.69	0.717				

Note: *Effective Stack Diameter and Exit Velocity for three flues

2.3 Model Selection

The American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee (AERMIC) was formed to introduce state-of-the-art modeling concepts into the EPA's air quality models. Through AERMIC, a modeling system, AERMOD, was introduced that incorporated air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain. It was developed as an improved air dispersion model for replacement of the Industrial Source Complex (ISC) model and has been accepted by the State of Florida for use in PSD permitting applications. AERMOD handles the same variety of possible emission source configurations, as did ISC3, and incorporates the BPIP Prime algorithm for building downwash, and provides program modules for preparing a more robust meteorological data base and digital terrain model processing.

RTP used a current version of the AMS/EPA Regulatory Model (AERMOD version 11353) to predict the maximum 1-hr SO₂ concentrations in support of the air dispersion analyses. AERMOD is used to model concentrations on both surrounding terrain, which is above or below the lowest physical stack height, and on intermediate terrain (between physical stack height and height of final plume rise). Modeling incorporates building downwash algorithms to estimate the maximum ground-level concentrations near the facility. A building downwash analysis is performed by using the current BPIP-PRIME program (version 04274) provided by EPA.

AERMOD modeling was performed in the regulatory mode using the rural dispersion mode as determined in the 1995 permit application. An urban classification increases the dispersion rates of a pollutant because of increased surface roughness from more numerous buildings in the area, and greater heat release from concrete and similar surfaces. Thus, a rural classification generally results in more conservative modeled impacts in an area. Although the PCRRF itself is an industrial land use, RTP believes

the land uses surrounding the PCRRF are primarily rural/suburban because the surrounding area is predominately comprised of residential and light industrial land uses. The surrounding area primarily consists of homes, warehouse buildings, apartment buildings, grass fields (closed landfills), and short trees.

2.4 Meteorological Data

FDEP has prepared and provided the meteorological data using the AERMET processor. RTP believes that the 5 year surface and profile data sets (2006 through 2010) from the Tampa Airport meteorological monitoring system are representative and suitable for use to predict impacts from the proposed modification at the PCRRF.

Terrain and prevailing synoptic meteorological patterns between the Tampa Airport and the PCRRF are believed to be similar because the PCRRF is located approximately 2 miles south-southwest of the meteorological station at the Tampa Airport. RTP proposes to use these data for the air dispersion modeling of the air pollutant impacts from sources operating at the PCRRF.

2.5 Receptors

The modeling for the SO₂ and PM_{2.5} standards was performed using a new receptor grid; namely, receptors were placed on a Cartesian grid network designed to ensure that the maximum impact was captured. As shown in Figure 1, a fine 100 meter (m)-spaced grid was placed out to 3 kilometers (km). A coarser grid with 500-m spacing was placed from 3-km to 10-km, followed by a coarser 1,000-m spaced grid from 10-km out to 30-km. Receptors were also placed around the PCRRF fence line at a spacing of 50 meters. Figure 2 represents the total receptor grid that was modeled. AERMAP was used to generate elevations using the applicable NED files.

Figure 1 - 100 m Spacing Receptor Grid

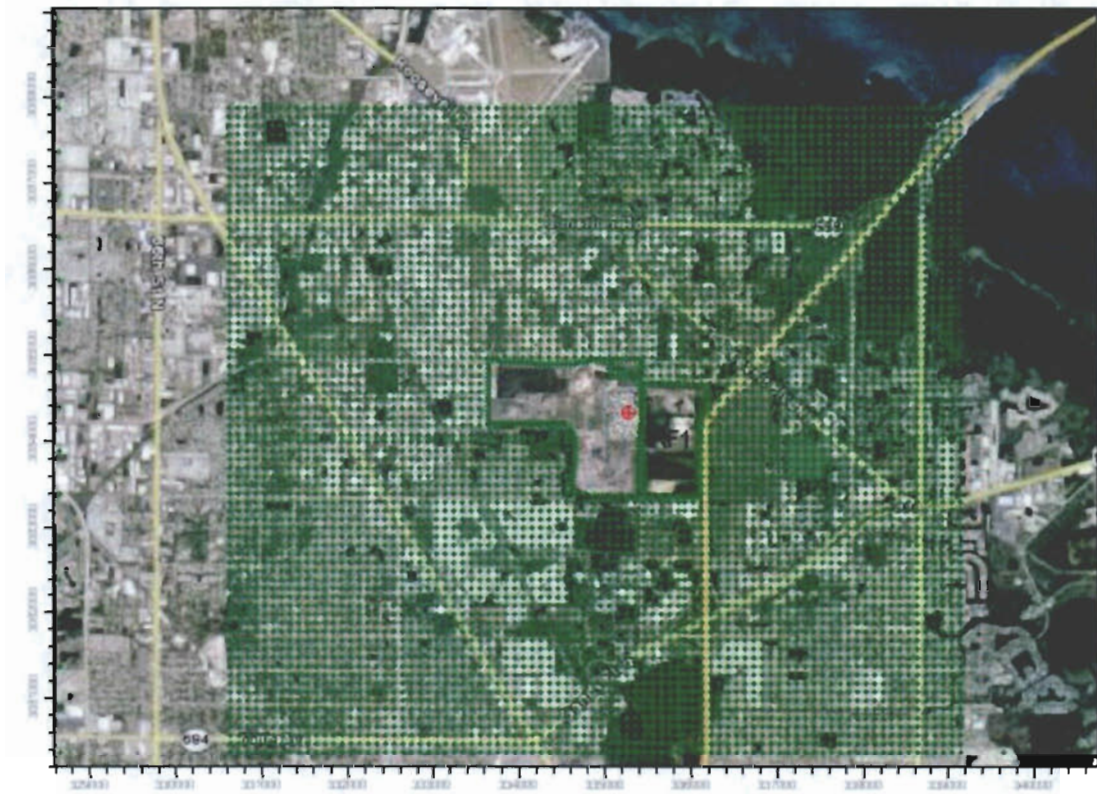
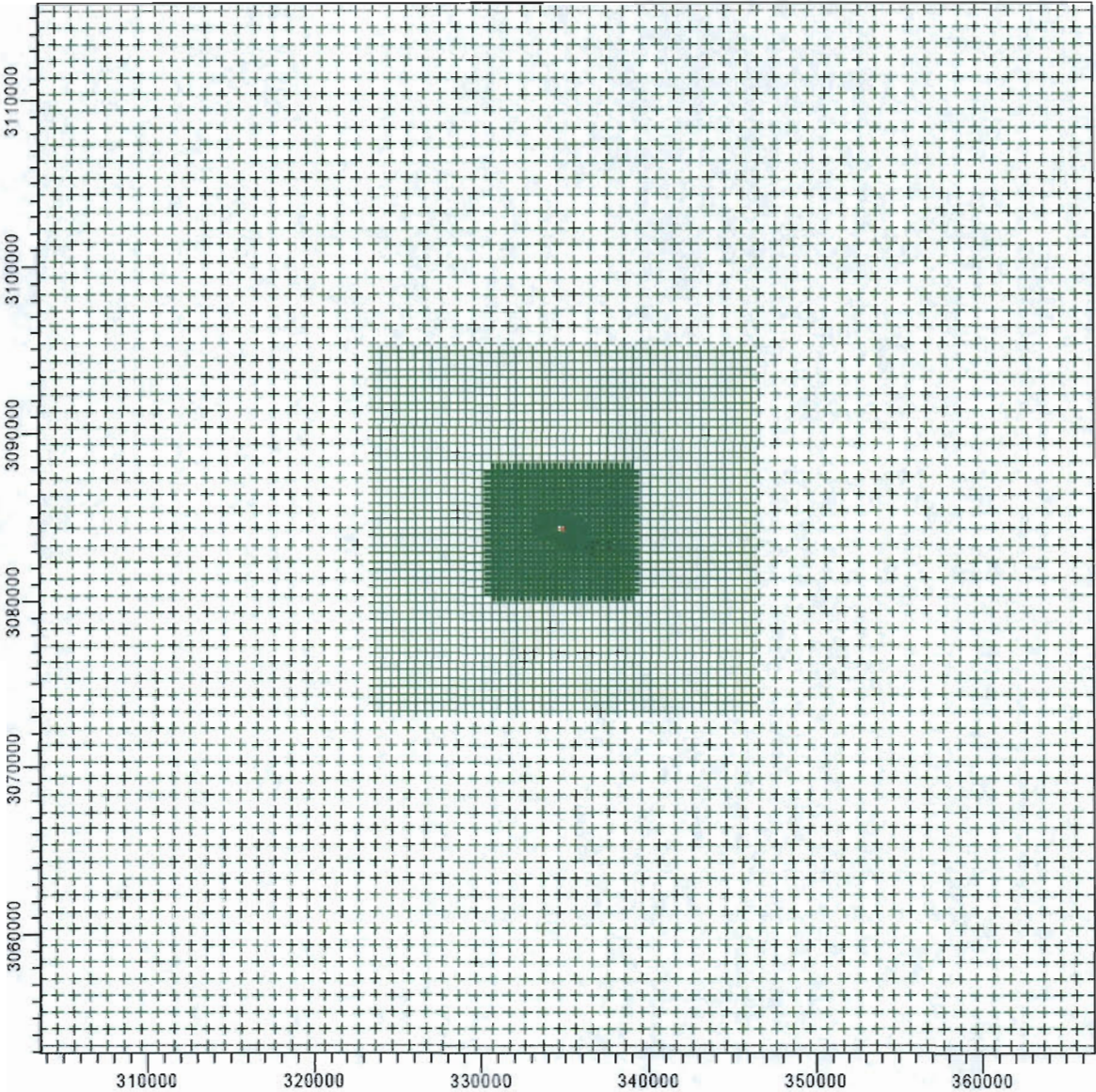


Figure 2 - Full Receptor Grid



2.6 Building Downwash - BPIP-PRIME

The effects of building downwash on the emission sources at PCRRF were included in the modeling study. The purpose of the evaluation is to determine if stack discharges may become caught in the turbulent wakes generated by these structures. Wind blowing around a structure creates zones of turbulence that are greater than if the structures were absent. Emission sources with a stack height less than the minimum Good Engineering Practice (GEP) stack height may be affected by downwash caused by a nearby structure. The PCRRF stack is not a GEP stack, because the height of the stack is limited due to the close proximity of the St. Petersburg Clearwater International Airport. Direction-specific structure dimensions and the dominant downwash structure parameters used as input to the air quality dispersion model were determined using USEPA's BPIP-PRIME (dated 04274 for AERMOD) program.

Table 3 summarizes the description and heights of each structure at PCRRF that was considered in the downwash analysis, and its corresponding tier height. Figure 3 includes a plot plan that shows the location of the structures relative to the emission sources.

The output from the analysis lists the names and dimensions of the structures generating wake effects and the locations and heights of the affected emission source. In addition, the output contains a summary of the dominant structure of the stack (considering all wind directions) and the actual structure height and the projected widths for all wind directions. This information is then incorporated into the input files for the AERMOD model.

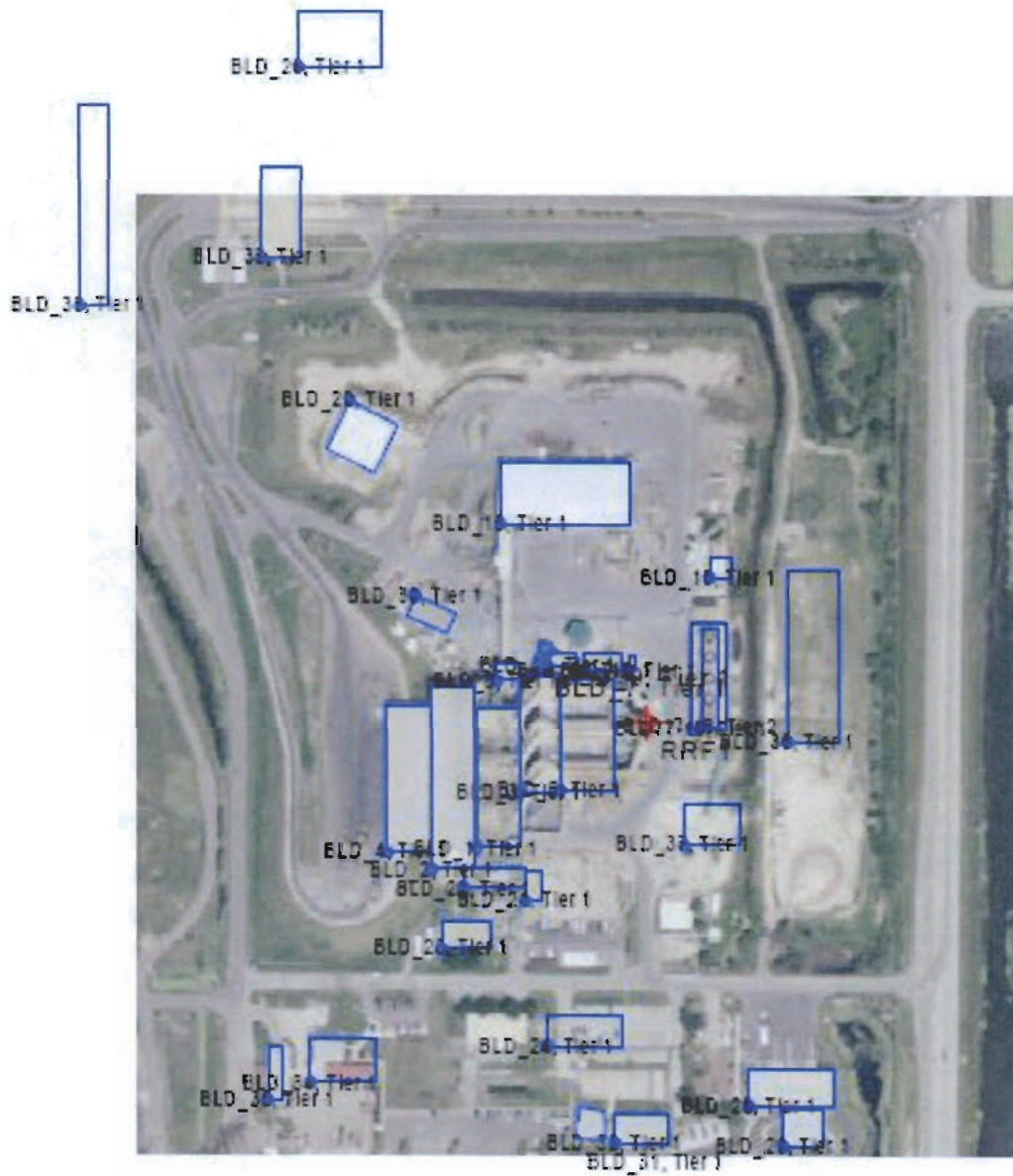
2.7 Air Quality Monitoring Data

The U.S. EPA's Guidelines on Ambient Monitoring require PSD permit applicants to provide air quality monitoring data to determine if emissions of a pollutant would cause or contribute to a violation of the NAAQS or a PSD increment. The data must be gathered over a period of at least a year and must represent at least the year preceding receipt of the permit application. EPA allows substitution of existing representative air quality data in lieu of having the source generate its own preconstruction monitoring data, provided the existing data meet the criteria in the Ambient Monitoring Guidelines for PSD (May 1987). FDEP also has authority to waive the monitoring requirement if representative air quality monitoring data are available.

Table 3 Buildings Included in BPIP-PRIME Analysis

Building No.	No. of Tiers	Building Name	Tier 1 Ht (m)	Tier 1 Ht (ft)	Tier 2 Ht (m)	Tier 2 Ht (ft)
BLD_1	1	Boiler Enclosures	33.5	109.9		
BLD_2	1	B.E. w/ Refuse Pit	32.1	105.2		
BLD_3	1	B.E. w / Spray Dry Absorbers	25.1	82.5		
BLD_4	1	B.E w/ Tipping Floor	20.7	68.0		
BLD_5	1	B.E.w /FF Baghouses	16.2	53.0		
BLD_7	1	Carbon Silo	11.0	36.0		
BLD_9	1	Lime Silos	15.5	51.0		
BLD_8	1	Fly Ash Silo	18.0	59.0		
BLD_10	1	Lime Silos w / Slurry Tanks	7.3	24.0		
BLD_11	1	Air Compressor Building	6.1	20.0		
BLD_12	1	CEMs Building	6.1	20.0		
BLD_15	1	Material Recovery Bldg	21.3	70.0		
BLD_16	1	Lime Softener Area	13.6	44.6		
BLD17-18	2	Cooling Tower Tier Bottom (18) Top (17)	10.7	35.0	18.3	60.0
BLD_20	1	Warehouse (WTE new)	13.2	43.3		
BLD_21	1	Switchgear Building	6.1	20.0		
BLD_22	1	Turbine Generator Building	10.7	35.0		
BLD_23	1	Administration Building (WTE)	7.4	24.2		
BLD_24	1	Administration Building (WTE additional)	7.1	23.2		
BLD_26	1	Administrative Building (SWO)	12.4	40.7		
BLD_28	1	HEC3 Storage (new)	12.0	39.4		
BLD_29	1	HEC3 Office (new)	9.6	31.4		
BLD_30	1	Maintenance Building (WTE)	6.1	20.0		
BLD_31	1	Maintenance Office Building (SWO)	8.9	29.3		
BLD_32	1	Maintenance Storage Building (SWO)	11.2	36.8		
BLD_33	1	Scales	10.7	35.0		
BLD_34	1	Landfill Contractor Building	12.0	39.4		
BLD_35	1	Hand Unload	12.8	42.1		
BLD_36	1	Truck Wash	11.6	38.2		
BLD_37	1	Shower Locker Facility	8.4	27.5		
BLD_38	1	WTP Facility All	14.6	48.0		

Figure 3 Plot Plan of PCWEF and Buildings in BPIP-PRIME Analysis



There are two SO₂ monitoring stations in Pinellas County that are near the PCRRF and are representative of the air quality in the vicinity of the PCRRF as shown on Figure 4. One monitoring site is located at the PCRRF, approximately 3500 feet (1070 meters) from the maximum predicted 1-hr SO₂ concentration, and the other monitoring site is located at Derby Lane, which is approximately 3.6 miles (5800 meters) from the maximum predicted 1-hour SO₂ concentration. The baseline air quality at the PCRRF can be adequately described utilizing the existing SO₂ data from these two SO₂ monitoring stations. Therefore, the County requests a waiver from the preconstruction monitoring requirements on the basis that adequate representative data are already available to describe current conditions.

Table 4 presents the representative SO₂ concentrations, as measured at the two monitoring stations. These SO₂ values were provided by FDEP for the years 2006 through 2010 at the Resource Recovery Facility site and for 2006 through 2011 at the Derby Lane site. These SO₂ values include the impacts from the PCRRF because the PCRRF operated during those years.

The 1-hr SO₂ concentrations at Derby Lane vary from a maximum of 168 ppb (440 µg/m³) in 2007 to a minimum of 20 ppb (52.4 µg/m³) in 2011. Note that there was an 88% reduction. The parts per billion (ppb) concentrations have been converted to micrograms per cubic meter (µg/m³) by multiplying the ppm by 2.62. AERMOD predicted concentrations are presented in µg/m³. The maximum 1-hr SO₂ concentrations at the PCRRF site vary from a maximum of 62 ppb (162.4 µg/m³) in 2007 to a minimum of 22 ppb (57.6 µg/m³) in 2010. The data reflect a 65% reduction in the maximum SO₂ values at the PCRRF site.

As shown by the monitoring data, over the past few years there has been a significant reduction in the ambient 1-hr SO₂ levels measured near the PCRRF. There also has been a significant reduction in the one hour design value (the three year average of the 99th percentile annual daily maximum) that is used to demonstrate compliance with the 1-hour SO₂ standard. These reductions in ambient SO₂ concentrations are likely due to emission reductions at other emissions sources in the area of the PCRRF.

PM_{2.5} modeling predicts concentrations well below the respective SILs and, thus, PM_{2.5} monitoring data do not need to be reviewed for this analysis.

Figure 4 Locations of the SO₂ Ambient Air Quality Monitoring Stations (Yellow Triangles) with Respect to PCRRF (Green Star)

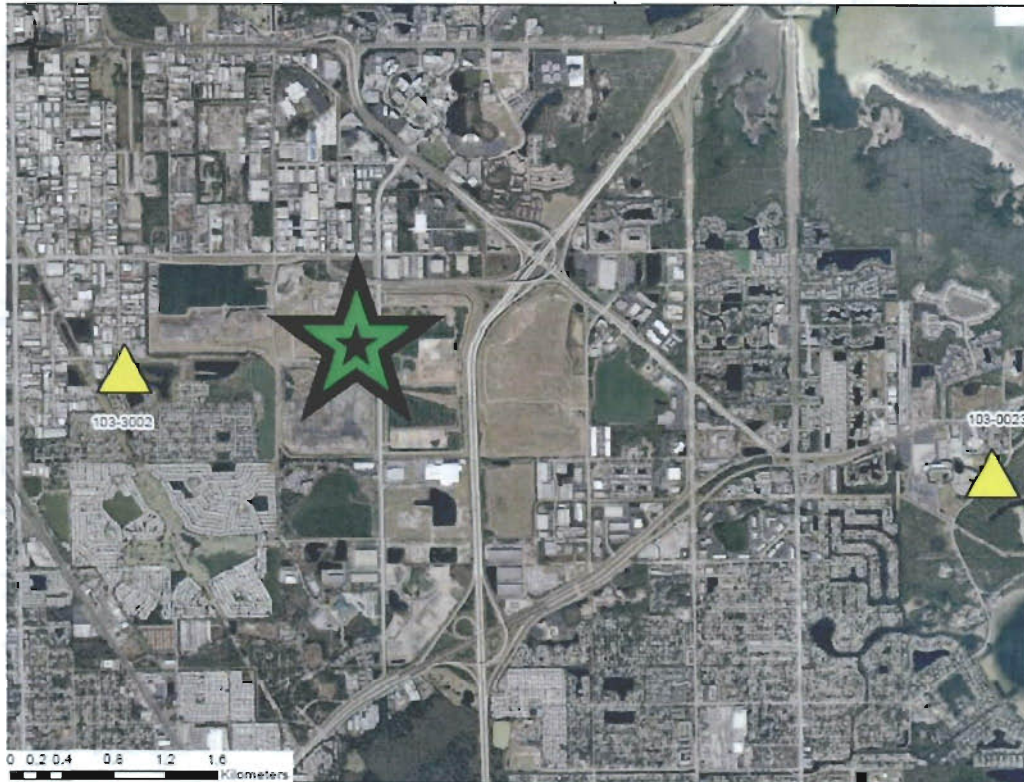


Table 4 SO₂ Concentrations**Sulfur Dioxide (42401) Units: ppb****Site:L1030023 - Derby Lane County:Pinellas AQS Monitor ID:12-103-0023-42401-1**

Year	Ranked 1-Hour Averages		Ranked 3-Hour Averages		Ranked 24-Hour Averages		Annual Average	99th Percentile Values		Design Value
	1 st	2 nd	1 st	2 nd	1 st	2 nd		Complete Days	Valid	
2006	142 (07/21)	133 (09/09)	75 (09/09:09)	70 (09/16:12)	24 (09/16)	19 (09/09)	2.6	109	109	
2007	168 (06/17)	118 (09/16)	79 (06/17:12)	75 (06/17:09)	29 (06/17)	27 (08/21)	3.4	92	92	
2008	119 (06/07)	94 (07/04)	63 (07/04:09)	57 (06/07:09)	22 (10/23)	18 (06/07)	2.4	62	62	88†
2009	101 (02/13)	100 (02/06)	46 (03/13:12)	46 (02/06:12)	10 (03/24)	9 (02/06)	1.5	58	58	71
2010	40 (01/11)	19 (01/09)	32 (01/11:12)	27 (01/11:15)	9 (01/11)	6 (01/09)	1.2	15	15	45
2011	20 (07/05)	16 (06/03)	11 (07/05:03)	10 (06/03:00)	3 (06/09)	3 (06/03)	0.9*	14*	14*	29*

* There was insufficient data to produce a valid average.

† Indicates the standard was exceeded.

Site:L1033002 - Resource Recovery Facility County:Pinellas AQS Monitor ID:12-103-3002-42401-1

Year	Ranked 1-Hour Averages		Ranked 3-Hour Averages		Ranked 24-Hour Averages		Annual Average	99th Percentile Values		Design Value
	1 st	2 nd	1 st	2 nd	1 st	2 nd		Complete Days	Valid	
2006	58 (01/20)	55 (09/16)	41 (09/16:09)	38 (01/20:12)	8 (01/20)	7 (09/16)	1.4	37	37	
2007	62 (08/25)	49 (09/12)	38 (08/25:06)	37 (06/28:03)	13 (06/28)	11 (08/25)	1.8	46	46	
2008	31 (04/10)	28 (06/07)	19 (04/02:09)	19 (04/10:06)	7 (04/10)	4 (04/02)	1.2	22	22	35
2009	23 (03/05)	19 (03/24)	12 (02/26:09)	11 (03/24:06)	3 (03/05)	3 (03/24)	1.1	16	16	28
2010	22 (01/11)	19 (01/03)	12 (01/11:12)	11 (01/03:12)	4 (01/11)	2 (01/10)	1.0*	9*	9*	16*
2011										

* There was insufficient data to produce a valid average.

The national 3-hour ambient air quality standard for SO₂ is 0.5 ppm. The standard is attained when the number of exceedance is no more than once per calendar year. The 24-hour standard for SO₂ is 0.14 ppm. The standard is attained when the number of exceedance is no more than once per calendar year. The annual standard for SO₂ is 0.03 ppm. The standard is attained when the annual mean is less than the standard. The 1-hour NAAQS standard for SO₂ is met when the design value (3-year average of the 99th percentile annual daily max) is less than or equal to 75 ppb.

Note that the “Complete Days” and “Valid” columns in Table 4 represent the 99th percentile values and not the total monitoring days.

3.0 Air Dispersion Modeling

The air quality dispersion modeling analysis for the County's PSD permit modification looked at a single stack with an SO₂ emission rate based on 24 ppm, even though the CEMS data show a zero or even negative incremental change in 24-hr SO₂ emissions, when based on a comparison of current actual to future potential emissions. The modeled ground-level concentrations have been compared to the corresponding significant impact levels (SILs) and the ambient air quality standards to determine whether any modeled ground-level concentrations at any receptor location exceed the standard.

3.1 SO₂ Model Results

The results of the modeling analysis for the SO₂ AAQS are summarized in Table 5. Modeling for SO₂ was performed to compare the PCRRF's maximum impacts to the 1-hr average significant impact level and the AAQS. The SO₂ 1-hr predicted maximum concentration is 18.15 µg/m³ and it occurs approximately 50 m from the PCRRF's

southwest fence line, as shown in Figure 5. This concentration occurs with the meteorological data from 2008. The modeled SO₂ concentrations remain above the SIL of 7.6 µg/m³ for a distance of 10.2 km west of the PCRRF's western boundary, as shown on Figure 6. The 24-hr SO₂ maximum predicted concentration is 5.76 µg/m³ and it occurs along the Northeast fence line. This 24-hr concentration occurs with the meteorological data from 2008. The modeled SO₂ concentrations remain above the SIL of 5 µg/m³ for a distance of 950 m east of the PCRRF's eastern boundary

Table 5 – Summary of SO₂ and PM_{2.5} AERMOD Results

Air Constituent	Average	AAQS	AAQS	PSD	Significant Impact Levels	PSD	SO ₂ Concentration	Exceed SIL?	Exceed AAQS?
	Time	Primary (µg/m ³)	Secondary (µg/m ³)	Monitoring Significance (µg/m ³)	(µg/m ³)	Increment Class II Area (µg/m ³)	H1H (µg/m ³)		
SO ₂	1-hr	196.5	---	---	7.6	---	18.15	Y	N
PM _{2.5}	24-hr	35	---	---	1.2	3	0.33	N	N
PM _{2.5}	Annual	15	---	---	0.3	4	0.03	N	N

		H1H (µg/m ³)					5yr Max Ave
12.64	g/s SO ₂	2006	2007	2008	2009	2010	2008.00
SO ₂	1-hr	16.99	17.49	18.15	17.83	17.02	17.50
SO ₂	24-hr	5.33	4.35	5.76	4.19	3.76	4.68
SO ₂	Annual	0.41	0.55	0.41	0.44	0.38	0.44
0.717	g/s PM _{2.5}						
PM _{2.5}	24-hr	0.30	0.25	0.33	0.24	0.21	0.27
PM _{2.5}	Annual	0.02	0.03	0.02	0.02	0.02	0.02

Notes:

Ratio PM_{2.5} 24-hr and Annual Concentrations by Multiplying 24-hr and Annual SO₂ concentrations by PM_{2.5} Emission Rate divided by SO₂ Emission Rate (0.717g/s/12.64) X SO₂ Concentration = PM_{2.5} Concentration

The calculated maximum 24-hr and Annual PM_{2.5} concentrations were verified with AERMOD runs.

3.2 PM_{2.5} Model Results

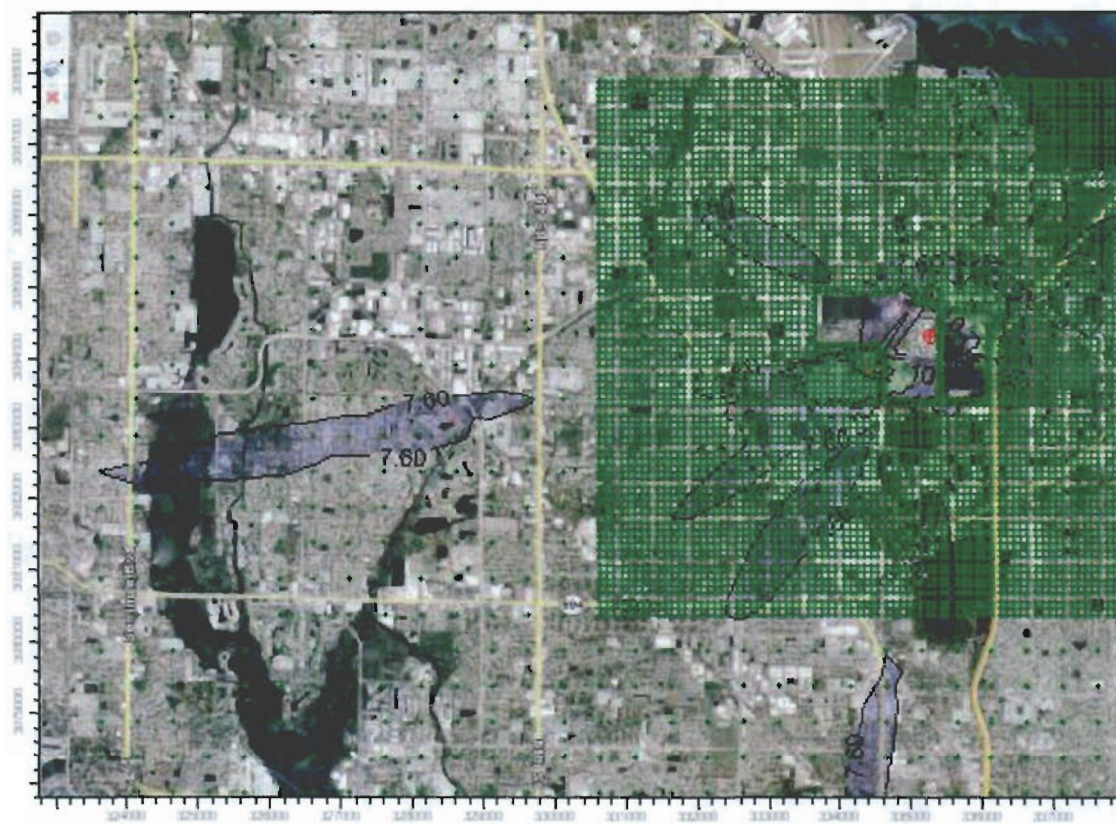
The results of the modeling analysis for the annual and 24-hr PM_{2.5} AAQS are summarized in Table 1. Modeling concentrations for PM_{2.5} were calculated by multiplying the 24-hr and annual SO₂ concentrations by the factor of the PM_{2.5} emission rate divided by SO₂ emission rate (0.717/12.64). The average of the PM_{2.5} 24-hr predicted maximum for each of the 5 years of meteorology data considered is 0.27 µg/m³. The single year (2008) maximum concentration is 0.33 µg/m³. The maximum occurs 100m from the PCRRF's southwest fence line. The annual PM_{2.5} concentration is 0.03 µg/m³ and occurs along the northeast fence line with meteorological data from 2007. Both concentrations were verified by running the AERMOD model with the 2007 and 2008 meteorological data sets from Tampa. The maximum modeled PM_{2.5} annual

and 24-hr concentrations remain well below the applicable SILs of 0.3 and 1.2 µg/m³ and, thus, they are well below the ambient air quality standards or 15 and 35 µg/m³, respectively.

Figure 5 Maximum 1-hr SO₂ Concentration Location



Figure 6 Extent of 1-hr SO₂ SIL Concentration



4.0 Methodology for the SO₂ Cumulative Impact Analysis

A cumulative impact multi-source analysis has been conducted for the 1-hr and 24-hr SO₂ averaging periods for comparison to the applicable Federal and State AAQS. This modeling is requested because the highest, maximum 1-hr and 24-hr SO₂ modeled concentrations were found to be above the respective PSD Significant Impact Levels. It was previously noted, however, that there has been a significant reduction in the actual ambient 1-hr SO₂ concentrations based on *monitoring* data. This section describes the methods that were used to compile the data to perform the multi-source modeling analysis.

4.1 Modeling Approach

The cumulative impact analysis was conducted using the modeling procedures outlined in the Guideline on Air Quality Models (40 CFR Part 51 Appendix W, November 2005). The area assessed for compliance with AAQS was limited to the area where the project has a significant air quality impact determined from the SIL modeling. This area is referred to as the Significant Impact Area (SIA).

Since the project's modeled impacts for SO₂ for both 1-hr and 24-hr averages are above the SIL, a cumulative impact analysis was performed that includes background sources along with the proposed project sources. The air quality analysis was expanded to include a demonstration of compliance with the 1-hr and 24-hr SO₂ state and national ambient standards as previously described in Table 1. Listed below is a general summary of the multi-source modeling steps that were performed for demonstration of compliance with the AAQS.

Step 1

The SIA was determined for the SO₂ 1- and 24-hr averaging times. The maximum radius, which occurred for the 1-hr SO₂ averaging time was 10.2 km. The multi-source assessment region is defined as the SIA plus 50 km, or 60 km. 62 km was used as a conservative value for the multi-source assessment region. The 24-hr maximum SIA radius was 950 m.

Step 2

The appropriate background source inventories for all counties within 60 km of the facility were obtained from FDEP based upon the SIA. This included over 1000 separate emission sources.

Step 3

A 20D screening analysis was performed to eliminate sources that would not have a significant impact on the receptors where the SIL was exceeded in the single source maximum concentration analysis discussed previously. The regional inventory was inspected and duplicate records were also eliminated, using records with the most recent potential emissions reported.

Step 4

AERMOD was used to model the PCRRF source and the screened background sources from the inventory obtained from FDEP.

Step 5

The modeling results were used to demonstrate that PCRRF does not contribute significantly at receptors where the cumulative impact exceeds the NAAQS.

The multisource assessment region is the basis for obtaining a background source inventory for the analysis of NAAQS compliance. The domain for evaluating the background sources encompasses only counties in Florida. The NAAQS background sources listed in the emission inventories provided by FDEP were evaluated in the screening analysis if they were inside the multi-source assessment region. The full list of background sources and the 20D analysis is provided in Appendix A.

Sources in the NAAQS inventories were initially evaluated by a screening technique called the 20D rule. The object of the rule is to minimize the number of background sources in the model, while including all sources which are likely to have a significant impact inside the SIA. This technique is based on calculating the 20D value. For short-term pollutants concentrations, D is taken to be the distance in kilometers from the background source to the project site location, or the primary source. The value of D is then multiplied by 20 to obtain the 20D value for comparison to total facility potential emissions in tons per year. A regional source is included in the analysis if the total emissions for the regional sources exceeds the calculated 20D value.

Based on the initial SIA, the distance from the regional source to PCRRF was calculated, and sources greater than 62km were eliminated. Then the 20D value was calculated for each facility in the background inventory and compared to the facility-wide potential emissions from the facility. A safety factor of 20% was introduced by multiplying the facility-wide potential emissions by 1.2 and then comparing that number to the 20D. If 1.2 times the facility-wide allowable emission rate in tons/year was greater than the 20D value, that facility's sources were included in the cumulative dispersion modeling analysis. If the facility total potential emissions were less than 20D, then the facility was eliminated from the multi-source cumulative impact analysis for that pollutant. To be conservative, two sources were included in the inventory because they are located within 30 km of PCRRF (Hillsborough RRF-ID570261 and New NGC-ID570028), even though the emissions from each of these sources are less than the 20D value. Sources that were eliminated included sources listed as "Inactive" and sources where short term and annual potential emissions were not reported in the Regional Emissions Inventory forwarded by FDEP. The 20D regional source screening analysis is provided in Appendix A. The MS Excel electronic spreadsheet is included in the attached disk. Appendix B provides a table of the final regional source emissions inventory in metric units as direct inputs to the AERMOD model.

4.2 AERMOD Application

For the NAAQS compliance demonstration, AERMOD was used to model the screened regional background sources along with the PCRRF stack emissions resulting from the maximum operating conditions established in the 1995 PSD permit application.

The model receptor grid for the 1-hr SO₂ cumulative source analysis was set up to include only those receptors where the highest 1-hr SO₂ concentrations exceed the 1-hr SIL in the modeling analysis for the facility source alone. There are 1,111 receptors out of the 11,748 initial receptors that meet these criteria. The model receptor grid for the 24-hr SO₂ cumulative source analysis was set up to include only those receptors where the highest 24-hr SO₂ concentrations exceed the 24-hr SIL in the modeling analysis for the facility source alone. There are 16 receptors out of the 11,748 initial receptors that meet these criteria for the 24-hr impacts for this analysis. The same 5 years (2006 – 2010) of Tampa Airport meteorological data used in the PCRRF modeling were used for this analysis.

4.3 Summary of NAAQS Analysis

Table 4-1 provide a summary of the AERMOD modeling for the combined impacts of the facility and NAAQS background sources for 1-hr and 24-hr SO₂ for the receptors where the highest 1-hr and 24-hr concentrations exceed the SIL.

Table 4-1 SO₂ AERMOD NAAQS Modeling Results

Air Constituent	Averaging Time	AAQS Primary (µg/m ³)	SO ₂ Concentration 99% (4th high) (µg/m ³)	SO ₂ Concentration H2H (µg/m ³)	Exceed AAQS?
SO ₂	1-hr	196.5	672.90	----	Y
SO ₂	24-hr	365	----	135.2	N

The initial results of the multisource analysis for SO₂ that included PCRRF and the final screened regional source inventory shows compliance with the 24-hr AAQS, but indicates potential exceedances of the 1-hr SO₂ NAAQS. Following USEPA guidance, for comparison to the 1-hr SO₂ NAAQS (4th highest daily 1-hr maximum concentration) cumulative impact, the next step was to determine if PCRRF was significantly contributing (i.e., its maximum modeled 1-hr SO₂ impact was equal to or exceeded the SIL both spatially and temporally) at any of these modeled NAAQS exceedances. This step involved determining when the 1-hr SO₂ standard was exceeded and analyzing the modeled source impacts to determine whether the PCRRF's impact equaled or

exceeded the 1-hr SO₂ SIL at these receptors and at the times when the NAAQS was potentially exceeded.

The combined source inventory and PCRRF were modeled as two separate source groups. The AERMOD post-processing routine MAXDCON can be used to determine the contribution of each user-defined source group (PCRRF) to the high ranked values for a target source group (ALL or all sources), paired in time and space. MAXDCON switches were set for comparison of the 4th ranking concentrations and the threshold (THRESH) set to 7.6 ug/m³ to verify that PCRRF concentrations do not exceed the SIL for those receptor locations and times where the 1-hr SO₂ NAAQS was potentially exceeded. Using this methodology, it was demonstrated that the impacts from the PCRRF were below the SIL at all those receptor locations and times identified as having a potential exceedance of the NAAQS. Hence, the analysis demonstrated that the impacts from the PCRRF would not cause or contribute to an exceedance of the 1-hr SO₂ NAAQS. The details of the methodology used to determine that the Proposed Facility would not cause or contribute to an exceedance of the 1-hr SO₂ standard is presented in Appendix C

5.1 Conclusions

The modeling results presented in this report demonstrate that the permit modification requested for the PCRRF will not cause or contribute to a violation of the 1 hour and 24-hr AAQS for SO₂ or the 24-hr and annual PM_{2.5} AAQS. As a practical matter, the permit modification will result in lower SO₂ emission limits for the PCRRF and, accordingly, there should be reductions in the PCRRF's impacts on ambient air quality. Further, the ambient air quality data obtained from two nearby monitoring stations clearly show that the ambient air quality near the PCRRF has improved significantly over the last few years, even with the PCRRF operating at its currently permitted SO₂ emission rate. The monitoring data demonstrate compliance with the SO₂ AAQS by a wide margin

6.1 AERMOD Electronic Modeling Files

The computer disk included in this section of the report contains all the air quality dispersion modeling analysis electronic data files used to generate the results presented in this report. These electronic data files include the following and are summarized in Tables 6 through 9 and on the attached CD:

- All AERMOD input, output, and plot data files
- All BPIP-PRIME input and output data files
- Meteorological files

Table 6 AERMOD Electronic Files for the Modeling Analysis

Input Data File Name	Output Data File Name	Plot File Name	Averaging Period /Pollutant	Receptor Grid File
PIN06.INP	PIN06.OUT	PIN06.DAT	1-hr, SO ₂	PINELLAS. REC
PIN07.INP	PIN07.OUT	PIN07.DAT	1-hr, SO ₂	PINELLAS. REC
PIN08.INP	PIN08.OUT	PIN08.DAT	1-hr, SO ₂	PINELLAS. REC
PIN09.INP	PIN09.OUT	PIN09.DAT	1-hr, SO ₂	PINELLAS. REC
PIN10.INP	PIN10.OUT	PIN10.DAT	1-hr, SO ₂	PINELLAS. REC
PIN08PM.INP PINRS24b5yr.ADI	PIN08PM.OUT PINRS24b5yr.ADO		24-hr,Annual PM _{2.5} 24-HR SO ₂ Cumulative	PINELLAS. REC INPUT FILE
MAXDCON FILE				
AERMOD08.ADI	AERMOD08.ADO	AERMOD08.DAT	1-HR SO ₂ Cumulative	INPUT FILE
AERMOD5yr.ADI	AERMOD5yr.ADO	AERMOD09.DAT	1-HR SO ₂ Cumulative	INPUT FILE

Table 7 Electronic Files for Downwash Analyses

Analysis	Input File Name	Output File Name	
AERMOD BPIP	PINE2B.BPI	PINE2B.PRO	PINE2B.SUP

Table 8 Meteorological Files Used for the Air Quality Dispersion Modeling Analysis

Meteorological File Name	Year
TPA1M2006.SFC\PLF	2006
TPA1M2007.SFC\PLF	2007
TPA1M2008.SFC\PLF	2008
TPA1M2009.SFC\PLF	2009
TPA1M2010.SFC\PLF	2010

Table 9 AERMAP Files Used for the Receptor Elevations

Meteorological File Name	Description
6368647.TFW	World File for NED Data
6368647.TIF	NED Data
AERMAP-RECEPTORS.INP	AERMAP Input File
AERMAP-SRC.INP	AERMAP Input File for Source
PINELLAS.REC	AERMAP Elevation File

**Appendix A – Pinellas County Regional Source Analysis – 20D
Screening Listing**

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.
 No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero
 Eliminated Duplicate Sources
 NO PTE Not Modeled
 INCLUDED IN MODELING

Pinellas Stack
335.273 3084.303

UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM NOrth (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas (km)	20D (km)	Modeling Required (Q x 1.2)
570082	GULF SULPHUR SERVICES - HOOKER'S PT SITE	358	3090	3	Three (3) Truck Loading Stations	ACTIVE					
570082	GULF SULPHUR SERVICES - HOOKER'S PT SITE	358	3090	4	Eight (8) Storage Tanks	ACTIVE		0	23.4	468.6	N
570085	CENTRAL FLORIDA PIPELINE TAMPA TERMINAL	358	3089	18	175 HP Clarke fire pump	ACTIVE		1.6			
570085	CENTRAL FLORIDA PIPELINE TAMPA TERMINAL	358	3089	19	18.5 HP Deutz Diesel Corp. Pump	ACTIVE		0.2			
570085	CENTRAL FLORIDA PIPELINE TAMPA TERMINAL	358	3089	20	158 HP Deutz Diesel Corp. Air Compressor	ACTIVE		1.4			
570085	CENTRAL FLORIDA PIPELINE TAMPA TERMINAL	358	3089	21	47.5 HP Gimmer Schmidt Air Compressor	ACTIVE		0.4			
570087	CORES LAB STRUCTURES-TAMPA	363	3098.59	1	CCB Plant-silo(gray cement)2 compartments w/central baghouse	ACTIVE					
570087	CORES LAB STRUCTURES-TAMPA	363	3098.59	2	CEMENT SILO COMPARTMENT #2 WITH CP-305-839 PULSE JET	ACTIVE					
570087	CORES LAB STRUCTURES-TAMPA	363	3098.59	3	CCB Plant-batcher/mixer w/individual baghouse	ACTIVE					
570088	HALEY, JAMES A. VETERAN'S HOSPITAL TAMPA	359.6	3104.1	2	Three boilers	ACTIVE		3.6	23.2	464.1	N
570089	ST. JOSEPH'S HOSPITAL	353.3	3095.9	2	WASTE INCINERATOR	ACTIVE	2.36	9.91			
570089	ST. JOSEPH'S HOSPITAL	353.04	3095.09	3	COGENERATION PLANT #1	ACTIVE		0.04			
570089	ST. JOSEPH'S HOSPITAL	353.3	3095.9	5	BOILER #2	INACTIVE					
570089	ST. JOSEPH'S HOSPITAL	353.3	3095.9	6	BOILER #3	ACTIVE		0.2			
570089	ST. JOSEPH'S HOSPITAL	353.3	3095.9	7	BOILER #4	ACTIVE		0.2			
570089	ST. JOSEPH'S HOSPITAL	353.3	3095.9	8	BOILER #2 (2004)	ACTIVE		0.16			
570090	MASTER - HALCO, INC.	368.2	3094.6	1	Steel Fence Zinc Galvanizing Operation	ACTIVE		10.51	21.4	428.7	N
570097	BONSAL AMERICAN	363.6	3098.5	1	ROTARY KILN DRYER	ACTIVE	0.011	0.04			
570097	BONSAL AMERICAN	363.6	3098.1	3	TYPE I WHITE CEMENT SILO NO. 1	INACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	1	3 250HP FIRETUBE NORTH AMERICAN BOILERS #4-3250	INACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	2	3 250HP FIRETUBE NORTH AMERICAN BOILERS #4-3250	INACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	3	3 250HP FIRETUBE NORTH AMERICAN BOILERS #4-3250	INACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	4	TANK 1	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	5	TANK 2	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	6	TANK 3	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	7	TANK 4	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	8	TANK 5	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	9	TANK 6	ACTIVE					
570100	GULF SULPHUR - PORT SUTTON SITE	361.1	3086.9	10	THREE TRUCK LOADING RACKS	ACTIVE					
570119	GULF COAST METALS	364.7	3093.7	3	WIRE RECLAIMER W/TURBULATOR RING AND AFTERBURNER	INACTIVE					
570119	GULF COAST METALS	364.7	3093.6	4	HOLDING FURNACE	ACTIVE	0.005	0.015			
570119	GULF COAST METALS	364.7	3093.6	5	ALUMNUM ROTARY FURNACE #1	ACTIVE	0.002	0.01			
570119	GULF COAST METALS	364.7	3093.6	6	ALUMNUM ROTARY FURNACE #2	ACTIVE	0.003	0.02			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.196	3092.208	1	UNIT #1 - THE WEST MOST UNIT.	INACTIVE	42.5	186.2	30.9	617.2	N
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.196	3092.208	2	JNIT #2 - SECOND WEST MOST UNIT. BURNS MUNICIPAL WASTE ONLY	INACTIVE	42.5	186.2			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.196	3092.208	3	UNIT #3 - 3RD WESTMOST UNIT - BURNS MUNICIPAL WASTE.	INACTIVE	42.5	186.2			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.196	3092.208	4	UNIT #4 - EAST MOST UNIT. BURNS MUNICIPAL WASTE.	INACTIVE	42.5	186.2			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	103	Municipal Waste Combustor & Auxiliary Burners-Unit 1	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	103	Municipal Waste Combustor & Auxiliary Burners-Unit 1	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	104	Municipal Waste Combustor & Auxiliary Burners-Unit 2	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	104	Municipal Waste Combustor & Auxiliary Burners-Unit 2	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	105	Municipal Waste Combustor & Auxiliary Burners-Unit 3	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	105	Municipal Waste Combustor & Auxiliary Burners-Unit 3	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	106	Municipal Waste Combustor & Auxiliary Burners-Unit 4	ACTIVE	105.02	115			
570127	CITY OF TAMPA MCKAY BAY RTE FACILITY	360.2	3092.21	106	Municipal Waste Combustor & Auxiliary Burners-Unit 4	ACTIVE	105.02	115			
570141	MACDILL USAFB	355	3080.6	2	BOILER #1 - 8.4 MMBTU/HR KEWANEE STEAM BOILER	INACTIVE	0.0048	0.02			
570141	MACDILL USAFB	353.5	3081.5	4	BOILER #2 - 8.4 MMBTU/HR KEWANEE STEAM BOILER	INACTIVE	0.0048	0.02			
570141	MACDILL USAFB	353.5	3081.5	5	BOILER #3 - 8.4 MMBTU/HR KEWANEE STEAM BOILER	INACTIVE	0.0048	0.02			
570141	MACDILL USAFB	353.5	3081.5	11	TWO DIESEL-FIRED COSMODYNE 174 HP GENERATORS	INACTIVE		3.2			
570141	MACDILL USAFB	353.5	3081.5	13	Six Stationary Emergency Generators (JICCEN)	ACTIVE		3			
570141	MACDILL USAFB	353.5	3081.5	14	Three Stationary Emergency Generators (USSOCOM)	ACTIVE		1.1			
570141	MACDILL USAFB	353.5	3081.5	15	Stationary Emergency Generator (Medical Clinic)	ACTIVE		0.4			
570150	CARMEUSE LIME & STONE, INC. - TPA	362.9	3084.7	1	QUICKLIME RAILCAR UNLOADING FACILITY - SILO #1, EAST.	INACTIVE					
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	1	INTERNAL COATING, LINE 1 & 2 (Includes RTO Test Data)	ACTIVE		0.1			
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	2	EXTERNAL COATING, LINE 1 & 2	ACTIVE					
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	4	BASE COATING, LINE 2	ACTIVE					
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	5	0.1 MMBTU/HR NATURAL GAS SLUDGE DRYER	INACTIVE					
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	6	INTERNAL COATING, LINE 3	ACTIVE					
570160	BALL METAL BEVERAGE CONTAINER CORP.	362	3103.2	7	EXTERNAL COATING, LINE 3	ACTIVE					
570163	GRIFFIN INDUSTRIES	364	3096.4	1	62.76 MMBTU/HR BOILER	INACTIVE	0.02				
570163	GRIFFIN INDUSTRIES	364	3096.4	2	31.38 MMBTU/HR BOILER - FIRED W/ NAT GAS	INACTIVE	0.02				
570163	GRIFFIN INDUSTRIES	364.1	3096.4	3	Rendering Operation	ACTIVE					
570171	SPEEDLING, INC.	354.01	3062.02	1	CLEAVER BROOKS 250 HP BOILER USING FUEL OIL NO. 2	INACTIVE	3.2		31.3	625.2	N
570171	SPEEDLING, INC.	354.01	3062.02	2	300HP CLEAVER BROOKS BOILER	INACTIVE	3.81	16.7			
570171	SPEEDLING, INC.	354.1	3062.2	4	300 HP Hurst Boiler & Welding Co., Inc., boiler	ACTIVE		2.78			
570180	CAST-CRETE SEFFNER ADMIN & MFG FACILITY	371.09	3099.02	3	200HP BOILER	INACTIVE					
570185	PREFERRED MATERIALS TAMPA FAC. 0570185	363.2	3098.1	2	TRUCK LOADOUT	INACTIVE		0	38.7	774.5	N
570223	APAC-SE INC. CENTRAL FLORIDA DIV.	364	3098.1	2	DRUM MIX ASPHALT PLANT	INACTIVE	39.55	79.1	31.1	623.0	N
570223	APAC-SE INC. CENTRAL FLORIDA DIV.	364	3098.1	101	320 Diesel Engine and 100 KW Power Generator	ACTIVE		1.2			
570223	APAC-SE INC. CENTRAL FLORIDA DIV.	364	3098.1	102	ASTEC 500 TPH DOUBLE BARREL DRUM MIXER	ACTIVE		21.8			
570223	APAC-SE INC. CENTRAL FLORIDA DIV.	364	3098.1	104	Asphalt Shingle Grinder Engine	ACTIVE		0.2			
570224	HARSCO MINERALS	362.2	3085.5	1	Slag Rotary Dryer	ACTIVE		13.2	31.9	637.4	N
570252	CEMEX PORT SUTTON TAMPA	358.8	3086.9	6	Ship Loading from Trucks	ACTIVE		0.6			
570254	VERTIS, INC.	350.3	3086.4	1	Press Lines A and F and Afterburner 1 (ink+fountain solution)	INACTIVE		0.6	23.7	473.4	N

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.

