KOCH
METHANOL ST. JAMES

LDEQ RECEIPT
2023 FEB -8 PM 4:44

Koch Methanol St. James
5181 Wildcat Street
St. James, LA 70086

Post Office Box 510
Vacherie, LA 70090

HAND DELIVERED

February 8, 2023

Louisiana Department of Environmental Quality
Office of Environmental Services
PO Box 4313
Baton Rouge, LA 70821-4313

RE: Koch Methanol St. James, LLC
Koch Methanol Facility
Revised Air Quality Impact Assessment (AQIA) in support of the
KMe Optimization Project: Addendum to Application for a Significant Modification to
Title V Permit No. 2560-00295-V4 and an Initial PSD Permit
AI No. 194165
Activity Nos. PER20220006 and PER20220007

Dear Sir or Madam:

Koch Methanol St. James, LLC (Koch) operates the Koch Methanol (KMe) Plant and KMe Terminal located in St. James, St. James Parish, Louisiana. The KMe Plant currently operates under Title V Permit No. 2560-00295-V4, and the KMe Terminal currently operates under Title V Permit No. 3169-V3. Koch is submitting this updated AQIA modeling report in support of the Addendum to Application for a Significant Modification to Title V Permit No. 2560-00295-V4 and an initial PSD Permit that was submitted on February 1, 2023.

Enclosed are the revised AQIA modeling report and two copies, as required by LDEQ; and per LAC 33:III.533.B.1, a copy of the report is also being submitted to the United States Environmental Protection Agency, Region 6.

If you or your staff have any questions or require additional information during your review of this addendum or the application in general, please contact Brian Glover at (225) 408-2741, bglover@ramboll.com, or you may contact me at (580) 478-7621, kevan.reardon@kochind.com.

Sincerely,

Kevan Reardon
EH&S and Security Leader

cc: Mr. Anthony Randall
Office of Environmental Services
Louisiana Department of Environmental Quality
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

Ms. Yvette Olmos
Office of Environmental Services
Louisiana Department of Environmental Quality
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Baton Rouge, Louisiana 70821-4313

EPA Region 6 (r6airpermitsla@epa.gov)

Prepared for
Koch Methanol St. James, LLC
Koch Methanol Facility (KMe Facility)
St. James, St. James Parish, Louisiana

Date
February 8, 2023

Prepared by
Ramboll US Consulting, Inc.

Agency Interest No.
194165

REVISED AIR QUALITY IMPACT ASSESSMENT IN SUPPORT OF THE KME OPTIMIZATION PROJECT: ADDENDUM TO APPLICATION FOR A SIGNIFICANT MODIFICATION TO TITLE V PERMIT NO. 2560-00295-V4 AND AN INITIAL PSD PERMIT

REVISED AIR QUALITY IMPACT ASSESSMENT

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TABLES

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ATTACHMENTS TO REVISED AQIA

1. Introduction

Koch Methanol St. James, LLC (Koch) operates the Koch Methanol Plant (KMe Plant) and the adjacent Koch Methanol Terminal (KMe Terminal), collectively known as the KMe Facility, located in St. James, St. James Parish, Louisiana. In November 2022, Koch submitted an application to the Louisiana Department of Environmental Quality seeking to consolidate the KMe Plant and KMe Terminal into a single Title V permit, revise certain existing emissions limits, and to authorize the construction of the KMe Optimization Project (November 2022 Application).

An Air Quality Impact Assessment (AQIA) was conducted as one of the PSD review requirements conservatively applied as discussed in Part 3 of the November 2022 Application. The results of the modeling were used to assess potential off-property impacts in relation to PSD Significant Impact Levels (SILs) for Class II areas and to show that emissions would not cause or contribute to an exceedance of the applicable National Ambient Air Quality Standards (NAAQS) or the PSD Increment levels. An additional impacts analysis, Class I screening analysis, and ozone impacts analysis were also performed.

The AQIA also addressed increases of allowable emissions of Louisiana Toxic Air Pollutants (LTAPs), ammonia and methanol, greater than their respective Minimum Emission Rates (MERs). Dispersion modeling was used to evaluate the impacts of the allowable ammonia and methanol increases and demonstrated that such impacts would not cause or contribute to an exceedance of the applicable Louisiana Ambient Air Standards for those pollutants. While other LTAP species may have allowable emissions increases exceeding MERs, review of the emissions sources for those species indicated that all or a portion of those LTAP emissions increases were a result of the combustion of Group 1 virgin fossil fuels and that any non-exempt portions did not exceed MERs. Therefore, emissions increases of species other than ammonia and methanol were exempt from the requirements of Louisiana Administrative Code Title 33, Chapter 51, per the special provisions provided in LAC 33:III:5105.B.3.

Koch submitted an addendum to portions of the November 2022 Application to the LDEQ on February 1, 2023 (the Addendum). The Addendum included revisions to emissions calculations for several emission units. As a result of these emissions revisions, the predicted ambient impacts were re-evaluated. Koch is therefore submitting this update to the AQIA that was previously submitted as Appendix E in the November 2022 Application (November 2022 AQIA) to demonstrate that the proposed emissions limits reflected in the Addendum will not cause or contribute to an exceedance of the NAAQS or PSD Increment and that the proposed emissions increases of methanol and ammonia reflected in the Addendum will not cause or contribute to an exceedance of the Louisiana Ambient Air Standards for LTAPs.

2. AQIA UPDATE METHODOLOGY

2.1 PSD AQIA Update Approach

As with the November 2022 AQIA, the AQIA updates were performed using dispersion modeling techniques in accordance with the EPA's Guideline on Air Quality Models (codified as Appendix W to 40 CFR Part 51, hereafter referred to as the Guideline)[1], LDEQ Air Quality Modeling Procedures, and EPA guidance memoranda highlighted in the November 2022 AQIA.

In this Updated AQIA, differences between this update and the November 2022 AQIA are highlighted. Emissions rates and a densification of a portion of the receptor grid for the 1-hour NO_2 NAAQS demonstration are the only modeling inputs that were changed with this update, and all methodologies that were approved with the Protocol for the November 2022 AQIA (see Appendix A of the November 2022 AQIA) were followed with this updated modeling. Sections of the November 2022 AQIA are updated as needed with the details reflecting the revised modeling. If there are no changes to a particular component of the November 2022 AQIA, the details of the common components are not included in this document and the reader is referred to the November 2022 AQIA. Furthermore, table, figure, and attachment numbers have been kept the same as the November 2022 AQIA for ease of reference.

2.1.1 Dispersion Model Selection and Application

The rationale for the dispersion modeling approach is the same as that contained in the November 2022 AQIA.

2.1.2 Modeling Procedures

As with the November 2022 AQIA, AERMOD (version 22112) was utilized to calculate concentrations using the regulatory defaults in addition to the options and data discussed herein.

2.1.2.1 Model Setup and Application

The model options selected were the same as those used in the November 2022 AQIA.

2.1.2.2 Emissions and Averaging Periods

The pollutant averaging periods and treatment of intermittent sources by pollutant and averaging period were the same as those used in the November 2022 AQIA.

[1] United States Environmental Protection Agency (USEPA). 2017. Revision to the Guideline on Air Quality Models 40 CFR Part 51 Appendix W. January 17, 2017.

2.1.2.3 NOx-to-NO_2 Chemical Transformations

The treatment of NOx-to-NO_2 transformations was the same as that used in the November 2022 AQIA.

2.1.2.4 Intermittent Sources

The treatment of intermittent sources was the same as that used in the November 2022 AQIA.

2.1.2.5 Emission Rates

The maximum short-term and annual emissions rates for the modeled sources are summarized in Table E-3 below. Rates that have changed since the November 2022 Application are bolded and italicized.

Table E-3: Koch Methanol St. James – Updated Criteria Pollutant Emission Rates for Significant Impact and Full Impact Analyses

Source	Source ID	AERMOD ID	CO Emissions	NOx Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
			Short-term (lb/hr)	Short-term (lb/hr)	Long-term (tpy)	Short-term (lb/hr)	Long-term (tpy)	Short-term (lb/hr)	Long-term (tpy)
Steam Methane Reformer [a]	SMR	M1_SMR	98.50	17.25	75.56	13.37	56.29	13.37	56.29
Auxiliary Boiler [a]	BLR	M1_BLR	48.02	5.25	23.00	8.20	17.13	8.20	17.13
Process Condensate Stripper Vent	PCSVENT	M1_PCV	39.38	--	--	--	--	--	--
Flare 1	FLR	M1_F1_ST	2170.00	***523.60***		2.50		2.50	
		M1_F1_LT			***26.92***		***0.16***		***0.16***
Emergency Generator [b]	EGEN	M1_EGEN	20.91	--	1.91	0.05	0.06	0.05	0.06
Fire Pump 1 [b]	FWP-01	M1_FP1	3.44	--	0.20	0.01	0.01	0.01	0.01
Fire Pump 2 [b]	FWP-02	M1_FP2	3.44	--	0.20	0.01	0.01	0.01	0.01
Fire Pump 3 [b]	FWP-03	M1_FP3	0.50	--	0.07	0.002	0.003	0.002	0.003
Cooling Tower 1 [c]	CWT	M1_CT_1	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 2 [c]		M1_CT_2	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 3 [c]		M1_CT_3	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 4 [c]		M1_CT_4	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 5 [c]		M1_CT_5	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 6 [c]		M1_CT_6	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 7 [c]		M1_CT_7	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 8 [c]		M1_CT_8	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 9 [c]		M1_CT_9	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 10 [c]		M1_CT_10	***0.10***	--	--	0.04	0.17	0.02	0.08
Cooling Tower 11 [c]		M1_CT_11	***0.10***	--	--	0.04	0.17	0.02	0.08
Admin Building Generator [b]	EGEN2	M1ADGEN	1.85	--	0.05	***6.62E-04***	***7.94E-04***	***6.62E-04***	***7.94E-04***
Generac 1 [b]	E.GEN01	T1_EGEN1	2.90	--	1.42	0.03	0.04	0.03	0.04
Generac 2 [b]	E.GEN02	T1_EGEN2	2.90	--	1.42	0.03	0.04	0.03	0.04

Table E-3: Koch Methanol St. James – Updated Criteria Pollutant Emission Rates for Significant Impact and Full Impact Analyses

Source	Source ID	AERMOD ID	CO Emissions	NOx Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
			Short-term (lb/hr)	Short-term (lb/hr)	Long-term (tpy)	Short-term (lb/hr)	Long-term (tpy)	Short-term (lb/hr)	Long-term (tpy)
Vapor Combustion Unit	RTLOAD	VCU	3.07	9.31	24.09	0.28	0.72	0.28	0.72
Trap Vents	CTVENT	TRAP	0.02	--	--	--	--	--	--
M1 Area Fugitives	FUG	M1_FUG	3.65	--	--	--	--	--	--

Notes:

[a] Short-term NO_2 emissions modeled at annualized rate. While higher NO_2 emission rates may occur for short periods during periods of startup/shutdown, these periods are 100 hours or fewer per year. Therefore, the higher short-term rates are treated as intermittent.

[b] Intermittent source operating 100 hours per year or fewer. NO_2 emissions excluded from NO_2 short-term analysis. $PM_{2.5}$ and PM_{10} short-term emission rates modeled as maximum hourly rate, divided by 24, since up to one hour per day of operation is expected.

[c] Cooling tower emissions split equally among the 11 cells.

2.1.2.6 Stack Parameters

Stack parameters including locations, stack heights, exhaust temperatures and velocities, and diameters are the same as those used in the November 2022 AQIA.

2.1.2.7 Building Downwash and Good Engineering Practice Analysis

The parameters of the buildings included in the downwash calculations, and the procedure used to determine the projected downwash parameters, are the same as those used in the November 2022 AQIA.

2.1.2.8 Receptor Locations

The updated significant impact analysis was initially performed on the same receptor grid used in the November 2022 AQIA with the following receptor spacing:

- 100 m along the property fenceline/boundary;
- 100 m on the innermost grid, extending 1,000 m from the facility;
- 500 m on an intermediate grid, extending 5,000 m from the facility;
- 1,000 m on the outermost grid, extending 10,000 m from the facility.

As will be shown in Section 2.2 below, the significant impact analysis results for all pollutants and averaging periods remain below their respective SIL with the exception of 1-hour NO_2.

With the emissions rates modeled for this update, modeled concentrations exceeded the SIL for 1-hour NO_2 at several receptors to the west of the facility in the 500 m receptor grid, in addition to the receptors where the modeled concentration exceeded the SIL in the November 2022 AQIA. In the November 2022 AQIA, all receptors exceeding the SIL were either on the fenceline/property boundary or in the 100 m grid.

To ensure the region of 1-hour NO_2 SIL exceedances was fully evaluated, an additional grid of 100-m spaced receptors was placed in the area of the additional exceedances. The additional 100 m gridded receptors encompassed the region in which SIL exceedances on the intermediate grid were found and extended out an additional 500 m in each direction. No SIL exceedances occurred on the edge of the additional grid, so the additional receptors are sufficient to capture the region of the additional SIL exceedances.

The receptors used in the 1-hour NO_2 modeling are illustrated in updated Figure E-3.

