RTI INTERNATIONAL | Memorandum

Date: April 22, 2013

Subject: Emissions Test Data for the Kraft Pulp Mill NSPS Review
EPA Contract No. EP-D-11-084; Work Assignment No. 1-08

From: Katie Hanks

To: Kelley Spence and Bill Schrock
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

I. Introduction

Under section 111(b)(1)(B) of the Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA) is required to review and, if appropriate, revise existing new source performance standards (NSPS) at least every 8 years. The NSPS for kraft pulp mills (40 CFR part 60, subpart BB) were promulgated in 1978 and last reviewed in 1986, and are due for another review. On December 6, 2011, the Center for Biological Diversity, Greenpeace, and Port Townsend AirWatchers filed a complaint with the U.S. District Court for the Northern District of California to compel the EPA to review the kraft pulp mills NSPS as directed under CAA section 111(b)(1)(B). The EPA has entered into a consent decree with petitioners, specifying proposal of the NSPS review by May 15, 2013 and promulgation by March 14, 2014. See docket ID number EOA-HQ-OGC-2012-0730 for a copy of the consent decree.

The kraft pulp mill NSPS regulate emissions of particulate matter (PM) from new, modified, and reconstructed recovery furnaces, smelt dissolving tanks (SDTs), and lime kilns at kraft pulp mills. The NSPS also regulate emissions of total reduced sulfur (TRS) compounds from new, modified, and reconstructed digesters, brown stock washers, multiple-effect evaporators, condensate strippers, recovery furnaces, SDTs, and lime kilns at kraft pulp mills. Total reduced sulfur compounds are defined under 40 CFR 60.281(c) of the kraft pulp mills NSPS to include the following four compounds: hydrogen sulfide (H_2S), methyl mercaptan (CH_4S), dimethyl sulfide ($(CH_3)_2S$), and dimethyl disulfide ($(CH_3)_2S_2$).

In February 2011, the EPA initiated a three-part Information Collection Request (ICR) to gather information from U.S. pulp and paper manufacturers needed to conduct various CAA-required regulatory reviews, including the kraft pulp mill NSPS review. Emissions test data, including stack test reports and continuous emissions monitoring system (CEMS) data were submitted with Parts I and III of the ICR.[1] Stack test data and/or CEMS data were requested for filterable PM, filterable PM2.5, condensable PM, and TRS. Continuous opacity monitoring system (COMS) data were also requested. Test data for additional pollutants and processes outside the scope of the kraft pulp mill NSPS (40 CFR part 60, subpart BB) were also requested, and will be reviewed at a later date.

[1] Part II of the ICR involved updates to pulp and paper mills' National Emissions Inventory data sets, but did not involve submission of stack test or CEMS data.

The purpose of this memorandum is to summarize the approach for reviewing the stack test reports submitted to EPA with the ICR responses that were used in reviewing the existing kraft pulp NSPS. To date, the stack test data tabulation and review has included only those pollutants and processes relevant for the NSPS review, specifically:

- PM from recovery furnaces, SDTs, and lime kilns
- TRS from SDTs

No PM CEMS data were received. A separate memorandum discusses evaluation of the COMS data received for recovery furnaces and lime kilns, and the TRS CEMS data received for recovery furnaces, lime kilns and non-condensable gas (NCG) emission sources. (EPA 2013)

Section II of this memorandum discusses the general approach used to tabulate stack test data, and Section III lists references. The tabulated test data are provided in appendices A through D. Appendices A through C contain PM data for recovery furnaces, lime kilns, and SDTs respectively. Appendix D contains TRS data for SDTs.

II. General Approach to Tabulating Stack Test Data

This section describes how the emissions test reports collected with the ICR responses were prioritized for review, how data were extracted from the test reports, the quality assurance and quality control (QA/QC) measures employed, and how the PM and TRS test data were tabulated.

A. Prioritizing Stack Test Data Received with the ICR

The majority of emissions test reports relevant for the NSPS review were submitted with responses to Part III of the ICR in August 2011, though a few of the reports were submitted earlier with response to Part I of the ICR in April 2011. Part III of the ICR focused on chemical recovery combustion sources, such as recovery furnaces, SDTs, and lime kilns. The ICR requested PM data for recovery furnaces, SDTs, and lime kilns dating back to 2001 (the compliance date for 40 CFR part 63 subpart MM) and the most recent TRS stack test data. The ICR respondents were asked: (1) to submit copies of full emission test reports (i.e., with field and lab data sheets and example calculations); and (2) to complete a spreadsheet table listing the processes and pollutants included in each test report submitted, the test method used, test year, air pollution control device (APCD), and whether the configuration of the emission unit had changed since the emissions test was performed.

The test report lists (item 2 above) from each ICR response were compiled in a data base (PIII_Emissions_test_data table) and used to prioritize which emissions test reports to tabulate for the NSPS review. Obtaining an exact count of the pollutants and processes for which test reports were submitted through the ICR is complicated by the fact that many test reports include a mixture of processes and pollutants tested, though some processes may only have been tested for a particular pollutant. Some mills included such multi-pollutant and multi-process test reports on a single row in the test report list (item 2 above) used to compile the PIII_Emissions_test_data

table, making an exact count impossible without looking at each test report.[2] Nevertheless, the PIII_Emissions_test_data table provided sufficient information to prioritize stack test data for tabulation and obtain a good indication of the volume of stack test data submitted with the ICR responses. The following are *approximate* counts of PM and TRS stack test results available by process subject to the NSPS:

- 730 recovery furnace PM tests (including both direct-contact evaporator (DCE) and non-direct contact evaporator (NDCE) recovery furnaces)
- 650 lime kiln PM tests
- 620 SDT PM tests
- 220 SDT TRS tests

RTI anticipates performing a more robust count of the emissions test results by process and pollutant at a later date (as project timelines allow).

Given the large (and somewhat unanticipated) volume of stack test reports received with the ICR responses (particularly for PM), it was necessary to prioritize test reports for tabulation to meet the court-ordered NSPS review project timeline. The nationwide list of recovery furnaces, SDTs, and lime kilns and their controls provided in the Part III ICR data base was used to help prioritize stack tests for tabulation for the NSPS review. Each emission unit in the Part III ICR data base was reviewed to determine its generic process type, such as Lime Kiln, SDT (Kraft), DCE, or NDCE. Next, standardized control device codes were assigned based on the type of control device reported in the ICR responses. Table 1 below lists the control device codes relevant for NSPS sources.

Table 1. Standardized Control Device Codes Applicable for NSPS Sources

Control device codes	**Description**
SCBR	scrubber
PBSCBR	packed-bed scrubber
DBESP	recovery furnace dry-bottom ESP
DBESP-WPR	recovery furnace dry-bottom ESP with wet PM return system
WBESP	recovery furnace wet-bottom ESP
ESP	electrostatic precipitator
OTH	other – refers to mist eliminators on SDTs

In addition to the controls listed in Table 1, there are combinations of controls (e.g., ESP/SCBR) and two unique recovery furnace controls include a furnace with three parallel ESPs (a DBESP-WPR and two DBESPs) DBESP-WPR/DBESP/DBESP and a two-sided dry-bottom and wet-bottom ESP (DB-WBESP [2-sided dry and wet]).

These standardized codes were included in the PIII_Emissions_test_data table in order to pair test reports with a standardized emission unit and control device type. Next, the test years for each type of emission unit and control device were considered. In general, the most recent test for each emission unit was tabulated in order to ensure coverage and understand variability

[2] For example, a 2010 report for one mill may have noted 2 recovery furnaces, 2 lime kilns, and 2 SDTs tested for PM, NOx, SO_2, and TRS, when in fact, the test may have included PM and NOx for recovery furnaces, SO_2 for lime kilns, and TRS for SDTs (not all of the listed pollutants for every process).

within the U.S. population of emission units. Additional data were compiled for emission units with controls of interest (e.g., ESP-scrubber combinations on recovery furnaces and lime kilns, ESPs on lime kilns) in order to understand emissions variability for each unit and determine the performance of these systems.

B. Extraction of Stack Test Data into a Test Data Spreadsheet

The stack test data of interest for the NSPS review were extracted from the test reports into a test data spreadsheet by RTI staff and RTI's subcontractor, VEETech. Appendix A at the end of this memorandum lists and describes the parameters extracted into the test data spreadsheet from each test report and provides the test data spreadsheet structure. The emissions test data spreadsheet includes:

- General information from the ICR, such as the test report file name, identification codes, emission unit type, APCD type, pulping process, and whether configuration changes have occurred since testing. The PIII_Emissions_test_data table was used as the basis for much of this information (which was separated into rows according to test date for each process stack and pollutant tested).
- Test report information, such as a description of the emission unit and stack tested, fuel burned during the test, test date, test method used, and whether other data are provided in the test report (for tabulation at a later date)
- Emission unit production rate. Preferred units of measure needed for consistency in emission factors were tons of black liquor solids per hour (tons BLS/hr) for recovery furnaces and SDTs and tons of lime (calcium oxide) product per hour (tons CaO/hr) for lime kilns.
- Inlet and outlet emissions test results, including sampling time; isokinetic sampling rate; air flow in actual cubic feet per minute (acfm) and dry standard cubic feet per minute (dscfm); stack gas moisture percent, temperature (°F), stack pressure (in. Hg), oxygen (O_2) percent, carbon dioxide (CO_2) percent, pollutant concentration (parts per million [ppm] or grains per dscf corrected to 8 percent O_2 for recovery furnaces and 10 percent O_2 for lime kilns); pollutant mass emission rate (pounds per hour [lb/hr]); pollutant emission factor (pounds per unit of production); and number of test runs and number of non-detect test runs.
- Pollutant removal efficiency for any inlet-outlet tests.
- Test report comments and any notes pertaining to suspect data that may need to be excluded from analyses.

The data in the emission test spreadsheet are based on test averages (e.g., the average of three test runs for a three-run test). Test average parameters were calculated, as needed, from the run-by-run data in each test report if test averages were not provided in the test report. However, run-by-run data were not tabulated for purposes of NSPS review analyses.

Test data were extracted in batches, by emission unit type initially, beginning with tests on emissions units anticipated to have the best-performing controls and then expanding to all emission units (to observe mill-to-mill and unit-to-unit variability) and additional tests of emission units with selected controls (in order to observe test-to-test variability). Batches of test

data were entered until the project timeline necessitated cessation of data entry and beginning of NSPS review data analyses.

The fuel type or mix burned in an emission unit such as a lime kiln can change over time. Only the fuel types noted in the test reports were provided in the emissions test data base so the test results would be representative of the fuel type combusted during the test. If a fuel type during the test was not specified, then "unspecified" was entered for the fuel type. It was common for auxiliary fuel type to be unspecified for recovery furnaces because recovery furnaces typically only combust fossil fuels during startup or shutdown or intermittently to sustain combustion conditions. Black liquor solids are combusted during normal operations.

Tests of emissions units with multiple stacks were entered on separate rows, one for each stack. Multiple stacks were more common for recovery furnaces than for lime kilns or SDTs. The concentration data from each stack was kept separate for comparison to the NSPS concentration emission limit (e.g., gr/dscf @ 8% O_2 for recovery furnaces). However, the mass emission rates (lb/hr and lb/production) for emission units with multiple stacks were added in a separate column to provide the total mass emission rate from the emission unit for further analysis. These records were labeled as "separate stacks" in the test data spreadsheet.

Some emission units were tested under multiple conditions. These emissions were labeled as "separate conditions" in the test data spreadsheet so their results could be tabulated properly in NSPS analyses (e.g., the results were averaged together when arriving at a single performance level for each emission unit for purposes of the baseline and impacts analyses [RTI 2013a]; however, the results from separate conditions were graphed separately in technology review analyses [RTI 2013b]).

C. Quality Assurance and Quality Control (QA/QC)

Emissions test data were extracted from the appendices of the emissions test reports as opposed to the summary pages whenever feasible. It is important to note that this initial review and extraction of emissions test data from test reports did not include an in-depth look at field and laboratory procedures to evaluate the degree to which prescribed methods have been followed. For purposes of this review, it was assumed that testing contractors and analytical laboratories have followed the procedures of the methods that have been indicated in the test reports.

Nevertheless, QA/QC was performed on the stack test data entered into the test data spreadsheet in preparation for data analyses to identify and correct any obvious calculation errors in the test reports, screen for data entry errors, properly label blanks, identify and recheck any outliers, check calculations, ensure consistency in reported test methods and units of measure for a given emission unit type and pollutant, identify emissions test reports that should be excluded from analyses, and note duplicate tests of the same emission unit for special treatment. Most of this QA was accomplished by grouping data for like units and looking at data ranges provided to spot inconsistencies in the reported data.

Emission units were labeled with concatenations of the RTI Code plus Emission Unit ID, and RTI Code plus Emission Unit ID plus Pollutant to search for duplicate emissions tests of the same emission unit. As noted previously, emission units that had multiple stacks or that were tested under separate conditions were common reasons for duplicate emissions tests, as were emissions tests for the same pollutant performed in multiple years.

For PM tests, the ioskinetic sampling rate was reviewed to ensure it fell between 90 and 110 percent. When reviewing test reports, the filter temperature readings for PM stack tests recorded on field data sheets were checked to ensure the filter temperature was within the 248° ± 25°F window specified in EPA Method 5. The filter temperature was not tabulated in the test data spreadsheet because the majority of tests provided hand-written raw temperature readings but did not provide an average of the filter temperature readings.

The total number of test runs and number of non-detect runs below the method detection limit (MDL) was considered. None of the PM test runs for recovery furnaces, lime kilns, or SDTs were non-detect, so treatment of MDLs was not an issue. For TRS from SDTs, some specific TRS compounds (e.g., methyl mercaptan, dimethyl sulfide, or dimethyl disulfide) were below the detection limit in Method 16, but the total TRS value was above the detection limit in all TRS tests (including Method 16 and Method 16A/B/C tests). Concentration values for non-detect compounds were treated as zero in the Method 16 tests where only selected compounds were non-detect.

D. Particulate Matter Test Data for Recovery Furnaces, SDTs, and Lime Kilns

The current NSPS are based on filterable PM measured with EPA Method 5 or Method 17. Filterable PM stack test data for the NSPS review were compiled for DCE and NDCE recovery furnaces, SDTs, and lime kilns. The filterable PM data evaluated for the NSPS review were measured with EPA Method 5. Subpart BB also allows use of EPA Method 17, but no Method 17 PM data were provided by ICR respondents in the test reports reviewed. Some mills used Oregon Department of Environmental Quality Method 5 (ODEQ Method 5) in addition to or instead of EPA Method 5. In some cases, test data were labeled as both (e.g., EPA/ODEQ Method 5). Preference was given to using EPA Method 5 data over ODEQ data, but ODEQ data were used if no EPA Method 5 data were available. The ODEQ tests were included in the data set for the NSPS review but were labeled as possibly suspect.

Test data for forms of PM other than filterable PM were observed in some of the test reports and may be useful for future analyses outside the scope of the current NSPS review. Some test reports contained condensable PM data, based on measurements made using EPA Method 202 and its predecessor EPA OTM 28, or the back half to ODEQ Method 5. Total PM emissions data (filterable + condensable), based on measurements made using Method 5/Method 202, Method 5/OTM 28, or EPA/ODEQ Method5 front and back half, were noted in some test reports. Also, two total PM10 tests (filterable PM10 + condensable), based on measurements made using Method 201A/Method 202 tests, were noted in the ICR responses. Additional data are likely available in the test reports submitted with the ICR responses, but as described above, a detailed accounting of the test data submitted would be helpful in determining whether enough data for PM fractions other than filterable PM are available for detailed regulatory analyses.

In addition to the mass emissions data tabulated in lb/hr, the filterable PM data were also tabulated in the following units of measure:

Emission unit type:	Concentration units:	Emission factor units:
Recovery furnaces	gr/dscf @ 8% O_2 consistent with the NSPS limit	lb/ton BLS
SDTs	gr/dscf (uncorrected for O_2)	lb/ton BLS consistent with the NSPS limit
Lime kilns	gr/dscf @ 8% O_2 consistent with the NSPS limit	lb/ton CaO

Production data for the recovery furnace discharging smelt into the SDT (tons BLS per hour) are required to obtain SDT PM emissions analogous to the lb/ton BLS NSPS limit. Test reports lacking production data or lacking production data in the desired units were tabulated but were not used in reevaluating the SDT PM limit (e.g., the lb/ton BLS emission factor was labeled as "unspecified").

E. Total Reduced Sulfur Test Data

Subpart BB requires an initial TRS stack test for recovery furnaces, SDTs, and lime kilns. Ongoing compliance with the NSPS TRS limits for these emission units is based on continuous emissions monitoring for recovery furnaces and lime kilns, and scrubber parameter monitoring for SDTs. With the 2011 ICR, EPA collected 1 year of TRS CEMS data for nearly every recovery furnace and lime kiln in the U.S., including recovery furnaces and lime kilns that are not yet subject to NSPS but are required to continuously monitor TRS emissions by their State (as suggested in the TRS emission guidelines published by EPA in 1979). (EPA 1979) Few TRS stack test reports were submitted through the ICR in comparison to the volume of TRS CEMS data submitted for recovery furnaces or lime kilns. Thus, it appears that most mills are using TRS CEMS data as opposed to repeat stack testing to demonstrate ongoing compliance with the TRS emission limits for recovery furnaces and lime kilns; therefore, CEMS data were used to reevaluate the NSPS limits as part of the current NSPS review, and the relatively few recovery furnace and lime kiln TRS stack test reports were not tabulated. A separate memorandum presents the TRS CEMS data for recovery furnaces and lime kilns. This memorandum also presents TRS CEMS data received for non-condensable gas (NCG) sources. (EPA 2013)

Continuous emissions monitoring systems (CEMS) are not required for SDTs. Numerous SDT TRS stack test reports were submitted with the ICR responses relative to the number submitted for recovery furnaces and lime kilns. Therefore, TRS stack test data were tabulated and used to reevaluate the NSPS TRS limit for SDTs.

The current NSPS limit is in terms of pounds of TRS as H_2S per ton of black liquor solids (lb as H_2S/ton BLS). Production data for the recovery furnace discharging smelt into the SDT (tons BLS per hour) are required to obtain SDT TRS emissions in the format of the NSPS limit. Test reports lacking production data or lacking production data in the desired units were tabulated but were not used in reevaluating the NSPS emission limits (e.g., the lb as H_2S/ton BLS emission factor was labeled as "unspecified" if the required production data were unavailable).

The NSPS defines TRS as the sum of four specific compounds (H_2S, MeSH, DMS, and DMDS), as measured by EPA Method 16. Methods 16A and 16B are allowed as alternatives to Method 16. More recently, Method 16C has been promulgated as an alternative to Method 16. (77 FR 44488, July 30, 2012) Method 16 measures all four TRS compounds. Methods 16A through 16C measure TRS as SO_2. The ppm concentration returned by each of the methods is equivalent to "as S," though it was reported by test companies as ppm, ppm as S, ppm as SO_2, ppm as H_2S, etc., all of which have one sulfur molecule. Common TRS abbreviations from test reports are noted in Table 2 below, along with their respective molecular weights.

Table 2. TRS Nomenclature and Molecular Weight

TRS compound	**Abbrev.**	**Formula**	**Molecular Weight**
Dimethyl sulfide	DMS	$(CH_3)_2S$	62.13
Dimethyl disulfide	DMDS	$(CH_3)_2S_2$	94.2
Methyl mercaptan	MM	CH_3SH	48.11
Hydrogen sulfide	H_2S	H_2S	34.08
Measured with EPA Method 16 - TRS dry ppm determined as S as follows: ppm TRS = ppm H_2S + ppm CH_3SH + ppm $(CH_3)_2S$ + [2 x ppm $(CH_3)_2S_2$]			

It was necessary to ensure that SDT TRS data were reported "as H_2S" for comparison to the NSPS limit. Equations in the test report were reviewed to determine if the H_2S molecular weight was used in mass emission rate calculations. Separate calculations using the H_2S molecular weight to convert to lb/hr from ppm were also used to test whether mass emissions were provided on an "as H_2S" basis.

III. References

EPA 1979 — U.S. Environmental Protection Agency. *Kraft Pulping: Control of TRS Emissions from Existing Mills*. Publication No. EPA-450/2-78-003b. March 1979.

EPA 2013 — Spence, K., U.S. Environmental Protection Agency. *Review of the Continuous Emission Monitoring and Continuous Opacity Monitoring Data from the Pulp and Paper Information Collection Request Responses Pertaining to Subpart BB Sources*. Memorandum to Docket ID No. EPA-HQ-OAR-2012-0640. April 5, 2013.

RTI 2013a — T. Holloway and K. Hanks, RTI International. *Emissions Inventory for Kraft Pulp Mills and Costs/Impacts of the Section 111(b) Review of the Kraft Pulp Mills NSPS.* Memorandum to K. Spence and B. Schrock, U.S. EPA. February 4, 2013.

RTI 2013b — K. Hanks and T. Holloway, RTI International. *Technology Review and Regulatory Options for the Kraft Pulp Mill NSPS.* Memorandum to K. Spence and B. Schrock, U.S. EPA. March 29, 2013.

Appendix A

Particulate Matter Emissions Data for Recovery Furnaces

Appendix A: Pulp and Paper Emissions Test Data Spreadsheet for NSPS Review - Recovery Furnace Filterable Particulate Matter

General Information

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI40686_RTI100_DomtarJohnsonburgMill_ MACT II Test Report_July2004.pdf	100	NEI40686	037A	100.037A	100--C037A	DBESP		Kraft	NDCE
NEI9201_DOM No5RB PM Report 4.30.09.pdf	103	NEI9201	G-158	103.G-158	103--RBESP	DBESP		Kraft	NDCE
2010_PM_Lime_Kiln,_No_4_Rec_and_No_4_Smel t.pdf	105	NEI45182	EU445C	105.EU445C	105--CD 456-110, CD445-480, and CD 445-447	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
SECTION 2.pdf/ SECTION 7.pdf	107	NEI47074	08-P1	107.08-P1	107--08-E1	DBESP	Overfire Air	Kraft	NDCE
2010 RB3 PM Compliance.pdf	108	NEI33025	RB3	108.RB3	108--ESP	DBESP	None	Kraft	NDCE
NEI32869 PR 2008016 OCT 2008.pdf	109	NEI32869A	RB3	109.RB3	109--RB3ESP, RB4ESP, ST3SBR, ST4SBR	DBESP		Kraft	NDCE
NEI32869 PR 2008016 OCT 2008.pdf	109	NEI32869A	RB4	109.RB4	109--RB4ESP	DBESP		Kraft	NDCE
NEI45206_P&P Survey_2-2011 Recovery Furnace & Smelt Dissolvi.pdf	111	NEI45206	G-44	111.G-44	111--STWS and ES 455-001	DBESP-WPR	NA	Kraft	NDCE
NEI26506_PM_December_2008.pdf	114	NEI26506	U500	114.U500	114--CDU1	DBESP		Kraft	NDCE
NEI26506_PM_December_2008.pdf	114	NEI26506	U500	114.U500	114--CDU1	DBESP		Kraft	NDCE
NEI8619_IP Pine Hill Recovery Sept 2010 Stack Test Report.pdf	116	NEI8619	003	116.003	116--RFESP	WBESP		Kraft, Secondary, SemiChem	NDCE
No. 20 No. 21 Rec Funr Nov Dec 2010.pdf	119	NEI46814	EQT008	119.EQT008	119--ESP008	DBESP		Kraft, Secondary	DCE
Emission Tests Report No. 21 Jan 2010.pdf	119	NEI46814	EQT010	119.EQT010	119--ESP010	DBESP		Kraft, Secondary	NDCE
No. 20 No. 21 Rec Funr Nov Dec 2010.pdf	119	NEI46814	EQT010	119.EQT010	119--ESP010	DBESP		Kraft, Secondary	NDCE
Recovery Furnace PM Emissions Test Report_NEI26495.pdf	120	NEI26495	F7	120.F7	120--ESP5	DBESP		Kraft	NDCE
0910-29 RB1.pdf	124	NEI8278	001	124.001	124--ESP 001	DBESP		Kraft	DCE
0910-29 RB1.pdf	124	NEI8278	001	124.001	124--ESP 001	DBESP		Kraft	DCE
NEI 42317 Hopewell VA Dec 2009 RF TSP, TRS and SO2.pdf	126	NEI42317	RECOV	126.RECOV	126--RecESP	WBESP		Kraft	NDCE
NEI 42317 Hopewell VA Dec 2009 RF TSP, TRS and SO2.pdf	126	NEI42317	RECOV	126.RECOV	126--RecESP	WBESP		Kraft	NDCE
NEI 42317 Hopewell VA Dec 2009 RF TSP, TRS and SO2.pdf	126	NEI42317	RECOV	126.RECOV	126--RecESP	WBESP		Kraft	NDCE
NEI 42317 Hopewell VA Dec 2009 RF TSP, TRS and SO2.pdf	126	NEI42317	RECOV	126.RECOV	126--RecESP	WBESP		Kraft	NDCE
NEI7933_PIII - Recovery Boiler (North and South Stacks) - PM - April 6, 2011.pdf	127	NEI7933	REC1N	127.REC1N	127--E101A	WBESP		Kraft, Secondary	NDCE
NEI7933_PIII - Recovery Boiler (North and South Stacks) - PM - April 6, 2011.pdf	127	NEI7933	REC1N	127.REC1N	127--E101A	WBESP		Kraft, Secondary	NDCE
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	6	131.6	131--CR05CD	DBESP		Kraft, Secondary	NDCE
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	5	131.5	131--CR01CD	DBESP		Kraft, Secondary	DCE
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	5	131.5	131--CR01CD	DBESP		Kraft, Secondary	DCE
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	5	131.5	131--CR01CD	DBESP		Kraft, Secondary	DCE
2010 RB5.pdf	132	NEI8261	5RB	132.5RB	132--ESP2	DBESP-WPR		Kraft, Secondary	NDCE
2010 RB5.pdf	132	NEI8261	5RB	132.5RB	132--ESP2	DBESP-WPR		Kraft, Secondary	NDCE
2010 RB4.pdf	132	NEI8261	4RB	132.4RB	132--ESP1	DBESP-WPR		Kraft, Secondary	NDCE
RB4MS inhouse PM Source Tests 2011.pdf	133	NEI13363	10	133.10	133--RB4MS	DBESP		Kraft	NDCE
RB4MS inhouse PM Source Tests 2011.pdf	133	NEI13363	10	133.10	133--RB4MS	DBESP		Kraft	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2011 RB & ST PM #103.pdf	135	NEI33118	003-1	135.003-1	135--003-7, 003-8, 003-9	DBESP		Kraft	NDCE
2011 RB & ST PM #103.pdf	135	NEI33118	003-1	135.003-1	135--003-7, 003-8	DBESP		Kraft	NDCE
2010 - SDT(PM-TRS) + RB10(PM-Hg).pdf	136	NEI12368	EU 005	136.EU 005	136--CE 007	DBESP		Kraft	NDCE
2010-09-15 5RF PM-NOx Test Report.pdf	137	NEI26581	721	137.721	137--PC(721)	DBESP-WPR		Kraft	NDCE
2010-09-16 4RF PM Test Report.pdf	137	NEI26581	189	137.189	137--PC(189)	DBESP-WPR		Kraft	NDCE
PM Recovery Furnace SN-02 March 2009.pdf	138	NEI18652	002	138.002	138--ESP RB1	DBESP-WPR		Kraft	NDCE
RTI1#WAL.pdf	142	NEI41552	CU7214	142.CU7214	142--CD-7214	DBESP		Kraft, Secondary	DCE
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 RB PM_November 2009.pdf	143	NEI26504	7010	143.7010	143--C013	WBESP		Kraft	DCE
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 RB PM_November 2009.pdf	143	NEI26504	7020	143.7020	143--C015	WBESP		Kraft	DCE
NEI759 EUID8 No1RF2011.pdf	146	NEI759	8	146.8	146--RF101	WBESP	Tertiary Air	Kraft	DCE
NEI759 EUID8 No1RF2011.pdf	146	NEI759	8	146.8	146--RF101	WBESP	Tertiary Air	Kraft	DCE
MEADWESTVACO SILSBEE, TX MAY 08 # 3 RB COMPLIANCE REPORT.pdf	147	NEI6450	14	147.14	147--C-620	DBESP	Tertiary Air, Low NOX Burners	Kraft	NDCE
MEADWESTVACO SILSBEE, TX MAY 08 # 3 RB COMPLIANCE REPORT.pdf	147	NEI6450	14	147.14	147--C-620	DBESP	Tertiary Air, Low NOX Burners	Kraft	NDCE
MEADWESTVACO SILSBEE FEB 09 #4 RB COMP TEST REPORT.pdf	147	NEI6450	5	147.5	147--C-622	DBESP	Tertiary Air, Low NOX Burners	Kraft	NDCE
MEADWESTVACO SILSBEE FEB 09 #4 RB COMP TEST REPORT.pdf	147	NEI6450	5	147.5	147--C-622	DBESP	Tertiary Air, Low NOX Burners	Kraft	NDCE
NEI46931_7 20-21 10 No. 1 RF & SDT & No. 2 RF & SDT Compliance Test Report.pdf	148	NEI46931	007	148.007	148--RF2ESP	DBESP	Three air streams--primary, secondary & 2 tertiary	Kraft, Secondary	NDCE
NEI46931_7 20-21 10 No. 1 RF & SDT & No. 2 RF & SDT Compliance Test Report.pdf	148	NEI46931	001	148.001	148--RF1ESP	DBESP	Three air streams--primary, secondary & tertiary	Kraft, Secondary	NDCE
150 NewPage Rumford TRC 2007 Report_CRec and Smelt Tank_PM.pdf	150	NEI6273	CREC-1	150.CREC-1	150--SCRBSTa, SCRBSTb	SCBR		Kraft, Mechanical	NDCE
NEI11338_WPC - RF_SDT_LK - Mar 2007.pdf	152	NEI11338	03	152.03	152--03-ESP, 03-SCBR	WBESP/SCBR		Kraft	DCE
NEI11338_WPC - RF_SDT_LK - Mar 2007.pdf	152	NEI11338	03	152.03	152--03-ESP, 03-SCBR	WBESP/SCBR		Kraft	DCE
150 NewPage Rumford TRC 2011 Report_CRec NOx_SO2 _TRS_Lime K.pdf	155	NEI33883	RECOVERY FURNACE	155.RECOVERY FURNACE	155--RF ESP	DBESP	quarternary air	Kraft, Mechanical	NDCE
M52010RF22.pdf	156	NEI42338	RF22	156.RF22	156--RF22EP	DBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	NDCE
M52010RF22.pdf	156	NEI42338	RF22	156.RF22	156--RF22EP	DBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
M52010RF22.pdf	156	NEI42338	RF22	156.RF22	156--RF22EP	DBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	NDCE
M52010RF22.pdf	156	NEI42338	RF22	156.RF22	156--RF22EP	DBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	NDCE
M52010RF18.pdf	156	NEI42338	RF18	156.RF18	156--RF18EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
M52010RF18.pdf	156	NEI42338	RF18	156.RF18	156--RF18EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
M52010RF19.pdf	156	NEI42338	RF19	156.RF19	156--RF19EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
M52010RF19.pdf	156	NEI42338	RF19	156.RF19	156--RF19EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
M52010RF19.pdf	156	NEI42338	RF19	156.RF19	156--RF19EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
M52010RF19.pdf	156	NEI42338	RF19	156.RF19	156--RF19EP	WBESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	DCE
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace CO NOx SO/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul2/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul3.pdf	162	NEI46760	381A	162.381A	162--381AESP	DBESP		Kraft	NDCE
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace CO NOx SO/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul2/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul3.pdf	162	NEI46760	381A	162.381A	162--381AESP	DBESP		Kraft	NDCE
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Recovery Furnace and Smelt Dissolving Tanks testing.pdf	163	NEI8560	RF1901	163.RF1901	163--RF1EP1, RF1EP2	WBESP		Kraft, Secondary	DCE
RTI163_International Paper - Prattville Mill_NEI8560_No 2 Recovery Furnace and Smelt Dissolving Tank testing.pdf	163	NEI8560	RF2904	163.RF2904	163--RF2EP1, RF2EP2	WBESP		Kraft, Secondary	NDCE
RTI163_International Paper - Prattville Mill_NEI8560_No 2 Recovery Furnace and Smelt Dissolving Tank testing.pdf	163	NEI8560	RF2904	163.RF2904	163--RF2EP1, RF2EP2	WBESP		Kraft, Secondary	NDCE
Boilers 8&10, June 10, 2008.pdf	164	NEI42710	B08,B10 combined	164.B08,B10 combined	164--C08 for A ESP	DBESP		Kraft	NDCE
Boilers 8&10, June 10, 2008.pdf	164	NEI42710	B08,B10 combined	164.B08,B10 combined	164--C08 for A ESP	DBESP		Kraft	NDCE
Boilers 8&10, Nov. 10, 2010.pdf	164	NEI42710	B08,B10 combined	164.B08,B10 combined	164--C08 for A ESP	DBESP		Kraft	NDCE
Boilers 8&10, Nov. 10, 2010.pdf	164	NEI42710	B08,B10 combined	164.B08,B10 combined	164--C08 for A ESP	DBESP		Kraft	NDCE
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000013	165.000013	165--EP-1N, EP-1S	DBESP		Kraft	NDCE
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000013	165.000013	165--EP-1N, EP-1S	DBESP		Kraft	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000006	165.000006	165--351013, 351014	DBESP		Kraft	NDCE
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000006	165.000006	165--351013, 351014	DBESP		Kraft	NDCE
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	RB01	166.RB01	166--RB1 ESP	WBESP		Kraft	DCE
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	RB01	166.RB01	166--RB1 ESP	WBESP		Kraft	DCE
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_RB2_CO_July 2009.PDF	166	NEI41314	RB02	166.RB02	166--RB2 ESP, RB2 Scrubber	WBESP/SCBR		Kraft	DCE
RTI169-IP-MansfieldMill-NEI33013_Test_Report_RB_Compliance_(.pdf	169	NEI33013	04	169.04	169--ESP	WBESP		Kraft, SemiChem	NDCE
RTI169-IP-MansfieldMill-NEI33013_Test_Report_RB_Compliance_(.pdf	169	NEI33013	05	169.05	169--ESP	WBESP		Kraft, SemiChem	NDCE
RTI172_International Paper - Riverdale Mill_NEI18335_Oct2010 RB02 PM Testing.pdf	172	NEI18335	RB02	172.RB02	172--RB02 Precipitator	WBESP		Kraft, Secondary	NDCE
RTI172_International Paper - Riverdale Mill_NEI18335_Oct2010 RB01 PM Testing.pdf	172	NEI18335	RB01	172.RB01	172--RB01 Precipitator	WBESP		Kraft, Secondary	NDCE
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-92	174.G-92	174--G-92 ESP	WBESP		Kraft	NDCE
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-92	174.G-92	174--G-92 ESP	WBESP		Kraft	NDCE
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-32	174.G-32	174--G-18 ESP/G-18 SCRUB, G-32 ESP, G-92 ESP, G-63B SCRUB, G-63C EWSCRUB	DBESP		Kraft	NDCE
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (10).pdf	175	NEI26514	RB3A	175.RB3A	175--RB3B	DBESP		Kraft	NDCE
KapStone RR, NC RB7 2010 Report Proper.PDF	176	NEI47104	RB7	176.RB7	176--08-CD-004-001	DBESP		Kraft	NDCE
RecBoiler_WasteBoiler_SmeltTank_LimeKiln_Compliancetest2011_Part1.pdf	177	NEI33887	EU0804	177.EU0804	177--EU0804ESP	DBESP		Kraft	NDCE
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_RFTest2010.pdf	179	NEI45474	RF3	179.RF3	179--RF3ESP	DBESP		Kraft	NDCE
NEI6057 2009 #4RB EMISSION TEST REPORT.pdf	181	NEI6057	9	181.9	181--4RBN_ESPWB	WBESP		Kraft, Secondary, SemiChem	NDCE
NEI6057 2009 #4RB EMISSION TEST REPORT.pdf	181	NEI6057	10	181.10	181--4RBS_ESPWB	WBESP		Kraft, Secondary, SemiChem	NDCE
NEI6057 2009 #5 RB EMISSION TEST REPORT.pdf	181	NEI6057	49	181.49	181--5RBN_ESPDB	DBESP		Kraft, Secondary, SemiChem	NDCE
NEI6057 2009 #5 RB EMISSION TEST REPORT.pdf	181	NEI6057	50	181.50	181--5RBS_ESPDB	DBESP		Kraft, Secondary, SemiChem	NDCE
Sources 036, 037, 110, Group 101 Test Report Aug 2009.pdf	182	NEI7181	037	182.037	182--C37	DBESP		Kraft	NDCE
Recovery Boilers #1 & #2_Compliance Test2010_Part1.pdf	184	NEI46817	73	184.73	184--ESP-2	DBESP-WPR	Utilize staged combustion.	Kraft	NDCE
Recovery Boilers #1 & #2_Compliance Test2010_Part1.pdf	184	NEI46817	72	184.72	184--ESP-1	DBESP-WPR	Utilize staged combustion.	Kraft	NDCE
2009.01 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.04 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.07 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.08 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.10 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.11 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009.12 4RF PM.pdf	185	NEI46599	02	185.02	185--RF4ESP/RF4SCB	DBESP/SCBR		Kraft	NDCE
2009 Annual PM.pdf	186	NEI18334	RB15	186.RB15	186--CRUESP	DBESP		Kraft	NDCE
GP Crossett 8R Recovery Furnace (SN-26) 2011 Compliance Test Report 02-23-11.pdf	189	NEI54342	SN26	189.SN26	189--SN26E	WBESP		Kraft	NDCE
Georgia-Pacific Cedar Springs NEI26491 P3 RB3 PM 09-23-2010 Compliance Test.pdf	190	NEI26491	R402	190.R402	190--C402	DBESP		Kraft, Secondary, SemiChem	NDCE
Georgia-Pacific Cedar Springs NEI26491 P3 RB3 PM 09-23-2010 Compliance Test.pdf	190	NEI26491	R402	190.R402	190--C402	DBESP		Kraft, Secondary, SemiChem	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
Georgia-Pacific Cedar Springs NEI26491 P3 RB2 PM, CO 10-01-2010.pdf	190	NEI26491	R401	190.R401	190--C401	DBESP		Kraft, Secondary, SemiChem	NDCE
2004 Method 5 Testing - part 3 of 3.pdf	196	NEI18660	SN-14	196.SN-14	196--SN-14	DBESP	ESP (dry)	Kraft	NDCE
2004 Method 5 Testing - part 1 of 3.pdf	196	NEI18660	SN-06	196.SN-06	196--SN-06	DBESP	ESP (dry)	Kraft	NDCE
2010 Domtar Compliance Testing Part 1 of 6.pdf	196	NEI18660	SN-06	196.SN-06	196--SN-06	DBESP	ESP (dry)	Kraft	NDCE
RecBoiler_LimeKiln_HogBoiler_SmeltTank_ComplianceTest2008.pdf	197	NEI18657	2	197.2	197--RECSCR, ESP	DBESP/SCBR		Kraft	DCE
NEI41565 MACT II Test Report July 2004.pdf	198	NEI41565	019	198.019	198--019_CD	DBESP		Kraft, Mechanical, Secondary	NDCE
NEI47077 BOWATER CATAWBA APR 10 COMP REPORT.pdf	200	NEI47077	007RF2	200.007RF2	200--2505C	DBESP		Kraft, Mechanical	NDCE
NEI47077 BOWATER CATAWBA APR 10 COMP REPORT.pdf	200	NEI47077	007RF3	200.007RF3	200--5105C	DB-WBESP [2-sided dry and wet]	quarternary air	Kraft, Mechanical	NDCE
1106-104_Boise White Paper_Lime Kiln.pdf	202	NEI12411	Recovery Furnace EU320	202.Recovery Furnace EU320	202--CE320	DBESP	Original TR sets in precipitator first fields were replaced in 2010 with SIR's to maintain first field reliability for 6 minute opacity requirement - more air distribution	Kraft	NDCE
2010 12 RB3 PM.pdf	203	NEI42410	RF#3	203.RF#3	203--RF#3-Scr	DBESP	Tertiary air	Kraft, Sulfite-Na	NDCE
2009 08 RB2 PM SO2.pdf	203	NEI42410	RF#2	203.RF#2	203--RF#2-Scr	DBESP	Tertiary air	Kraft, Sulfite-Na	NDCE
2009 08 RB3 PM SO2.pdf	203	NEI42410	RF#3	203.RF#3	203--RF#3-Scr	DBESP	Tertiary air	Kraft, Sulfite-Na	NDCE
NEI7104 - 2008 No. 3 Recovery Boiler.pdf	207	NEI7104	038	207.038	207--C28	DBESP	use of teritiary air to reduce TRS within the furnace box of the recovery boiler	Kraft	NDCE
NEI7104 - 2008 No. 3 Recovery Boiler.pdf	207	NEI7104	038	207.038	207--C28	DBESP	use of tertiary air to reduce TRS within the furnace box of the recovery boiler	Kraft	NDCE
NEI33023_RF2,RF3_2010_PM,PM10.pdf	226	NEI33023	RECB1	226.RECB1	226--RB2ESP	WBESP		Kraft, Secondary, SemiChem	NDCE
NEI33023_RF2,RF3_2010_PM,PM10.pdf	226	NEI33023	RECB1	226.RECB1	226--RB2ESP	WBESP		Kraft, Secondary, SemiChem	NDCE
Rayonier Jesup RF6 PM test 07_27_10.pdf	240	NEI26526	RF04	240.RF04	240--RFC3	DBESP		Kraft	NDCE
Rayonier Jesup RF5 PM test 05_25_10.pdf	240	NEI26526	RF01	240.RF01	240--RFC1	DBESP		Kraft	NDCE
NEI 34066 Emission Test RB-LK- SDT 2010.pdf	242	NEI34066	AA-011	242.AA-011	242--UT-9	DBESP		Kraft	NDCE
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R407	243.R407	243--REP6	DBESP		Kraft	NDCE
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R401	243.R401	243--R401R4	DBESP		Kraft	NDCE
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R401	243.R401	243--R401R4	DBESP		Kraft	NDCE
P_P_ICR Part III_RTI531_InternationalPaper-Savnnah Mill (1).pdf	531	NEI8186	RF15	531.RF15	531--AP14	DBESP		Kraft, Secondary	NDCE
RTI600_InternationalPaper-CourtlandMill-NEI18357 JUN 10 3RF .pdf	600	NEI18357	G0806	600.G0806	600--08-CD-03-001	DBESP		Kraft	NDCE
RTI600_InternationalPaper-CourtlandMill-NEI18357 NOV 10 1-3L.pdf	600	NEI18357	G0803	600.G0803	600--08-CD-02-001	WBESP		Kraft	DCE
ODEQ-Final Report-CRF-PSEL-Comp-2-23-11.pdf	615	NEI40554	24	615.24	615--RFESP1	DBESP	quarternary air	Kraft	NDCE
ODEQ-Final Report-CRF-PSEL-Comp-2-23-11.pdf	615	NEI40554	24	615.24	615--RFESP1	DBESP	quarternary air	Kraft	NDCE
ODEQ-Final Report-CRF-PSEL-Comp-2-23-11.pdf	615	NEI40554	24	615.24	615--RFESP1	DBESP	quarternary air	Kraft	NDCE
ODEQ-Final Report-CRF-PSEL-Comp-2-23-11.pdf	615	NEI40554	24	615.24	615--RFESP1	DBESP	quarternary air	Kraft	NDCE
2011_0315-17.1.pdf	617	NEI42695	B14	617.B14	617--C01	DBESP		Kraft	NDCE
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	RE01	115.RE01	115--RE1W	DBESP	Good Combustion Practices	Kraft	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	RE01	115.RE01	115--RE1E	DBESP	Good Combustion Practices	Kraft	NDCE
2007_PE_Lime_Kiln_ESP,_No_4_Rec_Boiler_ESP_and_Smelt_Dis_Tank.pdf	105	NEI45182	EU445C	105.EU445C	105--CD445-480	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
2008_PM_No_3_Rec_Furnace_and_No_3_Smelt_Dis_Tank_Vents.pdf	105	NEI45182	EU445A	105.EU445A	105--CD445-183	WBESP		Kraft, Secondary	DCE
TempleInland-OrangeMill_NEI12492_PPTestReport-2002TestReport.pdf	121	NEI12492	000013	121.000013	121--C-REVB1	DBESP		Kraft, Secondary	DCE
TempleInland-OrangeMill_NEI12492_PPTestReport-2002TestReport.pdf	121	NEI12492	000014	121.000014	121--C-REVB2	DBESP		Kraft, Secondary	DCE
TempleInland-OrangeMill_NEI12492_PPTestReport-2004MACTIIReport.pdf	121	NEI12492	000013	121.000013	121--C-REVB1	DBESP		Kraft, Secondary	DCE
TempleInland-OrangeMill_NEI12492_PPTestReport-2004MACTIIReport.pdf	121	NEI12492	000014	121.000014	121--C-REVB2	DBESP		Kraft, Secondary	DCE
0910-29 RB2.pdf	124	NEI8278	019	124.019	124--ESP 019	WBESP		Kraft	DCE
0910-29 RB2.pdf	124	NEI8278	019	124.019	124--ESP 019	WBESP		Kraft	DCE
2011 Stack Report-AIR.pdf	130	NEI18338	1	130.1	130--1RESP	WBESP		Kraft	DCE
2011 Stack Report-AIR.pdf	130	NEI18338	1	130.1	130--1RESP	WBESP		Kraft	DCE
2011 Stack Report-AIR.pdf	130	NEI18338	2	130.2	130--2RESP	WBESP		Kraft	DCE
2011 Stack Report-AIR.pdf	130	NEI18338	2	130.2	130--2RESP	WBESP		Kraft	DCE
RTI1#3PR.PDF	142	NEI41552	CU7216	142.CU7216	142--CD-7216	WBESP		Kraft, Secondary	DCE
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 RB PM_November 2009.pdf	143	NEI26504	7000	143.7000	143--C011	WBESP		Kraft	DCE
No.2 & 3 RB ESP Part Testing.pdf	145	NEI33135	54	145.54	145--PR010-02C	WBESP		Kraft	DCE
No.2 & 3 RB ESP Part Testing.pdf	145	NEI33135	55	145.55	145--PR010-02C	WBESP		Kraft	DCE
NEI46739 RB1_RB3 Combined Stack PM Test Data March 2010.pdf	154	NEI46739	P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	154--C13 and C11	WBESP		Kraft	DCE
NEI46739 RB2 PM, THC, NOx, CO September 2009.pdf	154	NEI46739	P36 - Recovery Furnace 2	154.P36 - Recovery Furnace 2	154--C10	WBESP		Kraft	DCE
NEI46739 RB1 PM June 2011.pdf	154	NEI46739	P39 - Recovery Furnace 1	154.P39 - Recovery Furnace 1	154--C13	WBESP		Kraft	DCE
RTI167 NEI34070 2011_IPVicksburg_StackTestReport_(PB,LK,RB,SDT,SS).pdf	167	NEI34070	005RB	167.005RB	167--RBESPA, RBESPB	WBESP		Kraft, Secondary	DCE
RTI167 NEI34070 2011_IPVicksburg_StackTestReport_(PB,LK,RB,SDT,SS).pdf	167	NEI34070	005RB	167.005RB	167--RBESPA, RBESPB	WBESP		Kraft, Secondary	DCE
9-0224C Evergreen F.pdf	171	NEI18658	002	171.002	171--ESPRB2	DBESP-WPR		Kraft	DCE
9-0224C Evergreen F.pdf	171	NEI18658	003	171.003	171--ESPRB3	DBESP-WPR		Kraft	DCE
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (6).PDF	175	NEI26514	RB2A	175.RB2A	175--RB2B	DBESP		Kraft	DCE
2010.0913-0916.3Q.tests.pdf	188	NEI40600	016RB2	188.016RB2	188--62-301	WBESP	overfire air	Kraft, Secondary, SemiChem	DCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2010.0913-0916.3Q.tests.pdf	188	NEI40600	016RB2	188.016RB2	188--62-301	WBESP	overfire air	Kraft, Secondary, SemiChem	DCE
2011.0606-0609.2Q.tests.pdf	188	NEI40600	014RB1	188.014RB1	188--62-101	WBESP	overfire air	Kraft, Secondary, SemiChem	DCE
NEI8601_Unit 009_2010.pdf	205	NEI8601	009	205.009	205--ESP-N	WBESP		Kraft, Secondary	DCE
NEI8601_Unit 009_2010.pdf	205	NEI8601	009	205.009	205--ESP-S	WBESP		Kraft, Secondary	DCE
NEI8601_Unit 009_2010.pdf	205	NEI8601	009	205.009	205--ESP-N, ESP-S	WBESP		Kraft, Secondary	DCE
RTI206_BRPRECOVB#1011.14.2007.pdf	206	NEI40282	G-31	206.G-31	206--RB10 ESP	WBESP		Kraft	DCE
RTI206_BRPRECOVB#1111.15.2007.pdf	206	NEI40282	G-32	206.G-32	206--RB11 ESP	WBESP		Kraft	DCE
2009 #1 RB.pdf	613	NEI11172	001L	613.001L	613--1LPRCP	DBESP		Kraft, Secondary	DCE
2009 #1 RB.pdf	613	NEI11172	001R	613.001R	613--1RPRCP	DBESP		Kraft, Secondary	DCE
2009 #1 RB.pdf	613	NEI11172	001L&001R	613.001L&001R		DBESP		Kraft, Secondary	DCE
2009 #2 RB.pdf	613	NEI11172	002R	613.002R	613--2RPRCP	DBESP		Kraft, Secondary	DCE
2009 #2 RB.pdf	613	NEI11172	002L	613.002L	613--2LPRCP	DBESP		Kraft, Secondary	DCE
2009 #2 RB.pdf	613	NEI11172	002L&002R	613.002L&002R		DBESP		Kraft, Secondary	DCE
NEI42341A_PIII_D2a_2011-Q1 LK-RB10-SDTV10-HFB11.pdf	102	NEI42341A	RB10	102.RB10	102--RB-ESP	DBESP-WPR		Kraft	NDCE
#14 RB & SDT 2007 (1 of 3).pdf	117	NEI42689	B21	117.B21	117--C21	DBESP		Kraft	NDCE
2011 Stack Report-AIR.pdf	130	NEI18338	3	130.3	130--3RESP	DBESP		Kraft	NDCE
EPA M5 012011.pdf	140	NEI13340	55	140.55	140--461-170	DBESP		Kraft	NDCE
NEI759 TSP Testing 2008 part 1.pdf	146	NEI759	16	146.16	146--RF201	DBESP-WPR	Tertiary Air	Kraft	NDCE
NEI33104-RB2 2007 PM Compliance.PDF	157	NEI33104	RB2	157.RB2	157--WESP	WBESP		Kraft	NDCE
NEI33104-RB2 2007 PM Compliance.PDF	157	NEI33104	RB2	157.RB2	157--WESP	WBESP		Kraft	NDCE
NEI33104-RB2 2007 PM Compliance.PDF	157	NEI33104	RB2	157.RB2	157--WESP	WBESP		Kraft	NDCE
Recovery Boiler PM Emissions Test Report (NEI18177).pdf	159	NEI8177	F3	159.F3	159--CD01	SCBR		Kraft	NDCE
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 2 rec furnace particulate 052.pdf	162	NEI46760	382A	162.382A	162--382AESP	DBESP		Kraft	NDCE
RTI173 NEI 35908 IPTiconderoga Subpart MM Stack Test for RB-SDT-LK 10-04.pdf	173	NEI35908	RECOVB	173.RECOVB	173--ESPA, ESPB	DBESP	NA	Kraft	NDCE
RTI173 NEI 35908 IPTiconderoga Subpart MM Stack Test for RB-SDT-LK 10-04.pdf	173	NEI35908	RECOVB	173.RECOVB	173--ESPA, ESPB	DBESP	NA	Kraft	NDCE
IP PENSACOLA 2011 RF-SDTV COMP REPORT.pdf	178	NEI26309	08P012	178.08P012	178--08C012	DBESP		Kraft	NDCE
IP PENSACOLA 2011 RF-SDTV COMP REPORT.pdf	178	NEI26309	08P013	178.08P013	178--08C013	DBESP		Kraft	NDCE
NEI26471_No3_Recovery_Boiler_PM_TRS_NOx_CO_RATA_2010-0324[1].pdf	180	NEI26471	D001	180.D001	180--D01E	DBESP	Tertiary Air	Kraft, Secondary	NDCE
Georgia-Pacific Cedar Springs NEI26491 P3 RB1 PM & SDTV1 PM, TRS 09-24-2009 Compliance Test.pdf	190	NEI26491	R400	190.R400	190--C400	DBESP		Kraft, Secondary, SemiChem	NDCE
NEI18390_002_004_PM_2011.pdf	199	NEI18390	002	199.002	199--Z003	DBESP		Kraft	NDCE
NEI7559RecoveryBoiler-69-01CompIPT2010.pdf	201	NEI7559	SR0001	201.SR0001	201--ESP	DBESP		Kraft, Mechanical, Secondary	NDCE
RecoveryBoilerSmeltTank#2LimeKiln_EmmisionsTestReport_2005.pdf	340	NEI46852	005	340.005	340--ESP	DBESP		Kraft, Secondary	NDCE
#4RB Compliance 042611.pdf	525	NEI8265	EU18	525.EU18	525--RFESP	DBESP-WPR	quarternary air	Kraft	NDCE
47091_011_2010_PM.pdf	606	NEI47091	RB4	606.RB4	606--ESP4	DBESP		Kraft	NDCE