No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero

Eliminated Duplicate Sources

NO PTE Not Modeled

INCLUDED IN MODELING

Pinellas Stack
335.273 3084.303

UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM Nrh (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas (km)	20D (km)	Modeling Required (Q x 1.2)
570254	VERTIS, INC.	350.3	3086.4	5	Press Lines D, E, G & Afterburner 2 (Ink+ fountain solution)	INACTIVE					
570254	VERTIS, INC.	350.3	3086.4	6	Heatset for Printing Press Lines A, D, E, G, H, and I w/ RTO	CONSTRN					
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	1	Municipal Waste Combustor & Auxiliary burners-Unit #1	ACTIVE	32.86	143.9	15.2	303.5	N
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	1	Municipal Waste Combustor & Auxiliary burners-Unit #1	ACTIVE	32.86	143.9			
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	2	Municipal Waste Combustor & Auxiliary burners-Unit #2	ACTIVE	32.86	143.9			
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	2	Municipal Waste Combustor & Auxiliary burners-Unit #2	ACTIVE	32.86	143.9			
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	3	Municipal Waste Combustor & Auxiliary burners-Unit #3	ACTIVE	32.86	143.9			
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	3	Municipal Waste Combustor & Auxiliary burners-Unit #3	ACTIVE	32.86	143.9			
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	107	Municipal Waste Combustor & Auxiliary Burners - Unit #4	ACTIVE					
570261	HILLSBOROUGH CTY. RRF	368.2	3092.7	107	Municipal Waste Combustor & Auxiliary Burners - Unit #4	ACTIVE					
570286	TAMPA SHIP, LLC	358	3089	5	DIESEL COMPRESSORS	ACTIVE		431.7	34.0	679.6	N
570293	STAR PACKAGING CORPORATION	350.6	3082.2	1	FLEXOGRAPHIC PRINTING FACILITY: TWO (2) PRESSES	ACTIVE		12	23.2	464.1	N
570296	FCC ENVIRONMENTAL, LLC	389	3098	1	CLEAVER BROOKS MODEL CB-500 STEAM BOILER	INACTIVE	7.91				
570296	FCC ENVIRONMENTAL, LLC	389	3098	2	BORN ENGINEERING HOT OIL HEATER	ACTIVE		76.55			
570296	FCC ENVIRONMENTAL, LLC	389	3098	3	HYWAY HOT OIL HEATER FIRED ON NATURAL GAS.	INACTIVE	0.01				
570320	DART CONTAINER CORP. OF FLORIDA	384.9	3098.2	1	Boiler #3 - 10.5 MMBtu/hr Model 3LG	ACTIVE					
570320	DART CONTAINER CORP. OF FLORIDA	384.9	3098.2	2	Boiler #2 - 10.5 MMBtu/hr ORR & SEMBOVER POWERMASTER BOILER	INACTIVE					
570320	DART CONTAINER CORP. OF FLORIDA	384.9	3098.2	3	Boiler #1 - 21 MMBtu/hr Model CB400-500	ACTIVE					
570320	DART CONTAINER CORP. OF FLORIDA	384.9	3098.2	6	Boiler #4 - 25 MMBtu/hr Model CB200-600	ACTIVE		5.5			
570320	DART CONTAINER CORP. OF FLORIDA	384.9	3098.2	7	Boiler #2R - 21 MMBtu/hr Model CP200-500	ACTIVE		4.6			
570321	MANTUA MANUFACTURING CO.	364.7	3092.5	2	PYROLYSIS FURNACE W/INTEGRATED AFTERBURNER	ACTIVE	3.89	1.62	51.5	1030.7	N
570324	TAMPA STEEL ERECTING COMPANY	362.1	3089.2	2	MISC VOC SOURCES	INACTIVE					
570342	ZIPPERER'S AGAPE MORTUARY & CREMATORY	363	3064.7	1	Human Crematory-pre 1989 model upgraded	ACTIVE		0	27.3	545.4	N
570370	PARADISE, INC.	388.5	3099	1	BOILER NO. 1, 20.9 MMBtu/hr, TITUSVILLE MODEL NO. 550	ACTIVE		0.009			
570370	PARADISE, INC.	388.5	3099	2	BOILER NO. 2, 20.9 MMBtu/hr, TITUSVILLE MODEL NO. 550	ACTIVE		0.009			
570370	PARADISE, INC.	388.5	3099	3	BOILER NO. 3, 25.1 MMBtu/hr, YORK-SHIPLEY MODEL SPHC 600-N12	ACTIVE		0.009			
570370	PARADISE, INC.	388.5	3099	4	BOILER NO. 4, 8.37 MMBtu/hr, CLEAVER BROOKS	ACTIVE		0.009			
570370	PARADISE, INC.	388.5	3099	5	CANDIED FRUIT MANUFACTURING FACILITY	ACTIVE	41.2	18.6			
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	1	WASTEWATER TREATMENT PLANT SLUDGE DRYER TRAIN NO. 2	ACTIVE		18.636	55.2	1104.4	N
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	2	WASTEWATER TREATMENT PLANT SLUDGE DRYER TRAIN NO. 3	ACTIVE					
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	3	BUILDING FUGITIVES AND ODOR CONTROL SYSTEM NO. 1	ACTIVE					
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	4	BUILDING FUGITIVES AND ODOR CONTROL SYSTEM NO. 2	ACTIVE					
570373	HOWARD F. CURREN AWT PLANT	358.25	3089.62	12	4 EMERGENCY DIESEL GENERATORS	ACTIVE					
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	17	Engine 1 with normal 2.9 MW generator	ACTIVE	0.077	0.25			
570373	HOWARD F. CURREN AWT PLANT	364	3089.5	18	Engine 2 with normal 2.9 MW generator	ACTIVE	0.077	0.25			
570412	VULCAN TAMPA SALES YARD I	359.1	3086.9	1	SHIP HOLD	INACTIVE					
570412	VULCAN TAMPA SALES YARD I	359.1	3086.9	2	SHIP UNLOADING CONVEYOR/STACKER/HOPPER	INACTIVE					
570412	VULCAN TAMPA SALES YARD I	359.1	3086.9	3	FRONTEND LOADER TO STORAGE PILES	INACTIVE					
570412	VULCAN TAMPA SALES YARD I	359.1	3086.9	4	FRONTEND LOADER TO TRUCKS	INACTIVE					
570415	NEBRASKA PRINTING - TAMPA FACILITY	350.7	3085.1	1	LITHOGRAPHIC PRINTING FACILITY	ACTIVE		0	24.0	479.4	N
570417	EVERGREEN PACKAGING PLANT CITY FACILITY	391.7	3099.3	2	FLAME TREATERS	INACTIVE	0.0003	0.0009			
570417	EVERGREEN PACKAGING PLANT CITY FACILITY	391.7	3099.3	6	SEALERS (6)	INACTIVE	0.0008	0.0035			
570437	NEWSPAPER PRINTING COMPANY, INC.	350	3085.5	2	HEATSET PRESSES WITH OXIDIZERS	ACTIVE		0	58.4	1167.7	N
570438	FGTC - PLANT CITY, STATION 30	391.97	3106.63	1	COMPRESSOR TURBINE NO. 3001	ACTIVE		1.6			
570438	FGTC - PLANT CITY, STATION 30	391.97	3106.63	2	COMPRESSOR TURBINE NO. 3002	ACTIVE		1.6			
570438	FGTC - PLANT CITY, STATION 30	391.9	3106.6	3	COMPRESSOR TURBINE NO. 3003	ACTIVE		1.9			
570442	GULF MARINE REPAIR/HENDRY CORP.	360.3	3091.9	3	Grnt Blasting including Diesel Compressors	ACTIVE		5.1	60.9	1217.2	N
570455	PASCO TERMINALS, INC.	359.07	3087.03	1	TWO (2) MOLTEN SULFUR TRUCK LOADING STATIONS	ACTIVE		9.4			
570455	PASCO TERMINALS, INC.	359.07	3087.03	8	TWO (2) 250 HP NATURAL GAS-FIRED STEAM BOILERS	INACTIVE	0.0063	0.02	26.2	523.1	N
570459	BAUSCH & LOMB INCORPORATED	366.39	3105.75	2	2 NATURAL GAS FIRED BOILERS	INACTIVE		0.08	24.0	479.1	N
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	4	Sheet Boiler #1	ACTIVE	0.02	0.07			
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	12	Sheet Boiler #2	ACTIVE	0.02	0.07			
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	15	PREHEATER #1	INACTIVE					
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	16	PREHEATER #2	INACTIVE					
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	17	DRYER #1	INACTIVE					
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	18	DRYER #2	INACTIVE					
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	28	Pipe Boiler #1	ACTIVE	0.02	0.09			
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	29	Pipe Boiler #2	ACTIVE	0.02	0.09			
570460	JAMES HARDIE BUILDING PRODUCTS, INC.	387.06	3089.52	30	Sheet Boiler #3	ACTIVE	0.02	0.07			
570461	BLACKLIDGE EMULSIONS PLANT #3	359.5	3093.2	4	NATURAL GAS HEATER	CONSTRN	0.013	0.1	52.0	1041.0	N
570474	T-R DRUM & FREIGHT CO.	395.31	3100	3	STEEL DRUM INCINERATOR	ACTIVE		0	25.8	516.2	N
570477	MARTIN GAS SALES, INC.	358.93	3086.81	2	SHIP UNLOADING OPERATION	ACTIVE	0.07	0.02	62.1	1241.1	N
570477	MARTIN GAS SALES, INC.	358.93	3086.81	3	TRUCK LOADING OPERATION	ACTIVE	0.02	0.04			
570477	MARTIN GAS SALES, INC.	358.93	3086.81	4	Tank No. 13	ACTIVE	0.21	0.27			
570480	UNIVERSITY OF SOUTH FLORIDA	360.77	3104.76	1	Boiler #5 (SE)	ACTIVE					
570480	UNIVERSITY OF SOUTH FLORIDA	360.77	3104.76	2	Boiler #2 (SW)	INACTIVE					
570480	UNIVERSITY OF SOUTH FLORIDA	360.77	3104.76	3	Boiler #3 (NE)	ACTIVE					
570480	UNIVERSITY OF SOUTH FLORIDA	360.77	3104.76	7	Boiler #6 (SW) (Replacement of Boiler #2)	ACTIVE					
570480	UNIVERSITY OF SOUTH FLORIDA	360.77	3104.76	8	2 TEMPORARY BOILERS	INACTIVE					
570854	HILLSBOROUGH CNTY SOUTHEAST LANDFILL	383.59	3072.78	1	MSW Landfill w/LFG Collector & Control (Flare) System	ACTIVE		7.5	32.7	653.8	N

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.

No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero

Eliminated Duplicate Sources

NO PTE, Not Modeled

INCLUDED IN MODELING

Pinellas Stack

335.273 3084.303

UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM Nth (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas		Modeling Required (Q x 1.2)	
									(km)	(km)		
570854	HILLSBOROUGH CNTY SOUTHEAST LANDFILL	383.59	3072.78	2	Existing Stationary Non-Emergency CI RICE Engines < 300 HP	ACTIVE						
570854	HILLSBOROUGH CNTY SOUTHEAST LANDFILL	383.59	3072.78	5	Tire Shredding Operations (Insignificant Emission Activity)	ACTIVE						
570854	HILLSBOROUGH CNTY SOUTHEAST LANDFILL	383.59	3072.78	6	Emergency Back-up Diesel Engines (3) (NSPS Subpart III)	ACTIVE						
570854	HILLSBOROUGH CNTY SOUTHEAST LANDFILL	383.59	3072.78	7	Existing Stationary SI RICE Engines	ACTIVE						
571029	INTERNATIONAL PAPER CO. PLANT CITY	391.22	3095.89	2	York Shipley Boiler	ACTIVE		7.5	49.7	993.4	N	
571151	INTERNATIONAL PAPER CO.	362.8	3098.3	2	Boiler	ACTIVE		0.1	57.1	1142.7	N	
571185	CORN SYRUP DISTRIBUTION FACILITY	348.3	3085.4	1	500 HP BOILER	ACTIVE		0.06132				
571205	STOROPACK, INC.-TAMPA DIVISION	363.38	3093.22	1	POLYSTYRENE EXPANDERS	ACTIVE		0.06132	30.9	617.6	N	
571209	THE LANE CONSTR CO.	359.86	3088.09	1	Hot mix asphalt plant	ACTIVE	19.2	0.07				
571209	THE LANE CONSTR CO.	359.86	3088.09	2	Hot Oil Heater	ACTIVE		0.07	13.1	261.5	N	
571209	THE LANE CONSTR CO.	359.86	3088.09	5	320 Diesel Engine and 100 KW Power Generator	INACTIVE	0.92					
571209	THE LANE CONSTR CO.	359.87	3088.09	9	335 HP Diesel Engine for the Portable RAP Crusher	CONSTRN						
571217	SEA 3 OF FL, INC. (TAMPA LPG TERMINAL)	360.1	3087.1	3	Two Algas-SDI Boilers (13.3 MMBtu/hr each)	ACTIVE		70.38	24.9	497.7	N	
571217	SEA 3 OF FL, INC. (TAMPA LPG TERMINAL)	360.1	3087.1	4	Cleaver Brooks Boiler (33.5 MMBtu/hr)	ACTIVE		0.02				
571240	CARGILL TAMPA SITE	359.75	3090.37	1	FLUID-BED SALT DRYER/COOLER	ACTIVE		2.49				
571242	NEW NGC, INC., APOLLO BEACH	364.7	3075.63	1	Imp Mill #1	ACTIVE		2.51	25.0	499.7	N	
571242	NEW NGC, INC., APOLLO BEACH	364.7	3075.63	2	Imp Mill #2	ACTIVE						
571242	NEW NGC, INC., APOLLO BEACH	364.7	3075.63	3	Imp Mill #3	ACTIVE						
571242	NEW NGC, INC., APOLLO BEACH	364.7	3075.63	4	Imp Mill #4	ACTIVE						
571242	NEW NGC, INC., APOLLO BEACH	364.7	3075.63	5	Kiln	ACTIVE		41.3				
571268	CENTURYLINK QCC-TAMPADATA CENTER	367.14	3091.8	1	Seven Diesel Powered Generators	ACTIVE		83.7	30.7	613.6	N	
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	1	Cleaver Brooks Model No. CBLE 200-400 400HP Boiler #B1E(SW)	ACTIVE		0	32.7	654.7	N	
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	2	Cleaver Brooks Model No. CBLE 200-400 400HP Model #B2E(SE)	ACTIVE						
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	3	Cleaver Brooks Model No. CBLE 200-400 400HP Id# 3 (NW)	ACTIVE						
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	4	Cleaver Brooks Model No. CBLE 200-400 400HP Id# 4 (NE)	INACTIVE						
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	5	MRC#1 Generator	ACTIVE		0.08				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	6	MRC #2 Generator	ACTIVE		0.08				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	7	MCC #1 Generator	ACTIVE		0.09				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	8	CEP #1 Generator	ACTIVE		0.07				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	9	CEP#2 Generator	ACTIVE		0.07				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	10	CEP#3 Generator	ACTIVE		0.07				
571269	H. LEE MOFFITT CANCER CENTER	360.35	3105.08	11	MCC#2 Generator	ACTIVE		0.46	32.6	651.3	N	
571279	FGTC STATION NO. 27, HILLSBOROUGH CNTY	372.16	3102.41	1	FGTC Engine 2701 - 7200 bhp gas turbine compressor engine	ACTIVE	1.7	7.5				
571279	FGTC STATION NO. 27, HILLSBOROUGH CNTY	372.16	3102.41	2	FGTC Engine 2702 - 7200 bhp gas turbine compressor engine	ACTIVE	1.7	7.5				
571279	FGTC STATION NO. 27, HILLSBOROUGH CNTY	372.16	3102.41	3	Miscellaneous Support Equipment	INACTIVE						
571290	TITAN AMERICA, LLC	359.94	3087.81	8	Five 440 HP diesel fired air compressors	ACTIVE		15	41.1	821.8	N	
571290	TITAN AMERICA, LLC	359.94	3087.81	9	One 480 HP diesel fuel fired electric generator	ACTIVE		8.4				
571290	TITAN AMERICA, LLC	359.94	3087.81	10	One 1200 HP Diesel Fuel Fired Generator	ACTIVE		1.8				
571290	TITAN AMERICA, LLC	359.94	3087.81	13	One 475 HP Diesel Fuel Fired Air Compressor	CONSTRN		9				
571290	TITAN AMERICA, LLC	359.94	3087.81	22	Ship Loading Portable Blowers	CONSTRN		1.8				
571301	L.V. THOMPSON, INC (TAMCO)	361.61	3092.19	1	Metal Coil Coating Line with Fume Incinerator	ACTIVE		1.5				
571320	HILLS, CO. H2O RESOURCE SVCS. - NWRMF	342.27	3106.34	3	Sludge Dryer Train No. 1 (south)	ACTIVE	0.013	0.06	27.5	549.9	N	
571320	HILLS, CO. H2O RESOURCE SVCS. - NWRMF	342.27	3106.34	4	Sludge Drying Train No. 2 (north)	ACTIVE	0.013	0.06				
571323	FARKAS LAND CLEARING & DEVELOPMENT	384.3	3090.2	1	Air Curtain Incinerator	ACTIVE		0.12	23.1	462.4	N	
571326	SEPARATION TECHNOLOGIES	361.9	3075	2	Ammonia Removal System	ACTIVE		1.8	49.4	987.6	N	
571328	ORION MARINE CONSTRN	349.62	3082.64	4	350 HP ATLAS COPCO COMPRESSOR	ACTIVE		0.01	28.2	564.1	N	
571337	TAMPA PAVEMENT CONS., A SUB	364.3	3097.64	3	Diesel Engine and Power Generator for RAP Crusher	ACTIVE		0.01	14.4	288.9	N	
571337	TAMPA PAVEMENT CONS., A SUB	364.3	3097.64	4	Drum Mix Asphalt Plant (225 TPH)	ACTIVE		0.94				
571339	TRINITY MATERIALS-TAMPA TERMINAL	360.31	3087.72	11	Generators for Cement Unloading	CONSTRN		14.5	31.9	638.9	N	
571342	BLACKLIDGE TAMPA PLANT 11	363.72	3087.37	3	Fuel Oil Heaters	ACTIVE		7.7	25.3	505.4	N	
571402	ANCHOR SANDBLASTING AND PAINTING, INC	361.15	3089.42	3	Diesel Engines (Baghouse, Powerscreen, Dryer Engines)	ACTIVE		4.41	28.6	572.2	N	
571402	ANCHOR SANDBLASTING AND PAINTING, INC	361.15	3089.42	5	Dryer Burner (Natural Gas Combustion)	ACTIVE		1.9				
571408	CHROMALLOY CASTINGS, TAMPA CORP	349	3100	3	Twenty-two Furnaces for Casting	INACTIVE		0.01	26.4	527.6	N	
571408	CHROMALLOY CASTINGS, TAMPA CORP	349	3100	9	Natural Gas Combustion in the Pre-heat & Wax Burn-Off Ovens	CONSTRN		0.04				
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	1	Thermal De-asphalting (TDA) Furnace	CONSTRN		0.07	20.9	417.0	N	
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	2	Hydro-finishing (HDF) Furnace	CONSTRN		0.04				
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	3	Heat Recovery Steam Generator (HRSG)	CONSTRN		0.07				
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	4	Emergency Furnace	CONSTRN		0.005				
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	5	Steam Reforming	CONSTRN		0.01				
571421	NEXLUBE TAMPA, LLC	361.48	3087.2	6	Emergency Flare	CONSTRN		0.005				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	1	BOILER #1 300 HP	ACTIVE	9.23	40.43	61.29	26.4	527.3	N
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	2	BOILER #2 300 HP	ACTIVE	9.23	40.43				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	3	CLEAVER-BROOKS CPT 500-50 ASPHALT HEATER NO. 1	INACTIVE	1.21	5.29				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	4	CLEAVER-BROOKS CPT 500-50 ASPHALT HEATER NO. 2	INACTIVE	1.21	5.29				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	5	CLEAVER-BROOKS CPT 500-50 ASPHALT HEATER NO. 3	INACTIVE	1.21	5.29				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	13	HOT OIL HEATER NO. 4	ACTIVE	0.65	2.83				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	14	HOT OIL HEATER NO. 5	ACTIVE	0.65	2.83				
810001	TRSNMONT GNE PORT MANATEE TERMINAL	347.97	3057.73	15	2 pumps fired with diesel each rated at 250 HP	INACTIVE	0.52	1.35				
810007	TROPICANA, BRADENTON	346.76	3041.34	1	CITRUS PEEL DRYER #1 W/WHE	ACTIVE	92.4	27.7	29.5	589.0	N	
810007	TROPICANA, BRADENTON	346.76	3041.34	2	CITRUS PEEL DRYER #2 W/WHE	ACTIVE	8.8	38.5				

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.
 No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero
 Eliminated Duplicate Sources

NO PTE Not Modeled
 INCLUDED IN MODELING
 Pinellas Stack
 335.273 3084.303
 UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM Nth (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas (km)	20D (km)	Modeling Required (Q x 1.2)	
1030018	PINELLAS COUNTY ANIMAL SERVICES	321.82	3086.01	2	250 LB/HOUR MODEL BLP-250 PATHOLOGICAL INCINERATOR	INACTIVE		0	8.4	168.3	N	
1030018	PINELLAS COUNTY ANIMAL SERVICES	321.64	3085.65	3	Animal Crematory-primary/2ndary chmbr NG terrpM&RopactM400lbs/hr	ACTIVE	1.5	6.57				
1030026	R.E. PURCELL CONSTR CO., INC.	326.43	3087.64	1	DRUM MIX ASPHALT PLANT	ACTIVE	15.42	34.22	13.7	274.0	N	
1030026	R.E. PURCELL CONSTR CO., INC.	326.43	3087.64	1	DRUM MIX ASPHALT PLANT	ACTIVE	15.42	34.22				
1030026	R.E. PURCELL CONSTR CO., INC.	326.43	3087.64	2	OIL HEATING SYSTEM	ACTIVE	1.42	6.22				
1030026	R.E. PURCELL CONSTR CO., INC.	326.43	3087.64	4	Portable Reclaimed Asphalt Pavement (RAP) Crushing System	ACTIVE		0.6	9.5	189.0	N	
1030035	DIRECTORS SERVICES-PINELLAS CO	334.86	3077.57	1	IEE MODEL IE-43 CREMATORY, NORTH UNIT NO. B	ACTIVE			6.7	134.9	N	
1030035	DIRECTORS SERVICES-PINELLAS CO	334.86	3077.57	2	B&L MODEL PHOENIX IV CREMATORY, SOUTH UNIT NO. A	ACTIVE						
1030044	SUNCOAST PAVING -TARPON SPRINGS FACILITY	325.98	3116.94	1	Hot-Mix Asphalt Batch Plant	ACTIVE	24	37.44	33.9	678.7	N	
1030045	CEMEX LARGO 2 FACILITY	325.97	3087.09	1	CCB Plant-PIPE silo (cement) w/silotop baghouse	INACTIVE						
1030045	CEMEX LARGO 2 FACILITY	325.97	3087.09	2	CCB Plant-PIPE silo (flyash) w/silo baghouse	INACTIVE						
1030045	CEMEX LARGO 2 FACILITY	325.97	3087.09	3	CCB Plant-BLOCK silo (cement) w/silo baghouse	INACTIVE						
1030045	CEMEX LARGO 2 FACILITY	330.7	3087.4	4	CCB Plant-RM silo (cement) w/silo baghouse	ACTIVE						
1030045	CEMEX LARGO 2 FACILITY	325.97	3087.09	5	CONCRETE BLOCK PLANT CEMENT BIN NO. 2	INACTIVE			9.7	194.2	N	
1030047	SOUTHEASTERN CREMATORIES	329.2	3089.1	2	INDUSTRIAL EQUIPMENT & ENG., ENET-TEK I-HM PATH. INCIN/AFTERB	INACTIVE	0.0009	0.0399				
1030047	SOUTHEASTERN CREMATORIES	329.2	3089.1	3	IE&E Model IE43 SPP Human Crematory Unit	ACTIVE	0.14	0.62				
1030047	SOUTHEASTERN CREMATORIES	329.2	3089.1	4	IE&E Model IE43-SPP Human Crematory Unit	ACTIVE	0.14	0.62				
1030060	LARGO WASTEWATER TREATMENT PLANT	332.48	3088	1	Two Sewage Sludge Drying Trains with Common Afterburner	ACTIVE	0.000852	0.004	7.7	154.8	N	
1030070	MORTON PLANT MEASE HEALTH CARE	324.7	3099.7	2	Boiler No. 2 (southeast)	INACTIVE	0.5112	2.239	4.6	92.7	N	
1030078	OLDSMAR	335.49	3102.71	1	CENTRAL BAGHOUSE SYSTEM AT CONCRETE BATCH PLT	ACTIVE			18.7	373.6	N	
1030091	MORTON PLANT MEASE HEALTH CARE	322.96	3093.21	5	600 HP CLEAVER BROOKS MODEL CB-600 STEAM BOILER (No. 1)	ACTIVE		3.5				
1030091	MORTON PLANT MEASE HEALTH CARE	322.96	3093.21	6	600 HP CLEAVER BROOKS MODEL CB-600 STEAM BOILER (No. 2)	ACTIVE	1.27	3.5				
1030091	MORTON PLANT MEASE HEALTH CARE	322.96	3093.21	7	NATURAL GAS FIRED CHILLER ENGINE <10 MBtu/hr	ACTIVE		0.008	15.2	303.9	N	
1030095	BAYFRONT MEDICAL CENTER SS	338.04	3072.12	2	MEDICAL WASTE INCINERATOR, 1500 POUNDS PER HOUR,	ACTIVE	1.48	5.4				
1030095	BAYFRONT MEDICAL CENTER SS	338.04	3072.12	3	Boiler	ACTIVE		2.74				
1030095	BAYFRONT MEDICAL CENTER SS	338.04	3072.12	4	Existing Emergency Stationary CI RICE Engine < 500 HP	ACTIVE			12.5	249.9	Y	
1030112	CATALENT PHARMA SOLUTIONS	335.37	3085.89	1	PHARMACEUTICAL MANUFACTURING EQUIPMENT Vented to RTO	ACTIVE			1.6	31.8	N	
1030112	CATALENT PHARMA SOLUTIONS	335.37	3085.89	4	ETHANOL EMISSIONS CONTROLLED BY OXIDIZER	INACTIVE						
1030112	CATALENT PHARMA SOLUTIONS	335.37	3085.89	6	12.6 MMBTUHR. BOILER (NORTH) NAT. GAS OR PROPANE	ACTIVE						
1030112	CATALENT PHARMA SOLUTIONS	335.37	3085.89	7	12.6 MMBTUHR. BOILER (SOUTH) NAT. GAS OR PROPANE	ACTIVE						
1030114	MI METALS - OLDSMAR	336.66	3103.2	1	Secondary Aluminum Production	ACTIVE	0.01	0.05	18.9	379.0	N	
1030117	PINELLAS CO RRF	335.27	3084.31	1	Municipal Waste Combustor & Auxiliary burners - Unit#1	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	1	Municipal Waste Combustor & Auxiliary burners - Unit#1	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	2	Municipal Waste Combustor & Auxiliary burners - Unit#2	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	2	Municipal Waste Combustor & Auxiliary burners - Unit#2	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	3	Municipal Waste Combustor & Auxiliary burners - Unit#3	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	3	Municipal Waste Combustor & Auxiliary burners - Unit#3	ACTIVE	170	745				
1030117	PINELLAS CO RRF	335.27	3084.31	9	Municipal Solid Waste Landfill	ACTIVE						
1030117	PINELLAS CO RRF	335.27	3084.31	10	DIESEL FUEL-FIRED INTERNAL COMBUSTION ENGINE	ACTIVE						
1030117	PINELLAS CO RRF	335.27	3084.31	10	Emergency Generator - Main Lift Station	ACTIVE						
1030117	PINELLAS CO RRF	335.27	3084.31	11	Emergency Fire Pump Engine (EPATier 3 Certified)	ACTIVE						
1030117	PINELLAS CO RRF	335.27	3084.31	12	Emergency Fire Pump Engine (EPATier 3 Certified)	ACTIVE						
1030117	PINELLAS CO RRF	335.27	3084.31	14	Diesel Tub Grinder (primary engine and secondary engine)	ACTIVE			2235	0.0	0.2	Y
1030118	SCHNELLER LLC	334.16	3079.24	2	SCREEN PRINTING OPERATION	ACTIVE			5.2	103.7	N	
1030119	MADICO WINDOW FILMS, INC.	335.45	3071.98	1	COATING LINE NO. 1, WITH CATALYTIC INCINERATOR & MIXING ROOM	INACTIVE						
1030119	MADICO WINDOW FILMS, INC.	335.45	3071.98	2	COATING LINE NO. 2 WITH CATALYTIC INCINERATOR	INACTIVE						
1030119	MADICO WINDOW FILMS, INC.	335.6	3071.9	3	Coating Line Nos. 1 and 2	ACTIVE			12.4	248.1	N	
1030129	PINELLAS PARK FACILITY	329.9	3081.6	1	CRAWFORD MODEL C500P PATHOLOGICAL INCINERATOR NO.1	INACTIVE	0.0001	0.0001				
1030129	PINELLAS PARK FACILITY	329.9	3081.6	2	CRAWFORD MODEL C500P, PATHOLOGICAL INCINERATOR NO.2	INACTIVE	0.0001	0.0001				
1030132	ONESOURCE COIL COATERS, LLC.	331.13	3087.09	1	COIL COATING LINE NO. 1 WITH THERMAL OXIDIZER	ACTIVE	0.009	0.039	5.0	99.9	N	
1030136	PET ANGEL WORLD MEMORIAL PINELLAS	330.57	3080.44	1	Animal Crematory-primary/2ndary chmbrs, NG fired, 75 lb/hr	ACTIVE			6.1	121.7	N	
1030147	SONNY GLASBRENNER, INC.	334.28	3085.94	1	AIR CURTAIN INCINERATOR 12 FT. X 12 FT. X20 FT. LONG PIT	INACTIVE						
1030147	SONNY GLASBRENNER, INC.	334.28	3085.94	3	DIESEL GENERATOR	ACTIVE	1.8	2.8				
1030147	SONNY GLASBRENNER, INC.	334.28	3085.94	5	Diesel Generator	ACTIVE						
1030153	HOWCO ENVIRONMENTAL SERVICES, INC.	333.23	3071.93	3	Oil Recycling Operation	ACTIVE	3.76	16.5	1.9	38.3	N	
1030165	JACOBSEN MANUFACTURING, INC.	333.12	3097.73	1	MOBILE HOME MANUFACTURER, VOC SIP INVENTORY	ACTIVE			12.5	250.8	N	
1030166	IRWIN YACHT & MARINE CORP.	332.68	3086.23	1	FIBERGLASS BOAT MFG; VOC SIP INVENTORY	ACTIVE			3.2	64.6	N	
1030172	WATKINS YACHT, INC.	332.69	3085.82	1	FIBERGLASS BOAT MFG. - VOC SIP INV.	ACTIVE			3.0	59.9	N	
1030175	GAGNE WALLCOVERINGS	327.78	3097.06	1	MFG. PRINTED & LAMINATED WALLCOVERING	ACTIVE			14.8	295.9	N	
1030180	INTERPRINT, INC.	335.02	3084.95	1	HEAT SET WEB LITHOGRAPHIC PRINTING OPERATIONS W/RTO	ACTIVE			0.7	13.9	N	
1030214	LIFOAM INDUSTRIES	328.84	3075.77	3	NG FIRED 400 HP PROCES STEAM BOILER NO. 2 (repl EU 002)	ACTIVE		0.04				
1030217	ETERNAL REST FUNERAL/SUNCOAST CREM, INC	328.2	3101.7	1	HUMAN CREMATORY, INDUSTRIAL EQUIPMENT IE43-PP11	ACTIVE		0.004	10.7	213.7	N	
1030218	M C GRAPHICS, INC. DBA S. ALEXANDER	337.2	3083.2	1	LITHOGRAPHIC PRINTING LINE NO. 1, WITH CATALYTIC INCINERATOR	INACTIVE						
1030218	M C GRAPHICS, INC. DBA S. ALEXANDER	337.2	3083.2	2	Printing Line Nos. 2 and 3	ACTIVE						
1030218	M C GRAPHICS, INC. DBA S. ALEXANDER	337.2	3083.2	3	FUGITIVE VOC EMISSIONS FOR FACILITY	ACTIVE			18.8	375.6	N	

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.

No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero

Eliminated Duplicate Sources

NO PTE Not Modeled

INCLUDED IN MODELING

Pinellas Stack
335,273 3084,303

UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM Nrth (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas (km)	20D (km)	Modeling Required (Q x 1.2)	
1050192	CARPENTER CO., INSULATION DIVISION	397	3101.4	1	Expandable Polystyrene Products Manufacturing Facility	ACTIVE		0	89.6	1791.1	N	
1050208	INDUSTRIAL CONTAINER SERVICE	418.78	3103.58	1	METAL DRUM RECONDITIONING FURNACE	ACTIVE	0.01	0.01	64.1	1281.0	N	
1050210	AMERICOAT CORPORATION	411.37	3096.92	3	BURN-OFF OVEN No. 11	ACTIVE						
1050210	AMERICOAT CORPORATION	411.37	3096.92	21	BURN-OFF OVEN No. 1	INACTIVE			77.1	1542.7	N	
1050215	WOOD MULCH PRODUCTS, INC.	413.56	3099.24	1	WOOD WASTE RECYCLING FACILITY	ACTIVE		0	79.7	1594.0	N	
1050216	RIDGE GENERATING STATION	416.7	3100.54	1	RGS BOILER STACK	ACTIVE	65	284.7				
1050217	MULBERRY COGEN FACILITY	413.6	3080.6	1	Combustion Turbine with HRSG(Phase II, Acid Rain Unit)	ACTIVE	95.1	416.5	83.0	1660.6	N	
1050217	MULBERRY COGEN FACILITY	413.6	3080.6	2	Secondary Boiler	ACTIVE	4.67	20.4				
1050217	MULBERRY COGEN FACILITY	413.6	3080.6	4	Unregulated general purpose engines	ACTIVE						
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.3	1	Combined Combustion Turbine System(Phase II, Acid Rain Unit)	ACTIVE	70	181.2				
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.3	1	Combined Combustion Turbine System(Phase II, Acid Rain Unit)	ACTIVE	70	181.2				
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.3	3	Emergency generators	ACTIVE						
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.3	4	Heating units and engines	ACTIVE						
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.2	6	Simple Cycle Peaking CT	INACTIVE	74.9	16.2				
1050221	AUBURNDALE POWER PARTNERS, LP	420.8	3103.2	6	Simple Cycle Peaking CT	INACTIVE	74.9	16.2				
1050221	AUBURNDALE POWER PARTNERS, LP	421	3103.2	7	170MW Combustion Turbine Configured for Combined Cycle	INACTIVE	10.9	47.7				
1050221	AUBURNDALE POWER PARTNERS, LP	421	3103.2	8	170MW Combustion Turbine Configured for Combined Cycle	INACTIVE	10.9	47.7				
1050221	AUBURNDALE POWER PARTNERS, LP	421	3103.2	9	250 MMBtu Duct burner w/ HRSG (included in EU007)	INACTIVE						
1050221	AUBURNDALE POWER PARTNERS, LP	421	3103.2	10	250 MMBtu Duct Burner w/ HRSG (included in EU008)	INACTIVE						
1050223	TIGER BAY COGENERATION FACILITY	416.25	3069.37	1	Combustion Turbine and Heat Recovery System Generator	ACTIVE	4.86	21.3				
1050223	TIGER BAY COGENERATION FACILITY	416.25	3069.37	1	Combustion Turbine and Heat Recovery System Generator	ACTIVE	4.86	21.3				
1050223	TIGER BAY COGENERATION FACILITY	416.25	3069.37	2	WASTEWATER TREATMENT SYSTEM SPRAY DRYER UNIT W/BAGHOUSE	INACTIVE						
1050223	TIGER BAY COGENERATION FACILITY	416.2	3069.22	3	100 MMBtu/hr Package Steam Boiler	ACTIVE						
1050227	CENT FL CREM POLK CO/ LANIER FUNERAL HM	406.23	3106.36	1	IE&E MODEL IE43-PPII HUMAN CREMATORY INCINERATOR	ACTIVE			42.6	82.3	1646.4	N
1050231	ORANGE COGENERATION FACILITY	418.7	3083	1	Combustion Turbine w/ HRSG, Unit 1 (Phase II Acid Rain Unit)	ACTIVE	1.11	4.87				
1050231	ORANGE COGENERATION FACILITY	418.7	3083	2	Combustion Turbine w/ HRSG, Unit 2 (Phase II Acid Rain Unit)	ACTIVE	1.11	4.87				
1050231	ORANGE COGENERATION FACILITY	418.7	3083	3	Auxiliary Boiler	ACTIVE	0.3	1.3				
1050233	POLK POWER STATION	402.44	3067.36	1	260 MW Combined cycle CT (Phase II Acid Rain Unit)	ACTIVE	518	2269				
1050233	POLK POWER STATION	402.44	3067.36	1	260 MW Combined cycle CT (Phase II Acid Rain Unit)	ACTIVE	518	2269				
1050233	POLK POWER STATION	402.44	3067.36	1	260 MW Combined cycle CT (Phase II Acid Rain Unit)	ACTIVE	518	2269				
1050233	POLK POWER STATION	402.44	3067.36	3	120 MMBtu/HR Auxiliary Boiler	ACTIVE	96	392.6				
1050233	POLK POWER STATION	402.44	3067.36	4	Sulfuric Acid Plant	ACTIVE	35.6	155.3				
1050233	POLK POWER STATION	402.44	3067.36	6	Solid Fuel Gasification System	ACTIVE						
1050233	POLK POWER STATION	402.44	3067.36	7	One or More Emergency Generators	ACTIVE						
1050233	POLK POWER STATION	402.45	3067.35	9	Nominal 165 MW Simple Cycle Turbine No. 2	ACTIVE		20.149				
1050233	POLK POWER STATION	402.45	3067.35	9	Nominal 165 MW Simple Cycle Turbine No. 2	ACTIVE		20.149				
1050233	POLK POWER STATION	402.45	3067.35	10	Nominal 165 MW Simple Cycle Turbine No. 3	ACTIVE	9.2	56.94				
1050233	POLK POWER STATION	402.45	3067.35	10	Nominal 165 MW Simple Cycle Turbine No. 3	ACTIVE	9.2	56.94				
1050233	POLK POWER STATION	402.44	3067.36	13	Nominal 165 MW Simple Cycle Turbine No. 4	ACTIVE	9.5	20.8				
1050233	POLK POWER STATION	402.44	3067.36	14	Nominal 165 MW Simple Cycle Turbine No. 5	ACTIVE	9.5	20.8				
1050234	HINES ENERGY COMPLEX	414.17	3074.1	1	POWER BLOCK 1, CT 1A	ACTIVE	94	23				
1050234	HINES ENERGY COMPLEX	414.17	3074.1	1	POWER BLOCK 1, CT 1A	ACTIVE	94	23				
1050234	HINES ENERGY COMPLEX	414.34	3073.9	2	POWER BLOCK 1, CT 1B	ACTIVE	94	23				
1050234	HINES ENERGY COMPLEX	414.34	3073.9	2	POWER BLOCK 1, CT 1B	ACTIVE	94	23				
1050234	HINES ENERGY COMPLEX	414.17	3074.1	3	Auxiliary Boiler firing natural gas and low sulfur fuel oil	ACTIVE						
1050234	HINES ENERGY COMPLEX	414.4	3073.9	14	POWER BLOCK 2, CT 2A	ACTIVE	105	37				
1050234	HINES ENERGY COMPLEX	414.4	3073.9	15	POWER BLOCK 2, CT 2B	ACTIVE	105	37				
1050234	HINES ENERGY COMPLEX	414.4	3073.9	16	POWER BLOCK 3, CT 3A	ACTIVE	105.6	37				
1050234	HINES ENERGY COMPLEX	414.4	3073.9	17	POWER BLOCK 3, CT 3B	ACTIVE	105.6	37				
1050234	HINES ENERGY COMPLEX	414.17	3074.1	18	Power Block 4, CT 4A	ACTIVE	114.6	75.552				
1050234	HINES ENERGY COMPLEX	414.17	3074.1	19	Power Block 4, CT 4B	ACTIVE	114.6	75.552				
1050239	INSULFOAM	398.03	3101.52	2	300 HP Natural Gas Fired Boiler	ACTIVE			7550.68	69.3	1385.4	Y
1050272	LAKELAND CREMATORY	419.85	3100.98	2	Human Crematory-unit #1 west	ACTIVE	0.08	0.35				
1050276	AERCON FLORIDA, LLC	441.06	3106.67	1	Exempt Johnston Model PFTA 1200-4LG200S process steam boiler	ACTIVE			0	86.2	1724.1	N
1050298	POLK COUNTY NORTH CENTRAL LANDFILL	416.61	3100.47	1	Municipal Solid Waste Landfill with two Candlestick Flares	ACTIVE		127.5				
1050298	POLK COUNTY NORTH CENTRAL LANDFILL	416.81	3100.14	2	STATIONARY DIESEL ENGINES	INACTIVE						
1050298	POLK COUNTY NORTH CENTRAL LANDFILL	416.81	3100.14	4	Diesel Engine Powered Yard Waste Grinder No. 1	ACTIVE	8.54	13.32				
1050298	POLK COUNTY NORTH CENTRAL LANDFILL	416.81	3100.14	5	Diesel Engine Powered Yard Waste Grinder No. 2	ACTIVE	8.54	13.32				
1050312	MASTER CONTAINERS, INC.	404.12	3085.82	2	NATURAL GAS, LP gas (propane), NO. 2 FUEL OIL FIRED BOLER	ACTIVE		5.6				
1050319	CLARK ENVIRONMENTAL INC	403.02	3086.41	1	SOIL THERMAL TREATMENT FACILITY	ACTIVE	84.1	99				
1050320	LAKELAND PLANT	402.03	3106.24	2	NATURAL GAS FIRED OVENS AND HEATERS w/ RTO	ACTIVE		0.1				
1050320	LAKELAND PLANT	402.03	3106.24	3	Paint Hook Cleaning Incinerator	ACTIVE	0.0005	0.002				
1050320	LAKELAND PLANT	402.03	3106.24	4	Sludge Dryer	ACTIVE	0.001	0.003				
1050325	SOUTHERN BAKERIES	403.99	3102.95	1	OVEN No. 1 - LINE 1 CONTINUOUS BREAD BAKING OVEN	ACTIVE						
1050325	SOUTHERN BAKERIES	403.99	3102.95	2	OVEN No. 2 - LINE 2 CONTINUOUS BREAD BAKING OVEN	ACTIVE						
1050325	SOUTHERN BAKERIES	403.99	3102.95	3	OVEN No. 3 - LINE 3 CONTINUOUS BUN BAKING OVEN	ACTIVE						
1050325	SOUTHERN BAKERIES	401.89	3103.4	4	OVEN No. 4 - LINE 4 CONTINUOUS BUN BAKING OVEN	ACTIVE						
1050330	FORT MEADE FOREST PRODUCTS	410.38	3102.8	1	KILN No. 1	ACTIVE		0.018				
1050330	FORT MEADE FOREST PRODUCTS	410.38	3102.8	2	KILN No. 2	ACTIVE		0.018				
1050330	FORT MEADE FOREST PRODUCTS	410.38	3102.8	3	KILN No. 3	ACTIVE		0.018				
1050334	OSPREY ENERGY CENTER	421	3103.2	1	170MW Combustion Turbine Configured for Combined Cycle	ACTIVE	10.9	47.7				
1050334	OSPREY ENERGY CENTER	421	3103.2	2	170MW Combustion Turbine Configured for Combined Cycle	ACTIVE	10.9	47.7				

Pinellas County Regional Source Analysis - 20D Screening Analysis 1-hr 24-hr SO₂

Distance from Pinellas in greater than 60km in bold red.

No Shading are Sources that were not modeled because 1.) Total PTE is less than 20D*1.2, 2.) Inactive source or, 3.) PTE is zero

Eliminated Duplicate Sources

NO PTE Not Modeled

INCLUDED IN MODELING

Pinellas Stack
335.273 3084.303

UTM Zone 17

Facility ID	Site Name	UTM East (km)	UTM Nth (km)	EU ID	EU Description	EU Status	PTE (lb/hr)	PTE (tpy)	Distance from Pinellas (km)	20D (km)	Modeling Required (Q x 1.2)
7770048	BETTER ROADS, INC.	425.01	2963.46	4	Reclaimed Asphalt System	INACTIVE					
								14.5	150.5	3010.4	N
7770073	CLEARWATER ASPHALT PLANT	333.94	3086.12	1	PORTABLE DRUM MIX ASPHALT PLANT	ACTIVE	30.84	22.1			
7770073	CLEARWATER ASPHALT PLANT	333.94	3086.12	2	Portable Reclaimed Asphalt Pavement (RAP) Crushing System	ACTIVE	0.68	0.68			
7770073	CLEARWATER ASPHALT PLANT	333.94	3086.12	3	320 HP Diesel Engine and the 100 KW Power generator (exempt)	ACTIVE	0.92	0.92			
								23.7	2.3	45.1	N
7770143	8001 FRUITVILLE RD., SARASOTA, FL	360.87	3024.7	1	portable crusher CAT 3406 diesel engine	ACTIVE	0.6663	0.695			
7770143	8001 FRUITVILLE RD., SARASOTA, FL	360.87	3024.7	3	relocatable Morbark wood tub grinder CAT 3412 diesel engine	ACTIVE	0.4005	0.418			
7770143	8001 FRUITVILLE RD., SARASOTA, FL	360.87	3024.7	4	John Deere 4045TF150C Em. Generator 100 hp diesel engine	ACTIVE	0.205	0.898			
								2.011	64.9	1297.3	N
7770262	ANGELO'S RECYCLED MTLs-LARGO FACILITY	325.93	3087.38	2	DIESEL GENERATOR	INACTIVE	1.8	2.8			
								0	9.8	196.7	N
7770380	KEARNEY CONSTRN SITE	387.02	3122.07	1	CCB Plant-pugmill/soil augment.w/agg.hopper&conveyr&spraybar	ACTIVE					
7770380	KEARNEY CONSTRN SITE	387.02	3122.07	2	CCB Plant- power unit-soil augmentation plant,diesel RICE	ACTIVE	0.36				
								0	64.1	1281.3	N
7770420		344.95	3119.91	2	Portable Caterpillar -Lima 40KW400 H.P. Generator	INACTIVE	0.53	0.55			
								0	36.9	738.0	N
7771101	ROCK CRUSHER #1	363.51	3092.97	2	NMMP Plant-crusher power unit, diesel RICE, 525 hp	ACTIVE	0.358	0.372			
								0.372	29.5	590.7	N
7774804	THE LANE CONSTRN CORP. PLANT 1	412.5	3097.7	1	RELOCATABLE DRUM MIX ASPHALT PLANT	ACTIVE	23.2	94.1			
7774804	THE LANE CONSTRN CORP. PLANT 1	412.5	3097.7	2	Diesel Electric Generator Set	INACTIVE					
7774804	THE LANE CONSTRN CORP. PLANT 1	412.5	3097.7	4	Portable RAP Crusher Diesel Engine	ACTIVE		0.66			
								94.76	78.4	1567.6	N
7775052	ROCK CRUSHER #2	349.06	3034.64	2	NMMP Plant-crusher power unit, diesel RICE, 470 hp	ACTIVE	0.358	0.372			
7775052	ROCK CRUSHER #2	349.06	3034.64	5	Rock Crusher #5 Engine	INACTIVE					
								0.372	51.5	1030.8	N
7775055	WOODRUFF & SONS, INC. STORAGE SITE	349.06	3034.6	2	DIESEL ENGINE 290 HP	ACTIVE	0.318	0.258			
								0.258	51.6	1031.6	N
7775089	WOODRUFF & SONS, INC.	349.05	3034.68	2	DIESEL ENGINE & GENERATOR	ACTIVE					
								0	51.5	1030.0	N
7775229	CRUSH-IT INC	328	3085.26	2	Crusher Engine	ACTIVE					
								0	7.3	146.7	N
7775279	128 AUTHORITY LANE, SEBRING, HIGHLANDS	455.06	4221.38	2	NMMP Plant-crusher pwrunit,dieselRICE,325 hp,S/NRG612H047979	ACTIVE					
								0	1,143.4	22867.4	N
7775280	APAC SE, INC. - WINTER HAVEN PLANT	423.66	3101.86	1	350 TPH HOT MIX ASPHALT PLANT	ACTIVE	97.7	69.2			
7775280	APAC SE, INC. - WINTER HAVEN PLANT	423.32	3101.9	2	1.2 MMBTU/hr. hot asphalt oil heater (exempt)	ACTIVE					
7775280	APAC SE, INC. - WINTER HAVEN PLANT	423.32	3101.9	3	Portable Reclaimed Asphalt Pavement (RAP) Crushing System	ACTIVE					
								69.2	89.8	1795.8	N
7775300	ROCK CRUSHER #5	348.12	3056.03	3	NMMP Plant-crusher power unit,420 Hp diesel RICE	ACTIVE					
								0	31.1	621.1	N
7775345	MOSAIC'S PEEPLE'S ROAD, FT MEADE	326.34	3085.9	2	NMMP Plant-crusher power unit, diesel RICE, 437 hp	ACTIVE					
								0	9.1	181.5	N
7775424	AJAX PAVING INDUSTRIES TAMPA PLANT	362.86	3085.66	5	Diesel Engine and Power Generator for RAP Crusher	ACTIVE		0.6			
7775424	AJAX PAVING INDUSTRIES TAMPA PLANT	362.86	3085.66	6	Drum Mix Asphalt Plant (400TPH)	ACTIVE		14.5			
								15.1	27.6	552.4	N
7775438	DGP&S CONSTRN-WILLIAMS RD	370.31	3098.2	2	NMMP Plant-crusher power unit,diesel RICE genset, 122HP	ACTIVE					
								0	37.7	753.8	N

Appendix B - Pinellas Regional Sources AAQS AERMOD Inputs

Pinellas Regional Sources AAQS AERMOD Inputs

Source ID	UTM E (m)	UTM N (m)	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp [F]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
RRF1	335273	3084303	3.05	50.29	12.64	405.4	21.76	4.49	Pinellas RRF Stack
570005A	388300	3115700	25	7.62	0.01	560.93	17.68	1.07	JOHNSTON SCOTCH MARINE TYPE BOILER
570005C	388000	3116000	25	33.53	9.55	305.37	19.51	1.52	A SULFURIC ACID PLANT
570005g	388100	3116000	25	33.53	11.76	305.37	19.51	1.52	B SULFURIC ACID PLANT
570005l	388100	3116000	25	60.66	38.22	347.04	8.23	2.83	C SULFURIC ACID PLANT
570005J	388200	3116000	25	60.66	38.22	347.04	11.13	2.44	D SULFURIC ACID PLANT
570005L	388000	3115700	25	28.65	2.96	326.48	7.92	3.05	A DAP/MAP PLANT
570005M	388000	3115700	25	49.68	13.18	331.48	13.11	2.8	Z DAP/MAP PLANT
570005N	388000	3116000	25	41.45	13.18	335.93	11.92	2.8	X DAP/MAP PLANT
570005P	388030	3115070	25	2.44	0.11	373.15	1.52	0.27	2600 TON STORAGE TANK
570005Q	388030	3115070	25	3.66	0.01	373.15	1.52	0.09	TRUCK PIT A
570005R	388030	3115070	25	3.66	0.16	373.15	1.52	0.09	TRUCK PIT B
570005S	388000	3116000	25	0.61	0.08	255.37	0.1	18.29	5,000 TON MOLTEN STORAGE TANK
570008A	364590	3082380	2	45.72	67.16	340.37	13.41	2.29	NO. 7 SULFURIC ACID PLANT
570008B	363300	3082400	2	45.72	49.62	339.82	10.36	2.44	NO. 8 SULFURIC ACID PLANT
570008C	364590	3082380	2	45.72	62.47	349.82	12.68	2.74	NO. 9 SULFURIC ACID PLANT
570008E	364590	3082380	2	6.1	0.07	488.71	15.85	1.22	AUXILIARY STEAM GENERATOR
570008F	362900	3082500	2	40.54	1.6	315.37	15.24	2.13	NO. 5 GRANULATION PLANT
570008G	363000	3082300	2	9.14	0.05	316.48	0.1	0.24	TANK Nos. 1, 2, and 3 for molten sulfur storage w/scrubber
570008L	364590	3082380	2	38.1	2.96	255.37	0.1	1.83	COMMON STACK, ANIMAL FEED PLANT No. 1
570028a	348830	3082690	2	12.8016	0.43	449.8	17.98	0.335	#1 CALCIDYNE (8 TPH)-W/FLEX-KLEEN MODEL 84RA96 BAGHOUSE
570028b	348830	3082690	2	12.8016	0.43	449.8	18.90	0.335	#2 CALCIDYNE (8 TPH), USING A FLEX-KLEEN MODEL 84RA96 BAGHOU
570028c	348830	3082690	2	12.8016	0.43	449.8	20.73	0.335	#3 CALCIDYNE UNIT
570028E	347300	3082700	1	12.8	0.64	449.82	21.64	0.34	NO. 5 CALCIDYNE UNIT
570028F	347300	3082700	1	12.8	0.64	449.82	21.64	0.34	NO. 6 CALCIDYNE UNIT
570028G	347300	3082700	1	12.8	0.27	449.82	21.64	0.34	NO. 7 CALCIDYNE UNIT
570028H	347300	3082700	1	12.8	0.64	449.82	21.64	0.34	NO. 8 CALCIDYNE UNIT
570028I	347300	3082700	1	14.33	3.44	427.04	20.42	0.76	WALLBOARD KILN NO. 2 GAS FIRED-#2 F.OIL W/.35%S AS BACKUP
570028J	348830	3082690	1	19.51	1.15	358.15	11.8	1.07	ROCK DRYER & CRUSHER W/INSULATED RAY JET BAGHOUSE
570028K	348830	3082690	1	10.67	3.4	422.04	0.1	0.85	TEN DECK KILN DRYER IN BOARD PLANT NO. 1
570028N	347300	3082700	1	27.43	0.09	366.48	13.62	1.19	Impact Mill #1
570028O	348830	3082690	1	27.43	0.09	366.48	23.01	0.91	Impact Mill #2
570039A	361716	3075060	0	149.35	3306	418.71	35.33	7.32	Fossil Fuel Fired Steam Generator Unit No. 1
570039H	361720	3074980	0	149.35	3273	324.82	26.7	7.32	Fossil Fuel Fired Steam Generator Unit No. 2
570039O	361820	3075060	0	149.35	3370	426.48	15.61	7.32	Fossil Fuel Fired Steam Generator Unit No. 3
570039W	361820	3075040	0	149.35	447.4	325.93	18.14	7.32	Fossil Fuel Fired Steam Generator Unit No. 4
570039X	361900	3075000	0	18.29	0.24	751.48	30.88	2.9	Unit 4: SCCT 4A: PWPS FT8-3 SwiftPac CT/Gen Peaking Unit
570039zd	361900	3075000	0	18.29	0.24	751.48	30.88	2.90	Unit 4: SCCT 4B: PWPS FT8-3 SwiftPac CT/Gen Peaking Unit
570057A	364060	3093740	9	45.72	25.49	366.48	54.99	0.61	BLAST FURNACE EXHAUST
570057B	364060	3093740	9	12.19	0.00126	255.37	0.1	0.91	Refining Kettle exhaust stacks (products of combustion)
570127A	360200	3092210	2	61.26	13.23	430.37	22.34	1.28	Municipal Waste Combustor & Auxiliary Burners-Unit 1