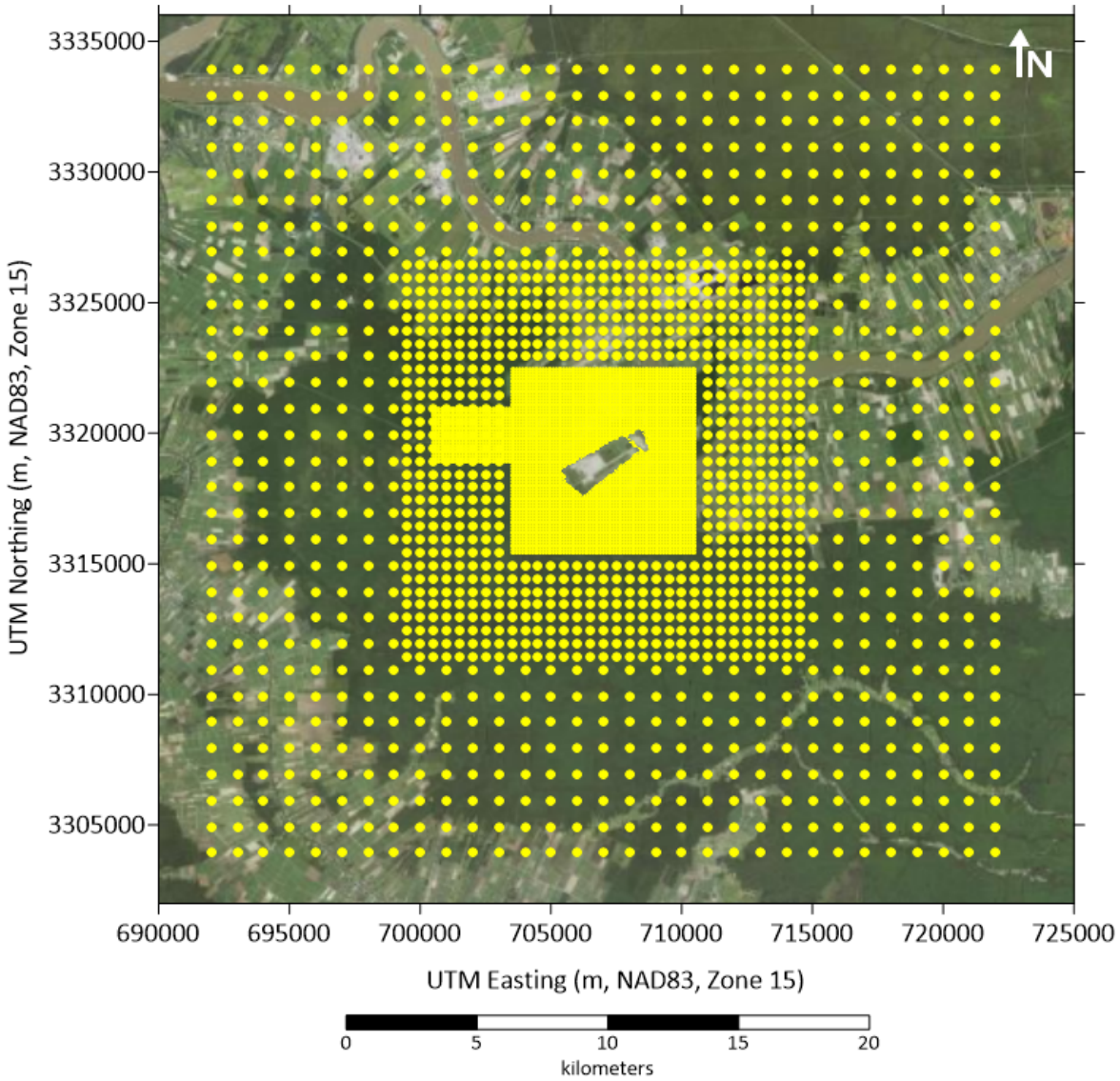

Figure E-3: Koch Methanol St. James – PSD Receptor Grids Including Additional 1-Hour NO_2 Receptors

2.1.2.9 Land Use

The land use analysis is the same as that used in the November 2022 AQIA.

2.1.2.10 Meteorological Data

The meteorological data is the same as that used in the November 2022 AQIA.

2.1.3 Criteria Pollutant Significant Impact Analysis

As in the November 2022 AQIA, the proposed total emissions for all criteria pollutants from the facility were modeled as part of the significant impact analysis.

Ambient concentrations of criteria pollutants due to modeled emissions sources were predicted using AERMOD. Maximum short-term concentrations and annual

average concentrations were obtained for comparison with the SILs[2]. For the 1-hour NO_2, EPA's interim SIL (4 percent of the NAAQS) was applied.[3]

If pollutant concentrations exceed the SILs, then further evaluation is required to compare impacts to the Class II PSD Increment and the NAAQS. The results of the significant impact analysis are discussed in Section 2.2 below.

2.1.4 Preconstruction Monitoring Analysis

No changes to conclusions regarding preconstruction monitoring analysis occurred as a result of these updates.

2.1.5 NAAQS Assessment

Based on the results of the significant impact analyses, refined modeling, including emissions from nearby sources, was performed to assess impacts for the 1-hour NO_2 NAAQS since the significant impact analysis showed that modeled 1-hour NO_2 impacts exceed the SIL for this standard. The results and discussion are presented in Section 2.4.2 below. The only change to this assessment from the November 2022 AQIA other than the emissions rate revisions and inclusion of additional receptors was the inclusion of additional offsite sources due to the significant impact area increasing.

2.1.6 PSD Class II Increment Consumption

As with the November 2022 AQIA, the only pollutant and averaging period for which the SIL is predicted to be exceeded is 1-hour NO_2. There is no PSD Increment associated with 1-hour NO_2; therefore, PSD increment analysis is not required.

2.2 Significant Impact Analysis

The first phase of the AQIA – the significant impact analysis – was updated for CO, NO_2, PM_{10}, and $PM_{2.5}$.

The maximum off-site impacts predicted are shown in Table E-7. Based on these results, the predicted impacts do not exceed the SILs for 1-hour and 8-hour CO; annual and 24-hour PM_{10}; annual and 24-hour $PM_{2.5}$; and annual NO_2. Except for 24-hour $PM_{2.5,}$ impacts were also below the monitoring thresholds. As discussed in the Protocol, $PM_{2.5}$ monitoring data from the Geismar, Louisiana ambient air quality station has been found to be representative of ambient $PM_{2.5}$ concentrations at the facility location. Thus, the updated analysis was complete and no further modeling was required for these standards.

[2] The highest of the 5-year receptor averages of the maximum AERMOD-predicted concentrations each year at each receptor is used for comparison with the 1-hour NO_2 and 24-hour $PM_{2.5}$ SILs.

[3] General Guidance for Implementing the 1-hour NO_2 National Ambient Air Quality Standard in Prevention of Significant Deterioration Permits, Including an Interim 1-hour NO_2 Significant Impact Level. June 28, 2010 EPA Memorandum.

The results of the updated significant impact analysis for 1-hour NO_2 showed the maximum modeled concentrations were over the corresponding SIL. Thus, an updated full-impact analysis was performed for this standard and the results and discussions are presented in Section 2.4 below.

A DVD containing all updated modeling files for the significant impact analysis is included in Attachment E-4.

Table E-7: Significant Impact Analysis – Updated Modeling Results

Pollutant	Averaging Period	Maximum Modeled Concentration[a,b] (µg/m³)	SIL (µg/m³)	> SIL?	Monitoring De Minimis Concentration (µg/m³)	Is Pre-construction Monitoring Required?
CO	1-hour	1453.56	2,000	No	None	N/A
	8-hour	441.48	500	No	575	No
NO_2	Annual	0.40[c]	1	No	14	No
	1-hour	11.86[c]	7.5	Yes	None	N/A
PM_{10}	Annual	0.16	1	No	None	N/A
	24-hour	1.32	5	No	10	No
$PM_{2.5}$[d]	Annual	0.11	0.2	No	None	N/A
	24-hour	1.01	1.2	No	0	No[e]

Notes:

[a] For the annual averaging period, modeled concentrations represent the maximum annual average concentration over five years.

[b] For the short-term averaging periods, modeled concentrations represent the maximum highest first high (H1H) value over five years, except for 1-hour NO_2 and 24-hour $PM_{2.5}$, which represent the highest five-year average.

[c] Tier 3 (OLM) was used for 1-hour modeling. Tier 1 (full conversion) was used for annual modeling.

[d] The modeled concentrations of $PM_{2.5}$ include secondary concentrations calculated using the MERP methodology as presented in Section 2.3 below.

[e] 24-hour $PM_{2.5}$ monitoring data from the Geismar, LA monitor (AQS ID 22-047-0075) has been found to be representative of ambient $PM_{2.5}$ concentrations at the facility location. An analysis of the data and similarities between the Facility area and monitor area are presented in the Protocol.

2.3 Secondary Formation of $PM_{2.5}$

Since NOx emissions from the facility are above the PSD significant impact threshold, secondary $PM_{2.5}$ formation was considered and the same methodology was followed as with the November 2022 AQIA. Table E-8 presents the contributions to $PM_{2.5}$ associated with facility NOx and SO_2 emissions. The most representative MERP values presented in Table E-8 did not change from the November 2022 AQIA; however, they are re-presented here since the secondary formation was re-calculated in this AQIA due to slight changes in the NO_x and SO_2 emissions totals.

Table E-8: Most Representative MERP Values								
Precursor	**Area**	**Emissions (tpy)**	**Height**	**Source**	**State**	**Parish**	**Daily $PM_{2.5}$ Max Impact ($\mu g/m^3$)**	**Annual $PM_{2.5}$ Max Impact ($\mu g/m^3$)**
NOx	CUS	500	90	10	LA	Orleans	0.12	0.002
SO_2	CUS	500	90	10	LA	Orleans	0.28	0.009

The daily maximum and annual $PM_{2.5}$ concentrations from NOx and SO_2 emissions associated with Source 10 are used to calculate the daily maximum and annual secondary $PM_{2.5}$ concentrations from the facility emissions using the following equations, respectively:

Daily maximum $PM_{2.5}$:

$$\frac{155.79\ TPY\ Proposed\ NO_x}{500\ TPY\ NO_x\ from\ Source\ 10} \cdot 0.118 \frac{\mu g}{m^3} + \frac{6.18\ TPY\ Proposed\ SO_2}{500\ TPY\ SO_2\ from\ source\ 10} \cdot 0.279 \frac{\mu g}{m^3} = 0.04\ \frac{\mu g}{m^3}$$

Annual $PM_{2.5}$:

$$\frac{155.79\ TPY\ Proposed\ NO_x}{500\ TPY\ NO_x\ from\ Source\ 10} \cdot 0.002 \frac{\mu g}{m^3} + \frac{6.18\ TPY\ Proposed\ SO_2}{500\ TPY\ SO_2\ from\ source\ 10} \cdot 0.009 \frac{\mu g}{m^3} = 0.001\ \frac{\mu g}{m^3}$$

The estimated total concentrations from primary and secondary $PM_{2.5}$ formation were then compared to the SIL as presented in Table E-9 below. If the sum of the primary and secondary $PM_{2.5}$ concentrations are below the SILs, then no additional calculations are required and the analysis is complete.

Table E-9: Total Primary and Secondary $PM_{2.5}$ Concentrations					
Standard	**Primary Concentration from Modeling ($\mu g/m^3$)**	**Secondary Concentration Using MERP ($\mu g/m^3$)**	**Total Concentration ($\mu g/m^3$)**	**SIL**	**> SIL?**
24-Hour $PM_{2.5}$	0.97	0.04	1.01	1.2	NO
Annual $PM_{2.5}$	0.11	0.001	0.11	0.2	NO

For both annual and 24-hour $PM_{2.5}$, the totals of the primary (modeled) $PM_{2.5}$ concentrations and the secondary concentrations are each below the respective SIL; therefore, no further analysis is required.

2.4 NAAQS Analysis

2.4.1 Significant Impact Area (SIA) Determination and Offsite Source Inventories

Since the result of the updated significant impact analysis for 1-hour NO_2 was over the respective SIL, an updated full impact analysis was performed for this standard.

The full impact NAAQS analysis requires the determination of the SIA, which is defined as a circle around the facility with a radius equal to the distance from the center of the facility to the furthest off-property receptor at which a modeled concentration exceeded the SIL in the screening analysis. Once the SIA has been determined, all sources that emit the pollutant of concern and fall inside this radius, plus a predetermined distance, are considered nearby sources and must be included in the model. As indicated in the approved protocol, the source inventory radius for inclusion of nearby sources is the SIA plus 20 km for major sources (i.e., facilities with PTE or actual emissions > 100 TPY for the pollutant under review), and the SIA plus 15 km for minor sources.

Following EPA guidance[4] and as approved in the Protocol, only those receptors within the SIA where the significant impact analysis' results exceed the relevant SIL were included in the full impact analysis. Only at those receptors could the facility potentially contribute significantly to a modeled NAAQS exceedance.

Table E-10 below summarizes the SIA and off-property inventory radius for the 1-hour NO_2 full impact analysis.

Table E-10: Updated NAAQS Significant Impact Areas (SIAs) and Nearby Source Inventory Radii

Pollutant	Averaging Period	Maximum Significant Impact Modeling Concentration (µg/m³)	Significant Impact Area (km)	Nearby Source Inventory Radius (km)
NO_2	1-hour	11.86	6.4	26.4 (Major) 21.4 (Minor)

Information regarding the sources inside the off-property inventory radius was obtained from the LDEQ's Emissions Reporting and Inventory Center (ERIC). For the full impact analysis, the permitted emission rates were gathered, along with the sources' stack parameters and locations. Any missing stack parameters were resolved by either verifying with the associated permits or permit applications, assuming similar sources' parameters, or applying the default LDEQ stack parameters.

[4] Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 National Ambient Air Quality Standard", March 1, 2011.

Attachment E-2 includes the source inventories that were included in the full impact NAAQS analysis.