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
47091_007_2010_PM.pdf	606	NEI47091	RB3	606.RB3	606--ESP3	DBESP		Kraft	DCE
47091_007_2010_PM.pdf	606	NEI47091	RB3	606.RB3	606--ESP3	DBESP		Kraft	DCE
47091_006_2011_PM.pdf	606	NEI47091	RB2	606.RB2	606--ESP2	DBESP		Kraft	NDCE
47091_006_2011_PM.pdf	606	NEI47091	RB2	606.RB2	606--ESP2	DBESP		Kraft	NDCE
610 Verso 2008 RB 1&2 Report.PDF	610	NEI6261	4, 5	610.4, 5	610--ESP	DBESP	stacked air installed in recovery boiler No. 1 in 2007; RB1 upper furnace rebuild in 2008	Kraft, Mechanical	NDCE
610 Verso 2008 RB 1&2 Report.PDF	610	NEI6261	4, 5	610.4, 5	610--ESP	DBESP	stacked air installed in recovery boiler No. 1 in 2007; RB1 upper furnace rebuild in 2008	Kraft, Mechanical	NDCE
610 Verso 2008 RB 1&2 Report.PDF	610	NEI6261	4, 5	610.4, 5	610--ESP	DBESP	stacked air installed in recovery boiler No. 1 in 2007; RB1 upper furnace rebuild in 2008	Kraft, Mechanical	NDCE
610 Verso 2008 RB 1&2 Report.PDF	610	NEI6261	4, 5	610.4, 5	610--ESP	DBESP	stacked air installed in recovery boiler No. 1 in 2007; RB1 upper furnace rebuild in 2008	Kraft, Mechanical	NDCE
2008_PM_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445C	105.EU445C	105--CD445-480	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
2008_PM_Lime_Kiln_Exh,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445C	105.EU445C	105--CD445-480	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
2009_PM_No_3_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt.pdf	105	NEI45182	EU445C	105.EU445C	105--CD445-480	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
2009_PM_No_3_Lime_Kiln_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445C	105.EU445C	105--CD445-480	DBESP-WPR	Tertiary air in #4RB only	Kraft, Secondary	NDCE
Project #1997033 - July 2004.pdf	109	NEI32869A	RB4	109.RB4	109--RB4ESP	DBESP		Kraft	NDCE
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	08P013	178.08P013	178--08C013	DBESP		Kraft	NDCE
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	08P012	178.08P012	178--08C012	DBESP		Kraft	NDCE
Mill code 139 part 1.pdf	139	NEI42357	02	139.02	139--ESP1/ESP2&3	DBESP-WPR/DBESP/DBESP		Kraft, Secondary	NDCE
Mill code 139 part 3.pdf	139	NEI42357	02	139.02	139--ESP1/ESP2&3	DBESP-WPR/DBESP/DBESP		Kraft, Secondary	NDCE
NEI11338_WPC - RF - Mar 2001.pdf	152	NEI11338	03	152.03	152--03-ESP	WBESP/SCBR		Kraft	DCE
NEI11338_WPC - RF_SDT_LK - Sep 2004.pdf	152	NEI11338	03	152.03	152--03-ESP, 03-SCBR	WBESP/SCBR		Kraft	DCE
NEI11338_WPC - RF - Sep 2002.pdf	152	NEI11338	03	152.03	152--03-ESP, 03-SCBR	WBESP/SCBR		Kraft	DCE
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK2_RB1and2_PM_2004.PDF	166	NEI41314	RB02	166.RB02	166--RB2 ESP, RB2 Scrubber	WBESP/SCBR		Kraft	DCE

Green rows were not used in the NSPS review.

le Particulate Matter

	Configuration				General Test Report Information				Production Rate			Inlet/Outlet
RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
100.037A	No		PM	2004	Chemical Recovery Furnace	unspecified	6/15/2004	M5	58.75	ton BLS/hr		Outlet
103.G-158	no		PM	2009	No. 5 Recovery Boiler	No. 2 fuel oil (low sulfur)	4/30/2009	M5	91.77	ton BLS/hr		Outlet
105.EU445C	no		PM	2010	No. 4 Recovery Boiler	BL, Natural Gas	10/13/2010	M5	59.05	ton BLS/hr		Outlet
107.08-P1	No		PM	2009	Recovery Furnace	unspecified	7/21/2009	M5	91.88	ton BLS/hr		Outlet
108.RB3	No		PM	2010	Recovery Boiler No. 3	unspecified	8/18/2010	M5	106.46	ton BLS/hr		Outlet
109.RB3	No		PM	2008	Recovery Boiler # 3	unspecified	7/30/2008	M5	55.48	ton BLS/hr		Outlet
109.RB4	No		PM	2008	Recovery Boiler No. 4	unspecified	8/12/2008	M5	93.42	ton BLS/hr		Outlet
111.G-44	No		PM	2011	Recovery Furnace	No. 2 fuel oil, BLS, Residual fuel oil, and natural gas	1/28/2011	M5	88.6	ton BLS/hr		Outlet
114.U500	No		PM	2008	Recovery Furnace (low load)	oil (secondary)	12/17/2008	M5	79.8	ton BLS/hr		Outlet
114.U500	No		PM	2008	Recovery Furnace (high load)	oil (secondary)	12/18/2008	M5	105.8	ton BLS/hr		Outlet
116.003	No		PM	2010	No. 2 Recovery Boiler	Natural Gas and No. 6 Fuel Oil	9/2/2010	M5	95	ton BLS/hr		Outlet
119.EQT008	No		PM	2010	No. 20 Recovery Boiler	unspecified	12/1/2010	M5	59.1	ton BLS/hr		Outlet
119.EQT010	No		PM	2010	No. 21 Recovery Furnace	Fuel oil	1/5/2010	M5	67.5	ton BLS/hr		Outlet
119.EQT010	No		PM	2010	No. 21 Recovery Boiler	unspecified	11/30/2010	M5	62.5	ton BLS/hr		Outlet
120.F7	No		PM	2010	Recovery Furnace 5	WFB Fuel Oil (was not used during test run)	7/15/2010	M5	104.08	ton BLS/hr		Outlet
124.001	No		PM	2010	No. 1 Recovery Boiler (South 1A)	Fuel Oil	11/3/2010	M5	58	ton BLS/hr		Outlet
124.001	No		PM	2010	No. 1 Recovery Boiler (North 1B)	Fuel Oil	11/3/2010	M5	58	ton BLS/hr		Outlet
126.RECOV	No		PM	2009	Recovery Furnace West Stack 1st Set	BL and No. 6 fuel oil	12/10/2009	M5	51.6	ton BLS/hr		Outlet
126.RECOV	No		PM	2009	Recovery Furnace East Stack 1st Set	BL and No. 6 fuel oil	12/10/2009	M5	51.6	ton BLS/hr		Outlet
126.RECOV	No		PM	2009	Recovery Furnace West Stack 2nd Set	BL and No. 6 fuel oil	12/10/2009	M5	51.6	ton BLS/hr		Outlet
126.RECOV	No		PM	2009	Recovery Furnace East Stack 2nd Set	BL and No. 6 fuel oil	12/10/2009	M5	51.6	ton BLS/hr		Outlet
127.REC1N	No		PM	2011	Recovery Boiler North	unspecified	4/6/2011	M5	72.5	ton BLS/hr		Outlet
127.REC1N	No		PM	2011	Recovery Boiler South	unspecified	4/6/2011	M5	72.5	ton BLS/hr		Outlet
131.6	No		PM	2003	Recovery Furnace 5	No. 2 Distillate Oil	12/9/2003	M5	62.67	ton BLS/hr		Outlet
131.5	No		PM	2003	Recovery Furnace 4	No. 6 Fuel Oil	12/5/2003	M5	63.52	ton BLS/hr		Outlet
131.5	No		PM	2003	Recovery Furnace 4 (two chambers operating) (Condition #1)	No. 6 Fuel Oil	12/2/2003	M5	unspecified			Inlet/Outlet
131.5	No		PM	2003	Recovery Furnace 4 (one chamber operating) (Condition #2 and #3)	No. 6 Fuel Oil	12/3/2003	M5	unspecified			Inlet/Outlet
132.5RB			PM	2010	#5 Recovery Boiler North Stack	unspecified	5/18/2010	M5	69.74	ton BLS/hr		Outlet
132.5RB			PM	2010	#5 Recovery Boiler South Stack	unspecified	5/18/2010	M5	69.74	ton BLS/hr		Outlet
132.4RB			PM	2010	Recovery Boiler 4	unspecified	5/20/2010	M5	63.36	ton BLS/hr		Outlet
133.10	No		PM	2011	Recovery Furnace	unspecified	3/22/2011	unspecified	unspecified			Outlet
133.10	No		PM	2011	Recovery Furnace	unspecified	6/8/2011	unspecified	unspecified			Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
135.003-1	No		PM	2011	Recovery Boiler (three ESP chamber in Operation)	#6 residual oil	2/16/2011	M5	110.38	ton BLS/hr		Outlet
135.003-1	No		PM	2011	Recovery Boiler (two ESP chambers in Operation)	#6 residual oil	2/17/2011	M5	110.38	ton BLS/hr		Outlet
136.EU 005	no		PM	2010	Recovery Boiler #10	soap	5/18/2010	M5	112.5	ton BLS/hr		Outlet
137.721	No		PM	2010	Recovery Furnace 5	unspecified	9/15/2010	M5	94.726	ton BLS/hr		Outlet
137.189	No		PM	2010	Recovery Furnace 4	unspecified	9/16/2010	M5	27.386	ton BLS/hr		Outlet
138.002	No		PM	2009	Recovery Furnace (filterable)	unspecified	3/6/2009	M5	57.08	ton BLS/hr		Outlet
142.CU7214	Yes	Source to be converted from DCE to NDCE low-odor furnace beginning September 2011.	PM	2003	No. 2 Recovery Boiler	unspecified	6/26/2003	M5	37.2	ton BLS/hr		Outlet
143.7010	no		PM	2009	No. 2 Recovery Furnace	unspecified	11/3/2009	M5	17.88	ton BLS/hr		Outlet
143.7020	no		PM	2009	No. 3 Recovery Furnace	unspecified	11/4/2009	M5	26.9	ton BLS/hr		Outlet
146.8	no		PM	2011	No. 1 Recovery Furnace Upriver Stack	unspecified	4/13/2011	M5	77.08	ton BLS/hr		Outlet
146.8	no		PM	2011	No. 1 Recovery Furnace Downriver Stack	unspecified	4/13/2011	M5	77.08	ton BLS/hr		Outlet
147.14	NO	NA	PM	2008	No. 3 Recovery Furnace - North	unspecified	4/30/2008	M5	59.35	ton BLS/hr		Outlet
147.14	NO	NA	PM	2008	No. 3 Recovery Furnace - South	unspecified	4/30/2008	M5	59.35	ton BLS/hr		Outlet
147.5	NO	NA	PM	2009	No. 4 Recovery Furnace - Front Half	unspecified	1/28/2009	M5	100	ton BLS/hr		Outlet
147.5	NO	NA	PM	2008	No. 4 Recovery Furnace	unspecified	7/17/2008	M5	97.5	ton BLS/hr		Outlet
148.007	no		PM	2010	No. 2 Recovery Furnace	unspecified	7/26/2010	M5	81.76	ton BLS/hr		Outlet
148.001	no		PM	2010	No. 1 Recovery Furnace	unspecified	7/21/2010	M5	58.56	ton BLS/hr		Outlet
150.CREC-1	No		PM	2007	Recovery Furnace	unspecified	8/29/2007	M5	unspecified			Outlet
152.03	Yes	added intermediate air (3	PM	2007	Recovery Furnace - Condition 1 (Operating 5 ESPs)	unspecified	3/7/2007	M5	66.4	ton BLS/hr		Outlet
152.03	Yes	added intermediate air (3	PM	2007	Recovery Furnace - Condition 2 (Operating 6 ESPs)	unspecified	3/9/2007	M5	67.1	ton BLS/hr		Outlet
155.RECOVERY FURNACE	No		PM	2004	No. 10 Recovery Furnace	unspecified	9/2/2004	M5	71.88	ton BLS/hr		Outlet
156.RF22	No		PM	2010	Recovery Furnace 22	unspecified	2/16/2010	M5	87	ton BLS/hr		Outlet
156.RF22	No		PM	2010	Recovery Furnace 22	unspecified	4/28/2010	M5	72	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
156.RF22	No		PM	2010	Recovery Furnace 22	unspecified	9/14/2010	M5	51.35	ton BLS/hr		Outlet
156.RF22	No		PM	2010	Recovery Furnace 22	unspecified	12/1/2010	M5	65.45	ton BLS/hr		Outlet
156.RF18	No		PM	2010	Recovery Furnace 18	unspecified	3/4/2010	M5	36.9	ton BLS/hr		Outlet
156.RF18	No		PM	2010	Recovery Furnace 18	unspecified	7/28/2010	M5	43	ton BLS/hr		Outlet
156.RF19	No		PM	2010	Recovery Furnace 19	unspecified	5/12/2010	M5	54.95	ton BLS/hr		Outlet
156.RF19	No		PM	2010	Recovery Furnace 19	unspecified	9/22/2010	M5	65	ton BLS/hr		Outlet
156.RF19	No		PM	2010	Recovery Furnace 19	unspecified	11/4/2010	M5	56.65	ton BLS/hr		Outlet
156.RF19	No		PM	2010	Recovery Furnace 19	unspecified	11/4/2010	M5	56.7	ton BLS/hr		Outlet
162.381A	No		PM	2008	No. 1 Recovery Furnace	No. 6 fuel oil/ No. 2 fuel oil	12/3/2008	M5	52.5	ton BLS/hr		Outlet
162.381A	No		PM	2008	No. 1 Recovery Furnace	No. 6 fuel oil/ No. 2 fuel oil	8/6/2008	M5	52.5	ton BLS/hr		Outlet
163.RF1901	No		PM	2011	No. 1 Recovery Furnace	unspecified	6/1/2011	M5	82.4	ton BLS/hr	Converted from (51.5ADTP/hour)	Outlet
163.RF2904	No		PM	2011	No. 2 Recovery Furnace - North Duct	unspecified	6/2/2011	M5	65.42	ton BLS/hr		Outlet
163.RF2904	No		PM	2011	No. 2 Recovery Furnace - South Duct	unspecified	6/2/2011	M5	65.42	ton BLS/hr		Outlet
164.B08,B10 combined			PM	2008	Recovery Boiler 8 & 10 ESP side B	unspecified	6/8/2008	M5	41.78	ton BLS/hr	Total for both RFs vented to same ESP	Outlet
164.B08,B10 combined			PM	2008	Recovery Boiler 8 & 10 ESP side A	unspecified	6/8/2008	M5	41.78	ton BLS/hr	Total for both RFs vented to same ESP	Outlet
164.B08,B10 combined			PM	2010	Recovery Boiler 8 & 10 ESP side B	unspecified	11/10/2010	M5	39.54	ton BLS/hr	Total for both RFs vented to same ESP	Outlet
164.B08,B10 combined			PM	2010	Recovery Boiler 8 & 10 ESP side A	unspecified	11/10/2010	M5	38.79	ton BLS/hr	Total for both RFs vented to same ESP	Outlet
165.000013	No		PM	2004	No. 1 Recovery Furnace - North Stack	unspecified	7/24/2004	M5	49.6	ton BLS/hr		Outlet
165.000013	No		PM	2004	No. 1 Recovery Furnace - South Stack	unspecified	7/24/2004	M5	49.6	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
165.000006	No		PM	2004	No. 2 Recovery Furnace - East Stack	unspecified	7/21/2004	M5	90.8	ton BLS/hr		Outlet
165.000006	No		PM	2004	No. 2 Recovery Furnace - West Stack	unspecified	7/21/2004	M5	90.8	ton BLS/hr		Outlet
166.RB01	No		PM	2009	No. 1 Recovery Furnace Stack A	unspecified	7/14/2009	M5	68.5	ton BLS/hr		Outlet
166.RB01	No		PM	2009	No. 1 Recovery Furnace Stack B	unspecified	7/14/2009	M5	68.5	ton BLS/hr		Outlet
166.RB02	No		PM	2009	No. 2 Recovery Furnace	unspecified	7/16/2009	M5	82.5	ton BLS/hr		Outlet
169.04	No		PM	2010	No. 1 Recovery Boiler	unspecified	9/21/2010	M5	76.8	ton BLS/hr		Outlet
169.05	No		PM	2010	No. 2 Recovery Boiler	unspecified	9/22/2010	M5	79.1	ton BLS/hr		Outlet
172.RB02	no		PM	2010	No. 2 Recovery Boiler	unspecified	10/25/2010	M5	unspecified			Outlet
172.RB01	no		PM	2010	No. 1 Recovery Boiler	unspecified	10/26/2010	M5	unspecified			Outlet
174.G-92			PM	2004	No. 4 Recovery Furnace North Stack	unspecified	10/25/2004	M5	50.6	ton BLS/hr		Outlet
174.G-92			PM	2004	No. 4 Recovery Furnace - South Stack	unspecified	10/25/2004	M5	50.6	ton BLS/hr		Outlet
174.G-32			PM	2004	No. 5 Recovery Furnace	unspecified	10/20/2004	M5	139.1	ton BLS/hr		Outlet
175.RB3A	no		PM	2010	No. 3 Recovery Boiler	unspecified	3/22/2010	M5	120.2	ton BLS/hr		Outlet
176.RB7	No		PM	2010	No. 7 Recovery Boiler	unspecified	7/27/2010	M5	65.21	ton BLS/hr		Outlet
177.EU0804	No		PM	2011	Recovery Boiler	unspecified	3/24/2011	M5	83.50	ton BLS/hr		Outlet
179.RF3	No		PM	2010	No. 3 Recovery Furnace	unspecified	6/2/2010	M5	93.25	ton BLS/hr		Outlet
181.9	No		PM	2009	No. 4 Recovery Boiler - North Stack	unspecified	2/25/2009	M5	53.92	ton BLS/hr		Outlet
181.10	No		PM	2009	No. 4 Recovery Boiler - South Stack	unspecified	2/25/2009	M5	53.92	ton BLS/hr		Outlet
181.49	No		PM	2009	No. 5 Recovery Boiler - North Stack	unspecified	2/17/2009	M5	33.76	ton BLS/hr		Outlet
181.50	No		PM	2009	No. 5 Recovery Boiler - South Stack	unspecified	2/17/2009	M5	33.76	ton BLS/hr		Outlet
182.037	no		PM	2009	Recovery Boiler No. 3	Fuel Oil (start-up and load maintenance procedures)	8/24/2009	M5	64.21	ton BLS/hr		Outlet
184.73	No		PM	2010	No. 2 Recovery Furnace	unspecified	9/29/2010	M5	89.58	ton BLS/hr		Outlet
184.72	No		PM	2010	No. 1 Recovery Furnace	unspecified	9/28/2010	M5	56.25	ton BLS/hr		Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	1/14/2009	M5	220	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	4/9/2009	M5	218	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	7/8/2009	M5	205	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	8/5/2009	M5	205	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	10/9/2009	M5	220	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	11/11/2009	M5	220	gpm (firing rate)	only units given	Outlet
185.02	No		PM	2009	No. 4 Recovery Furnace	unspecified	12/10/2009	M5	220	gpm (firing rate)	only units given	Outlet
186.RB15	No		PM	2009	No. 4 Recovery Furnace	unspecified	7/13/2009	M5	124.3	ton BLS/hr		Outlet
189.SN26	No		PM	2011	8R Recovery Furnace	unspecified	2/23/2011	M5	113.125	ton BLS/hr		Outlet
190.R402	No		PM	2010	No. 3 Recovery Furnace - North	unspecified	9/21/2010	M5	72.83	ton BLS/hr		Outlet
190.R402	No		PM	2010	No. 3 Recovery Furnace - South	unspecified	9/21/2010	M5	72.83	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
190.R401	No		PM	2010	No. 2 Recovery Furnace	unspecified	10/1/2010	M5	44.9	ton BLS/hr		Outlet
196.SN-14	no		PM	2004	No. 3 Recovery Furnace	unspecified	9/2/2004	M5	112.71	ton BLS/hr	Production given in MLB/Day (assumed to be million lb/da)	Outlet
196.SN-06	no		PM	2004	No. 2 Recovery Furnace	unspecified	9/7/2004	M5	71.46	ton BLS/hr	Production given in MLB/Day (assumed to be million lb/da)	Outlet
196.SN-06	no		PM	2010	No. 2 Recovery Furnace	unspecified	4/20/2010	M5	79.17	ton BLS/hr		Outlet
197.2	No		PM	2008	Recovery Boiler	unspecified	9/19/2008	M5	15.2	ton BLS/hr		Outlet
198.019	No		PM	2004	Recovery Furnace 3	unspecified	7/27/2004	M5	112.72	ton BLS/hr		Outlet
200.007RF2	No		PM	2010	Recovery Furnace No. 2	unspecified	3/31/2010	M5	40.85806	ton BLS/hr		Outlet
200.007RF3	No		PM	2010	Recovery Furnace No. 3	unspecified	4/7/2010	M5	78.41	ton BLS/hr		Outlet
202.Recovery Furnace EU320	no	Particulate matter test includes condensable as well as method 5 filterable	PM	2011	Recovery Furnace EU320	unspecified	7/20/2011	M5	57.63	ton BLS/hr		Outlet
203.RF#3	No		PM	2010	#3 Recovery Furnace	unspecified	12/17/2010	M5	100.72	ton BLS/hr	converted from gpm with conversion given (299.5 gpm BL)	Outlet
203.RF#2	No		PM	2009	#2 Recovery Furnace	unspecified	8/25/2009	M5	17.52	ton BLS/hr	converted from gpm with conversion given (52.76 gpm BL at 11.07 lb/gal)	Outlet
203.RF#3	No		PM	2009	Recovery Furnace #3	unspecified	8/5/2009	M5	104.62	ton BLS/hr	converted from gpm with conversion given (308.6 gpm BL)	Outlet
207.038	No	NA	PM	2008	#3 Recovery Boiler - West Exhaust Stack	No. 6 fuel oil and/or Natural Gas	4/22/2008	M5	18.73	ton BLS/hr		Outlet
207.038	No	NA	PM	2008	#3 Recovery Boiler - East Exhaust Stack	No. 6 fuel oil and/or Natural Gas	4/22/2008	M5	18.73	ton BLS/hr		Outlet
226.RECB1	no		PM	2010	#2 Recovery Furnace - South Stack	unspecified	11/30/2010	M5	78.5	ton BLS/hr		Outlet
226.RECB1	no		PM	2010	#2 Recovery Furnace - North Stack	unspecified	11/30/2010	M5	78.5	ton BLS/hr		Outlet
240.RF04	No		PM	2010	No. 6 Recovery Furnace	unspecified	7/27/2010	M5	119.7	ton BLS/hr		Outlet
240.RF01	No		PM	2010	No. 5 Recovery Furnace	unspecified	5/25/2010	M5	67.4	ton BLS/hr		Outlet
242.AA-011	No		PM	2010	Recovery Furnace	unspecified	9/15/2010	M5	126.40	ton BLS/hr		Outlet
243.R407	No		PM	2009	#6 Recovery Boiler (R407)	unspecified	10/27/2009	M5	122.53	ton BLS/hr		Outlet
243.R401	No		PM	2009	#5 Recovery Boiler (R401) - North	unspecified	11/3/2009	M5	81.6	ton BLS/hr		Outlet
243.R401	No		PM	2009	#5 Recovery Boiler (R401) - South	unspecified	11/3/2009	M5	81.6	ton BLS/hr		Outlet
531.RF15	No		PM	2011	No. 15 Recovery Boiler	unspecified	5/4/2011	M5	150	ton BLS/hr		Outlet
600.G0806	no		PM	2010	No. 3 Recovery Furnace	unspecified	6/8/2010	M5	104	ton BLS/hr		Outlet
600.G0803	no		PM	2010	No. 2 Recovery Furnace	unspecified	11/2/2010	M5	85.23	ton BLS/hr		Outlet
615.24	yes	LVHC combusted in chemi	PM	2011	Chemical Recovery Furnace - West Stack Front Half	Natural Gas	2/23/2011	M5	66.12	ton BLS/hr	Converted from 40.18 ADTP/hour	Outlet
615.24	yes	LVHC combusted in chemi	PM	2011	Chemical Recovery Furnace - East Stack Front Half	Natural Gas	2/23/2011	M5	66.12	ton BLS/hr	Converted from 40.18 ADTP/hour	Outlet
615.24	yes	LVHC combusted in chemi	PM	2011	Chemical Recovery Furnace - West Stack ODEQ 5	Natural Gas	2/23/2011	ODEQ M5	66.12	ton BLS/hr	Converted from 40.18 ADTP/hour	Outlet
615.24	yes	LVHC combusted in chemi	PM	2011	Chemical Recovery Furnace - East Stack ODEQ 5	Natural Gas	2/23/2011	ODEQ M5	66.12	ton BLS/hr	Converted from 40.18 ADTP/hour	Outlet
617.B14	no		PM	2011	Recovery Boiler (S20)	unspecified	3/15/2011	M5	38.4	ton BLS/hr	Converted from 24 ton Pulp/hour	Outlet
115.RE01	no		PM	2010	No. 3 Recovery Boiler (West stack)	unspecified	9/9/2010	M5	87.8	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
115.RE01	no		PM	2010	No. 3 Recovery Boiler (East stack)	unspecified	9/9/2010	M5	87.8	ton BLS/hr		Outlet
105.EU445C	No		PM	2007	No. 4 Recovery Boiler	Natural Gas	05/16/2007	EPA\ODEQ M5	64.45	ton BLS/hr	Units in test report provided in "MPPH" which was interpreted as thousand pounds per hour	Outlet
105.EU445A	no		PM	2008	# 3 Recovery Boiler	Natural Gas	2/21/2008	M5	59	ton BLS/hr	Interpreted "MPPH" as thousand pounds per hour BLS firing rate	Outlet
121.000013	No		PM	2002	No. 1 Recovery Furnace	Unspecified	10/29/2002	M5	34.1	ton BLS/hr		Outlet
121.000014	No		PM	2002	No. 2 Recovery Furnace	Unspecified	10/30/2002	M5	34.2	ton BLS/hr		Outlet
121.000013	No		PM	2004	No. 1 Recovery Furnace	Unspecified	8/23/2004	M5	39	ton BLS/hr		Outlet
121.000014	No		PM	2004	No. 2 Recovery Furnace	Unspecified	8/19/2004	M5	39	ton BLS/hr		Outlet
124.019	No		PM	2010	RB2 - 2A South stack	Unspecified	11/4/2010	M5	58	ton BLS/hr	Respondent provided 116 klbs/hr. Value was converted to tons BLS/hr	Outlet
124.019	No		PM	2010	RB2 - 2B North stack	Unspecified	11/4/2010	M5	58	ton BLS/hr	Respondent provided 116 klbs/hr. Value was converted to tons BLS/hr	Outlet
130.1	No		PM	2011	No. 1 RF North stack	Unspecified	6/23/2011	M5	19.2	ADTP/hr	did not provide ton BLS/Hr	Outlet
130.1	No		PM	2011	No. 1 RF South stack	Unspecified	6/23/2011	M5	19.2	ADTP/hr	did not provide ton BLS/Hr	Outlet
130.2	No		PM	2011	No. 2 RF North stack	Unspecified	6/22/2011	M5	18.9	ADTP/hr	did not provide ton BLS/Hr	Outlet
130.2	No		PM	2011	No. 2 RF South stack	Unspecified	6/22/2011	M5	18.9	ADTP/hr	did not provide ton BLS/Hr	Outlet
142.CU7216	Yes	Conversion from DCE to NDCE low-odor furnace during 2011.	PM	2001	No. 1 Recovery Boiler	Unspecified	6/11/2001	M5	Unspecified	Unspecified	Unspecified	Outlet
143.7000	no		PM	2009	No. 1 RB	Unspecified	11/3/2009	M5	17.72	ton BLS/hr		Outlet
145.54	No		PM	2009	No. 2 Recovery Boiler	Unspecified	4/22/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
145.55	No		PM	2009	No. 3 Recovery Boiler	Unspecified	4/22/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	No		PM	2010	RB 1 and RB 3 Common Stack	Unspecified	3/16/2010	M5	62.13666667	ton BLS/hr	RB 1 - (31.66, 31.6, 31.65) ton BLS/hr RB 3 - (30.47, 30.53, 30.5) ton BLS/hr Combined Runs 1, 2, 3 Prod then averaged	Outlet
154.P36 - Recovery Furnace 2	No		PM	2009	Recovery Boiler 2	Unspecified	9/16/2009	M5	34.175	ton BLS/hr		Outlet
154.P39 - Recovery Furnace 1	No		PM	2011	Recovery Boiler 1	Unspecified	6/21/2011	M5	32.726	ton BLS/hr		Outlet
167.005RB	no	NA	PM	2011	Recovery Furnace North ESP (Wet bottom)	Unspecified	1/18/2011	M5	69.441335	ton BLS/hr	Converted lbs/hr to tons BLS/hr	Outlet
167.005RB	no	NA	PM	2011	Recovery Furnace South ESP (Wet bottom)	Unspecified	1/18/2011	M5	62.177	ton BLS/hr	Converted lbs/hr to tons BLS/hr	Outlet
171.002	no		PM	2009	Recovery Boiler 2	Unspecified	7/8/2009	M5	27.19	ton BLS/hr		Outlet
171.003	no		PM	2009	Recovery Boiler 3	Unspecified	7/9/2009	M5	27.64	ton BLS/hr		Outlet
175.RB2A	no		PM	2009	No 2 Recovery Boiler	Unspecified	6/9/2009	M5	31.2	ton BLS/hr		Outlet
188.016RB2	No		PM	2010	Recovery Boiler 2	Unspecified	9/14/2010	M5	28.0305625	ton BLS/hr	1345467 lbs/day converted to ton BLS/hr	Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
188.016RB2	No		PM	2010	Recovery Boiler 2	Unspecified	9/14/2010	ODEQ M5	28.0305625	ton BLS/hr	1345467 lbs/day converted to ton BLS/hr	Outlet
188.014RB1	No		PM	2011	Recovery Boiler 1	Unspecified	6/9/2011	M5	28.14720833	ton BLS/hr	1351066 lbs/day converted to tons BLS/hr	Outlet
205.009	No		PM	2010	RB North	Unspecified	7/21/2010	M5	30.7	tons per hr	Not specific (Checked PIII and production is around 52 tons BLS/hr)	Outlet
205.009	No		PM	2010	RB South	Unspecified	7/21/2010	M5	30.7	tons per hr	Not specific (Checked PIII and production is around 52 tons BLS/hr)	Outlet
205.009	No		PM	2010	RB Total	Unspecified	7/21/2010	M5	30.7	tons per hr	Not specific (Checked PIII and production is around 52 tons BLS/hr)	Outlet
206.G-31	no		PM	2007	Recovery Boiler 10	Unspecified	11/14/2007	M5	Unspecified	Unspecified	Unspecified	Outlet
206.G-32	no		PM	2007	Recovery Boiler 11	Unspecified	11/15/2007	M5	Unspecified	Unspecified	Unspecified	Outlet
613.001L	No		PM	2009	No. 1 RB ESP - Left Side ESP	Unspecified	10/28/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
613.001R	No		PM	2009	No. 1 RB ESP - Right Side ESP	Unspecified	10/28/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
613.001L&001R	No		PM	2009	No. 1 RB ESP - Combined	Unspecified	10/28/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
613.002R	No		PM	2009	No. 2 RB ESP - Right Side	Unspecified	10/27/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
613.002L	No		PM	2009	No. 2 RB ESP - Left Side	Unspecified	10/27/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
613.002L&002R	No		PM	2009	No. 2 RB ESP- Combined	Unspecified	10/27/2009	M5	Unspecified	Unspecified	Unspecified	Outlet
102.RB10	No		PM	2011	#10 Recovery Boiler	unspecified	1/6/2011	M5	117	ton BLS/hr	Converted from klbs/hr to tons/hr	Outlet
117.B21	No		PM	2007	#14 Recovery Boiler	unspecified	7/17/2007	M5	18.78	ton BLS/hr		Outlet
130.3	No		PM	2011	No. 3 Recovery Furnace	unspecified	6/21/2011	M5	47.591265	ton BLS/hr	tons BLS/hr (dry)	Outlet
140.55	No		PM	2011	RFEU	unspecified	1/27/2011	M5	50.41666667	ton BLS/hr	converted from mmlbs per day to tons per hr	Outlet
146.16	No		PM	2008	Recovery Boiler 2	unspecified	10/16/2008	M5	114.1875	ton BLS/hr	converted from mmlbs per day to tons per hr	Outlet
157.RB2	No		PM	2007	Recovery Boiler West Stack	unspecified	10/9/2007	M5	33.54166667	ton BLS/hr	converted from mmlbs per day to tons per hr	Outlet
157.RB2	No		PM	2007	Recovery Boiler East Stack	unspecified	10/9/2007	M5	33.54166667	ton BLS/hr	converted from mmlbs per day to tons per hr	Outlet
157.RB2	No		PM	2007	Recovery Boiler Combined	unspecified	10/9/2007	M5	Unspecified			Outlet
159.F3	No		PM	2011	Recovery Boiler	unspecified	6/7/2011	M5	32.081	ton BLS/hr		Outlet
162.382A	No		PM	2007	No. 2 Recovery Furnace	unspecified	5/23/2007	M5	unspecified		They provided 210,000 lbs/hr but the conversion seems too high (105 ton/hr). Part III has 2.31 million lb/day = 48 tons/hr	Outlet
173.RECOVB	No		PM	2004	Recovery Boiler - Old Stack	unspecified	9/30/2004	M5	43.8	ton BLS/hr		Outlet
173.RECOVB	No		PM	2004	Recovery Boiler - New Stack	unspecified	9/30/2004	M5	43.8	ton BLS/hr		Outlet
178.08P012	No		PM	2011	Recovery Furnace No. 1	unspecified	6/21/2011	M5	51.77	ton BLS/hr		Outlet
178.08P013	No		PM	2011	Recovery Furnace No. 2	unspecified	6/22/2011	M5	51.77	ton BLS/hr		Outlet
180.D001	No		PM	2010	No. 3 Recovery Furnace	unspecified	3/24/2010	M5	82	ton BLS/hr		Outlet
190.R400	No		PM	2009	RB NO. 1	unspecified	9/24/2009	M5	47.2733	ton BLS/hr		Outlet
199.002	No		PM	2011	No. 3 Recovery Furnace	unspecified	6/15/2011	M5	76.25	ton BLS/hr	converted from 3.66 million lb/day	Outlet
201.SR0001	No		PM	2010	Recovery Boiler	unspecified	10/26/2010	M5	Unspecified		Unspecified	Outlet
340.005	No		PM	2005	Recovery Boiler, SN-05A	unspecified	6/22/2005	M5	47.66666667	ton BLS/hr		Outlet
525.EU18	No		PM	2011	No. 4 Recovery Boiler	unspecified	4/26/2011	M5	unspecified			Outlet
606.RB4	no		PM	2010	Recovery Boiler 4	unspecified	10/25/2010	M5	62.45	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
606.RB3	no		PM	2010	Recovery Boiler 3	unspecified	10/25/2010	M5	39	ton BLS/hr		Outlet
606.RB3	no		PM	2010	Recovery Boiler 3	unspecified	10/26/2010	M5	39	ton BLS/hr		Outlet
606.RB2	no		PM	2011	Recovery Boiler 2 -Scenario 1	unspecified	4/5/2011	M5	65.74	ton BLS/hr		Outlet
606.RB2	no		PM	2011	Recovery Boiler 2 -Scenario 2	unspecified	4/5/2011	M5	67.73	ton BLS/hr		Outlet
610.4, 5	no		PM	2008	Combined Recovery Boiler Stack - Condition 1: *Max Liquor Rec. Boilers 1 & 2*	unspecified	11/11/2008	M5	Unspecified		Provided some GPM values but the stacks are combined.	Outlet
610.4, 5	no		PM	2008	Combined Recovery Boiler Stack - Condition 2: *1 ESP Bank down, Maximum Liquor Rec. Boilers 1 & 2 One ESP Side Down Max Liquor Rec. Boiler 2, Oil Fire Rec. Boiler 1*	unspecified	11/12/2008	M5	Unspecified		Provided some GPM values but the stacks are combined.	Outlet
610.4, 5	no		PM	2008	Combined Recovery Boiler Stack - Condition 3: *2 ESP Banks Down, Controlled Liquor Firing Rec. Boilers 1 & 2*	unspecified	11/15/2008	M5	Unspecified		Provided some GPM values but the stacks are combined.	Outlet
610.4, 5	no		PM	2008	Combined Recovery Boiler Stack - Condition 4: *One ESP Side Down Maximum Liquor Rec. Boiler 2, Oil Fire Rec. Boiler 1*	unspecified	11/10/2008	M5	Unspecified		Provided some GPM values but the stacks are combined.	Outlet
105.EU445C	no		PM	2008	No. 4 Recovery Boiler	Natural Gas	05/20/2008	EPA\ODEQ M5	62	ton BLS/hr		Outlet
105.EU445C	no		PM	2008	No. 4 Recovery Boiler	Natural Gas	10/22/2008	EPA\ODEQ M5	59.2	ton BLS/hr		Outlet
105.EU445C	no		PM	2009	No. 4 Recovery Boiler	Natural Gas	06/03/2009	EPA\ODEQ M5	57.75	ton BLS/hr		Outlet
105.EU445C	no		PM	2009	No. 4 Recovery Boiler	Natural Gas	9/24/2009	EPA\ODEQ M5	53.05	ton BLS/hr		Outlet
109.RB4	No		PM	2004	No. 4 Recovery Boiler	unspecified	06/02/2004	M5	82.07	ton BLS/hr		Outlet
178.08P013	No		PM	2004	No. 2 Recovery Furnace	unspecified	9/8/2004	M5	60.25	ton BLS/hr		Outlet
178.08P012	No		PM	2004	No. 1 Recovery Furnace	unspecified	09/07/2004	M5	60.29	ton BLS/hr		Outlet
139.02	No		PM	2004	Recovery furnace	unspecifled	8/18/2004	M5	53.07	ton BLS/hr		Outlet
139.02	No		PM	2004	Recovery furnace	unspecified	9/9/2004	M5	61.8215	ton BLS/hr		Outlet
152.03	Yes	added intermediate air (3rd level) in Fall 2007	PM	2001	Recovery furnace scrubber inlet and outlet	unspecified	3/29/2001	M5	70.27777778	ton BLS/hr		Inlet/Outlet
152.03	Yes	added intermediate air (3rd level) in Fall 2007	PM	2004	Recovery furnace	unspecified	9/1/2004	M5	67.8	ton BLS/hr		Outlet
152.03	Yes	added intermediate air (3rd level) in Fall 2007	PM	2002	Recovery furnace	unspecified	9/24/2002	M5	unspecified	unspecified	provided in ADTP	Outlet
166.RB02	No		PM	2004	No. 2 Recovery Furnace	unspecified	6/15/2004	M5	unspecified	unspecified	provided in gpm, not mass	Outlet