Pinellas Regional Sources AAQS AERMOD Inputs

Source ID	UTM E (m)	UTM N (m)	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp [F]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
570127D	360200	3092210	2	61.26	13.23	430.37	22.34	1.28	Municipal Waste Combustor & Auxiliary Burners-Unit 2
570127F	360200	3092210	2	61.26	13.23	430.37	22.34	1.28	Municipal Waste Combustor & Auxiliary Burners-Unit 3
570127G	360200	3092210	2	61.26	13.23	430.37	22.34	1.28	Municipal Waste Combustor & Auxiliary Burners-Unit 4
570261A	368200	3092700	7	67.06	4.14	416.48	22.1	1.55	Municipal Waste Combustor & Auxiliary burners-Unit #1
570261D	368200	3092700	7	67.06	4.14	416.48	22.1	1.55	Municipal Waste Combustor & Auxiliary burners-Unit #2
570261F	368200	3092700	7	67.06	4.14	416.48	22.1	1.55	Municipal Waste Combustor & Auxiliary burners-Unit #3
570261G	368200	3092700	7	67.06	2.434	405.37	31.09	1.55	Municipal Waste Combustor & Auxiliary Burners - Unit #4
810010B	367150	3054230	16	152.1	1199	446.48	23.77	8.32	Fossil Fuel Steam Generator, Unit 1-Phase II Acid Rain Unit
810010C	367150	3054230	16	152.1	1199	435.93	25.15	7.99	Fossil Fuel Steam Generator, Unit 2-Phase II Acid Rain Unit
810010F	367250	3054150	16	36.58	1.68	875.37	31.94	6.71	Unit 3A Combustion Turbine (170 MW) with HRSG
810010G	367250	3054150	16	36.58	1.68	367.59	17.98	5.79	Unit 3B Combustion Turbine (170 MW) with HRSG
810010H	367250	3054150	16	36.58	1.68	367.59	17.98	5.79	Unit 3C Combustion Turbine (170 MW) with HRSG
810010I	367250	3054150	16	36.58	1.68	367.59	17.98	5.79	Unit 3D Combustion Turbine (170 MW) with HRSG
1010017A	324440	3118930	2	152.1	1758	433.15	18.9	7.32	STEAM TURBINE GENERATOR ANCLOTE UNIT NO. 1
1010017B	324440	3118930	2	152.1	1718	433.15	18.9	7.32	STEAM TURBINE GENERATOR ANCLOTE UNIT NO. 2
1030011A	342570	3082680	0	9.14	0.98	541.48	5.18	0.91	Bartow-Anclote Pipeline Heating Boiler
1030011B	343870	3082690	0	13.72	45.43	772.04	21.06	5.46	Gas Turbine Peaking Unit #P-1
1030011C	343870	3082690	0	13.72	45.43	772.04	21.06	5.46	Gas Turbine Peaking Unit #P-2
1030011D	343870	3082690	0	13.72	45.43	772.04	21.06	5.46	Gas Turbine Peaking Unit #P-3
1030011E	343870	3082690	0	13.72	45.43	772.04	21.06	5.46	Gas Turbine Peaking Unit #P-4
1030011G	343870	3082690	0	40.23	1.71	360.93	21.31	5.49	215 MW Combined Cycle Combustion Turbine System - Unit 4B
1030011H	343870	3082690	0	40.23	1.71	255.37	21.31	5.49	215 MW Combined Cycle Combustion Turbine System - Unit 4C
1030011I	343870	3082690	0	40.23	1.71	360.93	21.31	5.49	215 MW Combined Cycle Combustion Turbine System - Unit 4D
1030012A	336690	3098650	0	16.76	36.07	727.59	28.38	4.6	Combustion Turbine Peaking Unit - CTP 1
1030012B	336660	3098660	0	17.07	36.07	727.59	28.38	4.6	Combustion Turbine Peaking Unit - CTP 2
1030012C	336620	3098660	0	16.76	40.21	727.59	28.38	4.6	Combustion Turbine Peaking Unit - CTP 3
1030012D	336580	3098660	0	16.76	40.21	727.59	28.38	4.6	Combustion Turbine Peaking Unit - CTP 4
1030013A	338860	3071480	0	12.19	49.25	755.37	6.4	6.98	Combustion Turbine Peaking Unit # 1
1030013B	338860	3071480	0	12.19	49.25	755.37	6.4	6.98	Combustion Turbine Peaking Unit # 2
1030013C	338860	3071480	0	12.19	49.25	755.37	6.4	6.98	Combustion Turbine Peaking Unit # 3
1030013D	338860	3071480	0	12.19	49.25	755.37	6.4	6.98	Combustion Turbine Peaking Unit # 4
1050059B	396670	3079300	48	60.96	62.5	349.82	15.24	2.59	Sulfuric Acid Plant No. 1
1050059C	396670	3079300	48	60.96	62.5	349.82	15.24	2.59	Sulfuric Acid Plant No. 2
1050059E	396670	3079300	48	60.96	62.5	349.82	15.24	2.59	Sulfuric Acid Plant No. 3
1050059H	396670	3079300	48	40.54	10.34	313.71	14.94	2.13	DAP Plant No. 1
1050059K	396670	3079300	48	52.43	24.19	313.71	15.85	1.37	Multifos A and B Kilns, Dryer and Blending Operation
1050059L	396670	3079300	48	60.66	60.9	349.82	15.24	2.59	Sulfuric Acid Plant No. 4
1050059M	396670	3079300	48	60.66	60.9	349.82	15.24	2.59	Sulfuric Acid Plant No. 5
1050059N	396670	3079300	48	52.12	2.77	316.48	17.68	1.83	DAP Plant No 2 - East Train
1050059O	396450	3079290	48	52.12	2.77	316.48	17.68	1.83	DAP Plant No 2 - West Train
1050059P	396670	3079300	48	12.19	0.06	388.71	0.1	0.61	7500 Ton Rail Storage Molten Sulfur Storage Tank

Pinellas Regional Sources AAQS AERMOD Inputs

Source ID	UTM E (m)	UTM N (m)	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Gas Exit Temp [F]	Gas Exit Velocity [m/s]	Inside Diameter [m]	Description
1050059Q	396670	3079300	48	12.19	0.06	388.71	0.1	0.61	5,000 Ton Molten Sulfur Storage Tank No.3
1050059R	396670	3079300	48	12.19	0.04	388.71	0.1	0.61	1500 Ton Truck Unloading Sulfur Pit (North) No.1
1050059S	396670	3079300	48	12.19	0.01	388.71	0.1	0.61	350 Ton Truck Unloading Sulfur Pit (South) No. 2
1050059T	396670	3079300	48	12.19	0.04	388.71	0.1	0.61	800 Railcar Unloading Pit
1050059U	396670	3079300	48	12.19	0.01	388.71	0.1	0.61	200 Ton Molten Sulfur Transfer Pit
1050059V	396670	3079300	48	0	0.04	255.37	0.1	0	1500 Ton Truck Unloading Sulfur Pit, Front Vent
1050059W	396670	3079300	48	7.62	0.04	305.37	0.1	0.03	1500 Ton Truck Unloading Sulfur Pit, Rear Vent
1050059X	396670	3079300	48	7.62	0.01	305.37	0.1	0.03	350 Ton Truck Unloading Sulfur Pit Vent No. 2
1050059Y	396670	3079300	48	52.43	1.15	313.71	21.4	1.37	Multifos C Kiln Scrubber
1050059Z	396670	3079300	48	40.54	1.73	335.93	33.41	1.83	Granular Monoammonium Phosphate (GMAP) PLANT

**Appendix C - Pinellas County – Comparison of PCRRF Contributions
to Regional Sources All Maximum Concentration**

AERMOD 11353 MAXDCON ALL 4 THRESHOLD 7.6 AERMOD08.DAT

AERMOD 12060 MAXDCON ALL 1 4 AERMOD09.DAT

AERMOD 11353 MAXDCON ALL 4 THRESHOLD 7.6 AERMOD08.DAT							AERMOD 12060 MAXDCON ALL 1 4 AERMOD09.DAT							DIFF	DIFF		
UTM X (m)	UTM Y (m)	AVERAGE CONC	AVE	GRP	RANK	NET ID CONT SRCGP1	CONT ALL	UTM X (m)	UTM Y (m)	AVERAGE CONC	AVE	GRP	RANK	NET ID CONT SRCGP1	CONT ALL	SRCGP1	CONT ALL
335404.37	3084750	614.9660	1-HR	ALL	4TH	0.00017	614.966	335404.4	3084750	614.9660	1-HR	ALL	4TH	0.00017	614.96595	0.000	0.000
335355.46	3084760	614.1140	1-HR	ALL	4TH	0.00017	614.114	335355.5	3084760	614.1140	1-HR	ALL	4TH	0.00017	614.11395	0.000	0.000
335307.83	3084775	613.1692	1-HR	ALL	4TH	0.00018	613.1692	335307.8	3084775	613.1692	1-HR	ALL	4TH	0.00018	613.16923	0.000	0.000
335260.69	3084792	612.2684	1-HR	ALL	4TH	0.00018	612.2684	335260.7	3084792	612.2684	1-HR	ALL	4TH	0.00018	612.26843	0.000	0.000
335214.03	3084810	611.3618	1-HR	ALL	4TH	0.00019	611.3618	335214	3084810	611.3618	1-HR	ALL	4TH	0.00019	611.36177	0.000	0.000
335167.68	3084828	610.4262	1-HR	ALL	4TH	0.0002	610.4262	335167.7	3084828	610.4262	1-HR	ALL	4TH	0.0002	610.42618	0.000	0.000
335121.38	3084847	609.5593	1-HR	ALL	4TH	0.0002	609.5593	335121.4	3084847	609.5593	1-HR	ALL	4TH	0.0002	609.55932	0.000	0.000
335084.5	3084879	608.7603	1-HR	ALL	4TH	0.00188	608.7603	335084.5	3084879	608.7603	1-HR	ALL	4TH	0.00188	608.76033	0.000	0.000
335077.5	3084928	608.7650	1-HR	ALL	4TH	0.00195	608.765	335077.5	3084928	608.7650	1-HR	ALL	4TH	0.00195	608.76495	0.000	0.000
335118.9	3084937	609.5846	1-HR	ALL	4TH	0.00195	609.5846	335118.9	3084937	609.5846	1-HR	ALL	4TH	0.00195	609.5846	0.000	0.000
335168.9	3084937	610.6148	1-HR	ALL	4TH	0.00193	610.6148	335168.9	3084937	610.6148	1-HR	ALL	4TH	0.00193	610.6148	0.000	0.000
335218.9	3084937	611.6862	1-HR	ALL	4TH	0.00022	611.6862	335218.9	3084937	611.6862	1-HR	ALL	4TH	0.00022	611.68621	0.000	0.000
335268.9	3084937	612.6419	1-HR	ALL	4TH	0.00023	612.6419	335268.9	3084937	612.6419	1-HR	ALL	4TH	0.00023	612.64191	0.000	0.000
335318.9	3084937	613.5375	1-HR	ALL	4TH	0.00193	613.5375	335318.9	3084937	613.5375	1-HR	ALL	4TH	0.00193	613.5375	0.000	0.000
335368.9	3084937	614.5098	1-HR	ALL	4TH	0.00193	614.5098	335368.9	3084937	614.5098	1-HR	ALL	4TH	0.00193	614.50984	0.000	0.000
335418.9	3084937	615.4874	1-HR	ALL	4TH	0.00195	615.4874	335418.9	3084937	615.4874	1-HR	ALL	4TH	0.00195	615.4874	0.000	0.000
335431.84	3084900	615.8256	1-HR	ALL	4TH	0.0019	615.8256	335431.8	3084900	615.8256	1-HR	ALL	4TH	0.0019	615.82557	0.000	0.000
335431.62	3084850	615.8239	1-HR	ALL	4TH	0.00182	615.8239	335431.6	3084850	615.8239	1-HR	ALL	4TH	0.00182	615.82394	0.000	0.000
335431.41	3084800	615.7135	1-HR	ALL	4TH	0.00171	615.7135	335431.4	3084800	615.7135	1-HR	ALL	4TH	0.00171	615.7135	0.000	0.000
335431.2	3084750	615.5102	1-HR	ALL	4TH	0.00157	615.5102	335431.2	3084750	615.5102	1-HR	ALL	4TH	0.00157	615.51023	0.000	0.000
335449.69	3083392	604.4021	1-HR	ALL	4TH	0.02107	604.4021	335449.7	3083392	604.4021	1-HR	ALL	4TH	0.02107	604.40206	0.000	0.000
335450.21	3083442	606.2686	1-HR	ALL	4TH	0.01865	606.2686	335450.2	3083442	606.2686	1-HR	ALL	4TH	0.01865	606.26861	0.000	0.000
335450.74	3083492	606.0927	1-HR	ALL	4TH	0.00281	606.0927	335450.7	3083492	606.0927	1-HR	ALL	4TH	0.00281	606.09269	0.000	0.000
335451.26	3083542	604.7588	1-HR	ALL	4TH	0.00244	604.7588	335451.3	3083542	604.7588	1-HR	ALL	4TH	0.00244	604.75881	0.000	0.000
335451.79	3083592	603.8748	1-HR	ALL	4TH	0.00145	603.8748	335451.8	3083592	603.8748	1-HR	ALL	4TH	0.00145	603.87476	0.000	0.000
335452.31	3083642	603.8233	1-HR	ALL	4TH	0.0019	603.8233	335452.3	3083642	603.8233	1-HR	ALL	4TH	0.0019	603.82326	0.000	0.000
335452.84	3083692	605.9038	1-HR	ALL	4TH	0.00652	605.9038	335452.8	3083692	605.9038	1-HR	ALL	4TH	0.00652	605.90375	0.000	0.000
335453.36	3083742	608.8740	1-HR	ALL	4TH	0.00599	608.874	335453.4	3083742	608.8740	1-HR	ALL	4TH	0.00599	608.874	0.000	0.000
335453.88	3083792	611.7645	1-HR	ALL	4TH	0.00556	611.7645	335453.9	3083792	611.7645	1-HR	ALL	4TH	0.00556	611.76446	0.000	0.000
335454.41	3083842	614.5701	1-HR	ALL	4TH	0.00518	614.5701	335454.4	3083842	614.5701	1-HR	ALL	4TH	0.00518	614.57006	0.000	0.000
335454.93	3083892	617.2709	1-HR	ALL	4TH	0.00484	617.2709	335454.9	3083892	617.2709	1-HR	ALL	4TH	0.00484	617.27092	0.000	0.000
335455.46	3083942	619.3919	1-HR	ALL	4TH	0.00449	619.3919	335455.5	3083942	619.3919	1-HR	ALL	4TH	0.00449	619.3919	0.000	0.000
335455.98	3083992	621.4343	1-HR	ALL	4TH	0.00398	621.4343	335456	3083992	621.4343	1-HR	ALL	4TH	0.00398	621.43434	0.000	0.000
335456.51	3084042	622.8422	1-HR	ALL	4TH	0.00358	622.8422	335456.5	3084042	622.8422	1-HR	ALL	4TH	0.00358	622.84222	0.000	0.000
335457.03	3084092	622.7333	1-HR	ALL	4TH	0.00111	622.7333	335457	3084092	622.7333	1-HR	ALL	4TH	0.00111	622.73327	0.000	0.000
335457.56	3084142	622.6513	1-HR	ALL	4TH	0.00278	622.6513	335457.6	3084142	622.6513	1-HR	ALL	4TH	0.00278	622.6513	0.000	0.000
335458.08	3084192	622.4024	1-HR	ALL	4TH	0.00242	622.4024	335458.1	3084192	622.4024	1-HR	ALL	4TH	0.00242	622.40235	0.000	0.000
335458.78	3084242	622.0528	1-HR	ALL	4TH	0.00214	622.0528	335458.8	3084242	622.0528	1-HR	ALL	4TH	0.00214	622.05275	0.000	0.000
335459.49	3084292	621.5963	1-HR	ALL	4TH	0.00201	621.5963	335459.5	3084292	621.5963	1-HR	ALL	4TH	0.00201	621.59625	0.000	0.000
335460.19	3084342	621.0354	1-HR	ALL	4TH	0.00207	621.0354	335460.2	3084342	621.0354	1-HR	ALL	4TH	0.00207	621.03538	0.000	0.000
335460.9	3084392	620.3639	1-HR	ALL	4TH	0.00231	620.3639	335460.9	3084392	620.3639	1-HR	ALL	4TH	0.00231	620.36391	0.000	0.000
335461.61	3084442	619.5875	1-HR	ALL	4TH	0.00265	619.5875	335461.6	3084442	619.5875	1-HR	ALL	4TH	0.00265	619.58751	0.000	0.000
335462.32	3084492	618.6772	1-HR	ALL	4TH	0.00302	618.6772	335462.3	3084492	618.6772	1-HR	ALL	4TH	0.00302	618.67722	0.000	0.000
335463.02	3084542	617.6512	1-HR	ALL	4TH	0.00346	617.6512	335463	3084542	617.6512	1-HR	ALL	4TH	0.00346	617.65121	0.000	0.000
335463.73	3084592	616.5304	1-HR	ALL	4TH	0.00389	616.5304	335463.7	3084592	616.5304	1-HR	ALL	4TH	0.00389	616.53044	0.000	0.000
335464.44	3084642	615.8031	1-HR	ALL	4TH	0.0013	615.8031	335464.4	3084642	615.8031	1-HR	ALL	4TH	0.0013	615.8031	0.000	0.000
335496.36	3084660	616.3726	1-HR	ALL	4TH	0.0014	616.3726	335496.4	3084660	616.3726	1-HR	ALL	4TH	0.0014	616.37261	0.000	0.000
335546.36	3084659	617.5015	1-HR	ALL	4TH	0.00149	617.5015	335546.4	3084659	617.5015	1-HR	ALL	4TH	0.00149	617.50147	0.000	0.000

336250	3084870	632.1741	1-HR	ALL	4TH	0.00888	632.1741	336250	3084870	632.1741	1-HR	ALL	4TH	0.00888	632.17413	0.000	0.000
336250	3084770	631.5634	1-HR	ALL	4TH	0.00383	631.5634	336250	3084770	631.5634	1-HR	ALL	4TH	0.00383	631.56336	0.000	0.000
336250	3084670	632.1454	1-HR	ALL	4TH	0.00358	632.1454	336250	3084670	632.1454	1-HR	ALL	4TH	0.00358	632.14544	0.000	0.000
336250	3084570	632.3622	1-HR	ALL	4TH	0.00339	632.3622	336250	3084570	632.3622	1-HR	ALL	4TH	0.00339	632.36216	0.000	0.000
336250	3084470	631.9732	1-HR	ALL	4TH	0.0003	631.9732	336250	3084470	631.9732	1-HR	ALL	4TH	0.0003	631.97319	0.000	0.000
336250	3084370	631.4155	1-HR	ALL	4TH	0.00317	631.4155	336250	3084370	631.4155	1-HR	ALL	4TH	0.00317	631.41546	0.000	0.000
336250	3084270	633.0418	1-HR	ALL	4TH	0.01383	633.0418	336250	3084270	633.0418	1-HR	ALL	4TH	0.01383	633.04181	0.000	0.000
336250	3084170	634.9744	1-HR	ALL	4TH	0.01408	634.9744	336250	3084170	634.9744	1-HR	ALL	4TH	0.01408	634.97435	0.000	0.000
336250	3084070	636.4380	1-HR	ALL	4TH	0.01465	636.438	336250	3084070	636.4380	1-HR	ALL	4TH	0.01465	636.43803	0.000	0.000
336250	3083970	637.4748	1-HR	ALL	4TH	0.0155	637.4748	336250	3083970	637.4748	1-HR	ALL	4TH	0.0155	637.4748	0.000	0.000
336250	3083870	637.9164	1-HR	ALL	4TH	0.004	637.9164	336250	3083870	637.9164	1-HR	ALL	4TH	0.004	637.91643	0.000	0.000
336250	3083770	638.2789	1-HR	ALL	4TH	0.018	638.2789	336250	3083770	638.2789	1-HR	ALL	4TH	0.018	638.27892	0.000	0.000
336250	3083670	635.3256	1-HR	ALL	4TH	0.01951	635.3256	336250	3083670	635.3256	1-HR	ALL	4TH	0.01951	635.32556	0.000	0.000
336250	3083570	630.5191	1-HR	ALL	4TH	0.02093	630.5191	336250	3083570	630.5191	1-HR	ALL	4TH	0.02093	630.51907	0.000	0.000
336250	3083470	624.6238	1-HR	ALL	4TH	0.02238	624.6238	336250	3083470	624.6238	1-HR	ALL	4TH	0.02238	624.62378	0.000	0.000
336150	3085270	632.7449	1-HR	ALL	4TH	0.0029	632.7449	336150	3085270	632.7449	1-HR	ALL	4TH	0.0029	632.74491	0.000	0.000
336150	3085170	631.8949	1-HR	ALL	4TH	0.0026	631.8949	336150	3085170	631.8949	1-HR	ALL	4TH	0.0026	631.89487	0.000	0.000
336150	3085070	631.4117	1-HR	ALL	4TH	0.00337	631.4117	336150	3085070	631.4117	1-HR	ALL	4TH	0.00337	631.41166	0.000	0.000
336150	3084970	631.7343	1-HR	ALL	4TH	0.01396	631.7343	336150	3084970	631.7343	1-HR	ALL	4TH	0.01396	631.73428	0.000	0.000
336150	3084870	629.8746	1-HR	ALL	4TH	0.00359	629.8746	336150	3084870	629.8746	1-HR	ALL	4TH	0.00359	629.87455	0.000	0.000
336150	3084770	629.6931	1-HR	ALL	4TH	0.00327	629.6931	336150	3084770	629.6931	1-HR	ALL	4TH	0.00327	629.69312	0.000	0.000
336150	3084670	630.2309	1-HR	ALL	4TH	0.00303	630.2309	336150	3084670	630.2309	1-HR	ALL	4TH	0.00303	630.23092	0.000	0.000
336150	3084270	631.8005	1-HR	ALL	4TH	0.0111	631.8005	336150	3084270	631.8005	1-HR	ALL	4TH	0.0111	631.80045	0.000	0.000
336150	3084170	633.5666	1-HR	ALL	4TH	0.01132	633.5666	336150	3084170	633.5666	1-HR	ALL	4TH	0.01132	633.56656	0.000	0.000
336150	3084070	634.8808	1-HR	ALL	4TH	0.01182	634.8808	336150	3084070	634.8808	1-HR	ALL	4TH	0.01182	634.88082	0.000	0.000
336150	3083970	635.7727	1-HR	ALL	4TH	0.01266	635.7727	336150	3083970	635.7727	1-HR	ALL	4TH	0.01266	635.77265	0.000	0.000
336150	3083870	635.8452	1-HR	ALL	4TH	0.00338	635.8452	336150	3083870	635.8452	1-HR	ALL	4TH	0.00338	635.84523	0.000	0.000
336150	3083770	635.9946	1-HR	ALL	4TH	0.01525	635.9946	336150	3083770	635.9946	1-HR	ALL	4TH	0.01525	635.99461	0.000	0.000
336150	3083670	631.7844	1-HR	ALL	4TH	0.01697	631.7844	336150	3083670	631.7844	1-HR	ALL	4TH	0.01697	631.78436	0.000	0.000
336150	3083570	626.4862	1-HR	ALL	4TH	0.01891	626.4862	336150	3083570	626.4862	1-HR	ALL	4TH	0.01891	626.48619	0.000	0.000
336150	3083470	620.4816	1-HR	ALL	4TH	0.02067	620.4816	336150	3083470	620.4816	1-HR	ALL	4TH	0.02067	620.48163	0.000	0.000
336050	3085370	631.4562	1-HR	ALL	4TH	0.00293	631.4562	336050	3085370	631.4562	1-HR	ALL	4TH	0.00293	631.45618	0.000	0.000
336050	3085270	630.6492	1-HR	ALL	4TH	0.00263	630.6492	336050	3085270	630.6492	1-HR	ALL	4TH	0.00263	630.64918	0.000	0.000
336050	3085170	629.5060	1-HR	ALL	4TH	0.00232	629.506	336050	3085170	629.5060	1-HR	ALL	4TH	0.00232	629.50596	0.000	0.000
336050	3085070	629.4331	1-HR	ALL	4TH	0.00303	629.4331	336050	3085070	629.4331	1-HR	ALL	4TH	0.00303	629.43313	0.000	0.000
336050	3084970	628.5621	1-HR	ALL	4TH	0.002	628.5621	336050	3084970	628.5621	1-HR	ALL	4TH	0.002	628.56209	0.000	0.000
336050	3084870	627.5752	1-HR	ALL	4TH	0.00309	627.5752	336050	3084870	627.5752	1-HR	ALL	4TH	0.00309	627.57519	0.000	0.000
336050	3084770	627.9004	1-HR	ALL	4TH	0.00279	627.9004	336050	3084770	627.9004	1-HR	ALL	4TH	0.00279	627.90042	0.000	0.000
336050	3084670	628.2661	1-HR	ALL	4TH	0.00257	628.2661	336050	3084670	628.2661	1-HR	ALL	4TH	0.00257	628.26608	0.000	0.000
335950	3085270	628.5765	1-HR	ALL	4TH	0.00236	628.5765	335950	3085270	628.5765	1-HR	ALL	4TH	0.00236	628.57648	0.000	0.000
335950	3085170	627.3008	1-HR	ALL	4TH	0.00218	627.3008	335950	3085170	627.3008	1-HR	ALL	4TH	0.00218	627.30078	0.000	0.000
335950	3085070	627.4284	1-HR	ALL	4TH	0.01197	627.4284	335950	3085070	627.4284	1-HR	ALL	4TH	0.01197	627.42835	0.000	0.000
335950	3084970	625.9459	1-HR	ALL	4TH	0.00599	625.9459	335950	3084970	625.9459	1-HR	ALL	4TH	0.00599	625.94588	0.000	0.000
335950	3084870	625.4366	1-HR	ALL	4TH	0.00267	625.4366	335950	3084870	625.4366	1-HR	ALL	4TH	0.00267	625.43656	0.000	0.000
335950	3084770	626.0694	1-HR	ALL	4TH	0.00241	626.0694	335950	3084770	626.0694	1-HR	ALL	4TH	0.00241	626.06942	0.000	0.000
335950	3084670	626.2159	1-HR	ALL	4TH	0.00025	626.2159	335950	3084670	626.2159	1-HR	ALL	4TH	0.00025	626.21588	0.000	0.000
335850	3085270	626.1753	1-HR	ALL	4TH	0.0022	626.1753	335850	3085270	626.1753	1-HR	ALL	4TH	0.0022	626.17531	0.000	0.000
335850	3085170	625.1503	1-HR	ALL	4TH	0.00284	625.1503	335850	3085170	625.1503	1-HR	ALL	4TH	0.00284	625.15032	0.000	0.000
335850	3085070	625.2629	1-HR	ALL	4TH	0.00249	625.2629	335850	3085070	625.2629	1-HR	ALL	4TH	0.00249	625.26288	0.000	0.000
335850	3084970	623.6698	1-HR	ALL	4TH	0.00266	623.6698	335850	3084970	623.6698	1-HR	ALL	4TH	0.00266	623.66979	0.000	0.000
335850	3084870	623.7301	1-HR	ALL	4TH	0.00235	623.7301	335850	3084870	623.7301	1-HR	ALL	4TH	0.00235	623.73007	0.000	0.000
335850	3084770	624.1601	1-HR	ALL	4TH	0.00215	624.1601	335850	3084770	624.1601	1-HR	ALL	4TH	0.00215	624.16012	0.000	0.000
335850	3084670	623.9879	1-HR	ALL	4TH	0.00024	623.9879	335850	3084670	623.9879	1-HR	ALL	4TH	0.00024	623.98794	0.000	0.000
335750	3085270	623.7648	1-HR	ALL	4TH	0.00214	623.7648	335750	3085270	623.7648	1-HR	ALL	4TH	0.00214	623.76483	0.000	0.000

335750	3085170	623.2981	1-HR	ALL	4TH	0.01101	623.2981	335750	3085170	623.2981	1-HR	ALL	4TH	0.01101	623.2981	0.000	0.000
335750	3085070	622.4709	1-HR	ALL	4TH	0.00195	622.4709	335750	3085070	622.4709	1-HR	ALL	4TH	0.00195	622.47085	0.000	0.000
335750	3084970	621.3819	1-HR	ALL	4TH	0.00239	621.3819	335750	3084970	621.3819	1-HR	ALL	4TH	0.00239	621.38192	0.000	0.000
335750	3084870	621.9387	1-HR	ALL	4TH	0.00214	621.9387	335750	3084870	621.9387	1-HR	ALL	4TH	0.00214	621.93873	0.000	0.000
335750	3084770	622.1991	1-HR	ALL	4TH	0.00198	622.1991	335750	3084770	622.1991	1-HR	ALL	4TH	0.00198	622.19907	0.000	0.000
335750	3084670	622.0433	1-HR	ALL	4TH	0.00188	622.0433	335750	3084670	622.0433	1-HR	ALL	4TH	0.00188	622.04327	0.000	0.000
335650	3085270	621.4295	1-HR	ALL	4TH	0.00209	621.4295	335650	3085270	621.4295	1-HR	ALL	4TH	0.00209	621.42953	0.000	0.000
335650	3085170	621.1346	1-HR	ALL	4TH	0.00244	621.1346	335650	3085170	621.1346	1-HR	ALL	4TH	0.00244	621.1346	0.000	0.000
335650	3085070	619.7293	1-HR	ALL	4TH	0.00247	619.7293	335650	3085070	619.7293	1-HR	ALL	4TH	0.00247	619.72927	0.000	0.000
335650	3084970	619.5158	1-HR	ALL	4TH	0.0022	619.5158	335650	3084970	619.5158	1-HR	ALL	4TH	0.0022	619.51584	0.000	0.000
335650	3084870	620.0910	1-HR	ALL	4TH	0.002	620.091	335650	3084870	620.0910	1-HR	ALL	4TH	0.002	620.09096	0.000	0.000
335650	3084770	620.0054	1-HR	ALL	4TH	0.00022	620.0054	335650	3084770	620.0054	1-HR	ALL	4TH	0.00022	620.00535	0.000	0.000
335650	3084670	619.8727	1-HR	ALL	4TH	0.00173	619.8727	335650	3084670	619.8727	1-HR	ALL	4TH	0.00173	619.87267	0.000	0.000
335650	3083270	607.4316	1-HR	ALL	4TH	0.02461	607.4316	335650	3083270	607.4316	1-HR	ALL	4TH	0.02461	607.43157	0.000	0.000
335550	3085370	620.1576	1-HR	ALL	4TH	0.00217	620.1576	335550	3085370	620.1576	1-HR	ALL	4TH	0.00217	620.1576	0.000	0.000
335550	3085270	618.9800	1-HR	ALL	4TH	0.01145	618.98	335550	3085270	618.9800	1-HR	ALL	4TH	0.01145	618.97995	0.000	0.000
335550	3085170	619.3691	1-HR	ALL	4TH	0.00242	619.3691	335550	3085170	619.3691	1-HR	ALL	4TH	0.00242	619.36914	0.000	0.000
335550	3085070	617.4753	1-HR	ALL	4TH	0.00237	617.4753	335550	3085070	617.4753	1-HR	ALL	4TH	0.00237	617.47528	0.000	0.000
335550	3084970	617.7600	1-HR	ALL	4TH	0.00209	617.76	335550	3084970	617.7600	1-HR	ALL	4TH	0.00209	617.75997	0.000	0.000
335550	3084870	618.1668	1-HR	ALL	4TH	0.00192	618.1668	335550	3084870	618.1668	1-HR	ALL	4TH	0.00192	618.16683	0.000	0.000
335550	3084770	618.1231	1-HR	ALL	4TH	0.00177	618.1231	335550	3084770	618.1231	1-HR	ALL	4TH	0.00177	618.12305	0.000	0.000
335550	3084670	617.6578	1-HR	ALL	4TH	0.00153	617.6578	335550	3084670	617.6578	1-HR	ALL	4TH	0.00153	617.65776	0.000	0.000
335550	3083270	605.8295	1-HR	ALL	4TH	0.02324	605.8295	335550	3083270	605.8295	1-HR	ALL	4TH	0.02324	605.82945	0.000	0.000
335550	3081670	628.9757	1-HR	ALL	4TH	0.00345	628.9757	335550	3081670	628.9757	1-HR	ALL	4TH	0.00345	628.97568	0.000	0.000
335550	3081570	634.1916	1-HR	ALL	4TH	0.00543	634.1916	335550	3081570	634.1916	1-HR	ALL	4TH	0.00543	634.19164	0.000	0.000
335550	3081470	639.5858	1-HR	ALL	4TH	0.0059	639.5858	335550	3081470	639.5858	1-HR	ALL	4TH	0.0059	639.58582	0.000	0.000
335550	3081370	642.8791	1-HR	ALL	4TH	0.00454	642.8791	335550	3081370	642.8791	1-HR	ALL	4TH	0.00454	642.87908	0.000	0.000
335550	3081270	645.2143	1-HR	ALL	4TH	0.00491	645.2143	335550	3081270	645.2143	1-HR	ALL	4TH	0.00491	645.21431	0.000	0.000
335550	3081170	646.5152	1-HR	ALL	4TH	0.00315	646.5152	335550	3081170	646.5152	1-HR	ALL	4TH	0.00315	646.51521	0.000	0.000
335550	3081070	648.7560	1-HR	ALL	4TH	0.00348	648.756	335550	3081070	648.7560	1-HR	ALL	4TH	0.00348	648.75599	0.000	0.000
335550	3080970	648.9693	1-HR	ALL	4TH	0.00353	648.9693	335550	3080970	648.9693	1-HR	ALL	4TH	0.00353	648.96926	0.000	0.000
335550	3080870	646.6875	1-HR	ALL	4TH	0.00374	646.6875	335550	3080870	646.6875	1-HR	ALL	4TH	0.00374	646.68747	0.000	0.000
335550	3080770	643.6492	1-HR	ALL	4TH	0.00399	643.6492	335550	3080770	643.6492	1-HR	ALL	4TH	0.00399	643.64924	0.000	0.000
335550	3080670	640.9884	1-HR	ALL	4TH	0.00454	640.9884	335550	3080670	640.9884	1-HR	ALL	4TH	0.00454	640.98837	0.000	0.000
335550	3080570	638.9749	1-HR	ALL	4TH	0.00844	638.9749	335550	3080570	638.9749	1-HR	ALL	4TH	0.00844	638.9749	0.000	0.000
335550	3080470	641.5610	1-HR	ALL	4TH	0.009	641.561	335550	3080470	641.5610	1-HR	ALL	4TH	0.009	641.56099	0.000	0.000
335550	3080370	644.7375	1-HR	ALL	4TH	0.02358	644.7375	335550	3080370	644.7375	1-HR	ALL	4TH	0.02358	644.73746	0.000	0.000
335450	3085370	617.4943	1-HR	ALL	4TH	0.00217	617.4943	335450	3085370	617.4943	1-HR	ALL	4TH	0.00217	617.49433	0.000	0.000
335450	3085270	616.4492	1-HR	ALL	4TH	0.01097	616.4492	335450	3085270	616.4492	1-HR	ALL	4TH	0.01097	616.44916	0.000	0.000
335450	3085170	616.2821	1-HR	ALL	4TH	0.00261	616.2821	335450	3085170	616.2821	1-HR	ALL	4TH	0.00261	616.28212	0.000	0.000
335450	3085070	615.2574	1-HR	ALL	4TH	0.00227	615.2574	335450	3085070	615.2574	1-HR	ALL	4TH	0.00227	615.25736	0.000	0.000
335450	3084970	615.9526	1-HR	ALL	4TH	0.00202	615.9526	335450	3084970	615.9526	1-HR	ALL	4TH	0.00202	615.95258	0.000	0.000
335450	3084870	616.1894	1-HR	ALL	4TH	0.00187	616.1894	335450	3084870	616.1894	1-HR	ALL	4TH	0.00187	616.18944	0.000	0.000
335450	3084770	616.0029	1-HR	ALL	4TH	0.00165	616.0029	335450	3084770	616.0029	1-HR	ALL	4TH	0.00165	616.0029	0.000	0.000
335450	3084670	615.4009	1-HR	ALL	4TH	0.00135	615.4009	335450	3084670	615.4009	1-HR	ALL	4TH	0.00135	615.40099	0.000	0.000
335450	3084570	616.8732	1-HR	ALL	4TH	0.00363	616.8732	335450	3084570	616.8732	1-HR	ALL	4TH	0.00363	616.87317	0.000	0.000
335450	3084470	618.9276	1-HR	ALL	4TH	0.00277	618.9276	335450	3084470	618.9276	1-HR	ALL	4TH	0.00277	618.92764	0.000	0.000
335450	3084370	620.5056	1-HR	ALL	4TH	0.00205	620.5056	335450	3084370	620.5056	1-HR	ALL	4TH	0.00205	620.50557	0.000	0.000
335450	3084270	621.6601	1-HR	ALL	4TH	0.0019	621.6601	335450	3084270	621.6601	1-HR	ALL	4TH	0.0019	621.66005	0.000	0.000
335450	3084170	622.3861	1-HR	ALL	4TH	0.00249	622.3861	335450	3084170	622.3861	1-HR	ALL	4TH	0.00249	622.38607	0.000	0.000
335450	3084070	622.7014	1-HR	ALL	4TH	0.00328	622.7014	335450	3084070	622.7014	1-HR	ALL	4TH	0.00328	622.70142	0.000	0.000
335450	3083970	620.3734	1-HR	ALL	4TH	0.00417	620.3734	335450	3083970	620.3734	1-HR	ALL	4TH	0.00417	620.37339	0.000	0.000
335450	3083870	615.9235	1-HR	ALL	4TH	0.00498	615.9235	335450	3083870	615.9235	1-HR	ALL	4TH	0.00498	615.92348	0.000	0.000
335450	3083770	610.3757	1-HR	ALL	4TH	0.00573	610.3757	335450	3083770	610.3757	1-HR	ALL	4TH	0.00573	610.37572	0.000	0.000

333650	3085170	585.0359	1-HR	ALL	4TH	1.52223	585.0359	333650	3085170	585.0359	1-HR	ALL	4TH	1.52223	585.03589	0.000	0.000
333650	3085070	587.1148	1-HR	ALL	4TH	1.73992	587.1148	333650	3085070	587.1148	1-HR	ALL	4TH	1.73992	587.11475	0.000	0.000
333650	3083970	572.4246	1-HR	ALL	4TH	0.12097	572.4246	333650	3083970	572.4246	1-HR	ALL	4TH	0.12097	572.42457	0.000	0.000
333650	3083870	572.1469	1-HR	ALL	4TH	0.08096	572.1469	333650	3083870	572.1469	1-HR	ALL	4TH	0.08096	572.1469	0.000	0.000
333650	3083770	573.5840	1-HR	ALL	4TH	0.05865	573.584	333650	3083770	573.5840	1-HR	ALL	4TH	0.05865	573.58403	0.000	0.000
333650	3083670	576.1966	1-HR	ALL	4TH	0.00095	576.1966	333650	3083670	576.1966	1-HR	ALL	4TH	0.00095	576.19662	0.000	0.000
333650	3083570	579.8878	1-HR	ALL	4TH	0.00066	579.8878	333650	3083570	579.8878	1-HR	ALL	4TH	0.00066	579.88776	0.000	0.000
333650	3083470	584.9126	1-HR	ALL	4TH	0.00068	584.9126	333650	3083470	584.9126	1-HR	ALL	4TH	0.00068	584.91256	0.000	0.000
333650	3083370	589.5201	1-HR	ALL	4TH	0.00072	589.5201	333650	3083370	589.5201	1-HR	ALL	4TH	0.00072	589.52011	0.000	0.000
333650	3083270	591.1835	1-HR	ALL	4TH	0.00044	591.1835	333650	3083270	591.1835	1-HR	ALL	4TH	0.00044	591.18347	0.000	0.000
333650	3083170	590.9207	1-HR	ALL	4TH	0.00144	590.9207	333650	3083170	590.9207	1-HR	ALL	4TH	0.00144	590.92071	0.000	0.000
333650	3083070	591.1691	1-HR	ALL	4TH	0.00154	591.1691	333650	3083070	591.1691	1-HR	ALL	4TH	0.00154	591.16911	0.000	0.000
333650	3082970	591.1987	1-HR	ALL	4TH	0.00171	591.1987	333650	3082970	591.1987	1-HR	ALL	4TH	0.00171	591.19871	0.000	0.000
333650	3082870	590.7686	1-HR	ALL	4TH	0.00178	590.7686	333650	3082870	590.7686	1-HR	ALL	4TH	0.00178	590.76855	0.000	0.000
333650	3082770	589.9533	1-HR	ALL	4TH	0.00051	589.9533	333650	3082770	589.9533	1-HR	ALL	4TH	0.00051	589.95326	0.000	0.000
333650	3082370	592.1579	1-HR	ALL	4TH	0.00082	592.1579	333650	3082370	592.1579	1-HR	ALL	4TH	0.00082	592.15787	0.000	0.000
333650	3082270	590.6638	1-HR	ALL	4TH	0.00091	590.6638	333650	3082270	590.6638	1-HR	ALL	4TH	0.00091	590.66383	0.000	0.000
333650	3082170	591.9097	1-HR	ALL	4TH	0.00356	591.9097	333650	3082170	591.9097	1-HR	ALL	4TH	0.00356	591.90969	0.000	0.000
333650	3082070	595.8924	1-HR	ALL	4TH	0.00569	595.8924	333650	3082070	595.8924	1-HR	ALL	4TH	0.00569	595.89244	0.000	0.000
333650	3081970	600.3987	1-HR	ALL	4TH	0.00589	600.3987	333650	3081970	600.3987	1-HR	ALL	4TH	0.00589	600.39868	0.000	0.000
333650	3081870	603.9280	1-HR	ALL	4TH	0.00447	603.928	333650	3081870	603.9280	1-HR	ALL	4TH	0.00447	603.92795	0.000	0.000
333650	3081770	606.0762	1-HR	ALL	4TH	0.00478	606.0762	333650	3081770	606.0762	1-HR	ALL	4TH	0.00478	606.07617	0.000	0.000
333650	3081670	607.9269	1-HR	ALL	4TH	0.00299	607.9269	333650	3081670	607.9269	1-HR	ALL	4TH	0.00299	607.92694	0.000	0.000
333650	3081570	610.0607	1-HR	ALL	4TH	0.00326	610.0607	333650	3081570	610.0607	1-HR	ALL	4TH	0.00326	610.06068	0.000	0.000
333650	3081470	611.6730	1-HR	ALL	4TH	0.00355	611.673	333650	3081470	611.6730	1-HR	ALL	4TH	0.00355	611.67301	0.000	0.000
333550	3085470	579.4494	1-HR	ALL	4TH	0.41516	579.4494	333550	3085470	579.4494	1-HR	ALL	4TH	0.41516	579.44935	0.000	0.000
333550	3085370	580.3148	1-HR	ALL	4TH	0.19288	580.3148	333550	3085370	580.3148	1-HR	ALL	4TH	0.19288	580.31484	0.000	0.000
333550	3085270	581.7410	1-HR	ALL	4TH	1.46984	581.741	333550	3085270	581.7410	1-HR	ALL	4TH	1.46984	581.74102	0.000	0.000
333550	3085170	584.0875	1-HR	ALL	4TH	1.70793	584.0875	333550	3085170	584.0875	1-HR	ALL	4TH	1.70793	584.08748	0.000	0.000
333550	3085070	586.0109	1-HR	ALL	4TH	1.90791	586.0109	333550	3085070	586.0109	1-HR	ALL	4TH	1.90791	586.01092	0.000	0.000
333550	3083970	570.4205	1-HR	ALL	4TH	0.13519	570.4205	333550	3083970	570.4205	1-HR	ALL	4TH	0.13519	570.42048	0.000	0.000
333550	3083870	570.7453	1-HR	ALL	4TH	0.09202	570.7453	333550	3083870	570.7453	1-HR	ALL	4TH	0.09202	570.7453	0.000	0.000
333550	3083770	572.3110	1-HR	ALL	4TH	0.0657	572.311	333550	3083770	572.3110	1-HR	ALL	4TH	0.0657	572.31096	0.000	0.000
333550	3083670	575.4145	1-HR	ALL	4TH	0.0005	575.4145	333550	3083670	575.4145	1-HR	ALL	4TH	0.0005	575.41445	0.000	0.000
333550	3083570	579.8260	1-HR	ALL	4TH	0.00075	579.826	333550	3083570	579.8260	1-HR	ALL	4TH	0.00075	579.82602	0.000	0.000
333550	3083470	584.7014	1-HR	ALL	4TH	0.00076	584.7014	333550	3083470	584.7014	1-HR	ALL	4TH	0.00076	584.70143	0.000	0.000
333550	3083370	588.6299	1-HR	ALL	4TH	0.00046	588.6299	333550	3083370	588.6299	1-HR	ALL	4TH	0.00046	588.62989	0.000	0.000
333550	3083270	589.7933	1-HR	ALL	4TH	0.00048	589.7933	333550	3083270	589.7933	1-HR	ALL	4TH	0.00048	589.79328	0.000	0.000
333550	3083170	589.2787	1-HR	ALL	4TH	0.0016	589.2787	333550	3083170	589.2787	1-HR	ALL	4TH	0.0016	589.27871	0.000	0.000
333550	3083070	589.4365	1-HR	ALL	4TH	0.00174	589.4365	333550	3083070	589.4365	1-HR	ALL	4TH	0.00174	589.43645	0.000	0.000
333550	3082970	589.6900	1-HR	ALL	4TH	0.00189	589.69	333550	3082970	589.6900	1-HR	ALL	4TH	0.00189	589.68996	0.000	0.000
333550	3082870	588.6636	1-HR	ALL	4TH	0.00051	588.6636	333550	3082870	588.6636	1-HR	ALL	4TH	0.00051	588.66355	0.000	0.000
333550	3082770	587.9932	1-HR	ALL	4TH	0.00055	587.9932	333550	3082770	587.9932	1-HR	ALL	4TH	0.00055	587.99317	0.000	0.000
333550	3082670	589.2529	1-HR	ALL	4TH	0.0023	589.2529	333550	3082670	589.2529	1-HR	ALL	4TH	0.0023	589.25286	0.000	0.000
333550	3082270	588.5024	1-HR	ALL	4TH	0.00114	588.5024	333550	3082270	588.5024	1-HR	ALL	4TH	0.00114	588.50235	0.000	0.000
333550	3082170	591.0596	1-HR	ALL	4TH	0.00559	591.0596	333550	3082170	591.0596	1-HR	ALL	4TH	0.00559	591.05964	0.000	0.000
333550	3082070	595.0099	1-HR	ALL	4TH	0.00578	595.0099	333550	3082070	595.0099	1-HR	ALL	4TH	0.00578	595.00989	0.000	0.000
333550	3081970	599.1484	1-HR	ALL	4TH	0.00376	599.1484	333550	3081970	599.1484	1-HR	ALL	4TH	0.00376	599.14836	0.000	0.000
333550	3081870	602.5543	1-HR	ALL	4TH	0.00467	602.5543	333550	3081870	602.5543	1-HR	ALL	4TH	0.00467	602.5543	0.000	0.000
333550	3081770	604.5655	1-HR	ALL	4TH	0.00498	604.5655	333550	3081770	604.5655	1-HR	ALL	4TH	0.00498	604.56546	0.000	0.000
333550	3081670	606.5967	1-HR	ALL	4TH	0.00315	606.5967	333550	3081670	606.5967	1-HR	ALL	4TH	0.00315	606.59669	0.000	0.000
333550	3081570	608.6047	1-HR	ALL	4TH	0.00343	608.6047	333550	3081570	608.6047	1-HR	ALL	4TH	0.00343	608.60474	0.000	0.000
333550	3081470	610.1219	1-HR	ALL	4TH	0.00374	610.1219	333550	3081470	610.1219	1-HR	ALL	4TH	0.00374	610.12191	0.000	0.000
333550	3081370	609.2201	1-HR	ALL	4TH	0.00374	609.2201	333550	3081370	609.2201	1-HR	ALL	4TH	0.00374	609.22006	0.000	0.000

333550	3081270	607.0894	1-HR	ALL	4TH	0.00375	607.0894	333550	3081270	607.0894	1-HR	ALL	4TH	0.00375	607.0894	0.000	0.000
333450	3085570	577.5332	1-HR	ALL	4TH	0.4092	577.5332	333450	3085570	577.5332	1-HR	ALL	4TH	0.4092	577.5332	0.000	0.000
333450	3085470	577.7780	1-HR	ALL	4TH	0.52927	577.7780	333450	3085470	577.7780	1-HR	ALL	4TH	0.52927	577.77797	0.000	0.000
333450	3085370	578.7565	1-HR	ALL	4TH	0.66302	578.7565	333450	3085370	578.7565	1-HR	ALL	4TH	0.66302	578.75654	0.000	0.000
333450	3085270	580.8884	1-HR	ALL	4TH	1.65401	580.8884	333450	3085270	580.8884	1-HR	ALL	4TH	1.65401	580.88844	0.000	0.000
333450	3085170	583.0880	1-HR	ALL	4TH	1.88135	583.0880	333450	3085170	583.0880	1-HR	ALL	4TH	1.88135	583.08796	0.000	0.000
333450	3085070	584.8638	1-HR	ALL	4TH	2.05682	584.8638	333450	3085070	584.8638	1-HR	ALL	4TH	2.05682	584.86381	0.000	0.000
333450	3083970	568.6759	1-HR	ALL	4TH	0.15072	568.6759	333450	3083970	568.6759	1-HR	ALL	4TH	0.15072	568.67585	0.000	0.000
333450	3083870	569.5331	1-HR	ALL	4TH	0.10278	569.5331	333450	3083870	569.5331	1-HR	ALL	4TH	0.10278	569.5331	0.000	0.000
333450	3083770	571.5071	1-HR	ALL	4TH	0.00182	571.5071	333450	3083770	571.5071	1-HR	ALL	4TH	0.00182	571.50707	0.000	0.000
333450	3083670	574.6119	1-HR	ALL	4TH	0.00099	574.6119	333450	3083670	574.6119	1-HR	ALL	4TH	0.00099	574.61185	0.000	0.000
333450	3083570	579.7312	1-HR	ALL	4TH	0.00086	579.7312	333450	3083570	579.7312	1-HR	ALL	4TH	0.00086	579.73115	0.000	0.000
333450	3083470	584.4574	1-HR	ALL	4TH	0.00085	584.4574	333450	3083470	584.4574	1-HR	ALL	4TH	0.00085	584.45739	0.000	0.000
333450	3083370	587.3672	1-HR	ALL	4TH	0.0005	587.3672	333450	3083370	587.3672	1-HR	ALL	4TH	0.0005	587.36715	0.000	0.000
333450	3083270	588.0785	1-HR	ALL	4TH	0.0017	588.0785	333450	3083270	588.0785	1-HR	ALL	4TH	0.0017	588.07854	0.000	0.000
333450	3083170	587.6530	1-HR	ALL	4TH	0.00182	587.6530	333450	3083170	587.6530	1-HR	ALL	4TH	0.00182	587.65299	0.000	0.000
333450	3083070	587.9323	1-HR	ALL	4TH	0.00199	587.9323	333450	3083070	587.9323	1-HR	ALL	4TH	0.00199	587.93226	0.000	0.000
333450	3082970	588.2579	1-HR	ALL	4TH	0.00202	588.2579	333450	3082970	588.2579	1-HR	ALL	4TH	0.00202	588.25785	0.000	0.000
333450	3082870	586.8114	1-HR	ALL	4TH	0.00055	586.8114	333450	3082870	586.8114	1-HR	ALL	4TH	0.00055	586.81136	0.000	0.000
333450	3082770	586.4827	1-HR	ALL	4TH	0.00231	586.4827	333450	3082770	586.4827	1-HR	ALL	4TH	0.00231	586.48274	0.000	0.000
333450	3082170	590.2836	1-HR	ALL	4TH	0.00591	590.2836	333450	3082170	590.2836	1-HR	ALL	4TH	0.00591	590.28358	0.000	0.000
333450	3082070	594.3363	1-HR	ALL	4TH	0.00606	594.3363	333450	3082070	594.3363	1-HR	ALL	4TH	0.00606	594.33634	0.000	0.000
333450	3081970	598.7695	1-HR	ALL	4TH	0.00642	598.7695	333450	3081970	598.7695	1-HR	ALL	4TH	0.00642	598.76951	0.000	0.000
333450	3081870	601.1728	1-HR	ALL	4TH	0.00489	601.1728	333450	3081870	601.1728	1-HR	ALL	4TH	0.00489	601.17279	0.000	0.000
333450	3081770	603.0615	1-HR	ALL	4TH	0.0052	603.0615	333450	3081770	603.0615	1-HR	ALL	4TH	0.0052	603.06151	0.000	0.000
333450	3081670	605.2770	1-HR	ALL	4TH	0.00333	605.2770	333450	3081670	605.2770	1-HR	ALL	4TH	0.00333	605.2770	0.000	0.000
333450	3081570	607.1814	1-HR	ALL	4TH	0.00362	607.1814	333450	3081570	607.1814	1-HR	ALL	4TH	0.00362	607.18144	0.000	0.000
333450	3081470	608.2638	1-HR	ALL	4TH	0.00363	608.2638	333450	3081470	608.2638	1-HR	ALL	4TH	0.00363	608.26381	0.000	0.000
333450	3081370	607.1212	1-HR	ALL	4TH	0.00394	607.1212	333450	3081370	607.1212	1-HR	ALL	4TH	0.00394	607.12123	0.000	0.000
333450	3081270	604.7045	1-HR	ALL	4TH	0.00394	604.7045	333450	3081270	604.7045	1-HR	ALL	4TH	0.00394	604.70446	0.000	0.000
333450	3081170	601.8085	1-HR	ALL	4TH	0.0043	601.8085	333450	3081170	601.8085	1-HR	ALL	4TH	0.0043	601.80851	0.000	0.000
333450	3081070	599.3513	1-HR	ALL	4TH	0.0051	599.3513	333450	3081070	599.3513	1-HR	ALL	4TH	0.0051	599.3513	0.000	0.000
333350	3085670	576.7866	1-HR	ALL	4TH	0.1483	576.7866	333350	3085670	576.7866	1-HR	ALL	4TH	0.1483	576.78664	0.000	0.000
333350	3085570	575.7611	1-HR	ALL	4TH	0.51532	575.7611	333350	3085570	575.7611	1-HR	ALL	4TH	0.51532	575.76105	0.000	0.000
333350	3085470	576.7034	1-HR	ALL	4TH	0.26443	576.7034	333350	3085470	576.7034	1-HR	ALL	4TH	0.26443	576.70342	0.000	0.000
333350	3085370	577.6630	1-HR	ALL	4TH	1.46505	577.6630	333350	3085370	577.6630	1-HR	ALL	4TH	1.46505	577.66303	0.000	0.000
333350	3085270	579.9901	1-HR	ALL	4TH	1.83028	579.9901	333350	3085270	579.9901	1-HR	ALL	4TH	1.83028	579.99014	0.000	0.000
333350	3085170	582.0375	1-HR	ALL	4TH	2.04161	582.0375	333350	3085170	582.0375	1-HR	ALL	4TH	2.04161	582.03746	0.000	0.000
333350	3083970	567.0475	1-HR	ALL	4TH	0.1636	567.0475	333350	3083970	567.0475	1-HR	ALL	4TH	0.1636	567.04749	0.000	0.000
333350	3083870	568.2897	1-HR	ALL	4TH	0.11329	568.2897	333350	3083870	568.2897	1-HR	ALL	4TH	0.11329	568.28967	0.000	0.000
333350	3083770	570.8664	1-HR	ALL	4TH	0.00236	570.8664	333350	3083770	570.8664	1-HR	ALL	4TH	0.00236	570.8664	0.000	0.000
333350	3083670	574.6278	1-HR	ALL	4TH	0.00118	574.6278	333350	3083670	574.6278	1-HR	ALL	4TH	0.00118	574.62781	0.000	0.000
333350	3083570	579.5972	1-HR	ALL	4TH	0.00099	579.5972	333350	3083570	579.5972	1-HR	ALL	4TH	0.00099	579.59716	0.000	0.000
333350	3083470	584.1663	1-HR	ALL	4TH	0.00096	584.1663	333350	3083470	584.1663	1-HR	ALL	4TH	0.00096	584.16625	0.000	0.000
333350	3083370	586.0309	1-HR	ALL	4TH	0.00055	586.0309	333350	3083370	586.0309	1-HR	ALL	4TH	0.00055	586.03093	0.000	0.000
333350	3083270	585.9891	1-HR	ALL	4TH	0.00192	585.9891	333350	3083270	585.9891	1-HR	ALL	4TH	0.00192	585.98911	0.000	0.000
333350	3083170	586.0048	1-HR	ALL	4TH	0.00205	586.0048	333350	3083170	586.0048	1-HR	ALL	4TH	0.00205	586.00479	0.000	0.000
333350	3083070	586.1889	1-HR	ALL	4TH	0.00222	586.1889	333350	3083070	586.1889	1-HR	ALL	4TH	0.00222	586.18893	0.000	0.000
333350	3082970	585.9868	1-HR	ALL	4TH	0.00223	585.9868	333350	3082970	585.9868	1-HR	ALL	4TH	0.00223	585.98681	0.000	0.000
333350	3082870	584.9367	1-HR	ALL	4TH	0.0006	584.9367	333350	3082870	584.9367	1-HR	ALL	4TH	0.0006	584.93665	0.000	0.000
333350	3082770	585.2069	1-HR	ALL	4TH	0.00239	585.2069	333350	3082770	585.2069	1-HR	ALL	4TH	0.00239	585.20691	0.000	0.000
333350	3082670	587.0693	1-HR	ALL	4TH	0.00117	587.0693	333350	3082670	587.0693	1-HR	ALL	4TH	0.00117	587.06934	0.000	0.000
333350	3082070	593.6411	1-HR	ALL	4TH	0.00636	593.6411	333350	3082070	593.6411	1-HR	ALL	4TH	0.00636	593.64111	0.000	0.000
333350	3081970	597.6078	1-HR	ALL	4TH	0.00482	597.6078	333350	3081970	597.6078	1-HR	ALL	4TH	0.00482	597.60776	0.000	0.000