2.4.2 NAAQS Analysis Results

For the NAAQS analysis, permitted emissions for nearby sources were included in the model, together with the proposed permitted emission rates for all KMe Facility sources. As previously noted, all KMe sources are treated as project sources for the purposes of the criteria pollutant analyses, so there were no additional on-site emissions to add. All additions to the 1-hour NO_2 NAAQS modeling were of offsite sources.

An offsite source inventory of permitted 1-hour NO_2 emissions was obtained from LDEQ's Emissions Reporting and Inventory Center (ERIC). The permitted emissions of sources within the nearby source inventory area radius were modeled for 1-hour NO_2 impacts, with the following exceptions:

- Sources permitted to operate 100 hours or fewer were excluded from the NAAQS analysis.
- Sources permitted to operate greater than 100 hours, but less than or equal to 500 hours, were included in the NAAQS analysis, but modeled with annualized emission rates.
- Sources at the Plains Marketing LP facility (AI 129733) were conservatively modeled at 125 percent of their PTE values as currently listed in ERIC. A portion of the Plains Terminal is used to load some of the methanol produced at the KMe facility. The modeled additional 25 percent above PTE is intended to account for potential secondary emissions from this facility that could arise from increased throughput at Plains as a result of the proposed KMe project, which is intended to achieve a 25 percent increase in design production rate.
- The tank cleaning source (EQT 0007) emission rate at the Shell Pipeline Company Acadian River Terminal (AI 200261) was adjusted to account for discrepancies between hourly and annual emission rates. (Details of the adjustment are included in Attachment E-2).
- Sources at the FG USA, LLC, Sunshine Project (AI 198351) to the north of the KMe facility, near the community of Welcome, were included at PTE emission rates. ERIC also includes permitted emission units for the originally proposed location of the FG USA, LLC facility to the south of the KMe facility. FG USA, LLC is no longer pursuing the location to the south of the KMe facility and proposed sources at that location were not included in the modeling.[5]

[5] While the LDEQ ERIC database indicates permitted emission sources for FG LA LLC (AI No. 198351) to the south of the Koch site, FG LA is no longer pursuing construction at this location. The FG LA Complex is instead currently proposed to be located to the north of the Koch facility. The northern location is included as an offsite source of NOx. Please refer to EDMS Doc. No. 10878178 for a description and site map of the FG LA Site.

The results of the full impact analysis were compared to the NAAQS as presented in Table E-11 below. An applicable background concentration was added from a representative monitoring station. As approved in the protocol, the 1-hour NO_2 background from the Dutchtown monitoring station (AQS ID 22-005-0004) was utilized.

Table E-11: Updated Full-Impact NAAQS Analysis Results

Pollutant	Averaging Period	Modeled Concentration ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)[a]	Modeled + Background ($\mu g/m^3$)	NAAQS ($\mu g/m^3$)	> NAAQS?
NO_2	1-hour	117.6	56.4	174.0	188	NO

Notes:

[a] The background concentration for 1-hour NO_2 was based on the 2019-2021 design values for the Dutchtown Station (AQS # 22-005-0004).

As the results above show, the updated 1-hour NO_2 modeling results plus its respective background concentration was below the NAAQS, thus no further NAAQS analysis was necessary for this standard.

All offsite inventories for the NAAQS analysis are included in Attachment E-2. A DVD containing all related modeling files for the NAAQS analysis is included in Attachment E-4.

2.5 Class II PSD Increment Consumption Analysis

The only pollutant and averaging period for which modeled impacts exceed the SIL is NO_2 for the 1-hour averaging period. There is no PSD increment associated with 1-hour NO_2. Therefore, a Class II PSD increment analysis was not required.

2.6 Ozone Impacts Analysis

An ozone impacts analysis has been performed because the total proposed facility emissions of VOC and NOx are greater than 100 tons per year (tpy). The analysis is updated here to reflect the revised annual totals of VOC and NOx emissions.

The ozone impacts analysis follows the procedures from the Guidance for Ozone and Fine Particulate Matter Permit Modeling, the same reference as used for $PM_{2.5}$ secondary formation. A Tier 1 approach, using a MERP analysis for ozone, is presented below. The same representative modeled hypothetical source as used in the $PM_{2.5}$ analysis - Central United States (CUS), Orleans Parish, Louisiana (Source 10) with a high stack height (90 m) was utilized for this evaluation. The 500 tpy emission rate is used for NOx; however, 500 tpy emission rates are not available for this hypothetical source for VOCs. Therefore, the 1000 tpy rate is used for VOCs instead. The MERP values for this source are listed in Table E-12 below. The calculations are adapted from Appendix A of the MERP Guidance.

Table E-12: Most Representative MERP Values							
Precursor	**Area**	**Emissions (tpy)**	**Height**	**Source**	**State**	**Parish**	**8h Ozone Max Impact (ppb)**
NOx	CUS	500	90	10	LA	Orleans	1.33
VOC	CUS	1000	90	10	LA	Orleans	0.38

The 8-hour ozone impacts from NOx and VOC emissions associated with Source 10 are used to calculate ozone impacts from the proposed projects using the following equation.

8-Hour Ozone:

$$\frac{155.79\ TPY\ Proposed\ NO_x}{500\ TPY\ NO_x\ from\ Source\ 10} \cdot 1.33\ ppb + \frac{174.89\ TPY\ Proposed\ VOC}{1000\ TPY\ VOC\ from\ source\ 10} \cdot 0.38\ ppb = 0.48\ ppb$$

The calculated increase in ozone concentrations from the project is below the 1 ppb SIL for 8-hour ozone; therefore, no further modeling of ozone is required.

3. ADDITIONAL IMPACT AND CLASS I ANALYSES

The November 2022 AQIA included additional analyses in accordance with PSD requirements in LAC 33:III.509.O and P. These analyses evaluated the potential air quality impacts projected for the area as a result of general commercial, residential, industrial and other growth associated with the KMe Facility as well as the potential for impairment to soils, vegetation, and visibility in the area surrounding the KMe Facility as a result of the KMe Facility and general commercial, residential, industrial and other growth associated with the KMe Facility. Analysis of the potential for impacts on nearby Class I areas was also performed. Consistent with EPA guidance, impacts from GHGs were not assessed as part of the additional impacts analysis and instead were addressed in the BACT analysis.

The revisions to emissions included as part of this update are minor and do not affect the overall conclusions regarding additional impacts. However, in some cases the additional impacts included some quantitative evaluations that have changed slightly as a result of the emissions revisions. These quantitative values are updated, as needed, in the following sections.

3.1 Growth Analysis

The changes in emissions included in the Addendum and this Updated AQIA do not affect the the growth analysis or conclusions provided in the November 2022 AQIA.

3.2 Soil and Vegetation Impacts

A discussion of soil and vegetation present in the area is provided in the November 2022 AQIA.

As noted in the November 2022 AQIA, adverse impacts to soils and vegetation are difficult to quantify. However, it can be expected that there will be no harmful effects as long as ambient concentrations of criteria pollutants stay below the secondary NAAQS.[6]

Table E-13 below shows updated impacts for the pollutants and averaging periods with secondary NAAQS. Note that the values in the table are the same as in the November 2022 AQIA because the differences in the results were within the rounding. Results show that the secondary NAAQS for all pollutants are not exceeded for any pollutant/averaging period evaluated in this AQIA.

[6] United States Environmental Protection Agency. New Source Review Workshop Manual: Prevention of Significant Deterioration and Nonattainment Area Permitting. Web. 1990. https://www.epa.gov/sites/production/files/2015-07/documents/1990wman.pdf

Table E-13: Updated PSD Significant Impact Analysis Results Versus Secondary NAAQS			
Pollutant	**Averaging Period**	**Maximum Modeled Concentration (µg/m³)**	**Federal Secondary NAAQS (µg/m³)**
NO_2	Annual	0.40	100
PM_{10}	24-hour	1.32	150
$PM_{2.5}$	Annual	0.11	15
	24-hour	1.01	35

Further, plant studies cited in air pollution literature[7] note that the injury threshold for plants due to exposure to NO_2 is 4,700 µg/m³ for at least four hours of continuous exposure. The AQIA demonstrates that NO_2, PM_{10}, $PM_{2.5}$, and SO_2 emissions from the KMe Facility will not adversely impact the soils or vegetation in the area surrounding the KMe Facility.

3.3 Local Visibility Impairment

The LDEQ requires an analysis be conducted of the impairment to visibility that could occur as a result of the project. The EPA screening model VISCREEN (version 1.01) was utilized to conduct a Level 1 analysis to predict whether the KMe Facility could result in an adverse impact on the visibility in the nearby area.

A more detailed discussion of the VISCREEN model and setup is provided in the November 2022 AQIA. The model inputs include the annual facility emissions of total particulates and NOx. As part of this update, the VISCREEN model was rerun with the updated emissions totals. Other parameters input to VISCREEN were the same as those used in the November 2022 AQIA.

The model conservatively evaluates whether a plume from a facility is perceptible to an observer under worst-case meteorological conditions from a known distance. The updated proposed facility-wide emissions of 76.76 tpy particulates and 155.79 tpy NOx were modeled. The Class II thresholds, which are applicable to the area immediately surrounding the KMe Facility, for plume perceptibility and contrast value are 6.0 and 0.15, respectively.[8] As summarized in Table E-14 below, the Level 1 analysis results show that the emissions from the KMe Facility would not yield significant impairment to local visibility, as the predicted delta E and Cp are significantly below the critical threshold values.

[7] Daniel A. Vallero. Fundamentals of Air Pollution. Fourth Edition. Elsevier Inc., San Diego, 2008. Print.

[8] "Air Dispersion Modeling Guidance for Oklahoma Air Quality Permits" Air Quality Division Oklahoma Department of Environmental Quality, June 2017, Section 4.4

Table E-14: Updated Level 1 VISCREEN Results						
Background	**Theta (θ)**	**Azimuth**	**Distance (km)**	**Alpha**	**Plume Perceptibility (ΔE) (Critical: 6.000)**	**Contrast Value (Cp) (Critical: 0.150)**
Sky	10	50	21.8	119	0.511	0.003
Sky	140	50	21.8	119	0.136	-0.003
Terrain	10	0	1.0	168	0.265	0.002
Terrain	140	0	1.0	168	0.074	0.002

The output of the VISCREEN modeling run is included in Attachment E-3.

3.4 Class I Area Impacts

As part of the November 2022 AQIA, a "Q/D" screening analysis was performed to determine whether a notification to the Federal Land Manager and analysis of Air Quality Related Values would be required. The updated sum total of 238.39 tpy of emissions for the pollutants of concern (155.79 tpy NOx + 6.18 tpy SO_2 + 76.38 tpy PM_{10} + 0.04 tpy H_2SO_4) were evaluated using the same methodology as the November 2022 AQIA. The resulting preliminary Q/D value is 1.29 for the Breton Wilderness Area.

Table E-15 below lists the approximate distance between the site and the Class I area, as well the updated "Q/D" screening ratio. Based on the result, i.e., Q/D is less than 10, no FLM notification or AQRV analysis is required.

Table E-15: Updated Class I Area Analysis		
Class I Area	**Approximate Distance to Class I Area (km)**	**Q/D Value [a] (tpy/km)**
Breton Wilderness Area	185	1.29
Notes: [a] Based on a Q value of 238.39 tpy for NOx, SO_2, PM_{10}, and H_2SO_4.		

3.5 Ozone Impacts Analysis

According to the provisions of 40 CFR 52.21(i)(5)(i)(f) and LAC 33:III.509.I.5.a, a permit application with a net increase of 100 tpy or more of VOC and/or NOx requires an ambient ozone impact analysis, including the gathering of ambient air quality data. Because proposed facility-wide emissions of VOC and NOx are each greater than 100 tpy, an ambient impact analysis was performed to demonstrate that the proposed facility-wide emissions will not cause or contribute to an exceedance of the NAAQS for ozone.

An analysis of expected ozone contributions using the Modeled Emission Rates for Precursors (MERP) technique was presented in Section 2.6. This analysis showed that expected facility contributions to ambient ozone concentrations are below the 1 ppb SIL established for ozone.

As further confirmed by the results of the analysis below, total proposed emissions from the KMe Facility will not significantly impact the current ozone levels in the ambient air of the nearby area.

The updated proposed permitted emissions for NOx and VOC for the KMe Facility are shown in Table E-16 below. Because the VOC and NOx emissions each exceed 100 tpy, an assessment of the facility's potential effects on regional ozone concentrations was conducted.

Table E-16: Updated NOx and VOC Increases

Pollutant	Emissions (tpy)
Nitrogen Oxides (NOx)	155.79
Volatile Organic Compounds (VOC)	174.89

The facility is located in St. James Parish, which is designated as unclassifiable/attainment with regard to the 2015 8-hour ozone standard.[9]

In the November 2022 AQIA, the latest available (2017) NOx and VOC emissions data[10] for the entire parish were gathered from the EPA's National Emissions Inventory. As of this writing, the 2017 edition is still the most recent available inventory. Emissions by sector were shown in the November 2022 AQIA. The parish totals were 7182.78 tpy for NOx and 8988.96 tpy for VOC.

When compared with the total emissions of NOx and VOC from all the sources in the parish, the proposed facility-wide emissions are equivalent to 2.2% of total NOx and 1.9% of total VOC emissions.

As noted in the November 2022 AQIA, the ozone design value from the nearest representative monitoring station (Convent Station, AQS Site ID: 22-093-0002) was obtained from the EPA's Air Trend Design Values website.[11] The monitoring station is located about 4.5 km east-northeast of the KMe Facility and featured a design value of 59 ppb, based on 2019-2021 data. As of the writing of this update, the full year of 2022 data are not yet available from the station, so 2019-2021 is still the most recent three-year period.