le Particulate Matter

	Inlet - Testing Methodology Data		Inlet - Average Stack Gas Parameters							Inlet - Average Emissions Data						
RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
100.037A																
103.G-158																
105.EU445C																
107.08-P1																
108.RB3																
109.RB3																
109.RB4																
111.G-44																
114.U500																
114.U500																
116.003																
119.EQT008																
119.EQT010																
119.EQT010																
120.F7																
124.001																
124.001																
126.RECOV																
126.RECOV																
126.RECOV																
126.RECOV																
127.REC1N																
127.REC1N																
131.6																
131.5																
131.5	82	101.3	321000	148000	32.7	319	30.26	15.9	15.9	4	gr/dscf @ 8% O2	3	0	6670	unspecified	
131.5	76.33	102.2	287000	136000	32.3	310	30.51	13.2	6.5	3.1	gr/dscf @ 8% O2	3	0	4030	unspecified	
132.5RB																
132.5RB																
132.4RB																
133.10																
133.10																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
135.003-1																
135.003-1																
136.EU 005																
137.721																
137.189																
138.002																
142.CU7214																
143.7010																
143.7020																
146.8																
146.8																
147.14																
147.14																
147.5																
147.5																
148.007																
148.001																
150.CREC-1																
152.03																
152.03																
155.RECOVERY FURNACE																
156.RF22																
156.RF22																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
156.RF22																
156.RF22																
156.RF18																
156.RF18																
156.RF19																
156.RF19																
156.RF19																
156.RF19																
162.381A																
162.381A																
163.RF1901																
163.RF2904																
163.RF2904																
164.B08,B10 combined																
164.B08,B10 combined																
164.B08,B10 combined																
164.B08,B10 combined																
165.000013																
165.000013																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
165.000006																
165.000006																
166.RB01																
166.RB01																
166.RB02																
169.04																
169.05																
172.RB02																
172.RB01																
174.G-92																
174.G-92																
174.G-32																
175.RB3A																
176.RB7																
177.EU0804																
179.RF3																
181.9																
181.10																
181.49																
181.50																
182.037																
184.73																
184.72																
185.02																
185.02																
185.02																
185.02																
185.02																
185.02																
185.02																
186.RB15																
189.SN26																
190.R402																
190.R402																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
190.R401																
196.SN-14																
196.SN-06																
196.SN-06																
197.2																
198.019																
200.007RF2																
200.007RF3																
202.Recovery Furnace EU320																
203.RF#3																
203.RF#2																
203.RF#3																
207.038																
207.038																
226.RECB1																
226.RECB1																
240.RF04																
240.RF01																
242.AA-011																
243.R407																
243.R401																
243.R401																
531.RF15																
600.G0806																
600.G0803																
615.24																
615.24																
615.24																
615.24																
617.B14																
115.RE01																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
115.RE01																
105.EU445C																
105.EU445A																
121.000013																
121.000014																
121.000013																
121.000014																
124.019																
124.019																
130.1																
130.1																
130.2																
130.2																
142.CU7216																
143.7000																
145.54																
145.55																
154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3																
154.P36 - Recovery Furnace 2																
154.P39 - Recovery Furnace 1																
167.005RB																
167.005RB																
171.002																
171.003																
175.RB2A																
188.016RB2																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
188.016RB2																
188.014RB1																
205.009																
205.009																
205.009																
206.G-31																
206.G-32																
613.001L																
613.001R																
613.001L&001R																
613.002R																
613.002L																
613.002L&002R																
102.RB10																
117.B21																
130.3																
140.55																
146.16																
157.RB2																
157.RB2																
157.RB2																
159.F3																
162.382A																
173.RECOVB																
173.RECOVB																
178.08P012																
178.08P013																
180.D001																
190.R400																
199.002																
201.SR0001																
340.005																
525.EU18																
606.RB4																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
606.RB3																
606.RB3																
606.RB2																
606.RB2																
610.4, 5																
610.4, 5																
610.4, 5																
610.4, 5																
105.EU445C																
105.EU445C																
105.EU445C																
105.EU445C																
109.RB4																
178.08P013																
178.08P012																
139.02																
139.02																
152.03	60	95.9	360912	174336	30.9	302.9	30.23	11.7	8.3	0.086	gr/dscf @ 8%O2	3	0	125.44	1.784916996	lb/ton BLS
152.03																
152.03																
166.RB02																

le Particulate Matter

	Outlet - Testing Methodology Data		Outlet - Average Stack Gas Parameters							Outlet - Average Emissions Data					
RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
100.037A	69.33	97.4	258000	116000	24.2	382	28.41	14.3	5.2	0.014	gr/dscf @ 8% O2	3	0	17.1	0.2911
103.G-158	71.67	104.6	507000	260000	20.4	358.4	29.81	13.8	5.5	0.0099	gr/dscf @ 8% O2	3	0	26.28	0.2864
105.EU445C	80	94.3	243590	112870	26.14	358.85	29.12	14.34	5.6	0.0112	gr/dscf @ 8% O2	3	0	12.69	0.2149
107.08-P1	60	98.2	456770	222392	24.8	349.9	29.701	15.02	4.75	0.0045	gr/dscf @ 8% O2	3	0	10.73	0.1168
108.RB3	60	101.73	490732.7	224253.5	28.9	362.6	29.95	14	7.8	0.0025	gr/dscf @ 8% O2	3	0	4.859	0.0456
109.RB3	60	99.97	239860	122473.3	24.03	317.47	29.6	12.93	5.93	0.024	gr/dscf @ 8% O2	3	0	28.7	0.5180
109.RB4	64	102.27	301152.3	97763.3	25.1	377.57	29.5	15.27	3.8	0.018	gr/dscf @ 8% O2	3	0	28.5	0.3050
111.G-44	69.7	99.25	459566	216459	21.9	408.02	29.67	12.9	6.63	0.00333	gr/dscf @ 8% O2	3	0	6.83	0.0772
114.U500	60	100.7	389727	186632	25.6	357.67	39.83	14	5.87	0.0138	gr/dscf @ 8% O2	3	0	25.84	0.3238
114.U500	60	103.8	521241	238195	26	393.3	29.88	14	5.6	0.0143	gr/dscf @ 8% O2	3	0	34.63	0.3273
116.003	65.67	91.34	423933	196609	25.5	390.89	29.88	14.27	5.19	0.01	gr/dscf @ 8% O2	3	0	20.61	0.2170
119.EQT008	60	107.33	330253.7	176574	22.97	306.76	30.14	9	10.8	0.0107	gr/dscf @ 8% O2	3	0	12.66	0.2142
119.EQT010	60	102.03	399960	225102	19.378	302.94	30.269	9.6	9.9	0.02844	gr/dscf @ 8% O2	3	0	46.764	0.6928
119.EQT010	60	104	374913	205562	22.2	286.46	29.81	10.5	9.27	0.017	gr/dscf @ 8% O2	3	0	26.92	0.4307
120.F7	64.67	100.8	458305	222779	25.43	338	29.49	15.5	3.7	0.01	gr/dscf @ 8% O2	3	0	25.33	0.2434
124.001	62	97.9	160000	78419	31.1	275.1	29.56	11	8	0.0014	gr/dscf @ 8% O2	3	0	0.963	0.0166
124.001	61.7	100.8	161000	77743	31.6	285.8	29.88	11	8.1	0.0019	gr/dscf @ 8% O2	3	0	1.289	0.0222
126.RECOV	64	104.08	150435	71712	23.88	368.4	29.4	13.57	6.49	0.0245	gr/dscf @ 8% O2	3	0	16.797	0.3255
126.RECOV	64	95.05	141404	65745	25.26	374	29.4	13.76	6.16	0.0132	gr/dscf @ 8% O2	3	0	8.444	0.1636
126.RECOV	64	106.26	146024	71741	21.74	366.3	29.4	13.94	6.13	0.0177	gr/dscf @ 8% O2	3	0	12.551	0.2432
126.RECOV	64	98.31	137567	64668	24.77	370.2	29.4	14.19	5.83	0.0114	gr/dscf @ 8% O2	3	0	7.421	0.1438
127.REC1N	61	101	152000	72073	24.6	382.4	30.02	14	5	0.0065	gr/dscf @ 8% O2	3	0	4.986	0.0688
127.REC1N	61.667	100.6	158000	75849	23.5	382.5	30.02	14	5.1	0.0121	gr/dscf @ 8% O2	3	0	7.437	0.1026
131.6	73	100.6	316000	140000	29.1	387	29.92	13.9	5.5	0.011	gr/dscf @ 8% O2	3	0	15.2	0.2425
131.5	75	99.3	343000	154000	33.9	315	29.89	14	5.8	0.019	gr/dscf @ 8% O2	4	0	29.8	0.4691
131.5	82	100.6	323000	147000	34	310	30.08	14.3	5.3	0.004	gr/dscf @ 8% O2	3	0	5.6	unspecified
131.5	76.33	97.6	287000	138000	32.3	437.8	30.34	12.4	7.3	0.008	gr/dscf @ 8% O2	3	0	9.8	unspecified
132.5RB	60	99.72	192377	83074	26.9	432.72	29.88	15.1	5.05	0.0079	gr/dscf @ 8% O2	3	0	6.812	0.0977
132.5RB	60	100.37	184022	81523	25.23	430.04	29.87	14.7	5.5	0.0031	gr/dscf @ 8% O2	3	0	2.164	0.0310
132.4RB	60	98.263	373806	164912	25.12	433.21	29.81	13.96	6.11	0.0061	gr/dscf @ 8% O2	3	0	9.905	0.1563
133.10	72	101.62	413958	192424	27.57	412	29.92	14.5	5.8	0.0015	gr/dscf @ 8% O2	1	0	2.46125	unspecified
133.10	72	103.44	407949	182740	26.99	407	29.92	13.1	6.4	0.0117	gr/dscf @ 8% O2	1	0	18.35416667	unspecified

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
135.003-1	60	104.3	580521	263245	24.5	425	30.13	14.1	5.6	0.013	gr/dscf @ 8% O2	3	0	34.8	0.3153
135.003-1	60	103.1	445047	209598	24.8	387	30.07	11.9	5.5	0.009	gr/dscf @ 8% O2	3	0	20.2	0.1830
136.EU 005	60	100.2	488000	226000	23.6	369	28.6	15	4.6	0.008	gr/dscf @ 8% O2	3	0	19.4	0.1724
137.721	60	101.8	414035	189397	25.32	379.25	29.14	15.89	3.36	0.0037	gr/dscf @ 8% O2	3	0	8.1	0.0855
137.189	60	102.8	168000	81900	23.15	351	29.11	14.17	5.22	0.0117	gr/dscf @ 8% O2	3	0	9.99	0.3648
138.002	65	96.18	322899	156539.37	23.78	370.13	29.96	8.53	5.93	0.01251	gr/dscf @ 8% O2	3	0	16.816	0.2946
142.CU7214	66	93.28	165371	66043	35.6	379	29.56	14.25	5.72	0.004	gr/dscf @ 8% O2	3	0	2.96	0.0790
143.7010	60	106.33	98945	46223	34.17	287.79	30.07	11.4	7.2	0.003	gr/dscf @ 8% O2	3	0	1.1	0.0615
143.7020	64.67	105.3	148513	67391	31	342	30	11.57	6.5	0.007	gr/dscf @ 8% O2	3	0	4.41	0.1639
146.8	65	98.9	198000	84874	32.9	307.3	27.84	11.2	7.6	0.0218	gr/dscf @ 8% O2	3	0	16.42	0.2130
146.8	65	101	238000	104000	32.6	297.8	27.81	10.7	8.3	0.0091	gr/dscf @ 8% O2	3	0	7.899	0.1025
147.14	62.67	96	142366	70100	22	371	29.86	12.9	6.7	0.0127	gr/dscf @ 8% O2	3	0	8.2	0.1382
147.14	62.67	96	141734	71600	21	366	29.87	13.1	6.6	0.0117	gr/dscf @ 8% O2	3	0	8.3	0.1398
147.5	60	98.5	532080	259940	21.7	383.3	29.82	11.4	8.1	0.00967	gr/dscf @ 8% O2	3	0	21.4	0.2140
147.5	60	97.8	524183	249844	22.2	400	29.85	11.8	7.8	0.0108	gr/dscf @ 8% O2	3	0	24.4	0.2503
148.007	78.3	104.7	379365	176204	25.8	388	30.09	15.4	6.4	0.0128	gr/dscf @ 8% O2	3	0	21.7	0.2654
148.001	75	102.4	299477	130819	26.9	429	30.1	13.2	6.8	0.0147	gr/dscf @ 8% O2	3	0	17.9	0.3057
150.CREC-1	60	99.7	460220	204885	25.2	431	30.02	14.5	3.9	0.014	gr/dscf @ 8% O2	3	0	33.6	unspecified
152.03	60	97.8	331941	191448	33.8	159.7	29.8	11.3	8.6	0.0373	gr/dscf @ 8% O2	3	0	58.37	0.9000
152.03	60	97.5	340398	196976	33.9	159.8	29.89	11.1	8.9	0.03	gr/dscf @ 8% O2	3	0	47.18	0.7000
155.RECOVERY FURNACE	67	98.6	425330	182395	25.2	461	29.9	17	3.5	0.0229	gr/dscf @ 8% O2	3	0	48.6	0.6761
156.RF22	60	103	332243	183052	20.5	284	30.19	13.1	5.8	0.0014	gr/dscf @ 8% O2	3	0	2.43	0.0279
156.RF22	60	102.8	281672	154887	22.1	261	29.72	12.4	6.5	0.0013	gr/dscf @ 8% O2	3	0	2.06	0.0286

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
156.RF22	60	105.2	228757	124294	23.3	268	30.02	12.7	6.2	0.0025	gr/dscf @ 8% O2	3	0	2.95	0.0574
156.RF22	60	106.2	257871	136158	24.4	277	29.98	13.3	5.6	0.0003	gr/dscf @ 8% O2	3	0	0.57	0.0087
156.RF18	60	106	276170	159329	22.4	235	30.05	8.8	10.7	0.0011	gr/dscf @ 8% O2	3	0	1.27	0.0344
156.RF18	60	104.5	333017	196875	26.3	177	30.01	10.2	9.3	0.0036	gr/dscf @ 8% O2	3	0	5.45	0.1267
156.RF19	60	99.8	328145	180179	26.4	249	30.33	10.3	9.2	0.0017	gr/dscf @ 8% O2	3	0	2.33	0.0424
156.RF19	60	97.8	427002	231635	23.3	271	29.84	10.1	9.4	0.0056	gr/dscf @ 8% O2	3	0	9.74	0.1498
156.RF19	60	99.3	359458	195853	26.6	247	30.1	10.1	9.4	0.0022	gr/dscf @ 8% O2	3	0	3.24	0.0572
156.RF19	60	95.5	351891	196955	23.4	256	30.1	10.5	9	0.0029	gr/dscf @ 8% O2	3	0	4.57	0.0806
162.381A	67.7	101	289000	131000	26	401	29.97	13.6	6.4	0.009	gr/dscf @ 8% O2	3	0	11	0.2095
162.381A	67.3	103	277000	121000	27	408	29.41	14.2	5.4	0.007	gr/dscf @ 8% O2	3	0	9.1	0.1733
163.RF1901	63.3	99.7	245035	116011	34.2	281	29.94	14.8	4.1	0.00551	gr/dscf @ 8% O2	3	0	7.2	0.0874
163.RF2904	60	99.4	181987	82237	24.8	410	30.02	14	4.7	0.017	gr/dscf @ 8% O2	3	0	14.6	0.2232
163.RF2904	60	99.5	182796	87036	21.7	400	30.02	10.17	8.5	0.016	gr/dscf @ 8% O2	3	0	11	0.1681
164.B08,B10 combined	60	102.5	119336	51621	26	431.1	29.11	9.9	10	0.0262	gr/dscf @ 8% O2	3	0	14.14	0.3384
164.B08,B10 combined	60	99.8	150948	66317	25	416.4	29.09	10.9	9	0.0167	gr/dscf @ 8% O2	3	0	18.18	0.4351
164.B08,B10 combined	60	98.9	138751	64122	21.7	416.5	29.31	8.8	11.2	0.0373	gr/dscf @ 8% O2	3	0	20.09	0.5081
164.B08,B10 combined	60	100.5	172020	77522	22.2	433	29.31	9.3	10.7	0.0216	gr/dscf @ 8% O2	3	0	17.427	0.4493
165.000013	64.3	97	141430	65800	23	404	29.6	12.4	7.4	0.023	gr/dscf @ 8% O2	3	0	13.71	0.2772
165.000013	64.3	95	160321	78100	21	385	29.59	11	9	0.029	gr/dscf @ 8% O2	3	0	18.12	0.3663

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
165.000006	64.3	100	265261	121000	23.8	414	29.55	14.3	5.5	0.02	gr/dscf @ 8% O2	3	0	24.73	0.2710
165.000006	64.3	99	239077	109000	23.8	414	29.55	13.7	6.1	0.015	gr/dscf @ 8% O2	3	0	15.95	0.1747
166.RB01	60	103.5	174027	72552	35.7	342.9	29.53	13.3	5.3	0.0175	gr/dscf @ 8% O2	3	0	13.2	0.1922
166.RB01	60	97.7	185571	85801	30.2	325.6	29.52	13.4	5.4	0.0094	gr/dscf @ 8% O2	3	0	8.3	0.1207
166.RB02	60	98	364537	185388	38.7	169.9	29.63	15.2	4.9	0.0294	gr/dscf @ 8% O2	3	0	57.9	0.7013
169.04	60	94.6	334532	148630	27.6	386.7	29.46	15.3	4.4	0.0072	gr/dscf @ 8% O2	3	0	11.79	0.1535
169.05	60	94.8	353179	160425	26.2	388	29.58	14	5.7	0.0095	gr/dscf @ 8% O2	3	0	15.38	0.1900
172.RB02	60	103	254247	120496	23.3	393.67	29.92	12.5	5.06	0.016	gr/dscf @ 8% O2	3	0	19.75	unspecified
172.RB01	60	105.2	181917	87327	24.8	367	29.92	13.67	5.03	0.0192	gr/dscf @ 8% O2	3	0	17.63	unspecified
174.G-92	60	102.5	147312	70361	28.3	327.4	29.75	11.5	8.4	0.0238	gr/dscf @ 8% O2	3	0	13.9	0.2747
174.G-92	60	100.9	146651	65787	30.8	348.8	29.72	12.8	7.2	0.0206	gr/dscf @ 8% O2	3	0	12.3	0.2431
174.G-32	60	100.8	619514	295924	22.3	392.6	29.71	14.7	5.1	0.0052	gr/dscf @ 8% O2	3	0	16.1	0.1157
175.RB3A	60	101.4	531445	230685	28.3	408.6	29.79	16.63	3.18	0.0166	gr/dscf @ 8% O2	3	0	45.168	0.3758
176.RB7	60	102.2	338207	157603	23.6	404	29.89	14.7	4.8	0.0038	gr/dscf @ 8% O2	3	0	6.43	0.0986
177.EU0804	60	102.3	429145	187441	26.7	393	28.8	14.7	4.5	0.0093	gr/dscf @ 8% O2	3	0	19.061	0.2283
179.RF3	60	95.3	437017	205989	22.4	395.3	29.47	14.8	3.8	0.009	gr/dscf @ 8% O2	3	0	21.09	0.2262
181.9	60	98.8	117636.3	53706	25.7	396.7	29.82	13.3	5.7	0.0227	gr/dscf @ 8% O2	3	0	12.27	0.2275
181.10	60	99.8	163100.3	73735.3	27.23	403.5	29.81	14.0	5.0	0.0294	gr/dscf @ 8% O2	3	0	22.87	0.4241
181.49	60	97.8	121816	59674	23.9	360.7	29.96	13.1	6.2	0.0186	gr/dscf @ 8% O2	3	0	10.8	0.3210
181.50	60	97.3	127058	62264	23.1	370.2	29.99	12.3	7.2	0.0108	gr/dscf @ 8% O2	3	0	6.1	0.1810
182.037	96	100.2	240265.3	113084.3	24	380.5	29.52	15.2	3.9	0.0027	gr/dscf @ 8% O2	3	0	3.4767	0.0541
184.73	60	100.5	408197.9	190996.1	22.38	412	29.84	14	4.70	0.0036	gr/dscf @ 8% O2	3	0	7.792	0.0870
184.72	60	100.0	264041.2	128828.9	21.62	384.4	29.79	13.5	5.81	0.0039	gr/dscf @ 8% O2	3	0	4.987	0.0887
185.02	60	98.8	214116.45	132150	28.19	154.33	29.92	9.83	7.47	0.0237	gr/dscf @ 8% O2	3	0	26.84532857	unspecified
185.02	60	95.4	225236.17	140852	27.24	154.33	29.92	12	7.13	0.019	gr/dscf @ 8% O2	3	0	22.93875429	unspecified
185.02	60	96.5	214548.70	142444	23.51	148.33	29.92	8.67	7.37	0.0305	gr/dscf @ 8% O2	3	0	37.23893143	unspecified
185.02	60	96.8	215615.44	141331	24.40	149	29.92	8	7.6	0.03007	gr/dscf @ 8% O2	3	0	36.42705574	unspecified
185.02	60	95.1	209095.78	140158	22.81	148	29.92	11	6.93	0.02217	gr/dscf @ 8% O2	3	0	26.63402451	unspecified
185.02	60	97.7	205788.90	139843	22.01	146	29.92	11.83	7.23	0.017	gr/dscf @ 8% O2	3	0	20.37712286	unspecified
185.02	60	97.2	215277.94	146335	21.98	146	29.92	10.67	7.16	0.018	gr/dscf @ 8% O2	3	0	22.5774	unspecified
186.RB15	60	95.07	577045	253748	27.23	414.3	29.95	15.5	5.2	0.0042	gr/dscf @ 8% O2	3	0	11.06	0.0890
189.SN26	60	97.47	585204.6	258279.2	30.69	372	30.02	17.42	2.8	0.0067	gr/dscf @ 8% O2	3	0	20.67	0.1827
190.R402	60	102.1	149082	64630	30.2	395.33	30.1	14.32	5.45	0.006	gr/dscf @ 8% O2	3	0	3.8	0.0522
190.R402	60	103	175568	77053	31.1	375	30.14	14.25	5.44	0.005	gr/dscf @ 8% O2	3	0	3.8	0.0522

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
190.R401	60	103.1	250816	119201	26.9	348.67	29.8	13.299	6.96	0.007	gr/dscf @ 8% O2	3	0	8	0.1782
196.SN-14	60	100.3	499177	221767	26.4	413.1	29.864	17.23	1.73	0.0051	gr/dscf @ 8% O2	3	0	14.46	0.1283
196.SN-06	60	99.7	406112	188857	23.8	400.1	29.754	14.77	5.76	0.0073	gr/dscf @ 8% O2	3	0	13.76	0.1926
196.SN-06	60	99.7	421002	201168	21.9	397.7	29.76	15.2	3.8	0.0082	gr/dscf @ 8% O2	3	0	18.66	0.2357
197.2	60	105.5	73051	42947	32	152.5	30.01	9.97	8.1	0.0126	gr/dscf @ 8% O2	3	0	4.61	0.3033
198.019	60	96.9	457140	214314	23.9	370.6	28.978	15.19	3.98	0.01	gr/dscf @ 8% O2	3	0	26.24	0.2330
200.007RF2	64	99.4	236959	114493	24.6	349.2	29.39	12.5	7.1	0.001	gr/dscf @ 8% O2	3	0	1.45	0.0355
200.007RF3	60	99.5	433996	209845	23	364.9	29.46	13.3	6.5	0.021	gr/dscf @ 8% O2	3	0	41.18	0.5252
202.Recovery Furnace EU320	60	102	319000	142000	22.74	405	28.3	14.3	4.5	0.0058	gr/dscf @ 8% O2	3	0	7.08	0.1229
203.RF#3	60	102	298210.06	163169	22.9	284	30.04	unspecified	6.8	0.0022	gr/dscf @ 8% O2	1	0	6.8	0.0675
203.RF#2	78.67	99.47	83828.67	41937	23.67	335	29.522	9.32	9.915	0.0074	gr/dscf @ 8% O2	3	0	2.271	0.1296
203.RF#3	78	99.53	350042.33	158072	24.71	409.3	29.549	13.1	5.592	0.0017	gr/dscf @ 8% O2	3	0	2.759	0.0264
207.038	60	100.77	56337.33	24510.33	28.5	373.67	28.76	11.25	8.58	0.013	gr/dscf @ 8% O2	3	0	1.847	0.0986
207.038	60	105.37	59683.33	26019.67	28.68	369.67	28.75	11.17	15.72	0.013666667	gr/dscf @ 8% O2	3	0	3.013	0.1609
226.RECB1	60	100.9	235861	124134	22.2	313.9	29.69	9.7	9.2	0.0111	gr/dscf @ 8% O2	3	0	10.7	0.1363
226.RECB1	60	99.1	173822	92786	21.6	308.6	29.68	9.7	9.1	0.003	gr/dscf @ 8% O2	3	0	2.2	0.0280
240.RF04	60	105.1	722308	331224	25.2	395.9	29.76	15.6	3.9	0.0064	gr/dscf @ 8% O2	3	0	23.87	0.1995
240.RF01	60	98.1	397532	185688	26.9	357.2	29.62	14.2	5.4	0.004	gr/dscf @ 8% O2	3	0	8.4	0.1242
242.AA-011	60	102.4	637978	283698	26.5	408	29.76	14.7	4.2	0.0101	gr/dscf @ 8% O2	3	0	31.86	0.2518
243.R407	60	97.9	480683	227756	25.1	369.3	29.73	14.1	5.4	0.016	gr/dscf @ 8% O2	3	0	37.63	0.3071
243.R401	60	101.9	232134	110250	22.4	399.4	29.83	13	6.8	0.004	gr/dscf @ 8% O2	3	0	3.61	0.0442
243.R401	60	101.6	234775	113459	21.1	399.6	29.83	12.9	6.9	0.003	gr/dscf @ 8% O2	3	0	2.74	0.0336
531.RF15	60	103.7	668962	333464	22.1	360.8	29.78	15.5	4.7	0.0098	gr/dscf @ 8% O2	3	0	35.2	0.2347
600.G0806	60	99	436346	191923	25	419.1	29.23	14.2	3.9	0.008	gr/dscf @ 8% O2	3	0	17.2	0.1650
600.G0803	60	101.1	490958	221784	29.6	344.6	29.28	12.3	7.5	0.013	gr/dscf @ 8% O2	3	0	26.39	0.3096
615.24	60	100.9	172823	77721	26	404.8	29.77	13.87	4.85	0.0163	gr/dscf @ 8% O2	3	0	13.52	0.2045
615.24	60	99.7	178766	78177	25.9	399.8	28.77	14.03	5.01	0.0246	gr/dscf @ 8% O2	3	0	20.32	0.3073
615.24	60	100.9	172823	77721	26	404.8	29.77	13.87	4.85	0.0198	gr/dscf @ 8% O2	3	0	16.36	0.2474
615.24	60	99.7	178766	78177	25.9	399.8	28.77	14.03	5.01	0.0282	gr/dscf @ 8% O2	3	0	23.3	0.3524
617.B14	77	91.3	189986	96726	17.2	380.9	29.29	14.3	4.7	0.0054	gr/dscf @ 8% O2	3	0	5.59	0.1456
115.RE01	65.66666667	96.4	283000	127000	26.1	406	29.9	14.4	4.3	0.002023952	gr/dscf @ 8% O2	3	0	3.032	0.03453303

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
115.RE01	65.66666667	105.1	307000	145000	22.4	407.3	29.9	14.7	4.1	0.005538462	gr/dscf @ 8% O2	3	0	8.892	0.101275626
105.EU445C	81.33333333	96.9	258148	123293	27.35	337.76	29.73	14.17	5.00	0.0175	gr/dscf @ 8% O2	3	0	22.56	0.35003879
105.EU445A	60	96	306462	138706	28.57	343.76	28.87	14.01	5.52	0.0099	gr/dscf @ 8% O2	3	0	13.98	0.236949153
121.000013	60	101	224108	102000	31	331	29.68	11.1	8.9	0.015	gr/dscf @ 8% O2	3	0	12	0.351906158
121.000014	60	102	215092	98000	31	327	28.95	11	8.9	0.012	gr/dscf @ 8% O2	3	0	9.2	0.269005848
121.000013	60	103	220083	106000	30	322	30.44	12.6	8	0.008	gr/dscf @ 8% O2	3	0	7.3	0.187179487
121.000014	60	103	206796	95300	33	320	30.58	14.3	6.3	0.006	gr/dscf @ 8% O2	3	0	5.3	0.135897436
124.019	60	105.1	160000	77340	30.9	288.8	29.63	11.3	7.5	0.0195	gr/dscf @ 8% O2	3	0	13.435	0.231637931
124.019	60	94.6	170000	74441	32.4	344.5	29.62	11.5	7.3	0.0304	gr/dscf @ 8% O2	3	0	19.418	0.334793103
130.1	60	97.6	99057	50530	26.4	291.66	29.52	11.02	9.15	0.0154	gr/dscf @ 8% O2	3	0	6.06	unspecified
130.1	60	99	101976	47286	30.2	324.33	29.51	11.02	9.15	0.0172	gr/dscf @ 8% O2	3	0	6.34	unspecified
130.2	60	99.8	113664	56267	28.5	288.33	29.36	10.97	9.32	0.0115	gr/dscf @ 8% O2	3	0	4.91	unspecified
130.2	60	103.2	108340	52914	27.7	307.33	29.39	10.97	9.32	0.0115	gr/dscf @ 8% O2	3	0	4.7	unspecified
142.CU7216	62.33333333	88	150327	64588	34.8	339	29.89	12.13333333	5.97	0.006	gr/dscf @ 8% O2	3	0	4.05	unspecified
143.7000	68.66666667	102	106748	50130	31	322	30.09	10	7.8	0.007	gr/dscf @ 8% O2	3	0	3.08	0.173814898
145.54	62.5	105.1	250436	108454	31.5	337.33	28.76	14.8	6.1	0.002919932	gr/dscf @ 8% O2	3	0	3.15	unspecified
145.55	60	102.4	208555	95455	27.7	342.33	28.8	13.8	6.7	0.007199595	gr/dscf @ 8% O2	3	0	6.74	unspecified
154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	60	97.67	322223	160757	27.3	265.3	28.21	13.2	6.7	0.0159	gr/dscf @ 8% O2	3	0	24.151	0.3886755
154.P36 - Recovery Furnace 2	60	101.13	145521	70646	30.9	275.9	29.25	14.5	5.4	0.0147	gr/dscf @ 8% O2	4	0	10.624	0.310870519
154.P39 - Recovery Furnace 1	60	101.6	194684	99093	27	260.2	28.45	10.8	9.5	0.0076	gr/dscf @ 8% O2	3	0	5.74	0.17539571
167.005RB	60	97	164475	70774	37.1	315	30.15	13.7	6.54	0.013	gr/dscf @ 8% O2	3	0	9.08	0.132
167.005RB	60	96	161717	73287	32.8	325	30.15	13.11	7.72	0.033	gr/dscf @ 8% O2	3	0	24.52	0.47
171.002	60	100.8	117276	60677	28	269	29.82	14.8	5.6	0.025	gr/dscf @ 8% O2	3	0	22.8	0.838543582
171.003	60	104.8	117395	57231	31	281.9	29.69	13.3	6.4	0.02	gr/dscf @ 8% O2	3	0	17.5	0.633140376
175.RB2A	60	97.5	222986	116304	25.4	293.6666667	29.92	8.2	10.9	0.01	gr/dscf @ 8% O2	3	0	7.67	0.245833333
188.016RB2	72	98.36	200741	103060	28.48	282.5	30.2	10.6	9.6	0.012	gr/dscf @ 8% O2	3	0	8.97	0.320007849

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
188.016RB2	72	98.36	200741	103060	28.48	282.5	30.2	10.6	9.6	0.013	gr/dscf @ 8% O2	3	0	10.36	0.369596579
188.014RB1	60	99.08	170932	86912	28.91	280	30	11.6	8.9	0.006	gr/dscf @ 8% O2	3	0	3.93	0.139623083
205.009	61	99.1	128,730	55,790	Unspecified	329	29.95	12.83333333	5.6	0.012	gr/dscf @ 8% O2	3	0	7	unspecified
205.009	61	101.6	134,269	58,759	Unspecified	325	29.95	12.83333333	5.366666667	0.012	gr/dscf @ 8% O2	3	0	7.2	unspecified
205.009	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	0.012	gr/dscf @ 8% O2	3	0	14.2	unspecified
206.G-31	60	94.3	399000	188000	27.3	279.7	27.26	11	9.1	0.011361345	gr/dscf @ 8% O2	3	0	16.808	unspecified
206.G-32	60	98.2	408000	189000	28.3	284.3	27.15	12.7	7.3	0.012525547	gr/dscf @ 8% O2	3	0	21.279	unspecified
613.001L	60	94	183237	89461	26.4	331	29.7296	13.68	6.09	0.019	gr/dscf @ 8% O2	3	0	16.76	unspecified
613.001R	60	94	153509	75810	29	300	29.94	12.73	7.02	0.022	gr/dscf @ 8% O2	3	0	15.48	unspecified
613.001L&001R	Unspecified	Unspecified	Unspecified	165271	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	3	0	32.24	unspecified
613.002R	60	95	151379	70577	29.8	325	29.56	14.09	5.68	0.0058	gr/dscf @ 8% O2	3	0	4.11	unspecified
613.002L	60	95	154706	73366	28.5	326	29.56	13.93	5.89	0.0109	gr/dscf @ 8% O2	3	0	7.97	unspecified
613.002L&002R	Unspecified	Unspecified	Unspecified	143942	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	3	0	12.08	unspecified
102.RB10	60	98.67	531996	249578	26.25	377.3	30.18	13.9	5.7	0.0047	gr/dscf @ 8% O2	3	0	11.9	0.101709402
117.B21	60	96.9	123189	58982	unspecified	369	unspecified	12.9	6.9	0.0131	gr/dscf @ 8% O2	3	0	7.19	0.3828541
130.3	60	99	241271	109424	25	412.33	29.94	13.95	5.86	0.00295	gr/dscf @ 8% O2	3	0	3.19	0.067029107
140.55	60	100.8	230507	106006	23.07	421.3	29.98	12.7	6.07	0.012	gr/dscf @ 8% O2	3	0	12.45833333	0.23
146.16	60	95.1	527000	247000	22.6	380.4	28.78	15.8	2.9	0.004022099	gr/dscf @ 8% O2	3	0	11.848	0.1038
157.RB2	60	96.1	82804	35775	28.4	417	30.02	15	4.17	0.038	gr/dscf @ 8% O2	3	0	15	0.447204969
157.RB2	60	99.5	77359	33805	28.2	410	30.03	15.3	3.7	0.048	gr/dscf @ 8% O2	3	0	18.7	0.557515528
157.RB2	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	0.043	gr/dscf @ 8% O2	3	0	33.6	unspecified
159.F3	60	101	159040	unspecified	31	137	29.87	unspecified	7.6	0.032	gr/dscf @ 8% O2	3	0	26.847	0.836850472
162.382A	60	100	541000	243000	26	406	29.8	15.1	4.1	0.0083	gr/dscf @ 8% O2	3	0	22	unspecified
173.RECOVB	60	103.1	unspecified	67700	22	412	unspecified	11.3	9.4	0.0134	gr/dscf @ 8% O2	3	0	6.94	0.158447489
173.RECOVB	60	105.2	unspecified	45300	25.2	406	unspecified	12	8.2	0.00296	gr/dscf @ 8% O2	3	0	1.13	0.025799087
178.08P012	60	105	324757	141409	26	420	29.45	14.4	5	0.017	gr/dscf @ 8% O2	3	0	25	0.48
178.08P013	60	104	314904	135618	27	417	29.45	14.4	5.3	0.014	gr/dscf @ 8% O2	4	0	20	0.38
180.D001	60	95	373105	184000	23	362	29.69	13.4	5.8	0.005	gr/dscf @ 8% O2	3	0	8.4	0.102439024
190.R400	60	95.1	277000	137000	24.4	343.4	29.72	12.2	7.4	0.0099	gr/dscf @ 8% O2	3	0	11.666	0.2468
199.002	60	100	unspecified	225000	21	384	29.23	12.4	6.4	0.0109	gr/dscf @ 8% O2	3	0	23.5	0.308196721
201.SR0001	60	100.65	457352.9	214191.8	25.79	369.4	29.61	13.51	6.31	0.0164	gr/dscf @ 8% O2	3	0	34.167	unspecified
340.005	60	98	237348	122869	21.06666667	347	30.006	14.1	6.2	0.0239	gr/dscf @ 8% O2	3	0	28.32	0.594125874
525.EU18	60	100	387371	unspecified	21	392	unspecified	unspecified	4.6	0.004	gr/dscf @ 8% O2	3	0	8.3	unspecified
606.RB4	60	100.63	337630	146198	26.44	437.72	30.03	12.73	6.39	0.0258	gr/dscf @ 8% O2	3	0	36.448	0.583634908

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)
606.RB3	60	103.82	197006	108567	21.31	297	30.03	12.25	8.01	0.0285	gr/dscf @ 8% O2	3	0	26.666	0.68374359
606.RB3	60	103.09	202041	105093	25.28	300.57	29.99	12.15	8.16	0.0037	gr/dscf @ 8% O2	3	0	3.301	0.084641026
606.RB2	60	99.62	241107	114000	24.26	385	29.86	12.34	7.62	0.0162	gr/dscf @ 8% O2	4	0	16.46	0.250380286
606.RB2	60	98.84	257081	118143	26.06	390	29.93	12.71	7.37	0.0235	gr/dscf @ 8% O2	3	0	25.061	0.370013288
610.4, 5	60	104.3	559591	262821.5667	24.8	391.7	unspecified	13.42	5.87	0.011	gr/dscf @ 8% O2	3	0	32.36	unspecified
610.4, 5	60	105	576491	268060	25	395.1	unspecified	13.54	5.86	0.013	gr/dscf @ 8% O2	3	0	39.87	unspecified
610.4, 5	60	104.6	540472	245517	25.4	390.6	unspecified	13.55	5.73	0.017	gr/dscf @ 8% O2	3	0	44.61	unspecified
610.4, 5	60	99.2	362223	198932	16.9	342.8	unspecified	9.19	10.22	0.033	gr/dscf @ 8% O2	3	0	46.34	unspecified
105.EU445C	88.3	95.4	270724	130045	24.96	351.06	29.43	12.8	6.87	0.0208	gr/dscf @ 8% O2	3	0	25.06	0.404
105.EU445C	91	97.7	254749	123511	25.91	342.79	29.78	14.52	4.69	0.0165	gr/dscf @ 8% O2	3	0	21.9	0.370
105.EU445C	67	99.4	270638	128101	26.08	342.28	29.12	14.27	4.47	0.0177	gr/dscf @ 8% O2	3	0	24.58	0.426
105.EU445C	73.3	99.6	229078	110212	26.52	325	29.13	13.1	5.9	0.0222	gr/dscf @ 8% O2	3	0	24.35	0.459
109.RB4	64	99.6	288260	132840	26.39	371.4	29.5	14.37	5	0.0287	gr/dscf @ 8% O2	3	0	40.49	0.493
178.08P013	60	98.8	322880	141390	25.3	425.5	29.42	10.9	5.8	0.023	gr/dscf @ 8% O2	3	0	32.17	0.534
178.08P012	60	99.4	315084	136180	25.7	432.8	29.42	11.9	4	0.013	gr/dscf @ 8% O2	3	0	20.12	0.334
139.02	60	97	343794	193722	16.99	325.8	30.23	6.4	14.1	0.076	gr/dscf @ 8% O2	3	0	66.9	1.260599209
139.02	60	96.2		179558	16.8	341	unspecified	unspecified	13.3	0.015194805	gr/dscf @ 8% O2	3	0	23.38584712	0.378280163
152.03	60	98.9	330799	184725	34.4	164.1	30.1	12.1	7.6	0.019	gr/dscf @ 8% O2	3	0	30.45	0.433280632
152.03	60	96.4	339964	189037	34.1	162	29.78	12.6	7.5	0.0308	gr/dscf @ 8% O2	3	0	51.8	0.765
152.03	60	102.4	321774	185066	32.9	161.6	30.2	12.3	7.7	0.031278195	gr/dscf @ 8% O2	3	0	49.94	unspecified
166.RB02	60	102.12	376044	196126	38.55	168	30.07	15.71	4.44	0.011	gr/dscf @ 8% O2	3	0	24.44	unspecified

le Particulate Matter

		Removal Efficiency	Suspect Data		Exclude		Comment
RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
100.037A	lb/ton BLS						
103.G-158	lb/ton BLS						
105.EU445C	lb/ton BLS						
107.08-P1	lb/ton BLS						
108.RB3	lb/ton BLS						
109.RB3	lb/ton BLS						
109.RB4	lb/ton BLS						
111.G-44	lb/ton BLS						
114.U500	lb/ton BLS						
114.U500	lb/ton BLS						
116.003	lb/ton BLS						
119.EQT008	lb/ton BLS						
119.EQT010	lb/ton BLS						
119.EQT010	lb/ton BLS						
120.F7	lb/ton BLS						
124.001	lb/ton BLS						
124.001	lb/ton BLS						
126.RECOV	lb/ton BLS						
126.RECOV	lb/ton BLS						
126.RECOV	lb/ton BLS						
126.RECOV	lb/ton BLS						
127.REC1N	lb/ton BLS						
127.REC1N	lb/ton BLS						
131.6	lb/ton BLS						
131.5	lb/ton BLS						
131.5		99.9%					
131.5		99.8%					
132.5RB	lb/ton BLS						
132.5RB	lb/ton BLS						
132.4RB	lb/ton BLS						
133.10					Yes	Only 1 run from in-house emission test	lb/day emission rate provided (instead of lb/hr; divided by 24)
133.10					Yes	Only 1 run; summary of in-house test only	lb/day emission rate provided (instead of lb/hr; divided by 24)

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
135.003-1	lb/ton BLS						
135.003-1	lb/ton BLS						
136.EU 005	lb/ton BLS						
137.721	lb/ton BLS						
137.189	lb/ton BLS						
138.002	lb/ton BLS						
142.CU7214	lb/ton BLS			Source to be converted from DCE to NDCE low-odor furnace beginning September 2011.			Source to be converted from DCE to NDCE low-odor furnace beginning September 2011.
143.7010	lb/ton BLS						
143.7020	lb/ton BLS						
146.8	lb/ton BLS						
146.8	lb/ton BLS						
147.14	lb/ton BLS						
147.14	lb/ton BLS						
147.5	lb/ton BLS						
147.5	lb/ton BLS						
148.007	lb/ton BLS						
148.001	lb/ton BLS						
150.CREC-1					Yes	Upon the completion of the first test, New Page contacted the Maine DEP in regards to process operational concerns in regards to an unscheduled shutdown and subsequent start-up of the hardwood pulp mill that supplies the black liquor fuel for this boiler. It was conclude that the field parameter values were abnormal and testing was thereby delayed one day for more representative, higher boiler load conditions.	
152.03	lb/ton BLS						
152.03	lb/ton BLS						
155.RECOVERY FURNACE	lb/ton BLS						
156.RF22	lb/ton BLS						
156.RF22	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
156.RF22	lb/ton BLS						
156.RF22	lb/ton BLS						
156.RF18	lb/ton BLS						
156.RF18	lb/ton BLS						
156.RF19	lb/ton BLS						
156.RF19	lb/ton BLS						
156.RF19	lb/ton BLS			Summary sheets only; no test report	M		
156.RF19	lb/ton BLS			Summary sheets only; no test report	M		
162.381A	lb/ton BLS						
162.381A	lb/ton BLS						
163.RF1901	lb/ton BLS						
163.RF2904	lb/ton BLS						
163.RF2904	lb/ton BLS						
164.B08,B10 combined	lb/ton BLS						
164.B08,B10 combined	lb/ton BLS						
164.B08,B10 combined	lb/ton BLS						
164.B08,B10 combined	lb/ton BLS						
165.000013	lb/ton BLS						
165.000013	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
165.000006	lb/ton BLS						
165.000006	lb/ton BLS						
166.RB01	lb/ton BLS						
166.RB01	lb/ton BLS						
166.RB02	lb/ton BLS						
169.04	lb/ton BLS						
169.05	lb/ton BLS						
172.RB02							
172.RB01							
174.G-92	lb/ton BLS						
174.G-92	lb/ton BLS						
174.G-32	lb/ton BLS						
175.RB3A	lb/ton BLS						
176.RB7	lb/ton BLS						
177.EU0804	lb/ton BLS						
179.RF3	lb/ton BLS						
181.9	lb/ton BLS						
181.10	lb/ton BLS						
181.49	lb/ton BLS						
181.50	lb/ton BLS						
182.037	lb/ton BLS						
184.73	lb/ton BLS						
184.72	lb/ton BLS						
185.02							
185.02							
185.02							
185.02							
185.02							
185.02							
185.02							
186.RB15	lb/ton BLS						
189.SN26	lb/ton BLS						
190.R402	lb/ton BLS						
190.R402	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
190.R401	lb/ton BLS						
196.SN-14	lb/ton BLS		Yes				
196.SN-06	lb/ton BLS		Yes				
196.SN-06	lb/ton BLS						
197.2	lb/ton BLS						
198.019	lb/ton BLS						
200.007RF2	lb/ton BLS						
200.007RF3	lb/ton BLS						
202.Recovery Furnace EU320	lb/ton BLS						
203.RF#3	lb/ton BLS				Yes	Only 1 run	
203.RF#2	lb/ton BLS						
203.RF#3	lb/ton BLS						
207.038	lb/ton BLS						
207.038	lb/ton BLS						
226.RECB1	lb/ton BLS						
226.RECB1	lb/ton BLS						
240.RF04	lb/ton BLS						
240.RF01	lb/ton BLS						
242.AA-011	lb/ton BLS						
243.R407	lb/ton BLS						
243.R401	lb/ton BLS						
243.R401	lb/ton BLS						
531.RF15	lb/ton BLS						
600.G0806	lb/ton BLS						
600.G0803	lb/ton BLS						
615.24	lb/ton BLS						
615.24	lb/ton BLS						
615.24	lb/ton BLS		M	ODEQ M5 test			
615.24	lb/ton BLS		M	ODEQ M5 test			
617.B14	lb/ton BLS						
115.RE01	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
115.RE01	lb/ton BLS						
105.EU445C	lb/ton BLS		M	ODEQ M5 test			
105.EU445A	lb/ton BLS						No. 3 Recovery ESP Exhaust.
121.000013	lb/ton BLS						
121.000014	lb/ton BLS						
121.000013	lb/ton BLS						
121.000014	lb/ton BLS						
124.019	lb/ton BLS						Separate stacks: RB2 south stack
124.019	lb/ton BLS						Separate stacks: RB2 north stack
130.1							Separate stacks: No. 1 RF North
130.1							Separate stacks: No. 1 RF South
130.2							Separate stacks: No. 2 RF North
130.2							Separate stacks: No. 2 RF South
142.CU7216					Yes	Failed isokinetics	No production data was included. No filter temp
143.7000	lb/ton BLS						No production data was included.
145.54							No production data was included. The PDF only included what appear as field data sheets, commonly provided as an appendix. No filter temp. Converted concentraion to 8% O2
145.55							No production data was included. The PDF only included what appear as field data sheets, commonly provided as an appendix. No filter temp. Converted concentraion to 8% O2
154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	lb/ton BLS						Represnts 2 RFs. RB 1 & 3 Common Stack. Combined production values and averaged.
154.P36 - Recovery Furnace 2	lb/ton BLS						4 test runs
154.P39 - Recovery Furnace 1	lb/ton BLS						
167.005RB	lb/ton BLS						RF ESP has separate stacks.
167.005RB	lb/ton BLS						RF ESP has separate stacks.
171.002	lb/ton BLS						
171.003	lb/ton BLS						
175.RB2A	lb/ton BLS						
188.016RB2	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
188.016RB2	lb/ton BLS		M	ODEQ M5 test			
188.014RB1	lb/ton BLS						
205.009							Separate stacks.
205.009							Separate stacks.
205.009							Total from separate stacks
206.G-31							Corrected to 8% O2
206.G-32							Corrected to 8% O2
613.001L							
613.001R							
613.001L&001R							No. 1 RB ESP - Combined
613.002R							
613.002L							
613.002L&002R							No. 2 RB ESP- Combined
102.RB10	lb/ton BLS						
117.B21	lb/ton BLS						
130.3	lb/ton BLS						
140.55	lb/ton BLS						
146.16	lb/ton BLS						Test report summary table had 0.0172 gr/dscf in initial summary but this did not match the 0.0056 gr/dscf in the detail tables (or the lb/hr rate). Used 0.0056 and corrected to 8% O2.
157.RB2	lb/ton BLS						Separate stacks: Recovery Boiler West Stack
157.RB2	lb/ton BLS						Separate stacks: Recovery Boiler East Stack
157.RB2					Yes	duplicate combining tests above	Recovery Boiler Combined
159.F3	lb/ton BLS						
162.382A							Production rate suspect so did not calculate emission factor.
173.RECOVB	lb/ton BLS						Separate stacks: Old Stack
173.RECOVB	lb/ton BLS						Separate stacks: New Stack
178.08P012	lb/ton BLS						
178.08P013	lb/ton BLS						Run 2 did not meet isokinetic criteria. The value was not included in the averages
180.D001	lb/ton BLS						
190.R400	lb/ton BLS				Yes	31-minute test run	
199.002	lb/ton BLS						
201.SR0001							
340.005	lb/ton BLS						
525.EU18							
606.RB4	lb/ton BLS						