333350	3081870	599.8049	1-HR	ALL	4TH	0.00512	599.8049	333350	3081870	599.8049	1-HR	ALL	4TH	0.00512	599.80489	0.000	0.000
333350	3081770	601.5906	1-HR	ALL	4TH	0.00543	601.5906	333350	3081770	601.5906	1-HR	ALL	4TH	0.00543	601.59058	0.000	0.000
333350	3081670	603.9729	1-HR	ALL	4TH	0.00354	603.9729	333350	3081670	603.9729	1-HR	ALL	4TH	0.00354	603.97292	0.000	0.000
333350	3081570	605.7442	1-HR	ALL	4TH	0.00384	605.7442	333350	3081570	605.7442	1-HR	ALL	4TH	0.00384	605.74415	0.000	0.000
333350	3081470	606.2671	1-HR	ALL	4TH	0.00383	606.2671	333350	3081470	606.2671	1-HR	ALL	4TH	0.00383	606.2671	0.000	0.000
333350	3081370	604.9958	1-HR	ALL	4TH	0.00414	604.9958	333350	3081370	604.9958	1-HR	ALL	4TH	0.00414	604.99577	0.000	0.000
333350	3081270	602.3129	1-HR	ALL	4TH	0.00414	602.3129	333350	3081270	602.3129	1-HR	ALL	4TH	0.00414	602.31288	0.000	0.000
333350	3081170	599.5476	1-HR	ALL	4TH	0.00496	599.5476	333350	3081170	599.5476	1-HR	ALL	4TH	0.00496	599.54762	0.000	0.000
333350	3081070	597.0215	1-HR	ALL	4TH	0.0053	597.0215	333350	3081070	597.0215	1-HR	ALL	4TH	0.0053	597.02147	0.000	0.000
333250	3085670	573.9343	1-HR	ALL	4TH	0.23648	573.9343	333250	3085670	573.9343	1-HR	ALL	4TH	0.23648	573.93434	0.000	0.000
333250	3085570	573.9608	1-HR	ALL	4TH	0.63252	573.9608	333250	3085570	573.9608	1-HR	ALL	4TH	0.63252	573.96084	0.000	0.000
333250	3085470	575.0391	1-HR	ALL	4TH	0.78465	575.0391	333250	3085470	575.0391	1-HR	ALL	4TH	0.78465	575.03906	0.000	0.000
333250	3085370	576.7202	1-HR	ALL	4TH	1.76069	576.7202	333250	3085370	576.7202	1-HR	ALL	4TH	1.76069	576.72022	0.000	0.000
333250	3085270	579.0286	1-HR	ALL	4TH	1.99578	579.0286	333250	3085270	579.0286	1-HR	ALL	4TH	1.99578	579.02863	0.000	0.000
333250	3085170	580.9286	1-HR	ALL	4TH	2.1879	580.9286	333250	3085170	580.9286	1-HR	ALL	4TH	2.1879	580.92862	0.000	0.000
333250	3083870	567.0733	1-HR	ALL	4TH	0.12347	567.0733	333250	3083870	567.0733	1-HR	ALL	4TH	0.12347	567.07326	0.000	0.000
333250	3083770	570.1735	1-HR	ALL	4TH	0.00306	570.1735	333250	3083770	570.1735	1-HR	ALL	4TH	0.00306	570.17351	0.000	0.000
333250	3083670	574.5662	1-HR	ALL	4TH	0.00141	574.5662	333250	3083670	574.5662	1-HR	ALL	4TH	0.00141	574.56622	0.000	0.000
333250	3083570	579.3787	1-HR	ALL	4TH	0.00115	579.3787	333250	3083570	579.3787	1-HR	ALL	4TH	0.00115	579.37866	0.000	0.000
333250	3083470	583.4502	1-HR	ALL	4TH	0.00107	583.4502	333250	3083470	583.4502	1-HR	ALL	4TH	0.00107	583.45023	0.000	0.000
333250	3083370	584.6851	1-HR	ALL	4TH	0.0006	584.6851	333250	3083370	584.6851	1-HR	ALL	4TH	0.0006	584.68514	0.000	0.000
333250	3083270	584.1619	1-HR	ALL	4TH	0.00215	584.1619	333250	3083270	584.1619	1-HR	ALL	4TH	0.00215	584.16193	0.000	0.000
333250	3083170	584.3389	1-HR	ALL	4TH	0.00228	584.3389	333250	3083170	584.3389	1-HR	ALL	4TH	0.00228	584.33889	0.000	0.000
333250	3083070	584.3530	1-HR	ALL	4TH	0.00246	584.353	333250	3083070	584.3530	1-HR	ALL	4TH	0.00246	584.35296	0.000	0.000
333250	3082970	583.6788	1-HR	ALL	4TH	0.00062	583.6788	333250	3082970	583.6788	1-HR	ALL	4TH	0.00062	583.67876	0.000	0.000
333250	3082870	583.0314	1-HR	ALL	4TH	0.00066	583.0314	333250	3082870	583.0314	1-HR	ALL	4TH	0.00066	583.03144	0.000	0.000
333250	3082770	583.9104	1-HR	ALL	4TH	0.00248	583.9104	333250	3082770	583.9104	1-HR	ALL	4TH	0.00248	583.91036	0.000	0.000
333250	3082670	586.0095	1-HR	ALL	4TH	0.00085	586.0095	333250	3082670	586.0095	1-HR	ALL	4TH	0.00085	586.00951	0.000	0.000
333250	3082570	586.0936	1-HR	ALL	4TH	0.00098	586.0936	333250	3082570	586.0936	1-HR	ALL	4TH	0.00098	586.0936	0.000	0.000
333250	3081870	598.4515	1-HR	ALL	4TH	0.00536	598.4515	333250	3081870	598.4515	1-HR	ALL	4TH	0.00536	598.45146	0.000	0.000
333250	3081770	600.4421	1-HR	ALL	4TH	0.00294	600.4421	333250	3081770	600.4421	1-HR	ALL	4TH	0.00294	600.44207	0.000	0.000
333250	3081670	602.6446	1-HR	ALL	4TH	0.00376	602.6446	333250	3081670	602.6446	1-HR	ALL	4TH	0.00376	602.64457	0.000	0.000
333250	3081570	604.2755	1-HR	ALL	4TH	0.00406	604.2755	333250	3081570	604.2755	1-HR	ALL	4TH	0.00406	604.27552	0.000	0.000
333250	3081470	604.2471	1-HR	ALL	4TH	0.00404	604.2471	333250	3081470	604.2471	1-HR	ALL	4TH	0.00404	604.24707	0.000	0.000
333250	3081370	602.8036	1-HR	ALL	4TH	0.00403	602.8036	333250	3081370	602.8036	1-HR	ALL	4TH	0.00403	602.80362	0.000	0.000
333250	3081270	599.9154	1-HR	ALL	4TH	0.00436	599.9154	333250	3081270	599.9154	1-HR	ALL	4TH	0.00436	599.91535	0.000	0.000
333250	3081170	597.2866	1-HR	ALL	4TH	0.00517	597.2866	333250	3081170	597.2866	1-HR	ALL	4TH	0.00517	597.28662	0.000	0.000
333250	3081070	594.9753	1-HR	ALL	4TH	0.00885	594.9753	333250	3081070	594.9753	1-HR	ALL	4TH	0.00885	594.97531	0.000	0.000
333250	3080970	597.1393	1-HR	ALL	4TH	0.00932	597.1393	333250	3080970	597.1393	1-HR	ALL	4TH	0.00932	597.13928	0.000	0.000
333250	3080870	598.8200	1-HR	ALL	4TH	0.00977	598.82	333250	3080870	598.8200	1-HR	ALL	4TH	0.00977	598.81995	0.000	0.000
333150	3085770	572.7286	1-HR	ALL	4TH	0.21265	572.7286	333150	3085770	572.7286	1-HR	ALL	4TH	0.21265	572.72864	0.000	0.000
333150	3085670	572.0849	1-HR	ALL	4TH	0.61945	572.0849	333150	3085670	572.0849	1-HR	ALL	4TH	0.61945	572.0849	0.000	0.000
333150	3085570	572.6572	1-HR	ALL	4TH	0.76949	572.6572	333150	3085570	572.6572	1-HR	ALL	4TH	0.76949	572.65723	0.000	0.000
333150	3085470	573.6390	1-HR	ALL	4TH	1.54622	573.639	333150	3085470	573.6390	1-HR	ALL	4TH	1.54622	573.63901	0.000	0.000
333150	3085370	575.8542	1-HR	ALL	4TH	1.92829	575.8542	333150	3085370	575.8542	1-HR	ALL	4TH	1.92829	575.85419	0.000	0.000
333150	3085270	578.0216	1-HR	ALL	4TH	2.14997	578.0216	333150	3085270	578.0216	1-HR	ALL	4TH	2.14997	578.0216	0.000	0.000
333150	3083870	566.1960	1-HR	ALL	4TH	0.00747	566.196	333150	3083870	566.1960	1-HR	ALL	4TH	0.00747	566.196	0.000	0.000
333150	3083770	569.3740	1-HR	ALL	4TH	0.00269	569.374	333150	3083770	569.3740	1-HR	ALL	4TH	0.00269	569.37398	0.000	0.000
333150	3083670	574.4441	1-HR	ALL	4TH	0.00171	574.4441	333150	3083670	574.4441	1-HR	ALL	4TH	0.00171	574.44405	0.000	0.000
333150	3083570	579.1345	1-HR	ALL	4TH	0.00134	579.1345	333150	3083570	579.1345	1-HR	ALL	4TH	0.00134	579.13446	0.000	0.000
333150	3083470	582.2713	1-HR	ALL	4TH	0.00063	582.2713	333150	3083470	582.2713	1-HR	ALL	4TH	0.00063	582.2713	0.000	0.000
333150	3083370	583.2038	1-HR	ALL	4TH	0.00227	583.2038	333150	3083370	583.2038	1-HR	ALL	4TH	0.00227	583.20379	0.000	0.000
333150	3083270	582.5806	1-HR	ALL	4TH	0.0024	582.5806	333150	3083270	582.5806	1-HR	ALL	4TH	0.0024	582.58062	0.000	0.000
333150	3083170	582.6558	1-HR	ALL	4TH	0.00253	582.6558	333150	3083170	582.6558	1-HR	ALL	4TH	0.00253	582.65576	0.000	0.000

333150	3083070	583.2363	1-HR	ALL	4TH	0.00265	583.2363	333150	3083070	583.2363	1-HR	ALL	4TH	0.00265	583.23629	0.000	0.000
333150	3082970	581.9079	1-HR	ALL	4TH	0.00068	581.9079	333150	3082970	581.9079	1-HR	ALL	4TH	0.00068	581.90786	0.000	0.000
333150	3082870	581.1925	1-HR	ALL	4TH	0.00251	581.1925	333150	3082870	581.1925	1-HR	ALL	4TH	0.00251	581.19249	0.000	0.000
333150	3082770	582.6599	1-HR	ALL	4TH	0.00127	582.6599	333150	3082770	582.6599	1-HR	ALL	4TH	0.00127	582.6599	0.000	0.000
333150	3082670	584.9539	1-HR	ALL	4TH	0.001	584.9539	333150	3082670	584.9539	1-HR	ALL	4TH	0.001	584.95394	0.000	0.000
333150	3082570	584.0663	1-HR	ALL	4TH	0.00109	584.0663	333150	3082570	584.0663	1-HR	ALL	4TH	0.00109	584.06626	0.000	0.000
333150	3082470	582.8155	1-HR	ALL	4TH	0.00119	582.8155	333150	3082470	582.8155	1-HR	ALL	4TH	0.00119	582.81551	0.000	0.000
333150	3081870	597.0753	1-HR	ALL	4TH	0.00562	597.0753	333150	3081870	597.0753	1-HR	ALL	4TH	0.00562	597.07527	0.000	0.000
333150	3081770	599.3014	1-HR	ALL	4TH	0.0037	599.3014	333150	3081770	599.3014	1-HR	ALL	4TH	0.0037	599.30135	0.000	0.000
333150	3081670	601.2900	1-HR	ALL	4TH	0.00399	601.29	333150	3081670	601.2900	1-HR	ALL	4TH	0.00399	601.29004	0.000	0.000
333150	3081570	602.7840	1-HR	ALL	4TH	0.00431	602.784	333150	3081570	602.7840	1-HR	ALL	4TH	0.00431	602.78401	0.000	0.000
333150	3081470	602.2226	1-HR	ALL	4TH	0.00428	602.2226	333150	3081470	602.2226	1-HR	ALL	4TH	0.00428	602.22264	0.000	0.000
333150	3081370	600.5042	1-HR	ALL	4TH	0.00426	600.5042	333150	3081370	600.5042	1-HR	ALL	4TH	0.00426	600.50419	0.000	0.000
333150	3081270	597.4742	1-HR	ALL	4TH	0.00459	597.4742	333150	3081270	597.4742	1-HR	ALL	4TH	0.00459	597.47418	0.000	0.000
333150	3081170	595.0097	1-HR	ALL	4TH	0.00539	595.0097	333150	3081170	595.0097	1-HR	ALL	4TH	0.00539	595.00967	0.000	0.000
333150	3081070	593.7365	1-HR	ALL	4TH	0.00915	593.7365	333150	3081070	593.7365	1-HR	ALL	4TH	0.00915	593.73645	0.000	0.000
333150	3080970	595.7422	1-HR	ALL	4TH	0.0096	595.7422	333150	3080970	595.7422	1-HR	ALL	4TH	0.0096	595.74221	0.000	0.000
333150	3080870	597.5983	1-HR	ALL	4TH	0.02395	597.5983	333150	3080870	597.5983	1-HR	ALL	4TH	0.02395	597.5983	0.000	0.000
333150	3080770	601.5917	1-HR	ALL	4TH	0.02102	601.5917	333150	3080770	601.5917	1-HR	ALL	4TH	0.02102	601.59167	0.000	0.000
333050	3085870	569.7583	1-HR	ALL	4TH	0.21871	569.7583	333050	3085870	569.7583	1-HR	ALL	4TH	0.21871	569.75826	0.000	0.000
333050	3085770	571.1655	1-HR	ALL	4TH	0.33387	571.1655	333050	3085770	571.1655	1-HR	ALL	4TH	0.33387	571.16547	0.000	0.000
333050	3085670	570.3567	1-HR	ALL	4TH	0.74611	570.3567	333050	3085670	570.3567	1-HR	ALL	4TH	0.74611	570.35669	0.000	0.000
333050	3085570	571.6654	1-HR	ALL	4TH	0.45502	571.6654	333050	3085570	571.6654	1-HR	ALL	4TH	0.45502	571.66541	0.000	0.000
333050	3085470	572.6055	1-HR	ALL	4TH	1.69257	572.6055	333050	3085470	572.6055	1-HR	ALL	4TH	1.69257	572.60545	0.000	0.000
333050	3085370	574.9481	1-HR	ALL	4TH	2.08797	574.9481	333050	3085370	574.9481	1-HR	ALL	4TH	2.08797	574.94808	0.000	0.000
333050	3085270	576.9612	1-HR	ALL	4TH	2.29257	576.9612	333050	3085270	576.9612	1-HR	ALL	4TH	2.29257	576.96119	0.000	0.000
333050	3083870	565.5728	1-HR	ALL	4TH	0.00968	565.5728	333050	3083870	565.5728	1-HR	ALL	4TH	0.00968	565.57275	0.000	0.000
333050	3083770	569.3925	1-HR	ALL	4TH	0.00333	569.3925	333050	3083770	569.3925	1-HR	ALL	4TH	0.00333	569.39246	0.000	0.000
333050	3083670	574.3076	1-HR	ALL	4TH	0.00207	574.3076	333050	3083670	574.3076	1-HR	ALL	4TH	0.00207	574.30762	0.000	0.000
333050	3083570	578.8695	1-HR	ALL	4TH	0.00158	578.8695	333050	3083570	578.8695	1-HR	ALL	4TH	0.00158	578.86954	0.000	0.000
333050	3083470	581.0004	1-HR	ALL	4TH	0.00069	581.0004	333050	3083470	581.0004	1-HR	ALL	4TH	0.00069	581.00037	0.000	0.000
333050	3083370	581.1782	1-HR	ALL	4TH	0.00251	581.1782	333050	3083370	581.1782	1-HR	ALL	4TH	0.00251	581.17824	0.000	0.000
333050	3083270	580.9690	1-HR	ALL	4TH	0.00267	580.969	333050	3083270	580.9690	1-HR	ALL	4TH	0.00267	580.96898	0.000	0.000
333050	3083170	581.1551	1-HR	ALL	4TH	0.00284	581.1551	333050	3083170	581.1551	1-HR	ALL	4TH	0.00284	581.15507	0.000	0.000
333050	3083070	581.1336	1-HR	ALL	4TH	0.00278	581.1336	333050	3083070	581.1336	1-HR	ALL	4TH	0.00278	581.13361	0.000	0.000
333050	3082970	580.0779	1-HR	ALL	4TH	0.00075	580.0779	333050	3082970	580.0779	1-HR	ALL	4TH	0.00075	580.07793	0.000	0.000
333050	3082870	579.9743	1-HR	ALL	4TH	0.00262	579.9743	333050	3082870	579.9743	1-HR	ALL	4TH	0.00262	579.97433	0.000	0.000
333050	3082770	581.6249	1-HR	ALL	4TH	0.00137	581.6249	333050	3082770	581.6249	1-HR	ALL	4TH	0.00137	581.62486	0.000	0.000
333050	3082670	583.0199	1-HR	ALL	4TH	0.00111	583.0199	333050	3082670	583.0199	1-HR	ALL	4TH	0.00111	583.01986	0.000	0.000
333050	3082570	582.0267	1-HR	ALL	4TH	0.00121	582.0267	333050	3082570	582.0267	1-HR	ALL	4TH	0.00121	582.02665	0.000	0.000
333050	3082470	580.6786	1-HR	ALL	4TH	0.00131	580.6786	333050	3082470	580.6786	1-HR	ALL	4TH	0.00131	580.6786	0.000	0.000
333050	3081670	599.9114	1-HR	ALL	4TH	0.00425	599.9114	333050	3081670	599.9114	1-HR	ALL	4TH	0.00425	599.91135	0.000	0.000
333050	3081570	601.2664	1-HR	ALL	4TH	0.00421	601.2664	333050	3081570	601.2664	1-HR	ALL	4TH	0.00421	601.26639	0.000	0.000
333050	3081470	600.1606	1-HR	ALL	4TH	0.00452	600.1606	333050	3081470	600.1606	1-HR	ALL	4TH	0.00452	600.1606	0.000	0.000
333050	3081370	598.1357	1-HR	ALL	4TH	0.0045	598.1357	333050	3081370	598.1357	1-HR	ALL	4TH	0.0045	598.13567	0.000	0.000
333050	3081270	595.1331	1-HR	ALL	4TH	0.00482	595.1331	333050	3081270	595.1331	1-HR	ALL	4TH	0.00482	595.13309	0.000	0.000
333050	3081170	592.6150	1-HR	ALL	4TH	0.00556	592.615	333050	3081170	592.6150	1-HR	ALL	4TH	0.00556	592.61501	0.000	0.000
333050	3081070	592.4475	1-HR	ALL	4TH	0.00944	592.4475	333050	3081070	592.4475	1-HR	ALL	4TH	0.00944	592.44747	0.000	0.000
333050	3080970	594.3316	1-HR	ALL	4TH	0.00988	594.3316	333050	3080970	594.3316	1-HR	ALL	4TH	0.00988	594.33163	0.000	0.000
333050	3080870	597.2065	1-HR	ALL	4TH	0.02414	597.2065	333050	3080870	597.2065	1-HR	ALL	4TH	0.02414	597.20645	0.000	0.000
333050	3080770	600.3673	1-HR	ALL	4TH	0.02115	600.3673	333050	3080770	600.3673	1-HR	ALL	4TH	0.02115	600.36733	0.000	0.000
333050	3080670	603.2972	1-HR	ALL	4TH	0.02092	603.2972	333050	3080670	603.2972	1-HR	ALL	4TH	0.02092	603.29715	0.000	0.000
332950	3085870	568.6848	1-HR	ALL	4TH	0.28838	568.6848	332950	3085870	568.6848	1-HR	ALL	4TH	0.28838	568.68483	0.000	0.000
332950	3085770	568.4246	1-HR	ALL	4TH	0.72909	568.4246	332950	3085770	568.4246	1-HR	ALL	4TH	0.72909	568.42459	0.000	0.000

332950	3085670	568.9058	1-HR	ALL	4TH	0.8905	568.9058
332950	3085570	570.0006	1-HR	ALL	4TH	1.05665	570.0006
332950	3085470	571.7272	1-HR	ALL	4TH	2.00912	571.7272
332950	3085370	573.9956	1-HR	ALL	4TH	2.23821	573.9956
332950	3083870	564.9023	1-HR	ALL	4TH	0.01233	564.9023
332950	3083770	569.3785	1-HR	ALL	4TH	0.00411	569.3785
332950	3083670	574.1559	1-HR	ALL	4TH	0.00252	574.1559
332950	3083570	578.1535	1-HR	ALL	4TH	0.00182	578.1535
332950	3083470	579.6917	1-HR	ALL	4TH	0.00076	579.6917
332950	3083370	579.1206	1-HR	ALL	4TH	0.00284	579.1206
332950	3083270	579.3300	1-HR	ALL	4TH	0.00295	579.33
332950	3083170	579.4195	1-HR	ALL	4TH	0.00313	579.4195
332950	3083070	578.9620	1-HR	ALL	4TH	0.00303	578.962
332950	3082970	578.3134	1-HR	ALL	4TH	0.00084	578.3134
332950	3082870	578.7681	1-HR	ALL	4TH	0.00274	578.7681
332950	3082770	580.6291	1-HR	ALL	4TH	0.00107	580.6291
332950	3082670	581.0589	1-HR	ALL	4TH	0.00124	581.0589
332950	3082570	579.9780	1-HR	ALL	4TH	0.00134	579.978
332950	3082470	578.5531	1-HR	ALL	4TH	0.00146	578.5531
332950	3082370	579.0071	1-HR	ALL	4TH	0.00536	579.0071
332950	3081570	599.3121	1-HR	ALL	4TH	0.00446	599.3121
332950	3081470	598.0667	1-HR	ALL	4TH	0.00478	598.0667
332950	3081370	595.7990	1-HR	ALL	4TH	0.00475	595.799
332950	3081270	592.8974	1-HR	ALL	4TH	0.00554	592.8974
332950	3081170	590.4453	1-HR	ALL	4TH	0.00587	590.4453
332950	3081070	591.1404	1-HR	ALL	4TH	0.00975	591.1404
332950	3080970	592.9080	1-HR	ALL	4TH	0.01017	592.908
332950	3080870	596.2311	1-HR	ALL	4TH	0.02108	596.2311
332950	3080770	599.1426	1-HR	ALL	4TH	0.02127	599.1426
332950	3080670	602.4901	1-HR	ALL	4TH	0.02104	602.4901
332950	3080570	601.5087	1-HR	ALL	4TH	0.02481	601.5087
332850	3085970	565.6870	1-HR	ALL	4TH	0.2919	565.687
332850	3085870	567.5809	1-HR	ALL	4TH	0.36965	567.5809
332850	3085770	566.7628	1-HR	ALL	4TH	0.86273	566.7628
332850	3085670	567.6595	1-HR	ALL	4TH	1.03612	567.6595
332850	3085570	568.6424	1-HR	ALL	4TH	1.754	568.6424
332850	3085470	570.8712	1-HR	ALL	4TH	2.16362	570.8712
332850	3085370	572.9954	1-HR	ALL	4TH	2.37781	572.9954
332850	3083770	569.2958	1-HR	ALL	4TH	0.00507	569.2958
332850	3083670	573.9229	1-HR	ALL	4TH	0.00308	573.9229
332850	3083570	577.2636	1-HR	ALL	4TH	0.00083	577.2636
332850	3083470	578.3166	1-HR	ALL	4TH	0.00083	578.3166
332850	3083370	577.5478	1-HR	ALL	4TH	0.00313	577.5478
332850	3083270	577.6604	1-HR	ALL	4TH	0.00324	577.6604
332850	3083170	577.9793	1-HR	ALL	4TH	0.00332	577.9793
332850	3083070	577.1450	1-HR	ALL	4TH	0.00088	577.145
332850	3082970	576.4337	1-HR	ALL	4TH	0.00093	576.4337
332850	3082870	577.4009	1-HR	ALL	4TH	0.00286	577.4009
332850	3082770	579.6345	1-HR	ALL	4TH	0.00119	579.6345
332850	3082670	579.0929	1-HR	ALL	4TH	0.00139	579.0929
332850	3082570	577.9496	1-HR	ALL	4TH	0.0015	577.9496
332850	3082470	576.4441	1-HR	ALL	4TH	0.00162	576.4441
332850	3082370	578.0448	1-HR	ALL	4TH	0.00573	578.0448
332850	3082270	581.7802	1-HR	ALL	4TH	0.00768	581.7802

332950	3085670	568.9058	1-HR	ALL	4TH	0.8905	568.90581	0.000	0.000
332950	3085570	570.0006	1-HR	ALL	4TH	1.05665	570.00063	0.000	0.000
332950	3085470	571.7272	1-HR	ALL	4TH	2.00912	571.72722	0.000	0.000
332950	3085370	573.9956	1-HR	ALL	4TH	2.23821	573.9956	0.000	0.000
332950	3083870	564.9023	1-HR	ALL	4TH	0.01233	564.90231	0.000	0.000
332950	3083770	569.3785	1-HR	ALL	4TH	0.00411	569.37846	0.000	0.000
332950	3083670	574.1559	1-HR	ALL	4TH	0.00252	574.15587	0.000	0.000
332950	3083570	578.1535	1-HR	ALL	4TH	0.00182	578.1535	0.000	0.000
332950	3083470	579.6917	1-HR	ALL	4TH	0.00076	579.69172	0.000	0.000
332950	3083370	579.1206	1-HR	ALL	4TH	0.00284	579.12063	0.000	0.000
332950	3083270	579.3300	1-HR	ALL	4TH	0.00295	579.32997	0.000	0.000
332950	3083170	579.4195	1-HR	ALL	4TH	0.00313	579.41951	0.000	0.000
332950	3083070	578.9620	1-HR	ALL	4TH	0.00303	578.96199	0.000	0.000
332950	3082970	578.3134	1-HR	ALL	4TH	0.00084	578.31342	0.000	0.000
332950	3082870	578.7681	1-HR	ALL	4TH	0.00274	578.76805	0.000	0.000
332950	3082770	580.6291	1-HR	ALL	4TH	0.00107	580.62908	0.000	0.000
332950	3082670	581.0589	1-HR	ALL	4TH	0.00124	581.05886	0.000	0.000
332950	3082570	579.9780	1-HR	ALL	4TH	0.00134	579.97796	0.000	0.000
332950	3082470	578.5531	1-HR	ALL	4TH	0.00146	578.55305	0.000	0.000
332950	3082370	579.0071	1-HR	ALL	4TH	0.00536	579.00706	0.000	0.000
332950	3081570	599.3121	1-HR	ALL	4TH	0.00446	599.31205	0.000	0.000
332950	3081470	598.0667	1-HR	ALL	4TH	0.00478	598.0667	0.000	0.000
332950	3081370	595.7990	1-HR	ALL	4TH	0.00475	595.799	0.000	0.000
332950	3081270	592.8974	1-HR	ALL	4TH	0.00554	592.89736	0.000	0.000
332950	3081170	590.4453	1-HR	ALL	4TH	0.00587	590.44526	0.000	0.000
332950	3081070	591.1404	1-HR	ALL	4TH	0.00975	591.14035	0.000	0.000
332950	3080970	592.9080	1-HR	ALL	4TH	0.01017	592.90796	0.000	0.000
332950	3080870	596.2311	1-HR	ALL	4TH	0.02108	596.23114	0.000	0.000
332950	3080770	599.1426	1-HR	ALL	4TH	0.02127	599.14264	0.000	0.000
332950	3080670	602.4901	1-HR	ALL	4TH	0.02104	602.49008	0.000	0.000
332950	3080570	601.5087	1-HR	ALL	4TH	0.02481	601.50871	0.000	0.000
332850	3085970	565.6870	1-HR	ALL	4TH	0.2919	565.68702	0.000	0.000
332850	3085870	567.5809	1-HR	ALL	4TH	0.36965	567.58085	0.000	0.000
332850	3085770	566.7628	1-HR	ALL	4TH	0.86273	566.7628	0.000	0.000
332850	3085670	567.6595	1-HR	ALL	4TH	1.03612	567.6595	0.000	0.000
332850	3085570	568.6424	1-HR	ALL	4TH	1.754	568.64239	0.000	0.000
332850	3085470	570.8712	1-HR	ALL	4TH	2.16362	570.87119	0.000	0.000
332850	3085370	572.9954	1-HR	ALL	4TH	2.37781	572.99542	0.000	0.000
332850	3083770	569.2958	1-HR	ALL	4TH	0.00507	569.29577	0.000	0.000
332850	3083670	573.9229	1-HR	ALL	4TH	0.00308	573.92285	0.000	0.000
332850	3083570	577.2636	1-HR	ALL	4TH	0.00083	577.26364	0.000	0.000
332850	3083470	578.3166	1-HR	ALL	4TH	0.00083	578.31659	0.000	0.000
332850	3083370	577.5478	1-HR	ALL	4TH	0.00313	577.54783	0.000	0.000
332850	3083270	577.6604	1-HR	ALL	4TH	0.00324	577.66039	0.000	0.000
332850	3083170	577.9793	1-HR	ALL	4TH	0.00332	577.97929	0.000	0.000
332850	3083070	577.1450	1-HR	ALL	4TH	0.00088	577.14499	0.000	0.000
332850	3082970	576.4337	1-HR	ALL	4TH	0.00093	576.43367	0.000	0.000
332850	3082870	577.4009	1-HR	ALL	4TH	0.00286	577.40089	0.000	0.000
332850	3082770	579.6345	1-HR	ALL	4TH	0.00119	579.6345	0.000	0.000
332850	3082670	579.0929	1-HR	ALL	4TH	0.00139	579.09293	0.000	0.000
332850	3082570	577.9496	1-HR	ALL	4TH	0.0015	577.94956	0.000	0.000
332850	3082470	576.4441	1-HR	ALL	4TH	0.00162	576.44411	0.000	0.000
332850	3082370	578.0448	1-HR	ALL	4TH	0.00573	578.04476	0.000	0.000
332850	3082270	581.7802	1-HR	ALL	4TH	0.00768	581.78018	0.000	0.000

332850	3081370	593.4296	1-HR	ALL	4TH	0.00503	593.4296	332850	3081370	593.4296	1-HR	ALL	4TH	0.00503	593.42958	0.000	0.000
332850	3081270	590.6985	1-HR	ALL	4TH	0.00579	590.6985	332850	3081270	590.6985	1-HR	ALL	4TH	0.00579	590.69846	0.000	0.000
332850	3081170	588.1629	1-HR	ALL	4TH	0.00756	588.1629	332850	3081170	588.1629	1-HR	ALL	4TH	0.00756	588.16294	0.000	0.000
332850	3081070	589.8276	1-HR	ALL	4TH	0.01005	589.8276	332850	3081070	589.8276	1-HR	ALL	4TH	0.01005	589.82764	0.000	0.000
332850	3080970	591.5042	1-HR	ALL	4TH	0.01046	591.5042	332850	3080970	591.5042	1-HR	ALL	4TH	0.01046	591.50423	0.000	0.000
332850	3080870	595.0966	1-HR	ALL	4TH	0.02121	595.0966	332850	3080870	595.0966	1-HR	ALL	4TH	0.02121	595.09659	0.000	0.000
332850	3080770	597.9022	1-HR	ALL	4TH	0.0214	597.9022	332850	3080770	597.9022	1-HR	ALL	4TH	0.0214	597.90215	0.000	0.000
332850	3080670	601.5017	1-HR	ALL	4TH	0.02126	601.5017	332850	3080670	601.5017	1-HR	ALL	4TH	0.02126	601.50172	0.000	0.000
332850	3080570	598.9714	1-HR	ALL	4TH	0.02498	598.9714	332850	3080570	598.9714	1-HR	ALL	4TH	0.02498	598.97142	0.000	0.000
332850	3080470	594.9773	1-HR	ALL	4TH	0.01613	594.9773	332850	3080470	594.9773	1-HR	ALL	4TH	0.01613	594.97725	0.000	0.000
332750	3085970	564.6749	1-HR	ALL	4TH	0.37164	564.6749	332750	3085970	564.6749	1-HR	ALL	4TH	0.37164	564.67491	0.000	0.000
332750	3085870	565.4185	1-HR	ALL	4TH	0.56717	565.4185	332750	3085870	565.4185	1-HR	ALL	4TH	0.56717	565.41852	0.000	0.000
332750	3085770	565.1636	1-HR	ALL	4TH	1.01056	565.1636	332750	3085770	565.1636	1-HR	ALL	4TH	1.01056	565.16357	0.000	0.000
332750	3085670	566.7683	1-HR	ALL	4TH	0.69089	566.7683	332750	3085670	566.7683	1-HR	ALL	4TH	0.69089	566.76828	0.000	0.000
332750	3085570	567.6107	1-HR	ALL	4TH	1.89019	567.6107	332750	3085570	567.6107	1-HR	ALL	4TH	1.89019	567.61065	0.000	0.000
332750	3085470	569.9700	1-HR	ALL	4TH	2.31007	569.97	332750	3085470	569.9700	1-HR	ALL	4TH	2.31007	569.96995	0.000	0.000
332750	3085370	571.9556	1-HR	ALL	4TH	2.50628	571.9556	332750	3085370	571.9556	1-HR	ALL	4TH	2.50628	571.95561	0.000	0.000
332750	3083770	569.1763	1-HR	ALL	4TH	0.00622	569.1763	332750	3083770	569.1763	1-HR	ALL	4TH	0.00622	569.17633	0.000	0.000
332750	3083670	573.6448	1-HR	ALL	4TH	0.00566	573.6448	332750	3083670	573.6448	1-HR	ALL	4TH	0.00566	573.64477	0.000	0.000
332750	3083570	575.9985	1-HR	ALL	4TH	0.00093	575.9985	332750	3083570	575.9985	1-HR	ALL	4TH	0.00093	575.9985	0.000	0.000
332750	3083470	576.3774	1-HR	ALL	4TH	0.00323	576.3774	332750	3083470	576.3774	1-HR	ALL	4TH	0.00323	576.37736	0.000	0.000
332750	3083370	575.9582	1-HR	ALL	4TH	0.00345	575.9582	332750	3083370	575.9582	1-HR	ALL	4TH	0.00345	575.95823	0.000	0.000
332750	3083270	576.1385	1-HR	ALL	4TH	0.00367	576.1385	332750	3083270	576.1385	1-HR	ALL	4TH	0.00367	576.13848	0.000	0.000
332750	3083170	576.3956	1-HR	ALL	4TH	0.00342	576.3956	332750	3083170	576.3956	1-HR	ALL	4TH	0.00342	576.39563	0.000	0.000
332750	3083070	575.2200	1-HR	ALL	4TH	0.00098	575.22	332750	3083070	575.2200	1-HR	ALL	4TH	0.00098	575.21999	0.000	0.000
332750	3082970	574.7628	1-HR	ALL	4TH	0.00292	574.7628	332750	3082970	574.7628	1-HR	ALL	4TH	0.00292	574.76281	0.000	0.000
332750	3082870	576.2121	1-HR	ALL	4TH	0.00164	576.2121	332750	3082870	576.2121	1-HR	ALL	4TH	0.00164	576.21214	0.000	0.000
332750	3082770	578.0404	1-HR	ALL	4TH	0.00145	578.0404	332750	3082770	578.0404	1-HR	ALL	4TH	0.00145	578.04038	0.000	0.000
332750	3082670	577.1640	1-HR	ALL	4TH	0.00155	577.164	332750	3082670	577.1640	1-HR	ALL	4TH	0.00155	577.16403	0.000	0.000
332750	3082570	575.9282	1-HR	ALL	4TH	0.00167	575.9282	332750	3082570	575.9282	1-HR	ALL	4TH	0.00167	575.9282	0.000	0.000
332750	3082470	574.5497	1-HR	ALL	4TH	0.00494	574.5497	332750	3082470	574.5497	1-HR	ALL	4TH	0.00494	574.54969	0.000	0.000
332750	3082370	577.3110	1-HR	ALL	4TH	0.00776	577.311	332750	3082370	577.3110	1-HR	ALL	4TH	0.00776	577.31097	0.000	0.000
332750	3082270	580.9831	1-HR	ALL	4TH	0.00807	580.9831	332750	3082270	580.9831	1-HR	ALL	4TH	0.00807	580.98307	0.000	0.000
332750	3081270	588.7107	1-HR	ALL	4TH	0.00606	588.7107	332750	3081270	588.7107	1-HR	ALL	4TH	0.00606	588.71071	0.000	0.000
332750	3081170	586.6492	1-HR	ALL	4TH	0.00997	586.6492	332750	3081170	586.6492	1-HR	ALL	4TH	0.00997	586.64921	0.000	0.000
332750	3081070	588.5095	1-HR	ALL	4TH	0.01036	588.5095	332750	3081070	588.5095	1-HR	ALL	4TH	0.01036	588.50948	0.000	0.000
332750	3080970	590.0787	1-HR	ALL	4TH	0.01075	590.0787	332750	3080970	590.0787	1-HR	ALL	4TH	0.01075	590.07866	0.000	0.000
332750	3080870	593.9388	1-HR	ALL	4TH	0.02134	593.9388	332750	3080870	593.9388	1-HR	ALL	4TH	0.02134	593.93884	0.000	0.000
332750	3080770	596.6448	1-HR	ALL	4TH	0.02152	596.6448	332750	3080770	596.6448	1-HR	ALL	4TH	0.02152	596.64477	0.000	0.000
332750	3080670	599.6116	1-HR	ALL	4TH	0.0249	599.6116	332750	3080670	599.6116	1-HR	ALL	4TH	0.0249	599.61161	0.000	0.000
332750	3080570	596.2937	1-HR	ALL	4TH	0.01914	596.2937	332750	3080570	596.2937	1-HR	ALL	4TH	0.01914	596.29368	0.000	0.000
332750	3080470	592.7889	1-HR	ALL	4TH	0.01629	592.7889	332750	3080470	592.7889	1-HR	ALL	4TH	0.01629	592.78893	0.000	0.000
332750	3080370	592.4634	1-HR	ALL	4TH	0.02063	592.4634	332750	3080370	592.4634	1-HR	ALL	4TH	0.02063	592.4634	0.000	0.000
332650	3085970	563.6478	1-HR	ALL	4TH	0.46189	563.6478	332650	3085970	563.6478	1-HR	ALL	4TH	0.46189	563.64781	0.000	0.000
332650	3085870	563.1899	1-HR	ALL	4TH	0.97847	563.1899	332650	3085870	563.1899	1-HR	ALL	4TH	0.97847	563.18994	0.000	0.000
332650	3085770	563.9784	1-HR	ALL	4TH	1.15847	563.9784	332650	3085770	563.9784	1-HR	ALL	4TH	1.15847	563.97844	0.000	0.000
332650	3085670	565.0541	1-HR	ALL	4TH	1.33857	565.0541	332650	3085670	565.0541	1-HR	ALL	4TH	1.33857	565.05412	0.000	0.000
332650	3085570	566.7863	1-HR	ALL	4TH	2.22665	566.7863	332650	3085570	566.7863	1-HR	ALL	4TH	2.22665	566.78625	0.000	0.000
332650	3085470	569.0320	1-HR	ALL	4TH	2.44754	569.032	332650	3085470	569.0320	1-HR	ALL	4TH	2.44754	569.03198	0.000	0.000
332650	3083770	568.9962	1-HR	ALL	4TH	0.00759	568.9962	332650	3083770	568.9962	1-HR	ALL	4TH	0.00759	568.99622	0.000	0.000
332650	3083670	572.8977	1-HR	ALL	4TH	0.00451	572.8977	332650	3083670	572.8977	1-HR	ALL	4TH	0.00451	572.89768	0.000	0.000
332650	3083570	574.7021	1-HR	ALL	4TH	0.00104	574.7021	332650	3083570	574.7021	1-HR	ALL	4TH	0.00104	574.70211	0.000	0.000
332650	3083470	574.3474	1-HR	ALL	4TH	0.00352	574.3474	332650	3083470	574.3474	1-HR	ALL	4TH	0.00352	574.34736	0.000	0.000
332650	3083370	574.3305	1-HR	ALL	4TH	0.00378	574.3305	332650	3083370	574.3305	1-HR	ALL	4TH	0.00378	574.33049	0.000	0.000

332450	3083270	571.6951	1-HR	ALL	4TH	0.00414	571.6951	332450	3083270	571.6951	1-HR	ALL	4TH	0.00414	571.69512	0.000	0.000
332450	3083170	570.6913	1-HR	ALL	4TH	0.00132	570.6913	332450	3083170	570.6913	1-HR	ALL	4TH	0.00132	570.69134	0.000	0.000
332450	3082470	571.4899	1-HR	ALL	4TH	0.00705	571.4899	332450	3082470	571.4899	1-HR	ALL	4TH	0.00705	571.48986	0.000	0.000
332450	3082370	575.1373	1-HR	ALL	4TH	0.00897	575.1373	332450	3082370	575.1373	1-HR	ALL	4TH	0.00897	575.13725	0.000	0.000
332450	3082270	578.8314	1-HR	ALL	4TH	0.00602	578.8314	332450	3082270	578.8314	1-HR	ALL	4TH	0.00602	578.83135	0.000	0.000
332450	3082170	582.3133	1-HR	ALL	4TH	0.00689	582.3133	332450	3082170	582.3133	1-HR	ALL	4TH	0.00689	582.31329	0.000	0.000
332450	3082070	584.2623	1-HR	ALL	4TH	0.00715	584.2623	332450	3082070	584.2623	1-HR	ALL	4TH	0.00715	584.26225	0.000	0.000
332450	3080570	588.3642	1-HR	ALL	4TH	0.01655	588.3642	332450	3080570	588.3642	1-HR	ALL	4TH	0.01655	588.36418	0.000	0.000
332450	3080470	586.9240	1-HR	ALL	4TH	0.02097	586.924	332450	3080470	586.9240	1-HR	ALL	4TH	0.02097	586.92395	0.000	0.000
332450	3080370	586.6083	1-HR	ALL	4TH	0.01373	586.6083	332450	3080370	586.6083	1-HR	ALL	4TH	0.01373	586.60831	0.000	0.000
332350	3086070	558.8449	1-HR	ALL	4TH	0.66098	558.8449	332350	3086070	558.8449	1-HR	ALL	4TH	0.66098	558.84486	0.000	0.000
332350	3085970	558.1368	1-HR	ALL	4TH	1.23454	558.1368	332350	3085970	558.1368	1-HR	ALL	4TH	1.23454	558.13677	0.000	0.000
332350	3085870	559.1876	1-HR	ALL	4TH	1.42089	559.1876	332350	3085870	559.1876	1-HR	ALL	4TH	1.42089	559.18757	0.000	0.000
332350	3085770	560.2119	1-HR	ALL	4TH	1.60794	560.2119	332350	3085770	560.2119	1-HR	ALL	4TH	1.60794	560.21192	0.000	0.000
332350	3085670	561.9434	1-HR	ALL	4TH	2.41866	561.9434	332350	3085670	561.9434	1-HR	ALL	4TH	2.41866	561.9434	0.000	0.000
332350	3083670	569.8064	1-HR	ALL	4TH	0.00172	569.8064	332350	3083670	569.8064	1-HR	ALL	4TH	0.00172	569.80639	0.000	0.000
332350	3083570	569.6677	1-HR	ALL	4TH	0.00468	569.6677	332350	3083570	569.6677	1-HR	ALL	4TH	0.00468	569.66772	0.000	0.000
332350	3083470	569.4331	1-HR	ALL	4TH	0.00509	569.4331	332350	3083470	569.4331	1-HR	ALL	4TH	0.00509	569.43312	0.000	0.000
332350	3082470	570.7649	1-HR	ALL	4TH	0.00911	570.7649	332350	3082470	570.7649	1-HR	ALL	4TH	0.00911	570.7649	0.000	0.000
332350	3082370	574.3459	1-HR	ALL	4TH	0.00937	574.3459	332350	3082370	574.3459	1-HR	ALL	4TH	0.00937	574.34593	0.000	0.000
332350	3082270	578.4051	1-HR	ALL	4TH	0.009	578.4051	332350	3082270	578.4051	1-HR	ALL	4TH	0.009	578.40511	0.000	0.000
332350	3082170	581.1556	1-HR	ALL	4TH	0.00721	581.1556	332350	3082170	581.1556	1-HR	ALL	4TH	0.00721	581.15555	0.000	0.000
332350	3082070	582.9417	1-HR	ALL	4TH	0.00747	582.9417	332350	3082070	582.9417	1-HR	ALL	4TH	0.00747	582.94168	0.000	0.000
332350	3081970	585.3157	1-HR	ALL	4TH	0.00552	585.3157	332350	3081970	585.3157	1-HR	ALL	4TH	0.00552	585.31565	0.000	0.000
332250	3086170	555.9706	1-HR	ALL	4TH	0.64806	555.9706	332250	3086170	555.9706	1-HR	ALL	4TH	0.64806	555.97061	0.000	0.000
332250	3086070	557.4189	1-HR	ALL	4TH	1.02127	557.4189	332250	3086070	557.4189	1-HR	ALL	4TH	1.02127	557.4189	0.000	0.000
332250	3085970	556.7017	1-HR	ALL	4TH	1.37539	556.7017	332250	3085970	556.7017	1-HR	ALL	4TH	1.37539	556.70169	0.000	0.000
332250	3085870	558.0486	1-HR	ALL	4TH	1.07667	558.0486	332250	3085870	558.0486	1-HR	ALL	4TH	1.07667	558.0486	0.000	0.000
332250	3085770	558.8953	1-HR	ALL	4TH	1.75219	558.8953	332250	3085770	558.8953	1-HR	ALL	4TH	1.75219	558.89533	0.000	0.000
332250	3083670	568.5090	1-HR	ALL	4TH	0.00196	568.509	332250	3083670	568.5090	1-HR	ALL	4TH	0.00196	568.50903	0.000	0.000
332250	3083570	567.6937	1-HR	ALL	4TH	0.00638	567.6937	332250	3083570	567.6937	1-HR	ALL	4TH	0.00638	567.69366	0.000	0.000
332250	3083470	567.8798	1-HR	ALL	4TH	0.00563	567.8798	332250	3083470	567.8798	1-HR	ALL	4TH	0.00563	567.8798	0.000	0.000
332250	3082370	573.6112	1-HR	ALL	4TH	0.00911	573.6112	332250	3082370	573.6112	1-HR	ALL	4TH	0.00911	573.61118	0.000	0.000
332250	3082270	577.6753	1-HR	ALL	4TH	0.00932	577.6753	332250	3082270	577.6753	1-HR	ALL	4TH	0.00932	577.67532	0.000	0.000
332250	3082170	579.9167	1-HR	ALL	4TH	0.00755	579.9167	332250	3082170	579.9167	1-HR	ALL	4TH	0.00755	579.91673	0.000	0.000
332250	3082070	581.6116	1-HR	ALL	4TH	0.00779	581.6116	332250	3082070	581.6116	1-HR	ALL	4TH	0.00779	581.61159	0.000	0.000
332250	3081970	584.1323	1-HR	ALL	4TH	0.00588	584.1323	332250	3081970	584.1323	1-HR	ALL	4TH	0.00588	584.13231	0.000	0.000
332250	3081870	585.8904	1-HR	ALL	4TH	0.00617	585.8904	332250	3081870	585.8904	1-HR	ALL	4TH	0.00617	585.89043	0.000	0.000
332150	3086170	555.0533	1-HR	ALL	4TH	0.75705	555.0533	332150	3086170	555.0533	1-HR	ALL	4TH	0.75705	555.05326	0.000	0.000
332150	3086070	554.6745	1-HR	ALL	4TH	1.33768	554.6745	332150	3086070	554.6745	1-HR	ALL	4TH	1.33768	554.67446	0.000	0.000
332150	3085970	555.6003	1-HR	ALL	4TH	1.51971	555.6003	332150	3085970	555.6003	1-HR	ALL	4TH	1.51971	555.60026	0.000	0.000
332150	3085870	557.1265	1-HR	ALL	4TH	1.24808	557.1265	332150	3085870	557.1265	1-HR	ALL	4TH	1.24808	557.12654	0.000	0.000
332150	3083570	566.2122	1-HR	ALL	4TH	0.00721	566.2122	332150	3083570	566.2122	1-HR	ALL	4TH	0.00721	566.21224	0.000	0.000
332150	3083470	566.2937	1-HR	ALL	4TH	0.00623	566.2937	332150	3083470	566.2937	1-HR	ALL	4TH	0.00623	566.29367	0.000	0.000
332150	3082270	576.6523	1-HR	ALL	4TH	0.00766	576.6523	332150	3082270	576.6523	1-HR	ALL	4TH	0.00766	576.65234	0.000	0.000
332150	3082170	578.6571	1-HR	ALL	4TH	0.00789	578.6571	332150	3082170	578.6571	1-HR	ALL	4TH	0.00789	578.65707	0.000	0.000
332150	3082070	580.2348	1-HR	ALL	4TH	0.00812	580.2348	332150	3082070	580.2348	1-HR	ALL	4TH	0.00812	580.2348	0.000	0.000
332150	3081970	582.9229	1-HR	ALL	4TH	0.00625	582.9229	332150	3081970	582.9229	1-HR	ALL	4TH	0.00625	582.92292	0.000	0.000
332150	3081870	584.5630	1-HR	ALL	4TH	0.00654	584.563	332150	3081870	584.5630	1-HR	ALL	4TH	0.00654	584.56298	0.000	0.000
332050	3086070	553.1566	1-HR	ALL	4TH	1.48257	553.1566	332050	3086070	553.1566	1-HR	ALL	4TH	1.48257	553.15659	0.000	0.000
332050	3085970	554.4552	1-HR	ALL	4TH	1.66197	554.4552	332050	3085970	554.4552	1-HR	ALL	4TH	1.66197	554.45518	0.000	0.000
332050	3083470	564.8669	1-HR	ALL	4TH	0.00728	564.8669	332050	3083470	564.8669	1-HR	ALL	4TH	0.00728	564.86688	0.000	0.000
332050	3082170	577.3735	1-HR	ALL	4TH	0.00822	577.3735	332050	3082170	577.3735	1-HR	ALL	4TH	0.00822	577.37345	0.000	0.000
332050	3082070	579.4384	1-HR	ALL	4TH	0.00512	579.4384	332050	3082070	579.4384	1-HR	ALL	4TH	0.00512	579.43837	0.000	0.000

332050	3081970	581.6857	1-HR	ALL	4TH	0.00662	581.6857	332050	3081970	581.6857	1-HR	ALL	4TH	0.00662	581.68572	0.000	0.000
332050	3081870	583.2211	1-HR	ALL	4TH	0.0069	583.2211	332050	3081870	583.2211	1-HR	ALL	4TH	0.0069	583.22113	0.000	0.000
332050	3081770	584.0236	1-HR	ALL	4TH	0.00673	584.0236	332050	3081770	584.0236	1-HR	ALL	4TH	0.00673	584.02357	0.000	0.000
331950	3082070	578.5642	1-HR	ALL	4TH	0.00674	578.5642	331950	3082070	578.5642	1-HR	ALL	4TH	0.00674	578.56422	0.000	0.000
331950	3081970	580.4251	1-HR	ALL	4TH	0.007	580.4251	331950	3081970	580.4251	1-HR	ALL	4TH	0.007	580.42507	0.000	0.000
331950	3081870	581.8454	1-HR	ALL	4TH	0.00728	581.8454	331950	3081870	581.8454	1-HR	ALL	4TH	0.00728	581.84543	0.000	0.000
331950	3081770	582.1364	1-HR	ALL	4TH	0.00709	582.1364	331950	3081770	582.1364	1-HR	ALL	4TH	0.00709	582.13644	0.000	0.000
331850	3081970	579.1297	1-HR	ALL	4TH	0.00739	579.1297	331850	3081970	579.1297	1-HR	ALL	4TH	0.00739	579.12973	0.000	0.000
331850	3081870	580.4322	1-HR	ALL	4TH	0.00765	580.4322	331850	3081870	580.4322	1-HR	ALL	4TH	0.00765	580.4322	0.000	0.000
331850	3081770	580.2151	1-HR	ALL	4TH	0.00745	580.2151	331850	3081770	580.2151	1-HR	ALL	4TH	0.00745	580.21512	0.000	0.000
331750	3081870	579.0043	1-HR	ALL	4TH	0.00802	579.0043	331750	3081870	579.0043	1-HR	ALL	4TH	0.00802	579.00432	0.000	0.000
331750	3081770	578.2130	1-HR	ALL	4TH	0.00782	578.213	331750	3081770	578.2130	1-HR	ALL	4TH	0.00782	578.21297	0.000	0.000
334650	3079370	615.0872	1-HR	ALL	4TH	0.0288	615.0872	334650	3079370	615.0872	1-HR	ALL	4TH	0.0288	615.08716	0.000	0.000
334650	3078870	612.4203	1-HR	ALL	4TH	0.04436	612.4203	334650	3078870	612.4203	1-HR	ALL	4TH	0.04436	612.42025	0.000	0.000
334650	3078370	615.4793	1-HR	ALL	4TH	0.01949	615.4793	334650	3078370	615.4793	1-HR	ALL	4TH	0.01949	615.47927	0.000	0.000
334650	3077870	604.9704	1-HR	ALL	4TH	0.03723	604.9704	334650	3077870	604.9704	1-HR	ALL	4TH	0.03723	604.97036	0.000	0.000
334150	3078370	604.6010	1-HR	ALL	4TH	0.02351	604.601	334150	3078370	604.6010	1-HR	ALL	4TH	0.02351	604.60097	0.000	0.000
334150	3077870	595.1595	1-HR	ALL	4TH	0.03707	595.1595	334150	3077870	595.1595	1-HR	ALL	4TH	0.03707	595.15951	0.000	0.000
334150	3077370	601.2795	1-HR	ALL	4TH	0.0163	601.2795	334150	3077370	601.2795	1-HR	ALL	4TH	0.0163	601.27954	0.000	0.000
329650	3083370	527.3456	1-HR	ALL	4TH	0.07767	527.3456	329650	3083370	527.3456	1-HR	ALL	4TH	0.07767	527.34563	0.000	0.000
329150	3083370	520.9737	1-HR	ALL	4TH	0.10813	520.9737	329150	3083370	520.9737	1-HR	ALL	4TH	0.10813	520.97372	0.000	0.000
328650	3083370	516.7003	1-HR	ALL	4TH	0.16922	516.7003	328650	3083370	516.7003	1-HR	ALL	4TH	0.16922	516.70032	0.000	0.000
328650	3082870	528.7642	1-HR	ALL	4TH	0.01504	528.7642	328650	3082870	528.7642	1-HR	ALL	4TH	0.01504	528.76424	0.000	0.000
328150	3083370	513.0171	1-HR	ALL	4TH	0.1908	513.0171	328150	3083370	513.0171	1-HR	ALL	4TH	0.1908	513.01714	0.000	0.000
328150	3082870	523.5487	1-HR	ALL	4TH	0.03212	523.5487	328150	3082870	523.5487	1-HR	ALL	4TH	0.03212	523.54873	0.000	0.000
327650	3082870	517.9509	1-HR	ALL	4TH	0.03747	517.9509	327650	3082870	517.9509	1-HR	ALL	4TH	0.03747	517.95091	0.000	0.000
327150	3082870	511.5993	1-HR	ALL	4TH	0.04277	511.5993	327150	3082870	511.5993	1-HR	ALL	4TH	0.04277	511.59926	0.000	0.000
326650	3082870	504.0269	1-HR	ALL	4TH	0.06676	504.0269	326650	3082870	504.0269	1-HR	ALL	4TH	0.06676	504.02687	0.000	0.000
326150	3082870	497.0102	1-HR	ALL	4TH	0.08074	497.0102	326150	3082870	497.0102	1-HR	ALL	4TH	0.08074	497.01019	0.000	0.000
326150	3082370	495.6377	1-HR	ALL	4TH	0.03118	495.6377	326150	3082370	495.6377	1-HR	ALL	4TH	0.03118	495.63767	0.000	0.000
325650	3082870	489.0242	1-HR	ALL	4TH	0.07377	489.0242	325650	3082870	489.0242	1-HR	ALL	4TH	0.07377	489.02416	0.000	0.000
325650	3082370	491.6612	1-HR	ALL	4TH	0.17425	491.6612	325650	3082370	491.6612	1-HR	ALL	4TH	0.17425	491.66121	0.000	0.000
325150	3082870	481.6481	1-HR	ALL	4TH	0.20803	481.6481	325150	3082870	481.6481	1-HR	ALL	4TH	0.20803	481.64812	0.000	0.000
325150	3082370	487.4047	1-HR	ALL	4TH	0.18422	487.4047	325150	3082370	487.4047	1-HR	ALL	4TH	0.18422	487.40466	0.000	0.000
324650	3082370	480.7402	1-HR	ALL	4TH	0.18244	480.7402	324650	3082370	480.7402	1-HR	ALL	4TH	0.18244	480.74022	0.000	0.000
324150	3082370	474.2329	1-HR	ALL	4TH	0.12433	474.2329	324150	3082370	474.2329	1-HR	ALL	4TH	0.12433	474.23292	0.000	0.000
323650	3082370	467.1334	1-HR	ALL	4TH	0.12487	467.1334	323650	3082370	467.1334	1-HR	ALL	4TH	0.12487	467.13341	0.000	0.000

PCRRF Maximum Contribution=> 0.58014

PCRRF Maximum Contribution=>

0.58014 Max Diff=>

0.000 0.000

Note: The THRESH switch in MAXDCON does not work in the latest version of AERMOD (12060) so the switch was set to give the 4th Rank for comparison to the output from the last version of AERMOD (11353). Comparison of all values shows that the values are the same.