The monitoring data indicate that ozone concentrations in the area are currently below the 2015 8-hour ozone standard of 70 ppb.

As shown in this update, facility-wide emissions from the KMe Facility are not anticipated to impact the ozone standard in the area due to the following:

[9] The 2015 8-hour ozone standard is met when the three-year average of the fourth-highest daily-maximum 8-hour average ozone concentration is less than or equal to 0.070 ppm (70 ppb).

[10] https://www.epa.gov/air-emissions-inventories/2017-national-emissions-inventory-nei-data

[11] https://www.epa.gov/air-trends/air-quality-design-values

- The area surrounding the facility is in compliance with the NAAQS,
- ozone concentration increases due to the facility are estimated to be 0.48 ppb, below the 1 ppb SIL (see Section 2.6), and
- total emissions of VOC and NOx from the facility would be a small percentage of overall emissions of those substances within the parish.

4. LTAP MODELING ANALYSIS

In the November 2022 AQIA, an analysis of PTE increases of ammonia and methanol were presented. A Step 1 modeling analysis was performed in the November 2022 AQIA and demonstrated ambient concentrations resulting from PTE increases were below 7.5% of the Louisiana Ambient Air Standards for those pollutants.

The proposed hourly PTE rate increases of these two pollutants have not changed since the November 2022 AQIA submission. Therefore, the November 2022 modeling results for ammonia and methanol are still applicable to this update, and a modeling update for ammonia and methanol is not required.

Furthermore, a review of potential emissions increases for other LTAP species indicate they are below the Minimum Emission Rate for those pollutants, or that all or a portion of the emissions increases are the result of the combustion of Group 1 virgin fossil fuels and that any non-exempt portions do not exceed MERs. Therefore, emissions increases of species other than ammonia and methanol are exempt from the requirements of Louisiana Administrative Code Title 33, Chapter 51, per the special provisions provided in LAC 33:III:5105.B.3.

ATTACHMENT E-2
LISTS OF OFFSITE INVENTORIES

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
217703	Chico C St James Compressor Station	EQT 0001	Solar Centaur Turbine	21770301	706913.8	3317365.2	1.68	3.880	35.50	908.00	211.22	3.75
129733	Plains Marketing LP - St James Terminal	EQT 0057	Boiler No. 1	12973357	707527.7	3321215.4	3.61	1.712	35.50	331.13	54.51	2.00
129733	Plains Marketing LP - St James Terminal	EQT 0058	Boiler No. 2	12973358	707527.7	3321215.4	3.61	1.712	25.00	331.13	54.51	2.00
129733	Plains Marketing LP - St James Terminal	EQT 0072	Marine Vapor Combustion Unit 3	12973372	707527.7	3321215.4	3.61	14.787	60.00	1512.00	50.00	13.00
129733	Plains Marketing LP - St James Terminal	EQT 0073	Marine Vapor Combustion Unit 4	12973373	707527.7	3321215.4	3.61	19.800	75.00	1512.00	62.00	13.00
129733	Plains Marketing LP - St James Terminal	EQT 0039	Marine Vapor Combustion Unit 1	12973339	708593.0	3320750.0	5.43	24.250	50.00	1400.00	28.00	12.00
129733	Plains Marketing LP - St James Terminal	EQT 0041	Marine Vapor Combustion Unit 2	12973341	708593.0	3320750.0	5.43	22.038	50.00	1400.00	32.08	12.00
32803	College Point Field Production Facility	EQT 0021	Glycol Dehydration Boiler	3280321	709402.0	3318498.4	4.04	0.030	15.00	500.00	30.24	0.50
32803	College Point Field Production Facility	EQT 0022	Continuous Burn Flare	3280322	709402.0	3318498.4	4.04	1.270	35.00	1800.00	19.59	0.50
32803	College Point Field Production Facility	EQT 0030	Internal Combustion Engine	3280330	709402.0	3318498.4	4.04	0.750	5.00	1100.00	121.85	0.17
32798	ExxonMobil Pipeline Co - Sugarland Pipeline Station/Terminal	EQT 0030	Marine Vapor Combustion Unit (Dock 1)	3279830	707639.1	3322011.4	4.4	4.960	60.00	1735.00	54.50	10.63
200261	Shell Pipeline Company LP - Acadian River Terminal	EQT 0007	Tank Cleaning Operations	20026107	707969.6	3322256.0	4.84	10.350	40.00	1200.00	60.30	0.50
36538	NuStar Logistics LP - St James Terminal	EQT 0005	Tank Heater	3653805	707495.8	3323505.7	5.13	1.050	25.00	450.00	16.00	1.33
36538	NuStar Logistics LP - St James Terminal	EQT 0006	Tank Heater	3653806	707495.8	3323505.7	5.13	1.050	25.00	450.00	16.00	1.33
36538	NuStar Logistics LP - St James Terminal	EQT 0007	Tank Heater	3653807	707495.8	3323505.7	5.13	1.050	25.00	450.00	16.00	1.33
36538	NuStar Logistics LP - St James Terminal	EQT 0038	Vapor Combustion Unit 1	3653838	707495.8	3323505.7	5.13	8.940	50.00	1400.00	49.90	10.00
24266	ACBL Transportation Services LLC - Convent Facility	ARE 0003	Fiberglass Repair	2426603A	709466.9	3322277.9	5.43	0.001	3.28	ambient	0.00	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0001	Portable Water Pump, 3 hp	2426601A	709466.9	3322277.9	5.43	0.010	3.28	ambient	15.38	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0002	Portable Water Pump, 3 hp	2426602	709466.9	3322277.9	5.43	0.010	3.28	ambient	15.38	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0003	Portable Water Pump, 5.5 hp	2426603B	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0004	Portable Water Pump, 5.5 hp	2426604	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0005	Portable Water Pump, 5.5 hp	2426605	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0006	Portable Water Pump, 5.5 hp	2426606	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0007	Portable Water Pump, 5.5 hp	2426607	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0008	Portable Water Pump, 5.5 hp	2426608	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0009	Portable Water Pump, 5.5 hp	2426609	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0010	Portable Water Pump, 5.5 hp	2426610	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0011	Portable Water Pump, 5.5 hp	2426611	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0012	Portable Water Pump, 5.5 hp	2426612	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0013	Portable Water Pump, 5.5 hp	2426613	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0014	Portable Water Pump, 5.5 hp	2426614	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0015	Water Pump, 5 hp	2426615	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0016	Water Pump, 5 hp	2426616	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0017	Water Pump, 5 hp	2426617	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0018	Water Pump, 5 hp	2426618	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0019	Water Pump, 5 hp	2426619	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0020	Water Pump, 5 hp	2426620	709466.9	3322277.9	5.43	0.020	3.28	ambient	12.50	3.28
24266	ACBL Transportation Services LLC - Convent Facility	EQT 0022	Generator, 275 hp	2426622	709466.9	3322277.9	5.43	1.520	4.00	810.00	13.31	0.83
24266	ACBL Transportation Services LLC - Convent Facility	FUG 0001	Fugitive emissions	2426601B	709466.9	3322277.9	5.43	0.001	3.28	ambient	0.00	3.28
36538	NuStar Logistics LP - St James Terminal	EQT 0067	Vapor Combustion Unit 2	3653867	707888.9	3323975.1	5.4	43.680	60.00	1600.00	50.00	11.00
168206	College Point - St. James Field Production Facility #1	EQT 0001	Glycol Regenerator-Burner Stack	16820601	711405.0	3316710.9	1.67	0.020	12.00	1000.00	7.00	0.50
168206	College Point - St. James Field Production Facility #1	EQT 0003	Internal Combusion Engine - Exhaust Stack	16820603	711405.0	3316710.9	1.67	21.430	15.00	1000.00	186.00	0.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0003	Boiler 1	18807403	705774.4	3325032.6	2.81	3.500	200.00	237.00	97.00	4.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0005	Boiler 1 Startup/Shutdown	18807405	705774.4	3325032.6	2.81	0.084	200.00	237.00	105.00	4.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0004	Boiler 2	1880744A	705797.8	3325052.4	2.88	3.500	200.00	237.00	97.00	4.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0002	Reformer Vent Startup/Shutdown	1880742A	705539.0	3325168.4	2.16	0.078	213.25	194.00	37.00	12.00
188074	South LA Methanol LP - St. James Methanol Plant	SCN 0001	Reformer Vent - Scenario 1	18807401	705539.0	3325168.4	2.16	13.380	213.25	248.00	41.04	12.00
188074	South LA Methanol LP - St. James Methanol Plant	SCN 0002	Reformer Vent - Scenario 2	1880742B	705539.0	3325168.4	2.16	38.090	213.25	248.00	117.24	12.00
188074	South LA Methanol LP - St. James Methanol Plant	SCN 0004	Econamine Absorber Vent Scenario 1	1880744B	705467.1	3325170.5	2.08	24.710	213.25	115.00	69.25	9.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0005	Boiler 2 Startup/Shutdown	18807406	705596.2	3325236.8	2.23	0.084	200.00	237.00	105.00	5.00
23943	Ergon St James Inc - Vacherie Plant	EQT 0002	Heater	2394302	707303.5	3325105.3	4.18	3.290	20.00	1424.00	18.00	0.50
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0008	Process Flare	18807408	705459.3	3325359.7	2.42	12.820	213.25	1800.00	65.62	4.00
188074	South LA Methanol LP - St. James Methanol Plant	EQT 0010	Process Flare - Startup/Shutdown	18807410	705459.3	3325359.7	2.42	4.758	213.25	1800.00	65.62	4.00
23943	Ergon St James Inc - Vacherie Plant	EQT 0013	Heater	2394313	707684.5	3325215.7	6.01	2.470	50.00	1350.00	150.00	12.50
212862	Ergon Moda St James	EQT 0021	Loading apparatus	21286221	707738.5	3325301.1	6.4	0.600	3.28	ambient	0.00	3.28
23943	Ergon St James Inc - Vacherie Plant	EQT 0014	Reserve Vapor Control Unit	2394314	707686.1	3325322.3	6.38	0.020	50.00	1350.00	150.00	12.50
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0077	E-Train Start Up Burner	253277	709268.0	3324688.0	5.52	0.438	50.00	180.00	237.00	2.50
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0074	D Train Double Absorption H2SO4 Plant	253274	709393.0	3324728.0	4.68	11.250	160.00	170.00	63.00	6.00
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0075	D Train Start Up Burner	253275	709376.0	3324745.0	4.56	0.329	30.00	180.00	180.00	2.50
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0076	E Train Double Absorption H2SO4 Plant	253276	709281.0	3324841.0	5.28	20.000	164.00	180.00	40.60	9.75
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0067	A Train Single Absorption H2SO4 Plant	253267	709292.0	3324880.0	5.22	11.000	200.00	190.00	117.00	5.00
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0068	A Train Start Up Burner	253268	709342.0	3324874.0	5.13	0.329	34.00	200.00	183.00	2.50
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0109	No. 1A Packaged Steam Boiler	2532109	709412.0	3324876.0	5.2	14.900	60.00	300.00	48.00	6.00
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0125	Pump for 110-Acre Reservoir to East Cell	2532125	709479.6	3324898.4	4.96	0.300	6.00	750.00	358.00	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0126	Pump for Dunn's to West Cell	2532126	709479.6	3324898.4	4.96	0.300	6.00	750.00	358.00	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0127	Pump for East Cell to Return Ditch	2532127	709479.6	3324898.4	4.96	0.300	6.00	750.00	358.00	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0128	Pump for East Stormwater Pond to 1-Acre Pond	2532128	709479.6	3324898.4	4.96	0.300	6.00	750.00	358.00	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0129	Pump for Borrow Pit to 004	2532129	709479.6	3324898.4	4.96	0.300	6.00	750.00	358.00	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0130	Portable Lights for 110-Acre Reservoir to East Cell	2532130	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0131	Portable Lights for Stack 1-3 Decant	2532131	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0132	Air Compressor for UIC	2532132	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0133	Portable Lights for Rock Yard	2532133	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0134	Air Compressor for Rock Yard	2532134	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0135	Portable Lights for Slurry Tanks	2532135	709479.6	3324898.4	4.96	0.340	3.00	750.00	49.80	0.33
214264	CMT Liquids Terminal LLC	EQT 0039	Truck and Railcar Loading	21426439	708794.7	3325686.3	5.16	0.100	45.00	1400.00	0.32	8.00
214264	CMT Liquids Terminal LLC	EQT 0041	Boiler 1	21426441	708794.7	3325686.3	5.16	0.140	10.00	400.00	4.20	1.25
214264	CMT Liquids Terminal LLC	EQT 0042	Boiler 2	21426442	708794.7	3325686.3	5.16	0.140	10.00	400.00	4.20	1.25