RTI+EUID	Average Lb/Production units	Average Pollutant Removal Efficiency (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
606.RB3	lb/ton BLS						Condition 1: All 3 fields in service. DCE has 2-chamber ESP with 3 fields each.
606.RB3	lb/ton BLS						Condition 2: Two fields in service. DCE has 2-chamber ESP with 3 fields each. Concentration matches report, though would think having 1 ESP field out of service would result in greater emissions than for Condition 1.
606.RB2	lb/ton BLS						Recovery Boiler 2 -Scenario 1 (all ESP fields in service).
606.RB2	lb/ton BLS						Recovery Boiler 2 -Scenario 2 (one ESP field out of service).
610.4, 5							Combined Stacks - Condition 1 Max Liquor Rec. Boilers 1 & 2
610.4, 5							Combined Stacks - Condition 2: 1 ESP Bank down, Maximum Liquor Rec. Boilers 1 & 2 One ESP Side Down Max Liquor Rec. Boiler 2, Oil Fire Rec. Boiler 1
610.4, 5							Combined Stacks - Condition 3: 2 ESP Banks Down, Controlled Liquor Firing Rec. Boilers 1 & 2
610.4, 5							Combined Stacks - Condition 4: One ESP Side Down Maximum Liquor Rec. Boiler 2, Oil Fire Rec. Boiler 1
105.EU445C	lb/ton BLS		M	ODEQ M5 test			
105.EU445C	lb/ton BLS		M	ODEQ M5 test			
105.EU445C	lb/ton BLS		M	ODEQ M5 test			
105.EU445C	lb/ton BLS		M	ODEQ M5 test			
109.RB4	lb/ton BLS						
178.08P013	lb/ton BLS						
178.08P012	lb/ton BLS						
139.02	lb/ton BLS			Exceeds emission lmit			Exceeds emission limit of 0.044 gr/dscf. The limit is stated incorrectly in the report as 0.44. Retested next month.
139.02	lb/ton BLS						Retest
152.03	lb/ton BLS	75.7					Scrubber uses caustic. Scrubber inlet/outlet provided.
152.03	lb/ton BLS						Scrubber uses caustic
152.03	unspecified						
166.RB02	unspecified						Run 3 was discontinued due to problems with the BLOX system. Data was not used for compliance determination. A fourth run was conducted in its place.

le Particulate Matter

	Data analysis notes		Multi-stack sums				
RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
100.037A	100.037A.PM		17.1	0.2911	1	17.1	0.2911
103.G-158	103.G-158.PM		26.28	0.2864	2	26.28	0.2864
105.EU445C	105.EU445C.PM		12.69	0.2149	3	12.69	0.2149
107.08-P1	107.08-P1.PM		10.73	0.1168	4	10.73	0.1168
108.RB3	108.RB3.PM		4.859	0.0456	5	4.859	0.0456
109.RB3	109.RB3.PM		28.7	0.5180	6	28.7	0.5180
109.RB4	109.RB4.PM	different years	28.5	0.3050	7	28.5	0.3050
111.G-44	111.G-44.PM		6.83	0.0772	8	6.83	0.0772
114.U500	114.U500.PM	Separate conditions: RF (low load; 2 chambers)	25.84	0.3238	9	25.84	0.3238
114.U500	114.U500.PM	Separate conditions: RF (high load; 3 chambers)	34.63	0.3273	10	34.63	0.3273
116.003	116.003.PM		20.61	0.2170	11	20.61	0.2170
119.EQT008	119.EQT008.PM		12.66	0.2142	12	12.66	0.2142
119.EQT010	119.EQT010.PM	different dates w/in same year	46.764	0.6928	13	46.764	0.6928
119.EQT010	119.EQT010.PM	different dates w/in same year	26.92	0.4307	14	26.92	0.4307
120.F7	120.F7.PM		25.33	0.2434	15	25.33	0.2434
124.001	124.001.PM	separate stacks			16		
124.001	124.001.PM	separate stacks	2.252	0.038827586	17	2.252	0.038827586
126.RECOV	126.RECOV.PM	Separate conditions: Recovery Furnace West Stack 1st Set			18		
126.RECOV	126.RECOV.PM	Separate conditions: Recovery Furnace East Stack 1st Set	25.241	0.489166667	19	25.241	0.489166667
126.RECOV	126.RECOV.PM	Separate stacks/conditions: Recovery Furnace West Stack 2nd Set. A second set of particulate tests (3 one-hour runs) was run on the recovery furnace with the west side inlet slide gates closed slightly to balance flue gas flow between the east and west sides.			20		
126.RECOV	126.RECOV.PM	Separate stacks/conditions: Recovery Furnace East Stack 2nd Set. A second set of particulate tests (3 one-hour runs) was run on the recovery furnace with the west side inlet slide gates closed slightly to balance flue gas flow between the east and west sides.	19.972	0.387054264	21	19.972	0.387054264
127.REC1N	127.REC1N.PM	separate stacks			22		
127.REC1N	127.REC1N.PM	separate stacks	12.423	0.171351724	23	12.423	0.171351724
131.6	131.6.PM		15.2	0.2425	24	15.2	0.2425
131.5	131.5.PM	Separate conditions: Recovery Furnace 4	29.8	0.4691	25	29.8	0.4691
131.5	131.5.PM	Separate conditions: Recovery Furnace 4 (both ESP chambers and all fields operating) (Condition #1)	5.6	unspecified	26	5.6	unspecified
131.5	131.5.PM	Separate conditions: Recovery Furnace 4 (1-2 fields out of service) (Condition #2 and #3)	9.8	unspecified	27	9.8	unspecified
132.5RB	132.5RB.PM	separate stacks			28		
132.5RB	132.5RB.PM	separate stacks	8.976	0.128706625	29	8.976	0.128706625
132.4RB	132.4RB.PM		9.905	0.1563	30	9.905	0.1563
133.10	133.10.PM	different dates w/in same year	2.46125	unspecified	31	2.46125	unspecified
133.10	133.10.PM	different dates w/in same year	18.35416667	unspecified	32	18.35416667	unspecified

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
135.003-1	135.003-1.PM	Separate conditions: Recovery Boiler (three ESP chambers in Operation)	34.8	0.3153	33	34.8	0.3153
135.003-1	135.003-1.PM	Separate conditions: Recovery Boiler (two ESP chambers in Operation)	20.2	0.1830	34	20.2	0.1830
136.EU 005	136.EU 005.PM		19.4	0.1724	35	19.4	0.1724
137.721	137.721.PM		8.1	0.0855	36	8.1	0.0855
137.189	137.189.PM		9.99	0.3648	37	9.99	0.3648
138.002	138.002.PM		16.816	0.2946	38	16.816	0.2946
142.CU7214	142.CU7214.PM		2.96	0.0790	39	2.96	0.0790
143.7010	143.7010.PM		1.1	0.0615	40	1.1	0.0615
143.7020	143.7020.PM		4.41	0.1639	41	4.41	0.1639
146.8	146.8.PM	separate stacks			42		
146.8	146.8.PM	separate stacks	24.319	0.3155	43	24.319	0.3155
147.14	147.14.PM	separate stacks			44		
147.14	147.14.PM	separate stacks	16.5	0.278011794	45	16.5	0.278011794
147.5	147.5.PM	different years	21.4	0.2140	46	21.4	0.2140
147.5	147.5.PM	different years	24.4	0.2503	47	24.4	0.2503
148.007	148.007.PM		21.7	0.2654	48	21.7	0.2654
148.001	148.001.PM		17.9	0.3057	49	17.9	0.3057
150.CREC-1	150.CREC-1.PM		33.6	unspecified	50	33.6	unspecified
152.03	152.03.PM	Separate conditions: Recovery Furnace - Condition 1 (Operating 5 ESPs)	58.37	0.9000	51	58.37	0.9000
152.03	152.03.PM	Separate conditions: Recovery Furnace - Condition 2 (Operating 6 ESPs)	47.18	0.7000	52	47.18	0.7000
155.RECOVERY FURNACE	155.RECOVERY FURNACE.PM		48.6	0.6761	53	48.6	0.6761
156.RF22	156.RF22.PM	different dates w/in same year	2.43	0.0279	54	2.43	0.0279
156.RF22	156.RF22.PM	different dates w/in same year	2.06	0.0286	55	2.06	0.0286

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
156.RF22	156.RF22.PM	different dates w/in same year	2.95	0.0574	56	2.95	0.0574
156.RF22	156.RF22.PM	different dates w/in same year	0.57	0.0087	57	0.57	0.0087
156.RF18	156.RF18.PM	different dates w/in same year	1.27	0.0344	58	1.27	0.0344
156.RF18	156.RF18.PM	different dates w/in same year	5.45	0.1267	59	5.45	0.1267
156.RF19	156.RF19.PM	different dates w/in same year	2.33	0.0424	60	2.33	0.0424
156.RF19	156.RF19.PM	different dates w/in same year	9.74	0.1498	61	9.74	0.1498
156.RF19	156.RF19.PM	Two 3-run tests on same day -reason unspecified	3.24	0.0572	62	3.24	0.0572
156.RF19	156.RF19.PM	Two 3-run tests on same day -reason unspecified	4.57	0.0806	63	4.57	0.0806
162.381A	162.381A.PM	different dates w/in same year	11	0.2095	64	11	0.2095
162.381A	162.381A.PM	different dates w/in same year	9.1	0.1733	65	9.1	0.1733
163.RF1901	163.RF1901.PM		7.2	0.0874	66	7.2	0.0874
163.RF2904	163.RF2904.PM	separate stacks			67		
163.RF2904	163.RF2904.PM	separate stacks	25.6	0.39131764	68	25.6	0.39131764
164.B08,B10 combined	164.B08,B10 combined.PM	separate stacks and different years. Flue gasses from B08 and B10 recovery furnaces combine and then split off to the two 3 field ESPs, C03 and C04.			69		
164.B08,B10 combined	164.B08,B10 combined.PM	separate stacks and different years. Flue gasses from B08 and B10 recovery furnaces combine and then split off to the two 3 field ESPs, C03 and C04.	32.32	0.773575874	70	32.32	0.773575874
164.B08,B10 combined	164.B08,B10 combined.PM	separate stacks and different years. Flue gasses from B08 and B10 recovery furnaces combine and then split off to the two 3 field ESPs, C03 and C04.			71		
164.B08,B10 combined	164.B08,B10 combined.PM	separate stacks and different years. Flue gasses from B08 and B10 recovery furnaces combine and then split off to the two 3 field ESPs, C03 and C04.	37.517	0.957358345	72	37.517	0.957358345
165.000013	165.000013.PM	separate stacks			73		
165.000013	165.000013.PM	separate stacks	31.83	0.6435	74	31.83	0.6435

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
165.000006	165.000006.PM	separate stacks			75		
165.000006	165.000006.PM	separate stacks	40.68	0.4457	76	40.68	0.4457
166.RB01	166.RB01.PM	separate stacks			77		
166.RB01	166.RB01.PM	separate stacks	21.5	0.3129	78	21.5	0.3129
166.RB02	166.RB02.PM	different dates	57.9	0.7013	79	57.9	0.7013
169.04	169.04.PM		11.79	0.1535	80	11.79	0.1535
169.05	169.05.PM		15.38	0.1900	81	15.38	0.1900
172.RB02	172.RB02.PM		19.75	unspecified	82	19.75	unspecified
172.RB01	172.RB01.PM		17.63	unspecified	83	17.63	unspecified
174.G-92	174.G-92.PM	separate stacks			84		
174.G-92	174.G-92.PM	separate stacks	26.2	0.517786561	85	26.2	0.517786561
174.G-32	174.G-32.PM		16.1	0.1157	86	16.1	0.1157
175.RB3A	175.RB3A.PM		45.168	0.3758	87	45.168	0.3758
176.RB7	176.RB7.PM		6.43	0.0986	88	6.43	0.0986
177.EU0804	177.EU0804.PM		19.061	0.2283	89	19.061	0.2283
179.RF3	179.RF3.PM		21.09	0.2262	90	21.09	0.2262
181.9	181.9.PM	Same emission unit as 181.10 (separate stacks)	12.26666667	0.2275	91	12.26666667	0.2275
181.10	181.10.PM	Same emission unit as 181.9 (separate stacks)	22.86666667	0.4241	92	22.86666667	0.4241
181.49	181.49.PM	Same emission unit as 181.50 (separate stacks)	10.8	0.3210	93	10.8	0.3210
181.50	181.50.PM	Same emission unit as 181.49 (separate stacks)	6.1	0.1810	94	6.1	0.1810
182.037	182.037.PM		3.4767	0.0541	95	3.4767	0.0541
184.73	184.73.PM		7.792	0.0870	96	7.792	0.0870
184.72	184.72.PM		4.987	0.0887	97	4.987	0.0887
185.02	185.02.PM	different dates w/in same year	26.84532857	unspecified	98	26.84532857	unspecified
185.02	185.02.PM	different dates w/in same year	22.93875429	unspecified	99	22.93875429	unspecified
185.02	185.02.PM	different dates w/in same year	37.23893143	unspecified	100	37.23893143	unspecified
185.02	185.02.PM	different dates w/in same year	36.42705574	unspecified	101	36.42705574	unspecified
185.02	185.02.PM	different dates w/in same year	26.63402451	unspecified	102	26.63402451	unspecified
185.02	185.02.PM	different dates w/in same year	20.37712286	unspecified	103	20.37712286	unspecified
185.02	185.02.PM	different dates w/in same year	22.5774	unspecified	104	22.5774	unspecified
186.RB15	186.RB15.PM		11.06	0.0890	105	11.06	0.0890
189.SN26	189.SN26.PM		20.67	0.1827	106	20.67	0.1827
190.R402	190.R402.PM	separate stacks			107		
190.R402	190.R402.PM	separate stacks	7.6	0.104347826	108	7.6	0.104347826

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
190.R401	190.R401.PM		8	0.1782	109	8	0.1782
196.SN-14	196.SN-14.PM		14.46	0.1283	110	14.46	0.1283
196.SN-06	196.SN-06.PM	different years	13.76	0.1926	111	13.76	0.1926
196.SN-06	196.SN-06.PM	different years	18.66	0.2357	112	18.66	0.2357
197.2	197.2.PM		4.61	0.3033	113	4.61	0.3033
198.019	198.019.PM		26.24	0.2330	114	26.24	0.2330
200.007RF2	200.007RF2.PM		1.45	0.0355	115	1.45	0.0355
200.007RF3	200.007RF3.PM		41.18	0.5252	116	41.18	0.5252
202.Recovery Furnace EU320	202.Recovery Furnace EU320.PM		7.08	0.1229	117	7.08	0.1229
203.RF#3	203.RF#3.PM		6.8	0.0675	118	6.8	0.0675
203.RF#2	203.RF#2.PM		2.271	0.1296	119	2.271	0.1296
203.RF#3	203.RF#3.PM		2.759	0.0264	120	2.759	0.0264
207.038	207.038.PM	separate stacks			121		
207.038	207.038.PM	separate stacks	4.86	0.259476775	122	4.86	0.259476775
226.RECB1	226.RECB1.PM	separate stacks			123		
226.RECB1	226.RECB1.PM	separate stacks	12.9	0.16433121	124	12.9	0.16433121
240.RF04	240.RF04.PM		23.87	0.1995	125	23.87	0.1995
240.RF01	240.RF01.PM		8.4	0.1242	126	8.4	0.1242
242.AA-011	242.AA-011.PM		31.86	0.2518	127	31.86	0.2518
243.R407	243.R407.PM		37.63	0.3071	128	37.63	0.3071
243.R401	243.R401.PM	separate stacks			129		
243.R401	243.R401.PM	separate stacks	6.35	0.0778	130	6.35	0.0778
531.RF15	531.RF15.PM		35.2	0.2347	131	35.2	0.2347
600.G0806	600.G0806.PM		17.2	0.1650	132	17.2	0.1650
600.G0803	600.G0803.PM		26.39	0.3096	133	26.39	0.3096
615.24	615.24.PM	Separate stacks/separate methods: Chemical Recovery Furnace - West Stack Front Half			134		
615.24	615.24.PM	Separate stacks/separate methods: Chemical Recovery Furnace - East Stack Front Half	33.84	0.511769953	135	33.84	0.511769953
615.24	615.24.PM	Separate stacks/separate methods: Chemical Recovery Furnace - West Stack ODEQ 5			136		
615.24	615.24.PM	Separate stacks/separate methods: Chemical Recovery Furnace - East Stack ODEQ 5	39.66	0.599787125	137	39.66	0.599787125
617.B14	617.B14.PM		5.59	0.1456	138	5.59	0.1456
115.RE01	115.RE01.PM	separate stacks			139		

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
115.RE01	115.RE01.PM	separate stacks	11.924	0.135808656	140	11.924	0.135808656
105.EU445C	105.EU445C.PM		22.56	0.3500	141	22.56	0.3500
105.EU445A	105.EU445A.PM		13.98	0.2369	142	13.98	0.2369
121.000013	121.000013.PM		12	0.3519	143	12	0.3519
121.000014	121.000014.PM		9.2	0.2690	144	9.2	0.2690
121.000013	121.000013.PM	different years	7.3	0.1872	145	7.3	0.1872
121.000014	121.000014.PM	different years	5.3	0.1359	146	5.3	0.1359
124.019	124.019.PM	Separate stacks			147		
124.019	124.019.PM	Separate stacks	32.853	0.566431034	148	32.853	0.566431034
130.1	130.1.PM	Separate stacks			149		
130.1	130.1.PM	Separate stacks	12.4		150	12.4	
130.2	130.2.PM	Separate stacks			151		
130.2	130.2.PM	Separate stacks	9.61		152	9.61	
142.CU7216	142.CU7216.PM		4.05		153	4.05	
143.7000	143.7000.PM		3.08	0.1738	154	3.08	0.1738
145.54	145.54.PM		3.15		155	3.15	
145.55	145.55.PM		6.74		156	6.74	
154.P39 and P37 - Recovery Furnace 1 and Recovery Furnace 3	154.P39 and P37 - Recovery Furnace 1 a	Common stack (represents 2 RFs)	24.151	0.3887	157	24.151	0.3887
154.P36 - Recovery Furnace 2	154.P36 - Recovery Furnace 2.PM		10.624	0.3109	158	10.624	0.3109
154.P39 - Recovery Furnace 1	154.P39 - Recovery Furnace 1.PM		5.74	0.1754	159	5.74	0.1754
167.005RB	167.005RB.PM	Separate stacks			160		
167.005RB	167.005RB.PM	Separate stacks	33.6	0.602	161	33.6	0.602
171.002	171.002.PM		22.8	0.8385	162	22.8	0.8385
171.003	171.003.PM		17.5	0.6331	163	17.5	0.6331
175.RB2A	175.RB2A.PM		7.67	0.2458	164	7.67	0.2458
188.016RB2	188.016RB2.PM	Separate methods (M5)	8.97	0.3200	165	8.97	0.3200

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
188.016RB2	188.016RB2.PM	Separate methods (ORDEQ5)	10.36	0.3696	166	10.36	0.3696
188.014RB1	188.014RB1.PM		3.93	0.1396	167	3.93	0.1396
205.009	205.009.PM	Separate stacks			168		
205.009	205.009.PM	Separate stacks	14.2		169	14.2	
205.009	205.009.PM		14.2		170	14.2	
206.G-31	206.G-31.PM		16.808		171	16.808	
206.G-32	206.G-32.PM		21.279		172	21.279	
613.001L	613.001L.PM	Separate stacks			173		
613.001R	613.001R.PM	Separate stacks	32.24		174	32.24	
613.001L&001R	613.001L&001R.PM		32.24		175	32.24	
613.002R	613.002R.PM	Separate stacks			176		
613.002L	613.002L.PM	Separate stacks	12.08		177	12.08	
613.002L&002R	613.002L&002R.PM		12.08		178	12.08	
102.RB10	102.RB10.PM		11.9	0.1017	179	11.9	0.1017
117.B21	117.B21.PM		7.19	0.3829	180	7.19	0.3829
130.3	130.3.PM		3.19	0.0670	181	3.19	0.0670
140.55	140.55.PM		12.45833333	0.2300	182	12.45833333	0.2300
146.16	146.16.PM		11.848	0.1038	183	11.848	0.1038
157.RB2	157.RB2.PM	Separate stacks			184		
157.RB2	157.RB2.PM	Separate stacks	33.7	1.004720497	185	33.7	1.004720497
157.RB2	157.RB2.PM		33.6		186	33.6	
159.F3	159.F3.PM		26.847	0.8369	187	26.847	0.8369
162.382A	162.382A.PM		22		188	22	
173.RECOVB	173.RECOVB.PM	Separate stacks			189		
173.RECOVB	173.RECOVB.PM	Separate stacks	8.07	0.184246575	190	8.07	0.184246575
178.08P012	178.08P012.PM	different years	25	0.4800	191	25	0.4800
178.08P013	178.08P013.PM	different years	20	0.3800	192	20	0.3800
180.D001	180.D001.PM		8.4	0.1024	193	8.4	0.1024
190.R400	190.R400.PM		11.666	0.2468	194	11.666	0.2468
199.002	199.002.PM		23.5	0.3082	195	23.5	0.3082
201.SR0001	201.SR0001.PM		34.167		196	34.167	
340.005	340.005.PM		28.32	0.5941	197	28.32	0.5941
525.EU18	525.EU18.PM		8.3		198	8.3	
606.RB4	606.RB4.PM		36.448	0.5836	199	36.448	0.5836

RTI+EUID	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
606.RB3	606.RB3.PM	Separate conditions	26.666	0.6837	200	26.666	0.6837
606.RB3	606.RB3.PM	Separate conditions	3.301	0.0846	201	3.301	0.0846
606.RB2	606.RB2.PM	Separate conditions	16.46	0.2504	202	16.46	0.2504
606.RB2	606.RB2.PM	Separate conditions	25.061	0.3700	203	25.061	0.3700
610.4, 5	610.4, 5 .PM	Combined stacks and separate conditions	32.36		204	32.36	
610.4, 5	610.4, 5 .PM	Combined stacks and separate conditions	39.87		205	39.87	
610.4, 5	610.4, 5 .PM	Combined stacks and separate conditions	44.61		206	44.61	
610.4, 5	610.4, 5 .PM	Combined stacks and separate conditions	46.34		207	46.34	
105.EU445C	105.EU445C.PM	different dates within same year	25.06	0.4042	208	25.06	0.4042
105.EU445C	105.EU445C.PM	different dates within same year	21.9	0.3699	209	21.9	0.3699
105.EU445C	105.EU445C.PM	different dates within same year	24.58	0.4256	210	24.58	0.4256
105.EU445C	105.EU445C.PM	different dates within same year	24.35	0.4590	211	24.35	0.4590
109.RB4	109.RB4.PM	different years	40.48933333	0.4930	212	40.48933333	0.4930
178.08P013	178.08P013.PM	different years	32.17	0.5340	213	32.17	0.5340
178.08P012	178.08P012.PM	different years	20.12	0.3337	214	20.12	0.3337
139.02	139.02.PM		66.9	1.2606	215	66.9	1.2606
139.02	139.02.PM		23.38584712	0.3783	216	23.38584712	0.3783
152.03	152.03.PM	different dates	30.45	0.4333	217	30.45	0.4333
152.03	152.03.PM	different dates	51.8	0.7650	218	51.8	0.7650
152.03	152.03.PM	different dates	49.94	unspecified	219	49.94	unspecified
166.RB02	166.RB02.PM	different dates	24.44	unspecified	220	24.44	unspecified

Appendix B

Particulate Matter Emissions Data for Lime Kilns

Appendix B: Pulp and Paper Emissions Test Data Spreadsheet for NSPS Review - Lime Kiln Filterable Particulate Matter

General Information

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI40686_RTI100_DomtarJohnsonburgMill_ MACT II Test Report_July2004.pdf	100	NEI40686	115	100.115	100--C24	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2011-Q1 LK-RB10-SDTV10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2011-Q1 LK-RB10-SDTV10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI9201_Lime Kiln Particulate Test Results August 28, 2008/ NEI9201_20080801 PM&TRS LK5-d.pdf	103	NEI9201	G-165	103.G-165	103--LK5VS/LK5BAG	SCBR		Kraft	Lime Kiln
2010_PM_Lime_Kiln,_No_4_Rec_and_No_4_Smelt.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110, CD445-480, and CD 445-447	ESP		Kraft, Secondary	Lime Kiln
SECTION 2.pdf/ SECTION 7.pdf	107	NEI47074	11-P14	107.11-P14	107--11-P13	ESP		Kraft	Lime Kiln
2004 LK RB1-2 Stack Test.pdf	108	NEI33025	LK1	108.LK1	108--LKSCRB	SCBR	None	Kraft	Lime Kiln
2004 LK RB1-2 Stack Test.pdf	108	NEI33025	LK1	108.LK1	108--LKSCRB	SCBR	None	Kraft	Lime Kiln
2004 LK RB1-2 Stack Test.pdf	108	NEI33025	LK1	108.LK1	108--LKSCRB	SCBR	None	Kraft	Lime Kiln
NEI45206_P&P Survey_2009 LK NOx and PM Test Report WITH APPE.pdf	111	NEI45206	G-35	111.G-35	111--LK ESP	ESP	NA	Kraft	Lime Kiln
NEI45206_P&P Survey_2009 LK NOx and PM Test Report WITH APPE.pdf	111	NEI45206	G-35	111.G-35	111--LK ESP	ESP	NA	Kraft	Lime Kiln
NEI26506_PM_December_2008.pdf	114	NEI26506	U800	114.U800	114--CDU7	ESP		Kraft	Lime Kiln
NEI26506_PM_December_2008.pdf	114	NEI26506	U800	114.U800	114--CDU7	ESP		Kraft	Lime Kiln
Lime Kilns, Smelt Tank and Recovery Furnace Emissions Test Report_NEI26495.pdf	120	NEI26495	M19	120.M19	120--LK2S	SCBR		Kraft	Lime Kiln
Lime Kilns, Smelt Tank and Recovery Furnace Emissions Test Report_NEI26495.pdf	120	NEI26495	M18	120.M18	120--LK1S	SCBR		Kraft	Lime Kiln
0910-29 LIME KILN COMPLIANCE.pdf	124	NEI8278	004-1	124.004-1	124--mc004, lksbr004	SCBR	low nox burner	Kraft	Lime Kiln
NEI 42317 Hopewell VA Dec 2009 LK TSP.pdf	126	NEI42317	LK	126.LK	126--LKPPT, LKScr	ESP/SCBR		Kraft	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 4 and 5, 2011.pdf	127	NEI7933	LK2	127.LK2	127--ESP2	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 4 and 5, 2011.pdf	127	NEI7933	LK1	127.LK1	127--ESP1	ESP		Kraft, Secondary	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	18	131.18	131--CZ11-1	SCBR		Kraft, Secondary	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	18	131.18	131--CZ11-1	SCBR		Kraft, Secondary	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	18	131.18	131--CZ11-1	SCBR		Kraft, Secondary	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	18	131.18	131--CZ11-1	SCBR		Kraft, Secondary	Lime Kiln
2010 LK4.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2010 - LK(NOx-PM).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2008-05-13 #4 LK Particulate Matter Horizon.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP/PBSCBR		Kraft	Lime Kiln
Mill code 139 part 2.pdf	139	NEI42357	04	139.04	139--LKSCBR	SCBR		Kraft, Secondary	Lime Kiln
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 RB PM_November 2009.pdf	143	NEI26504	6063	143.6063	143--C009	ESP		Kraft	Lime Kiln
Lime Kiln Part Testing.pdf	145	NEI33135	001	145.001	145--	SCBR		Kraft	Lime Kiln
NEI759 TSP Testing 2008 part 1.pdf	146	NEI759	30	146.30	146--LK201/LK202	ESP/SCBR		Kraft	Lime Kiln
NEI759 EUID6 No1LK2009.pdf	146	NEI759	6	146.6	146--LK101	SCBR		Kraft	Lime Kiln
No1LimeKilnStackTest2010.pdf	147	NEI6450	3	147.3	147--C-827	SCBR	None	Kraft	Lime Kiln
No7LimeKilnStackTest2010.pdf	147	NEI6450	55	147.55	147--C-829	ESP	None	Kraft	Lime Kiln
No7LimeKilnStackTest2010.pdf	147	NEI6450	55	147.55	147--C-829	ESP	None	Kraft	Lime Kiln
NEI46931_5 25-27 2010 No. 1 LK & No. 2 LK Compliance Test Report.pdf	148	NEI46931	003	148.003	148--LK1SCB	SCBR	primary air	Kraft, Secondary	Lime Kiln
NEI46931_5 25-27 2010 No. 1 LK & No. 2 LK Compliance Test Report.pdf	148	NEI46931	009	148.009	148--LK2ESP	ESP	primary air	Kraft, Secondary	Lime Kiln
150 NewPage Rumford TRC 2009 Report_Lime Kiln_PM and NOx.pdf	150	NEI6273	CAU-12	150.CAU-12	150--SCRBLK	SCBR		Kraft, Mechanical	Lime Kiln
NEI46739 Kiln PM December 2010 - On Oil.pdf	154	NEI46739	P30 - Lime Kiln	154.P30 - Lime Kiln	154--C05 and C06	ESP/SCBR		Kraft	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
M52010LK4.pdf	156	NEI42338	145000	156.145000	156--LK04WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK4.pdf	156	NEI42338	145000	156.145000	156--LK04WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK4.pdf	156	NEI42338	145000	156.145000	156--LK04WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK4.pdf	156	NEI42338	145000	156.145000	156--LK04WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK3.pdf	156	NEI42338	143100	156.143100	156--LK03WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK3.pdf	156	NEI42338	143100	156.143100	156--LK03WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
M52010LK3.pdf	156	NEI42338	143100	156.143100	156--LK03WS	SCBR	Wet scrubber	Unknown (Kraft & Semi-chem)	Lime Kiln
Lime Kiln PM Emissions Test Report (NEI18177).pdf	159	NEI8177	F4	159.F4	159--CD03	SCBR		Kraft	Lime Kiln
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace CO NOx SO/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul2/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul3.pdf	162	NEI46760	372A	162.372A	162--372AESP	ESP		Kraft	Lime Kiln
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace CO NOx SO/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul2/P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 recovery furnace particul3.pdf	162	NEI46760	371A	162.371A	162--371ASCRUB	SCBR		Kraft	Lime Kiln
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Lime Kiln testing.pdf	163	NEI8560	LK1501	163.LK1501	163--LK1SCR	SCBR		Kraft, Secondary	Lime Kiln
RTI163_International Paper - Prattville Mill_NEI8560_No 2 Lime Kiln testing.pdf	163	NEI8560	LK2502	163.LK2502	163--LK2SCR	SCBR		Kraft, Secondary	Lime Kiln
Lime Kiln, August 17, 2010.pdf	164	NEI42710	P12	164.P12	164--C17	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	LK01	166.LK01	166--LK01 Scrubber	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK2_TRS_April 2009.PDF	166	NEI41314	LK02	166.LK02	166--LK02 Scrubber	SCBR		Kraft	Lime Kiln
RTI172_International Paper - Riverdale Mill_NEI18335_Oct2009 LK03 (Fuel Oil) PM,NOx,SO2,CO Testing.pdf	172	NEI18335	LK03	172.LK03	172--LK03 Scrubber	SCBR		Kraft, Secondary	Lime Kiln
RTI172_International Paper - Riverdale Mill_NEI18335_Oct2009 LK03 (Natural Gas) PM,NOx,SO2,CO Testing.pdf	172	NEI18335	LK03	172.LK03	172--LK03 Scrubber	SCBR		Kraft, Secondary	Lime Kiln
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-18	174.G-18	174--G-18 ESP/G-18 SCRUB, G-32 ESP, G-92 ESP, G-63B SCRUB, G-63C EWSCRUB	ESP/SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (7).pdf	175	NEI26514	LK2A	175.LK2A	175--LK2B	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (7).pdf	175	NEI26514	LK2A	175.LK2A	175--LK2B	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (8).pdf	175	NEI26514	LK1A	175.LK1A	175--LK1B	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (8).pdf	175	NEI26514	LK1A	175.LK1A	175--LK1B	SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (9).pdf	175	NEI26514	LK1A	175.LK1A	175--LK1B	SCBR		Kraft	Lime Kiln
IP PENSACOLA JUNE 10 LK COMP REPORT.pdf	178	NEI26309	09P037	178.09P037	178--09P37A	ESP/SCBR		Kraft	Lime Kiln
IP PENSACOLA JUNE 10 LK COMP REPORT.pdf	178	NEI26309	09P037	178.09P037	178--09P37A	ESP/SCBR		Kraft	Lime Kiln
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_LKTest2010.pdf	179	NEI45474	LK3	179.LK3	179--LK3ESP	ESP		Kraft	Lime Kiln
NEI26471_No1_Lime_Kiln_PM_NOx_Compliance,_TRS_RATA_2010-0324[1].pdf	180	NEI26471	L001	180.L001	180--L01S	SCBR		Kraft, Secondary	Lime Kiln
NEI26471_No2_Lime_Kiln_PM_NOx_Compliance,_TRS_RATA_2010-0325[1].pdf	180	NEI26471	L002	180.L002	180--L02S	SCBR		Kraft, Secondary	Lime Kiln
LimeKiln#2_EmissionsTest2004_Part1.pdf	184	NEI46817	LK2	184.LK2	184--11	SCBR		Kraft	Lime Kiln
LimeKiln#2_EmissionsTest2004_Part1.pdf	184	NEI46817	LK2	184.LK2	184--11	SCBR		Kraft	Lime Kiln
LimeKiln#1 Compliance Test2010.pdf	184	NEI46817	LK1	184.LK1	184--10	SCBR		Kraft	Lime Kiln
LimeKiln#1 Compliance Test2010.pdf	184	NEI46817	LK1	184.LK1	184--10	SCBR		Kraft	Lime Kiln
2009.01 4LK PM.pdf	185	NEI46599	07	185.07	185--LK4SCB	SCBR		Kraft	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2009.04 4LK PM.pdf	185	NEI46599	07	185.07	185--LK4SCB	SCBR		Kraft	Lime Kiln
2009.07 4LK PM.pdf	185	NEI46599	07	185.07	185--LK4SCB	SCBR		Kraft	Lime Kiln
2009.10 4LK PM.pdf	185	NEI46599	07	185.07	185--LK4SCB	SCBR		Kraft	Lime Kiln
2009 Annual PM.pdf	186	NEI18334	LK	186.LK	186--LKESP/LK27	ESP/SCBR		Kraft	Lime Kiln
GP Crossett No. 4 Lime Kiln (SN-25) Compliance Testing 2011.pdf	189	NEI54342	SN25	189.SN25	189--SN25S	SCBR		Kraft	Lime Kiln
GP Crossett No. 4 Lime Kiln (SN-25) Compliance Testing 2011.pdf	189	NEI54342	SN25	189.SN25	189--SN25S	SCBR		Kraft	Lime Kiln
2010 Domtar Compliance Testing Part 1 of 6.pdf	196	NEI18660	SN-02	196.SN-02	196--SN-02	ESP	ESP (dry)	Kraft	Lime Kiln
RecBoiler_LimeKiln_HogBoiler_SmeltTank_ComplianceTest2008.pdf	197	NEI18657	1	197.1	197--VENTSCR, PEABODYSCR, DUSTSCR	SCBR		Kraft	Lime Kiln
NEI41565 Lime Kiln Particulate Testing 9-9-05.pdf	198	NEI41565	004	198.004	198--004_CD	SCBR		Kraft, Mechanical, Secondary	Lime Kiln
NEI18390_011_PM_2011.pdf	199	NEI18390	011	199.011	199--Z032	SCBR		Kraft	Lime Kiln
NEI47077 BOWATER CATAWBA APR 10 COMP REPORT.pdf	200	NEI47077	007_10	200.007_10	200--2723C	ESP	low NOx burners	Kraft, Mechanical	Lime Kiln
NEI7559Lime Kiln-69-04Comp2007Petcoke.pdf	201	NEI7559	SR0003	201.SR0003	201--LKS	SCBR		Kraft, Mechanical, Secondary	Lime Kiln
1106-104_Boise White Paper_Lime Kiln.pdf	202	NEI12411	Lime Kiln EU340	202.Lime Kiln EU340	202--CE341 and CE340	SCBR		Kraft	Lime Kiln
2011 02 LK PM.pdf	203	NEI42410	LKScr	203.LKScr	203--LKScr-Scr	SCBR	Secondary air	Kraft, Sulfite-Na	Lime Kiln
2011 03 LK PM.pdf	203	NEI42410	LKScr	203.LKScr	203--LKScr-Scr	SCBR	Secondary air	Kraft, Sulfite-Na	Lime Kiln
2011 04 LK PM SO2.pdf	203	NEI42410	LKScr	203.LKScr	203--LKScr-Scr	SCBR	Secondary air	Kraft, Sulfite-Na	Lime Kiln
2011 03 LK PM.pdf	203	NEI42410	LKScr	203.LKScr	203--LKScr-Scr	SCBR	Secondary air	Kraft, Sulfite-Na	Lime Kiln
RTI206_BRPLK#511.13.2007.pdf	206	NEI40282	G-38	206.G-38	206--LK5 DEM/LK5 SCRUB	SCBR		Kraft	Lime Kiln
NEI7104 - 2011 Recovery Boiler and Lime Kiln.pdf	207	NEI7104	103A	207.103A	207--C23	SCBR	use hot, fresh water for lime mud washing to reduce soda in mud (sulfur)	Kraft	Lime Kiln
NEI7104 - 2011 Recovery Boiler and Lime Kiln.pdf	207	NEI7104	103A	207.103A	207--C23	SCBR	use hot, fresh water for lime mud washing to reduce soda in mud (sulfur)	Kraft	Lime Kiln
NEI7104 - 2011 Recovery Boiler and Lime Kiln.pdf	207	NEI7104	103A	207.103A	207--C23	SCBR	use hot, fresh water for lime mud washing to reduce soda in mud (sulfur)	Kraft	Lime Kiln
NEI7104 - 2011 Recovery Boiler and Lime Kiln.pdf	207	NEI7104	103A	207.103A	207--C23	SCBR	use hot, fresh water for lime mud washing to reduce soda in mud (sulfur)	Kraft	Lime Kiln
NEI33023_LK1_2004_PM.pdf	226	NEI33023	LK1	226.LK1	226--LKS1	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
NEI33023_LK2_2004_PM.pdf	226	NEI33023	LK2	226.LK2	226--LKS2	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
Rayonier Jesup DLK PM test 03_16_10.pdf	240	NEI26526	CA81	240.CA81	240--CAC4	ESP		Kraft	Lime Kiln
NEI 34066 Emission Test RB-LK- SDT 2010.pdf	242	NEI34066	AA-013	242.AA-013	242--RC-6a, RC-6b	ESP/SCBR		Kraft	Lime Kiln
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	LG07	243.LG07	243--LEP1, LKS1	ESP/SCBR		Kraft	Lime Kiln
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	LG07	243.LG07	243--LEP1, LKS1	ESP/SCBR		Kraft	Lime Kiln
P_P_ICR Part III_RTI531_InternationalPaper-Savnnah Mill_NEI.pdf	531	NEI8186	LK7	531.LK7	531--AP01	ESP		Kraft, Secondary	Lime Kiln
RTI600_InternationalPaper-CourtlandMill-NEI18357 NOV 10 1-3L.pdf	600	NEI18357	G0908	600.G0908	600--09-CD-03-001	SCBR		Kraft	Lime Kiln
RTI600_InternationalPaper-CourtlandMill-NEI18357 JUN 11 2LK .pdf	600	NEI18357	G0905	600.G0905	600--09-CD-02-001	SCBR		Kraft	Lime Kiln
RTI600_InternationalPaper-CourtlandMill-NEI18357 NOV 10 1-3L.pdf	600	NEI18357	G0903	600.G0903	600--09-CD-01-001	SCBR		Kraft	Lime Kiln
RTI600_InternationalPaper-CourtlandMill-NEI18357 JUN 10 3RF .pdf	600	NEI18357	G0905	600.G0905	600--09-CD-02-001	SCBR		Kraft	Lime Kiln
47091_024_2011_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
ODEQ-Final-Report-LK-TSP-10-22-09. Report.pdf	615	NEI40554	21	615.21	615--LKSCB1	SCBR		Kraft	Lime Kiln
ODEQ-Final-Report-LK-TSP-10-22-09. Report.pdf	615	NEI40554	21	615.21	615--LKSCB1	SCBR		Kraft	Lime Kiln
RTI169-IP-MansfieldMill-NEI33013_2010_Emission_Test_Report-R.pdf	169	NEI33013	03	169.03	169--LKSCRB	SCBR		Kraft, SemiChem	Lime Kiln
2011_0315-17.1.pdf	617	NEI42695	P22	617.P22	617--C10	ESP		Kraft	Lime Kiln
NEI 42317 Hopewell VA Feb 2004 LK MM Compliance.pdf	126	NEI42317	LK	126.LK	126--LKPPT, LKScr	ESP/SCBR		Kraft	Lime Kiln
2007 LK.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2008 LK.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2006 LK.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2005 LK.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2004 All sources.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2003 All sources.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2002 All sources.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2001 All sources.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2009 LK.pdf	132	NEI8261	21LK4	132.21LK4	132--4LKESP	ESP		Kraft, Secondary	Lime Kiln
2001 - LK(PM-VOC-SO2-NOx-CO-TRS-Hg).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2008 - LK(PM) + RB10(PM).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2006 - LK(PM).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2004 - LK(PM).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2002 - LK(PM).pdf	136	NEI12368	EU 033	136.EU 033	136--CE 019	ESP		Kraft	Lime Kiln
2005-06-15 3 LK results PM.pdf	137	NEI26581	511	137.511	137--PC(511)	ESP		Kraft	Lime Kiln
2004-08-12 3LK sub mm results.pdf	137	NEI26581	511	137.511	137--PC(511)	ESP		Kraft	Lime Kiln
2005-04-12 #4 LK Particulate Testing AMTEST.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP		Kraft	Lime Kiln
2005-07-15 4LK Particulate Matter Horizon.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP		Kraft	Lime Kiln
2004-08-12 #4 LK Particulate AMTEST.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP		Kraft	Lime Kiln
2008-05-14 #3 LK Particulate Matter Horizon.pdf	137	NEI26581	511	137.511	137--PC(511)	ESP		Kraft	Lime Kiln
2002-07-18 #4 LK Particulate Testing Interpoll.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP/PBSCBR		Kraft	Lime Kiln
2002-07-16 No. 3 and 4 LK Particulate Testing 118 pg.pdf	137	NEI26581	512	137.512	137--PC(512), PC(512)S	ESP		Kraft	Lime Kiln
NEI759 MACTII Compliance Test.pdf	146	NEI759	30	146.30	146--LK201/LK202	ESP/SCBR		Kraft	Lime Kiln
NEI46739 Kiln PM October 2003.pdf	154	NEI46739	P30 - Lime Kiln	154.P30 - Lime Kiln	154--C05 and C06	ESP		Kraft	Lime Kiln
NEI46739 Kiln PM August 2007.pdf	154	NEI46739	P30 - Lime Kiln	154.P30 - Lime Kiln	154--C05 and C06	ESP/SCBR		Kraft	Lime Kiln
NEI46739 Kiln PM December 2008 - On Oil.pdf	154	NEI46739	P30 - Lime Kiln	154.P30 - Lime Kiln	154--C05 and C06	ESP/SCBR		Kraft	Lime Kiln
NEI46739 Kiln PM August 2009.pdf	154	NEI46739	P30 - Lime Kiln	154.P30 - Lime Kiln	154--C05 and C06	ESP/SCBR		Kraft	Lime Kiln
Lime Kiln 2007.pdf	186	NEI18334	LK	186.LK	186--LKESP/LK27	ESP/SCBR		Kraft	Lime Kiln
Lime Kiln 2006.pdf	186	NEI18334	LK	186.LK	186--LKESP/LK27	ESP/SCBR		Kraft	Lime Kiln
Lime Kiln.pdf	186	NEI18334	LK	186.LK	186--LKESP/LK27	ESP/SCBR		Kraft	Lime Kiln
Lime Kiln 2005.pdf	186	NEI18334	LK	186.LK	186--LKESP/LK27	ESP/SCBR		Kraft	Lime Kiln
8196_2005 Source Compliance Test Report.pdf	243	NEI8196	LG07	243.LG07	243--LEP1, LKS1	ESP/SCBR		Kraft	Lime Kiln
8196_2007 Source Compliance Test Report.pdf	243	NEI8196	LG07	243.LG07	243--LEP1, LKS1	ESP/SCBR		Kraft	Lime Kiln
2007_PE_Lime_Kiln_ESP,_No_4_Rec_Boiler_ESP_and_Smelt_Dis_Tank.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110	ESP		Kraft, Secondary	Lime Kiln
TempleInland-OrangeMill_NEI12492_PPTestReport-2002TestReport.pdf	121	NEI12492	000011	121.000011	121--C-REVB1, C-REVB2	SCBR		Kraft, Secondary	Lime Kiln
TempleInland-OrangeMill_NEI12492_PPTestReport-2004MACTIIReport.pdf	121	NEI12492	000011	121.000011	121--C-REVB1, C-REVB2	SCBR		Kraft, Secondary	Lime Kiln
NEI42341A_PIII_D2a_2008-Q1_LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q1_LK-S2.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI42341A_PIII_D2a_2008-Q2_LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q2_LK-S2.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q3_LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q3_LK-S2.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q4_LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2008-Q4_LK-S2.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q1 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q1 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q2_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q2_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q3_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI42341A_PIII_D2a_2010-Q3_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q4_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2010-Q4_LK-SDTV10-RB10-HFB11.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q1 LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q1 LK-S2.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q2 LK-S1.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q2 LK-S2 final.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q3 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q3 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q4 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln
NEI42341A_PIII_D2a_2009-Q4 LK.pdf	102	NEI42341A	LK	102.LK	102--LK-ESP	ESP		Kraft	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2008_PM_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110	ESP		Kraft, Secondary	Lime Kiln
2008_PM_Lime_Kiln_Exh,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110	ESP		Kraft, Secondary	Lime Kiln
2009_PM_No_3_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110	ESP		Kraft, Secondary	Lime Kiln
2009_PM_No_3_Lime_Kiln_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU455	105.EU455	105--CD 456-110	ESP		Kraft, Secondary	Lime Kiln
SECTION 2.pdf	107	NEI47074	11-P14	107.11-P14	107--11-P13	ESP		Kraft	Lime Kiln
SECTION 2.pdf	107	NEI47074	11-P14	107.11-P14	107--11-P13	ESP		Kraft	Lime Kiln
Project #1997033 - July 2004.pdf	109	NEI32869A	LK1	109.LK1	109--LKESP	ESP		Kraft	Lime Kiln
NEI32869 PROJECT 2008016 NOV 2008.pdf	109	NEI32869A	LK1	109.LK1	109--LKESP	ESP		Kraft	Lime Kiln
NEI26506_Lime_Kiln_December_2005.pdf	114	NEI26506	U800	114.U800	114--CDU7	ESP		Kraft	Lime Kiln
NEI26506_Lime_Kiln_December_2005.pdf	114	NEI26506	U800	114.U800	114--CDU7	ESP		Kraft	Lime Kiln
NEI7933_PII - Lime Kilns 1 and 2 - PM - February 16, 2005.pdf	127	NEI7933	LK1	127.LK1	127--ESP1	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 24-25, 2007.pdf	127	NEI7933	LK1	127.LK1	127--ESP1	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 28 and 29, 2009.pdf	127	NEI7933	LK1	127.LK1	127--ESP1	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PII - Lime Kilns 1 and 2 - PM - February 16, 2005.pdf	127	NEI7933	LK2	127.LK2	127--ESP2	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 24-25, 2007.pdf	127	NEI7933	LK2	127.LK2	127--ESP2	ESP		Kraft, Secondary	Lime Kiln
NEI7933_PIII - Lime Kilns 1 and 2 - PM - April 28 and 29, 2009.pdf	127	NEI7933	LK2	127.LK2	127--ESP2	ESP		Kraft, Secondary	Lime Kiln
NEI46931_11 2 2007 No. 2 BB, No. 3 BB, No. 2 LK, No. 1 RF, No. 1 SDT Compliance Test Report.pdf	148	NEI46931	009	148.009	148--LK2ESP	ESP	primary air	Kraft, Secondary	Lime Kiln
NEI46931_5 12-14 2008 No. 1 & 2 LK, No. 1 & 2 RF, No. 1 & 2 SDT Compliance Test Report.pdf	148	NEI46931	009	148.009	148--LK2ESP	ESP	primary air	Kraft, Secondary	Lime Kiln
NEI46931_6 15-17 2009 No. 1 & 2 LK, No. 1 RF, No. 1 SDT Compliance Test Report.pdf	148	NEI46931	009	148.009	148--LK2ESP	ESP	primary air	Kraft, Secondary	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
M52009LK5.pdf	156	NEI42338	LK5	156.LK5	156--LK5ESP	ESP	Electrostatic Precipitator	Unknown (Kraft & Semi-chem)	Lime Kiln
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 2 lime kiln particulate matte.pdf	162	NEI46760	372A	162.372A	162--372AESP	ESP		Kraft	Lime Kiln
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	09P037	178.09P037	178--09P37A	ESP/SCBR		Kraft	Lime Kiln
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	09P037	178.09P037	178--09P37A	ESP/SCBR		Kraft	Lime Kiln
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	09P037	178.09P037	178--09P37A	ESP/SCBR		Kraft	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_LKTest2001.pdf	179	NEI45474	LK3	179.LK3	179--LK3ESP	ESP		Kraft	Lime Kiln
2004 Method 5 Testing - part 1 of 3.pdf	196	NEI18660	SN-02	196.SN-02	196--SN-02	ESP	ESP (dry)	Kraft	Lime Kiln
NEI47077 BOWATER CATAWBA AUG 04 #2&3RF & #2LK COMP RPT.pdf	200	NEI47077	007_10	200.007_10	200--2723C	ESP	low NOx burners	Kraft, Mechanical	Lime Kiln
NEI47077 BOWATER CATAWBA SEP 06 #2 LK EMISSION REPORT.pdf	200	NEI47077	007_10	200.007_10	200--2723C	ESP	low NOx burners	Kraft, Mechanical	Lime Kiln
NEI47077 BOWATER CATAWBA SEP 08 #2 LK PM NOX CO SO2 EMISSION REPORT.pdf	200	NEI47077	007_10	200.007_10	200--2723C	ESP	low NOx burners	Kraft, Mechanical	Lime Kiln
Rayonier Jesup DLK PM test 09_23_03.pdf	240	NEI26526	CA81	240.CA81	240--CAC4	ESP		Kraft	Lime Kiln
47091_024_2008_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
47091_024_2009_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
47091_024_2010_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
47091_024_2010_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
47091_024_2010_PM.pdf	606	NEI47091	LK4	606.LK4	606--ESP1	ESP		Kraft	Lime Kiln
2006_0808-10.1.pdf	617	NEI42695	P22	617.P22	617--C10	ESP		Kraft	Lime Kiln
2007_0821.pdf	617	NEI42695	P22	617.P22	617--C10	ESP		Kraft	Lime Kiln
2010_0317.1.pdf	617	NEI42695	P22	617.P22	617--C10	ESP		Kraft	Lime Kiln
NEI18373_009_Particulate_2009.pdf	208228535	NEI18373	009	208228535.009	208228535--X014	ESP		Unknown (Kraft)	Lime Kiln
NEI18373_009_Particulate_2008.pdf	208228535	NEI18373	009	208228535.009	208228535--X014	ESP		Unknown (Kraft)	Lime Kiln
NEI8619_IP Pine Hill LK 083010.pdf	116	NEI8619	001	116.001	116--LKSCR	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
Lime Kiln 2001.pdf	117	NEI42689	P36	117.P36	117--C53	SCBR		Kraft	Lime Kiln
Lime Kiln April 2008.pdf	119	NEI46814	EQT006	119.EQT006	119--SCBR05	SCBR		Kraft, Secondary	Lime Kiln
LK#1 inhouse PM Source Tests 2011.pdf	133	NEI13363	14	133.14	133--LK#1	SCBR		Kraft	Lime Kiln
LK#1 inhouse PM Source Tests 2011.pdf	133	NEI13363	14	133.14	133--LK#1	SCBR		Kraft	Lime Kiln
2004 RB & LK & SDT PM #69.pdf	135	NEI33118	004-1	135.004-1	135--007-5	SCBR		Kraft	Lime Kiln
2004 RB & LK & SDT PM #69.pdf	135	NEI33118	004-1	135.004-1	135--007-5	SCBR		Kraft	Lime Kiln
PM_SO2_NOX_CO Lime Kiln SN-01 May 2007.pdf	138	NEI18652	001	138.001	138--SCRB LK1	SCBR		Kraft	Lime Kiln
LK OM5 052011.pdf	140	NEI13340	32	140.32	140--481-141	SCBR		Kraft	Lime Kiln
LK EPA M5 102009.pdf	140	NEI13340	32	140.32	140--481-141	SCBR		Kraft	Lime Kiln
RTI1#B09.PDF	142	NEI41552	P6009	142.P6009	142--CD-6009	SCBR		Kraft, Secondary	Lime Kiln
RTI1#802.PDF	142	NEI41552	P6025	142.P6025	142--CD-6025	SCBR		Kraft, Secondary	Lime Kiln
NEI40488 B011, P001, P005 - 2009 Title V Compliance Test Rep.pdf	149	NEI40488	P001	149.P001	149--MC-102, SC-102	SCBR		Kraft	Lime Kiln
NEI11338_WPC - RF_SDT_LK - Mar 2007.pdf	152	NEI11338	08	152.08	152--07-SCBR	SCBR		Kraft	Lime Kiln
NEI33883 - Lime Kiln - February 18, 2004 - Particulate Emission Sampling.pdf	155	NEI33883	LIME KILN	155.LIME KILN	155--LK SCRUBBER	SCBR		Kraft, Mechanical	Lime Kiln
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000019	165.000019	165--VS-2	SCBR		Kraft	Lime Kiln
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000002	165.000002	165--263009	SCBR		Kraft	Lime Kiln
RTI167 NEI34070 2011_IPVicksburg_StackTestReport_(PB,LK,RB,SDT, SS).pdf	167	NEI34070	004LK	167.004LK	167--LKSCBR	SCBR		Kraft, Secondary	Lime Kiln