Attachment 2

Calendar Year 2007 Hourly Steam Flow Data

(complete data is provided on CD)

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMTRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMTRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMTRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
1/1/2007	0:00	156.60	60	150.10	60	150.60	60	156.60			
1/1/2007	1:00	159.90	60	146.80	60	151.40	60	159.90			
1/1/2007	2:00	171.10	60	152.00	60	150.40	60	171.10			
1/1/2007	3:00	156.90	60	151.30	60	158.90	60	158.90			
1/1/2007	4:00	155.40	60	150.20	60	151.40	60	155.40			
1/1/2007	5:00	156.70	60	150.40	60	157.40	60	157.40			
1/1/2007	6:00	156.80	60	151.10	60	151.90	60	156.80			
1/1/2007	7:00	155.60	60	148.10	60	151.30	60	155.60			
1/1/2007	8:00	159.20	60	150.20	60	150.80	60	159.20			
1/1/2007	9:00	154.50	60	151.50	60	149.90	60	154.50			
1/1/2007	10:00	157.70	60	156.30	60	148.10	60	157.70			
1/1/2007	11:00	161.90	60	155.80	60	153.10	60	161.90			
1/1/2007	12:00	158.20	60	153.50	60	147.20	60	158.20			
1/1/2007	13:00	156.80	60	153.70	60	156.20	60	156.80			
1/1/2007	14:00	160.90	60	155.20	60	154.70	60	160.90			
1/1/2007	15:00	162.30	60	153.60	60	150.90	60	162.30			
1/1/2007	16:00	155.50	60	154.60	60	151.40	60	155.50			
1/1/2007	17:00	145.60	60	114.00	60	149.70	60	149.70			
1/1/2007	18:00	150.20	60	149.80	60	148.30	60	150.20			
1/1/2007	19:00	155.40	60	150.20	60	142.10	60	155.40			
1/1/2007	20:00	153.00	60	153.00	60	161.50	60	161.50			
1/1/2007	21:00	165.50	60	152.40	60	164.70	60	165.50			
1/1/2007	22:00	149.00	60	154.50	60	150.30	60	154.50			
1/1/2007	23:00	169.10	60	153.70	60	158.50	60	169.10			
1/2/2007	0:00	170.60	60	150.50	60	155.10	60	170.60			
1/2/2007	1:00	171.00	60	152.30	60	145.80	60	171.00			
1/2/2007	2:00	173.80	60	167.10	60	162.60	60	173.80			
1/2/2007	3:00	172.80	60	169.00	60	176.30	60	176.30			
1/2/2007	4:00	185.00	60	179.60	60	171.00	60	185.00			
1/2/2007	5:00	181.90	60	180.40	60	179.70	60	181.90			
1/2/2007	6:00	187.30	60	182.50	60	186.50	60	187.30			
1/2/2007	7:00	215.50	60	202.50	60	214.50	60	215.50			
1/2/2007	8:00	221.40	60	211.40	60	214.50	60	221.40			
1/2/2007	9:00	227.40	60	216.50	60	216.90	60	227.40			
1/2/2007	10:00	219.40	60	211.20	60	230.10	60	230.10			
1/2/2007	11:00	230.80	60	184.50	60	222.50	60	230.80			
1/2/2007	12:00	233.30	60	217.70	60	226.70	60	233.30			
1/2/2007	13:00	235.00	60	225.80	60	229.00	60	235.00			
1/2/2007	14:00	234.40	60	231.50	60	221.30	60	234.40			
1/2/2007	15:00	233.00	60	231.80	60	218.90	60	233.00			
1/2/2007	16:00	228.40	60	235.00	60	220.80	60	235.00			
1/2/2007	17:00	232.10	60	227.70	60	232.70	60	232.10			
1/2/2007	18:00	213.00	60	215.50	60	206.60	60	215.50			
1/2/2007	19:00	202.40	60	192.80	60	177.00	60	202.40			
1/2/2007	20:00	197.30	60	188.50	60	182.90	60	197.30			
1/2/2007	21:00	183.10	60	172.20	60	185.60	60	185.60			
1/2/2007	22:00	180.40	60	176.90	60	177.30	60	180.40			
1/2/2007	23:00	212.40	60	197.00	60	182.20	60	212.40			
1/3/2007	0:00	236.10	60	236.60	60	186.40	60	236.60			
1/3/2007	1:00	231.90	60	231.60	60	226.90	60	231.90			
1/3/2007	2:00	241.10	60	228.10	60	219.10	60	241.10	241.1		
1/3/2007	3:00	228.70	60	235.30	60	223.70	60	235.30			
1/3/2007	4:00	233.50	60	234.10	60	223.90	60	234.10			
1/3/2007	5:00	233.90	60	235.30	60	205.00	60	235.30			
1/3/2007	6:00	234.40	60	232.90	60	211.00	60	234.40			
1/3/2007	7:00	232.50	60	232.60	60	212.70	60	232.50			
1/3/2007	8:00	234.40	60	232.80	60	186.30	60	234.40			
1/3/2007	9:00	226.20	60	231.30	60	201.20	60	231.30			
1/3/2007	10:00	226.40	60	230.10	60	226.70	60	230.10			
1/3/2007	11:00	227.50	60	229.40	60	223.50	60	229.40			
1/3/2007	12:00	230.60	60	230.20	60	220.40	60	230.60			
1/3/2007	13:00	233.80	60	230.40	60	221.00	60	233.80			
1/3/2007	14:00	234.40	60	231.10	60	210.60	60	234.40			
1/3/2007	15:00	231.50	60	232.00	60	227.80	60	232.00			
1/3/2007	16:00	225.70	60	232.40	60	230.50	60	232.40			
1/3/2007	17:00	231.20	60	231.80	60	232.40	60	232.40			
1/3/2007	18:00	232.30	60	231.70	60	224.90	60	232.30			
1/3/2007	19:00	235.10	60	235.30	60	238.80	60	238.80			
1/3/2007	20:00	235.00	60	235.70	60	222.40	60	235.70			
1/3/2007	21:00	235.60	60	231.10	60	205.10	60	235.60			
1/3/2007	22:00	235.60	60	233.80	60	212.20	60	235.60			
1/3/2007	23:00	234.30	60	239.70	60	216.50	60	239.70			
1/4/2007	0:00	236.10	60	236.70	60	211.20	60	236.70			
1/4/2007	1:00	235.30	60	235.60	60	209.70	60	235.60			
1/4/2007	2:00	237.70	60	236.90	60	213.30	60	237.70			
1/4/2007	3:00	232.50	60	234.80	60	208.70	60	234.80			
1/4/2007	4:00	229.50	60	235.70	60	211.90	60	235.70			
1/4/2007	5:00	229.40	60	236.00	60	213.30	60	236.00			
1/4/2007	6:00	241.80	60	237.40	60	213.30	60	241.80	241.8		
1/4/2007	7:00	231.80	60	230.20	60	212.10	60	231.80			
1/4/2007	8:00	227.90	60	233.10	60	221.10	60	233.10			
1/4/2007	9:00	234.10	60	235.20	60	220.90	60	235.20			
1/4/2007	10:00	233.30	60	234.20	60	231.90	60	234.20			
1/4/2007	11:00	234.40	60	234.90	60	218.10	60	234.90			
1/4/2007	12:00	233.80	60	228.70	60	220.80	60	233.80			
1/4/2007	13:00	223.00	60	226.40	60	225.90	60	226.40			
1/4/2007	14:00	222.50	60	224.10	60	220.80	60	224.10			
1/4/2007	15:00	224.20	60	224.20	60	221.30	60	224.20			

Plant Name: PNLA Page: 1
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
1/30/2007	8:00:00 AM	232.00	60	1.6F	0.0F	233.80	60	233.80			
1/30/2007	9:00:00 AM	226.00	60	130.80	57	221.90	60	226.00			
1/30/2007	10:00:00 AM	224.20	60	196.00	60	227.20	60	227.20			
1/30/2007	11:00:00 AM	229.90	60	198.50	60	234.60	60	234.60			
1/30/2007	12:00:00 PM	233.90	60	207.70	60	234.40	60	234.40			
1/30/2007	1:00:00 PM	234.60	60	203.80	60	234.00	60	234.60			
1/30/2007	2:00:00 PM	212.50	60	204.80	60	232.50	60	232.50			
1/30/2007	3:00:00 PM	230.90	60	201.00	60	233.20	60	233.20			
1/30/2007	4:00:00 PM	232.70	60	194.90	60	235.10	60	235.10			
1/30/2007	5:00:00 PM	235.00	60	185.80	60	233.80	60	235.00			
1/30/2007	6:00:00 PM	235.10	60	181.20	60	233.50	60	235.10			
1/30/2007	7:00:00 PM	233.20	60	182.90	60	236.60	60	236.60			
1/30/2007	8:00:00 PM	233.70	60	181.80	60	230.80	60	233.70			
1/30/2007	9:00:00 PM	233.60	60	181.40	60	232.80	60	233.60			
1/30/2007	10:00:00 PM	233.10	60	179.50	60	234.20	60	234.20			
1/30/2007	11:00:00 PM	237.80	60	180.10	60	231.80	60	237.80			
1/31/2007	12:00:00 AM	228.20	60	179.70	60	230.00	60	230.00			
1/31/2007	1:00:00 AM	236.00	60	181.00	60	229.80	60	236.00			
1/31/2007	2:00:00 AM	232.60	60	180.10	60	235.10	60	235.10			
1/31/2007	3:00:00 AM	238.60	60	181.90	60	234.90	60	238.60			
1/31/2007	4:00:00 AM	233.40	60	180.10	60	233.40	60	233.40			
1/31/2007	5:00:00 AM	234.80	60	181.90	60	235.60	60	235.60			
1/31/2007	6:00:00 AM	232.90	60	208.00	60	232.60	60	232.90			
1/31/2007	7:00:00 AM	231.50	60	208.90	60	235.60	60	235.60			
1/31/2007	8:00:00 AM	228.50	60	210.10	60	235.50	60	235.50			
1/31/2007	9:00:00 AM	232.70	60	210.50	60	233.90	60	233.90			
1/31/2007	10:00:00 AM	233.10	60	194.90	60	233.90	60	233.90			
1/31/2007	11:00:00 AM	233.30	60	211.00	60	232.00	60	233.30			
1/31/2007	12:00:00 PM	236.10	60	210.00	60	233.90	60	236.10			
1/31/2007	1:00:00 PM	234.70	60	210.00	60	231.90	60	234.70			
1/31/2007	2:00:00 PM	233.50	60	207.70	60	234.40	60	234.40			
1/31/2007	3:00:00 PM	234.10	60	209.60	60	240.50	60	240.50			240.5
1/31/2007	4:00:00 PM	235.10	60	209.80	60	233.30	60	235.10			
1/31/2007	5:00:00 PM	224.50	60	206.60	60	232.20	60	232.20			
1/31/2007	6:00:00 PM	234.00	60	208.90	60	235.10	60	235.10			
1/31/2007	7:00:00 PM	233.60	60	213.40	60	230.90	60	233.60			
1/31/2007	8:00:00 PM	238.90	60	224.00	60	229.40	60	238.90			
1/31/2007	9:00:00 PM	226.20	60	224.10	60	232.60	60	232.60			
1/31/2007	10:00:00 PM	237.10	60	225.50	60	215.40	60	237.10			
1/31/2007	11:00:00 PM	230.70	60	226.00	60	226.10	60	230.70			
2/1/2007	12:00:00 AM	238.80	60	230.60	60	235.10	60	238.80			
2/1/2007	1:00:00 AM	215.60	60	217.90	60	236.80	60	236.80			
2/1/2007	2:00:00 AM	219.60	60	222.10	60	233.80	60	233.80			
2/1/2007	3:00:00 AM	224.20	60	226.00	60	235.70	60	235.70			
2/1/2007	4:00:00 AM	230.00	60	230.50	60	232.30	60	232.30			
2/1/2007	5:00:00 AM	228.50	60	229.90	60	237.40	60	237.40			
2/1/2007	6:00:00 AM	228.40	60	229.00	60	230.90	60	230.90			
2/1/2007	7:00:00 AM	227.60	60	224.00	60	208.90	60	227.60			
2/1/2007	8:00:00 AM	229.50	60	226.10	60	193.80	60	229.50			
2/1/2007	9:00:00 AM	229.50	60	226.70	60	184.70	60	229.50			
2/1/2007	10:00:00 AM	226.60	60	224.50	60	174.50	60	226.60			
2/1/2007	11:00:00 AM	233.10	60	224.20	60	181.20	60	233.10			
2/1/2007	12:00:00 PM	228.20	60	217.20	60	177.80	60	228.20			
2/1/2007	1:00:00 PM	229.00	60	217.30	60	181.60	60	229.00			
2/1/2007	2:00:00 PM	227.90	60	219.30	60	173.60	60	227.90			
2/1/2007	3:00:00 PM	225.70	60	218.70	60	135.30	60	225.70			
2/1/2007	4:00:00 PM	230.70	60	215.20	60	142.70	60	230.70			
2/1/2007	5:00:00 PM	238.00	60	216.60	60	152.20	60	238.00			
2/1/2007	6:00:00 PM	238.40	60	211.50	60	149.60	60	238.40			
2/1/2007	7:00:00 PM	234.00	60	202.40	60	152.00	60	234.00			
2/1/2007	8:00:00 PM	233.90	60	200.10	60	155.60	60	233.90			
2/1/2007	9:00:00 PM	237.80	60	200.60	60	143.20	60	237.80			
2/1/2007	10:00:00 PM	239.50	60	200.00	60	146.30	60	239.50			
2/1/2007	11:00:00 PM	241.80	60	219.00	60	154.30	60	241.80	241.8		
2/2/2007	12:00:00 AM	241.10	60	221.10	60	155.40	60	241.10	241.1		
2/2/2007	1:00:00 AM	241.10	60	227.40	60	154.10	60	241.10	241.1		
2/2/2007	2:00:00 AM	221.30	60	228.40	60	152.90	60	228.40			
2/2/2007	3:00:00 AM	228.60	60	214.70	60	154.60	60	228.60			
2/2/2007	4:00:00 AM	236.50	60	209.70	60	154.90	60	236.50			
2/2/2007	5:00:00 AM	235.30	60	208.30	60	155.40	60	235.30			
2/2/2007	6:00:00 AM	235.60	60	210.40	60	156.70	60	235.60			
2/2/2007	7:00:00 AM	233.60	60	209.90	60	160.10	60	233.60			
2/2/2007	8:00:00 AM	233.40	60	211.70	60	159.80	60	233.40			
2/2/2007	9:00:00 AM	239.30	60	211.10	60	164.50	60	239.30			
2/2/2007	10:00:00 AM	240.60	60	212.00	60	162.40	60	240.60	240.6		
2/2/2007	11:00:00 AM	237.10	60	215.90	60	161.80	60	237.10			
2/2/2007	12:00:00 PM	235.10	60	216.20	60	159.40	60	235.10			
2/2/2007	1:00:00 PM	234.40	60	215.20	60	161.30	60	234.40			
2/2/2007	2:00:00 PM	232.60	60	214.80	60	160.50	60	232.60			
2/2/2007	3:00:00 PM	234.00	60	216.00	60	158.80	60	234.00			
2/2/2007	4:00:00 PM	234.10	60	217.40	60	139.00	60	234.10			
2/2/2007	5:00:00 PM	232.70	60	216.30	60	181.00	60	232.70			
2/2/2007	6:00:00 PM	235.00	60	215.60	60	168.30	60	235.00			
2/2/2007	7:00:00 PM	235.00	60	214.50	60	177.10	60	235.00			
2/2/2007	8:00:00 PM	234.60	60	216.90	60	185.40	60	234.60			
2/2/2007	9:00:00 PM	236.20	60	216.30	60	166.70	60	236.20			
2/2/2007	10:00:00 PM	236.60	60	220.40	60	168.70	60	236.60			
2/2/2007	11:00:00 PM	237.30	60	224.90	60	172.80	60	237.30			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
2/28/2007	4:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	5:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	0.0F	0.0F	-			
2/28/2007	6:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	7:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	8:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	9:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	10:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	-0.0F	0.0F	-			
2/28/2007	11:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	0.1F	0.0F	-			
3/1/2007	12:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	1.0F	0.0F	-			
3/1/2007	1:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	2.3F	0.0F	-			
3/1/2007	2:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	2.0F	0.0F	-			
3/1/2007	3:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	1.5F	0.0F	-			
3/1/2007	4:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	7.4F	0.0F	-			
3/1/2007	5:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	12.7F	0.0F	-			
3/1/2007	6:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	15.7F	0.0F	-			
3/1/2007	7:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	14.9F	0.0F	-			
3/1/2007	8:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	34.80	14	34.80			
3/1/2007	9:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	129.20	60	129.20			
3/1/2007	10:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	158.50	60	158.50			
3/1/2007	11:00:00 AM	-0.3F	0.0F	-0.0F	0.0F	180.60	60	180.60			
3/1/2007	12:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	214.60	60	214.60			
3/1/2007	1:00:00 PM	-0.3F	0.0F	-0.0F	0.0F	222.50	60	222.50			
3/1/2007	2:00:00 PM	0.0F	0.0F	-0.0F	0.0F	227.80	60	227.80			
3/1/2007	3:00:00 PM	5.4F	0.0F	-0.0F	0.0F	223.40	60	223.40			
3/1/2007	4:00:00 PM	15.1F	0.0F	-0.0F	0.0F	229.40	60	229.40			
3/1/2007	5:00:00 PM	12.7F	0.0F	-0.0F	0.0F	217.70	60	217.70			
3/1/2007	6:00:00 PM	19.8F	0.0F	-0.0F	0.0F	213.80	60	213.80			
3/1/2007	7:00:00 PM	23.6F	0.0F	-0.0F	0.0F	217.20	60	217.20			
3/1/2007	8:00:00 PM	28.9F	0.0F	-0.0F	0.0F	219.70	60	219.70			
3/1/2007	9:00:00 PM	138.90	55	-0.0F	0.0F	220.00	60	220.00			
3/1/2007	10:00:00 PM	153.30	60	-0.0F	0.0F	228.70	60	228.70			
3/1/2007	11:00:00 PM	166.40	60	-0.0F	0.0F	230.70	60	230.70			
3/2/2007	12:00:00 AM	166.10	60	-0.0F	0.0F	225.10	60	225.10			
3/2/2007	1:00:00 AM	178.30	60	-0.0F	0.0F	229.70	60	229.70			
3/2/2007	2:00:00 AM	184.10	60	-0.0F	0.0F	225.20	60	225.20			
3/2/2007	3:00:00 AM	182.00	60	-0.0F	0.0F	231.30	60	231.30			
3/2/2007	4:00:00 AM	184.90	60	-0.0F	0.0F	227.20	60	227.20			
3/2/2007	5:00:00 AM	184.20	60	-0.0F	0.0F	217.90	60	217.90			
3/2/2007	6:00:00 AM	179.90	60	-0.0F	0.0F	220.00	60	220.00			
3/2/2007	7:00:00 AM	182.20	60	-0.0F	0.0F	219.50	60	219.50			
3/2/2007	8:00:00 AM	181.80	60	-0.0F	0.0F	210.80	60	210.80			
3/2/2007	9:00:00 AM	189.10	60	-0.0F	0.0F	217.00	60	217.00			
3/2/2007	10:00:00 AM	191.10	60	-0.0F	0.0F	208.30	60	208.30			
3/2/2007	11:00:00 AM	187.30	60	-0.0F	0.0F	204.70	60	204.70			
3/2/2007	12:00:00 PM	183.90	60	-0.0F	0.0F	214.30	60	214.30			
3/2/2007	1:00:00 PM	184.10	60	-0.0F	0.0F	218.90	60	218.90			
3/2/2007	2:00:00 PM	179.30	60	-0.0F	0.0F	227.90	60	227.90			
3/2/2007	3:00:00 PM	176.40	60	-0.0F	0.0F	224.00	60	224.00			
3/2/2007	4:00:00 PM	192.50	60	-0.0F	0.0F	217.60	60	217.60			
3/2/2007	5:00:00 PM	180.20	60	-0.0F	0.0F	205.00	60	205.00			
3/2/2007	6:00:00 PM	181.20	60	-0.0F	0.0F	237.80	60	237.80			
3/2/2007	7:00:00 PM	180.10	60	-0.0F	0.0F	231.90	60	231.90			
3/2/2007	8:00:00 PM	179.30	60	-0.0F	0.0F	234.00	60	234.00			
3/2/2007	9:00:00 PM	178.20	60	-0.0F	0.0F	237.60	60	237.60			
3/2/2007	10:00:00 PM	180.00	60	-0.0F	0.0F	229.90	60	229.90			
3/2/2007	11:00:00 PM	179.20	60	-0.0F	0.0F	237.40	60	237.40			
3/3/2007	12:00:00 AM	179.50	60	-0.0F	0.0F	232.80	60	232.80			
3/3/2007	1:00:00 AM	179.40	60	-0.0F	0.0F	229.10	60	229.10			
3/3/2007	2:00:00 AM	180.20	60	-0.0F	0.0F	236.30	60	236.30			
3/3/2007	3:00:00 AM	179.90	60	-0.0F	0.0F	231.80	60	231.80			
3/3/2007	4:00:00 AM	181.10	60	-0.0F	0.0F	234.30	60	234.30			
3/3/2007	5:00:00 AM	197.00	60	-0.0F	0.0F	232.10	60	232.10			
3/3/2007	6:00:00 AM	199.30	60	-0.0F	0.0F	232.60	60	232.60			
3/3/2007	7:00:00 AM	200.50	60	-0.0F	0.0F	234.00	60	234.00			
3/3/2007	8:00:00 AM	202.30	60	-0.0F	0.0F	224.20	60	224.20			
3/3/2007	9:00:00 AM	213.20	60	-0.0F	0.0F	228.60	60	228.60			
3/3/2007	10:00:00 AM	217.60	60	-0.0F	0.0F	235.30	60	235.30			
3/3/2007	11:00:00 AM	211.70	60	-0.0F	0.0F	230.90	60	230.90			
3/3/2007	12:00:00 PM	209.60	60	-0.0F	0.0F	225.40	60	225.40			
3/3/2007	1:00:00 PM	223.70	60	-0.0F	0.0F	228.00	60	228.00			
3/3/2007	2:00:00 PM	226.90	60	-0.0F	0.0F	233.20	60	233.20			
3/3/2007	3:00:00 PM	217.80	60	-0.0F	0.0F	229.70	60	229.70			
3/3/2007	4:00:00 PM	224.50	60	-0.0F	0.0F	235.90	60	235.90			
3/3/2007	5:00:00 PM	224.90	60	-0.0F	0.0F	228.40	60	228.40			
3/3/2007	6:00:00 PM	224.10	60	-0.0F	0.0F	233.20	60	233.20			
3/3/2007	7:00:00 PM	223.90	60	-0.0F	0.0F	236.40	60	236.40			
3/3/2007	8:00:00 PM	225.50	60	-0.0F	0.0F	235.60	60	235.60			
3/3/2007	9:00:00 PM	226.00	60	-0.0F	0.0F	236.00	60	236.00			
3/3/2007	10:00:00 PM	227.80	60	-0.0F	0.0F	235.70	60	235.70			
3/3/2007	11:00:00 PM	221.10	60	-0.0F	0.0F	232.60	60	232.60			
3/4/2007	12:00:00 AM	216.40	60	-0.0F	0.0F	235.90	60	235.90			
3/4/2007	1:00:00 AM	217.10	60	-0.0F	0.0F	230.70	60	230.70			
3/4/2007	2:00:00 AM	221.30	60	-0.0F	0.0F	235.80	60	235.80			
3/4/2007	3:00:00 AM	219.00	60	-0.0F	0.0F	234.80	60	234.80			
3/4/2007	4:00:00 AM	212.00	60	-0.0F	0.0F	229.00	60	229.00			
3/4/2007	5:00:00 AM	213.90	60	-0.0F	0.0F	233.60	60	233.60			
3/4/2007	6:00:00 AM	217.20	60	-0.0F	0.0F	238.80	60	238.80			
3/4/2007	7:00:00 AM	213.70	60	-0.0F	0.0F	232.50	60	232.50			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
3/30/2007	12:00:00 AM	233.90	60	0.6F	0.0F	233.60	60	233.90			
3/30/2007	1:00:00 AM	236.70	60	0.6F	0.0F	239.00	60	239.00			
3/30/2007	2:00:00 AM	236.80	60	0.7F	0.0F	242.00	60	242.00			242
3/30/2007	3:00:00 AM	233.40	60	0.7F	0.0F	228.20	60	233.40			
3/30/2007	4:00:00 AM	235.90	60	1.0F	0.0F	224.30	60	235.90			
3/30/2007	5:00:00 AM	238.60	60	1.3F	0.0F	240.20	60	240.20			240.2
3/30/2007	6:00:00 AM	235.40	60	1.3F	0.0F	240.00	60	240.00			
3/30/2007	7:00:00 AM	234.80	60	1.3F	0.0F	233.20	60	234.80			
3/30/2007	8:00:00 AM	235.00	60	1.3F	0.0F	238.90	60	238.90			
3/30/2007	9:00:00 AM	235.30	60	0.7F	0.0F	238.10	60	238.10			
3/30/2007	10:00:00 AM	234.60	60	0.5F	0.0F	239.90	60	239.90			
3/30/2007	11:00:00 AM	237.10	60	0.5F	0.0F	233.70	60	237.10			
3/30/2007	12:00:00 PM	230.60	60	0.3F	0.0F	235.70	60	235.70			
3/30/2007	1:00:00 PM	236.60	60	0.3F	0.0F	232.80	60	236.60			
3/30/2007	2:00:00 PM	236.10	60	0.3F	0.0F	233.50	60	236.10			
3/30/2007	3:00:00 PM	233.70	60	0.3F	0.0F	233.80	60	233.70			
3/30/2007	4:00:00 PM	236.80	60	0.3F	0.0F	233.50	60	236.80			
3/30/2007	5:00:00 PM	236.90	60	0.3F	0.0F	235.40	60	236.90			
3/30/2007	6:00:00 PM	230.60	60	0.3F	0.0F	238.30	60	238.30			
3/30/2007	7:00:00 PM	233.60	60	0.3F	0.0F	233.40	60	233.60			
3/30/2007	8:00:00 PM	235.70	60	0.6F	0.0F	231.20	60	235.70			
3/30/2007	9:00:00 PM	237.10	60	1.0F	0.0F	237.50	60	237.50			
3/30/2007	10:00:00 PM	236.60	60	1.0F	0.0F	235.30	60	236.60			
3/30/2007	11:00:00 PM	233.00	60	1.1F	0.0F	240.60	60	240.60			240.6
3/31/2007	12:00:00 AM	236.60	60	1.2F	0.0F	241.00	60	241.00			241
3/31/2007	1:00:00 AM	237.20	60	1.3F	0.0F	238.30	60	238.30			
3/31/2007	2:00:00 AM	235.20	60	1.3F	0.0F	232.30	60	235.20			
3/31/2007	3:00:00 AM	233.80	60	1.3F	0.0F	233.20	60	233.80			
3/31/2007	4:00:00 AM	238.40	60	1.5F	0.0F	240.60	60	240.60			240.6
3/31/2007	5:00:00 AM	235.00	60	1.6F	0.0F	234.50	60	235.00			
3/31/2007	6:00:00 AM	237.60	60	1.8F	0.0F	237.60	60	237.60			
3/31/2007	7:00:00 AM	235.40	60	1.8F	0.0F	236.90	60	236.90			
3/31/2007	8:00:00 AM	238.00	60	1.6F	0.0F	230.70	60	238.00			
3/31/2007	9:00:00 AM	232.20	60	1.1F	0.0F	237.10	60	237.10			
3/31/2007	10:00:00 AM	234.60	60	1.2F	0.0F	235.70	60	235.70			
3/31/2007	11:00:00 AM	235.40	60	1.1F	0.0F	237.80	60	237.80			
3/31/2007	12:00:00 PM	233.60	60	1.1F	0.0F	236.40	60	236.40			
3/31/2007	1:00:00 PM	230.00	60	0.8F	0.0F	234.40	60	234.40			
3/31/2007	2:00:00 PM	231.10	60	0.3F	0.0F	226.60	60	231.10			
3/31/2007	3:00:00 PM	235.50	60	0.3F	0.0F	236.30	60	236.30			
3/31/2007	4:00:00 PM	234.10	60	0.3F	0.0F	237.40	60	237.40			
3/31/2007	5:00:00 PM	234.10	60	0.3F	0.0F	232.10	60	234.10			
3/31/2007	6:00:00 PM	234.90	60	0.3F	0.0F	229.60	60	234.90			
3/31/2007	7:00:00 PM	233.50	60	0.5F	0.0F	224.30	60	233.50			
3/31/2007	8:00:00 PM	225.10	60	1.0F	0.0F	226.70	60	226.70			
3/31/2007	9:00:00 PM	230.60	60	1.3F	0.0F	229.30	60	230.60			
3/31/2007	10:00:00 PM	227.90	60	1.5F	0.0F	227.40	60	227.90			
3/31/2007	11:00:00 PM	225.70	60	1.6F	0.0F	224.30	60	225.70			
4/1/2007	12:00:00 AM	224.40	60	1.8F	0.0F	226.70	60	226.70			
4/1/2007	1:00:00 AM	230.10	60	2.0F	0.0F	223.90	60	230.10			
4/1/2007	2:00:00 AM	231.20	60	2.0F	0.0F	224.60	60	231.20			
4/1/2007	3:00:00 AM	231.20	60	2.0F	0.0F	237.20	60	237.20			
4/1/2007	4:00:00 AM	226.50	60	2.0F	0.0F	227.00	60	227.00			
4/1/2007	5:00:00 AM	236.60	60	2.0F	0.0F	236.70	60	236.70			
4/1/2007	6:00:00 AM	234.90	60	2.0F	0.0F	235.40	60	235.40			
4/1/2007	7:00:00 AM	233.30	60	2.1F	0.0F	237.00	60	237.00			
4/1/2007	8:00:00 AM	233.80	60	2.2F	0.0F	236.40	60	236.40			
4/1/2007	9:00:00 AM	235.60	60	1.0F	0.0F	236.80	60	236.80			
4/1/2007	10:00:00 AM	234.20	60	1.0F	0.0F	235.50	60	235.50			
4/1/2007	11:00:00 AM	234.30	60	1.0F	0.0F	235.10	60	235.10			
4/1/2007	12:00:00 PM	237.90	60	0.8F	0.0F	239.60	60	239.60			
4/1/2007	1:00:00 PM	228.20	60	0.4F	0.0F	239.20	60	239.20			
4/1/2007	2:00:00 PM	214.70	60	0.3F	0.0F	232.50	60	232.50			
4/1/2007	3:00:00 PM	223.70	60	0.3F	0.0F	238.30	60	238.30			
4/1/2007	4:00:00 PM	230.90	60	0.3F	0.0F	237.20	60	237.20			
4/1/2007	5:00:00 PM	235.90	60	0.4F	0.0F	232.30	60	235.90			
4/1/2007	6:00:00 PM	234.40	60	0.5F	0.0F	239.30	60	239.30			
4/1/2007	7:00:00 PM	236.60	60	0.7F	0.0F	228.90	60	236.60			
4/1/2007	8:00:00 PM	236.00	60	1.0F	0.0F	229.90	60	236.00			
4/1/2007	9:00:00 PM	233.80	60	1.5F	0.0F	240.80	60	240.80			240.8
4/1/2007	10:00:00 PM	240.40	60	1.6F	0.0F	239.00	60	240.40	240.4		
4/1/2007	11:00:00 PM	235.40	60	1.6F	0.0F	239.40	60	239.40			
4/2/2007	12:00:00 AM	234.00	60	1.6F	0.0F	229.70	60	234.00			
4/2/2007	1:00:00 AM	234.10	60	1.6F	0.0F	233.30	60	234.10			
4/2/2007	2:00:00 AM	235.20	60	1.6F	0.0F	233.00	60	235.20			
4/2/2007	3:00:00 AM	234.90	60	1.8F	0.0F	237.80	60	237.80			
4/2/2007	4:00:00 AM	234.20	60	1.9F	0.0F	234.10	60	234.20			
4/2/2007	5:00:00 AM	235.00	60	1.9F	0.0F	237.90	60	237.90			
4/2/2007	6:00:00 AM	242.50	60	2.0F	0.0F	235.60	60	242.50	242.5		
4/2/2007	7:00:00 AM	213.80	60	2.0F	0.0F	232.80	60	232.80			
4/2/2007	8:00:00 AM	211.90	60	1.6F	0.0F	227.20	60	227.20			
4/2/2007	9:00:00 AM	235.40	60	0.4F	0.0F	233.80	60	235.40			
4/2/2007	10:00:00 AM	236.70	60	0.8F	0.0F	235.00	60	236.70			
4/2/2007	11:00:00 AM	232.70	60	-0.0F	0.0F	234.60	60	234.60			
4/2/2007	12:00:00 PM	228.10	60	4.10	3	231.30	60	231.30			
4/2/2007	1:00:00 PM	223.70	60	2.0F	0.0F	234.30	60	234.30			
4/2/2007	2:00:00 PM	227.40	60	2.0F	0.0F	244.10	60	244.10			244.1
4/2/2007	3:00:00 PM	224.70	60	2.0F	0.0F	234.80	60	234.80			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMTRPT_1	UNITON_1	STMTRPT_2	UNITON_2	STMTRPT_3	UNITON_3	Max	Unit 1	Unit 2	Unit 3
		(KLB/HR)	(MINS)	(KLB/HR)	(MINS)	(KLB/HR)	(MINS)		>240	>240	>240
4/28/2007	8:00:00 AM	238.80	60	234.20	60	228.10	60	238.80			
4/28/2007	9:00:00 AM	230.00	60	235.60	60	222.80	60	235.60			
4/28/2007	10:00:00 AM	233.50	60	237.10	60	226.20	60	237.10			
4/28/2007	11:00:00 AM	232.70	60	233.90	60	174.60	60	233.90			
4/28/2007	12:00:00 PM	234.60	60	235.00	60	182.40	60	235.00			
4/28/2007	1:00:00 PM	237.40	60	231.90	60	195.20	60	237.40			
4/28/2007	2:00:00 PM	231.80	60	234.10	60	207.70	60	234.10			
4/28/2007	3:00:00 PM	224.30	60	236.90	60	211.90	60	236.90			
4/28/2007	4:00:00 PM	222.80	60	236.40	60	212.70	60	236.40			
4/28/2007	5:00:00 PM	230.40	60	234.70	60	227.30	60	234.70			
4/28/2007	6:00:00 PM	237.00	60	236.80	60	230.20	60	237.00			
4/28/2007	7:00:00 PM	234.80	60	235.00	60	229.00	60	235.00			
4/28/2007	8:00:00 PM	234.60	60	234.80	60	227.40	60	234.80			
4/28/2007	9:00:00 PM	235.00	60	202.40	60	224.90	60	235.00			
4/28/2007	10:00:00 PM	224.10	60	168.20	60	227.90	60	227.90			
4/28/2007	11:00:00 PM	228.70	60	225.70	60	227.20	60	228.70			
4/29/2007	12:00:00 AM	235.00	60	234.10	60	234.00	60	235.00			
4/29/2007	1:00:00 AM	236.60	60	233.60	60	236.70	60	236.70			
4/29/2007	2:00:00 AM	236.30	60	238.10	60	237.20	60	238.10			
4/29/2007	3:00:00 AM	234.50	60	238.40	60	233.60	60	238.40			
4/29/2007	4:00:00 AM	235.30	60	225.00	60	235.70	60	235.70			
4/29/2007	5:00:00 AM	227.10	60	193.60	60	228.20	60	228.20			
4/29/2007	6:00:00 AM	223.80	60	165.80	60	216.20	60	223.80			
4/29/2007	7:00:00 AM	234.00	60	124.20	60	223.30	60	234.00			
4/29/2007	8:00:00 AM	235.50	60	76.00	59	218.20	60	235.50			
4/29/2007	9:00:00 AM	233.30	60	103.20	60	218.70	60	233.30			
4/29/2007	10:00:00 AM	234.80	60	160.30	60	221.40	60	234.80			
4/29/2007	11:00:00 AM	235.10	60	163.10	60	193.10	60	235.10			
4/29/2007	12:00:00 PM	225.80	60	185.10	60	211.00	60	225.80			
4/29/2007	1:00:00 PM	231.70	60	217.80	60	235.90	60	235.90			
4/29/2007	2:00:00 PM	235.90	60	220.00	60	231.70	60	235.90			
4/29/2007	3:00:00 PM	235.40	60	218.50	60	226.80	60	235.40			
4/29/2007	4:00:00 PM	236.00	60	232.70	60	230.90	60	236.00			
4/29/2007	5:00:00 PM	229.10	60	231.40	60	227.50	60	231.40			
4/29/2007	6:00:00 PM	235.40	60	211.50	60	238.20	60	238.20			
4/29/2007	7:00:00 PM	227.30	60	227.90	60	232.10	60	232.10			
4/29/2007	8:00:00 PM	224.80	60	229.70	60	230.80	60	230.80			
4/29/2007	9:00:00 PM	227.70	60	232.00	60	231.60	60	232.00			
4/29/2007	10:00:00 PM	230.50	60	230.90	60	230.80	60	230.90			
4/29/2007	11:00:00 PM	236.40	60	229.60	60	231.20	60	236.40			
4/30/2007	12:00:00 AM	230.40	60	229.50	60	236.30	60	236.30			
4/30/2007	1:00:00 AM	229.00	60	224.70	60	237.80	60	237.80			
4/30/2007	2:00:00 AM	232.10	60	224.50	60	231.60	60	232.10			
4/30/2007	3:00:00 AM	225.20	60	225.30	60	212.40	60	225.30			
4/30/2007	4:00:00 AM	225.00	60	222.10	60	217.20	60	225.00			
4/30/2007	5:00:00 AM	222.10	60	227.30	60	209.80	60	227.30			
4/30/2007	6:00:00 AM	221.20	60	226.80	60	212.40	60	226.80			
4/30/2007	7:00:00 AM	219.40	60	228.10	60	195.10	60	228.10			
4/30/2007	8:00:00 AM	221.30	60	222.60	60	218.40	60	222.60			
4/30/2007	9:00:00 AM	220.60	60	228.20	60	218.50	60	228.20			
4/30/2007	10:00:00 AM	221.30	60	226.70	60	219.10	60	226.70			
4/30/2007	11:00:00 AM	219.80	60	226.60	60	224.40	60	226.60			
4/30/2007	12:00:00 PM	219.90	60	227.30	60	213.10	60	227.30			
4/30/2007	1:00:00 PM	220.70	60	227.70	60	205.60	60	227.70			
4/30/2007	2:00:00 PM	216.30	60	227.90	60	210.60	60	227.90			
4/30/2007	3:00:00 PM	220.30	60	227.90	60	223.60	60	227.90			
4/30/2007	4:00:00 PM	219.60	60	228.10	60	221.80	60	228.10			
4/30/2007	5:00:00 PM	211.00	60	234.00	60	232.20	60	234.00			
4/30/2007	6:00:00 PM	210.10	60	234.70	60	231.50	60	234.70			
4/30/2007	7:00:00 PM	210.00	60	236.10	60	231.00	60	236.10			
4/30/2007	8:00:00 PM	208.00	60	232.70	60	223.50	60	232.70			
4/30/2007	9:00:00 PM	209.60	60	233.70	60	230.70	60	233.70			
4/30/2007	10:00:00 PM	209.30	60	235.40	60	233.70	60	235.40			
4/30/2007	11:00:00 PM	209.10	60	229.60	60	231.40	60	231.40			
5/1/2007	12:00:00 AM	208.90	60	224.20	60	226.70	60	226.70			
5/1/2007	1:00:00 AM	209.30	60	224.20	60	230.70	60	230.70			
5/1/2007	2:00:00 AM	228.80	60	226.00	60	229.70	60	229.70			
5/1/2007	3:00:00 AM	235.40	60	224.70	60	229.70	60	235.40			
5/1/2007	4:00:00 AM	236.50	60	228.50	60	229.20	60	236.50			
5/1/2007	5:00:00 AM	234.00	60	227.60	60	228.00	60	234.00			
5/1/2007	6:00:00 AM	229.90	60	233.00	60	204.90	60	233.00			
5/1/2007	7:00:00 AM	230.90	60	235.50	60	228.70	60	235.50			
5/1/2007	8:00:00 AM	219.40	60	234.40	60	228.30	60	234.40			
5/1/2007	9:00:00 AM	213.80	60	235.60	60	229.20	60	235.60			
5/1/2007	10:00:00 AM	225.50	60	229.10	60	225.70	60	229.10			
5/1/2007	11:00:00 AM	223.80	60	234.50	60	219.80	60	234.50			
5/1/2007	12:00:00 PM	230.90	60	235.20	60	232.30	60	235.20			
5/1/2007	1:00:00 PM	228.40	60	235.30	60	222.30	60	235.30			
5/1/2007	2:00:00 PM	231.90	60	234.60	60	221.10	60	234.60			
5/1/2007	3:00:00 PM	232.90	60	231.40	60	221.90	60	232.90			
5/1/2007	4:00:00 PM	235.00	60	234.70	60	219.70	60	235.00			
5/1/2007	5:00:00 PM	234.60	60	236.20	60	223.60	60	236.20			
5/1/2007	6:00:00 PM	229.50	60	235.20	60	229.80	60	235.20			
5/1/2007	7:00:00 PM	236.70	60	233.70	60	227.80	60	236.70			
5/1/2007	8:00:00 PM	238.10	60	234.60	60	232.50	60	238.10			
5/1/2007	9:00:00 PM	233.20	60	234.30	60	231.90	60	234.30			
5/1/2007	10:00:00 PM	234.60	60	234.20	60	232.40	60	234.60			
5/1/2007	11:00:00 PM	235.50	60	236.40	60	233.00	60	236.40			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
5/31/2007	8:00:00 AM	219.10	60	230.10	60	206.10	60	230.10			
5/31/2007	9:00:00 AM	223.10	60	228.50	60	201.10	60	228.50			
5/31/2007	10:00:00 AM	224.90	60	230.30	60	213.70	60	230.30			
5/31/2007	11:00:00 AM	224.50	60	229.70	60	199.60	60	229.70			
5/31/2007	12:00:00 PM	223.70	60	230.30	60	220.00	60	230.30			
5/31/2007	1:00:00 PM	224.50	60	231.40	60	227.70	60	231.40			
5/31/2007	2:00:00 PM	225.00	60	230.90	60	232.10	60	232.10			
5/31/2007	3:00:00 PM	224.00	60	230.30	60	229.50	60	230.30			
5/31/2007	4:00:00 PM	224.60	60	230.00	60	202.60	60	230.00			
5/31/2007	5:00:00 PM	225.20	60	231.00	60	220.40	60	231.00			
5/31/2007	6:00:00 PM	230.60	60	228.20	60	227.40	60	230.60			
5/31/2007	7:00:00 PM	228.70	60	229.40	60	226.50	60	229.40			
5/31/2007	8:00:00 PM	226.10	60	230.70	60	230.60	60	230.70			
5/31/2007	9:00:00 PM	219.70	60	231.40	60	232.60	60	232.60			
5/31/2007	10:00:00 PM	225.70	60	230.10	60	227.80	60	230.10			
5/31/2007	11:00:00 PM	227.20	60	231.60	60	230.80	60	231.60			
6/1/2007	12:00:00 AM	225.80	60	231.50	60	233.50	60	233.50			
6/1/2007	1:00:00 AM	222.10	60	233.20	60	229.20	60	233.20			
6/1/2007	2:00:00 AM	220.80	60	234.50	60	221.30	60	234.50			
6/1/2007	3:00:00 AM	225.50	60	233.20	60	219.90	60	233.20			
6/1/2007	4:00:00 AM	234.90	60	232.20	60	224.80	60	234.90			
6/1/2007	5:00:00 AM	234.00	60	232.40	60	234.20	60	234.20			
6/1/2007	6:00:00 AM	224.40	60	227.70	60	226.80	60	227.70			
6/1/2007	7:00:00 AM	229.90	60	228.80	60	231.10	60	231.10			
6/1/2007	8:00:00 AM	232.10	60	231.20	60	231.40	60	232.10			
6/1/2007	9:00:00 AM	229.50	60	226.50	60	229.40	60	229.50			
6/1/2007	10:00:00 AM	233.50	60	229.90	60	229.50	60	233.50			
6/1/2007	11:00:00 AM	229.60	60	230.10	60	226.50	60	230.10			
6/1/2007	12:00:00 PM	232.40	60	230.10	60	231.50	60	232.40			
6/1/2007	1:00:00 PM	227.70	60	227.70	60	231.10	60	231.10			
6/1/2007	2:00:00 PM	227.10	60	231.20	60	227.00	60	231.20			
6/1/2007	3:00:00 PM	226.90	60	230.90	60	227.50	60	230.90			
6/1/2007	4:00:00 PM	230.40	60	230.20	60	229.60	60	230.40			
6/1/2007	5:00:00 PM	228.80	60	231.80	60	232.70	60	232.70			
6/1/2007	6:00:00 PM	232.40	60	232.10	60	227.80	60	232.40			
6/1/2007	7:00:00 PM	229.80	60	229.50	60	230.60	60	230.60			
6/1/2007	8:00:00 PM	227.90	60	232.20	60	231.90	60	232.20			
6/1/2007	9:00:00 PM	232.20	60	230.80	60	232.60	60	232.60			
6/1/2007	10:00:00 PM	230.00	60	232.30	60	226.90	60	232.30			
6/1/2007	11:00:00 PM	231.00	60	231.60	60	230.80	60	231.60			
6/2/2007	12:00:00 AM	228.10	60	226.60	60	233.60	60	233.60			
6/2/2007	1:00:00 AM	230.50	60	219.40	60	232.80	60	232.80			
6/2/2007	2:00:00 AM	228.80	60	229.00	60	230.30	60	230.30			
6/2/2007	3:00:00 AM	233.40	60	231.70	60	231.30	60	233.40			
6/2/2007	4:00:00 AM	196.70	60	184.80	60	195.30	60	196.70			
6/2/2007	5:00:00 AM	182.10	60	179.10	60	174.40	60	182.10			
6/2/2007	6:00:00 AM	175.50	60	168.90	60	154.90	60	175.50			
6/2/2007	7:00:00 AM	172.00	60	166.00	60	141.80	60	172.00			
6/2/2007	8:00:00 AM	172.30	60	163.60	60	141.70	60	172.30			
6/2/2007	9:00:00 AM	153.00	60	153.80	60	142.50	60	153.80			
6/2/2007	10:00:00 AM	172.40	60	148.90	60	158.40	60	172.40			
6/2/2007	11:00:00 AM	185.40	60	160.60	60	178.80	60	185.40			
6/2/2007	12:00:00 PM	201.30	60	199.80	60	198.00	60	201.30			
6/2/2007	1:00:00 PM	197.20	60	198.90	60	190.30	60	198.90			
6/2/2007	2:00:00 PM	185.50	60	204.80	60	195.70	60	204.80			
6/2/2007	3:00:00 PM	202.80	60	221.40	60	210.00	60	221.40			
6/2/2007	4:00:00 PM	221.80	60	223.60	60	216.80	60	223.60			
6/2/2007	5:00:00 PM	226.60	60	227.70	60	217.10	60	227.70			
6/2/2007	6:00:00 PM	229.90	60	222.90	60	219.10	60	229.90			
6/2/2007	7:00:00 PM	228.00	60	226.30	60	227.60	60	228.00			
6/2/2007	8:00:00 PM	229.10	60	229.10	60	228.20	60	229.10			
6/2/2007	9:00:00 PM	230.00	60	220.80	60	227.50	60	230.00			
6/2/2007	10:00:00 PM	229.80	60	230.80	60	230.10	60	230.80			
6/2/2007	11:00:00 PM	233.20	60	231.20	60	232.80	60	233.20			
6/3/2007	12:00:00 AM	228.20	60	229.90	60	230.90	60	230.90			
6/3/2007	1:00:00 AM	228.20	60	230.80	60	234.60	60	234.60			
6/3/2007	2:00:00 AM	232.10	60	233.00	60	231.60	60	233.00			
6/3/2007	3:00:00 AM	227.00	60	226.60	60	230.90	60	230.90			
6/3/2007	4:00:00 AM	229.30	60	228.60	60	228.30	60	229.30			
6/3/2007	5:00:00 AM	231.80	60	229.70	60	232.60	60	232.60			
6/3/2007	6:00:00 AM	229.20	60	235.00	60	231.30	60	235.00			
6/3/2007	7:00:00 AM	231.70	60	229.90	60	230.40	60	231.70			
6/3/2007	8:00:00 AM	212.30	60	229.50	60	232.10	60	232.10			
6/3/2007	9:00:00 AM	226.10	60	233.20	60	232.60	60	233.20			
6/3/2007	10:00:00 AM	214.40	60	230.40	60	233.30	60	233.30			
6/3/2007	11:00:00 AM	214.70	60	232.20	60	232.00	60	232.20			
6/3/2007	12:00:00 PM	198.60	60	229.60	60	229.70	60	229.70			
6/3/2007	1:00:00 PM	198.90	60	231.40	60	230.60	60	231.40			
6/3/2007	2:00:00 PM	201.10	60	231.60	60	231.60	60	231.60			
6/3/2007	3:00:00 PM	209.70	60	230.70	60	232.30	60	232.30			
6/3/2007	4:00:00 PM	193.10	60	230.50	60	231.80	60	231.80			
6/3/2007	5:00:00 PM	208.90	60	221.10	60	210.60	60	221.10			
6/3/2007	6:00:00 PM	190.40	60	198.50	60	190.80	60	198.50			
6/3/2007	7:00:00 PM	185.20	60	179.80	60	182.90	60	185.20			
6/3/2007	8:00:00 PM	203.10	60	192.60	60	189.00	60	203.10			
6/3/2007	9:00:00 PM	215.40	60	210.20	60	192.30	60	215.40			
6/3/2007	10:00:00 PM	219.50	60	217.00	60	190.30	60	219.50			
6/3/2007	11:00:00 PM	229.40	60	215.80	60	196.00	60	229.40			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMTRPT_1 {KLB/HR }	UNITON_1 {MINS }	STMTRPT_2 {KLB/HR }	UNITON_2 {MINS }	STMTRPT_3 {KLB/HR }	UNITON_3 {MINS }	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
6/29/2007	4:00:00 PM	233.30	60	236.60	60	231.90	60	236.60			
6/29/2007	5:00:00 PM	236.30	60	234.40	60	235.40	60	236.30			
6/29/2007	6:00:00 PM	235.60	60	235.90	60	202.70	60	235.90			
6/29/2007	7:00:00 PM	233.50	60	228.10	60	222.30	60	233.50			
6/29/2007	8:00:00 PM	233.90	60	232.70	60	215.90	60	233.90			
6/29/2007	9:00:00 PM	224.50	60	236.00	60	215.80	60	236.00			
6/29/2007	10:00:00 PM	179.70	60	234.60	60	218.10	60	234.60			
6/29/2007	11:00:00 PM	183.60	60	235.20	60	233.80	60	235.20			
6/30/2007	12:00:00 AM	180.40	60	234.60	60	181.80	60	234.60			
6/30/2007	1:00:00 AM	172.30	60	235.10	60	228.70	60	235.10			
6/30/2007	2:00:00 AM	170.50	60	235.70	60	235.30	60	235.70			
6/30/2007	3:00:00 AM	171.60	60	236.70	60	233.60	60	236.70			
6/30/2007	4:00:00 AM	175.30	60	235.40	60	224.00	60	235.40			
6/30/2007	5:00:00 AM	171.00	60	229.10	60	98.40	58	229.10			
6/30/2007	6:00:00 AM	172.30	60	185.60	60	69.00	48	185.60			
6/30/2007	7:00:00 AM	168.80	60	171.10	60	144.60	60	171.10			
6/30/2007	8:00:00 AM	169.60	60	170.90	60	156.30	60	170.90			
6/30/2007	9:00:00 AM	163.80	60	171.40	60	154.50	60	171.40			
6/30/2007	10:00:00 AM	115.40	60	176.70	60	164.70	60	176.70			
6/30/2007	11:00:00 AM	137.80	60	217.40	60	184.40	60	217.40			
6/30/2007	12:00:00 PM	144.60	60	232.30	60	203.20	60	232.30			
6/30/2007	1:00:00 PM	156.80	60	229.60	60	196.30	60	229.60			
6/30/2007	2:00:00 PM	160.20	60	234.70	60	199.60	60	234.70			
6/30/2007	3:00:00 PM	176.50	60	236.70	60	197.00	60	236.70			
6/30/2007	4:00:00 PM	172.90	60	237.00	60	208.70	60	237.00			
6/30/2007	5:00:00 PM	187.20	60	233.20	60	197.10	60	233.20			
6/30/2007	6:00:00 PM	188.80	60	235.50	60	218.40	60	235.50			
6/30/2007	7:00:00 PM	199.70	60	234.00	60	218.80	60	234.00			
6/30/2007	8:00:00 PM	207.80	60	232.00	60	221.90	60	232.00			
6/30/2007	9:00:00 PM	222.20	60	233.50	60	221.00	60	233.50			
6/30/2007	10:00:00 PM	230.10	60	236.20	60	220.80	60	236.20			
6/30/2007	11:00:00 PM	230.70	60	236.40	60	221.80	60	236.40			
7/1/2007	12:00:00 AM	228.90	60	196.70	60	192.20	60	228.90			
7/1/2007	1:00:00 AM	228.40	60	167.50	60	180.80	60	228.40			
7/1/2007	2:00:00 AM	229.10	60	148.30	60	176.30	60	229.10			
7/1/2007	3:00:00 AM	228.90	60	175.50	60	180.80	60	228.90			
7/1/2007	4:00:00 AM	230.10	60	175.20	60	178.70	60	230.10			
7/1/2007	5:00:00 AM	211.70	60	186.20	60	187.50	60	211.70			
7/1/2007	6:00:00 AM	205.70	60	201.30	60	198.50	60	205.70			
7/1/2007	7:00:00 AM	211.20	60	206.30	60	197.90	60	211.20			
7/1/2007	8:00:00 AM	205.90	60	203.80	60	199.30	60	205.90			
7/1/2007	9:00:00 AM	211.40	60	204.50	60	199.70	60	211.40			
7/1/2007	10:00:00 AM	206.80	60	203.10	60	206.10	60	206.80			
7/1/2007	11:00:00 AM	203.10	60	202.70	60	233.50	60	233.50			
7/1/2007	12:00:00 PM	199.40	60	202.20	60	226.10	60	226.10			
7/1/2007	1:00:00 PM	193.10	60	201.00	60	228.20	60	228.20			
7/1/2007	2:00:00 PM	174.80	60	199.10	60	238.30	60	238.30			
7/1/2007	3:00:00 PM	192.40	60	211.80	60	231.20	60	231.20			
7/1/2007	4:00:00 PM	194.00	60	226.50	60	236.50	60	236.50			
7/1/2007	5:00:00 PM	178.60	60	224.80	60	232.50	60	232.50			
7/1/2007	6:00:00 PM	171.10	60	219.60	60	235.00	60	235.00			
7/1/2007	7:00:00 PM	184.80	60	228.10	60	234.40	60	234.40			
7/1/2007	8:00:00 PM	181.20	60	232.80	60	235.90	60	235.90			
7/1/2007	9:00:00 PM	170.50	60	232.00	60	229.70	60	232.00			
7/1/2007	10:00:00 PM	155.30	60	230.90	60	228.70	60	230.90			
7/1/2007	11:00:00 PM	185.40	60	233.00	60	235.20	60	235.20			
7/2/2007	12:00:00 AM	171.40	60	234.70	60	233.90	60	234.70			
7/2/2007	1:00:00 AM	175.20	60	235.90	60	236.00	60	236.00			
7/2/2007	2:00:00 AM	195.10	60	212.20	60	192.70	60	212.20			
7/2/2007	3:00:00 AM	224.50	60	209.50	60	210.60	60	224.50			
7/2/2007	4:00:00 AM	228.80	60	234.60	60	229.50	60	234.60			
7/2/2007	5:00:00 AM	228.20	60	228.20	60	234.90	60	234.90			
7/2/2007	6:00:00 AM	226.90	60	236.20	60	228.50	60	236.20			
7/2/2007	7:00:00 AM	231.10	60	183.70	60	235.10	60	235.10			
7/2/2007	8:00:00 AM	231.10	60	212.80	60	232.80	60	232.80			
7/2/2007	9:00:00 AM	231.10	60	232.20	60	233.00	60	233.00			
7/2/2007	10:00:00 AM	235.50	60	233.90	60	232.10	60	235.50			
7/2/2007	11:00:00 AM	233.10	60	231.30	60	207.80	60	233.10			
7/2/2007	12:00:00 PM	194.30	51	232.50	60	163.80	60	232.50			
7/2/2007	1:00:00 PM	94.30	28	225.50	60	187.00	60	225.50			
7/2/2007	2:00:00 PM	228.50	60	234.70	60	170.20	60	234.70			
7/2/2007	3:00:00 PM	213.70	60	236.00	60	205.70	60	236.00			
7/2/2007	4:00:00 PM	228.10	60	236.30	60	193.30	60	236.30			
7/2/2007	5:00:00 PM	200.90	60	236.50	60	197.00	60	236.50			
7/2/2007	6:00:00 PM	215.00	60	231.50	60	231.90	60	231.90			
7/2/2007	7:00:00 PM	218.70	60	234.80	60	227.00	60	234.80			
7/2/2007	8:00:00 PM	218.60	60	234.10	60	229.50	60	234.10			
7/2/2007	9:00:00 PM	207.60	60	235.50	60	228.60	60	235.50			
7/2/2007	10:00:00 PM	157.20	49	235.00	60	233.10	60	235.00			
7/2/2007	11:00:00 PM	31.2F	0.0F	235.50	60	227.10	60	235.50			
7/3/2007	12:00:00 AM	9.2F	0.0F	235.20	60	230.50	60	235.20			
7/3/2007	1:00:00 AM	0.5F	0.0F	232.00	60	233.60	60	233.60			
7/3/2007	2:00:00 AM	0.8F	0.0F	237.80	60	235.60	60	237.80			
7/3/2007	3:00:00 AM	0.1F	0.0F	227.90	60	236.30	60	236.30			
7/3/2007	4:00:00 AM	-0.3F	0.0F	229.90	60	232.20	60	232.20			
7/3/2007	5:00:00 AM	-0.3F	0.0F	231.60	60	234.60	60	234.60			
7/3/2007	6:00:00 AM	-0.3F	0.0F	235.50	60	232.70	60	235.50			
7/3/2007	7:00:00 AM	-0.3F	0.0F	237.10	60	231.40	60	237.10			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
7/29/2007	12:00:00 AM	232.80	60	234.10	60	238.40	60	238.40			
7/29/2007	1:00:00 AM	232.60	60	232.90	60	212.30	60	232.90			
7/29/2007	2:00:00 AM	235.20	60	237.30	60	179.80	60	237.30			
7/29/2007	3:00:00 AM	237.30	60	233.80	60	199.70	60	237.30			
7/29/2007	4:00:00 AM	234.00	60	236.20	60	232.70	60	236.20			
7/29/2007	5:00:00 AM	235.80	60	235.30	60	235.10	60	235.80			
7/29/2007	6:00:00 AM	233.40	60	234.50	60	228.40	60	234.50			
7/29/2007	7:00:00 AM	241.80	60	236.10	60	217.70	60	241.80	241.8		
7/29/2007	8:00:00 AM	239.40	60	237.30	60	217.10	60	239.40			
7/29/2007	9:00:00 AM	238.60	60	235.20	60	222.60	60	238.60			
7/29/2007	10:00:00 AM	232.80	60	235.50	60	238.50	60	238.50			
7/29/2007	11:00:00 AM	241.60	60	228.50	60	234.30	60	241.60	241.6		
7/29/2007	12:00:00 PM	238.70	60	231.50	60	235.50	60	238.70			
7/29/2007	1:00:00 PM	129.80	32	234.10	60	233.10	60	234.10			
7/29/2007	2:00:00 PM	114.90	42	237.80	60	237.90	60	237.90			
7/29/2007	3:00:00 PM	214.70	60	231.90	60	234.20	60	234.20			
7/29/2007	4:00:00 PM	207.00	60	231.90	60	233.00	60	233.00			
7/29/2007	5:00:00 PM	236.60	60	221.90	60	237.50	60	237.50			
7/29/2007	6:00:00 PM	230.70	60	161.00	52	230.20	60	230.70			
7/29/2007	7:00:00 PM	231.70	60	20.7F	0.0F	208.00	60	231.70			
7/29/2007	8:00:00 PM	246.00	60	0.0F	0.0F	235.50	60	246.00	246		
7/29/2007	9:00:00 PM	237.90	60	0.0F	0.0F	237.60	60	237.90			
7/29/2007	10:00:00 PM	214.60	60	0.0F	0.0F	235.90	60	235.90			
7/29/2007	11:00:00 PM	233.30	60	0.1F	0.0F	236.80	60	236.80			
7/30/2007	12:00:00 AM	232.00	60	0.3F	0.0F	236.10	60	236.10			
7/30/2007	1:00:00 AM	228.70	60	0.0F	0.0F	234.90	60	234.90			
7/30/2007	2:00:00 AM	233.90	60	0.0F	0.0F	237.30	60	237.30			
7/30/2007	3:00:00 AM	216.10	60	0.0F	0.0F	236.40	60	236.40			
7/30/2007	4:00:00 AM	221.30	60	0.0F	0.0F	235.00	60	235.00			
7/30/2007	5:00:00 AM	222.70	60	0.0F	0.0F	236.20	60	236.20			
7/30/2007	6:00:00 AM	223.20	60	0.0F	0.0F	234.30	60	234.30			
7/30/2007	7:00:00 AM	232.70	60	0.0F	0.0F	231.70	60	232.70			
7/30/2007	8:00:00 AM	234.20	60	0.0F	0.0F	233.40	60	234.20			
7/30/2007	9:00:00 AM	205.10	60	0.0F	0.0F	185.40	60	205.10			
7/30/2007	10:00:00 AM	228.50	60	0.0F	0.0F	198.70	60	228.50			
7/30/2007	11:00:00 AM	227.80	60	0.0F	0.0F	201.60	60	227.80			
7/30/2007	12:00:00 PM	230.90	60	0.0F	0.0F	205.70	60	230.90			
7/30/2007	1:00:00 PM	236.10	60	0.0F	0.0F	230.60	60	236.10			
7/30/2007	2:00:00 PM	234.40	60	0.0F	0.0F	235.90	60	235.90			
7/30/2007	3:00:00 PM	235.30	60	0.0F	0.0F	231.30	60	235.30			
7/30/2007	4:00:00 PM	233.80	60	0.0F	0.0F	227.10	60	233.80			
7/30/2007	5:00:00 PM	236.10	60	0.0F	0.0F	233.30	60	236.10			
7/30/2007	6:00:00 PM	235.50	60	0.0F	0.0F	238.60	60	238.60			
7/30/2007	7:00:00 PM	235.40	60	0.0F	0.0F	238.80	60	238.80			
7/30/2007	8:00:00 PM	238.70	60	0.0F	0.0F	235.80	60	238.70			
7/30/2007	9:00:00 PM	236.20	60	0.0F	0.0F	238.70	60	238.70			
7/30/2007	10:00:00 PM	239.40	60	0.0F	0.0F	236.50	60	239.40			
7/30/2007	11:00:00 PM	236.90	60	0.0F	0.0F	237.70	60	237.70			
7/31/2007	12:00:00 AM	238.90	60	0.0F	0.0F	237.40	60	238.90			
7/31/2007	1:00:00 AM	236.00	60	0.0F	0.0F	240.30	60	240.30			240.3
7/31/2007	2:00:00 AM	237.60	60	0.0F	0.0F	237.60	60	237.60			
7/31/2007	3:00:00 AM	236.70	60	0.0F	0.0F	233.10	60	236.70			
7/31/2007	4:00:00 AM	237.30	60	0.0F	0.0F	235.90	60	237.30			
7/31/2007	5:00:00 AM	238.20	60	0.0F	0.0F	235.00	60	238.20			
7/31/2007	6:00:00 AM	237.00	60	0.0F	0.0F	227.80	60	237.00			
7/31/2007	7:00:00 AM	238.70	60	0.0F	0.0F	232.40	60	238.70			
7/31/2007	8:00:00 AM	240.90	60	0.0F	0.0F	231.10	60	240.90	240.9		
7/31/2007	9:00:00 AM	236.90	60	0.0F	0.0F	235.80	60	236.90			
7/31/2007	10:00:00 AM	239.90	60	0.0F	0.0F	235.50	60	239.90			
7/31/2007	11:00:00 AM	228.10	60	1.1F	0.0F	220.70	60	228.10			
7/31/2007	12:00:00 PM	232.60	60	0.0F	0.0F	227.50	60	232.60			
7/31/2007	1:00:00 PM	229.80	60	1.1F	0.0F	233.90	60	233.90			
7/31/2007	2:00:00 PM	239.90	60	0.3F	0.0F	234.80	60	239.90			
7/31/2007	3:00:00 PM	234.00	60	0.3F	0.0F	233.40	60	234.00			
7/31/2007	4:00:00 PM	232.00	60	0.3F	0.0F	210.60	60	232.00			
7/31/2007	5:00:00 PM	227.10	60	0.3F	0.0F	216.90	60	227.10			
7/31/2007	6:00:00 PM	225.70	60	0.3F	0.0F	206.40	60	225.70			
7/31/2007	7:00:00 PM	234.90	60	0.3F	0.0F	195.50	60	234.90			
7/31/2007	8:00:00 PM	235.00	60	0.3F	0.0F	174.20	60	235.00			
7/31/2007	9:00:00 PM	236.70	60	0.3F	0.0F	218.50	60	236.70			
7/31/2007	10:00:00 PM	234.90	60	0.3F	0.0F	233.80	60	234.90			
7/31/2007	11:00:00 PM	235.40	60	0.3F	0.0F	222.10	60	235.40			
8/1/2007	12:00:00 AM	233.50	60	0.3F	0.0F	230.10	60	233.50			
8/1/2007	1:00:00 AM	236.90	60	0.3F	0.0F	237.80	60	237.80			
8/1/2007	2:00:00 AM	235.70	60	0.3F	0.0F	236.20	60	236.20			
8/1/2007	3:00:00 AM	238.30	60	0.3F	0.0F	236.10	60	238.30			
8/1/2007	4:00:00 AM	234.00	60	0.3F	0.0F	224.40	60	234.00			
8/1/2007	5:00:00 AM	234.30	60	0.3F	0.0F	220.00	60	234.30			
8/1/2007	6:00:00 AM	231.30	60	0.3F	0.0F	219.20	60	231.30			
8/1/2007	7:00:00 AM	236.10	60	0.5F	0.0F	227.80	60	236.10			
8/1/2007	8:00:00 AM	240.80	60	0.3F	0.0F	194.70	60	240.80	240.8		
8/1/2007	9:00:00 AM	233.50	60	0.3F	0.0F	203.80	60	233.50			
8/1/2007	10:00:00 AM	231.50	60	0.3F	0.0F	221.00	60	231.50			
8/1/2007	11:00:00 AM	234.10	60	0.3F	0.0F	228.40	60	234.10			
8/1/2007	12:00:00 PM	231.70	60	0.5F	0.0F	235.20	60	235.20			
8/1/2007	1:00:00 PM	234.60	60	0.7F	0.0F	234.50	60	234.60			
8/1/2007	2:00:00 PM	234.90	60	0.5F	0.0F	232.70	60	234.90			
8/1/2007	3:00:00 PM	230.90	60	0.3F	0.0F	232.80	60	232.80			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMTRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMTRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMTRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
8/31/2007	12:00:00 AM	211.10	60	171.00	60	211.10	60	211.10			
8/31/2007	1:00:00 AM	206.70	60	200.50	60	212.00	60	212.00			
8/31/2007	2:00:00 AM	212.90	60	122.80	60	198.60	60	212.90			
8/31/2007	3:00:00 AM	215.60	60	177.10	60	198.70	60	215.60			
8/31/2007	4:00:00 AM	234.30	60	225.70	60	238.60	60	238.60			
8/31/2007	5:00:00 AM	234.40	60	238.10	60	237.20	60	238.10			
8/31/2007	6:00:00 AM	236.70	60	232.50	60	235.60	60	236.70			
8/31/2007	7:00:00 AM	236.60	60	232.80	60	228.80	60	236.60			
8/31/2007	8:00:00 AM	234.50	60	236.90	60	198.00	60	236.90			
8/31/2007	9:00:00 AM	235.70	60	235.80	60	208.10	60	235.80			
8/31/2007	10:00:00 AM	232.60	60	234.20	60	198.40	60	234.20			
8/31/2007	11:00:00 AM	238.00	60	229.40	60	171.10	60	238.00			
8/31/2007	12:00:00 PM	228.50	60	234.60	60	163.90	60	234.60			
8/31/2007	1:00:00 PM	236.00	60	232.90	60	188.50	60	236.00			
8/31/2007	2:00:00 PM	235.00	60	234.50	60	185.60	60	235.00			
8/31/2007	3:00:00 PM	232.00	60	231.60	60	188.30	60	232.00			
8/31/2007	4:00:00 PM	232.40	60	236.00	60	225.60	60	236.00			
8/31/2007	5:00:00 PM	241.40	60	236.20	60	220.90	60	241.40	241.4		
8/31/2007	6:00:00 PM	248.50	60	234.40	60	208.50	60	248.50	248.5		
8/31/2007	7:00:00 PM	241.60	60	235.90	60	197.40	60	241.60	241.6		
8/31/2007	8:00:00 PM	236.90	60	235.80	60	181.00	60	236.90			
8/31/2007	9:00:00 PM	235.70	60	234.80	60	175.60	60	235.70			
8/31/2007	10:00:00 PM	226.90	60	236.60	60	159.40	60	236.60			
8/31/2007	11:00:00 PM	234.80	60	234.30	60	145.00	60	234.80			
9/1/2007	12:00:00 AM	235.00	60	235.80	60	131.10	60	235.80			
9/1/2007	1:00:00 AM	235.80	60	234.50	60	134.30	60	235.80			
9/1/2007	2:00:00 AM	235.80	60	236.40	60	135.90	60	236.40			
9/1/2007	3:00:00 AM	236.50	60	235.30	60	135.40	60	236.50			
9/1/2007	4:00:00 AM	236.80	60	231.70	60	176.10	60	236.80			
9/1/2007	5:00:00 AM	234.50	60	235.10	60	180.90	60	235.10			
9/1/2007	6:00:00 AM	235.30	60	235.30	60	181.60	60	235.30			
9/1/2007	7:00:00 AM	237.80	60	234.40	60	180.40	60	237.80			
9/1/2007	8:00:00 AM	230.60	60	235.30	60	162.40	60	235.30			
9/1/2007	9:00:00 AM	240.10	60	235.60	60	159.70	60	240.10	240.1		
9/1/2007	10:00:00 AM	237.20	60	233.00	60	167.00	60	237.20			
9/1/2007	11:00:00 AM	233.30	60	235.30	60	164.10	60	235.30			
9/1/2007	12:00:00 PM	220.00	60	238.40	60	180.00	60	238.40			
9/1/2007	1:00:00 PM	204.80	60	229.20	60	196.20	60	229.20			
9/1/2007	2:00:00 PM	217.60	60	233.30	60	184.90	60	233.30			
9/1/2007	3:00:00 PM	237.20	60	233.90	60	197.60	60	237.20			
9/1/2007	4:00:00 PM	235.80	60	237.40	60	184.60	60	237.40			
9/1/2007	5:00:00 PM	235.90	60	230.40	60	183.00	60	235.90			
9/1/2007	6:00:00 PM	235.60	60	219.20	60	184.50	60	235.60			
9/1/2007	7:00:00 PM	234.00	60	220.40	60	183.80	60	234.00			
9/1/2007	8:00:00 PM	236.70	60	231.60	60	183.30	60	236.70			
9/1/2007	9:00:00 PM	235.70	60	235.50	60	192.10	60	235.70			
9/1/2007	10:00:00 PM	236.60	60	236.30	60	211.10	60	236.60			
9/1/2007	11:00:00 PM	233.60	60	234.90	60	210.60	60	234.90			
9/2/2007	12:00:00 AM	234.90	60	236.20	60	176.50	60	236.20			
9/2/2007	1:00:00 AM	232.80	60	235.80	60	178.70	60	235.80			
9/2/2007	2:00:00 AM	235.20	60	234.20	60	182.50	60	235.20			
9/2/2007	3:00:00 AM	234.50	60	236.00	60	181.30	60	236.00			
9/2/2007	4:00:00 AM	236.10	60	234.50	60	183.60	60	236.10			
9/2/2007	5:00:00 AM	234.00	60	236.10	60	185.90	60	236.10			
9/2/2007	6:00:00 AM	237.40	60	232.10	60	191.00	60	237.40			
9/2/2007	7:00:00 AM	235.50	60	235.00	60	208.90	60	235.50			
9/2/2007	8:00:00 AM	237.10	60	234.00	60	189.00	60	237.10			
9/2/2007	9:00:00 AM	235.60	60	235.50	60	176.60	60	235.60			
9/2/2007	10:00:00 AM	242.00	60	232.90	60	195.50	60	242.00	242		
9/2/2007	11:00:00 AM	251.70	60	235.50	60	210.70	60	251.70	251.7		
9/2/2007	12:00:00 PM	250.20	60	233.80	60	218.20	60	250.20	250.2		
9/2/2007	1:00:00 PM	245.40	60	234.70	60	216.00	60	245.40	245.4		
9/2/2007	2:00:00 PM	247.70	60	227.70	60	214.20	60	247.70	247.7		
9/2/2007	3:00:00 PM	247.10	60	233.20	60	215.50	60	247.10	247.1		
9/2/2007	4:00:00 PM	236.80	60	227.70	60	208.10	60	236.80			
9/2/2007	5:00:00 PM	223.30	60	228.40	60	209.80	60	228.40			
9/2/2007	6:00:00 PM	180.50	60	215.70	60	209.20	60	215.70			
9/2/2007	7:00:00 PM	181.50	60	188.60	60	181.00	60	188.60			
9/2/2007	8:00:00 PM	179.50	60	181.60	60	180.60	60	181.60			
9/2/2007	9:00:00 PM	182.20	60	179.10	60	182.30	60	182.30			
9/2/2007	10:00:00 PM	182.30	60	180.70	60	165.40	60	182.30			
9/2/2007	11:00:00 PM	179.70	60	179.80	60	174.90	60	179.80			
9/3/2007	12:00:00 AM	179.80	60	179.50	60	178.30	60	179.80			
9/3/2007	1:00:00 AM	179.50	60	179.90	60	169.20	60	179.90			
9/3/2007	2:00:00 AM	180.40	60	180.10	60	149.60	60	180.40			
9/3/2007	3:00:00 AM	178.80	60	181.80	60	182.00	60	182.00			
9/3/2007	4:00:00 AM	174.50	60	179.40	60	181.40	60	181.40			
9/3/2007	5:00:00 AM	180.60	60	186.00	60	181.70	60	186.00			
9/3/2007	6:00:00 AM	171.40	60	184.20	60	130.10	60	184.20			
9/3/2007	7:00:00 AM	189.70	60	178.20	60	188.40	60	189.70			
9/3/2007	8:00:00 AM	184.70	60	179.90	60	166.60	60	184.70			
9/3/2007	9:00:00 AM	156.70	60	197.70	60	156.00	60	197.70			
9/3/2007	10:00:00 AM	170.20	60	189.00	60	189.90	60	189.90			
9/3/2007	11:00:00 AM	171.50	60	194.90	60	190.00	60	194.90			
9/3/2007	12:00:00 PM	170.20	60	207.60	60	205.40	60	207.60			
9/3/2007	1:00:00 PM	184.60	60	208.30	60	187.30	60	208.30			
9/3/2007	2:00:00 PM	199.20	60	232.30	60	205.00	60	232.30			
9/3/2007	3:00:00 PM	216.60	60	232.60	60	211.80	60	232.60			