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
214264	CMT Liquids Terminal LLC	EQT 0043	Temporary Flare	21426443	708794.7	3325686.3	5.16	4.280	3.28	1832.00	65.62	3.28
214264	CMT Liquids Terminal LLC	EQT 0040	Marine Loading	21426440	708791.8	3325840.2	4.81	0.100	60.00	1400.00	0.48	13.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0211	HDPE1 Ground Flare (Normal and MSS)	19835111	700971.0	3325339.0	2.03	21.600	8.00	1832.00	65.62	3.28
198351	FG LA LLC - Sunshine Project Early Works	EQT 0157	LLDPE Ground Flare (Normal and MSS)	19835157	700917.0	3325395.0	1.97	82.870	8.00	1831.73	65.61	3.28
198351	FG LA LLC - Sunshine Project Early Works	EQT 0336	HDPE2 Ground Flare (Normal and MSS)	19835136	700849.0	3325453.0	2.21	21.600	8.00	1832.00	65.62	3.28
198351	FG LA LLC - Sunshine Project Early Works	EQT 0298	HDPE1 Thermal Oxidizer B	19835198	700565.0	3325342.0	2.25	5.270	30.00	1500.00	220.00	2.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0297	HDPE1 Thermal Oxidizer A	19835197	700576.0	3325355.0	2.11	5.270	30.00	1500.00	220.00	2.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0258	PR Ground Flare (Normal and MSS)	19835158	699833.1	3324830.0	2.67	61.090	8.00	1832.00	65.62	3.28
198351	FG LA LLC - Sunshine Project Early Works	EQT 0260	PR Vapor Combustor A	19835160	699833.1	3324830.0	2.67	0.300	40.00	1000.00	2.50	3.67
198351	FG LA LLC - Sunshine Project Early Works	EQT 0262	PR Waste Heat Boiler	19835162	699833.1	3324830.0	2.67	14.410	151.00	300.00	36.00	20.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0265	LLDPE Thermal Oxidizer A (Normal and MSS)	19835165	700419.0	3325424.0	2.11	7.110	30.00	1500.00	220.00	2.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0265	PP Hot Oil Heater 1 and 2	19835148	700135.0	3325439.0	1.83	0.480	99.00	536.00	25.00	1.90
3544	Occidental Chemical - Convent Facility	EQT 0063	Boiler Common Stack	354463	709141.9	3326961.5	2.55	103.000	178.00	279.00	50.00	13.80
3544	Occidental Chemical - Convent Facility	EQT 0064	Blast Yard Compressor Engine	354464	709141.9	3326961.5	2.55	0.700	5.00	1076.00	182.00	0.33
198351	FG LA LLC - Sunshine Project Early Works	EQT 0150	PP Thermal Oxidizer	19835150	700059.0	3325499.0	1.85	16.390	66.00	356.00	50.00	2.50
198351	FG LA LLC - Sunshine Project Early Works	EQT 0339	HDPE2 Thermal Oxidizers B	19835139	700195.0	3325655.0	2.25	5.270	30.00	1500.00	220.00	2.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0338	HDPE2 Thermal Oxidizers A	19835138	700206.0	3325666.9	2.25	5.270	30.00	1500.00	220.00	2.00
3544	Occidental Chemical - Convent Facility	EQT 0060	Deutz Stormwater Circ. Pump	354460	710138.4	3326711.4	1.56	0.550	5.00	900.00	96.64	0.17
198351	FG LA LLC - Sunshine Project Early Works	EQT 0151	PP Ground Flare	19835151	700231.0	3325915.0	2.46	231.160	8.00	1832.00	65.62	3.28
2532	Mosaic Fertilizer LLC - Uncle Sam Plant	EQT 0088	Diesel-Fired Pump Engine on Gypsum Stack	253288	712057.1	3325422.7	1.05	7.070	10.00	850.00	80.60	0.50
3544	Occidental Chemical - Convent Facility	EQT 0059	Deutz BH Ditch Pump	354459	710465.8	3326681.6	1.03	0.520	5.00	900.00	91.29	0.17
3544	Occidental Chemical - Convent Facility	EQT 0011	Carbonation Tower	354411	709039.7	3327477.2	2.06	12.050	66.50	158.00	1.92	4.50
3544	Occidental Chemical - Convent Facility	EQT 0012	Carbonation Tower	354412	709046.4	3327502.3	2.2	12.050	66.50	158.00	1.92	4.50
198351	FG LA LLC - Sunshine Project Early Works	EQT 0314	UT2 Cogeneration Unit No. 1	19835114	700648.0	3326525.0	1.75	13.600	140.00	212.00	30.00	22.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0315	UT2 Cogeneration Unit No. 2	19835115	700618.0	3326549.0	3.56	13.600	140.00	212.00	30.00	22.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0288	UT1 Boiler 1	19835188	700578.0	3326646.0	2.39	18.000	180.00	194.00	66.00	10.00
198351	FG LA LLC - Sunshine Project Early Works	EQT 0312	UT2 Boiler	19835112	700507.0	3326702.0	2.39	18.000	180.00	194.00	66.00	10.00
9228	Zen-Noh Grain Corp	EQT 0118	Zimmerman VT 6055 Grain Dryer	922818	704781.8	3328272.1	6.25	4.700	54.00	95.00	3.75	3.28
182635	Schexnayder et al #1 & #2/2D	EQT 0119	Control Flare	18263519	698744.6	3325747.1	2.23	0.050	25.00	1832.00	65.61	0.50
182635	Schexnayder et al #1 & #2/2D	EQT 0120	Control Flare	18263520	698744.6	3325747.1	2.23	0.320	25.00	1832.00	65.61	0.50
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0147	350 HP Crusher	15784747	705938.1	3328877.9	4.29	4.300	3.28	ambient	0.00	3.28
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0071	Flare	15784771	706313.8	3329103.4	4.49	16.570	213.25	1834.73	65.62	0.22
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0069	Reactor vessel	15784769	706402.0	3329124.4	4.58	184.580	164.01	608.00	43.00	11.48
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0115	DRI Unit No. 1 Package Boiler No. 2 Flue Stack	15784715	706275.3	3329215.0	4.59	0.290	82.02	678.79	120.73	4.27
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0070	DRI Unit No. 1 Package Boiler No. 1 Flue Stack	15784770	706268.3	3329215.8	4.62	0.290	82.00	678.79	120.73	4.27
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0085	DRI Unit No. 2 Furnace Dust Collection	15784785	706519.4	3329209.8	4.52	1.240	98.00	166.87	68.21	4.27
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0088	DRI Unit No. 2 Hot Flare	15784788	706527.9	3329210.8	4.74	1.090	213.25	1834.73	65.62	0.22
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	RLP 0021	DRI Unit No. 2 Upper Seal Gas Vent	15784721	706555.2	3329216.9	3.98	0.750	213.25	325.53	32.81	18.04
90914	Hilcorp Energy Company - LaPice Production Facility	EQT 0009	Internal Combustion Engine-Exhaust Stack	9091409	697257.2	3325012.0	2.07	4.040	10.00	1000.00	54.00	0.50
90914	Hilcorp Energy Company - LaPice Production Facility	EQT 0040	Control Flare	9091440	697257.2	3325012.0	2.07	0.520	15.00	1500.00	974.00	0.31
90914	Hilcorp Energy Company - LaPice Production Facility	EQT 0041	750 MBTU/hr Glycol Regenerator-Burner Stack	9091441	697257.2	3325012.0	2.07	0.080	10.00	500.00	28.00	0.50
90914	Hilcorp Energy Company - LaPice Production Facility	EQT 0057	Internal Combustion Engine-Exhaust Stack	9091457	697257.2	3325012.0	2.07	5.910	10.00	884.00	644.00	0.50
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0086	DRI Unit No. 2 Reformer Main Flue Stack	15784786	706597.5	3329386.8	3.31	10.880	164.01	608.00	43.00	11.48
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0087	DRI Unit No. 2 Package Boiler Flue Stack	15784787	706608.5	3329401.7	2.47	0.940	82.00	513.55	85.16	4.27
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0153	Hopper Car Engine No. 1	15784753	706067.1	3329601.4	3.15	0.150	4.20	678.79	76.38	0.66
157847	Nucor Steel Louisiana LLC - Direct Reduced Iron Facility	EQT 0154	Hopper Car Engine No. 2	15784754	706140.3	3329910.1	3.62	0.150	4.20	678.79	76.38	0.66
2384	Americas Styrenics LLC - St James Plant	EQT 0044	GY 3312 - Flare Stack (SM-2 and EB Plant)	238444	700840.0	3329136.9	5.34	114.710	213.25	1832.00	65.60	4.50
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0002	Ingersoll Rand 48 KVS 1320 hp Engine	712902	705496.0	3330380.9	2.77	44.720	24.00	800.00	115.00	1.30
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0003	Ingersoll Rand 48 KVS 1320 hp Engine	712903	705496.0	3330380.9	2.77	44.720	24.00	800.00	115.00	1.30
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0004	Ingersoll Rand 48 KVS 1320 hp Engine	712904	705496.0	3330380.9	2.77	44.720	24.00	800.00	115.00	1.30
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0005	Ingersoll Rand 410 KVT 2500 hp Engine	712905	705496.0	3330380.9	2.77	119.040	26.00	800.00	58.00	1.90
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0006	Ingersoll Rand 410 KVT 2500 hp Engine	712906	705496.0	3330380.9	2.77	119.040	26.00	800.00	58.00	1.90
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0007	Ingersoll Rand 38 KVR 2750 hp Engine	712907	705496.0	3330380.9	2.77	159.120	25.90	800.00	46.00	2.10
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0008	Ingersoll Rand 410 KVR 3400 hp Engine	712908	705496.0	3330380.9	2.77	159.360	25.90	800.00	44.00	2.40
7129	Transcontinental Gas Pipe Line Co LLC - Station 63	EQT 0009	Ingersoll Rand 410 KVR 3400 hp Generator	712909	705496.0	3330380.9	2.77	159.360	25.90	800.00	44.00	2.40
2384	Americas Styrenics LLC - St James Plant	EQT 0051	Flare Stack (SM-1 Plant)	238451	700932.4	3329357.3	5.4	12.520	150.00	1300.00	79.00	1.30
2384	Americas Styrenics LLC - St James Plant	EQT 0042	HS 1102 - Catalyst Regenerator	238442	700751.6	3329275.5	5.38	1.560	115.00	388.00	17.50	2.60
2384	Americas Styrenics LLC - St James Plant	EQT 0035	HB 3500 - F-Boiler	238435	700520.9	3329181.4	4.56	21.000	75.00	289.00	78.00	6.34
17416	Bridgeline Holdings LP - Donaldsonville Compressor Station	EQT 0001	1800-hp Reciprocating Engine	1741601	698236.3	3327729.8	2.82	12.480	25.00	920.00	124.09	1.50
2384	Americas Styrenics LLC - St James Plant	EQT 0034	HS 4219/4201 - Steam Superheater	238434	700706.1	3329424.0	5.29	41.040	213.25	285.00	11.20	13.00
2384	Americas Styrenics LLC - St James Plant	EQT 0005	HS 2219/2201 - SM-1 Steam Superheater	238405	700864.2	3329568.6	5.52	18.900	158.67	395.00	16.50	8.25
2384	Americas Styrenics LLC - St James Plant	EQT 0040	HB 3302 E - 600# Boiler	238440	700802.2	3329592.1	5.58	40.680	55.00	355.00	42.80	7.00
2384	Americas Styrenics LLC - St James Plant	EQT 0052	600# Steam Boiler	238452	700826.0	3329607.9	5.34	29.380	55.00	306.00	48.40	6.25
2384	Americas Styrenics LLC - St James Plant	EQT 0054	150# Steam Boiler	238454	700820.4	3329623.2	5.26	33.120	55.00	365.00	39.10	5.50
2384	Americas Styrenics LLC - St James Plant	EQT 0003	150# Steam Boiler	238453	700814.9	3329629.3	5.4	33.080	55.00	365.00	39.10	5.50
2384	Americas Styrenics LLC - St James Plant	EQT 0002	150 # Steam Boiler	238402	700806.7	3329638.4	5.42	33.080	55.00	365.00	39.10	5.50
200116	Tampa Port Services LLC - Faustina Plant	EQT 0007	Utility Boiler #2	20011607	700696.7	3329641.5	5.25	16.320	56.00	340.00	38.30	5.00
200116	Tampa Port Services LLC - Faustina Plant	EQT 0024	Babcock & Wilcox NG-fired Rental Boiler	20011624	700884.1	3329796.0	5.79	4.710	3.28	ambient	0.00	3.28
200116	Tampa Port Services LLC - Faustina Plant	EQT 0025	Babcock & Wilcox NG-fired Rental Boiler	20011625	700884.1	3329796.0	5.79	4.710	3.28	ambient	0.00	3.28
190478	Millennium Galvanizing LLC	ARE 0003	Ash Recovery	1904783A	704517.3	3330904.0	2.08	0.040	3.28	ambient	0.00	3.28
190478	Millennium Galvanizing LLC	EQT 0003	Metal Zinc Recovery Unit	1904783B	704517.3	3330904.0	2.08	0.100	6.25	900.00	0.00	3.28
190478	Millennium Galvanizing LLC	EQT 0004	Burnng and Cutting	19047804	704517.3	3330904.0	2.08	0.030	3.28	ambient	0.00	3.28
190478	Millennium Galvanizing LLC	EQT 0005	Heat Recovery & Boiler	19047805	704517.3	3330904.0	2.08	1.260	3.28	ambient	0.00	3.28
190478	Millennium Galvanizing LLC	EQT 0006	Heat Recovery & Boiler	19047806	704517.3	3330904.0	2.08	1.260	3.28	ambient	0.00	3.28
190478	Millennium Galvanizing LLC	EQT 0007	Emergency Diesel-Fired Compressor	19047807	704517.3	3330904.0	2.08	0.021	9.00	1035.00	121.00	0.50
190478	Millennium Galvanizing LLC	EQT 0008	Emergency Diesel-Fired Compressor	19047808	704517.3	3330904.0	2.08	0.135	9.00	1035.00	121.00	0.50
200116	Tampa Port Services LLC - Faustina Plant	EQT 0001	Ammonia Plant Primary Reformer	20011601	700783.8	3330101.0	5.43	280.680	105.00	345.00	74.10	11.00