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI173 NEI 35908 IPTiconderoga Subpart MM Stack Test for RB-SDT-LK 10-04.pdf	173	NEI35908	LK1	173.LK1	173--LKSCBR	SCBR	NA	Kraft	Lime Kiln
P_P ICR Part III_RTI174_International Paper-Riegelwood Mill_.pdf	174	NEI40247	G-95	174.G-95	174--G-95 SCRUB/G-95 CYC	SCBR		Kraft	Lime Kiln
KapStone RR, NC Kiln October 2010 Report Proper.PDF	176	NEI47104	G-5	176.G-5	176--09-CD-004-001	SCBR		Kraft	Lime Kiln
RecBoiler_WasteBoiler_SmeltTank_LimeKiln_Compliancetest2011_Part1.pdf	177	NEI33887	EU0905	177.EU0905	177--EU0905SCR	SCBR		Kraft	Lime Kiln
NEI6057 2009 #2 LK EMISSION TEST REPORT.pdf	181	NEI6057	14	181.14	181--LK2_SCBR	SCBR	low NOx burners	Kraft, Secondary, SemiChem	Lime Kiln
NEI6057 2009 #2 LK EMISSION TEST REPORT.pdf	181	NEI6057	14	181.14	181--LK2_SCBR	SCBR	low NOx burners	Kraft, Secondary, SemiChem	Lime Kiln
NEI6057 2009 #1LK EMISSION TEST REPORT.pdf	181	NEI6057	1	181.1	181--LK1_SCBR	SCBR	low NOx burners	Kraft, Secondary, SemiChem	Lime Kiln
Georgia-Pacific Cedar Springs NEI26491 P3 LK2 PM 09-24-2010 Compliance Test.pdf	190	NEI26491	L601	190.L601	190--C601	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
Georgia-Pacific Cedar Springs NEI26491 P3 LK1 PM 2-23-2011 Compliance Test.pdf	190	NEI26491	L600	190.L600	190--C600	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
195_TR_ME DEP Summary Worksheet - Lime Kiln.PDF	195	NEI46835	002	195.002	195--LKSCR	SCBR		Kraft	Lime Kiln
2004 Method 5 Testing - part 1 of 3.pdf	196	NEI18660	SN-09	196.SN-09	196--SN-09	SCBR	Scrubber	Kraft	Lime Kiln
NEI8601_Unit 008_2011.pdf	205	NEI8601	008	205.008	205--LKS	SCBR		Kraft, Secondary	Lime Kiln
RecoveryBoilerSmeltTank#2LimeKiln_EmmisionsTestReport_2005.pdf	340	NEI46852	008	340.008	340--LKVS	SCBR		Kraft, Secondary	Lime Kiln
#4LK Compliance 042711.pdf	525	NEI8265	EU17	525.EU17	525--LKSCB	SCBR		Kraft	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	7	610.7	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	7	610.7	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	7	610.7	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2010 LKA Report.pdf	610	NEI6261	7	610.7	610--ALK-WS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2010 LKA Report.pdf	610	NEI6261	7	610.7	610--ALK-WS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	8	610.8	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	8	610.8	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
610 Verso 2009 LK A&B Report with Apn.pdf	610	NEI6261	8	610.8	610--LKB-VS	SCBR		Kraft, Mechanical	Lime Kiln
2009 LK.pdf	613	NEI11172	009	613.009	613--LKSCR	SCBR		Kraft, Secondary	Lime Kiln
2009 LK.pdf	613	NEI11172	009	613.009	613--LKSCR	SCBR		Kraft, Secondary	Lime Kiln
2011 Stack Report-AIR.pdf	130	NEI18338	4	130.4	130--4LKSCR	SCBR		Kraft	Lime Kiln
2011 Stack Report-AIR.pdf	130	NEI18338	5	130.5	130--5LKSCR	SCBR		Kraft	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	16	131.16	131--CZ12-2	SCBR		Kraft, Secondary	Lime Kiln
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	16	131.16	131--CZ12-2	SCBR		Kraft, Secondary	Lime Kiln
NEI33104-KILN 2007 PM Compliance.pdf	157	NEI33104	KILN	157.KILN	157--VENSCR	SCBR		Kraft	Lime Kiln
2011.0606-0609.2Q.tests.pdf	188	NEI40600	001LK1, 002LK2, 003LK3	188.001LK1, 002LK2, 003LK3	188--LK1SCB, 188--LK2SCB, 188--LK3SCB	SCBR		Kraft, Secondary, SemiChem	Lime Kiln
RTI206_BRPLK#411.13.2007.pdf	206	NEI40282	G-37	206.G-37	206--LK4 DEM/LK4 SCRUB	SCBR		Kraft	Lime Kiln
9-0224C Evergreen F.pdf	171	NEI18658	009	171.009	171--VSLK1	SCBR		Kraft	Lime Kiln
9-0224C Evergreen F.pdf	171	NEI18658	010	171.010	171--VSLK2	SCBR		Kraft	Lime Kiln
IPPB OCT 05 MACT II REPORT - 1.pdf (3 parts)	171	NEI18658	009	171.009	171--VSLK1	SCBR		Kraft	Lime Kiln

Green rows were not used in the NSPS review.

ıte Matter

	Configuration				General Test Report Information				Production Rate			Inlet/Outlet
RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
100.115	No		PM	2004	Lime Kiln	Natural Gas	6/17/2004	M5	7.52	ton CaO/hr		Outlet
102.LK	No		PM	2011	#1 Lime Kiln- South Stack	Natural Gas	1/4/2011	M5	13.8	ton CaO/hr		Outlet
102.LK	No		PM	2011	#1 Lime Kiln- North Stack	Natural Gas	1/4/2011	M5	13.8	ton CaO/hr		Outlet
103.G-165	no		PM	2008	No. 5 Lime Kiln	No. 6 fuel oil	8/28/2008	M5	17.08	ton CaO/hr		Outlet
105.EU455	no		PM	2010	Lime Kiln No.3	unspecified	10/12/2010	M5	8.695	ton CaO/hr		Outlet
107.11-P14			PM	2010	Lime Kiln	Natural Gas, Pet Coke	7/21/2010	M5	15.7	ton CaO/hr		Outlet
108.LK1	No		PM	2004	Lime Kiln - Performance Engineering Test cond. I	unspecified	3/9/2004	M5	10.23	ton CaO/hr		Outlet
108.LK1	No		PM	2004	Lime Kiln - Performance Engineering Test cond. II	unspecified	3/10/2004	M5	10.22	ton CaO/hr		Outlet
108.LK1	No		PM	2004	Lime Kiln - MACT II Compliance Test	unspecified	6/19/2004	M5	10.1	ton CaO/hr		Outlet
111.G-35	No		PM	2009	Lime Kiln - Cond. I	No. 6 fuel oil	8/4/2009	M5	12.63	ton CaO/hr		Outlet
111.G-35	No		PM	2009	Lime Kiln - Cond II	Natural Gas	8/6/2009	M5	12.47	ton CaO/hr		Outlet
114.U800	No		PM	2008	Lime Kiln	Natural Gas	12/16/2008	M5	16.66666667	ton CaO/hr	Converted from ton CaO/day (p. 111 of report)	Outlet
114.U800	No		PM	2008	Lime Kiln	Oil	12/16/2008	M5	16.49166667	ton CaO/hr	Converted from ton CaO/day (p. 111 of report)	Outlet
120.M19	No		PM	2009	Lime Kiln 2A	Natural gas	7/20/2009	M5	7.542	ton CaO/hr		Outlet
120.M18	No		PM	2009	Lime Kiln 1A	Natural gas	7/21/2009	M5	8.17	ton CaO/hr		Outlet
124.004-1	No		PM	2010	Lime Kiln	Natural gas and pet coke	11/2/2010	M5	38.6	ton CaO/hr		Outlet
126.LK	No		PM	2009	Lime Kiln	unspecified	12/11/2009	M5	15.373	ton CaO/hr		Outlet
127.LK2	No		PM	2011	Lime Kiln No. 2	Oil	4/5/2011	M5	7.167	ton CaO/hr		Outlet
127.LK1	No		PM	2011	Lime Kiln No. 1	Oil	4/4/2011	M5	6.99	ton CaO/hr		Outlet
131.18	No		PM	2004	Lime Kiln 1	Residual Fuel Oil	1/19/2004	M5	9.2	ton CaO/hr		Outlet
131.18	No		PM	2004	Lime Kiln 1	Residual Fuel Oil	1/20/2004	M5	7.94	ton CaO/hr		Outlet
131.18	No		PM	2004	Lime Kiln 1	Residual Fuel Oil	3/9/2004	M5	10.6	ton CaO/hr		Outlet
131.18	No		PM	2004	Lime Kiln 1	Residual Fuel Oil	3/10/2004	M5	6.8	ton CaO/hr		Outlet
132.21LK4			PM	2010	Lime Kiln 4	Fuel oil	7/27/2010	M5	24	ton CaO/hr		Outlet
136.EU 033	no		PM	2010	Rotary Lime Kiln	Natural gas	2/10/2010	M5	16.95	ton CaO/hr		Outlet
137.512	No		PM	2008	Lime Kiln 4	Natural gas	5/13/2008	M5	8.7	ton CaO/hr		Outlet
139.04	No		PM	2004	Lime Kiln	unspecified	9/9/2004	M5	6600	g/h mud flow rate	Only units given	Outlet
143.6063	no		PM	2004	No. 4 Lime Kiln	unspecified	6/4/2004	M5	19.79	ton CaO/hr		Outlet
145.001	No		PM	2002	Lime Kiln - filterable	unspecified	10/23/2002	M5	unspecified			Outlet
146.30	No		PM	2008	No. 2 Lime Kiln	unspecified	10/15/2008	M5	26.60	ton CaO/hr		Outlet
146.6	No		PM	2009	No. 1 Lime Kiln	unspecified	4/20/2009	M5	375.04	mud feed rate	only units given	Outlet
147.3	NO	NA	PM	2010	No. 1 Lime Kiln	unspecified	6/15/2010	M5	unspecified			Outlet
147.55	NO	NA	PM	2010	No. 7 Lime Kiln	unspecified	9/23/2010	M5	18.42	ton CaO/hr		Outlet
147.55	NO	NA	PM	2010	No. 7 Lime Kiln	unspecified	10/22/2010	M5	18.33	ton CaO/hr		Outlet
148.003	no		PM	2010	No.1 Lime Kiln	unspecified	5/25/2010	M5	13.723	ton CaO/hr		Outlet
148.009	no		PM	2010	No. 2 Lime Kiln	unspecified	5/26/2010	M5	unspecified			Outlet
150.CAU-12	No		PM	2009	Lime Kiln	Natural Gas	10/13/2009	M5	unspecified			Outlet
154.P30 - Lime Kiln	No		PM	2010	Lime Kiln	Fuel Oil	12/8/2010	M5	12.94	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - North Stack	Natural Gas	3/30/2010	M5	11.8	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - South Stack	Natural Gas	3/30/2010	M5	11.8	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - North Stack	Natural Gas	6/8/2010	M5	11.04	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - South Stack	Natural Gas	6/8/2010	M5	11.04	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - North Stack	Natural Gas	8/12/2010	M5	9.2	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - South Stack	Natural Gas	8/12/2010	M5	9.2	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - North Stack	Natural Gas	10/5/2010	M5	7.9	ton CaO/hr		Outlet
156.LK5	No		PM	2010	Lime Kiln 5 - South Stack	Natural Gas	10/5/2010	M5	7.9	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
156.145000	No		PM	2010	Lime Kiln 4	Natural Gas	2/18/2010	M5	7.5	ton CaO/hr		Outlet
156.145000	No		PM	2010	Lime Kiln 4	Natural Gas	4/22/2010	M5	7.5	ton CaO/hr		Outlet
156.145000	No		PM	2010	Lime Kiln 4	Natural Gas	9/3/2010	M5	7.92	ton CaO/hr		Outlet
156.145000	No		PM	2010	Lime Kiln 4	Natural Gas	12/15/2010	M5	8.33	ton CaO/hr		Outlet
156.143100	No		PM	2010	Lime Kiln 3	Natural Gas	1/28/2010	M5	5.21	ton CaO/hr		Outlet
156.143100	No		PM	2010	Lime Kiln 3	Natural Gas	2/9/2010	M5	7.3	ton CaO/hr		Outlet
156.143100	No		PM	2010	Lime Kiln 3	Natural Gas	11/24/2010	M5	5.92	ton CaO/hr		Outlet
159.F4	No		PM	2010	Lime Kiln	unspecified	12/3/2010	M5	14.56	ton mud/hour	only units given	Outlet
162.372A	No		PM	2008	No. 2 Lime Kiln	No.6 fuel oil	8/5/2008	M5	14.54	ton CaO/hr		Outlet
162.371A	No		PM	2009	No. 1 Lime Kiln	No. 6 fuel oil	5/20/2009	M5	9.63	ton CaO/hr		Outlet
163.LK1501	No		PM	2011	No. 1 Lime Kiln	Natural Gas	6/9/2011	M5	14.163	ton CaO/hr		Outlet
163.LK2502	No		PM	2011	No. 2 Lime Kiln	Natural Gas/ Coke	6/8/2011	M5	14.55	ton CaO/hr		Outlet
164.P12			PM	2010	Lime Kiln - Front Half only	No.6 fuel oil	8/17/2010	M5	4.83	ton CaO/hr		Outlet
166.LK01	No		PM	2009	No. 1 Lime Kiln	Fuel Oil	7/24/2009	M5	10.96	ton CaO/hr		Outlet
166.LK02	No		PM	2009	No. 2 Lime Kiln	Fuel Oil	7/23/2009	M5	12.33	ton CaO/hr		Outlet
172.LK03	no		PM	2009	No. 3 Lime Kiln	Fuel Oil	10/21/2009	M5	11.78	ton CaO/hr		Outlet
172.LK03	no		PM	2009	No. 3 Lime Kiln	Natural Gas	10/20/2009	M5	11.53	ton CaO/hr		Outlet
174.G-18			PM	2004	No. 4 Lime Kiln	Fuel Oil	10/27/2004	M5	31.1	ton CaO/hr		Outlet
175.LK2A	no		PM	2010	No. 2 Lime Kiln - Shutdown	Natural Gas	1/12/2010	M5	16.4	ton CaO/hr		Outlet
175.LK2A	no		PM	2010	No. 2 Lime Kiln - Startup	Natural Gas	1/14/2010	M5	14.3	ton CaO/hr		Outlet
175.LK1A	no		PM	2010	No. 1 Lime Kiln - Shutdown	Natural Gas	2/4/2010	M5	2.917	ton CaO/hr		Outlet
175.LK1A	no		PM	2010	No. 1 Lime Kiln - Startup	Natural Gas	2/4/2010	M5	4.104	ton CaO/hr		Outlet
175.LK1A	no		PM	2010	No. 1 Lime Kiln	Natural Gas	8/9/2010	M5	9.205	ton CaO/hr		Outlet
178.09P037	No		PM	2010	Lime Kiln (Scrubber Outlet) - Firing Gas	Natural Gas	5/27/2010	M5	14.1	ton CaO/hr		Outlet
178.09P037	No		PM	2010	Lime Kiln (Scrubber Outlet) - Firing Oil	Oil	5/26/2010	M5	14.1	ton CaO/hr		Outlet
179.LK3	No		PM	2010	No. 3 Lime Kiln	Natural Gas	10/12/2010	M5	21.21	ton CaO/hr		Outlet
180.L001	No		PM	2010	No. 1 Lime Kiln	Oil	3/24/2010	M5	5.00	ton CaO/hr		Outlet
180.L002	No		PM	2010	No. 2 Lime Kiln	Oil	3/25/2010	M5	5	ton CaO/hr		Outlet
184.LK2	No		PM	2004	No. 2 Lime Kiln - Condition I	Natural Gas	10/22/2004	M5	10.84	ton CaO/hr		Outlet
184.LK2	No		PM	2004	No. 2 Lime Kiln - Condition II	Pet coke and natural gas	10/26/2004	M5	10.94	ton CaO/hr		Outlet
184.LK1	No		PM	2010	No. 1 Lime Kiln - High CaO Production	Natural Gas and Pet Coke	3/4/2010	M5	12.71	ton CaO/hr		Outlet
184.LK1	No		PM	2010	No. 1 Lime Kiln - Low CaO Production	Natural Gas and Pet Coke	3/4/2010	M5	8.08	ton CaO/hr		Outlet
185.07	No		PM	2009	No. 4 Lime Kiln	Natural Gas	1/23/2009	M5	186	gpm (firing rate)	only units given	Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
185.07	No		PM	2009	No. 4 Lime Kiln	Natural Gas	4/15/2009	M5	175	gpm (firing rate)	only units given	Outlet
185.07	No		PM	2009	No. 4 Lime Kiln	Natural Gas	7/23/2009	M5	185	gpm (firing rate)	only units given	Outlet
185.07	No		PM	2009	No. 4 Lime Kiln	Natural Gas	10/7/2009	M5	180	gpm (firing rate)	only units given	Outlet
186.LK	No		PM	2009	No. 3 Lime Kiln	Natural Gas and No. 6 Fuel Oil	7/14/2009	M5	21.00	ton/hour	only units given/converted to hours and assumed CaO	Outlet
189.SN25	no		PM	2011	No. 4 Lime Kiln	Oil and Natural Gas	3/22/2011	M5	480.05	gpm mud flow	Only units given	Outlet
189.SN25	no		PM	2011	No. 4 Lime Kiln	Oil and Natural Gas	4/1/2011	M5	412.1	gpm mud flow	Only units given	Outlet
196.SN-02	no		PM	2010	No. 3 Lime Kiln	unspecified	4/23/2010	M5	15.5	ton CaO/hr		Outlet
197.1	No		PM	2008	Lime Kiln	Natural Gas	9/16/2008	M5	67.11	ton CaO/hr		Outlet
198.004	Yes	burner, duct, and conveyor modifications	PM	2005	Lime Kiln	unspecified	9/9/2005	M5	13.83	ton CaO/hr		Outlet
199.011	No		PM	2011	No. 3 Lime Kiln	unspecified	7/7/2011	M5	13.31	ton CaO/hr		Outlet
200.007_10	No		PM	2010	No. 2 Lime Kiln	Natural Gas	3/30/2010	M5	16.3	ton mud/hour	only units given/converted to hours	Outlet
201.SR0003	No		PM	2007	Lime Kiln	Natural Gas and Pet. Coke fuel	5/8/2007	M5	14.18	ton CaO/hr		Outlet
202.Lime Kiln EU340	no	Particulate matter test includes condensable as well as method 5 filterable PM	PM	2011	Lime Kiln	Natural Gas	7/21/2011	M5	7.54	ton CaO/hr		Outlet
203.LKScr	No		PM	2011	Lime Kiln	Natural Gas	2/8/2011	M5	220	gpm mud flow	only units given	Outlet
203.LKScr	No		PM	2011	Lime Kiln	Natural Gas	3/22/2011	M5	240	gpm mud flow	only units given	Outlet
203.LKScr	No		PM	2011	Lime Kiln	Natural Gas	4/5/2011	M5	240	gpm mud flow	only units given	Outlet
203.LKScr	No		PM	2011	Lime Kiln	Natural Gas	4/22/2011	M5	240	gpm mud flow	only units given	Outlet
206.G-38	no		PM	2007	Lime Kiln #5	unspecified	11/13/2007	M5	unspecified			Outlet
207.103A	no	NA	PM	2011	Lime Kiln - Normal Condition	Natural Gas	6/7/2011	M5	2.88	ton CaO/hr		Outlet
207.103A	no	NA	PM	2011	Lime Kiln -Condition I	Natural Gas	6/7/2011	M5	2.88	ton CaO/hr		Outlet
207.103A	no	NA	PM	2011	Lime Kiln - Condition II	Natural Gas	6/8/2011	M5	2.88	ton CaO/hr		Outlet
207.103A	no	NA	PM	2011	Lime Kiln - Condition III	Natural Gas	6/8/2011	M5	2.88	ton CaO/hr		Outlet
226.LK1	no		PM	2004	Lime Kiln #1	unspecified	8/10/2004	M5	323	gpm mud flow	only units given	Outlet
226.LK2	no		PM	2004	Lime Kiln #2	unspecified	1/16/2004	M5	300	gpm mud flow	only units given	Outlet
240.CA81	No		PM	2010	D Lime Kiln	unspecified	3/16/2010	M5	27.56	ton CaO/hr		Outlet
242.AA-013	No		PM	2010	Lime Kiln	unspecified	9/1/2010	M5	18	ton CaO/hr		Outlet
243.LG07	No		PM	2009	No. 5 Lime Kiln - Condition I	Natural Gas	10/29/2009	M5	58	ton mud/hour	only units given	Outlet
243.LG07	No		PM	2009	No. 5 Lime Kiln - Condition II	Natural Gas	10/29/2009	M5	33.5	ton mud/hour	only units given	Outlet
531.LK7	No		PM	2011	No. 7 Lime Kiln	Natural Gas	5/4/2011	M5	26.04	ton CaO/hr		Outlet
600.G0908	no		PM	2010	No. 3 Lime Kiln	Natural Gas	11/14/2010	M5	12.07	ton CaO/hr		Outlet
600.G0905	no		PM	2011	No. 2 Lime Kiln	Natural Gas	6/16/2011	M5	12.09	ton CaO/hr		Outlet
600.G0903	no		PM	2010	No. 1 Lime Kiln	Natural Gas	11/3/2010	M5	7.9625	ton CaO/hr		Outlet
600.G0905	no		PM	2010	No. 2 Lime Kiln	Natural Gas	6/9/2010	M5	12.08	ton CaO/hr		Outlet
606.LK4	no		PM	2011	Lime Kiln 4	unspecified	4/6/2011	M5	27.1	ton CaO/hr		Outlet
615.21	no		PM	2009	Lime Kiln - Front Half	Natural Gas	10/22/2009	M5	9.983	ton CaO/hr		Outlet
615.21	no		PM	2009	Lime Kiln - ODEQ 5	Natural Gas	10/22/2009	M5	9.983	ton CaO/hr		Outlet
169.03	No		PM	2010	Lime Kiln	unspecified	9/24/2010	M5	425.2333333	gpm mud flow	ton CaO/hr not provided. 74.5 TBLS/hr provided.	Outlet
617.P22	no		PM	2011	S22 Lime Kiln	unspecified	3/17/2011	M5	6.333333333	ton CaO/hr		Outlet
126.LK	No		PM	2004	Lime Kiln	Unspecified	2/5/2004	M5	8.441	ton CaO/hr		Outlet
132.21LK4	No		PM	2007	No. 4 Lime Kiln	Fuel Oil	5/22/2007	M5	25.24	ton CaO/hr		Outlet
132.21LK4	No		PM	2008	No. 4 Lime Kiln	Fuel Oil	6/19/2008	M5	22.22	ton CaO/hr		Outlet
132.21LK4	No		PM	2006	No. 4 Lime Kiln	Fuel Oil	6/15/2006	M5	23.27666667	ton CaO/hr		Outlet
132.21LK4	No		PM	2005	No. 4 Lime Kiln	Unspecified	6/2/2005	M5	23.7	ton CaO/hr		Outlet
132.21LK4	No		PM	2004	No. 4 Lime Kiln	Unspecified	05/24/2004	M5	Unspecified		Unspecified	Outlet
132.21LK4	No		PM	2003	No. 4 Lime Kiln	Unspecified	05/19/2003	M5	Unspecified		Unspecified	Outlet
132.21LK4	No		PM	2002	No. 4 Lime Kiln	Unspecified	05/21/2002	M5	Unspecified		Unspecified	Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
132.21LK4	No		PM	2001	No. 4 Lime Kiln	Unspecified	05/22/2001	M5	22.467	ton CaO/hr	Assumed Suspect Production Rate was hourly rate. Suspect production rate listed as "averaged 22.467 TPD" may be hourly rate as on order of magnitude of other tests for hourly rate. Could not check by Part III data base because claimed CBI. Permit has 630 tons CaO/day -> 26 tons CaO/hr.	Outlet
132.21LK4	No		PM	2009	No. 4 Lime Kiln	Fuel Oil	06/17/2009	M5	24.5	ton CaO/hr		Outlet
136.EU 033	No		PM	2001	Lime Kiln	Natural Gas	01/23/2001	M5	15.24166667	ton CaO/hr		Outlet
136.EU 033	No		PM	2008	Lime Kiln	Unspecified	07/07/2008	M5	18.13333333	ton CaO/hr		Outlet
136.EU 033	No		PM	2006	Lime Kiln	Natural Gas	07/12/2006	M5	18.13333333	ton CaO/hr		Outlet
136.EU 033	No		PM	2004	Lime Kiln	Natural Gas	10/28/2004	M5	17.40694444	ton CaO/hr		Outlet
136.EU 033	No		PM	2002	Lime Kiln	Unspecified	11/14/2002	M5	17.21388889	ton CaO/hr		Outlet
137.511	No		PM	2005	No. 3 Lime Kiln	Natural Gas	6/15/2005	M5	8.541666667	ton CaO/hr		Outlet
137.511	No		PM	2004	No. 3 Lime Kiln	Natural Gas	8/12/2004	M5	7.9	ton CaO/hr		Outlet
137.512	Yes	No PBSCBR	PM	2005	No. 4 Lime Kiln	Natural Gas	04/12/2005	M5	8.7	ton CaO/hr		Outlet
137.512	Yes	No PBSCBR	PM	2005	No. 4 Lime Kiln	Natural Gas	07/15/2005	M5	8.7	ton CaO/hr		Outlet
137.512	Yes	No PBSCBR	PM	2004	No. 4 Lime Kiln	Natural Gas	08/12/2004	M5	7.9	ton CaO/hr		Outlet
137.511	No		PM	2008	No. 3 Lime Kiln	Natural Gas	05/14/2008	M5	9	ton CaO/hr		Outlet
137.512	No		PM	2002	No. 4 Lime Kiln	Natural Gas	07/18/2002	M5	9.34	ton CaO/hr		Outlet
137.512	Yes	No indication scrubber in use.	PM	2002	No. 4 Lime Kiln	Unspecified	07/18/2002	M5	9.3	ton CaO/hr	"Hourly production rate" assumed to be ton CaO/hr because it is very close to the production rate in a separate test for this kiln.	Inlet/Outlet
146.30	No		PM	2004	No. 2 Lime Kiln	unspecified	02/18/2004	M5	unspecified			Outlet
154.P30 - Lime Kiln	Yes	Scrubber shut down.	PM	2003	Lime Kiln	Natural Gas	10/30/2003	M5	365	gpm mud flow	CaO production unspecified	Outlet
154.P30 - Lime Kiln	No		PM	2007	Lime Kiln	Natural Gas	08/01/2007	M5	12.97222222	ton CaO/hr	310 TPD Lime Mud = 369.7 gpm Lime Mud	Outlet
154.P30 - Lime Kiln	No		PM	2008	Lime Kiln	No. 2 Fuel Oil	12/04/2008	M5	11.69444444	ton CaO/hr	294 TPD Lime Mud = 320.2 gpm Lime Mud	Outlet
154.P30 - Lime Kiln	No		PM	2009	Lime Kiln	Natural Gas	08/25/2009	M5	12.84722222	ton CaO/hr	338 TPD Lime Mud = 391 gpm Lime Mud	Outlet
186.LK	No		PM	2007	No. 3 Lime Kiln	Natural Gas and/or No. 6 Fuel Oil	09/05/2007	M5	21.78391319	ton CaO/hr	Assume this is ton CaO/hr (seems reasonable). Listed as Caus.Kiln TPD (converted)	Outlet
186.LK	No		PM	2006	No. 3 Lime Kiln	Natural Gas and/or No. 6 Fuel Oil	07/26/2006	M5	17.41666667	ton CaO/hr	Calculated from ton CaO/day on process screen prints	Outlet
186.LK	No		PM	2008	Lime Kiln	Unspecified	10/15/2008	M5	19.79583333	ton CaO/hr		Outlet
186.LK	No		PM	2005	No. 3 Lime Kiln	Natural Gas and/or No. 6 Fuel Oil	11/22/2005	M5	420	gpm mud flow		Outlet
243.LG07	No		PM	2005	No. 5 Lime Kiln	Fuel Oil	11/01/2005	M5	59.7	ton mud/hour		Outlet
243.LG07	No		PM	2007	No. 5 Lime Kiln	Natural Gas	10/30/2007	M5	55.5	ton mud/hour		Outlet
105.EU455	No		PM	2007	No. 3 Lime Kiln	Natural Gas	05/15/2007	EPA\ODEQ M5	20.32083333	ton CaO/hr		Outlet
121.000011	No		PM	2002	Lime Kiln	Unspecified	10/31/2002	M5	10.25	ton CaO/hr	Converted from ton CaO/day (p. 275 of report)	Outlet
121.000011	No		PM	2004	Lime Kiln	Unspecified	8/24/2004	M5	330	gpm	Not in ton CaO	Outlet
102.LK	No		PM	2008	Lime Kiln (No. 1 South Stack)	Natural Gas	1/29/2008	M5	11.9	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 2 North Stack)	Natural Gas	01/29/2008	M5	11.9	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
102.LK	No		PM	2008	Lime Kiln (No. 1 South Stack)	Natural Gas	04/11/2008	M5	13.1	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 2 North Stack)	Natural Gas	04/11/2008	M5	13.1	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 1 South Stack)	Natural Gas	07/07/2008	M5	14.51	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 2 North Stack)	Natural Gas	07/08/2008	M5	14.51	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 1 South Stack)	Natural Gas	10/10/2008	M5	13.09	ton CaO/hr		Outlet
102.LK	No		PM	2008	Lime Kiln (No. 2 North Stack)	Natural Gas	10/10/2008	M5	13.09	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 1 South Stack)	Natural Gas	01/12/2010	M5	10.59	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 2 North Stack)	Natural Gas	01/12/2010	M5	10.59	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 1 South Stack)	Natural Gas	05/04/2010	M5	14.1	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 2 North Stack)	Natural Gas	05/04/2010	M5	14.1	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 1 South Stack)	Natural Gas	08/25/2010	M5	14.9	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
102.LK	No		PM	2010	Lime Kiln (No. 2 North Stack)	Natural Gas	08/25/2010	M5	14.9	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 1 South Stack)	Natural Gas	10/14/2010	M5	14.33	ton CaO/hr		Outlet
102.LK	No		PM	2010	Lime Kiln (No. 1 South Stack)	Natural Gas	10/14/2010	M5	14.33	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 1 South Stack)	Natural Gas	01/23/2009	M5	13.14	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 2 North Stack)	Natural Gas	01/23/2009	M5	13.14	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 1 South Stack)	Natural Gas	04/10/2009	M5	14.1	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 2 North Stack)	Natural Gas	04/10/2009	M5	14.1	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 1 South Stack)	Natural Gas	07/06/2009	M5	13.85	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 2 North Stack)	Natural Gas	07/06/2009	M5	13.85	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 1 South Stack)	Natural Gas	10/16/2009	M5	14.08	ton CaO/hr		Outlet
102.LK	No		PM	2009	Lime Kiln (No. 2 North Stack)	Natural Gas	10/16/2009	M5	14.08	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
105.EU455	no		PM	2008	No. 3 Lime Kiln	Natural Gas, Pet Coke	05/22/2008	EPA\ODEQ M5	11.65	ton CaO/hr (calculated)	1016.9 ADMT/day pulp production provided in appendix; 480.4 ton/day CaCO3 (kiln input); and 185 gpm CaCO3. Used convention of 550 lb CaO/ADTP for kraft mills.	Outlet
105.EU455	no		PM	2008	No. 3 Lime Kiln	Natural Gas	10/21/2008	EPA\ODEQ M5	11.48	ton CaO/hr (calculated)	Used convention of 550 lb CaO/ADTP for kraft mills.	Outlet
105.EU455	no		PM	2009	No. 3 Lime Kiln	Natural Gas, Pet Coke	06/02/2009	EPA\ODEQ M5	10.87	ton CaO/hr (calculated)	Used convention of 550 lb CaO/ADTP for kraft mills.	Outlet
105.EU455	no		PM	2009	No. 3 Lime Kiln	Natural Gas, Methanol	09/22/2009	EPA\ODEQ M5	11.43	ton CaO/hr (calculated)	Used convention of 550 lb CaO/ADTP for kraft mills.	Outlet
107.11-P14			PM	2007	Lime Kiln	Natural Gas, Pet Coke	10/11/2007	M5	15.8	ton CaO/hr	Based on daily average	Outlet
107.11-P14			PM	2008	Lime Kiln	Natural Gas	06/17/2008	M5	15.13	ton CaO/hr	Based on daily average	Outlet
109.LK1	No		PM	2004	No. 3 Lime Kiln	Natural Gas, Coke	06/03/2004	M5	13.54	ton CaO/hr		Outlet
109.LK1	No		PM	2008	No. 3 Lime Kiln	Natural Gas	09/03/2008	M5	13.13	ton CaO/hr	Based on daily average	Outlet
114.U800	No		PM	2005	Lime Kiln	No. 6 fuel oil	12/13/2005	M5	16.22	ton CaO/hr	Production reported as "Kiln production = 389.3 ODT/day." PIII has 408 ton CaO/day, so interpreted ODT/day to be ton CaO/day.	Outlet
114.U800	No		PM	2005	Lime Kiln	Natural Gas	12/14/2005	M5	16.22	ton CaO/hr	Production reported as "Kiln production = 389.3 ODT/day." PIII has 408 ton CaO/day, so interpreted ODT/day to be ton CaO/day.	Outlet
127.LK1	No		PM	2005	Lime Kiln No. 1	Oil	02/16/2005	M5	6.75	ton CaO/hr		Outlet
127.LK1	No		PM	2007	Lime Kiln No. 1	Oil	04/25/2007	M5	5.85	ton CaO/hr		Outlet
127.LK1	No		PM	2009	Lime Kiln No. 1	Oil	04/28/2009	M5	7.2	ton CaO/hr	assumed this was the daily rate consistent with other tested production rates for this kiln	Outlet
127.LK2	No		PM	2005	Lime Kiln No. 2	Oil	02/16/2005	M5	6.78	ton CaO/hr		Outlet
127.LK2	No		PM	2007	Lime Kiln No. 2	Oil	04/24/2007	M5	5.98	ton CaO/hr		Outlet
127.LK2	No		PM	2009	Lime Kiln No. 2	Oil	04/29/2009	M5	6.7	ton CaO/hr	assumed this was the daily rate consistent with other tested production rates for this kiln	Outlet
148.009	no		PM	2007	No. 2 Lime Kiln	unspecified	10/29/2007	M5	unspecified		No production data given	Outlet
148.009	no		PM	2008	No. 2 Lime Kiln	unspecified	05/14/2008	M5	unspecified		No production data given	Outlet
148.009	no		PM	2009	No. 2 Lime Kiln	unspecified	06/16/2009	M5	unspecified		No production data given	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - North	Natural Gas	03/27/2009	M5	7.29	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - South	Natural Gas	03/27/2009	M5	7.29	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - North	Natural Gas	06/03/2009	M5	5.17	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - South	Natural Gas	06/03/2009	M5	5.17	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - North	Natural Gas	08/27/2009	M5	10.83	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - South	Natural Gas	08/27/2009	M5	10.83	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - North	Natural Gas	10/22/2009	M5	10	ton CaO/hr	Based on daily average	Outlet
156.LK5	No		PM	2009	Lime Kiln No. 5 - South	Natural Gas	10/22/2009	M5	10	ton CaO/hr	Based on daily average	Outlet
162.372A	No		PM	2006	No. 2 Lime Kiln	No. 6 fuel oil	08/03/2006	M5	14.17	ton CaO/hr	Based on daily average	Outlet
178.09P037	No		PM	2004	Lime Kiln	fuel oil	09/08/2004	M5	18.6	ton CaO/hr		Outlet
178.09P037	No		PM	2004	Lime Kiln - low load	fuel oil	09/09/2004	M5	2.9	ton CaO/hr		Outlet
178.09P037	No		PM	2004	Lime Kiln - Retest	Natural Gas, fuel oil	11/18/2004	M5	18	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
179.LK3	No		PM	2001	No. 3 Lime Kiln	fuel oil	09/26/2001	M5	15.23	ton CaO/hr		Outlet
196.SN-02	no		PM	2004	No. 3 Lime Kiln	unspecified	09/01/2004	M5	12.53	ton CaO/hr		Outlet
200.007_10	No		PM	2004	No. 2 Lime Kiln	Natural Gas, fuel oil	08/06/2004	M5	16.27	ton CaO/hr	Reported as CaCO but reported as production not feed rate. Therefore assumed CaO. Close to production rate in PIII (465 ton CaO/day).	Outlet
200.007_10	No		PM	2006	No. 2 Lime Kiln	Natural Gas	08/22/2006	M5	17.01	ton CaO/hr	Reported as CaCO but reported as production not feed rate. Therefore assumed CaO. Close to production rate in PIII (465 ton CaO/day).	Outlet
200.007_10	No		PM	2008	No. 2 Lime Kiln	Natural Gas	08/28/2008	M5	15.40	ton CaO/hr	Reported as CaCO but reported as production not feed rate. Therefore assumed CaO. Close to production rate in PIII (465 ton CaO/day).	Outlet
240.CA81	No		PM	2003	"D" Lime Kiln	unspecified	09/23/2003	M5	unspecified			Outlet
606.LK4	no		PM	2008	No. 4 Lime Kiln	Natural Gas	05/30/2008	M5	27	ton CaO/hr		Outlet
606.LK4	no		PM	2009	No. 4 Lime Kiln	Fuel Oil	04/21/2009	M5	27.27	ton CaO/hr		Outlet
606.LK4	no		PM	2010	No. 4 Lime Kiln	No. 6 fuel oil	04/23/2010	M5	27.08	ton CaO/hr		Outlet
606.LK4	no		PM	2010	No. 4 Lime Kiln	No. 6 fuel oil	04/24/2010	M5	27.08	ton CaO/hr		Outlet
606.LK4	no		PM	2010	No. 4 Lime Kiln	No. 6 fuel oil	04/25/2010	M5	unspecified			Outlet
617.P22	no		PM	2006	Lime Kiln	unspecified	08/08/2006	M5	6.04	ton CaO/hr	Based on daily average	Outlet
617.P22	no		PM	2007	Lime Kiln	Natural Gas	08/21/2007	M5	5.65	ton CaO/hr	Stated as Lime mud. Only production value given. PIII has 119 ton CaO/day = 5 ton CaO/hr so assume value provided is ton CaO/hr.	Outlet
617.P22	no		PM	2010	Lime Kiln	Natural Gas	03/17/2010	M5	6.26	ton CaO/hr	Production data was difficult to read	Outlet
208228535.009	No		PM	2009	No. 2 Lime Kiln	CTO	04/30/2009	M5	530	gpm CaCO	Only production data given.	Outlet
208228535.009	No		PM	2008	No. 2 Lime Kiln	unspecified	05/01/2008	M5	540	gpm CaCO	Only production data given.	Outlet
116.001	No		PM	2010	Lime Kiln	Natural Gas & Petcoke	8/30/2010	M5	10.4	ton CaO/hr		Outlet
117.P36	No		PM	2001	Lime Kiln	Natural Gas	3/13/2001	M5	3.1375	ton CaO/hr		Outlet
119.EQT006	No		PM	2008	Lime Kiln	unspecified	4/3/2008	M5	unspecified	unspecified		Outlet
133.14	No		PM	2011	Lime Kiln #1	unspecified	3/21/2011	M5 modified per AOP	unspecified	unspecified		Outlet
133.14	No		PM	2011	Lime Kiln #1	unspecified	6/9/2011	M5 modified per AOP	unspecified	unspecified		Outlet
135.004-1	No		PM	2004	Lime Kiln	No. 6 Oil	7/13/2004	M5	12.70833333	ton CaO/hr		Outlet
135.004-1	No		PM	2004	Lime Kiln	No. 6 Oil	7/14/2004	M5	13.45833333	ton CaO/hr		Outlet
138.001	No		PM	2007	Lime Kiln (SN-01)	PetCoke & Natural Gas	5/23/2007	M5	7.283333333	ton CaO/hr	Converted from ton CaO/day (p. 73 of report)	Outlet
140.32	No		PM	2011	Lime Kiln	unspecified	5/16/2011	ODEQ M5	7.3	ton CaO/hr		Outlet
140.32			PM	2009	Lime Kiln	natural gas	10/22/2009	M5	8.4	ton CaO/hr		Outlet
142.P6009	No		PM	2003	LIME KILN #2	unspecified	7/14/2003	M5	7.370833333	ton CaO/hr		Outlet
142.P6025	No		PM	2003	LIME KILN #1	unspecified	7/30/2003	M5	6.145833333	ton CaO/hr		Outlet
149.P001	no		PM	2009	Rotary Lime Kiln	unspecified	4/2/2009	M5	unspecified	unspecified		Outlet
152.08	No		PM	2007	lime kiln	unspecified	3/8/2007	M5 modified perTexas ACB Procedure - cyclonic flow	15.2	ton CaO/hr		Outlet
155.LIME KILN	No		PM	2004	Lime Kiln	unspecified	2/18/2004	M5	10.5	ton CaO/hr		Outlet
165.000019	No		PM	2004	No. 1 Lime Kiln (LK01)	unspecified	7/23/2004	M5	7.7	ton CaO/hr		Outlet
165.000002	No		PM	2004	No. 2 Lime Kiln (LK02)	unspecified	7/26/2004	M5	15.2	ton CaO/hr		Outlet
167.004LK	No	NA	PM	2011	Lime Kiln	Natural Gas	1/20/2011	M5	11.4	ton CaO/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
173.LK1	No	NA	PM	2004	lime kiln	#6 residual oil	9/29/2004	M5	8.5	ton CaO/hr		Outlet
174.G-95			PM	2003	No. 3 Lime Kiln	unspecified	6/3/2003	M5	14.328	ton CaO/hr		Outlet
176.G-5	No		PM	2010	Lime Kiln	No 4/ No. 6 & Natural Gas (w/ NCGs)	9/15/2010	M5	9.14	ton CaO/hr		Outlet
177.EU0905	No		PM	2011	Lime Kiln	unspecified	3/31/2011	M5	28.08333333	ton CaO/hr		Outlet
181.14	No		PM	2009	No. 2 Lime Kiln - W/O NCGs	unspecified	2/10/2009	M5	11.6	ton CaO/hr		Outlet
181.14	No		PM	2009	No. 2 Lime Kiln - W/ NCGs	unspecified	2/11/2009	M5	11.1	ton CaO/hr		Outlet
181.1	No		PM	2009	No. 1 Lime Kiln	unspecified	3/12/2009	M5	12.2	ton CaO/hr		Outlet
190.L601	No		PM	2010	Lime Kiln No. 2	unspecified	9/24/2010	M5	11.7	ton CaO/hr		Outlet
190.L600	No		PM	2011	Lime Kiln No. 1	unspecified	2/23/2011	M5	27.9	ton CaO/hr		Outlet
195.002	No		PM	2010	Lime Kiln	unspecified	11/15/2010	M5	19.03333333	ton CaO/hr		Outlet
196.SN-09	no		PM	2004	#2 Lime Kiln	unspecified	9/12/2004	M5	12.5	ton CaO/hr		Outlet
205.008	No		PM	2011	Lime Kiln	unspecified	1/26/2011	M5	unspecified	unspecified		Outlet
340.008	No		PM	2005	Number 2 Lime Kiln, SN-08	unspecified	6/23/2005	M5	50.5	ton CaO/hr	Appendix had 10.8 (but units of measure were unclear), and summary had 50.5 tons CaO/hr	Outlet
525.EU17	No		PM	2011	No. 4 Lime Kiln	Fuel Oil	4/27/2011	M5	40.5	ton CaO/hr		Outlet
610.7	no		PM	2009	A Lime Kiln	No. 6 Oil run 1, No. 6 Oil run 2, Waste Oil run 3	6/18/2009	M5	14	ton CaO/hr		Outlet
610.7	no		PM	2009	A Lime Kiln	Waste Oil	6/18/2009	M5	16	ton CaO/hr		Outlet
610.7	no		PM	2009	A Lime Kiln	Waste Oil	6/22/2009	M5	17	ton CaO/hr		Outlet
610.7	no		PM	2010	A Lime Kiln	Waste Oil	6/15/2010	M5	16	ton CaO/hr		Outlet
610.7	no		PM	2010	A Lime Kiln	Waste Oil	6/16/2010	M5	14	ton CaO/hr		Outlet
610.8	no		PM	2009	B Lime Kiln	Waste Oil	6/17/2009	M5	14	ton CaO/hr		Outlet
610.8	no		PM	2009	B Lime Kiln	Waste Oil run 1, No. 6 Fuel Oil Runs 2 & 3	6/17/2009	M5	16	ton CaO/hr		Outlet
610.8	no		PM	2009	B Lime Kiln	Waste Oil	6/19/2009	M5	17	ton CaO/hr		Outlet
613.009	No		PM	2009	Lime Kiln	Natural Gas, Without Petcoke	12/3/2009	M5	unspecified	unspecified		Outlet
613.009	No		PM	2009	Lime Kiln	Natural Gas, With Petcoke	12/4/2009	M5	unspecified	unspecified		Outlet
130.4	No		PM	2011	No. 1 Lime Kiln	unspecified	06/24/2011	M5	6.03	ton CaO/hr	based on daily average	Outlet
130.5	No		PM	2011	No. 2 Lime Kiln	unspecified	06/24/2011	M5	5.75	ton CaO/hr	based on daily average	Outlet
131.16	No		PM	2003	No. 2 Lime Kiln	Fuel Oil	12/11/2003	M5	unspecified			Outlet
131.16	No		PM	2003	No. 2 Lime Kiln	Fuel Oil	12/12/2003	M5	unspecified			Outlet
157.KILN	No		PM	2007	Lime Kiln	No. 6 Fuel Oil	07/18/2007	M5	3.71	ton CaO/hr		Outlet
188.001LK1, 002LK2, 003LK3	No		PM	2011	Combined Lime Kilns	Natural Gas	06/07/2011	M5	12.10	ton CaO/hr		Outlet
206.G-37	no		PM	2007	No. 4 Lime Kiln	Natural Gas	11/13/2007	M5	unspecified		production data was reserved.	Outlet
171.009	no		PM	2009	No. 1 Lime Kiln	unspecified	7/7/2009	M5	7.68	ton CaO/hr	Assumed tons per day provided based on magnitude of production in PIII data, and from other tests	Outlet
171.010	no		PM	2009	No. 2 Lime Kiln	unspecified	7/6/2009	M5	7.270833333	ton CaO/hr	Assumed tons per day provided based on magnitude of production in PIII data, and from other tests	Outlet
171.009	no		PM	2005	No. 1 Lime Kiln	natural gas	7/20/2005	M5	7.81	ton CaO/hr		Outlet