Plant Name: PNLA Page: 1
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
9/29/2007	8:00:00 AM	237.40	60	235.20	60	235.60	60	237.40			
9/29/2007	9:00:00 AM	233.40	60	234.60	60	235.10	60	235.10			
9/29/2007	10:00:00 AM	233.20	60	233.80	60	207.80	60	233.80			
9/29/2007	11:00:00 AM	179.50	60	234.10	60	232.20	60	234.10			
9/29/2007	12:00:00 PM	218.40	60	233.50	60	234.90	60	234.90			
9/29/2007	1:00:00 PM	230.20	60	231.70	60	235.80	60	235.80			
9/29/2007	2:00:00 PM	230.30	60	218.30	60	238.40	60	238.40			
9/29/2007	3:00:00 PM	226.80	60	216.10	60	234.50	60	234.50			
9/29/2007	4:00:00 PM	230.50	60	224.20	60	234.70	60	234.70			
9/29/2007	5:00:00 PM	227.70	60	235.20	60	235.40	60	235.40			
9/29/2007	6:00:00 PM	227.70	60	233.10	60	236.30	60	236.30			
9/29/2007	7:00:00 PM	236.40	60	236.10	60	214.90	60	236.40			
9/29/2007	8:00:00 PM	236.50	60	233.60	60	178.90	60	236.50			
9/29/2007	9:00:00 PM	237.60	60	239.70	60	209.10	60	239.70			
9/29/2007	10:00:00 PM	236.70	60	236.30	60	191.80	60	236.70			
9/29/2007	11:00:00 PM	236.70	60	236.10	60	194.20	60	236.70			
9/30/2007	12:00:00 AM	237.20	60	237.10	60	185.10	60	237.20			
9/30/2007	1:00:00 AM	233.90	60	238.30	60	176.30	60	238.30			
9/30/2007	2:00:00 AM	236.50	60	235.90	60	232.50	60	236.50			
9/30/2007	3:00:00 AM	237.90	60	221.90	60	237.30	60	237.90			
9/30/2007	4:00:00 AM	237.00	60	230.40	60	236.60	60	237.00			
9/30/2007	5:00:00 AM	234.90	60	239.20	60	236.40	60	239.20			
9/30/2007	6:00:00 AM	238.60	60	233.70	60	236.40	60	238.60			
9/30/2007	7:00:00 AM	236.10	60	231.60	60	232.50	60	236.10			
9/30/2007	8:00:00 AM	236.40	60	220.70	60	237.30	60	237.30			
9/30/2007	9:00:00 AM	235.30	60	207.50	60	236.20	60	236.20			
9/30/2007	10:00:00 AM	235.40	60	215.00	60	235.30	60	235.40			
9/30/2007	11:00:00 AM	236.50	60	222.80	60	229.80	60	236.50			
9/30/2007	12:00:00 PM	235.70	60	239.50	60	212.80	60	239.50			
9/30/2007	1:00:00 PM	234.40	60	227.60	60	201.70	60	234.40			
9/30/2007	2:00:00 PM	237.00	60	237.80	60	199.60	60	237.80			
9/30/2007	3:00:00 PM	213.30	60	233.40	60	171.80	60	233.40			
9/30/2007	4:00:00 PM	182.40	60	231.70	60	176.20	60	231.70			
9/30/2007	5:00:00 PM	185.60	60	224.70	60	180.10	60	224.70			
9/30/2007	6:00:00 PM	198.70	60	218.70	60	178.80	60	218.70			
9/30/2007	7:00:00 PM	214.60	60	202.40	60	185.50	60	214.60			
9/30/2007	8:00:00 PM	191.60	60	222.10	60	179.00	60	222.10			
9/30/2007	9:00:00 PM	216.30	60	235.10	60	198.10	60	235.10			
9/30/2007	10:00:00 PM	237.30	60	230.80	60	233.40	60	237.30			
9/30/2007	11:00:00 PM	226.90	60	230.40	60	232.70	60	232.70			
10/1/2007	12:00:00 AM	230.60	60	229.80	60	230.70	60	230.70			
10/1/2007	1:00:00 AM	232.00	60	227.50	60	233.50	60	233.50			
10/1/2007	2:00:00 AM	220.10	60	198.60	60	214.40	60	220.10			
10/1/2007	3:00:00 AM	211.40	60	193.90	60	186.40	60	211.40			
10/1/2007	4:00:00 AM	231.90	60	218.60	60	227.10	60	231.90			
10/1/2007	5:00:00 AM	237.80	60	223.20	60	236.60	60	237.80			
10/1/2007	6:00:00 AM	227.20	60	230.00	60	231.80	60	231.80			
10/1/2007	7:00:00 AM	211.90	60	225.50	60	229.30	60	229.30			
10/1/2007	8:00:00 AM	204.90	60	220.50	60	228.10	60	228.10			
10/1/2007	9:00:00 AM	219.80	60	226.20	60	216.00	60	226.20			
10/1/2007	10:00:00 AM	235.30	60	230.60	60	219.60	60	235.30			
10/1/2007	11:00:00 AM	232.00	60	226.00	60	234.50	60	234.50			
10/1/2007	12:00:00 PM	231.60	60	228.10	60	233.10	60	233.10			
10/1/2007	1:00:00 PM	234.60	60	234.10	60	235.60	60	235.60			
10/1/2007	2:00:00 PM	219.80	60	236.40	60	234.40	60	236.40			
10/1/2007	3:00:00 PM	223.30	60	235.70	60	231.10	60	235.70			
10/1/2007	4:00:00 PM	225.30	60	236.10	60	233.40	60	236.10			
10/1/2007	5:00:00 PM	224.10	60	231.50	60	236.20	60	236.20			
10/1/2007	6:00:00 PM	234.90	60	196.30	60	237.50	60	237.50			
10/1/2007	7:00:00 PM	239.30	60	220.30	60	217.30	60	239.30			
10/1/2007	8:00:00 PM	238.00	60	222.30	60	209.50	60	238.00			
10/1/2007	9:00:00 PM	240.20	60	235.00	60	210.70	60	240.20	240.2		
10/1/2007	10:00:00 PM	240.60	60	212.50	60	224.10	60	240.60	240.6		
10/1/2007	11:00:00 PM	237.80	60	194.80	60	224.90	60	237.80			
10/2/2007	12:00:00 AM	237.80	60	226.90	60	235.30	60	237.80			
10/2/2007	1:00:00 AM	236.10	60	228.10	60	234.50	60	236.10			
10/2/2007	2:00:00 AM	238.00	60	228.70	60	234.70	60	238.00			
10/2/2007	3:00:00 AM	214.80	60	216.90	60	209.50	60	216.90			
10/2/2007	4:00:00 AM	186.70	60	198.50	60	182.60	60	198.50			
10/2/2007	5:00:00 AM	193.00	60	209.70	60	180.90	60	209.70			
10/2/2007	6:00:00 AM	212.50	60	206.00	60	195.40	60	212.50			
10/2/2007	7:00:00 AM	235.50	60	214.40	60	200.70	60	235.50			
10/2/2007	8:00:00 AM	233.70	60	236.80	60	230.90	60	236.80			
10/2/2007	9:00:00 AM	235.70	60	230.80	60	215.70	60	235.70			
10/2/2007	10:00:00 AM	226.70	60	232.80	60	229.60	60	232.80			
10/2/2007	11:00:00 AM	190.60	60	222.40	60	222.20	60	222.40			
10/2/2007	12:00:00 PM	199.10	60	215.90	60	203.70	60	215.90			
10/2/2007	1:00:00 PM	231.50	60	236.80	60	194.70	60	236.80			
10/2/2007	2:00:00 PM	235.60	60	234.80	60	193.40	60	235.60			
10/2/2007	3:00:00 PM	232.40	60	234.40	60	190.60	60	234.40			
10/2/2007	4:00:00 PM	236.00	60	233.10	60	199.90	60	236.00			
10/2/2007	5:00:00 PM	234.60	60	231.90	60	178.00	60	234.60			
10/2/2007	6:00:00 PM	219.10	60	220.70	60	146.60	60	220.70			
10/2/2007	7:00:00 PM	227.20	60	226.30	60	212.50	60	227.20			
10/2/2007	8:00:00 PM	229.50	60	229.60	60	226.90	60	229.50			
10/2/2007	9:00:00 PM	233.90	60	228.80	60	231.50	60	233.90			
10/2/2007	10:00:00 PM	235.40	60	230.70	60	231.70	60	235.40			
10/2/2007	11:00:00 PM	233.90	60	234.50	60	232.50	60	234.50			

Plant Name: PNLA
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Page: 1

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
11/1/2007	8:00:00 AM	232.10	60	0.0F	0.0F	238.30	60	238.30			
11/1/2007	9:00:00 AM	228.30	60	0.0F	0.0F	236.20	60	236.20			
11/1/2007	10:00:00 AM	229.50	60	0.0F	0.0F	234.70	60	234.70			
11/1/2007	11:00:00 AM	234.90	60	0.0F	0.0F	233.50	60	234.90			
11/1/2007	12:00:00 PM	219.70	60	0.0F	0.0F	226.90	60	226.90			
11/1/2007	1:00:00 PM	199.50	60	2.0F	0.0F	234.10	60	234.10			
11/1/2007	2:00:00 PM	225.60	60	0.0F	0.0F	229.80	60	229.80			
11/1/2007	3:00:00 PM	233.10	60	0.0F	0.0F	235.50	60	235.50			
11/1/2007	4:00:00 PM	235.40	60	0.0F	0.0F	233.60	60	235.40			
11/1/2007	5:00:00 PM	237.60	60	0.0F	0.0F	236.30	60	237.60			
11/1/2007	6:00:00 PM	236.70	60	0.0F	0.0F	234.10	60	236.70			
11/1/2007	7:00:00 PM	229.30	60	0.0F	0.0F	237.50	60	237.50			
11/1/2007	8:00:00 PM	239.60	60	0.0F	0.0F	239.30	60	239.60			
11/1/2007	9:00:00 PM	210.20	60	0.0F	0.0F	239.40	60	239.40			
11/1/2007	10:00:00 PM	239.30	60	0.0F	0.0F	239.40	60	239.40			
11/1/2007	11:00:00 PM	234.00	60	0.0F	0.0F	235.80	60	235.80			
11/2/2007	12:00:00 AM	239.40	60	0.0F	0.0F	236.90	60	239.40			
11/2/2007	1:00:00 AM	233.70	60	0.0F	0.0F	234.70	60	234.70			
11/2/2007	2:00:00 AM	233.50	60	0.0F	0.0F	235.30	60	235.30			
11/2/2007	3:00:00 AM	236.10	60	0.0F	0.0F	234.20	60	236.10			
11/2/2007	4:00:00 AM	236.10	60	0.0F	0.0F	238.10	60	238.10			
11/2/2007	5:00:00 AM	233.70	60	0.0F	0.0F	233.10	60	233.70			
11/2/2007	6:00:00 AM	231.90	60	0.0F	0.0F	235.80	60	235.80			
11/2/2007	7:00:00 AM	214.20	60	0.0F	0.0F	230.80	60	230.80			
11/2/2007	8:00:00 AM	239.00	60	0.0F	0.0F	232.50	60	239.00			
11/2/2007	9:00:00 AM	234.50	60	0.0F	0.0F	231.40	60	234.50			
11/2/2007	10:00:00 AM	209.10	60	0.0F	0.0F	229.30	60	229.30			
11/2/2007	11:00:00 AM	195.20	60	0.0F	0.0F	188.70	60	195.20			
11/2/2007	12:00:00 PM	180.00	60	0.0F	0.0F	179.30	60	180.00			
11/2/2007	1:00:00 PM	197.70	60	0.0F	0.0F	178.70	60	197.70			
11/2/2007	2:00:00 PM	181.60	60	0.0F	0.0F	178.60	60	181.60			
11/2/2007	3:00:00 PM	179.10	60	0.0F	0.0F	182.60	60	182.60			
11/2/2007	4:00:00 PM	179.40	60	0.0F	0.0F	182.60	60	182.60			
11/2/2007	5:00:00 PM	177.50	60	0.0F	0.0F	180.10	60	180.10			
11/2/2007	6:00:00 PM	195.70	60	0.0F	0.0F	192.30	60	195.70			
11/2/2007	7:00:00 PM	209.10	60	0.0F	0.0F	194.20	60	209.10			
11/2/2007	8:00:00 PM	213.70	60	0.0F	0.0F	204.20	60	213.70			
11/2/2007	9:00:00 PM	235.10	60	0.0F	0.0F	226.00	60	235.10			
11/2/2007	10:00:00 PM	233.20	60	0.0F	0.0F	234.10	60	234.10			
11/2/2007	11:00:00 PM	232.80	60	0.0F	0.0F	234.50	60	234.50			
11/3/2007	12:00:00 AM	239.60	60	0.0F	0.0F	239.10	60	239.60			
11/3/2007	1:00:00 AM	241.00	60	0.0F	0.0F	232.20	60	241.00	241		
11/3/2007	2:00:00 AM	233.70	60	0.0F	0.0F	236.30	60	236.30			
11/3/2007	3:00:00 AM	236.60	60	0.0F	0.0F	235.40	60	236.60			
11/3/2007	4:00:00 AM	236.70	60	0.0F	0.0F	235.50	60	236.70			
11/3/2007	5:00:00 AM	239.70	60	0.0F	0.0F	237.00	60	239.70			
11/3/2007	6:00:00 AM	238.50	60	0.0F	0.0F	236.60	60	238.50			
11/3/2007	7:00:00 AM	230.60	60	0.0F	0.0F	232.30	60	232.30			
11/3/2007	8:00:00 AM	223.40	60	0.0F	0.0F	234.80	60	234.80			
11/3/2007	9:00:00 AM	229.90	60	0.0F	0.0F	233.00	60	233.00			
11/3/2007	10:00:00 AM	212.30	60	0.0F	0.0F	229.70	60	229.70			
11/3/2007	11:00:00 AM	224.40	60	0.0F	0.0F	237.60	60	237.60			
11/3/2007	12:00:00 PM	217.90	60	0.0F	0.0F	233.90	60	233.90			
11/3/2007	1:00:00 PM	233.10	60	0.0F	0.0F	235.70	60	235.70			
11/3/2007	2:00:00 PM	233.70	60	0.0F	0.0F	234.60	60	234.60			
11/3/2007	3:00:00 PM	222.30	60	0.0F	0.0F	238.90	60	238.90			
11/3/2007	4:00:00 PM	219.30	60	0.0F	0.0F	240.10	60	240.10			240.1
11/3/2007	5:00:00 PM	235.20	60	0.0F	0.0F	240.70	60	240.70			240.7
11/3/2007	6:00:00 PM	231.50	60	0.0F	0.0F	232.70	60	232.70			
11/3/2007	7:00:00 PM	231.10	60	0.0F	0.0F	241.80	60	241.80			241.8
11/3/2007	8:00:00 PM	238.20	60	0.0F	0.0F	235.40	60	238.20			
11/3/2007	9:00:00 PM	239.00	60	0.0F	0.0F	236.50	60	239.00			
11/3/2007	10:00:00 PM	235.90	60	0.0F	0.0F	237.80	60	237.80			
11/3/2007	11:00:00 PM	238.20	60	0.0F	0.0F	240.40	60	240.40			240.4
11/4/2007	12:00:00 AM	238.20	60	0.0F	0.0F	236.40	60	238.20			
11/4/2007	1:00:00 AM	236.20	60	0.0F	0.0F	240.30	60	240.30			240.3
11/4/2007	2:00:00 AM	236.70	60	0.0F	0.0F	236.50	60	236.70			
11/4/2007	3:00:00 AM	240.00	60	0.0F	0.0F	236.00	60	240.00			
11/4/2007	4:00:00 AM	238.10	60	0.0F	0.0F	238.00	60	238.10			
11/4/2007	5:00:00 AM	237.20	60	0.0F	0.0F	238.30	60	238.30			
11/4/2007	6:00:00 AM	239.40	60	0.0F	0.0F	237.80	60	239.40			
11/4/2007	7:00:00 AM	236.50	60	0.0F	0.0F	237.00	60	237.00			
11/4/2007	8:00:00 AM	228.80	60	0.0F	0.0F	241.00	60	241.00			241
11/4/2007	9:00:00 AM	218.30	60	0.0F	0.0F	237.00	60	237.00			
11/4/2007	10:00:00 AM	179.60	60	0.0F	0.0F	237.40	60	237.40			
11/4/2007	11:00:00 AM	87.20	33	0.0F	0.0F	239.50	60	239.50			
11/4/2007	12:00:00 PM	36.50	3	0.0F	0.0F	238.20	60	238.20			
11/4/2007	1:00:00 PM	13.2F	0.0F	0.0F	0.0F	235.10	60	235.10			
11/4/2007	2:00:00 PM	5.1F	0.0F	0.0F	0.0F	237.90	60	237.90			
11/4/2007	3:00:00 PM	2.3F	0.0F	0.0F	0.0F	241.00	60	241.00			241
11/4/2007	4:00:00 PM	1.8F	0.0F	0.0F	0.0F	237.20	60	237.20			
11/4/2007	5:00:00 PM	1.8F	0.0F	0.0F	0.0F	236.20	60	236.20			
11/4/2007	6:00:00 PM	1.8F	0.0F	0.0F	0.0F	237.30	60	237.30			
11/4/2007	7:00:00 PM	1.8F	0.0F	0.0F	0.0F	235.20	60	235.20			
11/4/2007	8:00:00 PM	1.8F	0.0F	0.0F	0.0F	235.70	60	235.70			
11/4/2007	9:00:00 PM	1.8F	0.0F	0.0F	0.0F	233.40	60	233.40			
11/4/2007	10:00:00 PM	1.8F	0.0F	0.0F	0.0F	235.20	60	235.20			
11/4/2007	11:00:00 PM	1.7F	0.0F	0.0F	0.0F	235.80	60	235.80			

Plant Name: PNLA Page: 1
 General Average Report
 Reporting Period: 01/01/2007 to 12/31/2007

Date	Time	STMRPT_1 (KLB/HR)	UNITON_1 (MINS)	STMRPT_2 (KLB/HR)	UNITON_2 (MINS)	STMRPT_3 (KLB/HR)	UNITON_3 (MINS)	Max	Unit 1 >240	Unit 2 >240	Unit 3 >240
11/30/2007	4:00:00 PM	171.70	60	170.70	60	196.80	60	196.80			
11/30/2007	5:00:00 PM	170.70	60	170.60	60	193.20	60	193.20			
11/30/2007	6:00:00 PM	171.80	60	173.50	60	195.60	60	195.60			
11/30/2007	7:00:00 PM	192.80	60	188.50	60	180.60	60	192.80			
11/30/2007	8:00:00 PM	204.00	60	195.50	60	176.40	60	204.00			
11/30/2007	9:00:00 PM	233.20	60	221.80	60	219.60	60	233.20			
11/30/2007	10:00:00 PM	235.80	60	234.00	60	223.90	60	235.80			
11/30/2007	11:00:00 PM	237.80	60	235.90	60	230.10	60	237.80			
12/1/2007	12:00:00 AM	239.20	60	229.90	60	234.10	60	239.20			
12/1/2007	1:00:00 AM	238.10	60	214.70	60	236.00	60	238.10			
12/1/2007	2:00:00 AM	230.40	60	224.70	60	234.30	60	234.30			
12/1/2007	3:00:00 AM	234.60	60	234.20	60	237.10	60	237.10			
12/1/2007	4:00:00 AM	236.50	60	231.70	60	237.30	60	237.30			
12/1/2007	5:00:00 AM	241.70	60	236.80	60	237.80	60	241.70	241.7		
12/1/2007	6:00:00 AM	240.40	60	240.50	60	239.00	60	240.50	240.4	240.5	
12/1/2007	7:00:00 AM	239.20	60	239.60	60	238.60	60	239.60			
12/1/2007	8:00:00 AM	185.60	60	237.90	60	240.50	60	240.50			240.5
12/1/2007	9:00:00 AM	146.60	60	236.00	60	242.30	60	242.30			242.3
12/1/2007	10:00:00 AM	143.90	60	237.60	60	238.20	60	238.20			
12/1/2007	11:00:00 AM	203.20	60	241.40	60	236.20	60	241.40		241.4	
12/1/2007	12:00:00 PM	236.50	60	238.80	60	238.50	60	238.80			
12/1/2007	1:00:00 PM	237.60	60	238.10	60	234.70	60	238.10			
12/1/2007	2:00:00 PM	240.10	60	238.10	60	239.60	60	240.10	240.1		
12/1/2007	3:00:00 PM	238.00	60	239.00	60	239.70	60	239.70			
12/1/2007	4:00:00 PM	240.70	60	241.20	60	241.10	60	241.20	240.7	241.2	241.1
12/1/2007	5:00:00 PM	241.70	60	239.60	60	240.70	60	241.70	241.7		240.7
12/1/2007	6:00:00 PM	242.20	60	238.90	60	238.60	60	242.20	242.2		
12/1/2007	7:00:00 PM	242.40	60	237.30	60	231.90	60	242.40	242.4		
12/1/2007	8:00:00 PM	244.40	60	227.30	60	239.80	60	244.40	244.4		
12/1/2007	9:00:00 PM	239.60	60	228.80	60	243.70	60	243.70			243.7
12/1/2007	10:00:00 PM	240.60	60	243.80	60	234.10	60	243.80	240.6	243.8	
12/1/2007	11:00:00 PM	242.60	60	241.80	60	239.90	60	242.60	242.6	241.8	
12/2/2007	12:00:00 AM	240.40	60	239.80	60	238.30	60	240.40	240.4		
12/2/2007	1:00:00 AM	241.50	60	239.30	60	239.20	60	241.50	241.5		
12/2/2007	2:00:00 AM	242.50	60	240.50	60	234.90	60	242.50	242.5	240.5	
12/2/2007	3:00:00 AM	238.00	60	238.80	60	241.80	60	241.80			241.8
12/2/2007	4:00:00 AM	240.70	60	239.80	60	241.20	60	241.20	240.7		241.2
12/2/2007	5:00:00 AM	233.00	60	241.00	60	242.70	60	242.70		241	242.7
12/2/2007	6:00:00 AM	240.10	60	240.00	60	241.50	60	241.50	240.1		241.5
12/2/2007	7:00:00 AM	203.50	60	203.40	60	207.00	60	207.00			
12/2/2007	8:00:00 AM	181.30	60	179.80	60	173.50	60	181.30			
12/2/2007	9:00:00 AM	179.90	60	181.10	60	175.20	60	181.10			
12/2/2007	10:00:00 AM	181.00	60	179.80	60	171.00	60	181.00			
12/2/2007	11:00:00 AM	179.50	60	180.60	60	200.70	60	200.70			
12/2/2007	12:00:00 PM	192.90	60	208.00	60	225.80	60	225.80			
12/2/2007	1:00:00 PM	241.90	60	236.50	60	240.20	60	241.90	241.9		240.2
12/2/2007	2:00:00 PM	240.60	60	237.60	60	248.30	60	248.30	240.6		248.3
12/2/2007	3:00:00 PM	240.50	60	239.70	60	245.90	60	245.90	240.5	240.5	245.9
12/2/2007	4:00:00 PM	238.60	60	233.70	60	236.70	60	238.60			
12/2/2007	5:00:00 PM	227.80	60	233.00	60	239.10	60	239.10			
12/2/2007	6:00:00 PM	204.40	60	231.60	60	238.90	60	238.90			
12/2/2007	7:00:00 PM	190.10	60	231.40	60	236.70	60	236.70			
12/2/2007	8:00:00 PM	237.00	60	227.40	60	234.00	60	237.00			
12/2/2007	9:00:00 PM	226.60	60	198.80	60	194.40	60	226.60			
12/2/2007	10:00:00 PM	210.80	60	191.80	60	180.90	60	210.80			
12/2/2007	11:00:00 PM	211.80	60	190.10	60	187.60	60	211.80			
12/3/2007	12:00:00 AM	192.30	60	175.30	60	216.80	60	216.80			
12/3/2007	1:00:00 AM	168.90	60	156.30	60	192.30	60	192.30			
12/3/2007	2:00:00 AM	168.00	60	156.10	60	154.80	60	168.00			
12/3/2007	3:00:00 AM	169.60	60	155.20	60	160.20	60	169.60			
12/3/2007	4:00:00 AM	172.90	60	143.10	60	156.40	60	172.90			
12/3/2007	5:00:00 AM	167.90	60	178.50	60	179.70	60	179.70			
12/3/2007	6:00:00 AM	173.90	60	168.60	60	186.90	60	186.90			
12/3/2007	7:00:00 AM	174.10	60	172.10	60	189.20	60	189.20			
12/3/2007	8:00:00 AM	173.90	60	167.10	60	183.70	60	183.70			
12/3/2007	9:00:00 AM	180.00	60	181.40	60	178.50	60	181.40			
12/3/2007	10:00:00 AM	178.50	60	174.80	60	175.70	60	178.50			
12/3/2007	11:00:00 AM	179.10	60	170.10	60	175.50	60	179.10			
12/3/2007	12:00:00 PM	177.60	60	170.70	60	176.00	60	177.60			
12/3/2007	1:00:00 PM	176.10	60	179.80	60	161.60	60	179.80			
12/3/2007	2:00:00 PM	177.60	60	180.70	60	200.50	60	200.50			
12/3/2007	3:00:00 PM	176.80	60	179.40	60	192.80	60	192.80			
12/3/2007	4:00:00 PM	177.60	60	180.40	60	195.20	60	195.20			
12/3/2007	5:00:00 PM	174.70	60	181.40	60	194.60	60	194.60			
12/3/2007	6:00:00 PM	175.20	60	180.40	60	181.90	60	181.90			
12/3/2007	7:00:00 PM	176.50	60	180.80	60	184.70	60	184.70			
12/3/2007	8:00:00 PM	178.50	60	181.10	60	178.20	60	181.10			
12/3/2007	9:00:00 PM	175.90	60	180.60	60	182.50	60	182.50			
12/3/2007	10:00:00 PM	178.00	60	180.20	60	185.80	60	185.80			
12/3/2007	11:00:00 PM	176.40	60	179.30	60	185.00	60	185.00			
12/4/2007	12:00:00 AM	169.60	60	179.90	60	180.90	60	180.90			
12/4/2007	1:00:00 AM	173.10	60	180.30	60	186.50	60	186.50			
12/4/2007	2:00:00 AM	173.30	60	180.10	60	185.10	60	185.10			
12/4/2007	3:00:00 AM	177.30	60	180.20	60	181.60	60	181.60			
12/4/2007	4:00:00 AM	180.50	60	180.40	60	182.70	60	182.70			
12/4/2007	5:00:00 AM	196.60	60	184.10	60	189.00	60	196.60			
12/4/2007	6:00:00 AM	228.80	60	210.90	60	219.90	60	228.80			
12/4/2007	7:00:00 AM	236.00	60	235.70	60	235.10	60	236.00			

Attachment 3

Pre and Post CEMS Replacement Data (7-day period)

- **Minute-by-Minute SO₂ and CO Data (complete data is provided on a CD)**
- **Hour-by-Hour SO₂ and CO Data**
- **Estimated Lime Injection Rates**