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
2425	Mosaic Fertilizer LLC - Faustina Plant	EQT 0097	Granulation A Train Tail Gas Scrubber	242597	700655.0	3330048.1	5.62	1.600	130.00	138.00	41.00	5.96
200116	Tampa Port Services LLC - Faustina Plant	EQT 0003	Ammonia Plant Startup Heater	20011603	700846.0	3330178.7	5.61	4.470	88.50	175.00	34.00	4.25
200116	Tampa Port Services LLC - Faustina Plant	EQT 0002	Ammonia Tank Flare	20011602	700935.0	3330216.9	5.48	45.200	136.00	1832.00	65.60	0.70
2425	Mosaic Fertilizer LLC - Faustina Plant	EQT 0099	Granulation C Train Tail Gas Scrubber	242599	700578.2	3330164.9	5.63	3.920	115.00	147.00	72.00	8.77
190478	Millennium Galvanizing LLC	EQT 0002	Galvanizing Furnance	19047802	704831.8	3331279.6	1.59	1.510	50.00	1200.00	16.70	3.28
2425	Mosaic Fertilizer LLC - Faustina Plant	EQT 0098	Granulation B Train Tail Gas Scrubber	242598	700613.9	3330206.4	5.7	1.600	130.00	146.00	44.00	5.63
39077	Coastal Bridge Co Inc	EQT 0001	Baghouse	3907701	705382.0	3331936.6	2.59	19.250	30.75	250.00	84.60	46.00
12806	ADM Grain River System Inc - St Elmo Facility	EQT 0020	Zimmerman Grain Dryer	1280620	718244.5	3323377.0	4.86	3.130	30.00	100.00	0.00	11.10
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0037	Storm Water Pump	921737	700386.9	3331359.7	5.82	0.194	3.28	ambient	0.00	3.28
32156	Kaneb Pipe Line Operating Partnership LP - White Castle Ammonia Pump Station	EQT 0002	Blowdown Flare	3215602	719435.7	3316156.9	1.73	0.023	10.00	600.00	580.00	0.50
32156	Kaneb Pipe Line Operating Partnership LP - White Castle Ammonia Pump Station	EQT 0001	Flare	3280501	719435.7	3316156.9	1.73	0.023	10.00	600.00	580.00	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0002	Asphalt Tank	921702	700620.6	3331628.3	6.23	0.710	35.00	450.00	16.73	1.16
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0005	Asphalt Tank	921705	700620.6	3331628.3	6.23	0.250	12.00	500.00	31.52	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0006	Asphalt Tank	921706	700620.6	3331628.3	6.23	0.250	12.00	450.00	31.52	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0007	Asphalt Tank	921707	700620.6	3331628.3	6.23	0.250	12.00	450.00	31.52	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0008	Asphalt Tank	921708	700620.6	3331628.3	6.23	0.250	34.00	500.00	31.52	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0009	Asphalt Tank	921709	700620.6	3331628.3	6.23	0.490	38.00	500.00	3.94	2.00
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0010	Roofing Asphalt Tank	921710	700620.6	3331628.3	6.23	0.310	34.00	500.00	39.03	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0011	Roofing Asphalt Tank	921711	700620.6	3331628.3	6.23	0.610	34.00	500.00	14.50	1.16
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0012	Polymer/Asphalt Blend Tank	921712	700620.6	3331628.3	6.23	0.250	34.00	500.00	7.88	1.00
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0013	Polymer/Asphalt Blend Tank	921713	700620.6	3331628.3	6.23	0.250	34.00	500.00	7.88	1.00
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0016	Asphalt Cement Tank	921716	700620.6	3331628.3	6.23	0.130	34.00	500.00	16.51	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0017	Roofing Asphalt Cement Tank	921717	700620.6	3331628.3	6.23	0.120	35.00	450.00	15.01	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0018	Roofing Asphalt Cement Tank	921718	700620.6	3331628.3	6.23	0.120	35.00	450.00	15.01	0.50
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0022	Boiler	921722	700620.6	3331628.3	6.23	0.490	16.00	400.00	8.91	1.30
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0023	New Boiler	921723	700620.6	3331628.3	6.23	0.940	16.00	400.00	16.97	1.30
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0024	Fulton Thermal Fluid Heater	921724	700620.6	3331628.3	6.23	0.940	25.00	650.00	10.89	1.66
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0025	Asphalt Heater	921725	700620.6	3331628.3	6.23	1.410	30.00	650.00	45.03	1.00
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0026	Direct Flame Afterburner	921726	700620.6	3331628.3	6.23	2.010	31.00	1350.00	25.46	1.33
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0038	Asphalt Tank	921738	700620.6	3331628.3	6.23	0.440	38.00	500.00	3.94	2.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0034	Boiler No. 2	271934	702842.7	3332340.9	2.35	45.670	150.00	421.00	12.08	10.78
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0035	Boiler No. 3	271935	702817.7	3332391.5	2.87	45.670	150.00	421.00	12.08	10.78
9217	Valero Marketing & Supply Co - Donaldsonville Asphalt Terminal	EQT 0046	Propane Torches	921746	700618.6	3331725.5	6.36	0.010	3.28	ambient	0.00	3.28
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0032	FCCU HP Fuel Gas Compressor Turbine	271932A	702690.1	3332412.4	3.26	46.500	184.00	439.00	24.00	16.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0069	FCCU Feed Heater	271969	702690.1	3332412.4	3.26	18.740	184.00	439.00	24.00	16.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0070	FCCU Recycle Heater	271970	702690.1	3332412.4	3.26	17.220	184.00	439.00	24.00	16.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0065	ISOM Reactor Feed Furnace	271965	702868.6	3332452.3	2.78	2.060	146.00	540.00	17.00	3.90
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0037	Boiler	271937	702691.8	3332420.2	3.32	45.600	150.00	271.00	31.00	7.20
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0033	Boiler No. 1	271933	702719.4	3332439.6	3.21	45.670	150.00	421.00	12.08	10.78
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0027	TGTU No. 1 Incinerator Stack	271927	703122.6	3332533.5	3.17	3.500	200.00	626.00	22.40	5.25
120995	Air Products & Chemicals Inc - Convent Hydrogen Plant	EQT 0001	Hydrogen Reformer Furnace Flue Gas Vent	12099501	703701.4	3332633.6	2.58	38.890	100.00	300.00	33.00	12.50
120995	Air Products & Chemicals Inc - Convent Hydrogen Plant	EQT 0004	Hydrogen Plant Flare	12099504	703701.4	3332633.6	2.58	77.110	100.00	100.00	0.25	2.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0029	VPS-1 Atmospheric Heater	271929	702601.8	3332440.7	3.09	18.490	146.00	935.00	30.80	9.30
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0062	VPS-2 Atmospheric Tower Feed Heater	271962	702851.4	3332499.6	3.08	30.500	213.00	300.00	36.00	7.20
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0063	VPS-2 Vacuum Heater	271963	702851.4	3332499.6	3.08	11.290	213.25	300.00	36.00	7.10
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0055	TGTU No. 2 Incinerator Stack	271955	703084.6	3332559.4	3.08	2.250	200.00	350.00	25.80	4.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0061	TGTU No. 5 Incinerator Stack	271961	702930.8	3332529.9	2.9	2.250	200.00	350.00	25.80	4.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0036	Boiler No. 4	271936	702775.2	3332500.5	2.69	32.000	56.00	404.00	26.00	7.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0060	Gas Oil Heater	271960	702640.8	3332471.4	3	6.370	154.00	738.00	42.00	7.60
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0031	VPS-1 Vacuum Heater	271931A	702592.8	3332460.5	2.99	8.650	121.00	900.00	10.00	6.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0038	HTU-1 HSR Charge Heater	271938	703230.8	3332594.7	3.11	7.380	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0039	HTU-1 Kerosene Charge Heater	271939	703230.8	3332594.7	3.11	5.920	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0040	HTU-1 HSR Reboiler	271940	703230.8	3332594.7	3.11	9.450	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0041	HTU-1 Kerosene Reboiler	271941	703230.8	3332594.7	3.11	8.910	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0042	CRU Charge Heater	271942	703230.8	3332594.7	3.11	15.620	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0043	CRU Inter Heater No. 1	271943	703230.8	3332594.7	3.11	16.380	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0044	CRU Inter Heater No. 3	271944	703230.8	3332594.7	3.11	6.210	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0045	CRU Inter Heater No. 2	271945	703230.8	3332594.7	3.11	6.980	103.97	654.57	40.99	4.36
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0046	CRU-HTU Common Stack	271946	703230.8	3332594.7	3.11	65.970	119.00	400.00	20.00	15.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0047	CRU Recycle Compressor Gas Turbine	271947	703230.8	3332594.7	3.11	14.850	35.50	908.00	211.22	3.75
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0030	VPS-1 Atmospheric Heater	271930	702602.3	3332464.0	2.75	18.480	146.00	935.00	30.80	9.30
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0056	TGTU No. 3 Incinerator Stack	271956	702904.6	3332540.5	3.05	2.250	200.00	350.00	25.80	4.00
24076	Equilon Enterprises LLC - Convent Terminal	EQT 0017	Backup Vapor Combustion Unit	2407617	701813.4	3332271.0	4.45	2.140	50.00	400.00	1.52	9.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0053	H-Oil Vacuum Tower Heater	271953	703445.4	3332650.3	3	13.550	162.00	750.00	40.00	2.30
214907	Linde Inc - Convent Plant	EQT 0001	Steam Methane Reformer	21490701	704907.3	3332833.4	1.57	144.450	100.00	318.00	78.93	10.66
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0071	FCCU Wet Gas Scrubber Stack	271971	702715.0	3332522.6	3.08	127.000	199.00	163.00	48.00	12.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0049	H-Oil Train 100 Feed Heater	271949	703376.7	3332663.5	2.57	15.880	175.00	320.00	22.00	5.60
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0050	H-Oil Train 100 Hydrogen Heater	271950	703376.7	3332663.5	2.57	8.510	175.00	320.00	22.60	5.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0051	H-Oil Train 200 Feed Heater	271951	703402.3	3332683.9	2.62	15.880	175.00	320.00	22.00	5.60
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0052	H-Oil Train 200 Hydrogen Heater	271952	703402.3	3332683.9	2.62	7.850	175.00	320.00	22.60	5.50
214907	Linde Inc - Convent Plant	EQT 0002	Flare	21490702	703933.5	3332781.3	2.14	73.170	195.00	1832.00	65.61	4.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0054	H-Oil Transport Oil Heater	271954	703388.5	3332700.3	2.45	0.840	165.00	665.00	22.00	2.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0057	TGTU No. 4 Incinerator Stack	271957	702922.6	3332611.8	2.95	2.250	200.00	350.00	25.80	4.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0078	HTU-2 Train 2 Charge Heater	271978	703103.0	3332658.4	2.4	2.880	114.00	240.00	58.00	2.30
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0077	HTU-2 Train 1 Charge Heater	271977	703032.5	3332664.9	2.83	2.430	117.00	250.00	51.00	3.60
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0079	HTU-2 Stripper Reboiler	271979	703032.5	3332664.9	2.83	4.360	117.00	250.00	50.00	3.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0080	HTU-3 Reactor Feed Heater	271980	703474.4	3332748.4	2.4	5.880	190.00	300.00	49.00	4.90