ıte Matter

	Inlet - Testing Methodology Data		Inlet - Average Stack Gas Parameters							Inlet - Average Emissions Data						
RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
100.115																
102.LK																
102.LK																
103.G-165																
105.EU455																
107.11-P14																
108.LK1																
108.LK1																
108.LK1																
111.G-35																
111.G-35																
114.U800																
114.U800																
120.M19																
120.M18																
124.004-1																
126.LK																
127.LK2																
127.LK1																
131.18																
131.18																
131.18																
131.18																
132.21LK4																
136.EU 033																
137.512																
139.04																
143.6063																
145.001																
146.30																
146.6																
147.3																
147.55																
147.55																
148.003																
148.009																
150.CAU-12																
154.P30 - Lime Kiln																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
156.145000																
156.145000																
156.145000																
156.145000																
156.143100																
156.143100																
156.143100																
159.F4																
162.372A																
162.371A																
163.LK1501																
163.LK2502																
164.P12																
166.LK01																
166.LK02																
172.LK03																
172.LK03																
174.G-18																
175.LK2A																
175.LK2A																
175.LK1A																
175.LK1A																
175.LK1A																
178.09P037																
178.09P037																
179.LK3																
180.L001																
180.L002																
184.LK2																
184.LK2																
184.LK1																
184.LK1																
185.07																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
185.07																
185.07																
185.07																
186.LK																
189.SN25																
189.SN25																
196.SN-02																
197.1																
198.004																
199.011																
200.007_10																
201.SR0003																
202.Lime Kiln EU340																
203.LKScr																
203.LKScr																
203.LKScr																
203.LKScr																
206.G-38																
207.103A																
207.103A																
207.103A																
207.103A																
226.LK1																
226.LK2																
240.CA81																
242.AA-013																
243.LG07																
243.LG07																
531.LK7																
600.G0908																
600.G0905																
600.G0903																
600.G0905																
606.LK4																
615.21																
615.21																
169.03																
617.P22																
126.LK																
132.21LK4																
132.21LK4																
132.21LK4																
132.21LK4																
132.21LK4																
132.21LK4																
132.21LK4																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
132.21LK4																
132.21LK4																
136.EU 033																
136.EU 033																
136.EU 033																
136.EU 033																
136.EU 033																
137.511																
137.511																
137.512																
137.512																
137.512																
137.511																
137.512																
137.512	61.66666667	102.3	43011	14707	37.88	462	28.85	20.28	2.87	28.21290678	gr/dscf @ 10% O2	3	0	5856.22	629.7010753	lb/ton CaO
146.30																
154.P30 - Lime Kiln																
154.P30 - Lime Kiln																
154.P30 - Lime Kiln																
154.P30 - Lime Kiln																
186.LK																
186.LK																
186.LK																
186.LK																
243.LG07																
243.LG07																
105.EU455																
121.000011																
121.000011																
102.LK																
102.LK																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																
102.LK																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
105.EU455																
105.EU455																
105.EU455																
105.EU455																
107.11-P14																
107.11-P14																
109.LK1																
109.LK1																
114.U800																
114.U800																
127.LK1																
127.LK1																
127.LK1																
127.LK2																
127.LK2																
127.LK2																
148.009																
148.009																
148.009																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
156.LK5																
162.372A																
178.09P037																
178.09P037																
178.09P037																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
179.LK3																
196.SN-02																
200.007_10																
200.007_10																
200.007_10																
240.CA81																
606.LK4																
606.LK4																
606.LK4																
606.LK4																
606.LK4																
617.P22																
617.P22																
617.P22																
208228535.009																
208228535.009																
116.001																
117.P36																
119.EQT006																
133.14																
133.14																
135.004-1																
135.004-1																
138.001																
140.32																
140.32																
142.P6009																
142.P6025																
149.P001																
152.08																
155.LIME KILN																
165.000019																
165.000002																
167.004LK																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
173.LK1																
174.G-95																
176.G-5																
177.EU0905																
181.14																
181.14																
181.1																
190.L601																
190.L600																
195.002																
196.SN-09																
205.008																
340.008																
525.EU17																
610.7																
610.7																
610.7																
610.7																
610.7																
610.8																
610.8																
610.8																
613.009																
613.009																
130.4																
130.5																
131.16																
131.16																
157.KILN																
188.001LK1, 002LK2, 003LK3																
206.G-37																
171.009																
171.010																
171.009																

ıte Matter

	Outlet - Testing Methodology Data		Outlet - Average Stack Gas Parameters							Outlet - Average Emissions Data							Removal Efficiency
RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
100.115	113.33	98.9	16700	7050	31.7	353	28.54	20.1	5.6	0.009	gr/dscf @ 10% O2	3	0	0.7	0.0931	lb/ton CaO	
102.LK	66.7	97.3	25686	11496	25.1	427.5	30.07	16.52	8.36	0.0006	gr/dscf @ 10% O2	3	0	0.063	0.0046	lb/ton CaO	
102.LK	66	101.3	25393	11041	29.3	403.5	30.07	16.89	7.89	0.0008	gr/dscf @ 10% O2	3	0	0.084	0.0061	lb/ton CaO	
103.G-165	75.67	100.3	39017	20221	37.9	166	29.63	25.3	3.1	0.0561	gr/dscf @ 10% O2	3	0	16	0.9368	lb/ton CaO	
105.EU455	64	105.6	46243	26557	18.47	285.28	29.75	11.22	11.9	0.0106	gr/dscf @ 10% O2	3	0	1.96	0.2254	lb/ton CaO	
107.11-P14	60	95	22796	10437	28.3	365.1	29.878	23.02	4.89	0.0025	gr/dscf @ 10% O2	3	0	0.32	0.0204	lb/ton CaO	
108.LK1	67	106.67	34913.33	19333	34.78	166.54	30.15	21.77	7.5	0.072	gr/dscf @ 10% O2	3	0	14.1	1.3783	lb/ton CaO	
108.LK1	65	106.27	36386	20236	35.05	166.92	30.42	20.43	6.83	0.045	gr/dscf @ 10% O2	3	0	10.1	0.9883	lb/ton CaO	
108.LK1	60	98.83	31484.33	18128.83	32.67	161.78	30.115	18.68	6.37	0.028	gr/dscf @ 10% O2	6	0	5.78	0.5740	lb/ton CaO	
111.G-35	66.67	103.19	58881.38	23485.33	31.31	447.63	29.87	22.57	4.61	0.0119	gr/dscf @ 10% O2	3	0	3.579	0.2834	lb/ton CaO	
111.G-35	66.67	107.81	58508.9	23631.44	32.57	419.74	29.87	19.63	4.96	0.0055	gr/dscf @ 10% O2	3	0	1.622	0.1301	lb/ton CaO	
114.U800	62.67	95.3	55569	22518	35.51	379.3	29.88	20	5.367	0.0011	gr/dscf @ 10% O2	3	0	0.3	0.01800	lb/ton CaO	
114.U800	60	92.8	54584	23621	31.5	376	29.92	20	6.2	0.0018	gr/dscf @ 10% O2	3	0	0.5	0.0303	lb/ton CaO	
120.M19	60	104.1	35485	16520	43.4	172.3	29.45	15.3	3.3	0.041	gr/dscf @ 10% O2	3	0	5.8056	0.7698	lb/ton CaO	
120.M18	60	103.8	19960	10934	41.3	162.2	29.46	15.6	3.6	0.013	gr/dscf @ 10% O2	3	0	1.21836	0.1491	lb/ton CaO	
124.004-1	69.3	99.2	71706	39621	35.2	161.4	30.01	17.5	7.3	0.0247	gr/dscf @ 10% O2	3	0	10.451	0.2708	lb/ton CaO	
126.LK	60	96.69	21380	14990	20.65	138.1	29.36	21.88	3	0.0014	gr/dscf @ 10% O2	3	0	0.292	0.0190	lb/ton CaO	
127.LK2	61.67	101.8	42963	21648	19.6	372.9	29.59	13.4	9.8	0.0033	gr/dscf @ 10% O2	3	0	0.638	0.0890	lb/ton CaO	
127.LK1	61.67	102.6	39621	18989	21.8	397.4	29.79	14.9	7.6	0.0016	gr/dscf @ 10% O2	3	0	0.314	0.0449	lb/ton CaO	
131.18	99.33	97.2	24500	15500	26.8	152	29.76	23.3	3.3	0.03	gr/dscf @ 10% O2	3	0	6.5	0.7100	lb/ton CaO	
131.18	85.33	93.3	18200	12400	22.3	145	30.04	22.1	4.2	0.032	gr/dscf @ 10% O2	3	0	5.1	0.7100	lb/ton CaO	
131.18	88.33	94.7	21800	13000	30.2	159	30.03	24	2.9	0.074	gr/dscf @ 10% O2	3	0	13.6	1.2800	lb/ton CaO	
131.18	71.33	98.9	18700	11600	29.5	156	30.17	17	7.4	0.087	gr/dscf @ 10% O2	3	0	10.8	1.5800	lb/ton CaO	
132.21LK4	60	102.5	67116	32716	24.87	353.92	29.9	17.58	7.4	0.0583	gr/dscf @ 10% O2	3	0	22.066	0.9194	lb/ton CaO	
136.EU 033	60	100.9	69900	24200	28.8	582	28.74	23.1	34.3	0.03	gr/dscf @ 10% O2	3	0	10	0.5900	lb/ton CaO	
137.512	60	98.88	53700	19900	28.67	531.86	29.23	16.26	6.65	0.002	gr/dscf @ 10% O2	3	0	0.44	0.0506	lb/ton CaO	
139.04	60	100.67	27045	16762	28.76	154.9	30.14	22.6	4.2	0.06	gr/dscf @ 10% O2	3	0	13.3	unspecified		
143.6063	63.67	101	35312	17622	24.6	341.4	30.05	18.83	5.4	0.0044	gr/dscf @ 10% O2	3	0	0.94	0.0475	lb/ton CaO	
145.001	60	98.33	44630.67	22130	39.67	170	29.36	17.867	5	0.038	gr/dscf @ 10% O2	3	0	10.3	unspecified		
146.30	60	96.8	81084	45561	35.3	166.2	28.8	23.8	4.1	0.0053	gr/dscf @ 10% O2	3	0	2.969	0.1116	lb/ton CaO	
146.6	60	94.9	37469	22294	25.7	146.2	27.51	13.2	9.4	0.03	gr/dscf @ 10% O2	3	0	6.072	unspecified		
147.3	60	97.2	30474	14727	41.9	171.4	29.75	16.2	5.2	0.0413	gr/dscf @ 10% O2	3	0	7.45	unspecified		
147.55	60	99.5	88893	31360	28.7	597	29.65	18.5	6.1	0.022	gr/dscf @ 10% O2	3	0	7.94	0.4311	lb/ton CaO	
147.55	60	98.9	83951	29490	28.8	596.3	29.56	19.1	5.9	0.012	gr/dscf @ 10% O2	3	0	4.15	0.2264	lb/ton CaO	
148.003	66.25	96.8	44954	28116	25.6	149.33	29.04	23.5	4.1	0.03	gr/dscf @ 10% O2	4	0	11.2	0.8161	lb/ton CaO	
148.009	67	59.7	37110	14330	35.9	389	28.97	23.2	3.4	0.015	gr/dscf @ 10% O2	3	0	3.01	unspecified		
150.CAU-12	65	99.6	33813	28452	37.8	169	30	20	5.1	0.024	gr/dscf @ 10% O2	3	0	5.4	unspecified		
154.P30 - Lime Kiln	69.3	101.53	23474	13012	32.5	164.4	29.06	19.6	7.2	0.0004	gr/dscf @ 10% O2	3	0	0.05	0.0039	lb/ton CaO	
156.LK5	64	110.8	21107	9604	32.4	308	29.48	20.8	4	0.0019	gr/dscf @ 10% O2	2	0	0.24	0.0203	lb/ton CaO	
156.LK5	64	110.8	23560	10277	34.3	318	29.48	20.8	4	0.0026	gr/dscf @ 10% O2	2	0	0.36	0.0305	lb/ton CaO	
156.LK5	60	106.3	21030	8563	33.8	396	30.05	19.3	5.5	0.0014	gr/dscf @ 10% O2	2	0	0.15	0.0136	lb/ton CaO	
156.LK5	60	106.3	21768	10191	25.3	381	30.05	19.3	5.5	0.0008	gr/dscf @ 10% O2	2	0	0.1	0.0091	lb/ton CaO	
156.LK5	60	101.7	12888	6230	29	316	30.03	18.6	6.2	0.0019	gr/dscf @ 10% O2	2	0	0.14	0.0152	lb/ton CaO	
156.LK5	60	101.7	12972	6545	25.2	317	30.03	18.6	6.2	0.0126	gr/dscf @ 10% O2	2	0	0.85	0.0924	lb/ton CaO	
156.LK5	60	91.9	16252	8305	23.7	335	30.37	19.1	5.7	0.0032	gr/dscf @ 10% O2	2	0	0.32	0.0405	lb/ton CaO	
156.LK5	60	91.9	15455	7519	24.5	367	30.37	19.1	5.7	0.0016	gr/dscf @ 10% O2	2	0	0.14	0.0177	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
156.145000	69.3	104.7	20726	18329	24.3	140	30.11	17.6	6.2	0.0183	gr/dscf @ 10% O2	3	0	2.94	0.3920	lb/ton CaO	
156.145000	65.3	102.1	19206	17455	12.9	123	30.08	18.6	4.7	0.0098	gr/dscf @ 10% O2	3	0	1.9	0.2533	lb/ton CaO	
156.145000	68	98.7	20857	18110	20.3	146	29.89	18.5	5	0.0093	gr/dscf @ 10% O2	3	0	1.7	0.2146	lb/ton CaO	
156.145000	68	103.2	20724	17851	26	149	29.81	17.2	6.7	0.0134	gr/dscf @ 10% O2	3	0	1.98	0.2377	lb/ton CaO	
156.143100	60	101.9	21535	19301	16.2	130	30.06	12.9	10.4	0.0137	gr/dscf @ 10% O2	3	0	1.85	0.3551	lb/ton CaO	
156.143100	60	100.7	23620	20876	15.9	138	30.06	13.7	9.6	0.0149	gr/dscf @ 10% O2	3	0	2.29	0.3137	lb/ton CaO	
156.143100	60	102.7	21266	18993	17.3	137	30.31	12.2	11.1	0.0212	gr/dscf @ 10% O2	3	0	2.56	0.4324	lb/ton CaO	
159.F4	62	102.9	14703	9527	25.6	150.3	30.13	15.5	7.2	0.0385	gr/dscf @ 10% O2	3	0	3.952	unspecified		
162.372A	65.3	105	59400	22800	31	477	29.43	23.5	5.5	0.011	gr/dscf @ 10% O2	3	0	3	0.2063	lb/ton CaO	
162.371A	62.7	100	23000	17600	15	130	29.98	24.2	4.4	0.06	gr/dscf @ 10% O2	3	0	14	1.4538	lb/ton CaO	
163.LK1501	66.7	101.5	28688	14309	40.5	171	29.92	17.3	4.6	0.059	gr/dscf @ 10% O2	3	0	10.7	0.7555	lb/ton CaO	
163.LK2502	66.7	97.2	42380	21949	38.3	168	29.92	18.7	5.7	0.053	gr/dscf @ 10% O2	3	0	13.9	0.9553	lb/ton CaO	
164.P12	60	100	13799	8936	23.9	148.5	29.34	20	7.2	0.0902	gr/dscf @ 10% O2	3	0	9.02	1.8675	lb/ton CaO	
166.LK01	60	101.6	38301	20817	35.9	166	30.07	20.4	6.3	0.1338	gr/dscf @ 10% O2	3	0	32	2.9058	lb/ton CaO	
166.LK02	60	97.2	42225	22279	37.4	168.7	30.04	20.9	5.5	0.0323	gr/dscf @ 10% O2	3	0	8.7	0.7043	lb/ton CaO	
172.LK03	60	99.5	40104	26920	23.4	147.67	29.92	17.5	7.94	0.028	gr/dscf @ 10% O2	3	0	7.6	0.6450	lb/ton CaO	
172.LK03	60	100.5	43434	27367	27.6	154.67	29.92	18.5	7.3	0.034	gr/dscf @ 10% O2	3	0	9.9	0.8584	lb/ton CaO	
174.G-18	60	103.7	109493	46586	30.4	405.3	29.98	22.8	5.7	0.0045	gr/dscf @ 10% O2	3	0	2.5	0.0804	lb/ton CaO	
175.LK2A	60	100.3	49315	29768	26	146.97	29.28	10.49666667	13.57333333	0.0383	gr/dscf @ 10% O2	3	0	8.3	0.5061	lb/ton CaO	
175.LK2A	60	102.1	33846	26084	11.5	117	29.3	5.86	14.2	0.0154	gr/dscf @ 10% O2	3	0	2.6	0.1818	lb/ton CaO	
175.LK1A	60	94.2	20912	13896	22.5	142.3	29.25	10.235	15.94666667	0.0172	gr/dscf @ 10% O2	3	0	0.99	0.3394	lb/ton CaO	
175.LK1A	60	94.6	22626	16641	16	130.33	29.3	9.84	10.7	0.0145	gr/dscf @ 10% O2	3	0	1.9	0.4629	lb/ton CaO	
175.LK1A	60	101.2	23382	13552	31.7	165	30.05	18.6	4.93	0.0109	gr/dscf @ 10% O2	3	0	1.6	0.1738	lb/ton CaO	
178.09P037	60	105.8	68416	33178	41.5	172.4	29.73	17.7	6	0.005	gr/dscf @ 10% O2	3	0	1.9	0.1348	lb/ton CaO	
178.09P037	64	99.8	67534	34855	38.1	169.5	29.73	19.2	6.2	0.005	gr/dscf @ 10% O2	3	0	2	0.1418	lb/ton CaO	
179.LK3	60	103.9	81076	33507	32.2	398	29.67	16.3	7.2	0.0113	gr/dscf @ 10% O2	3	0	4.1	0.1933	lb/ton CaO	
180.L001	60	94.4	20417	13061	24.8	155.8	29.7	15.4	8.1	0.0673	gr/dscf @ 10% O2	3	0	8.9	1.7713	lb/ton CaO	
180.L002	60	99.9	20820	13743	23.2	148.3	29.58	15.2	8.8	0.0585	gr/dscf @ 10% O2	3	0	7.7	1.5321	lb/ton CaO	
184.LK2	60	105.6	41232.7	20784.7	40.3	166.7	29.9	15.5	6.67	0.0045	gr/dscf @ 10% O2	3	0	1.0333	0.0953	lb/ton CaO	
184.LK2	60	101.0	39876.3	22403.7	34.3	160	29.9	18.4	6.33	0.0021	gr/dscf @ 10% O2	3	0	0.52	0.0475	lb/ton CaO	
184.LK1	60	97.5	30655	21779	31.08	153.4	29.9	14	2.59	0.0175	gr/dscf @ 10% O2	3	0	5.81	0.4572	lb/ton CaO	
184.LK1	60	99.8	26029	19407	26.96	150.2	29.92	14	4.9	0.0186	gr/dscf @ 10% O2	3	0	4.55	0.5629	lb/ton CaO	
185.07	60	unspecified	23137.44	14945	24.52	157	29.92	14	3.73	0.0172	gr/dscf @ 10% O2	3	0	2.20332	unspecified		