Example of July 2008 Minute-by-Minute CEMS Data

Report Period: 4-Jan-2009 through 10-Jan-2009
 Site Name: UNIT 2

Data Averaging Type:	1 minute	SO2_OUT2	SO2IDS2O	STMDISP 2	SO2ODSP2
Date	Time	(PPMD)	(PPMDC)	(KL B/HR)	(PPMDC)
4-Jan-2009	0:00	3.1	0.00<	177.4	4.52
	0:01	0.3	0.00<	170.9	0.49
	0:02	0.1	0.00<	168.6	0.18
	0:03	2.4	0.00<	168.7	3.79
	0:04	3.2	0.00<	172.5	4.74
	0:05	3.3	0.00<	174.4	4.7
	0:06	1.9	0.00<	170.9	2.98
	0:07	0.7	0.00<	166.8	1.14
	0:08	1.2	0.00<	164.2	1.96
	0:09	2.2	0.00<	169.4	3.4
	0:10	2.6	0.00<	172.6	3.91
	0:11	1.9	0.00<	175	2.94
	0:12	1.7	0.00<	176.7	2.55
	0:13	1.2	0.00<	177.4	1.86
	0:14	1.1	0.00<	177.8	1.59
	0:15	1.2	0.00<	175.4	1.84
	0:16	0.6	0.00<	173.4	0.89
	0:17	0.7	0.00<	173.2	1.09
	0:18	1.6	0.00<	174.1	2.5
	0:19	1.8	0.00<	171.9	2.82
	0:20	0.7	0.00<	169.4	1.13
	0:21	0.7	0.00<	167.9	1.15
	0:22	1.4	0.00<	169.7	2.25
	0:23	1.9	0.00<	172.9	2.88
	0:24	2.4	0.00<	173.5	3.64
	0:25	1.7	0.00<	169.7	2.85
	0:26	1.5	0.00<	166.4	2.51
	0:27	2	0.00<	165.7	3.19
	0:28	2	0.00<	168.1	3.13
	0:29	2.4	0.00<	171.8	3.68
	0:30	2.5	0.00<	174.9	3.71
	0:31	1.5	0.00<	171.7	2.2
	0:32	0.4	0.00<	169.6	0.62
	0:33	1.5	0.00<	173.7	2.25
	0:34	3.2	0.00<	177.2	4.41
	0:35	1.4	0.00<	173.7	2.01
	0:36	0	0.00<	172.3	0
	0:37	0.6	0.00<	172.9	0.95
	0:38	1.5	0.00<	171.7	2.4
	0:39	0.7	0.00<	170.1	1.08
	0:40	0.6	0.00<	170.5	0.96
	0:41	1.2	0.00<	171.7	1.86

Report Period: 4-Jan-2009 through 10-Jan-2009
 Site Name: UNIT 2

Data Averaging Type:	1 minute	SO2_OUT2	SO2IDS2O	STMDISP 2	SO2ODSP2
Date	Time	(PPMD)	(PPMDC)	(KL B/HR)	(PPMDC)
	0:42	0.8	0.00<	173.2	1.26
	0:43	1.2	0.00<	174.9	1.65
	0:44	1.6	0.00<	172.7	2.37
	0:45	0.8	0.00<	169.3	1.25
	0:46	0.9	0.00<	170.1	1.35
	0:47	1.6	0.00<	172.3	2.42
	0:48	1.5	0.00<	173.9	2.25
	0:49	1.1	0.00<	172.8	1.64
	0:50	0	0.00<	169.2	0
	0:51	0	0.00<	167.5	0
	0:52	0	0.00<	167.4	0
	0:53	0	0.00<	173.4	0
	0:54	0.7	0.00<	177.6	0.97
	0:55	0	0.00<	174.3	0
	0:56	0.1	0.00<	171.7	0
	0:57	6.6	0.00<	170.9	10.7
	0:58	7.9	0.00<	172.4	11.7
	0:59	1.7	0.00<	175.9	2.42
	1:00	0.8	0.00<	177.3	1.15
	1:01	0	0.00<	177.9	0
	1:02	0	0.00<	176.2	0
	1:03	0	0.00<	175.2	0
	1:04	0.3	0.00<	174.5	0.37
	1:05	0.8	0.00<	171.8	1.35
	1:06	0.8	0.00<	171.6	1.27
	1:07	0.8	0.00<	174	1.25
	1:08	0.9	0.00<	173.7	1.33
	1:09	0	0.00<	168.4	0
	1:10	0	0.00<	164.5	0
	1:11	0	0.00<	164.1	0
	1:12	0.8	0.00<	165.6	1.24
	1:13	0.5	0.00<	167.9	0.74
	1:14	0.2	0.00<	171.8	0.28
	1:15	1.1	0.00<	175.3	1.6
	1:16	1.4	0.00<	174.5	2.04
	1:17	0	0.00<	170.4	0
	1:18	0	0.00<	167.1	0
	1:19	0.9	0.00<	167.6	1.47
	1:20	1	0.00<	170.8	1.51
	1:21	0.5	0.00<	174.6	0.77
	1:22	0.7	0.00<	174.6	0.98
	1:23	0.1	0.00<	169.6	0.17

**Pinellas County Resource Recovery Facility
Pinellas County, Florida**

1-min report for the period from 1/1/2009 12:00:00 AM to 1/10/2009 11:59:59 PM

Base Interval: 1-min

Day	Time	B2 Out	B2 Out	B2 Out O2	B2 Out O2	B2 Out O2	B2 Steam
		Meas NOx	Meas SO2	Corr NOx	Corr SO2		Rate
		ppm	ppm	ppm	ppm	%	Kpph
	00:00	98.7	3.1	163.4	5.1	12.51	171.4
	00:01	108.7	3.0	166.7	4.6	11.84	173.8
	00:02	106.6	2.5	163.7	3.8	11.85	171.5
	00:03	88.6	2.2	153.7	3.9	12.90	166.8
	00:04	77.1	2.5	141.4	4.5	13.33	163.7
	00:05	83.8	2.8	147.3	4.9	12.99	167.9
	00:06	96.1	2.9	160.1	4.8	12.56	171.8
	00:07	102.8	2.6	165.7	4.2	12.28	174.0
	00:08	105.6	2.6	169.5	4.2	12.24	176.3
	00:09	105.2	2.5	168.4	4.1	12.21	176.6
	00:10	104.9	2.7	173.1	4.5	12.47	177.9
	00:11	103.7	2.9	165.4	4.6	12.19	175.5
	00:12	98.1	2.7	167.6	4.6	12.77	173.4
	00:13	96.0	2.8	164.4	4.7	12.78	172.6
	00:14	100.1	2.9	170.7	5.0	12.75	173.4
	00:15	102.6	2.9	171.1	4.8	12.57	171.9
	00:16	95.7	2.5	169.1	4.4	13.03	169.3
	00:17	93.7	2.5	172.0	4.6	13.33	167.6
	00:18	99.9	2.8	176.7	4.9	13.04	168.6
	00:19	108.5	3.0	180.6	5.1	12.55	171.9
	00:20	113.5	3.1	180.8	4.9	12.17	173.4
	00:21	105.7	2.6	174.9	4.4	12.51	169.8
	00:22	94.1	2.5	170.8	4.5	13.24	166.7
	00:23	92.8	2.7	168.7	4.9	13.26	165.2
	00:24	100.7	2.7	170.1	4.6	12.67	167.1
	00:25	107.3	2.8	177.2	4.6	12.49	170.2
	00:26	111.7	2.9	179.9	4.6	12.27	174.4
	00:27	112.1	2.6	176.8	4.1	12.09	172.0
	00:28	100.8	2.4	171.9	4.2	12.75	169.2
	00:29	96.5	2.9	170.6	5.1	13.03	172.7
	00:30	106.3	3.2	162.4	4.9	11.80	176.6
	00:31	109.2	2.5	165.3	3.8	11.71	173.9
	00:32	99.2	2.4	168.3	4.1	12.70	171.9
	00:33	98.7	2.8	168.3	4.7	12.75	172.5
	00:34	101.4	2.8	165.9	4.6	12.40	171.9
	00:35	94.0	2.8	163.6	4.8	12.91	169.6
	00:36	93.2	2.9	159.1	5.0	12.76	169.8
	00:37	102.0	3.0	166.3	5.0	12.38	171.2
	00:38	106.0	2.8	172.7	4.5	12.37	172.4
	00:39	110.7	2.9	179.3	4.7	12.32	174.2
	00:40	111.7	2.8	170.4	4.3	11.79	173.1
	00:41	98.6	2.3	164.7	3.8	12.59	169.2
	00:42	91.7	2.6	160.9	4.5	12.98	169.4
	00:43	98.7	3.0	160.6	4.9	12.36	171.8

**Pinellas County Resource Recovery Facility
Pinellas County, Florida**

1-min report for the period from 1/1/2009 12:00:00 AM to 1/10/2009 11:59:59 PM

Base Interval: 1-min

Day	Time	B2 Out Meas NOx ppm	B2 Out Meas SO2 ppm	B2 Out O2 Corr NOx ppm	B2 Out O2 Corr SO2 ppm	B2 Out O2 %	B2 Steam Rate Kpph
	00:44	104.1	2.9	164.8	4.5	12.11	173.6
	00:45	104.2	2.7	164.5	4.2	12.09	172.6
	00:46	95.3	2.4	160.9	4.0	12.66	169.1
	00:47	88.1	2.5	156.1	4.4	13.06	167.2
	00:48	90.6	2.7	155.8	4.7	12.81	166.6
	00:49	99.2	2.7	168.7	4.5	12.73	172.0
	00:50	109.1	2.7	170.9	4.3	12.02	176.9
	00:51	110.6	2.3	166.0	3.5	11.64	174.6
	00:52	100.0	2.2	166.2	3.7	12.54	171.5
	00:53	95.0	2.6	161.4	4.5	12.72	170.4
	00:54	101.4	2.8	167.6	4.7	12.49	171.7
	00:55	107.8	3.0	172.5	4.7	12.21	175.1
	00:56	109.4	2.9	167.5	4.4	11.82	176.7
	00:57	104.6	2.6	163.9	4.1	12.03	177.4
	00:58	100.8	2.5	162.4	4.0	12.27	176.3
	00:59	95.0	2.7	159.4	4.5	12.62	174.9
	01:00	94.9	3.1	158.4	5.1	12.57	174.4
	01:01	97.2	3.0	156.9	4.8	12.29	171.7
	01:02	90.2	2.9	158.9	5.0	13.01	170.8
	01:03	91.0	3.1	149.9	5.1	12.47	173.4
	01:04	97.7	3.0	154.7	4.7	12.13	174.0
	01:05	92.0	2.7	153.0	4.5	12.54	168.5
	01:06	79.4	2.6	146.4	4.8	13.36	164.7
	01:07	77.7	2.8	142.1	5.1	13.30	163.5
	01:08	85.9	2.9	148.1	5.0	12.84	165.0
	01:09	89.0	2.7	148.1	4.5	12.54	167.1
	01:10	91.9	2.7	154.4	4.5	12.63	170.4
	01:11	99.0	2.8	158.3	4.5	12.21	174.6
	01:12	103.2	2.7	158.2	4.1	11.83	174.7
	01:13	92.1	2.1	152.3	3.5	12.50	170.8
	01:14	81.1	2.2	148.5	4.1	13.31	167.3
	01:15	86.9	2.8	153.7	5.0	13.04	167.0
	01:16	97.9	2.9	161.7	4.8	12.49	169.7
	01:17	104.1	2.5	167.9	4.1	12.28	173.4
	01:18	108.6	2.4	169.3	3.7	11.98	175.2
	01:19	101.7	2.1	164.9	3.4	12.33	169.6
	01:20	88.8	2.1	162.0	3.9	13.29	165.8
	01:21	86.0	2.4	158.5	4.4	13.36	163.5
	01:22	91.5	2.7	163.4	4.8	13.12	162.1
	01:23	95.6	2.7	166.3	4.7	12.91	163.2
	01:24	96.4	2.4	165.8	4.2	12.82	163.0
	01:25	92.2	2.2	162.3	3.8	13.00	161.6
	01:26	87.8	2.2	161.7	4.0	13.35	159.7
	01:27	87.1	2.4	160.8	4.4	13.37	161.0

July 2008 Hourly CEMS Data Comparison

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS		
		SO2 I RPT 1 (PPMDC)		B1 In Meas SO2 ppm		SO2 O RPT 1 (PPMDC)		CO RPT 1 (PPMDC)		B1 In Meas CO ppm
7/20/2008	12:00:00 AM	125				8.4		226.3		
7/20/2008	1:00:00 AM	93.1				3.8		19.3		
7/20/2008	2:00:00 AM	72.3				0		26.3		
7/20/2008	3:00:00 AM	72.8				0		37.3		
7/20/2008	4:00:00 AM	74.6				0		143.4		
7/20/2008	5:00:00 AM	70.5				0		51.7		
7/20/2008	6:00:00 AM	65.3				0		128.9		
7/20/2008	7:00:00 AM	54.3				0		40.1		
7/20/2008	8:00:00 AM	50				0		25.3		
7/20/2008	9:00:00 AM	38.8				0		76.9		
7/20/2008	10:00:00 AM	13.3				0		1294.6		
7/20/2008	11:00:00 AM	32.4F				0.0F		5870.1F		
7/20/2008	12:00:00 PM	40.1F				0.2F		6259.6F		
7/20/2008	1:00:00 PM	38.0F				2.8F		6247.9F		
7/20/2008	2:00:00 PM	45.7F				3.4F		5834.5F		
7/20/2008	3:00:00 PM	51.6F				6.7F		5981.0F		
7/20/2008	4:00:00 PM	28.4F				0.0F		5966.5F		
7/20/2008	5:00:00 PM	50.3F				2.1F		3762.3F		
7/20/2008	6:00:00 PM	54.5F				3.2F		2906.6F		
7/20/2008	7:00:00 PM	58.4F				4.6F		1813.7F		
7/20/2008	8:00:00 PM	56.1F				5.1F		1275.5F		
7/20/2008	9:00:00 PM	55.2F				5.9F		946.7F		
7/20/2008	10:00:00 PM	54.4F				3.5F		1640.7F		
7/20/2008	11:00:00 PM	58.4F				1.7F		2451.3F		
7/21/2008	12:00:00 AM	53.3F				0.2F		2496.4F		
7/21/2008	1:00:00 AM	60.5F				18.6F		717.1F		
7/21/2008	2:00:00 AM	59.3F				21.5F		450.4F		

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS B1 In Meas SO2 ppm	Old CEMS		New CEMS	Old CEMS		New CEMS B1 In Meas CO ppm
		SO2 I	RPT 1 (PPMDC)		SO2 O	RPT 1 (PPMDC)		CO RPT 1 (PPMDC)		
7/21/2008	3:00:00 AM		29.3F			2.8F		3305.3F		
7/21/2008	4:00:00 AM		61.3F			5.0F		1829.5F		
7/21/2008	5:00:00 AM		0.0F			0.0F		2188.1F		
7/21/2008	6:00:00 AM		0.4F			0.0F		1603.9F		
7/21/2008	7:00:00 AM		0.3F			7.7F		1476.8F		
7/21/2008	8:00:00 AM		17.8<			6.3<		2161.8<		
7/21/2008	9:00:00 AM		54.6			26.3		267.8		
7/21/2008	10:00:00 AM		34.8			31.3		310.6		
7/21/2008	11:00:00 AM		14.4			0		320.2		
7/21/2008	12:00:00 PM		25.5			0		128		
7/21/2008	1:00:00 PM		32.9			0		32.5		
7/21/2008	2:00:00 PM		46.1			0		110.7		
7/21/2008	3:00:00 PM		26.7			0		59.3		
7/21/2008	4:00:00 PM		26.6			0		49.8		
7/21/2008	5:00:00 PM		29			0		87.5		
7/21/2008	6:00:00 PM		24.1			0		74.6		
7/21/2008	7:00:00 PM		33.5			1.8		78		
7/21/2008	8:00:00 PM		33.6			5.7		65.4		
7/21/2008	9:00:00 PM		40.2			2.9		56.4		
7/21/2008	10:00:00 PM		25.9			0		62.3		
7/21/2008	11:00:00 PM		27.8			0		32.9		
7/22/2008	12:00:00 AM		24.1			0		50.6		
7/22/2008	1:00:00 AM		27.8			0		53.3		
7/22/2008	2:00:00 AM		33.5			12.4		66.7		
7/22/2008	3:00:00 AM		35.8			29.4		49.4		
7/22/2008	4:00:00 AM		39.5			41.6		90.2		
7/22/2008	5:00:00 AM		41			42.6		435.9		

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I RPT 1 (PPMDC)	B1 In Meas SO2 ppm	SO2 O RPT 1 (PPMDC)		CO RPT 1 (PPMDC)	B1 In Meas CO ppm		
7/22/2008	6:00:00 AM	28.8		27.9		373.6			
7/22/2008	7:00:00 AM	45.8		0		324.2			
7/22/2008	8:00:00 AM	53.8		20.5		110.1			
7/22/2008	9:00:00 AM	46.1		7		49.6			
7/22/2008	10:00:00 AM	50.6		0		53.3			
7/22/2008	11:00:00 AM	56.9		11.4		47.3			
7/22/2008	12:00:00 PM	38.8		0		60.4			
7/22/2008	1:00:00 PM	39.8		0		53.5			
7/22/2008	2:00:00 PM	31.9		0		47.5			
7/22/2008	3:00:00 PM	40.1		0		25.5			
7/22/2008	4:00:00 PM	48.7		0		19.8			
7/22/2008	5:00:00 PM	60.2		0		30.2			
7/22/2008	6:00:00 PM	37.6		0		30.7			
7/22/2008	7:00:00 PM	40.8		0		31.5			
7/22/2008	8:00:00 PM	32.5		0		27.8			
7/22/2008	9:00:00 PM	46.9		0		27.8			
7/22/2008	10:00:00 PM	46.6		0		25.3			
7/22/2008	11:00:00 PM	58.9		0		19.6			
7/23/2008	12:00:00 AM	51.6	38.86	0		24.8	17.89		RATA TESTING
7/23/2008	1:00:00 AM	41.6	26.22	0		29.1	22.90		
7/23/2008	2:00:00 AM	80.1	36.04	0		17.1	19.55		
7/23/2008	3:00:00 AM	101.6	45.83	0		18.3	17.12		
7/23/2008	4:00:00 AM	61	56.18	0		31.4	15.40		
7/23/2008	5:00:00 AM	52.4	34.47	0		12.6	19.63		
7/23/2008	6:00:00 AM	63.7	36.84	0		15.8	18.32		
7/23/2008	7:00:00 AM	46.6	47.11	0		24.2	22.33		
7/23/2008	8:00:00 AM	65.4	29.07	0		48.8	20.37		

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I (PPMDC)	RPT 1	B1 In Meas SO2 ppm	SO2 O (PPMDC)	RPT 1	CO RPT 1 (PPMDC)	B1 In Meas CO ppm	
7/23/2008	9:00:00 AM	73.1		48.33	0		56.9	39.67	
7/23/2008	10:00:00 AM	69.7		50.40	0		29.6	26.76	
7/23/2008	11:00:00 AM	79.6		54.89	0		35.4	24.62	
7/23/2008	12:00:00 PM	198.7		75.60	0		39	27.48	
7/23/2008	1:00:00 PM	133.3		157.82	0		93.7	26.72	
7/23/2008	2:00:00 PM	93.3		83.42	0		97.2	62.28	
7/23/2008	3:00:00 PM	42.3		54.86	0		25	37.13	
7/23/2008	4:00:00 PM	50.4		33.89	0		49.2	16.58	
7/23/2008	5:00:00 PM	60.7		53.89	10.2		73.7	54.98	
7/23/2008	6:00:00 PM	28.2		34.08	0		30.2	26.22	
7/23/2008	7:00:00 PM	67.4		32.79	M 15.4		49.6	28.62	
7/23/2008	8:00:00 PM	98		64.04	26.1		32.6	28.93	
7/23/2008	9:00:00 PM	65.2		60.19	17.9		31.2	24.28	
7/23/2008	10:00:00 PM	109.9		72.60	32.9		25.3	18.94	
7/23/2008	11:00:00 PM	144.8		125.66	25.2		39.5	52.39	
7/24/2008	12:00:00 AM	93		80.91	22.1		62.9	14.40	
7/24/2008	1:00:00 AM	82.9		75.01	41.8		16.7	52.48	
7/24/2008	2:00:00 AM	82.9		50.70	60.3		16.9	14.88	
7/24/2008	3:00:00 AM	86.5		54.54	64.5		18.7	15.73	
7/24/2008	4:00:00 AM	96.5		57.91	82.6		18.4	13.76	
7/24/2008	5:00:00 AM	77.9		59.97	69.5		12.4	13.53	
7/24/2008	6:00:00 AM	77.9		49.09	69.5		12.4	13.24	
7/24/2008	7:00:00 AM	72.4			86.3		12.1		
7/24/2008	8:00:00 AM	9.3F		8.47	D 0.0F		2662.8F	558.62	
7/24/2008	9:00:00 AM	0.0F		0.00	0.0F		3084.8F	0.00	
7/24/2008	10:00:00 AM	6.5F		34.12	I 6.4F		2959.8F	869.43	
7/24/2008	11:00:00 AM	44.2F		35.44	40.9F		2450.5F	745.67	

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS		
		SO2 I (PPMDC)	RPT 1	B1 In Meas SO2 ppm		SO2 O (PPMDC)	RPT 1	CO RPT 1 (PPMDC)	B1 In Meas CO ppm	
7/24/2008	12:00:00 PM	66.3F		28.05	C	42.0F		3069.4F	853.59	C
7/24/2008	1:00:00 PM	51.1F		30.47		47.4F		2809.0F	732.82	
7/24/2008	2:00:00 PM	48.6F		10.91		6.5F		5202.7F	1006.00	
7/24/2008	3:00:00 PM	60.2F		2.34		22.4F		4516.7F	1083.64	
7/24/2008	4:00:00 PM	25.1F		12.25		7.9F		5655.7F	976.52	
7/24/2008	5:00:00 PM	22.8F		0.00		4.1F		5390.1F	1128.01	
7/24/2008	6:00:00 PM	53.6F		2.73		16.5F		4875.8F	1051.95	
7/24/2008	7:00:00 PM	64.2F		1.15		28.1F		3972.4F	1267.30	
7/24/2008	8:00:00 PM	55.0F		6.17		24.4F		4445.3F	1116.35	
7/24/2008	9:00:00 PM	40.2F		0.11		9.6F		5297.4F	1079.66	
7/24/2008	10:00:00 PM	41.2F		0.00		3.5F		5534.0F	1125.97	
7/24/2008	11:00:00 PM	73.6F		0.00	M	11.8F		4850.4F	884.95	M
7/25/2008	12:00:00 AM	63.0F		9.18		30.5F		3583.1F	935.20	
7/25/2008	1:00:00 AM	63.4F		27.16		57.3F		1836.3F	737.62	
7/25/2008	2:00:00 AM	82.7		43.71		35.9		219.8	369.97	
7/25/2008	3:00:00 AM	133		100.70		16.9		41.6	46.78	
7/25/2008	4:00:00 AM	104.2		103.18		0		46.5	33.47	
7/25/2008	5:00:00 AM	108.9		107.00		0		47	41.10	
7/25/2008	6:00:00 AM	110.6		96.23		0		49.9	54.96	
7/25/2008	7:00:00 AM	139.6		126.54	C	24		45	47.09	C
7/25/2008	8:00:00 AM	110.1		121.37		34.5		64.5	56.89	
7/25/2008	9:00:00 AM	134.9		114.20		0		71.1	75.02	
7/25/2008	10:00:00 AM	173.9		153.02		0		33.5	55.23	
7/25/2008	11:00:00 AM	134.9		179.56		40		59.8	43.11	
7/25/2008	12:00:00 PM	131.9		145.64		55.3		65.3	79.25	
7/25/2008	1:00:00 PM	84		123.76		57.2		106.7	52.43	
7/25/2008	2:00:00 PM	53.7F		77.06		0.0F		1542.2F	251.68	

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS	Old CEMS		New CEMS	
		SO2 I	RPT		SO2 O	RPT		
		(PPMDC)	1	B1 In Meas	1	(PPMDC)	B1 In Meas	
				SO2			CO	
				ppm			ppm	
7/25/2008	3:00:00 PM	49.4F		42.88		0.0F	3031.2F	669.12
7/25/2008	4:00:00 PM	47.3F		24.89		0.0F	3699.2F	751.59
7/25/2008	5:00:00 PM	0.0F		7.41		0.0F	4752.7F	684.46
7/25/2008	6:00:00 PM	6.1F		3.54		0.0F	2930.7F	343.70
7/25/2008	7:00:00 PM	11.6F		12.44		0.0F	1402.9F	118.54
7/25/2008	8:00:00 PM	13.4F		12.93		0.0F	792.1F	65.87
7/25/2008	9:00:00 PM	17.1F		14.46		0.0F	387.1F	32.64
7/25/2008	10:00:00 PM	17.5F		14.70		0.0F	257.2F	20.62
7/25/2008	11:00:00 PM	12.2F		14.60		0.0F	339.6F	19.48
7/26/2008	12:00:00 AM	13.9F		14.64		0.0F	256.6F	20.02
7/26/2008	1:00:00 AM	14.8F		15.10		0.0F	99.0F	12.44
7/26/2008	2:00:00 AM	9.9F		15.30		0.0F	184.1F	7.86
7/26/2008	3:00:00 AM	12.9F		14.74		0.0F	68.9F	12.58
7/26/2008	4:00:00 AM	97.3F		15.38	15.4F		270.6F	4.80
7/26/2008	5:00:00 AM	38.8F		15.79	0.2F		21.4F	1.05
7/26/2008	6:00:00 AM	38.6F		15.57	68.3F		21.0F	0.00
7/26/2008	7:00:00 AM	40.6F		15.40	7.4F		26.7F	0.06
7/26/2008	8:00:00 AM	41.7F		15.27	227.9F		21.7F	0.01
7/26/2008	9:00:00 AM	39.9F		15.51	77.8F		21.6F	0.00
7/26/2008	10:00:00 AM	42.2F		15.35	0.0F		21.6F	0.01
7/26/2008	11:00:00 AM	42.8F		14.97	0.0F		21.2F	0.00
7/26/2008	12:00:00 PM	47.0F		14.89	0.0F		20.9F	0.03
7/26/2008	1:00:00 PM	43.0F		14.34	0.0F		16.9F	0.03
7/26/2008	2:00:00 PM	43.2F		15.09	0.0F		17.3F	0.00
7/26/2008	3:00:00 PM	43.6F		15.68	69.6F		18.7F	0.00
7/26/2008	4:00:00 PM	44.8F		15.09	0.0F		13.8F	0.00
7/26/2008	5:00:00 PM	42.5F		15.23	0.0F		16.1F	0.00

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I RPT 1 (PPMDC)		B1 In Meas SO2 ppm		SO2 O RPT 1 (PPMDC)		CO RPT 1 (PPMDC)	B1 In Meas CO ppm
7/26/2008	6:00:00 PM	42.9F		15.64		0.0F		13.1F	0.00
7/26/2008	7:00:00 PM	42.0F		15.22		20.0F		13.9F	0.00
7/26/2008	8:00:00 PM	40.2F		15.02		0.0F		15.9F	0.00
7/26/2008	9:00:00 PM	37.7F		15.05		69.8F		16.0F	0.00
7/26/2008	10:00:00 PM	14.6F		15.01		0.0F		49.8F	0.00
7/26/2008	11:00:00 PM	0.0F		23.24		0.0F		83.3F	12.11
7/27/2008	12:00:00 AM	0.0F		27.35		0.0F		71.7F	15.62
7/27/2008	1:00:00 AM	0.0F		28.90		0.0F		80.9F	19.60
7/27/2008	2:00:00 AM	0.0F		29.43		6.6F		101.0F	22.86
7/27/2008	3:00:00 AM	3.9F		31.69		9.9F		615.1F	70.54
7/27/2008	4:00:00 AM	102		64.45		0		42.9	180.37
7/27/2008	5:00:00 AM	97.8		60.22		29.3		21.8	31.13
7/27/2008	6:00:00 AM	104.6		63.65		60.4		27.2	33.13
7/27/2008	7:00:00 AM	109.5		65.25	C	86.2		22.6	26.39 C
7/27/2008	8:00:00 AM	111.3		67.40		106.2		19	24.71
7/27/2008	9:00:00 AM	118.5		89.17		83.2		99.4	154.48
7/27/2008	10:00:00 AM	117.2		79.09		0		24.6	27.34
7/27/2008	11:00:00 AM	148.8		103.19		14.5		28.3	33.69
7/27/2008	12:00:00 PM	124.1		99.88		1.8		15.4	26.62
7/27/2008	1:00:00 PM	87.7		87.20		64.8		7.9	16.40
7/27/2008	2:00:00 PM	74.1		51.49		36.7		49	17.02
7/27/2008	3:00:00 PM	63		41.81		48		22.4	69.78
7/27/2008	4:00:00 PM	75		37.57		6.6		50.5	30.49
7/27/2008	5:00:00 PM	74.7		42.82		2.3		10.6	32.11
7/27/2008	6:00:00 PM	68.5		33.20		4.7		15.2	13.90
7/27/2008	7:00:00 PM	110.5		60.34		0		13.6	19.90
7/27/2008	8:00:00 PM	113.6		64.49		80.9		15	16.24

Unit 1 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I RPT 1 (PPMDC)	B1 In Meas SO2 ppm	SO2 O RPT 1 (PPMDC)		CO RPT 1 (PPMDC)	B1 In Meas CO ppm		
7/27/2008	9:00:00 PM	134.6	86.79	90.9		15.6	16.89		
7/27/2008	10:00:00 PM	125.8	102.46	4.7		32.2	17.17		
7/27/2008	11:00:00 PM	123	75.44	4.5		16.9	15.70		

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/20/2008	12:00:00 AM		209	28.50<		283.1	
7/20/2008	1:00:00 AM		51.6	1.37<		285.2	
7/20/2008	2:00:00 AM	39.6F		2.81F		770.2F	
7/20/2008	3:00:00 AM	35.4F		5.87F		952.0F	
7/20/2008	4:00:00 AM	78.4F		18.14F		2192.9F	
7/20/2008	5:00:00 AM	44.2F		0.00F		2593.9F	
7/20/2008	6:00:00 AM	45.7F		0.00F		2337.7F	
7/20/2008	7:00:00 AM	96.4F		30.31F		3466.9F	
7/20/2008	8:00:00 AM	75.3F		6.85F		3133.3F	
7/20/2008	9:00:00 AM		176.7		57.79		317.9
7/20/2008	10:00:00 AM		124.3		45.48		51.4
7/20/2008	11:00:00 AM		123.2		10.5		210.7
7/20/2008	12:00:00 PM		123.7		5.88		55.5
7/20/2008	1:00:00 PM		120.3		4.54		380.5
7/20/2008	2:00:00 PM		95.4		12.8		70.8
7/20/2008	3:00:00 PM		69.7		11.19		67.2
7/20/2008	4:00:00 PM		67.9		8.33		59.2
7/20/2008	5:00:00 PM		78.4		6.99		70.9
7/20/2008	6:00:00 PM		109.9		10.56		45.8
7/20/2008	7:00:00 PM		123.5		16.85		29.3
7/20/2008	8:00:00 PM		105.1		17.35		79.1
7/20/2008	9:00:00 PM		84.7		7.88		72.5
7/20/2008	10:00:00 PM		88.2		2.85		278.8
7/20/2008	11:00:00 PM		83.8		11.67		62.1
7/21/2008	12:00:00 AM		72.9		3.46		37
7/21/2008	1:00:00 AM		72.2		4.41		39.2
7/21/2008	2:00:00 AM		58.5		0		228.8

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/21/2008	3:00:00 AM	59.8		0		107.4	
7/21/2008	4:00:00 AM	66.5		6.91		200.2	
7/21/2008	5:00:00 AM	58.8		0		63.3	
7/21/2008	6:00:00 AM	91.5		2.88		55.4	
7/21/2008	7:00:00 AM	81.6		0		154.9	
7/21/2008	8:00:00 AM	76.9		1.57		38.7	
7/21/2008	9:00:00 AM	25.5		0		80	
7/21/2008	10:00:00 AM	31.3		0		37.5	
7/21/2008	11:00:00 AM	31.6		0		78.6	
7/21/2008	12:00:00 PM	24.5		0		49.9	
7/21/2008	1:00:00 PM	18.1		0		36.5	
7/21/2008	2:00:00 PM	9.9		0		53.8	
7/21/2008	3:00:00 PM	28.6		0		33.6	
7/21/2008	4:00:00 PM	25.2		0		27.7	
7/21/2008	5:00:00 PM	39.4		0		29.3	
7/21/2008	6:00:00 PM	29.8		0		40.8	
7/21/2008	7:00:00 PM	37.3		0		41.8	
7/21/2008	8:00:00 PM	35.1		0		35	
7/21/2008	9:00:00 PM	29.1		0		68	
7/21/2008	10:00:00 PM	37.3		1.91		131.3	
7/21/2008	11:00:00 PM	42.3		5.93		92.8	
7/22/2008	12:00:00 AM	133.4		26.02		48.1	
7/22/2008	1:00:00 AM	26.4		0		34.3	
7/22/2008	2:00:00 AM	31.3		3.75		59.6	
7/22/2008	3:00:00 AM	30.7		4.5		61.4	
7/22/2008	4:00:00 AM	33.7		4.99		28.8	
7/22/2008	5:00:00 AM	38		12.89		77	

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS	
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm	
7/22/2008	6:00:00 AM	36.4		6.45		216.3		
7/22/2008	7:00:00 AM	30.5		0		56.9		
7/22/2008	8:00:00 AM	108.3		53.82		74.2		
7/22/2008	9:00:00 AM	38.6		29.55		51.2		
7/22/2008	10:00:00 AM	20.5		2.64		46.6		
7/22/2008	11:00:00 AM	33.3		4.68		60.6		
7/22/2008	12:00:00 PM	38.1		18.77		55.8		
7/22/2008	1:00:00 PM	45.4		42.67		33.5		
7/22/2008	2:00:00 PM	12.3		0		32.5		
7/22/2008	3:00:00 PM	22.7		3.38		34.2		
7/22/2008	4:00:00 PM	20.3		0		32.1		
7/22/2008	5:00:00 PM	30.2		0		29.6		
7/22/2008	6:00:00 PM	52.1		4.47		52.8		
7/22/2008	7:00:00 PM	33.7		2.93		37		
7/22/2008	8:00:00 PM	31.9		9.78		24.7		
7/22/2008	9:00:00 PM	51.8		10.83		29.2		
7/22/2008	10:00:00 PM	48.3		12.34		52.1		
7/22/2008	11:00:00 PM	55.9		8.46		36.5		
7/23/2008	12:00:00 AM	59.5	75.60	9.24		19.8	9.33	RATA TESTING
7/23/2008	1:00:00 AM	53.9	54.85	10.78		62.6	18.12	
7/23/2008	2:00:00 AM	64.5	54.61	14.61		23.6	28.34	
7/23/2008	3:00:00 AM	92.3	72.55	14.3		34.4	13.40	
7/23/2008	4:00:00 AM	0.0<	97.44	18.48		0.0<	17.46	
7/23/2008	5:00:00 AM	0.0<	98.66	22.37		0.0<	19.27	
7/23/2008	6:00:00 AM	0.0<	88.03	17.78		0.0<	11.92	
7/23/2008	7:00:00 AM	22.3	67.57	13.27		27.3	13.44	
7/23/2008	8:00:00 AM	49.7	61.21 C	14.22		22	11.53	

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/23/2008	9:00:00 AM	50.7	54.07	12.5		25.5	15.21
7/23/2008	10:00:00 AM	58.3	61.36	14.76		25.6	18.11
7/23/2008	11:00:00 AM	76.6	64.55	17.59		30.8	17.72
7/23/2008	12:00:00 PM	95.8	81.35	15.25		34.5	24.02
7/23/2008	1:00:00 PM	102.9	94.01	5.66		53.5	21.47
7/23/2008	2:00:00 PM	60.1	84.40	0		29.1	36.16
7/23/2008	3:00:00 PM	107.6	70.45	13.47		20.4	12.40
7/23/2008	4:00:00 PM	86.5	95.28	14.14		26.3	19.23
7/23/2008	5:00:00 PM	120.7	84.16	20.32		24.7	12.79
7/23/2008	6:00:00 PM	109.6	125.96	21.01		23.4	17.02
7/23/2008	7:00:00 PM	146.4	103.78	27.92		17.7	13.09
7/23/2008	8:00:00 PM	151	161.80	35.96		36	13.33
7/23/2008	9:00:00 PM	182.2	121.63	55.17		117.6	49.22
7/23/2008	10:00:00 PM	211.1	158.79	94.27		258.3	81.41
7/23/2008	11:00:00 PM	72.6F	39.95 D	19.69F		2693.9F	493.52 D
7/24/2008	12:00:00 AM	83.2F	37.49 D	102.84F		2472.0F	458.73 D
7/24/2008	1:00:00 AM	125.8F	43.52 D	145.84F		1518.9F	422.02 D
7/24/2008	2:00:00 AM	95.4F	70.31 D	155.87F		1403.3F	298.37 D
7/24/2008	3:00:00 AM	115.7F	37.12 D	141.09F		2667.9F	320.29 D
7/24/2008	4:00:00 AM	178.8F	37.55 D	181.84F		3305.0F	331.17 D
7/24/2008	5:00:00 AM	266.1F	38.68 D	374.65F		7591.9F	378.14 D
7/24/2008	6:00:00 AM	266.1F	28.92 D	374.65F		7591.9F	317.92 D
7/24/2008	7:00:00 AM	154.9F		263.36F		7238.8F	
7/24/2008	8:00:00 AM	0.0F	3.50 D	0.00F		4963.7F	132.24 D
7/24/2008	9:00:00 AM	551.7F	0.00	0.00F		21139.4F	0.00
7/24/2008	10:00:00 AM	881.5F	17.83 I	114.59F		83427.6F	191.30 I
7/24/2008	11:00:00 AM	0.0F	17.68	30.14F		4113.6F	174.92

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/24/2008	12:00:00 PM	0.0F	17.74	32.68F		0.0F	123.37
7/24/2008	1:00:00 PM	0.0F	16.79	38.19F		0.0F	92.46
7/24/2008	2:00:00 PM	0.0F	16.65	38.47F		0.0F	86.04
7/24/2008	3:00:00 PM	0.0F	16.76	26.81F		2457.7F	80.82
7/24/2008	4:00:00 PM	0.0F	16.46	29.72F		0.0F	81.97
7/24/2008	5:00:00 PM	0.0F	16.29	28.54F		0.0F	49.71
7/24/2008	6:00:00 PM	0.0F	16.17	29.41F		0.0F	46.30
7/24/2008	7:00:00 PM	0.0F	15.79	37.00F		0.0F	39.42
7/24/2008	8:00:00 PM	0.0F	15.46	40.70F		0.0F	33.46
7/24/2008	9:00:00 PM	0.0F	16.11	50.79F		0.0F	30.63
7/24/2008	10:00:00 PM	0.0F	16.53	42.76F		0.0F	28.45
7/24/2008	11:00:00 PM	0.0F	16.62	49.43F		0.0F	27.51
7/25/2008	12:00:00 AM	0.0F	16.59	54.99F		0.0F	22.60
7/25/2008	1:00:00 AM	0.0F	16.07	76.64F		0.0F	22.24
7/25/2008	2:00:00 AM	0.0F	16.08	89.44F		0.0F	22.56
7/25/2008	3:00:00 AM	0.0F	16.48	83.00F		0.0F	32.19
7/25/2008	4:00:00 AM	0.0F	16.89	63.12F		1.0F	19.04
7/25/2008	5:00:00 AM	0.0F	15.98	51.35F		0.0F	11.27
7/25/2008	6:00:00 AM	0.0F	16.30	18.06F		0.0F	8.76
7/25/2008	7:00:00 AM	0.0F	16.67	22.70F		0.0F	8.31
7/25/2008	8:00:00 AM	0.0F	17.16	8.06F		0.0F	7.50
7/25/2008	9:00:00 AM	0.0F	16.88	10.88F		1.8F	6.06
7/25/2008	10:00:00 AM	0.0F	17.28	12.91F		875.7F	5.25
7/25/2008	11:00:00 AM	0.0F	17.20	13.57F		0.0F	4.48
7/25/2008	12:00:00 PM	0.0F	17.14	5.29F		0.0F	5.40
7/25/2008	1:00:00 PM	0.0F	16.46	3.74F		0.0F	17.29
7/25/2008	2:00:00 PM	0.0F	16.36	0.00F		145.4F	3.55

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/25/2008	3:00:00 PM	12.4F	23.77	0.00F		177.6F	10.50
7/25/2008	4:00:00 PM	6.5F	26.04	0.00F		161.8F	12.02
7/25/2008	5:00:00 PM	0.0F	27.40	0.00F		142.2F	13.12
7/25/2008	6:00:00 PM	0.0F	29.03	0.00F		125.5F	15.82
7/25/2008	7:00:00 PM	0.0F	24.23	16.94F		1.6F	5.45
7/25/2008	8:00:00 PM	0.0F	21.52	0.00F		49.5F	4.48
7/25/2008	9:00:00 PM	0.0F	34.19	0.00F		60.0F	13.81
7/25/2008	10:00:00 PM	0.0F	28.83	105.84F		18134.3F	34.27
7/25/2008	11:00:00 PM	20.4F	25.00	0.00F		2348.8F	250.26
7/26/2008	12:00:00 AM	58.5F	36.24	24.98F		1138.8F	378.26
7/26/2008	1:00:00 AM		60.59	41.72		218.2	276.02
7/26/2008	2:00:00 AM		59.48	50.37		349.6	3937.44
7/26/2008	3:00:00 AM	95.6F	129.79	44.96F		877.9F	5044.43
7/26/2008	4:00:00 AM	82.8F	73.00	60.81F		2570.4F	465.09
7/26/2008	5:00:00 AM	61.0F	38.83	96.49F		10126.1F	366.06
7/26/2008	6:00:00 AM	0.0F	30.23	0.00F		19015.8F	249.81
7/26/2008	7:00:00 AM	0.0F	31.17	150.74F		35123.0F	359.06
7/26/2008	8:00:00 AM	201.8F	28.41 C	57.50F		64983.0F	291.02 C
7/26/2008	9:00:00 AM	78.5F	25.93	11.79F		3784.7F	299.94
7/26/2008	10:00:00 AM	134.3F	20.67	9.24F		0.0F	110.63
7/26/2008	11:00:00 AM	153.1F	18.93	7.13F		0.0F	58.36
7/26/2008	12:00:00 PM	108.3F	18.39	2.95F		782.9F	34.83
7/26/2008	1:00:00 PM	102.6F	17.49	2.35F		786.4F	23.24
7/26/2008	2:00:00 PM	167.9F	18.20	6.22F		0.0F	16.08
7/26/2008	3:00:00 PM	192.7F	18.76	9.71F		0.0F	14.71
7/26/2008	4:00:00 PM	120.0F	18.88	5.99F		0.0F	11.12
7/26/2008	5:00:00 PM	140.6F	18.55	5.74F		0.0F	5.60

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/26/2008	6:00:00 PM	123.5F	18.49	6.11F		0.0F	2.73
7/26/2008	7:00:00 PM	128.9F	17.81	13.28F		0.0F	1.95
7/26/2008	8:00:00 PM	183.9F	17.68	18.52F		0.0F	1.84
7/26/2008	9:00:00 PM	179.7F	18.02	15.10F		0.0F	1.42
7/26/2008	10:00:00 PM	218.9F	17.95	21.42F		0.0F	1.05
7/26/2008	11:00:00 PM	198.3F	18.17	17.59F		0.0F	0.66
7/27/2008	12:00:00 AM	157.1F	18.11	13.15F		0.0F	0.29
7/27/2008	1:00:00 AM	210.7F	17.74	26.02F		0.0F	0.24
7/27/2008	2:00:00 AM	203.4F	17.45	24.31F		0.0F	0.10
7/27/2008	3:00:00 AM	151.8F	17.77	14.98F		0.0F	0.07
7/27/2008	4:00:00 AM	0.0F	18.21	23.58F		855.1F	0.12
7/27/2008	5:00:00 AM	0.0F	17.99	12.66F		0.0F	0.02
7/27/2008	6:00:00 AM	0.0F	17.88	11.66F		0.0F	0.02
7/27/2008	7:00:00 AM	0.0F	17.65	9.16F		0.0F	0.00
7/27/2008	8:00:00 AM	0.0F	18.23 C	10.87F		0.0F	0.00 C
7/27/2008	9:00:00 AM	0.0F	18.33	8.07F		0.0F	0.00
7/27/2008	10:00:00 AM	0.0F	18.22	1.94F		0.0F	0.00
7/27/2008	11:00:00 AM	0.0F	17.96	0.00F		0.0F	0.00
7/27/2008	12:00:00 PM	0.0F	17.95	1.40F		0.0F	0.00
7/27/2008	1:00:00 PM	0.0F	17.75	2.47F		0.0F	0.00
7/27/2008	2:00:00 PM	0.0F	17.62	2.84F		0.0F	0.00
7/27/2008	3:00:00 PM	0.0F	17.86	1.80F		0.0F	0.00
7/27/2008	4:00:00 PM	0.0F	17.88	0.19F		0.0F	0.00
7/27/2008	5:00:00 PM	0.0F	17.80	0.60F		0.0F	0.00
7/27/2008	6:00:00 PM	0.0F	17.31	1.79F		0.0F	0.00
7/27/2008	7:00:00 PM	0.0F	17.57	5.04F		0.0F	0.00
7/27/2008	8:00:00 PM	0.0F	17.51	9.68F		0.0F	0.00

Unit 2 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 2 (PPMDC)	B2 In Meas SO2 ppm	SO2 O RPT 2 (PPMDC)		CO RPT 2 (PPMDC)	B2 In Meas CO ppm
7/27/2008	9:00:00 PM	0.0F	17.54	11.77F		0.0F	0.00
7/27/2008	10:00:00 PM	0.0F	17.42	18.06F		0.0F	0.51
7/27/2008	11:00:00 PM	0.0F	17.94	10.69F		0.0F	0.00
7/28/2008	12:00:00 AM	0.0F	17.81	14.26F		0.0F	0.00
7/28/2008	1:00:00 AM	0.0F	17.64	17.02F		0.0F	0.02
7/28/2008	2:00:00 AM	0.0F	17.83	23.25F		0.0F	0.00
7/28/2008	3:00:00 AM	0.0F	17.44	17.68F		0.0F	0.00
7/28/2008	4:00:00 AM	64.2F	16.73	44.06F		1093.1F	0.00
7/28/2008	5:00:00 AM	0.0F	16.87	10.80F		0.0F	0.00
7/28/2008	6:00:00 AM	0.0F	17.04	9.65F		0.0F	0.00
7/28/2008	7:00:00 AM	0.0F	17.33	5.01F		0.0F	0.00
7/28/2008	8:00:00 AM	0.0F	16.62 C	0.00F		0.0F	0.18 C
7/28/2008	9:00:00 AM	0.0F	15.86	0.00F		0.0F	0.09
7/28/2008	10:00:00 AM	0.0F	15.79	0.00F		0.0F	0.10
7/28/2008	11:00:00 AM	0.0F	16.05	0.00F		0.0F	0.29
7/28/2008	12:00:00 PM	0.0F	16.51	0.00F		0.0F	0.32
7/28/2008	1:00:00 PM	0.0F	16.38	0.00F		8.0F	0.25
7/28/2008	2:00:00 PM	0.0F	16.48	0.00F		0.0F	0.07
7/28/2008	3:00:00 PM	0.0F	16.01	0.00F		0.0F	0.12
7/28/2008	4:00:00 PM	0.0F	15.84	0.00F		0.0F	0.08
7/28/2008	5:00:00 PM	0.0F	16.20	0.00F		0.0F	0.15
7/28/2008	6:00:00 PM	0.0F	16.57	0.00F		0.0F	0.00
7/28/2008	7:00:00 PM	0.0F	17.07	0.00F		0.0F	0.00
7/28/2008	8:00:00 PM	0.0F	17.11	0.00F		0.0F	0.00
7/28/2008	9:00:00 PM	0.0F	17.09	9.56F		0.0F	0.00
7/28/2008	10:00:00 PM	0.0F	17.19	7.94F		0.0F	0.00
7/28/2008	11:00:00 PM	0.0F	17.39	9.84F		0.0F	0.00

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS B3 In Meas SO2 ppm	Old CEMS		New CEMS	Old CEMS		New CEMS B3 In Meas CO ppm
		SO2 I 3 (PPMDC)	RPT		SO2 O 3 (PPMDC)	RPT		CO RPT 3 (PPMDC)		
7/20/2008	12:00:00 AM	106.5			7.55			77.4		
7/20/2008	1:00:00 AM	67.9			0			57.2		
7/20/2008	2:00:00 AM	64.1			0			66.8		
7/20/2008	3:00:00 AM	88.9			0			88.9		
7/20/2008	4:00:00 AM	76.5			0			84.5		
7/20/2008	5:00:00 AM	128.9			20.17			64.4		
7/20/2008	6:00:00 AM	148.8			24.94			118		
7/20/2008	7:00:00 AM	76.2			0			67		
7/20/2008	8:00:00 AM	63.9			0			49.7		
7/20/2008	9:00:00 AM	65.8			0			34.2		
7/20/2008	10:00:00 AM	67.8			0			62.2		
7/20/2008	11:00:00 AM	80			0			51.1		
7/20/2008	12:00:00 PM	98.1			0			41.6		
7/20/2008	1:00:00 PM	107.9			9.3			48.2		
7/20/2008	2:00:00 PM	88.1			18.77			56.8		
7/20/2008	3:00:00 PM	66.2			9.81			46.2		
7/20/2008	4:00:00 PM	52.1			0			52.3		
7/20/2008	5:00:00 PM	56.1			0			61		
7/20/2008	6:00:00 PM	76.7			7.19			40.9		
7/20/2008	7:00:00 PM	73.6			10.03			38.9		
7/20/2008	8:00:00 PM	75.8			12.59			40		
7/20/2008	9:00:00 PM	75.4			0			37.8		
7/20/2008	10:00:00 PM	62.6			0			34.7		
7/20/2008	11:00:00 PM	61.3			0			43.8		
7/21/2008	12:00:00 AM	67.9			0			48		
7/21/2008	1:00:00 AM	60.4			0			36		
7/21/2008	2:00:00 AM	53.6			0			40.3		

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I	RPT	B3 In Meas	SO2	SO2 O	RPT	CO RPT 3	B3 In Meas
		(PPMDC)		ppm		(PPMDC)		(PPMDC)	ppm
7/21/2008	3:00:00 AM		63.4				0		51.9
7/21/2008	4:00:00 AM		66.2				0		88.7
7/21/2008	5:00:00 AM		59.5				0		97.9
7/21/2008	6:00:00 AM		35.3				0		140.6
7/21/2008	7:00:00 AM		76.3				2.9		75.8
7/21/2008	8:00:00 AM		65.9				2.24		39.9
7/21/2008	9:00:00 AM		38				0		49.6
7/21/2008	10:00:00 AM		30.3				0		43.4
7/21/2008	11:00:00 AM		28.2				0		38.7
7/21/2008	12:00:00 PM		7.6				0		191.5
7/21/2008	1:00:00 PM		31.3				0		89.5
7/21/2008	2:00:00 PM		60.6				5		39
7/21/2008	3:00:00 PM		43.2				3.65		34.7
7/21/2008	4:00:00 PM		41.5				0		28.9
7/21/2008	5:00:00 PM		40.2				0		24.2
7/21/2008	6:00:00 PM		40				23.16		25.6
7/21/2008	7:00:00 PM		45.5				29.06		25.1
7/21/2008	8:00:00 PM		35.5				23.33		26.1
7/21/2008	9:00:00 PM		39.6				23.44		21.7
7/21/2008	10:00:00 PM		41.5				34.21		20.5
7/21/2008	11:00:00 PM		40.7				34.36		22.6
7/22/2008	12:00:00 AM		31.9				16.22		27.2
7/22/2008	1:00:00 AM		37				21.8		25.6
7/22/2008	2:00:00 AM		49.5				22.45		27.8
7/22/2008	3:00:00 AM		54				19.47		32.5
7/22/2008	4:00:00 AM		54.9				18.51		24
7/22/2008	5:00:00 AM		67				21.8		70.9

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS B3 In Meas SO2 ppm	Old CEMS		New CEMS	Old CEMS		New CEMS B3 In Meas CO ppm
		SO2 I 3 (PPMDC)	RPT		SO2 O 3 (PPMDC)	RPT		CO RPT 3 (PPMDC)	RPT	
7/22/2008	6:00:00 AM		47.8			22.39			20.1	
7/22/2008	7:00:00 AM		54.3			20.1			37.4	
7/22/2008	8:00:00 AM		77.8			21.92			48.2	
7/22/2008	9:00:00 AM		40.6			25.47			42.9	
7/22/2008	10:00:00 AM		30.2			15.91			40.1	
7/22/2008	11:00:00 AM		30.2			11.23			35.5	
7/22/2008	12:00:00 PM		35.3			22.67			29.1	
7/22/2008	1:00:00 PM		33.2			21.78			33	
7/22/2008	2:00:00 PM		24.5			19.45			45.3	
7/22/2008	3:00:00 PM		25.9			21.82			38.2	
7/22/2008	4:00:00 PM		26.2			15.71			33.6	
7/22/2008	5:00:00 PM		43.8			20.92			31.2	
7/22/2008	6:00:00 PM		46.7			19.18			30.5	
7/22/2008	7:00:00 PM		49.9			26.07			36.1	
7/22/2008	8:00:00 PM		64.5			6.46			23.5	
7/22/2008	9:00:00 PM		71.9			20.15			24.3	
7/22/2008	10:00:00 PM		80.5			34.02			45.4	
7/22/2008	11:00:00 PM		92.9			23.77			30.5	
7/23/2008	12:00:00 AM		77.5	110.49		22.34			28.8	40.59
7/23/2008	1:00:00 AM		57.4	61.94		19.94			24.2	21.18
7/23/2008	2:00:00 AM		71.5	75.75		20.87			30	29.97
7/23/2008	3:00:00 AM		68.4	74.31		17.14			27.8	25.65
7/23/2008	4:00:00 AM		80.8<	91.83		10.88			81.3<	24.17
7/23/2008	5:00:00 AM		58.1<	69.57		16.1			-4.1<	41.88
7/23/2008	6:00:00 AM		53.5<	52.47		15.73			-2.1<	30.13
7/23/2008	7:00:00 AM		46.7	61.57		18.62			37.2	28.36
7/23/2008	8:00:00 AM		64	37.27		21.23			28.6	26.59