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0081	HTU-3 Stripper Reboiler Heater	271981	703474.4	3332748.4	2.4	7.900	190.00	300.00	50.00	4.75
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0066	HDS-1 Heater	271966	703655.7	3332798.4	1.98	5.600	150.00	730.00	25.50	5.83
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	FUG 0022	Merchant Nitric Acid Distribution System Fugitives	241622	697464.5	3330494.6	5.06	0.230	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0288	Merchant Nitric Acid Tanks Common Scrubber Stack	241688	697406.0	3330454.0	4.76	0.330	72.00	120.00	0.27	1.33
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0187	No. 4 Nitric Acid Plant Tank	241687	697402.8	3330484.3	4.79	0.260	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0155	No. 6 Ammonia Plant Reformer	241655	697713.3	3330706.9	4.84	2334.090	164.00	270.00	36.84	15.40
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0308	Ammonia Plant No. 6 Diesel Generator	241608E	697667.0	3330700.7	4.84	1.220	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0083	No. 4 Ammonia Plant Reformer	241683	697154.1	3330344.3	4.55	1061.930	121.00	310.00	35.00	13.00
98049	Hester Field Facility	EQT 0012	Internal Combustion Engine Exhaust Stack	9804912	717840.4	3326832.9	1.21	1.420	10.00	1000.00	18.00	0.50
98049	Hester Field Facility	EQT 0005	Internal Combustion Engine Exhaust Stack	9804905	717884.1	3326817.1	0.51	0.146	10.00	1000.00	34.00	0.50
98049	Hester Field Facility	EQT 0007	Internal Combustion Engine Exhaust Stack	9804907	717884.1	3326817.1	0.51	0.310	10.00	700.00	19.10	0.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0185	No. 4 Nitric Acid Plant Absorber Stack	241685	697393.4	3330565.0	5.03	849.750	192.00	271.00	81.50	6.67
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0024	No. 4 Ammonia Plant Hot Vent	241624	697125.1	3330386.3	4.65	0.020	161.00	1832.00	65.60	0.95
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0156	No. 6 Ammonia Plant Hot Vent	241656	697573.8	3330727.6	4.88	0.060	213.25	1832.00	65.60	26.06
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0157	No. 6 Ammonia Plant Process Gas Vent	241657	697573.8	3330727.6	4.88	0.060	213.25	1832.00	65.60	30.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0160	Nos. 5 and 6 Ammonia Plants Thermal Oxidizer	241660	697573.8	3330727.5	4.88	4.240	213.25	105.00	133.30	4.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0177	No. 5 Urea/ No. 3 UAN Ammonia Flare	241677F	697573.8	3330727.6	4.88	0.070	213.25	1832.00	65.60	0.48
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0019	No. 4 Ammonia Plant Process Gas Vent	241619	697050.1	3330359.3	4.56	0.020	111.00	1832.00	65.60	1.30
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0184	No. 2 Urea Boilers Common Stack	241684V	696808.6	3330175.3	3.86	72.880	100.00	300.00	38.50	7.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0158	No. 6 Ammonia Plant Start-up Heater	241658H	697581.9	3330759.6	4.88	0.078	98.00	1292.00	18.29	3.35
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0166	No. 6 Ammonia Plant Boiler	241666	697470.0	3330700.4	4.87	61.240	131.00	300.00	55.00	6.83
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0159	No. 6 Ammonia Plant Ammonia Storage Tank Flare	241659F	697510.9	3330736.5	4.87	0.260	120.00	1832.00	65.60	0.86
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0295	No. 5 Urea Plant Diesel Air Compressor No. 1	241695	697350.1	3330629.4	4.92	1.830	7.30	863.00	231.00	0.42
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0296	No. 5 Urea Plant Diesel Air Compressor No. 2	241696	697350.1	3330629.4	4.92	1.830	7.30	863.00	231.00	0.42
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0175	No. 5 Urea Boiler	241675	697300.8	3330631.6	4.85	61.240	131.00	300.00	55.00	6.83
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0016	No. 3 Ammonia Plant Process Gas Vent	241616	697105.1	3330492.3	4.53	0.020	111.00	1832.00	65.60	1.30
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0059	Complex II Ammonia Pipeline Flare	241659	697030.1	3330438.3	4.53	0.290	20.00	1832.00	65.60	0.52
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0018	No. 3 Ammonia Plant Hot Vent	241618A	697032.1	3330474.3	4.6	0.020	161.00	1832.00	65.60	0.95
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0091	API-2 Diesel Pump	271991	703317.1	3333176.9	0.1	1.130	10.00	840.00	149.00	0.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0058	No. 3 Ammonia Plant Reformer	241658R	697001.1	3330508.3	4.6	1050.330	121.00	310.00	35.00	13.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0073	Refinery Flare No. 1	271973	702732.7	3333184.9	2.88	176.490	213.25	1832.00	65.60	3.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0017	No. 3 Urea Boiler	241617	697081.1	3330675.3	4.63	12.280	100.00	250.00	37.00	3.40
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0072	Refinery Flare No. 2	271972	702938.0	3333238.6	2.88	176.490	213.25	1832.00	65.60	3.00
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0028	Flare No. 5 - Dock No. 1 & 2 Vapor Recovery	271928	701400.3	3332874.4	5.39	21.030	62.00	1832.00	66.00	8.30
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0076	No. 2 Nitric Acid Plant Tank	241676	697072.1	3330758.3	4.69	0.020	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0147	No. 5 Ammonia South Storage Tank Flare	241647F	697372.7	3330984.3	4.5	0.310	97.20	1832.00	65.60	0.87
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0067	No. 2 Nitric Acid Plant Absorber Stack	241667	697063.1	3330766.3	4.57	206.250	199.50	225.00	67.00	4.00
195198	T Kliebert et al #1 Wellsite Facility - Hester Field	EQT 0002	Internal Combustion Engine-Exhaust Stack	19519802	718229.3	3326977.9	1.32	4.040	10.00	1000.00	53.90	0.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0075	Refinery Flare No. 4	271975	703757.1	3333467.8	1.81	176.490	213.25	1832.00	65.60	3.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0069	No. 1 Nitric Acid Drip Acid Tank (D503)	241669	696982.1	3330751.3	4.74	0.001	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0047	No. 1 Nitric Acid Plant Absorber Stack	241647	696985.1	3330757.3	4.75	272.260	202.00	230.00	51.00	4.46
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0071	Complex II Urea/UAN Ammonia Pipeline Flare	241671	696920.1	3330716.3	3.89	0.100	20.00	1832.00	65.60	0.52
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0051	No. 1 Nitric Acid Plant Tank	241651	696965.1	3330754.3	4.71	0.020	3.28	ambient	0.00	3.28
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0074	Refinery Flare No. 3	271974	702808.2	3333430.3	3	176.490	213.25	1832.00	65.60	3.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0131	No. 5 Ammonia Plant Reformer	241631R	697408.9	3331177.3	5.36	1306.340	122.80	385.00	48.95	13.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0292	No. 5 Ammonia Plant Diesel Air Compressor	241692	697383.4	3331161.3	5.36	0.094	7.30	863.00	230.76	0.42
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0137	No. 5 Ammonia Plant Hot Vent	241637	697375.1	3331207.0	5.24	0.020	148.50	1832.00	65.60	6.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0281	New No. 4 Urea Boiler	241681	696567.3	3330636.0	3.64	45.000	131.00	300.00	52.00	6.83
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0038	No. 4 Urea/ No. 2 UAN Ammonia Pipeline Flare	241638	696687.1	3330746.3	5.11	0.070	100.00	1832.00	65.60	0.48
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0135	No. 5 Ammonia Plant Process Gas Vent	241635	697301.7	3331207.5	5.32	0.050	100.90	1832.00	65.60	5.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0305	No. 4 Urea Plant Diesel Air Compressor No. 1	241605	696563.2	3330685.8	4.39	1.830	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0306	No. 4 Urea Plant Diesel Air Compressor No. 2	241606	696563.2	3330685.8	4.39	0.200	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0021	No. 4 Urea Boiler (Phase II)	241621	696561.1	3330690.3	4.43	40.690	118.00	324.00	64.00	6.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0291	No. 4 Urea Boiler (Phase I)	241691	696561.1	3330690.3	4.43	40.690	118.00	324.00	64.00	6.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0249	Complex II Ammonia Storage Tank Flare	241649	696751.2	3330839.5	4.12	0.260	138.00	1832.00	65.60	0.86
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0231	New Stormwater Pond Pump Engine (South)	271931	703933.9	3333805.9	5.39	10.850	7.00	840.00	149.00	0.50
2719	Equilon Enterprises LLC dba Shell Oil Products US - Convent Refinery	EQT 0232	New Stormwater Pond Pump Engine (North)	271932	703932.9	3333808.1	5.39	10.850	7.00	840.00	149.00	0.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0068	No. 3 Nitric Acid Plant Absorber Stack	241668	696561.1	3330808.3	4.5	513.700	184.00	302.00	85.61	5.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0077	No. 3 Nitric Acid Plant Tank	241677	696544.1	3330843.3	4.36	0.010	19.00	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0246	No. 5 Ammonia North Storage Tank Flare	241646	697220.9	3331426.6	5.68	0.310	138.00	1832.00	65.60	0.87
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0118	No. 1 Urea Boiler	241618	696860.0	3331199.0	5.1	31.500	100.00	220.00	44.24	6.00
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0031	Complex I Ammonia Pipeline Flare	241631	696853.1	3331288.3	5.1	0.100	20.00	1832.00	65.60	0.52
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0023	No. 2 Ammonia Plant Process Gas Vent	241623	696933.1	3331372.3	6.02	0.020	108.00	1832.00	65.60	1.20
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0010	No. 2 Ammonia Plant Hot Vent	241610B	696858.1	3331345.3	6.1	0.020	160.00	1832.00	65.60	0.87
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0011	No. 2 Ammonia Plant Reformer	241611	696837.1	3331376.3	6.07	1041.680	105.00	250.00	50.00	10.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0303	Complex I Ammonia Diesel Air Compressor No. 1	241603A	696885.0	3331427.4	5.91	1.830	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0304	Complex I Ammonia Diesel Air Compressor No. 2	241604	696885.0	3331427.4	5.91	1.830	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0307	Diesel Generator	241607	696885.0	3331427.4	5.91	1.910	3.28	ambient	0.00	3.28
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0008	No. 1 Ammonia Plant Process Gas Vent	241608	696894.1	3331496.3	5.75	0.020	108.00	1832.00	65.60	1.20
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	RLP 0009	No. 1 Ammonia Plant Hot Vent	241609	696820.1	3331469.3	5.84	0.020	160.00	1832.00	65.60	0.87
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0010	No. 1 Ammonia Plant Reformer	241610	696798.1	3331500.3	5.78	1091.970	105.00	250.00	50.00	10.50
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0065	Complex I Ammonia Storage Tank Flare Phase I	241665	696770.1	3331592.3	5.69	0.070	130.00	1832.00	65.60	0.48
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0293	Complex I Ammonia Storage Tank Flare (2301F) Phase II	241693	696762.9	3331595.3	5.7	0.260	126.00	1832.00	65.60	0.86
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	EQT 0294	Complex I Ammonia Storage Tank Flare (2302F) Phase II	241694	696762.7	3331604.5	5.71	0.260	126.00	1832.00	65.60	0.86
24890	Assumption Parish Police Jury - Ezekiel Street Transfer Site	EQT 0001	Air Curtain Destructor	2489001	690087.6	3317473.1	3.73	20.780	3.28	932.00	0.00	3.28
24890	Assumption Parish Police Jury - Ezekiel Street Transfer Site	EQT 0002	Air Curtain Destructor Diesel Engine	2489002	690087.6	3317473.1	3.73	2.790	4.00	1000.00	150.00	0.10
67572	Veolia North America Regeneration Services LLC - Veolia Burnside Plant	EQT 0032	Package Boiler	6757232	701182.4	3334289.3	5.22	1.000	32.00	425.00	13.90	1.50