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
185.07	60	unspecified	17109.44	12042	18.24	153.33	29.92	14.83	7.83	0.0217	gr/dscf @ 10% O2	3	0	2.239812	unspecified		
185.07	60	unspecified	22438.25	14169	26.25	156.66	29.92	11	4.26	0.0105	gr/dscf @ 10% O2	3	0	1.27521	unspecified		
185.07	60	unspecified	32756.54	22785	19.2	153.33	29.92	19.33	5.36	0.01055	gr/dscf @ 10% O2	3	0	2.060415	unspecified		
186.LK	60	100.69	68427	35387	32.14	233	30	21.1	5.9	0.0133	gr/dscf @ 10% O2	3	0	5.56	0.2648	lb/ton CaO	
189.SN25	60	99.71	58888.8	31552.4	36.49	163	29.77	18.22	7.08	0.0679	gr/dscf @ 10% O2	3	0	23.7	unspecified		
189.SN25	66	94.85	57157.1	29559.6	36.39	165	30.02	17.65	6.58	0.0164	gr/dscf @ 10% O2	3	0	5.67	unspecified		
196.SN-02	60	105	56575	23206	36.9	352.8	29.92	16	4.5	0.0052	gr/dscf @ 10% O2	3	0	1.56	0.1006	lb/ton CaO	
197.1	60	105.9	15487	8872	32.9	163.1	30.18	11.87	8.63	0.0428	gr/dscf @ 10% O2	3	0	3.68	0.0548	lb/ton CaO	
198.004	60	99.2	34013	24155	19.7	140.4	30.1	17.7	6	0.0525	gr/dscf @ 10% O2	3	0	14.82	1.0713	lb/ton CaO	
199.011	60	99.5	26302	11747	45.1	175.2	29.3	19.5	3.6	0.0179	gr/dscf @ 10% O2	3	0	2.9	0.2179	lb/ton CaO	
200.007_10	60	100.8	57649	24909	29.9	380.4	29.39	18.7	6.5	0.002	gr/dscf @ 10% O2	3	0	0.67	unspecified		
201.SR0003	60	98	39357.8	23135	31.01	159.2	29.9	16.22	8.92	0.0664	gr/dscf @ 10% O2	3	0	14.47	1.0202	lb/ton CaO	
202.Lime Kiln EU340	60	100.23	24600	12800	39.76	166.9	28.56	21.3	4.6	0.034	gr/dscf @ 10% O2	3	0	5.56	0.7372	lb/ton CaO	
203.LKScr	60	97.6	27895	16037	32.56	163.72	30.13	19.24	4.78	0.034	gr/dscf @ 10% O2	3	0	6.94	unspecified		
203.LKScr	65	104.5	26141	14776	33.4	159.75	29.88	20.37	4.13	0.029	gr/dscf @ 10% O2	3	0	5.97	unspecified		
203.LKScr	60	94.1	28231	16329	31.09	159.78	29.49	20.07	4.32	0.033	gr/dscf @ 10% O2	3	0	6.947	unspecified		
203.LKScr	65	104	26100	14800	33.4	160	29.88	20.4	4.1	0.029	gr/dscf @ 10% O2	3	0	6	unspecified		
206.G-38	67.33	108.8	34083	21654	20.5	145	27.38	19.6	5.8	0.0334	gr/dscf @ 10% O2	3	0	8.571	unspecified		
207.103A	65	99.2	7743	4360	32.04	158.8	29.08	18.56	4.42	0.058	gr/dscf @ 10% O2	3	0	3.27	1.1354	lb/ton CaO	
207.103A	61.33	99.2	7948	4547	31.14	157.8	29.08	19.24	4.48	0.058	gr/dscf @ 10% O2	3	0	3.43	1.1910	lb/ton CaO	
207.103A	61	102	8316	4707	31.51	158.8	29.98	19.35	4.08	0.067	gr/dscf @ 10% O2	3	0	4.15	1.4410	lb/ton CaO	
207.103A	61.33	101.9	8273	4573	33.04	159.6	29.98	19.67	4.04	0.082	gr/dscf @ 10% O2	3	0	4.96	1.7222	lb/ton CaO	
226.LK1	63.33	100	68255	39907	31	165	29.9	12.67	9.3	0.0378	gr/dscf @ 10% O2	3	0	13.69	unspecified		
226.LK2	64	96	54174	34241	26.2	159.9	30.07	14.7	6.93	0.0065	gr/dscf @ 10% O2	3	0	2.42	unspecified		
240.CA81	60	97.9	68787	38462	33.8	161.7	29.67	25.8	2.1	0.0014	gr/dscf @ 10% O2	3	0	0.8	0.0290	lb/ton CaO	
242.AA-013	60	103.2	59707	35205	30.3	159.2	29.72	17.8	9.2	0.0072	gr/dscf @ 10% O2	3	0	2.312	0.1284	lb/ton CaO	
243.LG07	60	101.1	92698	49098	36.6	168.9	29.79	20.2	5.9	0.003	gr/dscf @ 10% O2	3	0	1.75	unspecified		
243.LG07	60	101.4	74452	42716	32.4	162.7	29.93	19.8	6	0.026	gr/dscf @ 10% O2	3	0	12.88	unspecified		
531.LK7	60	94.9	80882	31717	26.5	526.8	29.84	22.7	3.9	0.0023	gr/dscf @ 10% O2	3	0	0.96	0.0369	lb/ton CaO	
600.G0908	60	96.5	30504	18236	29.7	158.4	29.64	22.1	4.9	0.014	gr/dscf @ 10% O2	3	0	3.1	0.2600	lb/ton CaO	
600.G0905	60	98.6	43643	22079	39.6	167.1	29.29	18.2	5.5	0.0344	gr/dscf @ 10% O2	3	0	9.2	0.7610	lb/ton CaO	
600.G0903	60	105	21956	11062	42.1	167.6	29.31	20.8	3.5	0.091	gr/dscf @ 10% O2	3	0	13.68	1.7181	lb/ton CaO	
600.G0905	60	97.8	45706.2	23206.7	40	166.4	29.3	17.1	5.5	0.0476	gr/dscf @ 10% O2	3	0	13.3	1.1010	lb/ton CaO	
606.LK4	60	96.07	89952	36817	27.84	472.69	29.97	22.16	3.89	0.0074	gr/dscf @ 10% O2	3	0	20	0.7380	lb/ton CaO	
615.21	60	100.7	22503	15465	21.7	145.3	30.12	16.04	6.72	0.0223	gr/dscf @ 10% O2	3	0	3.88	0.3887	lb/ton CaO	
615.21	60	100.7	22503	15465	21.7	145.3	30.12	16.04	6.72	0.0248	gr/dscf @ 10% O2	3	0	4.31	0.4317	lb/ton CaO	
169.03	70	101.7	51672	29575	32.8	160.6	29.79	17.8	7.67	0.075093773	gr/dscf @ 10% O2	3	0	23.34	unspecified		
617.P22	65	106.5	29522	11347	34.6	403.5	28.77	16.6	7.2	0.0044	gr/dscf @ 10% O2	3	0	0.5484	0.086589474	lb/ton CaO	
126.LK	66	100.5666667	37899	19253	27.3	296.9333333	29.89	15.6	4.8	0.003779835	gr/dscf @ 10% O2	3	0	0.923333333	0.109386724	lb/ton CaO	
132.21LK4	60	94.97	64987	31604	24.01	371.75	30.15	18.31	7.23	0.0013	gr/dscf @ 10% O2	3	0	0.477	0.018898574	lb/ton CaO	
132.21LK4	60	98.30666667	59983	27629	26.77	377.67	29.88	16.50	8.83	0.0026	gr/dscf @ 10% O2	3	0	0.727	0.032718272	lb/ton CaO	
132.21LK4	64	98.1	63621.33333	28946.66667	28.9	365.3	29.93	16.4	7.0	0.004557143	gr/dscf @ 10% O2	3	0	1.447	0.062165258	lb/ton CaO	
132.21LK4	64	95.3	62998	28443	27.2	392.1	29.96	13.3	7.9	0.004954198	gr/dscf @ 10% O2	3	0	1.448	0.0603	lb/ton CaO	
132.21LK4	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	0.0165	gr/dscf @ 10% O2	3	0	4.786	0.1919	lb/ton CaO	
132.21LK4	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	0.0033	gr/dscf @ 10% O2	3	0	0.898	unspecified		
132.21LK4	66	102.7	63578	31369	22.9	365.2	29.92	15.6	9.2	0.013516949	gr/dscf @ 10% O2	3	0	3.889	0.0562	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
132.21LK4	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	0.0368	gr/dscf @ 10% O2	unspecified	unspecified	10.13	0.450883518	lb/ton CaO	
132.21LK4	60	104.3266667	60235	28173	30.64	326.58	30.05	17.51	7.71	0.0143	gr/dscf @ 10% O2	3	0	4.62	0.188571429	lb/ton CaO	
136.EU 033	74.66666667	101.6666667	71086.33333	26098.66667	25.47333333	571.6666667		17.36666667	6.066666667	0.016794643	gr/dscf @ 10% O2	3	0	5.01	0.32870421	lb/ton CaO	
136.EU 033	64.66666667		71633.33333	25100	29.48333333	562.1	28.8	24.55	2.65	0.029613079	gr/dscf @ 10% O2	3	0	10.62333333	0.585845588	lb/ton CaO	
136.EU 033	65.66666667	97.1	65250.66667	24128	27.53333333	553.3333333	29.31	20.7	5.6	0.023866667	gr/dscf @ 10% O2	3	0	6.93	0.382169118	lb/ton CaO	
136.EU 033	63.66666667	97.8	68467.66667	23438	28.21666667	603.3333333	28.75	21.33666667	3.266666667	0.01937406	gr/dscf @ 10% O2	3	0	6.3	0.361924519	lb/ton CaO	
136.EU 033	63.33333333	103.1	76919	25660	30.23	598	28.75	21.35	4.29	0.0258	gr/dscf @ 10% O2	3	0	8.625	0.501048895	lb/ton CaO	
137.511	73.66666667	104	41500	16100	31.6	454	29.48	20.38	3.3	0.0009	gr/dscf @ 10% O2	3	0	0.21	0.024585366	lb/ton CaO	
137.511	62.33333333	99	38894	15287	29.97	460	29.26	23.9	2.6	0.0004	gr/dscf @ 10% O2	3	0	0.093	0.011772152	lb/ton CaO	
137.512	63	100	49663	17524	34.06	501.05	29.14	20.15	3.9	0.00105	gr/dscf @ 10% O2	6	0	0.25	0.028735632	lb/ton CaO	
137.512	69.33333333	101	52200	17900	31.2	566	29.08	23	4.3	0.0011	gr/dscf @ 10% O2	3	0	0.28	0.032183908	lb/ton CaO	
137.512	63	101.6666667	42895	15312	32.72	514.2	29.29	21.3	2.1	0.0004	gr/dscf @ 10% O2	3	0	0.099	0.012531646	lb/ton CaO	
137.511	74	101	46700	17700	29.9	494	29.33	20.9	3.4	0.0017	gr/dscf @ 10% O2	3	0	0.42	0.046666667	lb/ton CaO	
137.512	68	100.1	38947	14773	34.77	411	28.77	19.13	4.23	0.00068873	gr/dscf @ 10% O2	3	0	0.133	0.014239829	lb/ton CaO	
137.512	60.66666667	100.8	37586	14725	33.31	402	28.77	19.33	4.08	0.000981678	gr/dscf @ 10% O2	3	0	0.191	0.020537634	lb/ton CaO	100.0
146.30	64.66666667	101.2	76736	34499	44.9	164.3	28.86	23.6	5.3	0.0034	gr/dscf @ 10% O2	3	0	1.458	unspecified		
154.P30 - Lime Kiln	67.66666667	97.5	39800	17300	31.5	326	28.32	21.3	5.0	0.0040	gr/dscf @ 10% O2	3	0	0.863333333	unspecified		
154.P30 - Lime Kiln	70.66666667	107	32406	16805	37.9	166.4	29.62	19.0	4.3	0.0015	gr/dscf @ 10% O2	3	0	0.321	0.024745182	lb/ton CaO	
154.P30 - Lime Kiln	70.66666667	96.33333333	29953	17301	31.1	161	29.52	21.1	6.28	0.0009	gr/dscf @ 10% O2	3	0	0.180	0.015391924	lb/ton CaO	
154.P30 - Lime Kiln	75.33333333	96.73333333	27947	15259	34	169.7	29.53666667	17.4	6.99	0.0004	gr/dscf @ 10% O2	3	0	0.059	0.004592432	lb/ton CaO	
186.LK	65.66666667	94.7	78560	42734	32.2	202	30.11	13.9	6.7	0.00986	gr/dscf @ 10% O2	3	0	4.67	0.214378379	lb/ton CaO	
186.LK	64	95.7	73438	39373	33.4	195	29.87	14.33666667	6.05	0.0235	gr/dscf @ 10% O2	3	0	10.8	0.620095694	lb/ton CaO	
186.LK	66	105.1	67951	34503	33	235	30.03	23.2	4.9	0.050	gr/dscf @ 10% O2	3	0	21	1.060829299	lb/ton CaO	
186.LK	64	96.6	63222	34965	33.3	172	29.71	20.32	6.2	0.0132	gr/dscf @ 10% O2	3	0	5.32	unspecified		
243.LG07	64.33333333	98	75393	41135	36	165	30.17	20.8	5.8	0.007	gr/dscf @ 10% O2	3	0	3.2	unspecified		
243.LG07	64.66666667	99	84991	52129	28.6	159	30.09	17.4	7.3	0.002	gr/dscf @ 10% O2	3	0	1.23	unspecified		
105.EU455	63	102.4	57016	29327	21.99	327.67	29.44	11.00	11.73	0.0047	gr/dscf @ 10% O2	3	0	0.98	0.048226369	lb/ton CaO	
121.000011	60	100	33350	21900	25	150	30.12	7.9	12.6	0.015	gr/dscf @ 10% O2	3	0	2.2	0.214634146	lb/ton CaO	
121.000011	60	100	39175	22800	33	163	30.57	19	5.7	0.017	gr/dscf @ 10% O2	3	0	4.5	unspecified		
102.LK	60	101	14927	7222.1	28.75	307.2	29.55	17.7	7.4	0.0009	gr/dscf @ 10% O2	3	1	0.069	0.005798319	lb/ton CaO	
102.LK	60	94.3	16374	7664.5	30.85	308.4	29.54	18	7.3	0.0005	gr/dscf @ 10% O2	3	2	0.046	0.003865546	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
102.LK	60	98.7	23916	11300	29.45	342.9	30.44	17.2	7.2	0.0006	gr/dscf @ 10% O2	3	0	0.071	0.005419847	lb/ton CaO	
102.LK	60	98	26069	12038	31.99	331.1	30.44	17.4	6.9	0.001	gr/dscf @ 10% O2	3	0	0.132	0.010076336	lb/ton CaO	
102.LK	60	100	40810	18160	31.98	351.9	30.1	17	7.5	0.0008	gr/dscf @ 10% O2	3	0	0.161	0.011095796	lb/ton CaO	
102.LK	60	102.3	40802	17824	35.25	326.9	30.1	16.8	7.8	0.001	gr/dscf @ 10% O2	3	0	0.178	0.012267402	lb/ton CaO	
102.LK	60	96.3	28119	13194	27.27	367.7	30.29	19.4	6.7	0.0001	gr/dscf @ 10% O2	3	2	0.014	0.001069519	lb/ton CaO	
102.LK	60	103	30312	14407	26.63	366.3	30.3	19.5	6.7	0.0007	gr/dscf @ 10% O2	3	0	0.105	0.00802139	lb/ton CaO	
102.LK	72	96.3	15256	7121.3	27.75	351.7	29.72	15.3	8.82	0.0035	gr/dscf @ 10% O2	3	0	0.237	0.022379603	lb/ton CaO	
102.LK	72	99.3	19290	9039.5	28.68	338.1	29.72	14.95	9.06	0.0053	gr/dscf @ 10% O2	3	0	0.454	0.042870633	lb/ton CaO	
102.LK	60	92	33000	15000	28.1	392	30.49	15.3	8.7	0.00056	gr/dscf @ 10% O2	3	0	0.08	0.005673759	lb/ton CaO	
102.LK	60	100	32500	14700	30.3	371	30.49	14.3	9.4	0.0014	gr/dscf @ 10% O2	3	0	0.21	0.014893617	lb/ton CaO	
102.LK	68	99	20700	9090	27.1	414	29.89	18	11.7	0.00055	gr/dscf @ 10% O2	3	0	0.036	0.002416107	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
102.LK	67	107	21500	9020	31.1	408	29.89	16	8	0.0011	gr/dscf @ 10% O2	3	0	0.1	0.006711409	lb/ton CaO	
102.LK	60	102	28800	12000	31.7	411	30.16	17.3	7.4	0.00091	gr/dscf @ 10% O2	3	0	0.11	0.007676204	lb/ton CaO	
102.LK	60	105	31400	12700	34.8	396	30.16	17.4	7.4	0.0014	gr/dscf @ 10% O2	3	0	0.18	0.012561061	lb/ton CaO	
102.LK	60	92	30266	13942	27.86	374.9	30.19	17.7	7.5	0.0001	gr/dscf @ 10% O2	3	1	0.013	0.000989346	lb/ton CaO	
102.LK	60	94	29825	13622	30.2	356.5	30.2	17.9	7.5	0.0005	gr/dscf @ 10% O2	3	0	0.07	0.005327245	lb/ton CaO	
102.LK	60	101.7	31389	13941	29.52	375.7	29.85	18.1	7.2	0.0001	gr/dscf @ 10% O2	3	2	0.011	0.000780142	lb/ton CaO	
102.LK	60.3	106	29599	12185	36.85	347.7	29.84	18	7.2	0.001	gr/dscf @ 10% O2	3	0	0.122	0.008652482	lb/ton CaO	
102.LK	60	96	24524	11067	27.69	388.6	30.03	17.79	7.4	0.0007	gr/dscf @ 10% O2	3	0	0.088	0.006353791	lb/ton CaO	
102.LK	60	94.7	25981	11463	30.8	370.5	30.03	17.55	7.64	0.0014	gr/dscf @ 10% O2	3	0	0.177	0.012779783	lb/ton CaO	
102.LK	60	103.7	16862	7589	28.17	386.2	30.05	18.29	7.32	0.0002	gr/dscf @ 10% O2	3	2	0.018	0.001278409	lb/ton CaO	
102.LK	60	104	22585	10014	30.76	368.2	30.06	18.23	7.29	0.0011	gr/dscf @ 10% O2	3	0	0.119	0.008451705	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
105.EU455	68.3	95.3	60570	34494	17.08	297.33	29.50	8.79	13.81	0.021	gr/dscf @ 10% O2	3	0	4.23	unspecified		
105.EU455	64	99.7	52505	29133	21.7	288.51	30.06	9.25	12.95	0.0014	gr/dscf @ 10% O2	3	0	0.26	unspecified		
105.EU455	63.7	99.7	48572	25778	22.65	298.14	29.50	10.53	11.93	0.0023	gr/dscf @ 10% O2	3	0	0.37	unspecified		
105.EU455	69.3	95.3	46766	26088	20.75	281.48	29.54	11.07	12	0.0024	gr/dscf @ 10% O2	3	0	0.45	unspecified		
107.11-P14	60	98.8	21000	9305	28.6	379.6	29.54	23.7	3.8	0.0029	gr/dscf @ 10% O2	3	0	0.367	0.023	lb/ton CaO	
107.11-P14	60	100.2	21689	9735	30.9	346.4	29.71	25.37	3.33	0.0046	gr/dscf @ 10% O2	3	0	0.619	0.041	lb/ton CaO	
109.LK1	72	103.4	29639	12974	31.60	367.8	30.04	21.83	4.47	0.0066	gr/dscf @ 10% O2	3	0	1.1	0.082	lb/ton CaO	
109.LK1	60	98.1	55729	24492	26.53	419.1	29.8	24.8	4.2	0.0049	gr/dscf @ 10% O2	3	0	1.54	0.12	lb/ton CaO	
114.U800	63.3	105.5	48640	21578	30.13	365	29.69	19.33	6	0.0039	gr/dscf @ 10% O2	3	0	0.97	0.060	lb/ton CaO	
114.U800	62.3	105.5	60370	23753	32	448	29.77	14.5	4.6	0.0033	gr/dscf @ 10% O2	3	0	1.02	0.063	lb/ton CaO	
127.LK1	63	102.6	35725	17376	21.6	392.3	29.98	12	9.2	0.011	gr/dscf @ 10% O2	3	0	1.743	0.258	lb/ton CaO	
127.LK1	65.7	98	35047	16904	23.3	380.5	29.94	14.9	7.7	0.0109	gr/dscf @ 10% O2	3	0	1.919	0.328	lb/ton CaO	
127.LK1	69.7	94	38361	21817	20	288.6	30.15	14.8	7.7	0.0079	gr/dscf @ 10% O2	3	0	1.795	0.2502	lb/ton CaO	
127.LK2	63.3	92.6	38319	18563	20.4	409.7	29.98	12.4	11.5	0.0061	gr/dscf @ 10% O2	3	0	0.834	0.123	lb/ton CaO	
127.LK2	60	100.5	35436	17065	22.6	392.3	30.05	13	10.2	0.0138	gr/dscf @ 10% O2	3	0	1.982	0.332	lb/ton CaO	
127.LK2	67	99.9	40980	22369	21.8	303.2	30.16	13.3	9.8	0.013	gr/dscf @ 10% O2	3	0	2.542	0.3783	lb/ton CaO	
148.009	69.7	96.2	33980	15078	30.8	368.7	30.09	23.09	2.75	0.00647	gr/dscf @ 10% O2	3	0	1.28	unspecified		
148.009	67	109.3	42303	18191	36.2	323.7	29.92	3.66	3.66	0.0061	gr/dscf @ 10% O2	3	0	1.5	unspecified		
148.009	64	104.6	41292	16293	38.2	340.7	28.95	20.07	4.42	0.00588	gr/dscf @ 10% O2	3	0	1.25	unspecified		
156.LK5	60	100.3	15463	7325	30.6	317		18.7	6.1	0.0003	gr/dscf @ 10% O2	2	0	0.02	0.003	lb/ton CaO	
156.LK5	60	107.7	15565	7243	31.4	324		18.7	6.1	0.0001	gr/dscf @ 10% O2	2	0	0.01	0.001	lb/ton CaO	
156.LK5	60	99.1	7345	3803	26	300		18	6.8	0.0014	gr/dscf @ 10% O2	2	0	0.06	0.012	lb/ton CaO	
156.LK5	60	101.1	9704	4723	29.2	305		18	6.8	0.0011	gr/dscf @ 10% O2	2	0	0.06	0.012	lb/ton CaO	
156.LK5	60	106.3	18876	8141	32.9	361		19.1	5.7	0.0317	gr/dscf @ 10% O2	2	0	3.09	0.285	lb/ton CaO	
156.LK5	60	108.8	21175	9649	32.4	322		19.2	5.6	0.0039	gr/dscf @ 10% O2	2	0	0.45	0.04154	lb/ton CaO	
156.LK5	60	101.3	14239	6588	31.4	326		19.6	5.2	0.001	gr/dscf @ 10% O2	2	0	0.08	0.008	lb/ton CaO	
156.LK5	60	110	20220	9163	32.8	326		19.6	5.2	0.0009	gr/dscf @ 10% O2	2	0	0.1	0.01	lb/ton CaO	
162.372A	60	101.3	50710	20483	29.2	456.33	29.6	22.5	4.9	0.0023	gr/dscf @ 10% O2	3	0	0.59	0.042	lb/ton CaO	
178.09P037	64	96	54965	27220	39.8	170.5	29.43	16.9	5	0.057	gr/dscf @ 10% O2	3	0	18.88	1.01	lb/ton CaO	
178.09P037	64	99	31548	18623	29.6	160.7	29.48	17.5	5.4	0.006	gr/dscf @ 10% O2	3	0	1.45	0.487	lb/ton CaO	
178.09P037	64	96.8	41309	21583	37.7	169.8	29.96	17.8	6.2	0.024	gr/dscf @ 10% O2	3	0	5.8	0.322	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
179.LK3	60	103.4	41554	22433	26.9	256.2	30.11	16	8.8	0.012	gr/dscf @ 10% O2	3	0	2.64	0.173	lb/ton CaO	
196.SN-02	62.7	98.6	57981	23874	35.7	369.4	30.11	19.97	4.67	0.0026	gr/dscf @ 10% O2	3	0	0.8	0.064	lb/ton CaO	
200.007_10	60	103.2	66265	27964	32.5	376.7	29.69	23.8	3.6	0.0056	gr/dscf @ 10% O2	3	0	2.1	0.129	lb/ton CaO	
200.007_10	60	99.9	68541	26013	32	469.8	29.43	20.5	4.4	0.0049	gr/dscf @ 10% O2	3	0	1.7	0.100	lb/ton CaO	
200.007_10	60	100	65149	25104	28.5	495.6	29.2	20.6	5.4	0.006	gr/dscf @ 10% O2	3	0	1.82	0.118	lb/ton CaO	
240.CA81	60	107	90131	54400	29.1	160	29.91	22.4	4.5	0.011	gr/dscf @ 10% O2	2	0	7.912	unspecified		
606.LK4	66.7	99.33	104362	40766	27.4	526	30.08	22.9	4.17	0.0173	gr/dscf @ 10% O2	3	0	9.31	0.345	lb/ton CaO	
606.LK4	60	99.1	93594	36138	26	549.2	29.84	24	3.2	0.0103	gr/dscf @ 10% O2	3	0	5.2	0.191	lb/ton CaO	
606.LK4	60	102.0	116388	41644	32.48	543		19.64	4.09	0.0093	gr/dscf @ 10% O2	3	0	5.42	0.200	lb/ton CaO	
606.LK4	71.7	100.9	107786	39009	31.28	538		20.82	3.79	0.009	gr/dscf @ 10% O2	3	0	5.14	0.190	lb/ton CaO	
606.LK4	60	99.4	109573	39503	30.74	559		20.38	3.79	0.0082	gr/dscf @ 10% O2	3	0	4.37	unspecified		
617.P22	66	92.1	28405	11922	24.97	462.1	29.26	15	8.6	0.0046	gr/dscf @ 10% O2	3	0	0.533	0.088	lb/ton CaO	
617.P22	72.3	102.8	30169	12422	27.8	436.1	28.96	15	8.6	0.0061	gr/dscf @ 10% O2	3	0	0.513	unspecified		
617.P22	70.3	103	29099	12010	28.4	426.1	28.96	16	8.2	0.0032	gr/dscf @ 10% O2	3	0	0.375	0.060	lb/ton CaO	
208228535.009	61.7	102.3	68373	28627	26.6	467.7		21.33	5.27	0.004	gr/dscf @ 10% O2	3	0	1.4	unspecified		
208228535.009	62.3	96.5	62186	25904	26.7	462.7		25.17	3.77	0.011	gr/dscf @ 10% O2	3	0	4	unspecified		
116.001	60	96	39393	25620	25.4	153	unspecified	20	6.5	0.046	gr/dscf @ 10% O2	3	0	13.36	1.284615385	lb/ton CaO	
117.P36	60	100.8	13510	7585	30.3	155	unspecified	18.1	5.3	0.029426752	gr/dscf @ 10% O2	3	0	2.75	0.876494024	lb/ton CaO	
119.EQT006	60	97.1	55400	27320	41.2	170	29.97	21	3.25	0.293126761	gr/dscf @ 10% O2	3	0	110.8	unspecified		
133.14	72	100.33	33071	19594	31	159	unspecified	16.9	6.9	0.0335	gr/dscf @ 10% O2	1	0	5.634166667	unspecified		
133.14	60	99.03	36640	22573	29	156	unspecified	16.8	6.1	0.0222	gr/dscf @ 10% O2	1	0	4.289166667	unspecified		
135.004-1	60	98.2	48400	27200	35.5	161	29.8	22.6	4.9	0.034	gr/dscf @ 10% O2	3	0	11.6	0.912786885	lb/ton CaO	
135.004-1	60	101.8	47600	26600	36.5	161	29.62	20.6	5.1	0.037	gr/dscf @ 10% O2	3	0	12.2	0.906501548	lb/ton CaO	
138.001	60	95.8	31189.34454	27844.86667	15.77	133	30	5.27	11.67	0.0264	gr/dscf @ 10% O2	3	0	2.65	0.363844394	lb/ton CaO	
140.32	60	98.2	26679	12785	41.93333333	171	29.50333333	17	4.233333333	0.024	gr/dscf @ 10% O2	3	0	4	0.547945205	lb/ton CaO	
140.32	60	102.4	24863	12943	38.6	168.7	30.2	18.56666667	3.733333333	0.020666667	gr/dscf @ 10% O2	3	0	3.6	0.428571429	lb/ton CaO	
142.P6009	60	101	29191	16762	31.9	159	29.56	23.7	3.7	0.051	gr/dscf @ 10% O2	3	0	11.64	1.579197287	lb/ton CaO	
142.P6025	60	101	29826	17699	29.9	156	29.56	15.79	8.6	0.035	gr/dscf @ 10% O2	3	0	6.03	0.981152542	lb/ton CaO	
149.P001	60	103.5	22300	12100	35	161	28.97	21.5	2.9	0.02929851	gr/dscf @ 10% O2	3	0	5	unspecified		
152.08	60	100	27915	16095	33.5	159.8	29.83	16.1	7.9	0.062	gr/dscf @ 10% O2	3	0	10.2	0.66946217	lb/ton CaO	
155.LIME KILN	60	104.13	33623	27960	33.43	161	unspecified	10	8.93	0.0615	gr/dscf @ 10% O2	3	0	10.78	1.026666667	lb/ton CaO	
165.000019	60	97	22959	16400	19	138	29.7	14.7	10.7	0.052	gr/dscf @ 10% O2	3	0	6.8	0.883116883	lb/ton CaO	
165.000002	60	101	53640	32300	30	157	29.85	13.7	10.4	0.028	gr/dscf @ 10% O2	3	0	7.7	0.506578947	lb/ton CaO	
167.004LK	60	94	47144	24703	38.2	167	30.14076667	19.62	4.62	0.102478632	gr/dscf @ 10% O2	3	0	32.21	2.825438596	lb/ton CaO	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
173.LK1	60	100	25342	14685	32.2	161	30.1	14.7	10.8	0.0533	gr/dscf @ 10% O2	3	0	6.21	0.730588235	lb/ton CaO	
174.G-95	60	97.5	35893	26306	17.4	136	29.98	16	9.1	0.055	gr/dscf @ 10% O2	3	0	13.3	0.928252373	lb/ton CaO	
176.G-5	60	98.39	27264	15417	34.02	162.78	30	23.87	3.57	0.064	gr/dscf @ 10% O2	3	0	13.4108	1.46726477	lb/ton CaO	
177.EU0905	60	94.5	43296	21942	36.7	169.4	28.55	22.4	3.6	0.0281	gr/dscf @ 10% O2	3	0	8.339	0.296937685	lb/ton CaO	
181.14	60	104	22432	12800	33	161	29.87	19.1	3.9	0.018	gr/dscf @ 10% O2	3	0	3	0.25862069	lb/ton CaO	
181.14	60	104.6	23702	12500	37	166	29.73	15.3	4.8	0.051	gr/dscf @ 10% O2	3	0	8	0.720720721	lb/ton CaO	
181.1	60	94.3	28798	18300	16.2	154	30.06	16.2	7	0.022	gr/dscf @ 10% O2	3	0	4.4	0.360655738	lb/ton CaO	
190.L601	60	102.3	46474	24426	37.8	170.33	30.15	14.12	6.87	0.016	gr/dscf @ 10% O2	3	0	4.38	unspecified		
190.L600	60	96.7	45983	27917	28.7	159.33	29.92	15.1	6.99	0.037	gr/dscf @ 10% O2	3	0	11.2	0.401433692	lb/ton CaO	
195.002	60	92.6	37592	27809	16.5	136	29.89	17.4	8.9	0.017	gr/dscf @ 10% O2	3	0	4.4	0.23117338	lb/ton CaO	
196.SN-09	60	97	46388	25151	35.5	171.5	30.03	20.9	5.73	0.0538	gr/dscf @ 10% O2	4	0	16.6	1.325055432	lb/ton CaO	
205.008	60	100	26078	13400	38.7	170.6666667	unspecified	16.3	5.26	0.03	gr/dscf @ 10% O2	3	0	5	unspecified		
340.008	60	93	40324	24712	28.6	159	30.01	14.33333333	5.9	0.0856	gr/dscf @ 10% O2	3	0	24.62	0.487524752	lb/ton CaO	
525.EU17	60	98	49058	29506	30	158	29.91	23.03	4.5	0.024059756	gr/dscf @ 10% O2	3	0	9.2	0.227160494	lb/ton CaO	
610.7	60	102	24583	13878.1	33.5	163	unspecified	21.22	5.3	0.075	gr/dscf @ 10% O2	3	0	12.82	0.915714286	lb/ton CaO	
610.7	60	104.1	26508	14291.75	36.2	166.6	unspecified	21.31	4.91	0.089	gr/dscf @ 10% O2	3	0	16.03	1.001875	lb/ton CaO	
610.7	60	101	30143	15791.08333	37.3	166	unspecified	21.56	4.93	0.077	gr/dscf @ 10% O2	3	0	15.29	0.899411765	lb/ton CaO	
610.7	60	101	26550	15153.5	33.7	161.6	unspecified	22.02	5.15	0.073	gr/dscf @ 10% O2	3	0	13.78	0.86125	lb/ton CaO	
610.7	60	101	25303	14677.4	32.3	161.8	unspecified	21.26	5.32	0.073	gr/dscf @ 10% O2	3	0	13.16	0.94	lb/ton CaO	
610.8	60	103.8	19551	10513.95	36.6	166	unspecified	20.3	5.4	0.066	gr/dscf @ 10% O2	3	0	8.44	0.602857143	lb/ton CaO	
610.8	60	107	21155	11196.88333	37.3	166.5	unspecified	21.5	4.86	0.062	gr/dscf @ 10% O2	3	0	8.73	0.545625	lb/ton CaO	
610.8	60	106.5	21992	11409.96667	38	168.3	unspecified	23.7	3.3	0.062	gr/dscf @ 10% O2	3	0	9.73	0.572352941	lb/ton CaO	
613.009	60	92	48185	28834	29.9	160	30.0026	19.57	4.51	0.0288	gr/dscf @ 10% O2	3	0	10.7	unspecified		
613.009	60	97	53105	34481	25.4	152	30.1612	19.55	6.39	0.0317	gr/dscf @ 10% O2	3	0	12.48	unspecified		
130.4	64.00	102.30	21546	11084	38.90	168.7	29.98	13.08	7.54	0.033	gr/dscf @ 10% O2	3	0	3.77	0.6253	lb/ton CaO	
130.5	63.33	98.50	22709	13268	31.50	159.3	29.94	10.10	10.75	0.0318	gr/dscf @ 10% O2	3	0	3.37	0.5859	lb/ton CaO	
131.16	65.67	97.40	27800	14100	37.70	173.0	29.28	23.40	4.00	0.09	gr/dscf @ 10% O2	3	0	16.8	unspecified		
131.16	65.00	95.60	20100	11800	29.00	178.0	29.93	20.10	5.80	0.093	gr/dscf @ 10% O2	3	0	13.1	unspecified		
157.KILN	60.00	unspecified	18217	10428	unspecified	161.0	29.90	15.90	9.40	0.046	gr/dscf @ 10% O2	3	0	4.4	1.1852	lb/ton CaO	
188.001LK1, 002LK2, 003LK3	60.00	101.09	34700	20806	30.24	157.3	29.91	16.30	6.50	0.069	gr/dscf @ 10% O2	3	0	16.06	1.328	lb/ton CaO	
206.G-37	62.00	96.90	24303	14026	27.40	148.3	27.40	18.00	6.70	0.0417	gr/dscf @ 10% O2	3	0	6.52	unspecified		
171.009	60.00	99.30	58102	30805	36.80	166.7	29.81	12.40	7.50	0.0322	gr/dscf @ 10% O2	3	0	10.44	1.358785249	lb/ton CaO	
171.010	60.00	101.00	37294	19086	38.70	169.1	29.77	12.70	7.20	0.0828	gr/dscf @ 10% O2	3	0	15.42	2.120802292	lb/ton CaO	
171.009	60.00	92.40	34779	18476	36.80	134.5	29.89	18.60	5.60	0.0194	gr/dscf @ 10% O2	3	0	4.3	0.5488	lb/ton CaO	

ıte Matter

	Suspect Data		Exclude		Comment	Data analysis notes		Multi-stack sums				
RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
100.115	Yes	Run 1 stopped due to storm	M			100.115.PM		0.7	0.0931	1	0.7	0.0931
102.LK						102.LK .PM	separate stacks			2		
102.LK						102.LK .PM	separate stacks	0.147	0.010652174	3	0.147	0.010652174
103.G-165						103.G-165.PM		16	0.9368	4	16	0.9368
105.EU455					Two lime kilns vent through the same ESP. Only lime kiln 3 was operating during the test.	105.EU455.PM		1.96	0.2254	5	1.96	0.2254
107.11-P14						107.11-P14.PM		0.32	0.0204	6	0.32	0.0204
108.LK1						108.LK1.PM	Separate conditions: Performance Engineering Test cond. I (Scrubber P-drop = 8 in. H2O)	14.1	1.3783	7	14.1	1.3783
108.LK1						108.LK1.PM	Separate conditions: Performance Engineering Test cond. II (Scrubber P-drop = 9.2 in. H2O)	10.1	0.9883	8	10.1	0.9883
108.LK1						108.LK1.PM	different dates w/in same year (MACT compliance test)	5.78	0.5740	9	5.78	0.5740
111.G-35						111.G-35.PM	Separate conditions: Cond 1 = fuel oil	3.579	0.2834	10	3.579	0.2834
111.G-35						111.G-35.PM	Separate conditions: Cond 2 = gas	1.622	0.1301	11	1.622	0.1301
114.U800						114.U800.PM	Separate conditions: gas	0.3	0.0180	12	0.3	0.0180
114.U800						114.U800.PM	Separate conditions: oil	0.5	0.0303	13	0.5	0.0303
120.M19						120.M19.PM		5.8056	0.7698	14	5.8056	0.7698
120.M18						120.M18.PM		1.21836	0.1491	15	1.21836	0.1491
124.004-1						124.004-1.PM		10.451	0.2708	16	10.451	0.2708
126.LK						126.LK.PM		0.292	0.0190	17	0.292	0.0190
127.LK2						127.LK2.PM	different years	0.638	0.0890	18	0.638	0.0890
127.LK1						127.LK1.PM	different years	0.314	0.0449	19	0.314	0.0449
131.18						131.18.PM	different dates w/in same year	6.5	0.7100	20	6.5	0.7100
131.18						131.18.PM	different dates w/in same year	5.1	0.7100	21	5.1	0.7100
131.18						131.18.PM	different dates w/in same year	13.6	1.2800	22	13.6	1.2800
131.18						131.18.PM	different dates w/in same year	10.8	1.5800	23	10.8	1.5800
132.21LK4						132.21LK4.PM		22.066	0.9194	24	22.066	0.9194
136.EU 033						136.EU 033.PM		10	0.5900	25	10	0.5900
137.512	Yes	Second Run PM Conc value is 2.5 times then First and Third Run	M			137.512.PM		0.44	0.0506	26	0.44	0.0506
139.04						139.04.PM		13.3		27	13.3	
143.6063						143.6063.PM		0.94	0.0475	28	0.94	0.0475
145.001						145.001.PM		10.3	unspecified	29	10.3	unspecified
146.30						146.30.PM		2.969	0.1116	30	2.969	0.1116
146.6						146.6.PM		6.072	unspecified	31	6.072	unspecified
147.3						147.3.PM		7.45	unspecified	32	7.45	unspecified
147.55						147.55.PM	different dates w/in same year	7.94	0.4311	33	7.94	0.4311
147.55						147.55.PM	different dates w/in same year	4.15	0.2264	34	4.15	0.2264
148.003						148.003.PM		11.2	0.8161	35	11.2	0.8161
148.009			Yes	Failed isokinetics <90%		148.009.PM	different years	3.01	unspecified	36	3.01	unspecified
150.CAU-12						150.CAU-12.PM		5.4	unspecified	37	5.4	unspecified
154.P30 - Lime Kiln						154.P30 - Lime Kiln.PM		0.05	0.0039	38	0.05	0.0039
156.LK5			M	Isokinetics exceed 110% slightly; only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year			39		
156.LK5			M	Isokinetics exceed 110% slightly; only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year	0.6	0.050847458	40	0.6	0.050847458
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year			41		
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year	0.25	0.022644928	42	0.25	0.022644928
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year			43		
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year	0.99	0.107608696	44	0.99	0.107608696
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year			45		
156.LK5			M	only 2 runs		156.LK5.PM	separate stacks and different dates w/in same year	0.46	0.058227848	46	0.46	0.058227848

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
156.145000						156.145000.PM	different dates w/in same year	2.94	0.3920	47	2.94	0.3920
156.145000						156.145000.PM	different dates w/in same year	1.9	0.2533	48	1.9	0.2533
156.145000						156.145000.PM	different dates w/in same year	1.7	0.2146	49	1.7	0.2146
156.145000						156.145000.PM	different dates w/in same year	1.98	0.2377	50	1.98	0.2377
156.143100						156.143100.PM	different dates w/in same year	1.85	0.3551	51	1.85	0.3551
156.143100						156.143100.PM	different dates w/in same year	2.29	0.3137	52	2.29	0.3137
156.143100						156.143100.PM	different dates w/in same year	2.56	0.4324	53	2.56	0.4324
159.F4						159.F4.PM		3.952	unspecified	54	3.952	unspecified
162.372A						162.372A.PM	different years	3	0.2063	55	3	0.2063
162.371A						162.371A.PM		14	1.4538	56	14	1.4538
163.LK1501						163.LK1501.PM		10.7	0.7555	57	10.7	0.7555
163.LK2502						163.LK2502.PM		13.9	0.9553	58	13.9	0.9553
164.P12						164.P12.PM		9.02	1.8675	59	9.02	1.8675
166.LK01		emission factor seems too high				166.LK01.PM		32	2.9058	60	32	2.9058
166.LK02						166.LK02.PM		8.7	0.7043	61	8.7	0.7043
172.LK03						172.LK03.PM	Separate conditions: oil	7.6	0.6450	62	7.6	0.6450
172.LK03						172.LK03.PM	Separate conditions: gas	9.9	0.8584	63	9.9	0.8584
174.G-18						174.G-18.PM		2.5	0.0804	64	2.5	0.0804
175.LK2A						175.LK2A.PM	Separate conditions: No. 2 Lime Kiln - Shutdown	8.3	0.5061	65	8.3	0.5061
175.LK2A						175.LK2A.PM	Separate conditions: No. 2 Lime Kiln - Startup	2.6	0.1818	66	2.6	0.1818
175.LK1A	Yes	Tested during shutdown			Tested during shutdown. %CO2 stadily declining during shutdown; based on 2 runs (3rd was negative); %O2 steadily increased across 3 runs.	175.LK1A.PM	Separate conditions: No. 1 Lime Kiln - Shutdown	0.99	0.3394	67	0.99	0.3394
175.LK1A						175.LK1A.PM	Separate conditions: No. 1 Lime Kiln - Startup	1.9	0.4629	68	1.9	0.4629
175.LK1A						175.LK1A.PM	different dates w/in same year (No. 1 Lime Kiln)	1.6	0.1738	69	1.6	0.1738
178.09P037						178.09P037.PM	Separate conditions: gas	1.9	0.1348	70	1.9	0.1348
178.09P037						178.09P037.PM	Separate conditions: oil	2	0.1418	71	2	0.1418
179.LK3						179.LK3.PM	different years	4.1	0.1933	72	4.1	0.1933
180.L001						180.L001.PM		8.9	1.7713	73	8.9	1.7713
180.L002						180.L002.PM		7.7	1.5321	74	7.7	1.5321
184.LK2		Run Number 2 was invalid due to plan operational problems	M			184.LK2.PM	Separate conditions: No. 2 Lime Kiln - Condition I (gas)	1.033333333	0.0953	75	1.033333333	0.0953
184.LK2			Yes	Each Run Concentration varied by two to three times		184.LK2.PM	Separate conditions: No. 2 Lime Kiln - Condition II (pet coke and gas)	0.52	0.0475	76	0.52	0.0475
184.LK1						184.LK1.PM	CaO Production	5.81	0.4572	77	5.81	0.4572
184.LK1						184.LK1.PM	Separate conditions: No. 1 Lime Kiln - Low CaO Production	4.55	0.5629	78	4.55	0.5629
185.07			M	Isokinetics unspecified		185.07.PM	different dates w/in same year	2.20332	unspecified	79	2.20332	unspecified

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
185.07			M	Isokinetics unspecified		185.07.PM	different dates w/in same year	2.239812	unspecified	80	2.239812	unspecified
185.07			M	Isokinetics unspecified		185.07.PM	different dates w/in same year	1.27521	unspecified	81	1.27521	unspecified
185.07			M	Isokinetics unspecified		185.07.PM	different dates w/in same year	2.060415	unspecified	82	2.060415	unspecified
186.LK						186.LK.PM		5.56	0.2648	83	5.56	0.2648
189.SN25						189.SN25.PM	different dates w/in same year	23.7	unspecified	84	23.7	unspecified
189.SN25						189.SN25.PM	different dates w/in same year	5.67	unspecified	85	5.67	unspecified
196.SN-02						196.SN-02.PM	different years	1.56	0.1006	86	1.56	0.1006
197.1						197.1.PM		3.68	0.0548	87	3.68	0.0548
198.004						198.004.PM		14.82	1.0713	88	14.82	1.0713
199.011						199.011.PM		2.9	0.2179	89	2.9	0.2179
200.007_10						200.007_10.PM		0.67	unspecified	90	0.67	unspecified
201.SR0003						201.SR0003.PM		14.47	1.0202	91	14.47	1.0202
202.Lime Kiln EU340						202.Lime Kiln EU340.PM		5.56	0.7372	92	5.56	0.7372
203.LKScr						203.LKScr.PM	different dates w/in same year	6.94	unspecified	93	6.94	unspecified
203.LKScr						203.LKScr.PM	different dates w/in same year	5.97	unspecified	94	5.97	unspecified
203.LKScr						203.LKScr.PM	different dates w/in same year	6.947	unspecified	95	6.947	unspecified
203.LKScr						203.LKScr.PM	different dates w/in same year	6	unspecified	96	6	unspecified
206.G-38						206.G-38.PM		8.571	unspecified	97	8.571	unspecified
207.103A						207.103A.PM	Separate conditions: Lime Kiln - Normal Condition	3.27	1.1354	98	3.27	1.1354
207.103A						207.103A.PM	Separate conditions: Lime Kiln -Condition I (scrubber p-drop =18 in H2O, recirc = 400 gpm)	3.43	1.1910	99	3.43	1.1910
207.103A						207.103A.PM	Separate conditions: Lime Kiln - Condition II (scrubber p-drop =20 in H2O, recirc = 300 gpm)	4.15	1.4410	100	4.15	1.4410
207.103A						207.103A.PM	Separate conditions: Lime Kiln - Condition III (scrubber p-drop =18 in H2O, recirc = 295 gpm)	4.96	1.7222	101	4.96	1.7222
226.LK1						226.LK1.PM		13.69	unspecified	102	13.69	unspecified
226.LK2						226.LK2.PM		2.42	unspecified	103	2.42	unspecified
240.CA81						240.CA81.PM	different years	0.8	0.0290	104	0.8	0.0290
242.AA-013						242.AA-013.PM		2.312	0.1284	105	2.312	0.1284
243.LG07						243.LG07.PM	Separate conditions: No. 5 Lime Kiln - Condition I (SCBR/ESP)	1.75	unspecified	106	1.75	unspecified
243.LG07						243.LG07.PM	Separate conditions: No. 5 Lime Kiln - Condition II (SCBR only)	12.88	unspecified	107	12.88	unspecified
531.LK7						531.LK7.PM		0.96	0.0369	108	0.96	0.0369
600.G0908						600.G0908.PM		3.1	0.2600	109	3.1	0.2600
600.G0905						600.G0905.PM	different years	9.2	0.7610	110	9.2	0.7610
600.G0903						600.G0903.PM		13.68	1.7181	111	13.68	1.7181
600.G0905						600.G0905.PM	different years	13.3	1.1010	112	13.3	1.1010
606.LK4						606.LK4.PM		20	0.7380	113	20	0.7380
615.21						615.21.PM	Separate methods: Lime Kiln - Front Half	3.88	0.3887	114	3.88	0.3887
615.21						615.21.PM	Separate methods: Lime Kiln - ODEQ 5	4.31	0.4317	115	4.31	0.4317
169.03	yes	PM for run 3 approximately 4x runs 1 and 2--testers believe due to contamination of probe. If omit run 3, then avg concentration from runs 1-2 is 0.045 gr/dscf at 8% O2.			Desired production units unavailable for emission factor development.	169.03.PM		23.34		116	23.34	
617.P22						617.P22.PM		0.5484	0.0866	117	0.5484	0.0866
126.LK						126.LK.PM		0.923333333	0.1094	118	0.923333333	0.1094
132.21LK4						132.21LK4.PM	different years	0.477	0.0189	119	0.477	0.0189
132.21LK4						132.21LK4.PM	different years	0.727	0.0327	120	0.727	0.0327
132.21LK4						132.21LK4.PM	different years	1.447	0.0622	121	1.447	0.0622
132.21LK4						132.21LK4.PM	different years	1.448	0.0603	122	1.448	0.0603
132.21LK4					Report only has list of all sources' averages.	132.21LK4.PM	different years	4.786	0.1919	123	4.786	0.1919
132.21LK4					Report only has list of all sources' averages.	132.21LK4.PM	different years	0.898		124	0.898	
132.21LK4						132.21LK4.PM	different years	3.889	0.0562	125	3.889	0.0562

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
132.21LK4	Production. Report included only summary sheets,	Order Magnitude			Summary sheets only (not full report)	132.21LK4.PM	different years	10.13	0.4509	126	10.13	0.4509
132.21LK4						132.21LK4.PM	different years	4.62	0.1886	127	4.62	0.1886
136.EU 033						136.EU 033.PM	different years	5.01	0.3287	128	5.01	0.3287
136.EU 033						136.EU 033.PM	different years	10.62333333	0.5858	129	10.62333333	0.5858
136.EU 033						136.EU 033.PM	different years	6.93	0.3822	130	6.93	0.3822
136.EU 033						136.EU 033.PM	different years	6.3	0.3619	131	6.3	0.3619
136.EU 033						136.EU 033.PM	different years	8.625	0.5010	132	8.625	0.5010
137.511						137.511.PM	different years	0.21	0.0246	133	0.21	0.0246
137.511						137.511.PM	different years	0.093	0.0118	134	0.093	0.0118
137.512					Combination of 2 run type: 16 point traverse and 24 point traverse. Values are their mathematical average.	137.512.PM	Separate conditions (tested ESP only); different dates w/in same year	0.25	0.0287	135	0.25	0.0287
137.512					Control Equipment: Environmental Elements ESP and Amarex SO2 scrubber. The scrubber was not used during testing because NCGs were not routed to the kiln.	137.512.PM	Separate conditions (tested ESP only); different dates w/in same year	0.28	0.0322	136	0.28	0.0322
137.512						137.512.PM	Separate conditions (tested ESP only); different years	0.099	0.0125	137	0.099	0.0125
137.511						137.511.PM	different years	0.42	0.0467	138	0.42	0.0467
137.512					Control Equipment: Environmental Elements ESP and Amarex SO2 scrubber.	137.512.PM	Separate conditions: Tested with ESP/SCBR	0.133	0.0142	139	0.133	0.0142
137.512					Control Equipment: Environmental Elements ESP; no indication SO2 scrubber in use. Inlet and outlet were not tested at the exact same time.	137.512.PM	Separate conditions: Tested ESP only (inlet and outlet)	0.191	0.0205	140	0.191	0.0205
146.30					Operational data was reserved/unspecified	146.30.PM		1.458		141	1.458	
154.P30 - Lime Kiln					Measurements at > 90% capacity with scrubber shut down. Desired production units unavailable for emission factor development.	154.P30 - Lime Kiln.PM	Separate condition: only ESP tested. different years	0.863333333		142	0.863333333	
154.P30 - Lime Kiln					Some indication of "scrubber data" but report does not mention ESP.	154.P30 - Lime Kiln.PM	different years	0.321	0.0247	143	0.321	0.0247
154.P30 - Lime Kiln						154.P30 - Lime Kiln.PM	different years	0.18	0.0154	144	0.18	0.0154
154.P30 - Lime Kiln						154.P30 - Lime Kiln.PM	different years	0.059	0.0046	145	0.059	0.0046
186.LK					Not sure of production units for what is listed as Caus.Kiln TPD - may be TPD CaO or may be lime mud or other? Given magnitude, assumed tons CaO/hr	186.LK.PM	different years	4.67	0.2144	146	4.67	0.2144
186.LK						186.LK.PM	different years	10.8	0.6201	147	10.8	0.6201
186.LK						186.LK.PM	different years	21	1.0608	148	21	1.0608
186.LK					Production data were not in correct units for emission factor development.	186.LK.PM	different years	5.32		149	5.32	
243.LG07					Production data were not in correct units for emission factor development.	243.LG07.PM	different years	3.2		150	3.2	
243.LG07					Production data were not in correct units for emission factor development.	243.LG07.PM	different years	1.23		151	1.23	
105.EU455	M	ODEQ M5 test			No. 3 Lime Kiln operating and No. 2 Lime Kiln down during tests. Both kilns vent through same ESP.	105.EU455.PM		0.98	0.0482	152	0.98	0.0482
121.000011						121.000011.PM	different years	2.2	0.2146	153	2.2	0.2146
121.000011					Production units not ton CaO	121.000011.PM	different years	4.5		154	4.5	
102.LK	Yes	Run 3 was reported as 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Run 3 was reported as 0 emissions.	102.LK .PM		0.069	0.0058	155	0.069	0.0058
102.LK	Yes	Runs 2 and 3 were reported a 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Runs 2 and 3 were reported a 0 emissions.	102.LK .PM		0.046	0.0039	156	0.046	0.0039

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			157		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.203	0.015496183	158	0.203	0.015496183
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			159		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.339	0.023363198	160	0.339	0.023363198
102.LK	Yes	Runs 1 and 2 were reported as 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Runs 1 and 2 were reported as 0 emissions.	102.LK .PM		0.014	0.0011	161	0.014	0.0011
102.LK			Yes	Excluded other stack because of 0 emissions	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM		0.105	0.0080	162	0.105	0.0080
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			163		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.691	0.065250236	164	0.691	0.065250236
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			165		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.29	0.020567376	166	0.29	0.020567376
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			167		

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.136	0.009127517	168	0.136	0.009127517
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			169		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.29	0.020237264	170	0.29	0.020237264
102.LK	Yes	Run 1 was reported as 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Run 1 was reported as 0 emissions.	102.LK .PM		0.013	0.0010	171	0.013	0.0010
102.LK			Yes	Excluded other stack because of 0 emissions	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM		0.07	0.0053	172	0.07	0.0053
102.LK	Yes	Runs 2 and 3 were reported as 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Runs 2 and 3 were reported as 0 emissions.	102.LK .PM		0.011	0.0008	173	0.011	0.0008
102.LK			Yes	Excluded other stack because of 0 emissions	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM		0.122	0.0087	174	0.122	0.0087
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)			175		
102.LK					Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM	Separate stacks (see note)	0.265	0.019133574	176	0.265	0.019133574
102.LK	Yes	Runs 1 and 3 were reported as 0 emissions. Final weight of filter was less than tare weight so emissions reported as 0 for these runs.	Yes	See CauseSuspect. Zero-runs lowered overall emissions.	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same). Runs 1 and 3 were reported as 0 emissions.	102.LK .PM		0.018	0.0013	177	0.018	0.0013
102.LK			Yes	Excluded other stack because of 0 emissions	Separate stacks. This lime kiln has a 2-chamber ESP with each chamber exhausting to its own stack. A portion of the ESP exhaust gas is withdrawn from each stack for use by SMI (a PCC plant). This lowers the stack gas flow and reduces pollutant mass emissions (though concentration remains the same).	102.LK .PM		0.119	0.0085	178	0.119	0.0085

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
105.EU455	M	ODEQ M5 test			The lime kiln ESP is used for 2 lime kilns (no. 2 and 3). The no. 2 lime kiln was down during this test. EF not provided; chose not to use calculated production rate for EF development.	105.EU455.PM	different dates within same year	4.23	unspecified	179	4.23	unspecified
105.EU455	M	ODEQ M5 test			The lime kiln ESP is used for 2 lime kilns (no. 2 and 3). The no. 2 lime kiln was down during this test. EF not provided; chose not to use calculated production rate for EF development.	105.EU455.PM	different dates within same year	0.26	unspecified	180	0.26	unspecified
105.EU455	M	ODEQ M5 test			The lime kiln ESP is used for 2 lime kilns (no. 2 and 3). The no. 2 lime kiln was down during this test. EF not provided; chose not to use calculated production rate for EF development.	105.EU455.PM	different dates within same year	0.37	unspecified	181	0.37	unspecified
105.EU455	M	ODEQ M5 test			The lime kiln ESP is used for 2 lime kilns (no. 2 and 3). The no. 2 lime kiln was down during this test. EF not provided; chose not to use calculated production rate for EF development.	105.EU455.PM	different dates within same year	0.45	unspecified	182	0.45	unspecified
107.11-P14						107.11-P14.PM	different years	0.367	0.0232	183	0.367	0.0232
107.11-P14						107.11-P14.PM	different years	0.619	0.0409	184	0.619	0.0409
109.LK1						109.LK1.PM	different years	1.1	0.0820	185	1.1	0.0820
109.LK1						109.LK1.PM	different years	1.54	0.1173	186	1.54	0.1173
114.U800						114.U800.PM	Separate conditions: No. 6 fuel oil	0.97	0.0598	187	0.97	0.0598
114.U800						114.U800.PM	Separate conditions: Natural Gas	1.02	0.0629	188	1.02	0.0629
127.LK1						127.LK1.PM	different years	1.743	0.2583	189	1.743	0.2583
127.LK1						127.LK1.PM	different years	1.919	0.3278	190	1.919	0.3278
127.LK1					Consistent with other tested production rates for this kiln, production values were taken to be daily rates not hourly rates as noted in the report. Recalculated emission factor.	127.LK1.PM	different years	1.795	0.2502	191	1.795	0.2502
127.LK2						127.LK2.PM	different years	0.834	0.1230	192	0.834	0.1230
127.LK2						127.LK2.PM	different years	1.982	0.3318	193	1.982	0.3318
127.LK2					Consistent with other tested production rates for this kiln, production values were taken to be daily rates not hourly rates as noted in the report. Recalculated emission factor.	127.LK2.PM	different years	2.542	0.3783	194	2.542	0.3783
148.009						148.009.PM	different years	1.28	unspecified	195	1.28	unspecified
148.009						148.009.PM	different years	1.5	unspecified	196	1.5	unspecified
148.009					The No. 2 Lime Kiln test had one sampling run (Run 1) were the sampling rate was found to be 13% above the ideal isokinetic sampling rate.	148.009.PM	different years	1.25	unspecified	197	1.25	unspecified
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks			198		
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks	0.03	0.004114286	199	0.03	0.004114286
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks			200		
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks	0.12	0.023225806	201	0.12	0.023225806
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks			202		
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack.			Separate stacks (North and South)	156.LK5.PM	Separate stacks	3.54	0.326769231	203	3.54	0.326769231
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks			204		
156.LK5		Test reports are 2 runs for the north stack and 2 runs for the south stack			Separate stacks (North and South)	156.LK5.PM	Separate stacks	0.18	0.018	205	0.18	0.018
162.372A					Lime production was 101% of the maximum sustained rating of 337 tons CaO per Day.	162.372A.PM	different years	0.59	0.0416	206	0.59	0.0416
178.09P037					Separate conditions (normal load). The Lime Kiln normal condition results were below the MACT II limit but exceeded the source lb/hr limit. Re-test data were used for MACT II compliance purposes	178.09P037.PM	Separate conditions: 18.6 ton CaO/hr	18.88	1.0136	207	18.88	1.0136
178.09P037					Separate conditions (low load)	178.09P037.PM	Separate conditions: 2.9 ton CaO/hr	1.45	0.4870	208	1.45	0.4870
178.09P037					Retest (normal load)	178.09P037.PM		5.8	0.3222	209	5.8	0.3222