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 3 (PPMDC)	B3 In Meas SO2 ppm	SO2 O RPT 3 (PPMDC)		CO RPT 3 (PPMDC)	B3 In Meas CO ppm
7/23/2008	9:00:00 AM	78.7	85.48 C	15.96		39.7	33.04 C
7/23/2008	10:00:00 AM	80.9	81.36	17.61		47.2	36.86
7/23/2008	11:00:00 AM	80.1	114.81	20.65		64	45.27
7/23/2008	12:00:00 PM	102.7	143.83	19.87		140	79.64
7/23/2008	1:00:00 PM	96.7	169.37	9.98		128.6	79.82
7/23/2008	2:00:00 PM	46.3	132.99	0		50.5	79.75
7/23/2008	3:00:00 PM	51.2	65.29	6.84		36.4	30.00
7/23/2008	4:00:00 PM	63.9	59.49	17.76		47.6	24.62
7/23/2008	5:00:00 PM	73.3	106.06	20.12		60.4	45.18
7/23/2008	6:00:00 PM	88.1	208.23	23.42		45	433.76
7/23/2008	7:00:00 PM	114.6	193.93 M	30.27		49.9	60.35 M
7/23/2008	8:00:00 PM	87	152.96	36.44		44.3	42.84
7/23/2008	9:00:00 PM	84.9	115.42 M	30.22		26.8	24.77 M
7/23/2008	10:00:00 PM	100.1	111.68 M	35.9		39.4	21.69 M
7/23/2008	11:00:00 PM	142.2	173.82 M	55.43		45.6	38.10 M
7/24/2008	12:00:00 AM	120.1	179.10	44.73		40.3	52.42
7/24/2008	1:00:00 AM	117.4	151.60	45.5		51.2	35.57
7/24/2008	2:00:00 AM	139.6	165.56	101.3		41.3	51.97
7/24/2008	3:00:00 AM	119.1	137.14	73.54		36	36.29
7/24/2008	4:00:00 AM	139.4	162.20	107.62		65.8	43.12
7/24/2008	5:00:00 AM	114.7	192.88	103.69		46.6	93.24
7/24/2008	6:00:00 AM	114.7	152.34 C	103.69		46.6	42.22 C
7/24/2008	7:00:00 AM	118.2		105.98		49.6	
7/24/2008	8:00:00 AM	0.0F	38.86 D	316.81F		776.4F	283.24 D
7/24/2008	9:00:00 AM	30.5F	0.00	51.40F		4468.9F	0.00
7/24/2008	10:00:00 AM	115.6F	86.59 I	90.20F		3099.9F	625.21 I
7/24/2008	11:00:00 AM	137.0F	28.27	126.23F		5600.1F	620.57

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS	New CEMS	Old CEMS	New CEMS	Old CEMS	New CEMS
		SO2 I RPT 3 (PPMDC)	B3 In Meas SO2 ppm	SO2 O RPT 3 (PPMDC)		CO RPT 3 (PPMDC)	B3 In Meas CO ppm
7/24/2008	12:00:00 PM	98.3F	41.10	128.74F		2543.4F	487.98
7/24/2008	1:00:00 PM	125.6<	113.16	73.90<		819.0<	715.66
7/24/2008	2:00:00 PM	150.6<	219.63	155.76<		437.4<	162.17
7/24/2008	3:00:00 PM	89.8<	224.54	122.76<		89.7<	199.10
7/24/2008	4:00:00 PM	208.8	173.54	154.15		566.5	49.76
7/24/2008	5:00:00 PM	148.3	281.52	122.47		80.1	222.31
7/24/2008	6:00:00 PM	113.4	233.55	7.09		28.8	29.81
7/24/2008	7:00:00 PM	94.4	117.70	0		23.7	23.94
7/24/2008	8:00:00 PM	104.4	96.76	0		53.4	26.12
7/24/2008	9:00:00 PM	112.1	172.21	0		245.4	244.99
7/24/2008	10:00:00 PM	125	137.32	0		20.2	217.35
7/24/2008	11:00:00 PM	157.9	223.70	0		19.1	25.44
7/25/2008	12:00:00 AM	177.3	257.04	0		20.6	29.15
7/25/2008	1:00:00 AM	221.2	314.31	0		20.9	25.42
7/25/2008	2:00:00 AM	193.2	338.42	0		132.6	34.97
7/25/2008	3:00:00 AM	205.5	306.40	0		43.8	91.20
7/25/2008	4:00:00 AM	158.6<	293.83	0		51.2<	53.24
7/25/2008	5:00:00 AM	184.1<	261.23	0		19.9<	23.50
7/25/2008	6:00:00 AM	180.7<	259.74	0		40.9<	24.88
7/25/2008	7:00:00 AM	111.8	269.36 C	0		28.4	27.28 C
7/25/2008	8:00:00 AM	116.7	155.40	0		29.9	17.39
7/25/2008	9:00:00 AM	180.6	226.52 C	0		18	19.69 C
7/25/2008	10:00:00 AM	142	217.32	0		19.8	21.35
7/25/2008	11:00:00 AM	225.8	224.75	0		16.3	20.90
7/25/2008	12:00:00 PM	213.9	355.01	14.6		42.5	42.29
7/25/2008	1:00:00 PM	171.8	285.84	15.35		47.9	55.01
7/25/2008	2:00:00 PM	73.8	126.33	11.61		13.2	11.88

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I 3 (PPMDC)	RPT 3	B3 In Meas SO2 ppm		SO2 O 3 (PPMDC)		CO RPT 3 (PPMDC)	B3 In Meas CO ppm
7/25/2008	3:00:00 PM	84.3		61.05		86.92		16.3	17.53
7/25/2008	4:00:00 PM	101.2		48.23		57.58		140.4	163.47
7/25/2008	5:00:00 PM	109.2		61.23		36.03		77.8	33.11
7/25/2008	6:00:00 PM	149.5		157.79		38.2		246	153.32
7/25/2008	7:00:00 PM	89.6		150.99		19.31		19.3	295.76
7/25/2008	8:00:00 PM	89.1		104.55		2.41		25.3	29.80
7/25/2008	9:00:00 PM	102.5		113.91		17.41		46.8	52.08
7/25/2008	10:00:00 PM	87		83.62		61.19		21.2	22.20
7/25/2008	11:00:00 PM	123.6		69.26		158.85		37.3	28.27
7/26/2008	12:00:00 AM	120.7		122.88		92.89		145	72.76
7/26/2008	1:00:00 AM	58.9		108.83		38.41		49.4	78.02
7/26/2008	2:00:00 AM	72.7		62.25		7.78		64	36.91
7/26/2008	3:00:00 AM	70.1		130.93		0		42	59.68
7/26/2008	4:00:00 AM	120.8		93.30		3.95		64.6	43.12
7/26/2008	5:00:00 AM	111.1		207.23		32.42		53	61.57
7/26/2008	6:00:00 AM	84.9		84.60		11.45		34.8	28.30
7/26/2008	7:00:00 AM	95.2		86.28		41.74		34.2	37.00
7/26/2008	8:00:00 AM	157.2		187.12		50.91		27.1	37.57
7/26/2008	9:00:00 AM	58.7		48.78 C		0		92	41.09 C
7/26/2008	10:00:00 AM	40.1		38.80		0		77.3	74.12
7/26/2008	11:00:00 AM	38		19.32		10.03		24.6	67.51
7/26/2008	12:00:00 PM	39.6		32.75		31.26		22.3	27.16
7/26/2008	1:00:00 PM	32.3		10.52		43.76		18.3	20.91
7/26/2008	2:00:00 PM	37.4		9.85		41.48		18	20.39
7/26/2008	3:00:00 PM	49.1		39.49		0		27.8	27.24
7/26/2008	4:00:00 PM	46.1		15.64		0		28.6	23.29
7/26/2008	5:00:00 PM	35		27.60		0		24.2	35.95

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I 3 (PPMDC)	RPT 3	B3 In Meas SO2 ppm		SO2 O 3 (PPMDC)		CO RPT 3 (PPMDC)	B3 In Meas CO ppm
7/26/2008	6:00:00 PM		56	23.70		68.28		24.6	27.56
7/26/2008	7:00:00 PM		117.8	63.86		152.6		34.8	24.52
7/26/2008	8:00:00 PM		117.5	118.89		69.11		36.3	33.34
7/26/2008	9:00:00 PM		82.8	91.33		100.95		39.5	46.09
7/26/2008	10:00:00 PM		65.6	46.91		56.91		34.2	39.83
7/26/2008	11:00:00 PM		70.7	69.12		36.85		31.2	38.18
7/27/2008	12:00:00 AM		63.8	49.57		42.28		24.6	26.43
7/27/2008	1:00:00 AM		64.5	51.69		12.06		26.1	27.57
7/27/2008	2:00:00 AM		55.9	52.07		3.32		32.7	31.99
7/27/2008	3:00:00 AM		75.8	61.14		22.25		38.1	35.45
7/27/2008	4:00:00 AM		88.6	98.52		33.59		72.6	52.67
7/27/2008	5:00:00 AM		85.1	72.13		0		60.5	55.98
7/27/2008	6:00:00 AM		86.6	75.09		0		48.1	41.23
7/27/2008	7:00:00 AM		92.5	104.25		0		85.2	53.17
7/27/2008	8:00:00 AM		104.6	121.78		0		208.1	119.26
7/27/2008	9:00:00 AM		108.3	177.81 C		1.7		33.1	59.58 C
7/27/2008	10:00:00 AM		207.3	124.23		42.38		29.5	26.06
7/27/2008	11:00:00 AM		240.6	599.84		60.01		37.8	39.67
7/27/2008	12:00:00 PM		99.1	137.03		5.05		32.4	36.60
7/27/2008	1:00:00 PM		105.4	128.79		26.04		48.1	35.38
7/27/2008	2:00:00 PM		188.2	211.98		43.69		48.8	39.11
7/27/2008	3:00:00 PM		144.3	223.20		14.49		40.7	51.55
7/27/2008	4:00:00 PM		142.9	195.62		0		43.1	44.27
7/27/2008	5:00:00 PM		145.1	204.19		0		62.3	43.35
7/27/2008	6:00:00 PM		135.5	194.64		0		48.1	59.93
7/27/2008	7:00:00 PM		124.5	180.68		0		51.2	46.38
7/27/2008	8:00:00 PM		88.4	124.72		0		52.3	37.17

Unit 3 Hourly Data

Time of Report: 07/20/2008 00:00 hour through 07/28/2008 00:00 hour

Date	Time	Old CEMS		New CEMS		Old CEMS		New CEMS	
		SO2 I 3 (PPMDC)	RPT 3	B3 In Meas SO2 ppm		SO2 O 3 (PPMDC)		CO RPT 3 (PPMDC)	B3 In Meas CO ppm
7/27/2008	9:00:00 PM	100		113.27		0		48.5	48.08
7/27/2008	10:00:00 PM	88.5		117.12		0		48.5	41.54
7/27/2008	11:00:00 PM	64.3		80.84		0		54	42.82
7/28/2008	12:00:00 AM	105.5		94.80		13.35		59.8	47.10
7/28/2008	1:00:00 AM	114		139.41		12.12		63.3	55.79
7/28/2008	2:00:00 AM	76.2		122.52		0		72.6	70.04
7/28/2008	3:00:00 AM	92.3		88.70		0		35.8	42.13
7/28/2008	4:00:00 AM	106.4		133.08		0		66.2	45.68
7/28/2008	5:00:00 AM	109.2		150.70		0		55.1	52.54
7/28/2008	6:00:00 AM	151.9		146.41		17.6		134.2	33.74
7/28/2008	7:00:00 AM	123.6		209.71		29.61		60	121.49
7/28/2008	8:00:00 AM	100.4		140.71		20.3		64.4	60.44
7/28/2008	9:00:00 AM	29.6		73.09 C		0		52.3	45.07 C
7/28/2008	10:00:00 AM	30.4		45.95		0		94.8	52.52
7/28/2008	11:00:00 AM	30.8		38.20		0		45.3	67.47
7/28/2008	12:00:00 PM	33		25.46		0		37.9	38.54
7/28/2008	1:00:00 PM	31.7		21.68		0		41.7	37.80
7/28/2008	2:00:00 PM	27.3		34.20		0		49.2	37.78
7/28/2008	3:00:00 PM	31.9		24.79		0		41.7	44.69
7/28/2008	4:00:00 PM	31.4		32.60		0		43	39.41
7/28/2008	5:00:00 PM	34.3		28.87		0		39.6	38.44
7/28/2008	6:00:00 PM	27		25.52		0		34.3	34.58
7/28/2008	7:00:00 PM	29.1		38.29		0		60.6	38.45
7/28/2008	8:00:00 PM	24.1		60.77		0		48.1	38.79
7/28/2008	9:00:00 PM	31		51.57		0		50.5	36.42
7/28/2008	10:00:00 PM	51.2		61.33		0		39.8	36.15
7/28/2008	11:00:00 PM	60.8		67.98		0		65.2	34.99

Lime Usage Data

Veolia ES Pinellas, Inc.
Daily Report

VEOLIA ES PINELLAS, INC.

Date/Day July 08 Date	REF PROC	LIME									
		Tons Rcvd	% Silo Inventory	Tons Used	Lime Slurry (gpm) Feedrate	Lime Slurry (gpm) Feedrate	Lime Slurry (gpm) Feedrate	Average Specific Gravity	Lime Used Tons	Pounds Lime per Ton Proc	
		LIME	LIME	LIME	#1 Boiler	#2 Boiler	#3 Boiler			Ton Proc	
		72									
14-Jul	1345	26	85	13	11	0	7	1.08	11	16.34	
15-Jul	203	0	83	2	0	12	0	1.08	7	72.30	
16-Jul	1671	25	86	22	0	23	0	1.06	10	12.41	
17-Jul	1668	0	68	16	15	0	11	1.08	16	19.04	
18-Jul	1938	24	69	23	11	9	9	1.08	18	18.28	
19-Jul	2282	23	74	18	12	13	13	1.08	23	20.34	
20-Jul	1880	0	56	18	13	17	18	1.08	29	31.17	
Week:	10986	99		115	9	11	8		115	27	
21-Jul	2045	25	60	21	15	15	9	1.08	24	23.29	
22-Jul	2345	25	72	13	11	5	13	1.08	18	15.10	
23-Jul	2310	24	73	23	22	11	17	1.08	31	26.43	
24-Jul	923	26	85	14	12	0	14	1.08	16	34.41	
25-Jul	1439	26	91	20	14	0	15	1.08	18	24.60	
26-Jul	1107	0	89	2	0	0	18	1.08	11	19.86	
27-Jul	1859	0	74	15	30	0	22	1.08	32	34.16	
Week:	12027	126		106	15	4	15		148	25	
28-Jul	1906	25	78	22	37	0	20	1.08	35	36.51	
29-Jul	1661	0	72	6	35	0	25	1.06	27	32.57	
30-Jul	1363	25	83	14	30	0	22	1.06	23	34.39	
31-Jul	2075	0	75	8	32	0	20	1.06	23	22.59	
Week:	7005	50		49	34	0	22		109	32	

Veolia ES Pinellas, Inc.
Daily Report

VEOLIA ES PINELLAS, INC.

Date/Day January 09 Date	REF PROC	LIME								
		Tons Rcvd LIME	% Silo Inventory LIME	Tons Used LIME	Lime Slurry (gpm) Feedrate #1 Boiler	Lime Slurry (gpm) Feedrate #2 Boiler	Lime Slurry (gpm) Feedrate #3 Boiler	Average Specific Gravity	Lime Used Tons	Lime per Ton Proc
31-Dec	1954	25	67	19.00	27	0	19	1	28	28.75
1-Jan	2980	0	49	18	25	13	12	1.08	31	20.49
2-Jan	2981	50	53	46	12	16	1	1.08	19	12.94
3-Jan	2606	25	54	24	5	8	6	1.08	12	9.00
4-Jan	2475	0	50	4	10	6	6	1.08	13	10.85
Week:	11022	75		92	13	11	6		75	13
5-Jan	2572	25	51	24	13	4	5	1.08	13	10.45
6-Jan	2927	0	49	2	19	4	5	1.08	17	11.88
7-Jan	2968	25	54	20	0	0	0	1.08	0	0.00
8-Jan	2815	25	48	31	0	0	0	1.08	0	0.00
9-Jan	1826	50	58	40	21	0	25	1.08	28	30.90
10-Jan	1012	50	79	29	0	0	16	1.08	10	19.61
11-Jan	1684	0	73	5	0	11	11	1.08	14	16.21
Week:	15803	175		151	8	3	9		82	13
12-Jan	2972	25	76	22	62	7	3	1.08	44	29.46
13-Jan	2513	25	79	22	79	4	4	1.08	53	42.20
14-Jan	3024	25	75	29	83	7	7	1.08	59	39.24
15-Jan	2892	25	90	10	55	9	6	1.08	43	29.55
16-Jan	2706	25	78	37	0	0	0	1.08	0	0.00
17-Jan	2314	25	87	16	0	0	0	1.08	0	0.00
18-Jan	1913	0	65	22	0	0	0	1.08	0	0.00
Week:	18335	150		158	40	4	3		199	20
19-Jan	1522	25	60	30	91	0	8	1.08	60	79.43
20-Jan	0	25	75	10	0	0	0	1.08	0	
21-Jan	118	25	85	15	11	0	0	1.08	7	111.83
22-Jan	1020	0	75	10	24	0	0	1.08	15	29.51
23-Jan	1316	25	81	19	21	0	18	1.08	24	36.19
24-Jan	1795	25	70	36	0	19	8	1.08	16	17.93
25-Jan	2353	25	56	39	0	0	0	1.08	0	0.00
Week:	8124	150		159	21	3	5		122	46

Attachment 4

**Copy of original “Annual Post-Construction Compliance Report CY 2011”
(dated February 29, 2012) and “Amended Annual Post-Construction
Compliance Report CY 2011 and Request for Modification of the Baseline”**

**BOARD OF COUNTY
COMMISSIONERS**

Nancy Bostock
Neil Brickfield
Susan Latvala
John Morrone
Norm Roche
Karen Williams Seel
Kenneth T. Welch



February 29, 2012

Mr. Max Grondahl
Florida Department of Environmental Protection
Division of Air Resource Management
Southwest District Office
13051 N Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Pinellas County Resource Recovery Facility
Title V Permit No. 1030117-008-AV
Annual Post-Construction PSD Compliance Report for CY2011

Dear Mr. Grondahl:

On December 22, 2006, the Florida Department of Environmental Protection (Department) issued construction permit 1030117-007-AC, authorizing the construction of the Facility Improvement Projects (FIP) at the Pinellas County Resource Recovery Facility (Facility). This permit contained certain post-construction monitoring and reporting requirements, which were incorporated into the Facility's Title V permit 1030117-008-AV during permit renewal as Condition A.50. In accordance with condition A.50.a of the above-referenced Title V permit, the Pinellas County Resource Recovery Facility is required to report annual emissions, in tons per year, to the Department for a period of five years following completion of construction.

Completion of FIP

The FIP's boiler refurbishment of MWC Unit 2, the last unit refurbished under the FIP, was completed on March 25, 2010. Therefore, calendar year 2011 is the first year of post-FIP operations for the facility. Accordingly, this first post-FIP emissions report, for calendar year 2011, has been prepared.

PLEASE ADDRESS REPLY TO:
3095 - 114th Avenue North
St. Petersburg, Florida 33716
Phone: (727) 464-7500
FAX: (727) 464-7713
Website: www.pinellascounty.org



Baseline Emissions

The County presented baseline calculations and baseline past actual annual emissions as part of the construction permit application. Subsequently, the baseline past actual annual emissions were recalculated using more current data, and the revised baseline was incorporated into Permit 1030117-008-AV as Attachment 3 upon renewal.

Calendar Year 2011 Post-CRP Emissions

The emissions calculation methodology presented in the construction permit application has been used to calculate the post-CRP emissions for calendar year 2011. The methodology for calculating the post-FIP emissions includes the use of CEMS data and stack test data. Table 1 compares the Facility's average CEMS data for calendar year 2011 with baseline emissions and Table 2 compares the results of stack testing performed at the Facility in April 2011 with baseline emissions.

As shown on Table 1, the CEMS data indicate that the Facility's annual emissions of SO₂ exceeded the baseline emissions. As shown on Table 2, the stack test data indicate that the Facility's annual emissions of particulate matter (PM) exceeded the baseline emissions. Since these actual emissions exceed the preconstruction projections, the County is providing the following explanation for the difference, in accordance with condition A.50.b.(3) of the Title V permit.

The FIP construction projects did not include any work on the Facility's spray dry absorbers or fabric filters and, therefore, the County believes the FIP construction projects themselves did not cause any changes to SO₂ or PM emissions. There has been no increase in Facility capacity as a result of the FIP construction projects. Moreover, there has been a decline (not an increase) in the amount of solid waste processed in the Facility during the last few years due to the economic recession.

The CEMS was replaced during the FIP and the County believes this change may have contributed to the reported difference in SO₂ emissions concentrations. The new monitors may report higher concentrations than the old monitors, when measuring the same concentration. Further, the methodology that was used to calculate the SO₂ baseline relied on geometric averages for the data. This approach may have biased the data lower than would have occurred if the baseline had been calculated with arithmetic averages, as would typically be used.

The methodology used for the PM sample collection during the baseline period used a combination of Method 26A (HCL) with Method 5 (PM), with the test run at a temperature at or near 320°F. The methodology that is currently being used for PM sample collection uses a combination of Method 29 (Metals) and Method 5 (PM), with the test run at a temperature of 248°F, \pm 25°F. Cooling the stack gas from its in-situ temperature of approximately 315°F down to 250°F would likely result in an increase in particulate matter capture. Another factor that may have affected PM emissions concentrations was the increase in lime that was being used in an effort to meet the

SO₂ baseline. The PM emissions also may have been affected because the fabric filter bags on Unit 1 were near the end of their life cycle at the time of the stack test. The bags were changed in May 2011, one month after the stack test was completed.

On December 8, 2011, Pinellas County submitted an application to modify the Facility PSD permit. Pinellas County is working closely with the Department to evaluate and address both SO₂ and PM emissions, and incorporate any necessary changes into the modified PSD permit. Although the County believes that the FIP construction projects did not cause or contribute to the changes in the Facility's emissions, the County filed its application for a PSD permit modification because the County wants to ensure that the Facility is in compliance with its permit and any applicable PSD requirements, regardless of the cause of the emissions increases. No determination that a PSD significant increase has occurred has been made.

Attached is a Responsible Official Certificate as required by Rule 62-213.420(4) of the Florida Administrative Code for any document submitted to the Department for a Title V facility.

Sincerely,

A handwritten signature in black ink that reads "Kelsi Oswald". The signature is written in a cursive, flowing style.

Kelsi Oswald
WTE Program Manager
Pinellas County Division of Solid Waste

Cc: Robert Hauser, Director, Division of Solid Waste
Al Linero, FDEP
Tammy McQuade, FDEP
Melody Lovin, FDEP
David Dee, Gardner, Bist, Weiner, Wadsworth
Don Elias, RTP
Tammy Stankunas, Earthshine Environmental
Rebecca Macionski, Veolia ES Pinellas, Inc.

TABLE 1
Calendar Year 2011 Average CEMS Data Compared to Baseline

	Unit 1	Unit 2	Unit 3	Total
Steam Flow (Klbs/hour)	112,911	109,590	116,365	
Operating Hours	6,314	5,430	6,765	
NOx (ppmdv@7%O ₂)	187.2	186.8	189.2	
NOx (tons/yr)	477.9	399.7	534.9	1413
NOx Baseline (tons/yr)				1540
Increase/PSD Allowable Increase ¹				-127 / 40
SO ₂ (ppmdv@7%O ₂) ²	11.8	11.6	15.0	
SO ₂ (tons/yr)	42.0	35.3	59.7	137
SO ₂ Baseline (tons/yr) ²				91
Increase/ PSD Allowable Increase ¹				46 / 40
CO (ppmdv@7%O ₂)	31.4	38.5	44.7	
CO (tons/yr)	48.8	50.0	79.0	178
CO Baseline (tons/yr)				133
Increase/ PSD Allowable Increase ¹				45 / 100

¹Actual increase/decrease over baseline compared to PSD significant increase.

² SO₂ calculated using geometric averages for consistence with the methodology used for baseline calculations in Table 3 of the Title V Permit.

Actual tons per year are based on 2011 CEMS data for emissions and operating hours and 2011 stack test data for air flow.

Baseline tons per year from Title V Permit are based on 24-month average CEMS data for emissions and operating hours and 5-year average stack test data for air flow.

TABLE 2
Calendar Year 2011 Average Stack Test Data Compared to Baseline

	Unit 1	Unit 2	Unit 3	Total
Steam Flow (Klbs/hour)	112,911	109,590	116,365	
Operating Hours	6,314	5,430	6,765	
PM/PM10 (mg/dscm@7%O ₂)	19.82	13.33	9.22	
PM/PM10 (tons/yr)	25.19	14.42	13.06	53
PM/PM10 Baseline (tons/yr)				9
Increase/ PSD Allowable Increase ¹				44 / 15
Lead (ppmdv@7%O ₂)	0.0272	0.0101	0.0038	
Lead (tons/yr)	0.03	0.01	0.01	0.05
Lead Baseline (tons/yr)				0.03
Increase/ PSD Allowable Increase ¹				0.02 / 0.6
MWC Organics (ppmdv@7%O ₂) ²	4.98	2	1.4	
MWC Organics (tons/yr)	3.50E-08	2.00E-08	2.05E-06	2.1E-06
MWC Organics Baseline (tons/yr)				3.2E-06
Increase/ PSD Allowable Increase ¹				-1.1 / 3.5
Hydrogen Chloride (ppmdv@7%O ₂)	0.63	11	4.6	
Hydrogen Chloride (tons/yr)	1.26	18.60	9.57	29
Hydrogen Chloride Baseline (tons/yr)				74
Increase/ PSD Allowable Increase ¹				-45 / 3
MWC Acid Gases (tons/yr) (SO ₂ + HCl)	43.26	53.9	69.27	166
MWC Acid Gases Baseline (tons/yr)				165
Increase/ PSD Allowable Increase ¹				1 / 40

¹Actual increase/decrease over baseline compared to PSD significant increase

²Only required to test one unit per year, Unit 3 was tested in 2011, Unit 2 was tested in 2010 and Unit 1 was tested in 2010.

Actual tons per year are based on 2011 CEMS data for operating hours and stack test data for emissions and air flow.

Baseline tons per year from Title V Permit are based on 24-month average CEMS data for operating hours and 5-year average stack test data for emissions and air flow.

Pinellas County Resource Recovery Facility

Title V Permit No: 1030117-008-AV

Facility Location:

3001 - 110th Avenue North
St. Petersburg, FL 33716
Pinellas County

Mailing Address:

John Wesley White, Executive Director of Utilities
Pinellas County Utilities Administration
14 South Fort Harrison Avenue, 5th Floor
Clearwater, FL 33756

Attached Document(s): Annual Post-Construction PSD Compliance Report

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this document is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.



Signature

February 29, 2012

Date

Robert Hauser

Name

Director, Division of Solid Waste

Title

**BOARD OF COUNTY
COMMISSIONERS**

Nancy Bostock
Neil Brickfield
Susan Latvala
John Morrioni
Norm Roche
Karen Williams Seel
Kenneth T. Welch



May 23, 2012

Jeff Koerner, P.E.
Office of Permitting and Compliance
Department of Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Pinellas County Resource Recovery Facility
Title V Permit No. 1030117-008-AV
AMENDED Annual Post-Construction PSD Compliance Report for CY 2011
and Request for Modification of the Baseline

Dear Mr. Koerner:

On December 22, 2006, the Florida Department of Environmental Protection (Department) issued construction permit 1030117-007-AC, authorizing the construction of the Facility Improvement Projects (FIP) at the Pinellas County Resource Recovery Facility (Facility). This permit contained certain post-construction monitoring and reporting requirements, which were incorporated into the Facility's Title V permit 1030117-008-AV during permit renewal as Condition A.50. In accordance with Condition A.50.a of the above-referenced Title V permit, the Facility is required to report annual emissions, in tons per year, to the Department for a period of five years following completion of construction.



Completion of FIP

Pinellas County's (County) refurbishment of MWC Unit 2, the last unit refurbished under the FIP, was completed on March 25, 2010. Therefore, calendar year (CY) 2011 was the first year of post-FIP operations for the Facility. Accordingly, a post-FIP emissions report for calendar year 2011 was prepared and submitted to the Department on February 29, 2012. The County now is submitting this amended report because additional information was discovered and/or developed after the submittal of the original report.

Baseline Emissions and Revisions

The County presented baseline calculations and baseline actual emissions as part of the construction permit application for the Facility Improvement Projects. Subsequently, the baseline actual emissions were recalculated using more current data, and the revised baseline was incorporated into Permit 1030117-008-AV as Attachment 3.

After the County submitted the Post-Construction PSD Compliance Report for CY 2011 (dated February 29, 2012), two discrepancies were identified in the methodology that had been used for developing the baseline actual emissions.

- For the calculation of the baseline SO₂ annual emissions, the daily geometric mean SO₂ emission concentrations were used in calculating the monthly average SO₂ emissions, rather than using the arithmetic mean SO₂ emission concentrations.
- The five-year average air flow values were used in developing the baseline, rather than the 24-month air flow values, as specified in Rule 62-210.200(36), F.A.C. Five-year average emission rates were also used for those constituents that are only measured during stack tests, while 24-month averages were used for hours of operation and for constituents monitored using the continuous emissions monitoring systems (CEMS).

In light of these discrepancies, a revised baseline has been prepared and attached to this submittal. Table 1 - Projected Actual Emissions and Revised Baseline, in the "Revised Baseline" spreadsheet, addresses and eliminates the discrepancies identified in the bullet items above.

Calendar Year 2011 Post-FIP Emissions

The emissions calculation methodology presented in the construction permit application was used to calculate the post-FIP emissions for calendar year 2011. The methodology for calculating the post-FIP emissions includes the use of CEMS data and stack test data. Table A compares the Facility's average CEMS data for CY 2011 with baseline actual emissions and Table B compares the results of stack testing performed at the Facility in April 2011 with baseline actual emissions. Tables A and B have been revised using 24 months of air flow data, rather than five years of air flow data, and Table B has also been revised using 24 months of stack test data, rather than five years of data.

As shown on Table B, the 2011 stack test data indicate that the Facility's annual emissions of particulate matter (PM) exceeded the baseline actual emissions. Since it appears that the PM emissions in 2011 exceeded the preconstruction projections, the County is providing the following explanation for the difference, in accordance with Condition A.50.b.(3) of the Facility's Title V permit.

Explanation for Increase in PM Emissions

The Facility Improvement Projects did not include any work on the Facility's spray dry absorbers or fabric filters and therefore the County believes the construction of the projects themselves did not cause any changes to PM emissions. There has been no increase in Facility capacity as a result of the FIP construction projects. Moreover, there has been a decline (not an increase) in the amount of solid waste processed in the Facility during the last few years due to the economic recession.

The County believes the increase in PM emissions is simply the result of using different tests methods. The methodology used for the PM sample collection during the baseline period was a combination of Method 26A (HCL) with Method 5 (PM), and the test was run at a temperature at or near 320°F. The methodology currently being used for PM sample collection is a combination of Method 29 (Metals) and Method 5 (PM), and the test is run at a temperature of 248°F, \pm 25°F. Cooling the stack gas from its in-situ temperature of approximately 315°F down to 250°F increases the amount of PM that is captured.

During the 2012 stack tests, PM testing was performed simultaneously at both test temperatures. The preliminary test results indicate that the methodology using the lower test temperature results in much higher concentrations of PM being reported. Indeed, the average PM concentrations measured at the lower temperature are almost twice the average PM concentrations measured at the higher temperature.

The ratio between the test results for the two methods (0.48) can be applied to the 2011 stack test results to estimate the likely PM emissions concentrations that would have been measured if the 2011 tests had used the same methodology as was used during the baseline period. This approach is used in Table C, below, and it indicates that the Facility's annual emissions of PM in 2011 did not exceed the baseline actual emissions. In light of the preliminary test results for the 2012 stack tests, the County believes that no PSD significant increase for PM occurred in 2011.

Parenthetically, the County's initial post-FIP compliance report (dated February 29, 2012) erroneously indicated that a PSD significant increase in SO₂ emissions had occurred in 2011. The methodology that was used to calculate the SO₂ baseline actual emissions relied on geometric averages for the data. This approach biased the data lower than would have occurred if the baseline had been calculated with arithmetic averages, as would typically be used. The SO₂ baseline has been recalculated using the arithmetic average of hourly average SO₂ readings, and the revised value is reflected on Table A (Revised). Table A indicates that, when

comparing the baseline actual emissions calculated using the arithmetic average to the actual emissions for 2011 using arithmetic average, no PSD significant increase for SO₂ occurred.

Application for PSD Modification

On December 8, 2011, the County submitted an application to modify the Facility's PSD permit. The County is working closely with the Department to evaluate and address both SO₂ and PM emissions, and incorporate any necessary changes into the modified PSD permit. Although the County believes that the FIP construction projects did not cause or contribute to any PSD significant increases in the Facility's emissions, the County filed its application for a PSD permit modification because the County wants to ensure that the Facility is in compliance with its permit and any applicable PSD requirements, regardless of the cause of any emissions increases. No determination that a PSD significant increase has occurred has been made.

FDEP Approval for Modification of the Facility's Baseline Actual Emissions

Based on our recent meetings and teleconference calls with the Department, it is our understanding that the revised baseline calculations and respective adjustments to the annual thresholds for each parameter, presented in Table 1 of the "Baseline Revised 24-month Data and Arithmetic SO₂" spreadsheet attached to this document, are in accordance with the Department's requirements. Accordingly, the County respectfully requests the Department to approve the amendments to the Facility's baseline actual emissions that are described in this report.

Attached is a Responsible Official Certificate, as required by Rule 62-213.420(4) of the Florida Administrative Code, for any document submitted to the Department for a Title V facility.

Sincerely,



Kelsi Oswald

WTE Program Manager

Pinellas County Division of Solid Waste

Cc: Robert Hauser, Director, Division of Solid Waste
Al Linero, FDEP
David Reed, FDEP
Melody Lovin, FDEP
David Dee, Gardner, Bist, Weiner, Wadsworth
Don Elias, RTP Associates, Inc.
Tamara Stankunas, Earthshine Environmental, Inc.
Christopher Tilman, Malcolm Pirnie/ARCADIS
Rebecca Macionski, Veolia ES Pinellas, Inc.
Max Grondahl, FDEP, Southwest District

TABLE A (Revised)

Calendar Year 2011 Average CEMS Data Compared to Baseline

	Unit 1	Unit 2	Unit 3	Total
Steam Flow (Klbs/hour)	112,911	109,590	116,365	
Operating Hours	6,314	5,430	6,765	
NOx (ppmdv@7%O ₂)	187.2	186.8	189.2	
NOx (tons/yr)	477.9	399.7	534.9	1413
NOx Baseline (tons/yr)				1651
Increase/PSD Allowable Increase ¹				-238 / 40
SO ₂ (ppmdv@7%O ₂) ²	11.8	11.6	15.0	
SO ₂ (tons/yr)	42.0	35.3	59.7	159
SO ₂ Baseline (tons/yr) ²				142
Increase/ PSD Allowable Increase ¹				17 / 40
CO (ppmdv@7%O ₂)	31.4	38.5	44.7	
CO (tons/yr)	48.8	50.0	79.0	178
CO Baseline (tons/yr)				141
Increase/ PSD Allowable Increase ¹				37 / 100

Revised baseline values reflect 24-month average CEMS data for emission and operating hours, and 24-month average stack test data for air flow.

¹Actual increase/decrease (tons/yr) over baseline compared to PSD significant increase.

² SO₂ baseline was recalculated to reflect arithmetic average rather than geometric, SO₂ actual tons also reflect arithmetic.

Actual tons per year are based on 2011 CEMS data for emissions and operating hours and 2011 stack test data for air flow.

TABLE B
Calendar Year 2011 Average Stack Test Data Compared to Baseline

	Unit 1	Unit 2	Unit 3	Total
Steam Flow (Klbs/hour)	112,911	109,590	116,365	
Operating Hours	6,314	5,430	6,765	
PM/PM10 (mg/dscm@7%O ₂)	19.82	13.33	9.22	
PM/PM10 (tons/yr)	25.19	14.42	13.06	53
PM/PM10 Baseline (tons/yr)				18
Increase/ PSD Allowable Increase ¹				35 / 15
Lead (ppmdv@7%O ₂)	0.0272	0.0101	0.0038	
Lead (tons/yr)	0.03	0.01	0.01	0.05
Lead Baseline (tons/yr)				0.04
Increase/ PSD Allowable Increase ¹				0.01 / 0.6
MWC Organics (ppmdv@7%O ₂) ²	4.98	2	1.4	
MWC Organics (tons/yr)	3.50E-08	2.00E-08	2.05E-06	2.1E-06
MWC Organics Baseline (tons/yr)				4.2E-06
Increase/ PSD Allowable Increase ¹				-2.1 / 3.5
Hydrogen Chloride (ppmdv@7%O ₂)	0.63	11	4.6	
Hydrogen Chloride (tons/yr)	1.26	18.60	9.57	29
Hydrogen Chloride Baseline (tons/yr)				77
Increase/ PSD Allowable Increase ¹				-48 / 3
MWC Acid Gases (tons/yr) (SO ₂ + HCl)	43.26	53.9	69.27	166
MWC Acid Gases Baseline (tons/yr)				217
Increase/ PSD Allowable Increase ¹				-51 / 40

¹Actual increase/decrease (tons/yr) over baseline compared to PSD significant increase

²Only required to test one unit per year, Unit 3 was tested in 2011, Unit 2 was tested in 2010 and Unit 1 was tested in 2010.

Actual tons per year are based on 2011 CEMS data for operating hours and stack test data for emissions and air flow.

Baseline tons per year from Title V Permit are based on 24-month average CEMS data for operating hours and 24-month average stack test data for emissions and air flow.

TABLE C
Calendar Year 2011 Average PM Stack Test Data
Adjusted for Methodology Change Compared to Baseline

	Unit 1	Unit 2	Unit 3	Total
Steam Flow (Klbs/hour)	112,911	109,590	116,365	
Operating Hours	6,314	5,430	6,765	
PM/PM10 (mg/dscm@7%O ₂)	19.82	13.33	9.22	
PM/PM10 (tons/yr)	25.19	14.42	13.06	53
PM/PM10 Baseline (tons/yr)				18
Increase/ PSD Allowable Increase ¹				35 / 15
PM/PM10 (tons/yr - ADJUSTED)²	12.09	5.92	6.27	25
PM/PM10 Baseline (tons/yr)				18
Increase/ PSD Allowable Increase ¹				7 / 15

¹Actual increase/decrease (tons/yr) over baseline compared to PSD significant increase

²PM/PM10 ADJUSTED reflects application of the ratio between PM results from analysis at high and low temperatures, as provided below. Baseline PM analyses were performed at high temperature (~320°F) and 2011 analyses were performed at low temperature (~250°F).

Actual tons per year are based on 2011 CEMS data for operating hours and stack test data for emissions and air flow.

Baseline tons per year from Title V Permit are based on 24-month average CEMS data for operating hours and 24-month average stack test data for emissions and air flow.

		Total PM Concentration (mg/dscm@7% oxygen)			AVG
		Run #1	Run #2	Run #3	
MWC Unit #1	Low Temperature	18.32	17.13	16.9	17.45
	High Temperature	7.36	7.0	9.17	7.84
MWC Unit #3	Low Temperature	18.95	15.97	15.8	16.91
	High Temperature	9.07	7.69	9.15	8.63
Ratio	High : Low Temp	0.44	0.44	0.56	0.48

ENGINEER'S CERTIFICATION

This Amended Annual Post-Construction PSD Compliance Report for CY2011 dated May 23, 2012 was prepared by a Professional Engineer registered in the State of Florida and is being filed for public record. In accordance with Florida Administrative Code Chapter 62-4.050(3), reports of an engineering nature must be certified by a professional engineer registered in the State of Florida. I hereby certify that, to the best of my knowledge, the statements made and data contained in this document are true, accurate and complete.



Pinellas County Resource Recovery Facility

Title V Permit No: 1030117-008-AV

Facility Location:

3001 - 110th Avenue North
St. Petersburg, FL 33716
Pinellas County

Mailing Address:

David Scott, Executive Director
Pinellas County Dept. of Env and Infrastructure
14 South Fort Harrison Avenue, 5th Floor
Clearwater, FL 33756

Attached Document(s): Revised 2011 Annual Post-Construction PSD Compliance Report

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this document is being submitted. I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.



Signature

May 23, 2012
Date

Robert Hauser
Name

Director, Division of Solid Waste
Title

Table 1
Pinellas County Resource Recovery Facility
2007 Facility Rehabilitation Project
Projected Actual Emissions
Revised Baseline utilizing 24-hour average values for air flow and stack test data

Pollutant	24-month period	Baseline Actuals (ton)	Projected Demand Growth (1)	Projected Project-Related Increase (2)	Projected Maximum Actuals (3)	Increase (ton)	Significant Increase Threshold (ton)	Significant?	2011 Emissions	Increase Over Baseline	Significant?
CO	Jan 06 - Dec 07	141	0	0	240	99	100	No	178	37	No
NOx	Nov 05 - Oct 07	1651	0	0	1690	39	40	No	1413	-238	No
SO2	Jan 06 - Dec 07	142	0	0	181	39	40	No	137	-5	No
PM	Nov 05 - Oct 07	18.1	0	0	42	24	25	No	53	(4) 35	Yes
PM10	Nov 05 - Oct 07	18.1	0	0	32	14	15	No	53	(4) 35	Yes
MWC Metals	Nov 05 - Oct 07	18.1	0	0	32	14	15	No	53	(4) 35	Yes
Lead	Nov 05 - Oct 07	0.038	0	0	0.63	0.590	0.6	No	0.05	0.01	No
MWC Organics	Jan 04 - Dec 05	4.16E-06	0	0	6.66E-06	2.50E-06	3.50E-06	No	2.10E-06	-2.06E-06	No
MWC Acid Gases	Nov 05 - Oct 07	217	0	0	256	39	40	No	166	-51	No

NOTE: SO2 values were calculated using the arithmetic mean.

(1) - Currently no significant demand growth is anticipated. However demand growth projections will be evaluated annually.

(2) - There are no current or projected project-related emissions increases. Changes due to such factors as boiler availability fluctuations are possible and will be evaluated annually. However any increase(s), should they occur, are not projected to be above the respective SER for each monitored parameter.

(3) - Column indicates the Facility's revised maximum annual threshold for each parameter as amended by the change in the respective baseline actuals.

(4) - High PM values are due to a methodology change; no actual increase occurred.

Summary of CEM Data - Baseline Emission Periods

2007 Facility Rehabilitation Project - Baseline Actual Emissions Calculation

	Boiler 1			Boiler 2			Boiler 3		
	CO (ton)	NOx (ton)	SO2 (ton)	CO (ton)	NOx (ton)	SO2 (ton)	CO (ton)	NOx (ton)	SO2 (ton)
Jan 04-Dec 05	39.1	617.3	38.2	46.3	638.8	20.8	47.0	494.2	16.8
Feb 04-Jan 06	39.4	613.7	38.5	46.2	632.1	21.6	47.2	495.4	18.1
Mar 04-Feb 06	38.8	614.5	38.2	45.7	634.0	22.8	48.3	491.2	16.6
Apr 04-Mar 06	41.0	619.4	38.0	48.6	638.7	24.4	45.9	492.3	17.4
May 04-Apr 06	43.8	637.8	39.3	41.7	488.9	23.1	44.9	487.2	17.7
Jun 04-May 06	43.5	635.9	40.2	41.3	488.5	24.7	45.0	487.5	18.2
Jul 04-Jun 06	44.0	635.8	40.6	40.9	482.9	25.8	44.8	484.2	19.4
Jan 06-Dec 07	64.7	607.7	56.3	29.8	484.3	45.7	46.9	528.9	39.7
Nov 05 - Oct 07	62.1	612.6	53.4	30.8	501.8	45.0	47.8	638.5	42.0

	Boiler 1				Boiler 2				Boiler 3			
	PM/PM10 (ton)	HCl (ton)	Lead (ton)	MWC Organics (ton)	PM/PM10 (ton)	HCl (ton)	Lead (ton)	MWC Organics (ton)	PM/PM10 (ton)	HCl (ton)	Lead (ton)	MWC Organics (ton)
Jan 04-Dec 05	1.24	27.57	0.002888	1.42E-06	2.27	33.00	0.008238	1.44E-08	5.76	18.07	0.020858	1.31E-06
Feb 04-Jan 06	1.23	27.33	0.002873	1.41E-06	2.25	32.68	0.008168	1.42E-08	5.76	18.08	0.020874	1.31E-06
Mar 04-Feb 06	1.23	27.28	0.002868	1.40E-06	2.25	32.78	0.008180	1.43E-08	5.70	15.92	0.020866	1.30E-06
Apr 04-Mar 06	1.24	27.80	0.002891	1.41E-06	2.27	33.06	0.008264	1.44E-08	5.70	15.92	0.020882	1.30E-06
May 04-Apr 06	2.73	28.34	0.007571	1.08E-06	3.42	27.09	0.009365	9.80E-07	6.73	16.16	0.022327	9.41E-07
Jun 04-May 06	2.71	28.14	0.007513	1.07E-06	3.41	27.07	0.009349	8.80E-07	6.73	16.16	0.022328	9.41E-07
Jul 04-Jun 06	2.71	28.10	0.007503	1.07E-06	3.38	26.78	0.009249	8.80E-07	6.88	16.08	0.022183	9.36E-07
Jan 06-Dec 07	6.01	32.28	0.018568	6.68E-07	4.56	27.34	0.008574	5.40E-07	7.26	15.71	0.012051	5.57E-07
Nov 05 - Oct 07	6.07	32.68	0.018704	6.81E-07	4.87	28.09	0.008808	5.56E-07	7.34	15.87	0.012170	5.62E-07

Facility Total

	CO (ton)	NOx (ton)	SO2 (ton)	PM/PM10 (ton)	Lead (ton)	HF (ton)	MWC Organics (ton)	MWC Metals (ton)	MWC Acid Gases (ton)	HCl (ton)
Jan 04-Dec 05	132.3	1650.1	74.9	9.28	0.0320	0.1395	4.16E-06	9.28	151.5	78.8
Feb 04-Jan 06	132.8	1641.2	78.1	9.23	0.0319	0.1418	4.14E-06	9.23	152.2	78.1
Mar 04-Feb 06	131.9	1539.7	77.8	9.18	0.0317	0.1414	4.13E-06	9.18	153.5	76.0
Apr 04-Mar 06	132.6	1650.6	79.8	9.21	0.0318	0.1422	4.15E-06	9.21	156.3	78.5
May 04-Apr 06	130.4	1513.9	80.1	12.87	0.0393	0.1422	2.98E-06	12.87	149.7	89.6
Jun 04-May 06	129.8	1511.9	83.1	12.85	0.0392	0.1418	2.97E-06	12.85	152.4	89.4
Jul 04-Jun 06	129.5	1503.0	85.8	12.77	0.0388	0.1409	2.95E-06	12.77	154.8	88.9
Jan 06-Dec 07	141.4	1822.0	141.7	17.83	0.0372	0.1344	1.75E-06	17.83	217.1	75.3
Nov 05 - Oct 07	140.4	1860.9	140.4	18.07	0.0377	0.1364	1.78E-06	18.07	216.9	76.5
MAX	141.4	1850.9	141.7	18.1	0.0393	0.1422	4.16E-06	18.1	217.1	78.8

Summary of CEM Data

2007 Facility Rehabilitation Project - Baseline Actual Emissions Calculation

24-Month Total Hours and Pollutant Averages*

Time Period	Boiler 1				Boiler 2				Boiler 3			
	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)
Jan 04-Dec 05	14847	22.5	9.8	181.0	14195	28.2	5.2	185.7	15029	29.3	4.3	187.3
Feb 04-Jan 06	14719	22.9	9.8	181.3	14058	26.4	5.4	185.3	15040	29.4	4.4	187.6
Mar 04-Feb 06	14695	23.2	9.7	181.9	14095	26.1	5.7	185.4	14882	29.1	4.6	188.0
Apr 04-Mar 06	14812	23.6	9.6	182.2	14222	25.9	6.0	185.4	14887	28.8	4.8	188.4
May 04-Apr 06	14797	24.3	9.6	182.0	14118	26.0	6.3	185.5	15005	28.6	4.9	188.6
Jun 04-May 06	14684	24.4	9.8	182.8	14109	25.8	6.8	185.5	15006	28.6	5.1	188.7
Jul 04-Jun 06	14665	24.7	10.0	183.0	13958	25.8	7.1	185.4	14909	28.5	5.4	188.7
Jan 06-Dec 07	15803	32.5	12.4	185.6	13599	18.1	12.2	179.6	15942	27.7	10.3	190.5
Nov 05-Oct 07	15941	30.9	11.6	185.4	13970	18.1	11.7	181.2	16101	27.9	10.8	191.0

Stack Test Data

B1 Air flow	B2 Air flow	B3 Air flow
98520	104578	89873
98520	104578	89873
98520	104578	89873
98520	104578	89873
102195	95522	88090
102195	95522	88090
102195	95522	88090
115701	110704	97423
115701	110704	97423

* Each time period excludes September and October of 2005 - units down because of SDA failures.

Summary of CEM Data

2007 Facility Rehabilitation Project - Baseline Actual Emissions Calculation

24-Month Total

Time Period	PM			Lead			HCI			Organics		
	B1	B2	B3	B1	B2	B3	B1	B2	B3	B1	B2	B3
Jan 04-Dec 05	0.83	1.50	4.17	0.00194	0.00543	0.01512	12.17	14.36	7.69	0.949	0.949	0.949
Feb 04-Jan 06	0.83	1.50	4.17	0.00194	0.00543	0.01512	12.17	14.36	7.69	0.949	0.949	0.949
Mar 04-Feb 06	0.83	1.50	4.17	0.00194	0.00543	0.01512	12.17	14.36	7.69	0.949	0.949	0.949
Apr 04-Mar 06	0.83	1.50	4.17	0.00194	0.00543	0.01512	12.17	14.36	7.69	0.949	0.949	0.949
May 04-Apr 06	1.77	2.48	4.98	0.00490	0.00679	0.01653	11.25	12.97	7.90	0.697	0.697	0.697
Jun 04-May 06	1.77	2.48	4.98	0.00490	0.00679	0.01653	11.25	12.97	7.90	0.697	0.697	0.697
Jul 04-Jun 06	1.77	2.48	4.98	0.00490	0.00679	0.01653	11.25	12.97	7.90	0.697	0.697	0.697
Jan 06-Dec 07	3.51	3.23	5.00	0.00967	0.00608	0.00829	12.44	12.80	7.13	0.383	0.383	0.383
Nov 05-Oct 07	3.51	3.23	5.00	0.00967	0.00608	0.00829	12.44	12.80	7.13	0.383	0.383	0.383

* Each time period

Summary of CEM Data

2007 Facility Rehabilitation Project - Baseline Actual Emissions Calculation

Monthly CEM Data

Month	Boiler 1				Boiler 2				Boiler 3			
	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)	Hours	CO (ppm)	SO2 (ppm)	NOx (ppm)
Jan-04	741	11	9	170	735	23	8	181	733	22	11	183
Feb-04	698	13	14	170	621	29	9	178	696	28	9	180
Mar-04	625	15	18	179	574	29	10	182	738	30	9	182
Apr-04	709	11	13	184	635	24	11	182	602	28	7	183
May-04	719	20	5	189	687	23	2	183	743	24	3	187
Jun-04	720	18	6	174	683	22	3	186	648	28	1	193
Jul-04	711	21	8	175	740	17	3	193	739	33	4	185
Aug-04	560	21	8	171	447	22	7	193	588	31	3	185
Sep-04	534	29	8	175	616	41	6	191	628	34	4	184
Oct-04	736	23	9	180	733	23	1	189	744	34	2	189
Nov-04	585	24	9	186	462	78	4	181	597	27	3	189
Dec-04	744	23	11	188	744	16	3	189	728	31	3	188
Jan-05	739	26	11	179	700	23	4	185	726	36	1	184
Feb-05	649	34	12	183	554	20	4	185	589	37	2	182
Mar-05	686	39	10	184	490	25	2	189	652	28	2	186
Apr-05	548	28	10	187	720	15	4	187	720	24	1	186
May-05	671	22	15	182	712	12	7	189	744	23	2	188
Jun-05	603	33	13	191	587	16	9	191	576	27	5	191
Jul-05	744	20	5	192	675	21	3	189	707	30	2	195
Aug-05	712	18	4	192	637	31	4	179	666	28	2	193
Nov-05	670	21	7	185	720	26	6	181	720	26	12	186
Dec-05	744	24	6	188	724	42	4	180	744	37	8	190
Jan-06	613	20	12	177	598	28	12	171	744	24	12	189
Feb-06	672	20	12	183	658	22	16	182	538	22	13	189
Mar-06	743	25	15	185	701	25	18	181	743	25	14	192
Apr-06	694	27	13	181	531	27	16	186	720	21	10	189
May-06	607	21	12	186	677	17	13	183	744	26	6	189
Jun-06	700	25	8	179	532	22	11	183	551	26	9	193
Jul-06	742	24	14	179	584	10	13	190	709	25	8	193
Aug-06	624	25	17	174	717	10	18	189	744	26	12	194
Sep-06	710	30	17	182	685	12	17	186	720	28	13	194
Oct-06	432	28	16	175	429	11	19	178	648	28	13	188
Nov-06	720	32	10	187	152	8	13	196	556	26	9	195
Dec-06	744	27	9	187	744	10	9	189	570	29	11	190
Jan-07	580	29	8	190	671	13	12	183	659	31	3	193
Feb-07	560	33	7	192	589	16	7	190	510	32	10	197
Mar-07	718	47	14	186	0				735	30	9	193
Apr-07	570	35	7	192	386	12	12	185	684	35	6	193
May-07	691	41	7	195	576	13	8	180	728	30	4	193
Jun-07	641	39	11	192	718	17	10	175	611	21	15	192
Jul-07	661	36	11	185	627	15	11	183	694	29	21	189
Aug-07	741	42	8	193	585	21	8	165	697	27	18	177
Sep-07	647	52	17	187	720	19	9	175	660	36	17	186
Oct-07	719	40	19	191	645	21	7	161	672	28	4	190
Nov-07	562	41	17	190	486	32	14	168	632	27	7	185
Dec-07	715	41	13	186	586	37	8	157	674	33	1	189
SDA Failure Excluded Time												
Sep-05	542	13	6	191	457	25	2	179	489	29	5	195
Oct-05	467	10	12	183	276	25	7	187	228	29	12	193

NOTE: All pollutant concentrations corrected to 7% oxygen.

Replaced originally used geometric SO₂ monthly averages with arithmetic SO₂ monthly averages