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
67572	Veolia North America Regeneration Services LLC - Veolia Burnside Plant	EQT 0033	Process Air Preheater	6757233	701182.4	3334289.3	5.22	1.090	32.00	425.00	13.90	1.50
67572	Veolia North America Regeneration Services LLC - Veolia Burnside Plant	EQT 0030	Sulfuric Acid Plant	6757230	701219.4	3334317.7	5.2	27.200	200.00	175.00	38.80	8.00
67572	Veolia North America Regeneration Services LLC - Veolia Burnside Plant	EQT 0036	Vapor Combustion Unit	6757236	701111.7	3334349.5	5.13	0.820	30.00	1500.00	30.20	5.50
159541	Port of South Louisiana - Tank Farm	EQT 0065	Thermal Oxidizer	15954165	721559.9	3323394.9	6.81	470.570	45.27	896.80	143.45	3.05
159541	Port of South Louisiana - Tank Farm	EQT 0070	Diesel Engine No. 1	15954170	721559.9	3323394.9	6.81	6.200	5.00	700.00	250.47	0.55
159541	Port of South Louisiana - Tank Farm	EQT 0067	Boiler No. 1	15954167	722011.9	3322393.6	2.69	4.750	83.50	425.00	54.51	6.47
159541	Port of South Louisiana - Tank Farm	EQT 0068	Boiler No. 2	15954168	722054.0	3322416.6	2.29	4.750	83.50	425.00	54.51	6.47
159541	Port of South Louisiana - Tank Farm	EQT 0069	Boiler No. 3	15954169	722127.9	3322463.1	2.4	4.750	83.50	425.00	54.51	6.47
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0008	ESP for Kiln #1 and half Kiln #2	342008	700568.0	3335537.0	6.13	78.320	116.00	529.00	49.07	8.00
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0009	Baghouse for Hydrate Dryer	342009	700568.0	3335537.0	6.13	0.600	90.42	212.00	49.00	2.30
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0013	ESP for Kiln #3 and half of Kiln #2	342013	700568.0	3335537.0	6.13	78.320	116.00	529.00	49.07	8.00
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0017	Boiler #2	342017	700568.0	3335537.0	6.13	31.240	45.00	432.00	41.31	5.00
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0018	Boiler #3	342018	700568.0	3335537.0	6.13	31.240	45.00	432.00	41.31	5.00
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0020	Boiler #4	342020	700568.0	3335537.0	6.13	31.240	45.00	432.00	41.31	5.00
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0026	Boiler #5	342026	700568.0	3335537.0	6.13	6.790	24.00	556.00	48.06	3.80
3420	LAlumina LLC - Burnside Alumina Plant	EQT 0027	Boiler #6	342027	700568.0	3335537.0	6.13	6.790	24.00	556.00	48.06	3.80
154138	Supreme Ornamental Iron Works LLC	EQT 0002	Diesel Compressor	15413802	696813.0	3303699.0	4.8	0.870	8.00	801.79	250.47	0.33
44280	Golden Leaf Energy LLC - Power Plant #1	EQT 0001	Bagasse Boiler	4428001	688506.7	3315157.6	4.4	7.440	30.00	160.00	20.94	3.00
4803	BFI Waste Systems of Louisiana LLC - Colonial Landfill	EQT 0002	Enclosed Flare	480302	706441.0	3337187.0	2.98	8.070	40.00	1832.00	65.61	10.00
136758	J B Levert #2 Facility	EQT 0009	Internal combustion engine	13675809	703939.3	3300364.7	4.29	7.850	15.50	1238.00	205.00	0.50
136758	J B Levert #2 Facility	EQT 0005	Glycol dehydration reboiler	13675805	703946.6	3300347.4	4.18	0.200	27.50	600.00	7.00	0.83
136758	J B Levert #2 Facility	EQT 0006	Glycol dehydration still column	13675806	703946.6	3300347.4	4.18	0.001	8.00	100.00	0.00	0.17
136758	J B Levert #2 Facility	EQT 0008	Glycol dehydration reboiler	13675808	703946.6	3300347.4	4.18	0.010	11.00	700.00	265.00	0.29
154502	Gator LLC - Gator Debris Landfill and Recycling	EQT 0001	ACD Unit Diesel Engine	15450201	704923.0	3337596.0	1.1	0.900	3.28	ambient	0.00	3.28
154502	Gator LLC - Gator Debris Landfill and Recycling	FUG 0001	ACD Fugitives	1545020A	704923.0	3337596.0	1.1	0.770	3.28	ambient	0.00	3.28
88164	Enterprise Products Operating LLC - Sorrento Loading Facility	EQT 0003	Vertical Flare	8816403	712795.5	3336480.0	0.37	1.960	25.00	1832.00	65.61	0.50
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0025	Boiler No. 1	16528625	723494.9	3326711.0	3.51	16.460	60.00	148.00	10.32	5.33
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0026	Boiler No. 2	16528626	723494.9	3326711.0	3.51	16.460	60.00	148.00	10.32	5.33
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0027	Boiler No. 4	16528627	723494.9	3326711.0	3.51	19.560	60.00	148.00	16.10	5.33
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0028	Boiler No. 5	16528628	723494.9	3326711.0	3.51	9.780	60.00	148.00	16.10	5.33
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0056	Firewater Pump Engine	16528656	723494.9	3326711.0	3.51	0.075	10.00	934.00	489.00	0.25
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0057	Diesel Engine 1	16528657	723494.9	3326711.0	3.51	1.520	6.00	900.00	60.00	0.25
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0058	Diesel Engine 2	16528658	723494.9	3326711.0	3.51	1.530	6.00	900.00	60.00	0.25
165286	Louisiana Sugar Refining LLC - Louisiana Sugar Refining Gramercy	EQT 0070	Boiler No. 6	16528670	723494.9	3326711.0	3.51	1.160	50.00	291.00	57.00	3.50
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0025	Engine Testing	1396125	709878.6	3299556.0	3.27	8.810	15.22	801.79	250.47	0.55
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0020	Plant 3 Dryoff Oven	1396120	709987.2	3299496.5	3.25	0.140	40.00	450.00	17.00	1.17
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0019	Plant 3 Bake-Off Oven	1396119	709987.7	3299465.7	3.21	0.190	40.00	500.00	0.00	0.80
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0048	Plant 3 Washer Heater	1396148	709987.7	3299465.7	3.21	0.250	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0049	Plant 3 Washer Heater Stage 3	1396149	709987.7	3299465.7	3.21	0.150	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0050	Plant 3 Boiler North	1396150	709987.7	3299465.7	3.21	0.150	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0051	Plant 3 Boiler South	1396151	709987.7	3299465.7	3.21	0.150	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0037	Lincoln Electric Prism 4 Baghouse	1396137	709858.1	3299216.9	3.57	1.750	14.00	ambient	124.38	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0038	Lincoln Electric Prism 8 Baghouse	1396138	709858.1	3299216.9	3.57	1.750	11.00	ambient	218.91	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0039	Camfil GSHV Dust Collector	1396139	709858.1	3299216.9	3.57	1.750	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0040	Camfil Farr Gold Series Dust Collector 1	1396140	709858.1	3299216.9	3.57	1.750	22.00	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0041	Camfil Farr Gold Series Dust Collector 2	1396141	709858.1	3299216.9	3.57	1.750	22.00	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0042	Plant 2 Gas-Fired Make-up Air Heater 1	1396142	709858.1	3299216.9	3.57	0.320	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0043	Plant 2 Gas-Fired Make-up Air Heater 2	1396143	709858.1	3299216.9	3.57	0.320	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0044	Plant 2 Gas-Fired Make-up Air Heater 3	1396144	709858.1	3299216.9	3.57	0.320	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0045	Plant 2 Gas-Fired Paint Wash System Boiler 1	1396145	709858.1	3299216.9	3.57	0.200	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0046	Plant 2 Gas-Fired Paint Wash System Boiler 2	1396146	709858.1	3299216.9	3.57	0.200	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0052	Plant 2 Gas-Fired Paint Wash System Boiler 3	1396152	709858.1	3299216.9	3.57	0.200	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0034	Pyro-Strip Fluidized Bed System with Cyclone	1396134	709778.2	3299184.6	3.46	0.110	3.28	ambient	0.00	3.28
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0031	Plant 2 Bake-off Oven	1396131	709779.3	3299122.9	3.46	0.190	40.00	500.00	25.00	1.33
13961	John Deere Thibodaux Inc - Thibodaux Facility	EQT 0032	Plant 2 Dryoff Oven	1396132	709806.1	3299123.4	3.35	0.140	40.00	450.00	17.00	1.17
32804	Rain CII Carbon LLC - Gramercy Coke Plant	EQT 0001	Cooler System Stack	3280401	724602.4	3327199.3	4.1	1.180	50.00	185.00	32.20	5.00
32804	Rain CII Carbon LLC - Gramercy Coke Plant	EQT 0003	Waste Heat Boiler	3280403	724602.4	3327199.3	4.1	99.000	111.00	370.00	62.00	7.90
32804	Rain CII Carbon LLC - Gramercy Coke Plant	EQT 0004	Pyroscrubber	3280404	724602.4	3327199.3	4.1	99.000	199.00	2200.00	38.00	16.50
184682	Infinity Oil & Gas LLC - Darrow Field Facility - Darrow Field	EQT 0012	Internal Combustion Engine-Exhaust Stack	18468212	693405.9	3335261.5	4.06	0.590	10.00	1045.00	39.60	0.50
1617	Lafourche Sugars LLC	EQT 0011	Boiler No. 1	161711	707300.0	3298200.0	2.74	68.900	60.00	160.00	36.40	6.00
1617	Lafourche Sugars LLC	EQT 0012	Boiler No. 2 (Gas, Standby)	161712	707300.0	3298200.0	2.74	16.670	40.00	547.00	12.37	5.00
1617	Lafourche Sugars LLC	EQT 0013	Boiler No. 3	161713	707300.0	3298200.0	2.74	61.100	60.00	450.00	68.30	5.00
1617	Lafourche Sugars LLC	EQT 0014	Boiler No. 4	161714	707300.0	3298200.0	2.74	68.900	60.00	450.00	77.00	5.00
1617	Lafourche Sugars LLC	EQT 0015	Boiler No. 5	161715	707300.0	3298200.0	2.74	83.200	60.00	160.00	39.54	6.33
1617	Lafourche Sugars LLC	EQT 0016	Boiler No. 6	161716	707300.0	3298200.0	2.74	130.000	100.00	160.00	14.90	12.00
4182	Lula Westfield LLC - Lula Factory	EQT 0016	Bagasse Boiler No. 7	418216	686215.7	3325623.0	3.9	72.340	67.00	219.00	14.40	12.00
4182	Lula Westfield LLC - Lula Factory	EQT 0005	Bagasse Boiler No. 1	418205	686198.7	3325621.4	4.04	21.700	53.00	160.00	33.90	3.83
4182	Lula Westfield LLC - Lula Factory	EQT 0006	Bagasse Boiler No. 2	418206	686192.7	3325612.6	4.07	43.400	53.00	180.00	14.40	7.17
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0016	Power Boiler No. 3	138816	724712.9	3327463.7	4.2	171.090	70.00	570.00	151.90	5.50
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0017	Power Boiler No. 4	138817	724720.6	3327466.1	4.35	225.280	70.00	570.00	151.90	5.50
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0001	Boiler No. 1	4234401	684987.1	3318521.0	2.92	28.810	48.00	180.00	14.90	7.00
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0015	Power Boiler No. 2	138815	724726.3	3327487.4	4.36	172.420	70.00	570.00	151.90	5.50
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0014	Power Boiler No. 1	138814	724723.9	3327493.9	4.36	109.550	70.00	570.00	151.90	5.50
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0002	Boiler No. 2	4234402	684977.5	3318517.5	2.88	28.810	45.00	180.00	20.30	6.00
4182	Lula Westfield LLC - Lula Factory	EQT 0017	Common Stack for Boilers No. 3 & 4	418217	686142.1	3325636.1	3.56	65.100	72.00	160.00	5.70	16.00
4182	Lula Westfield LLC - Lula Factory	EQT 0009	Bagasse Boiler No. 5	418209	686143.0	3325642.8	3.6	43.400	53.00	180.00	14.30	7.50
4182	Lula Westfield LLC - Lula Factory	EQT 0010	Bagasse Boiler No. 6	418210	686144.8	3325650.6	3.61	42.190	53.00	160.00	16.50	8.58

Attachment E-2
List of Offsite Inventories
Point Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate(lb/hr)	Height (ft)	Temp (F)	Velocity (ft/s)	Diameter (ft)
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0003	Boiler No. 3	4234403	684970.9	3318507.4	2.89	46.900	53.00	180.00	22.80	7.50
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0007	Boiler No. 7	4234407	684970.9	3318509.6	2.91	142.980	67.00	250.00	33.20	8.88
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0006	Boiler No. 6	4234406	684958.2	3318575.9	2.56	67.000	50.00	180.00	24.90	8.60
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0214	Gas Turbine No. 4	138814A	724804.0	3327393.5	4.37	117.140	35.00	570.00	211.22	6.00
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0169	Waste Heat Boiler No. 3	138869	724800.3	3327431.3	4.37	170.520	55.00	570.00	169.90	6.47
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0004	Boiler No. 4	4234404	684941.0	3318567.9	2.66	28.810	173.00	180.00	9.30	9.00
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0167	Waste Heat Boiler No. 1	138867	724790.4	3327470.2	4.36	173.880	35.00	570.00	169.90	6.47
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0168	Waste Heat Boiler No. 2	138868	724795.1	3327464.2	4.42	173.940	35.00	570.00	169.90	6.47
42344	Lula Westfield LLC - Westfield Raw Sugar Factory	EQT 0005	Boiler No. 5	4234405	684833.2	3318434.1	3.77	67.000	50.00	180.00	24.90	8.60
222696	Greenfield Louisiana LLC - Greenfield Louisiana Terminal	EQT 0167	Grain Dryer	22269667	725602.0	3325815.0	4.82	3.430	76.00	ambient	4.17	3.28
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0018	Kiln No. 3 Cold End ESP	138818	724987.5	3327860.8	3.99	145.300	129.00	490.00	46.60	8.00
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0019	Kiln No. 1 Cold End ESP	138819	725035.2	3327836.3	4.19	75.530	129.00	438.00	41.80	8.90
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0023	Hydrate Dryer # 1	138823	725035.2	3327836.3	4.19	1.450	129.00	1006.00	41.80	8.90
25891	Shell Pipeline Company LP - Convent Sorrento Dome	EQT 0001	Flare	2589101	711886.3	3339083.1	0.46	10.300	65.00	700.00	1.00	3.28
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0199	Hydrate Dryer No. 2	138899	725055.0	3327965.0	3.65	2.750	129.00	145.00	92.35	3.28
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0020	Kiln No. 2 Cold End ESP	138820	725234.7	3327844.8	4.27	88.230	129.00	547.00	45.40	8.90
20506	Enterprise Products Operating LLC - Sorrento Products Handling Terminal	EQT 0006	Flare Stack	2050606	711481.6	3339392.5	0.68	12.960	78.00	1000.00	33.00	0.33
20506	Enterprise Products Operating LLC - Sorrento Products Handling Terminal	EQT 0003	Propane Dehydrator Heater	2050603	711413.6	3339456.2	1.59	0.570	20.00	800.00	36.30	1.00
188317	Hensarling #1 Production Facility - Napoleonville Field	EQT 0010	Control Flare	18831710	684659.0	3323654.3	2.83	0.150	25.00	1500.00	428.00	0.20
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0206	Mud Lake No. 6 Pump West	138806	725527.0	3327911.0	2.23	0.570	6.00	801.79	250.47	0.17
1388	Atalco Gramercy LLC - Atlantic Alumina Gramercy Operations	EQT 0209	Mud Lake No. 6 Pump East	138809	725666.0	3327890.0	3.42	0.570	7.50	801.79	250.47	0.25
27602	Total Marine Services of Jefferson Inc	EQT 0003	Diesel Fueled Compressor	2760203	724600.1	3307513.7	0.29	3.730	15.22	801.79	250.47	0.55
8142	Darrow Field Facility - Darrow Field	EQT 0064	Internal Combustion Engine-Exhaust Stack	814264	694463.4	3337528.6	4.26	1.760	10.00	836.00	153.00	0.50

Attachment E-2
List of Offsite Inventories
Area Sources

Agency ID	AI Name	Subject Item ID	Description	AERMOD ID	UTMx	UTMy	Elevation (m)	Emission rate (lb/hr)	Height (ft)	Length (ft)	Width(ft)
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	FUG 0021	No. 4 Nitric Acid Plant /No. 3 UAN Fugitives	241621A	697374.7	3330574.4	4.85	0.23	3.28	359	169
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	FUG 0014	No. 2 Nitric Acid Plant Fugitives	241614	697054.1	3330762.3	4.58	0.23	3.28	200	133
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	FUG 0010	No. 1 Nitric Acid Plant Fugitives	241610A	696981.1	3330732.3	4.71	0.23	3.28	200	133
2416	CF Industries Nitrogen LLC - Donaldsonville Nitrogen Complex	FUC 0003	No. 3 Nitric Acid Plant/No. 2 UAN Fugitives	241603	696577.1	3330823.3	4.46	0.23	3.28	300	133

ATTACHMENTS E-3 AND E-4
VISCREEN AND ELECTRONIC MODELING FILES