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
179.LK3						179.LK3.PM	different years	2.64	0.1734	210	2.64	0.1734
196.SN-02						196.SN-02.PM	different years	0.8	0.0639	211	0.8	0.0639
200.007_10						200.007_10.PM	different years	2.1	0.1291	212	2.1	0.1291
200.007_10						200.007_10.PM	different years	1.7	0.1000	213	1.7	0.1000
200.007_10						200.007_10.PM	different years	1.82	0.1182	214	1.82	0.1182
240.CA81		Only 2 run reported			Only 2 run reported	240.CA81.PM	different years	7.912	unspecified	215	7.912	unspecified
606.LK4						606.LK4.PM	different years	9.31	0.3448	216	9.31	0.3448
606.LK4						606.LK4.PM	different years	5.2	0.1907	217	5.2	0.1907
606.LK4					Condition 1 - Three fields, normal power levels	606.LK4.PM	Separate conditions; different years	5.42	0.2001	218	5.42	0.2001
606.LK4					Condition 2 - Three fields, reduced power levels	606.LK4.PM	Separate conditions; different years	5.14	0.1898	219	5.14	0.1898
606.LK4					Condition 3 - Two fields on - One field off - normal power levels	606.LK4.PM	Separate conditions; different years	4.37	unspecified	220	4.37	unspecified
617.P22						617.P22.PM	different years	0.533	0.0882	221	0.533	0.0882
617.P22						617.P22.PM	different years	0.513	unspecified	222	0.513	unspecified
617.P22						617.P22.PM	different years	0.375	0.0599	223	0.375	0.0599
208228535.009					Fuel used was handwritten as CTO. Mud flow was also handwritten in report.	208228535.009.PM	different years	1.4	unspecified	224	1.4	unspecified
208228535.009					Mud flow was handwritten in operational data section.	208228535.009.PM	different years	4	unspecified	225	4	unspecified
116.001						116.001.PM		13.36	1.2846	226	13.36	1.2846
117.P36						117.P36.PM		2.75	0.8765	227	2.75	0.8765
119.EQT006					No production data to calculate EF	119.EQT006.PM		110.8	unspecified	228	110.8	unspecified
133.14	Only 2-pg summary provided from this in-house test; data base indicated M5 was "modified per AOP"		Yes	ICR response indicates this was a single 1-hr test.	No production data to calculate EF. ICR response indicates this was a single 1-hr test.	133.14.PM		5.634166667	unspecified	229	5.634166667	unspecified
133.14	Only 2-pg summary provided from this in-house test; data base indicated M5 was "modified per AOP"		Yes	ICR response indicates this was a single 1-hr test.	No production data to calculate EF. ICR response indicates this was a single 1-hr test.	133.14.PM		4.289166667	unspecified	230	4.289166667	unspecified
135.004-1					Condition 1: Scrubber P-drop = 25.1 in H2O	135.004-1.PM	Separate conditions	11.6	0.9128	231	11.6	0.9128
135.004-1					Condition 2: Scrubber P-drop = 22.0 in H2O	135.004-1.PM	Separate conditions	12.2	0.9065	232	12.2	0.9065
138.001	Yes					138.001.PM		2.65	0.3638	233	2.65	0.3638
140.32	M	ODEQ M5 test				140.32.PM	different years	4	0.5479	234	4	0.5479
140.32						140.32.PM	different years	3.6	0.4286	235	3.6	0.4286
142.P6009						142.P6009.PM		11.64	1.5792	236	11.64	1.5792
142.P6025						142.P6025.PM		6.03	0.9812	237	6.03	0.9812
149.P001					No production data to calculate EF.	149.P001.PM		5	unspecified	238	5	unspecified
152.08					mod. M5 (Texas ACB Procedure - cyclonic flow)	152.08.PM		10.2	0.6695	239	10.2	0.6695
155.LIME KILN						155.LIME KILN.PM		10.78	1.0267	240	10.78	1.0267
165.000019						165.000019.PM		6.8	0.8831	241	6.8	0.8831
165.000002						165.000002.PM		7.7	0.5066	242	7.7	0.5066
167.004LK					PM bubble mill	167.004LK.PM		32.21	2.8254	243	32.21	2.8254

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
173.LK1					Found actual flow rate, pressure, and more precise dry standard flow rate in data summary table further down in report.	173.LK1.PM		6.21	0.7306	244	6.21	0.7306
174.G-95						174.G-95.PM		13.3	0.9283	245	13.3	0.9283
176.G-5						176.G-5.PM		13.4108	1.4673	246	13.4108	1.4673
177.EU0905						177.EU0905.PM		8.339	0.2969	247	8.339	0.2969
181.14					Without NCGs	181.14.PM	Separate conditions: Without NCGs	3	0.2586	248	3	0.2586
181.14					With NCGs	181.14.PM	Separate conditions: With NCGs	8	0.7207	249	8	0.7207
181.1						181.1.PM		4.4	0.3607	250	4.4	0.3607
190.L601					Found lime production rate in test results table in appendix.	190.L601.PM		4.38	unspecified	251	4.38	unspecified
190.L600						190.L600.PM		11.2	0.4014	252	11.2	0.4014
195.002	yes	1-page summary only (appendices were not available for PM)			ME DEP summary shows that PM and NOx test were conducted on same date and had same flow rate, which indicates that both tests were conducted at same time, with same parameters. We may want to ask mill for appendices to PM test (mill appears to have attached link to PM test appendices, but not actual appendices themselves).	195.002.PM		4.4	0.2312	253	4.4	0.2312
196.SN-09						196.SN-09.PM		16.6	1.3251	254	16.6	1.3251
205.008					No lime production data to calculate EF, but have lime mud input and pulp production data.	205.008.PM		5	unspecified	255	5	unspecified
340.008					PM bubble mill	340.008.PM		24.62	0.4875	256	24.62	0.4875
525.EU17						525.EU17.PM		9.2	0.2272	257	9.2	0.2272
610.7					Separate conditions: production = 14 TPH; No. 6 Oil runs 1 & 2, Waste Oil run 3.	610.7.PM	Separate conditons	12.82	0.9157	258	12.82	0.9157
610.7					Separate conditions: production = 16 TPH; Waste Oil all 3 runs.	610.7.PM	Separate conditons	16.03	1.0019	259	16.03	1.0019
610.7					Separate conditions: production = 17 TPH; Waste Oil all 3 runs.	610.7.PM	Separate conditons	15.29	0.8994	260	15.29	0.8994
610.7					Separate conditions: production = 16 TPH. Waste Oil all 3 runs. According to ICR response, waste oil is primary fuel, so 0.13 gr/dscf LK standard would apply under current NSPS. PM bubble mill.	610.7.PM	Separate conditons	13.78	0.8613	261	13.78	0.8613
610.7					Separate conditions: production = 14 TPH. Waste Oil all 3 runs.	610.7.PM	Separate conditons	13.16	0.9400	262	13.16	0.9400
610.8					Separate conditions: production = 14 TPH; Waste Oil all 3 runs.	610.8.PM	Separate conditons	8.44	0.6029	263	8.44	0.6029
610.8					Separate conditions: production = 16 TPH; Waste Oil run 1, No. 6 Oil runs 2 & 3.	610.8.PM	Separate conditons	8.73	0.5456	264	8.73	0.5456
610.8					Separate conditions: production = 17 TPH; Waste Oil all 3 runs.	610.8.PM	Separate conditons	9.73	0.5724	265	9.73	0.5724
613.009					Separate conditions: natural gas only, without petcoke. No production data to calculate EF.	613.009.PM	Separate conditons	10.7	unspecified	266	10.7	unspecified
613.009					Separate conditions: natural gas co-fired with petcoke. No production data to calculate EF.	613.009.PM	Separate conditons	12.48	unspecified	267	12.48	unspecified
130.4						130.4.PM		3.77	0.6253	268	3.77	0.6253
130.5						130.5.PM		3.37	0.5859	269	3.37	0.5859
131.16						131.16.PM	Tested on 2 different days; report did not specify why (unclear of separate conditions)	16.8	unspecified	270	16.8	unspecified
131.16						131.16.PM	Tested on 2 different days; report did not specify why (unclear of separate conditions)	13.1	unspecified	271	13.1	unspecified
157.KILN						157.KILN.PM		4.4	1.1852	272	4.4	1.1852
188.001LK1, 002LK2, 003LK3					All three lime kilns' data were combined into one report. Separate values for each kiln were not provided.	188.001LK1, 002LK2, 003LK3.PM	3 kilns combined	16.06	1.3280	273	16.06	1.3280
206.G-37						206.G-37.PM		6.52	unspecified	274	6.52	unspecified
171.009						171.009.PM	different dates	10.44	1.3588	275	10.44	1.3588
171.010						171.010.PM		15.42	2.1208	276	15.42	2.1208
171.009						171.009.PM	different dates	4.3	0.5488	277	4.3	0.5488

Appendix C

Particulate Matter Emissions Data for Smelt Dissolving Tanks

Appendix C: Pulp and Paper Emissions Test Data Spreadsheet for NSPS Review - SDT Filterable Particulate Matter

General Information

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2010_PM_Lime_Kiln,_No_4_Rec_and_No_4_Smelt.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 456-110, CD445-480, and CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
SECTION 2.pdf	107	NEI47074	09-P2	107.09-P2	107--09-P2	SCBR		Kraft	SDT (Kraft)
NEI32869 PR 2008016 OCT 2008.pdf	109	NEI32869A	SDT3	109.SDT3	109--ST3SBR	SCBR		Kraft	SDT (Kraft)
NEI32869 PR 2008016 OCT 2008.pdf	109	NEI32869A	SDT4	109.SDT4	109--ST4SBR	SCBR		Kraft	SDT (Kraft)
Project #2006009 - June, 2006.pdf	109	NEI32869A	SDT3	109.SDT3	109--RB3ESP, ST3SBR	SCBR		Kraft	SDT (Kraft)
NEI45206_P&P Survey_2-2011 Recovery Furnace & Smelt Dissolvi.pdf	111	NEI45206	G-127	111.G-127	111--STWS and ES 455-001	SCBR	NA	Kraft	SDT (Kraft)
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	ST01	166.ST01	166--ST1 Scrubber	SCBR		Kraft	SDT (Kraft)
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	ST02	166.ST02	166--ST2 Scrubber	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood Mill_.pdf	174	NEI40247	G-63B	174.G-63B	174--G-18 ESP/G-18 SCRUB, G-63B SCRUB, G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
Riegelwood Mill_.pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood Mill_.pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-63B	174.G-63B	174--G-18 ESP/G-18 SCRUB, G-32 ESP, G-92 ESP, G-63B SCRUB, G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1).pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
SDTV No. 1 2010 Update	124	NEI8278	020	124.020	124--sdtsbr020	SCBR		Kraft	SDT (Kraft)
0910-29 SDTV No. 2	124	NEI8278	021	124.021	124--sdtsbr021	SCBR		Kraft	SDT (Kraft)
RecoveryBoilerSmeltTank#2LimeKiln_EmmisionsTestReport_2005.pdf	340	NEI46852	007	340.007	340--SDTVS	SCBR		Kraft, Secondary	SDT (Kraft)
RecoveryBoilerSmeltTank#2LimeKiln_EmmisionsTestReport_2004	340	NEI46852	007	340.007	340--SDTVS	SCBR		Kraft, Secondary	SDT (Kraft)
NEI40686_RTI100_DomtarJohnsonburgMill_Smelt DissolvingTank Test_August2001.pdf	100	NEI40686	109	100.109	100--C109	SCBR		Kraft	SDT (Kraft)
112_TR2009_Weyerhaeuser Final Report.pdf	112	NEI34064	AA-101	112.AA-101	112--Scrubber	SCBR		Kraft	SDT (Kraft)
NEI26506_PM_December_2008.pdf	114	NEI26506	U508	114.U508	114--CDU5	SCBR		Kraft	SDT (Kraft)
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	SM01	115.SM01	115--SMO1 SCBR	SCBR	Good Combustion Practices	Kraft	SDT (Kraft)
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	SM01	115.SM01	115--SMO1 SCBR	SCBR	Good Combustion Practices	Kraft	SDT (Kraft)
NEI8619_July 2004 Stack Test Report.pdf	116	NEI8619	004	116.004	116--SDTSCR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI8619_IP Pine Hill Recovery Sept 2010 Stack Test Report.pdf	116	NEI8619	004	116.004	116--SDTSCR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
No 20 SDT Dec 2007.pdf	119	NEI46814	EQT005	119.EQT005	119--SCBR04	SCBR		Kraft, Secondary	SDT (Kraft)
No 21 SDT March 2007.pdf	119	NEI46814	EQT011	119.EQT011	119--SCBR11	SCBR		Kraft, Secondary	SDT (Kraft)
Lime Kilns, Smelt Tank and Recovery Furnace Emissions Test Report_NEI26495.pdf	120	NEI26495	M3	120.M3	120--STS5	SCBR		Kraft	SDT (Kraft)
NEI 42317 Hopewell VA Dec 2009 SDT PM and TRS.pdf	126	NEI42317	SDT	126.SDT	126--SDTScr	SCBR		Kraft	SDT (Kraft)
NEI7933_PIII - Smelt Dissolving Tank Vent - PM - February 15, 2005.pdf	127	NEI7933	SDT1	127.SDT1	127--E111A	SCBR		Kraft, Secondary	SDT (Kraft)
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	SDT4N	131.SDT4N	131--CR02CD	SCBR		Kraft, Secondary	SDT (Kraft)
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	SDT4S	131.SDT4S	131--CR03CD	SCBR		Kraft, Secondary	SDT (Kraft)
NEI 42254 RockTenn WP Stack Tests.pdf	131	NEI42254	SDT5	131.SDT5	131--CRO6CD	SCBR		Kraft, Secondary	SDT (Kraft)
2010 4 SDT.pdf	132	NEI8261	4SDT	132.4SDT	132--SCBR1	SCBR		Kraft, Secondary	SDT (Kraft)
2010 5 SDT.pdf	132	NEI8261	5SDT	132.5SDT	132--SCBR2	SCBR		Kraft, Secondary	SDT (Kraft)
2010 - SDT(PM-TRS) + RB10(PM-Hg).pdf	136	NEI12368	EU 031	136.EU 031	136--CE 017	SCBR		Kraft	SDT (Kraft)
2010-09-15 5SDT PM-TRS Test Report.pdf	137	NEI26581	204	137.204	137--PC(204)	SCBR		Kraft	SDT (Kraft)
TRS and PM Smelt Dissolving Tank SN-03 September 2010.pdf	138	NEI18652	003	138.003	138--SCRB SDT1, SCRB SDT2	PBSCBR		Kraft	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI1#QKT.PDF	142	NEI41552	P7413	142.P7413	142--CD7217	SCBR		Kraft, Secondary	SDT (Kraft) (2)
NEI759 TSP Testing 2008 part 1.pdf	146	NEI759	10	146.10	146--SDT101	SCBR		Kraft	SDT (Kraft)
NEI759 TSP Testing 2008 part 1.pdf	146	NEI759	10	146.10	146--SDT101	SCBR		Kraft	SDT (Kraft)
NEI759 TSP Testing 2008 part 1.pdf	146	NEI759	17	146.17	146--SDT201	SCBR		Kraft	SDT (Kraft)
MACTreports2004.pdf	147	NEI6450	161	147.161	147--C-635	SCBR	None	Kraft	SDT (Kraft)
MACTreports2004.pdf	147	NEI6450	244	147.244	147--C-623	SCBR	None	Kraft	SDT (Kraft)
NEI46931_7 20-21 10 No. 1 RF & SDT & No. 2 RF & SDT Compliance Test Report.pdf	148	NEI46931	002	148.002	148--SDT1SCB	SCBR		Kraft, Secondary	SDT (Kraft)
NEI46931_7 20-21 10 No. 1 RF & SDT & No. 2 RF & SDT Compliance Test Report.pdf	148	NEI46931	008	148.008	148--SDT2SCB	SCBR		Kraft, Secondary	SDT (Kraft)
NEI40488 B011, P001, P005 - 2009 Title V Compliance Test Rep.pdf	149	NEI40488	P005	149.P005	149--SC-502	SCBR		Kraft	SDT (Kraft)
150 NewPage Rumford TRC 2007 Report_CRec and Smelt Tank_PM.pdf	150	NEI6273	CREC-2b	150.CREC-2b	150--SCRBSTa	SCBR		Kraft, Mechanical	SDT (Kraft)
150 NewPage Rumford TRC 2007 Report_CRec and Smelt Tank_PM.pdf	150	NEI6273	CREC-2a	150.CREC-2a	150--SCRBSTb	SCBR		Kraft, Mechanical	SDT (Kraft)
NEI46739 SDT3 PM August 2006 Section 1.pdf	154	NEI46739	P38 - Smelt Dissolving Tank 3	154.P38 - Smelt Dissolving Tank 3	154--C12	PBSCBR		Kraft	SDT (Kraft)
NEI33883 - Smelt Dissolving Tank - March 3, 2011 - Compliance Test Report.pdf	155	NEI33883	SDT	155.SDT	155--SDT SCRUBBER	PBSCBR		Kraft, Mechanical	SDT (Kraft)
M52010SD18.pdf	156	NEI42338	SMEL18	156.SMEL18	156--ST18VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD18.pdf	156	NEI42338	SMEL18	156.SMEL18	156--ST18VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD19.pdf	156	NEI42338	SMEL19	156.SMEL19	156--ST19VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD19.pdf	156	NEI42338	SMEL19	156.SMEL19	156--ST19VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD19.pdf	156	NEI42338	SMEL19	156.SMEL19	156--ST19VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD19.pdf	156	NEI42338	SMEL19	156.SMEL19	156--ST19VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD19.pdf	156	NEI42338	SMEL19	156.SMEL19	156--ST19VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD22.pdf	156	NEI42338	SMEL22	156.SMEL22	156--ST22VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD22.pdf	156	NEI42338	SMEL22	156.SMEL22	156--ST22VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD22.pdf	156	NEI42338	SMEL22	156.SMEL22	156--ST22VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD22.pdf	156	NEI42338	SMEL22	156.SMEL22	156--ST22VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
M52010SD22.pdf	156	NEI42338	SMEL22	156.SMEL22	156--ST22VS	PBSCBR	Packed-Gas Absorption Column, Wet Scrubber	Unknown (Kraft & Semi-chem)	SDT (Kraft)
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 smelt dis tank particulate2.pdf	162	NEI46760	381C	162.381C	162--381CSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 2 smelt dis tank particulate2.pdf	162	NEI46760	382B	162.382B	162--382BSCRUB	SCBR		Kraft	SDT (Kraft)
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Recovery Furnace and Smelt Dissolving Tanks testing.pdf	163	NEI8560	SD1902	163.SD1902	163--SD1SC1	SCBR		Kraft, Secondary	SDT (Kraft)
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Recovery Furnace and Smelt Dissolving Tanks testing.pdf	163	NEI8560	SD1903	163.SD1903	163--SD1SC2	SCBR		Kraft, Secondary	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI163_International Paper - Prattville Mill_NEI8560_No 2 Recovery Furnace and Smelt Dissolving Tank testing.pdf	163	NEI8560	SD2906	163.SD2906	163--SD2SCR	SCBR		Kraft, Secondary	SDT (Kraft)
MACT II, June 14-17, 2004.pdf	164	NEI42710	P08	164.P08	164--C08 for A ESP	SCBR		Kraft	SDT (Kraft)
MACT II, June 14-17, 2004.pdf	164	NEI42710	P10	164.P10	164--C08 for A ESP	SCBR		Kraft	SDT (Kraft)
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000008	165.000008	165--401015	SCBR		Kraft	SDT (Kraft)
RTI165-InternationalPaper-TexarkanaMill_NEI41628_PPTestReport-2004SubpartMMIPT.pdf	165	NEI41628	000014	165.000014	165--SM01	SCBR		Kraft	SDT (Kraft)
RTI169-IP-MansfieldMill-NEI33013_2010_Emission_Test_Report-R.pdf	169	NEI33013	06	169.06	169--Wet Scrubber	PBSCBR		Kraft, SemiChem	SDT (Kraft)
RTI169-IP-MansfieldMill-NEI33013_2010_Emission_Test_Report-R.pdf	169	NEI33013	07	169.07	169--Wet Scrubber	PBSCBR		Kraft, SemiChem	SDT (Kraft)
RTI172_International Paper - Riverdale Mill_NEI18335_Oct2010 ST01 PM Testing.pdf	172	NEI18335	ST01	172.ST01	172--ST01 Scrubber	SCBR		Kraft, Secondary	SDT (Kraft)
P_P_ICR Part II_RTI175_InternationalPaper-AugustaMill_N (5).PDF	175	NEI26514	ST2A	175.ST2A	175--ST2B	SCBR		Kraft	SDT (Kraft)
RecBoiler_WasteBoiler_SmeltTank_LimeKiln_Compliancetest2011_Part1.pdf	177	NEI33887	EU0805	177.EU0805	177--CD0801	SCBR		Kraft	SDT (Kraft)
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_SDTTest2010.pdf	179	NEI45474	SDT	179.SDT	179--SDTSCR	SCBR		Kraft	SDT (Kraft)
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_RFSDTTest2009.pdf	179	NEI45474	SDT	179.SDT	179--SDTSCR	SCBR		Kraft	SDT (Kraft)
NEI26471_No3_Smelt_Tank_PM_TRS_2009-0317[2].pdf	180	NEI26471	D002, D907	180.D002, D907	180--D02S	SCBR		Kraft, Secondary	SDT (Kraft)
NEI6057 2006 #4 & #5 RB & SDT EMISSION TEST REPORT Pt 1 of 2.pdf	181	NEI6057	11	181.11	181--4SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2006 #4 & #5 RB & SDT EMISSION TEST REPORT Pt 1 of 2.pdf	181	NEI6057	11	181.11	181--4SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2005 #4 SDT EMISSION TEST REPORT.pdf	181	NEI6057	11	181.11	181--4SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2006 #4 & #5 RB & SDT EMISSION TEST REPORT Pt 1 of 2.pdf	181	NEI6057	51	181.51	181--5SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2006 #4 & #5 RB & SDT EMISSION TEST REPORT Pt 1 of 2.pdf	181	NEI6057	51	181.51	181--5SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2006 #4 & #5 RB & SDT EMISSION TEST REPORT Pt 1 of 2.pdf	181	NEI6057	51	181.51	181--5SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI6057 2005 #5 SDT EMISSION TEST REPORT.pdf	181	NEI6057	51	181.51	181--5SDT_SCBR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Sources 037, 110 Test Report April 2005.pdf	182	NEI7181	110	182.110	182--C10/SCR1	SCBR		Kraft	SDT (Kraft)
2009.02 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009.03 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009.08 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009.11 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009.01 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009.06 4SD PM.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2009 Annual PM.pdf	186	NEI18334	RB17	186.RB17	186--SMSCR	SCBR		Kraft	SDT (Kraft)
Smelt.pdf	186	NEI18334	RB17	186.RB17	186--SMSCR	SCBR		Kraft	SDT (Kraft)
GP Crossett Paper Smelt Dissolving Tank Compliance 2010.pdf	189	NEI54342	SN27	189.SN27	189--SN27S	SCBR		Kraft	SDT (Kraft)
GP Crossett Paper Smelt Dissolving Tank Compliance 2010.pdf	189	NEI54342	SN28	189.SN28	189--SN28S	SCBR		Kraft	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 SDTV1 PM 04-21-2010 Compliance Test.pdf	190	NEI26491	R404	190.R404	190--C404	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 SDTV2 & SDTV3 TRS 03-23-2010.pdf	190	NEI26491	R406	190.R406	190--C406	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
2010 Domtar Compliance Testing Part 1 of 6.pdf and 2010 Domtar Compliance Testing Part 2 of 6.pdf	196	NEI18660	SN-08North	196.SN-08North	196--SN-08	SCBR	Scrubber	Kraft	SDT (Kraft)
2010 Domtar Compliance Testing Part 1 of 6.pdf and 2010 Domtar Compliance Testing Part 2 of 6.pdf	196	NEI18660	SN-08South	196.SN-08South	196--SN-08	SCBR	Scrubber	Kraft	SDT (Kraft)
NEI41565 MACT II Test Report July 2004.pdf	198	NEI41565	020	198.020	198--020_CD	SCBR		Kraft, Mechanical, Secondary	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI47077 BOWATER CATAWBA AUG 09 COMP RPT.pdf	200	NEI47077	007_8, 007_9	200.007_8, 007_9	200--2511C	SCBR		Kraft, Mechanical	SDT (Kraft)
1106-104_Boise White Paper_SDT Report.pdf	202	NEI12411	Smelt Dissolving Tank EU322	202.Smelt Dissolving Tank EU322	202--CE322	SCBR	5 gph 50% caustic to reduce TRS; started recycling scrubber overflow in 2010 to SDT to reduce caustic and energy losses to sewer.	Kraft	SDT (Kraft)
2010 10 2SDTV PM.pdf	203	NEI42410	2DTScr	203.2DTScr	203--2DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)
2010 10 3SDTV PM.pdf	203	NEI42410	3DTScr	203.3DTScr	203--3DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)
NEI7104 - 2003 Smelt Tank.pdf	207	NEI7104	108	207.108	207--C08	PBSCBR		Kraft	SDT (Kraft)
NEI33023_SDT2_2004_PM.pdf	226	NEI33023	SDT1N	226.SDT1N	226--SDT2NS	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI33023_SDT2_2004_PM.pdf	226	NEI33023	SDT1S	226.SDT1S	226--SDT2SS	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI33023_SDT3_2004_PM.pdf	226	NEI33023	SDT2	226.SDT2	226--SDT3S	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Rayonier Jesup SDT5 PM &TRS test 05_25_10.pdf	240	NEI26526	RF02	240.RF02	240--RFC2	SCBR		Kraft	SDT (Kraft)
Rayonier Jesup SDT6 PM &TRS test 03_17_10.pdf	240	NEI26526	RF05	240.RF05	240--RFC4	SCBR		Kraft	SDT (Kraft)
Rayonier Jesup SDT6 PM &TRS test 03_17_10.pdf	240	NEI26526	RF06	240.RF06	240--RFC5	SCBR		Kraft	SDT (Kraft)
NEI 34066 Emission Test RB-LK- SDT 2010.pdf	242	NEI34066	AA-012	242.AA-012	242--UT-7	SCBR		Kraft	SDT (Kraft)
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R403	243.R403	243--RSS5	SCBR		Kraft	SDT (Kraft)
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R408	243.R408	243--RSS6	SCBR		Kraft	SDT (Kraft)
P_P_ICR Part III_RTI531_InternationalPaper-Savnnah Mill (4).pdf	531	NEI8186	RF10	531.RF10	531--AP15	SCBR		Kraft, Secondary	SDT (Kraft)
RTI600_InternationalPaper-CourtlandMill-NEI18357 NOV 10 1-3L.pdf	600	NEI18357	G0805	600.G0805	600--08-CD-02-004	SCBR		Kraft	SDT (kraft)
RTI600_InternationalPaper-CourtlandMill-NEI18357 JUN 10 3RF .pdf	600	NEI18357	G0807	600.G0807	600--08-CD-03-003	SCBR		Kraft	SDT (kraft)
ODEQ-Final-Report-SDT-TSP-TRS-10-20-09.pdf	615	NEI40554	25	615.25	615--SDTSC1	SCBR		Kraft	SDT (Kraft)
2011_0315-17.1.pdf	617	NEI42695	P21	617.P21	617--C08	PBSCBR		Kraft	SDT (Kraft)
NEI18373_002_Particulate_2010.pdf	208228535	NEI18373	002	208228535.002	208228535--X002	SCBR		Unknown (Kraft)	SDT (Kraft)
NEI18373_002_Particulate_2011.pdf	208228535	NEI18373	002	208228535.002	208228535--X002	SCBR		Unknown (Kraft)	SDT (Kraft)
NEI18373_008_Particulate_2010.pdf	208228535	NEI18373	008	208228535.008	208228535--X013	SCBR		Unknown (Kraft)	SDT (Kraft)
2007_PE_Lime_Kiln_ESP,_No_4_Rec_Boiler_ESP_and_Smelt_Dis_Tank.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
2008_PM_No_3_Rec_Furnace_and_No_3_Smelt_Dis_Tank_Vents.pdf	105	NEI45182	EU445BEast	105.EU445BEast	105--CD445-164	SCBR		Kraft, Secondary	SDT (Kraft)
2008_PM_No_3_Rec_Furnace_and_No_3_Smelt_Dis_Tank_Vents.pdf	105	NEI45182	EU445BWest	105.EU445BWest	105--CD445-162	SCBR		Kraft, Secondary	SDT (Kraft)
TempleInland-OrangeMill_NEI12492_PPTestReport-2002TestReport.pdf	121	NEI12492	000009	121.000009	121--C-REVB1, C-REVB2	SCBR		Kraft, Secondary	SDT (Kraft)
TempleInland-OrangeMill_NEI12492_PPTestReport-2002TestReport.pdf	121	NEI12492	000010	121.000010	121--C-REVB1, C-REVB2	SCBR		Kraft, Secondary	SDT (Kraft)
TempleInland-OrangeMill_NEI12492_PPTestReport-2004MACTIIReport.pdf	121	NEI12492	000009	121.000009	121--C-11	SCBR		Kraft, Secondary	SDT (Kraft)
TempleInland-OrangeMill_NEI12492_PPTestReport-2004MACTIIReport.pdf	121	NEI12492	000010	121.000010	121--C-13	SCBR		Kraft, Secondary	SDT (Kraft)
NEI42341A_PIII_D2a_2011-Q1 LK-RB10-SDTV10-HFB11.pdf	102	NEI42341A	SDTV10	102.SDTV10	102--SDTV-S	SCBR		Kraft	SDT (Kraft)
IP PENSACOLA 2011 RF-SDTV COMP REPORT.pdf	178	NEI26309	08T014	178.08T014	178--08C014	SCBR		Kraft	SDT (Kraft)
IP PENSACOLA 2011 RF-SDTV COMP REPORT.pdf	178	NEI26309	08T015	178.08T015	178--08C015	SCBR		Kraft	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 RB1 PM & SDTV1 PM, TRS 09-24-2009 Compliance Test.pdf	190	NEI26491	R404	190.R404	190--C400	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
2008_PM_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2008_PM_Lime_Kiln_Exh,_No_4_Rec_Boiler_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
2009_PM_No_3_Lime_Kiln,_No_4_Rec_Boiler_and_No_4_Smelt.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
2009_PM_No_3_Lime_Kiln_and_No_4_Smelt_Dis_Tank.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	08T015	178.08T015	178--08C015	SCBR		Kraft	SDT (Kraft)
IP PENSACOLA SEPT 04 PM COMP REPORT.pdf	178	NEI26309	08T014	178.08T014	178--08C014	SCBR		Kraft	SDT (Kraft)
2011 Stack Report-AIR.pdf	130	NEI18338	11	130.11	130--11SD3S	SCBR		Kraft	SDT (Kraft)
2011 Stack Report-AIR.pdf	130	NEI18338	6	130.6	130--6SD1S	SCBR		Kraft	SDT (Kraft)
2011 Stack Report-AIR.pdf	130	NEI18338	7	130.7	130--7SD2S	SCBR		Kraft	SDT (Kraft)
2011 RB & ST PM #103.pdf	135	NEI33118	007-1, 007-2	135.007-1, 007-2	135--007-4, 007-5	SCBR		Kraft	SDT (Kraft)
2010-08-31 4SD PM Eng Test Report.pdf	137	NEI26581	157	137.157	137--PC(157)	SCBR		Kraft	SDT (Kraft)
2010-09-16 4SDT PM Test Report.pdf	137	NEI26581	157	137.157	137--PC(157)	SCBR		Kraft	SDT (Kraft)
Mill code 139 part 4.pdf	139	NEI42357	03	139.03	139--SDTSCBR	SCBR		Kraft, Secondary	SDT (Kraft)
SDT EPA5 102010.pdf	140	NEI13340	57	140.57	140--461-213	PBSCBR		Kraft	SDT (Kraft)
SDT OM5 032011.pdf	140	NEI13340	57	140.57	140--461-212	PBSCBR		Kraft	SDT (Kraft)
SDT OM5 032011.pdf	140	NEI13340	57	140.57	140--461-212	PBSCBR		Kraft	SDT (Kraft)
RTI1#CGM.pdf	142	NEI41552	P7236	142.P7236	142--CD-7236	SCBR		Kraft, Secondary	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 SDT PM_November 2009.pdf	143	NEI26504	7005	143.7005	143--C012	SCBR		Kraft	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 SDT PM_November 2009.pdf	143	NEI26504	7015	143.7015	143--C014	SCBR		Kraft	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3 SDT PM_November 2009.pdf	143	NEI26504	7025	143.7025	143--C016	SCBR		Kraft	SDT (Kraft)
NEI11338_WPC - RF_SDT_LK - Mar 2007.pdf	152	NEI11338	04	152.04	152--04-SCBR	SCBR		Kraft	SDT (Kraft)
NEI46739 RB2, SDT1, SDT2 and SDT3 PM March 2004.pdf	154	NEI46739	P32 - Smelt Dissolving Tank 1	154.P32 - Smelt Dissolving Tank 1	154--C07	SCBR		Kraft	SDT (Kraft)
NEI46739 SDT1 and SDT2 PM May 2004.pdf	154	NEI46739	P32 - Smelt Dissolving Tank 1	154.P32 - Smelt Dissolving Tank 1	154--C07	SCBR		Kraft	SDT (Kraft)
NEI46739 RB2, SDT1, SDT2 and SDT3 PM March 2004.pdf	154	NEI46739	P35 - Smelt Dissolving Tank 2	154.P35 - Smelt Dissolving Tank 2	154--C09	SCBR		Kraft	SDT (Kraft)
NEI46739 SDT1 and SDT2 PM May 2004.pdf	154	NEI46739	P35 - Smelt Dissolving Tank 2	154.P35 - Smelt Dissolving Tank 2	154--C09	SCBR		Kraft	SDT (Kraft)
NEI33104-SDT 2005 PM Compliance.pdf	157	NEI33104	SDT	157.SDT	157--SDRMST	OTH		Kraft	SDT (Kraft)
RTI167 NEI34070 2011_IPVicksburg_StackTestReport_(PB,LK,RB,SDT,SS).pdf	167	NEI34070	007SDT	167.007SDT	167--SDSCBR	SCBR		Kraft, Secondary	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	006	171.006	171--MESDT2	OTH		Kraft	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	007	171.007	171--VSSDT3	SCBR		Kraft	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	008	171.008	171--VSSDT4	SCBR		Kraft	SDT (Kraft)
RTI173 NEI 35908 IPTiconderoga SDT test 2-01.pdf	173	NEI35908	SDT	173.SDT	173--SDSCBR	SCBR	NA	Kraft	SDT (Kraft)
RTI173 NEI 35908 IPTiconderoga Subpart MM Stack Test for RB-SDT-LK 10-04.pdf	173	NEI35908	SDT	173.SDT	173--SDSCBR	SCBR	NA	Kraft	SDT (Kraft)
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (5).pdf	175	NEI26514	ST3A	175.ST3A	175--ST3B	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT1	184.SDT1	184--7	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT1	184.SDT1	184--7	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT2a	184.SDT2a	184--8	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT2a	184.SDT2a	184--8	SCBR		Kraft	SDT (Kraft)
SmeltTank#2E ComplianceTest2004.pdf	184	NEI46817	SDT2a	184.SDT2a	184--8	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT2b	184.SDT2b	184--9	SCBR		Kraft	SDT (Kraft)
RecBoiler #1&#2_SmeltTank#1&#2-ComplianceTest2004_Part1.pdf	184	NEI46817	SDT2b	184.SDT2b	184--9	SCBR		Kraft	SDT (Kraft)
SmeltTank#2W ComplianceTest2004.pdf	184	NEI46817	SDT2b	184.SDT2b	184--9	SCBR		Kraft	SDT (Kraft)
2011.0606-0609.2Q.tests.pdf	188	NEI40600	015SD1	188.015SD1	188--62-056	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
2011.0606-0609.2Q.tests.pdf	188	NEI40600	017SD2	188.017SD2	188--62-256	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 SDTV2 PM 10-15-2009 Compliance Test.pdf	190	NEI26491	R405	190.R405	190--C405	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
2004 Method 5 Testing - part 1 of 3.pdf	196	NEI18660	SN-15	196.SN-15	196--SN-15	SCBR	Scrubber	Kraft	SDT (Kraft)
NEI18390_002_004_PM_2011.pdf	199	NEI18390	004	199.004	199--Z006	SCBR		Kraft	SDT (Kraft)
NEI7559Smelt-87-02 Comp2004 SubprtMM.pdf	201	NEI7559	SR0034	201.SR0034	201--SDTS	SCBR		Kraft, Mechanical, Secondary	SDT (Kraft)
NEI8601_Unit 010_2010.pdf	205	NEI8601	010	205.010	205--SDTS	SCBR		Kraft, Secondary	SDT (Kraft)
RTI206_BRPPSDTV10COMPPM012505.pdf	206	NEI40282	G-35	206.G-35	206--SDT10 DEM	OTH		Kraft	SDT (Kraft)
RTI206_BRPPSDTV10PM111705.pdf	206	NEI40282	G-35	206.G-35	206--SDT10 DEM	OTH		Kraft	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
RTI206_BRPPSDTV11COMPPM012605.pdf	206	NEI40282	G-36	206.G-36	206--SDT11 DEM	OTH		Kraft	SDT (Kraft)
RTI206_BRPPSDTV11PM102005.pdf	206	NEI40282	G-36	206.G-36	206--SDT11 DEM	OTH		Kraft	SDT (Kraft)
47091_006_2010A_PM.pdf	606	NEI47091	SDT2	606.SDT2	606--SCRB2	SCBR		Kraft	SDT (Kraft)
47091_006_2011_PM.pdf	606	NEI47091	SDT2	606.SDT2	606--SCRB2	SCBR		Kraft	SDT (Kraft)
47091_007_2005_PM_TRS.pdf	606	NEI47091	SDT3	606.SDT3	606--SCRB3	SCBR		Kraft	SDT (Kraft)
47091_007_2010_PM.pdf	606	NEI47091	SDT3	606.SDT3	606--SCRB3	SCBR		Kraft	SDT (Kraft)
47091_011_2006_PM_TRS.pdf	606	NEI47091	SDT4	606.SDT4	606--SCRB4	SCBR		Kraft	SDT (Kraft)
47091_011_2010_PM.pdf	606	NEI47091	SDT4	606.SDT4	606--SCRB4	SCBR		Kraft	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR	stacked air installed in recovery boiler No. 1 in 2007	Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR	stacked air installed in recovery boiler No. 1 in 2007	Kraft, Mechanical	SDT (Kraft)
2009 #1 SDTV.pdf	613	NEI11172	005	613.005	613--1LSCRB	SCBR		Kraft, Secondary	SDT (Kraft)
2009 #1 SDTV.pdf	613	NEI11172	006	613.006	613--1RSCRB	SCBR		Kraft, Secondary	SDT (Kraft)
2009 #2 SDTV.pdf	613	NEI11172	007	613.007	613--2LSCRB	SCBR		Kraft, Secondary	SDT (Kraft)
2009 #2 SDTV.pdf	613	NEI11172	008	613.008	613--2RSCRB	SCBR		Kraft, Secondary	SDT (Kraft)
No.2 SDT Part Testing.pdf	145	NEI33135	56	145.56	145--PR009-01C	OTH		Kraft	SDT (Kraft)
2009 4 SDT.pdf	132	NEI42357	4SDT	132.4SDT	132--SCBR1	SCBR		Kraft, Secondary	SDT (Kraft)

Green rows were not used in the NSPS review.

atter

	Configuration				General Test Report Information				Production Rate			Inlet/Outlet
RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
105.EU445D	no		PM	2010	#4 Smelt Dissolving Tank	unspecified	10/13/2010	M5	59.05	ton BLS/hr		Outlet
107.09-P2			PM	2011	Smelt Dissolving Tanks	unspecified	6/9/2011	M5	94.5	ton BLS/hr		Outlet
109.SDT3	No		PM	2008	Smelt Dissolving Tank # 3	unspecified	7/31/2008	M5	49.51	ton BLS/hr		Outlet
109.SDT4	No		PM	2008	No. 4 Smelt Dissolver	unspecified	8/13/2008	M5	83.92	ton BLS/hr		Outlet
109.SDT3	No		PM	2006	No. 3 Smelt Dissolver	unspecified	5/12/2006	M5	44.35725	ton BLS/hr	Report provided 88714.5 "tons BLS/hr" but it appears that this was really "lb BLS/hr". Used corrected production rate.	Outlet
111.G-127	No		PM	2011	South Smelt Tank	unspecified	1/29/2011	M5	45.3	ton BLS/hr		Outlet
166.ST01	No		PM	2009	No. 1 Smelt Dissolving Tank	unspecified	7/14/2009	M5	68.5	ton BLS/hr		Outlet
166.ST02	No		PM	2009	No. 2 Smelt Dissolving Tank	unspecified	7/17/2009	M5	82.5	ton BLS/hr		Outlet
174.G-63B			PM	2005	No. 4 SDT	unspecified	2/3/2005	M5	50.5	ton BLS/hr		Outlet
174.G-63C			PM	2005	No. 5 SDT - East Stack	unspecified	2/1/2005	M5	139	ton BLS/hr		Outlet
174.G-63C			PM	2005	No. 5 SDT - West Stack	unspecified	2/1/2005	M5	139	ton BLS/hr		Outlet
174.G-63B			PM	2004	No. 4 SDT	unspecified	10/27/2004	M5	45.5	ton BLS/hr		Outlet
174.G-63C			PM	2004	No. 5 SDT - East Stack	unspecified	10/22/2004	M5	139.7	ton BLS/hr		Outlet
174.G-63C			PM	2004	No. 5 SDT - West Stack	unspecified	10/22/2004	M5	139.7	ton BLS/hr		Outlet
124.020	No		PM	2010	No. 1 Smelt Dissolver	Fuel oil	11/3/2010	M5	58.3	ton BLS/hr		outlet
124.021	No		PM	2010	No. 2 Smelt Dissolver	Fuel oil	11/4/2010	M5	58.05	ton BLS/hr		outlet
340.007	No		PM	2005	Smelt Dissolving Tank	unspecified	6/21/2005	M5	48.03333333	ton BLS/hr		outlet
340.007	No		PM	2004	Smelt Dissolving Tank	unspecified	7/23/2004	M5	49.73	ton BLS/hr		outlet
100.109	No		PM	2001	Smelt Dissolving Tank		8/9/2001	M5	57.5	ton BLS/hr		Outlet
112.AA-101	Yes	smelt dissolving tank rebuilt in 2009 following testing.	PM	2009	Smelt Dissolving Tank		3/18/2009	M5	117.18	ton BLS/hr		Outlet
114.U508	No		PM	2008	Smelt Dissolving Tank		12/18/2008	M5	105.83	ton BLS/hr		Outlet
115.SM01	no		PM	2010	SDT West		9/9/2010	M5	87.5	ton BLS/hr		Outlet
115.SM01	no		PM	2010	SDT East		9/9/2010	M5	87.5	ton BLS/hr		Outlet
116.004	No		PM	2004	Smelt Dissolving Tank Vent		7/20/2004	M5	95.41	ton BLS/hr		Outlet
116.004	No		PM	2010	Smelt Dissovling Tank Vent		9/2/2010	M5	95	ton BLS/hr		Outlet
119.EQT005	No		PM	2007	No. 20 SDT		1/3/2007	M5	unspecified			Outlet
119.EQT011	No		PM	2007	No. 21 SDT		3/21/2007	M5	unspecified			Outlet
120.M3	No		PM	2009	#5 SDT		7/22/2009	M5	102.5	ton BLS/hr		Outlet
126.SDT	No		PM	2009	SDT		12/10/2009	M5	51.6	ton BLS/hr		Outlet
127.SDT1	No		PM	2005	SDT Vent		2/15/2005	M5	71.16	ton BLS/hr		Outlet
131.SDT4N	No		PM	2004	SDT 4N		3/8/2004	M5	63.58639583	ton BLS/hr		Outlet
131.SDT4S	No		PM	2004	SDT 4S		3/8/2004	M5	63.58639583	ton BLS/hr		Outlet
131.SDT5	No		PM	2003	SDT 5		12/9/2003	M5	62.91416667	ton BLS/hr		Outlet
132.4SDT			PM	2010	4 SDT		5/20/2010	M5	63.49	ton BLS/hr		Outlet
132.5SDT			PM	2010	5 SDT		5/18/2010	M5	74.18	ton BLS/hr		Outlet
136.EU 031	no		PM	2010	SDT		5/19/2010	M5	113.5	ton BLS/hr		Outlet
137.204	No		PM	2010	No. 5 SDT		9/15/2010	M5	95.01	ton BLS/hr		Outlet
138.003	No		PM	2010	Smelt Dissolving Tank		9/23/2010	M5	57.01388889	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
142.P7413	No	New stack and scrubber specific to SDT-1 installed during 2011.	PM	2004	No. 1 and No. 2 SDTs		7/22/2004	M5	73.45733333	ton BLS/hr		Outlet
146.10	No		PM	2008	No. 1 SDT (upriver vent)		10/16/2008	M5	76.66666667	ton BLS/hr		Outlet
146.10	No		PM	2008	No. 1 SDT (downriver vent)		10/16/2008	M5	76.875	ton BLS/hr		Outlet
146.17	No		PM	2008	No. 2 SDT		10/16/2008	M5	114.375	ton BLS/hr		Outlet
147.161	no	NA	PM	2004	SDT3		7/28/2004	M5	57.6	ton BLS/hr		Outlet
147.244	no	NA	PM	2004	SDT2		7/28/2004	M5	37.9	ton BLS/hr		Outlet
148.002	no		PM	2010	No. 1 SDT		7/21/2010	M5	58.6	ton BLS/hr		Outlet
148.008	no		PM	2010	No. 2 SDT		7/20/2010	M5	81.3	ton BLS/hr		Outlet
149.P005	no		PM	2009	No. 9 SDT		4/3/2009	M5	68.35	ton BLS/hr		Outlet
150.CREC-2b	No		PM	2007	Smelt Tank East		8/29/2007	M5	87.3	ton BLS/hr		Outlet
150.CREC-2a	No		PM	2007	Smelt Tank West		8/29/2007	M5	87.3	ton BLS/hr		Outlet
154.P38 - Smelt Dissolving Tank 3	No		PM	2006	SDT3		8/1/2006	M5	33.77333333	ton BLS/hr		Outlet
155.SDT	No		PM	2011	Smelt Dissolving Tank		3/3/2011	M5	77.7	ton BLS/hr		Outlet
156.SMEL18	No		PM	2010	SDT 18		3/17/2010	M5	42.467	ton BLS/hr		Outlet
156.SMEL18	No		PM	2010	SDT 18		8/4/2010	M5	42.5085	ton BLS/hr		Outlet
156.SMEL19	No		PM	2010	SDT 19		4/6/2010	M5	59.521	ton BLS/hr		Outlet
156.SMEL19	No		PM	2010	SDT 19		9/20/2010	M5	55.4085	ton BLS/hr		Outlet
156.SMEL19	No		PM	2010	SDT 19		10/27/2010	M5	66.31	ton BLS/hr		Outlet
156.SMEL19	No		PM	2010	SDT 19		11/9/2010	M5	57.5065	ton BLS/hr		Outlet
156.SMEL19	No		PM	2010	SDT 19		12/7/2010	M5	55.0005	ton BLS/hr		Outlet
156.SMEL22	No		PM	2010	SDT 22		1/26/2010	M5	88.5	ton BLS/hr		Outlet
156.SMEL22	No		PM	2010	SDT 22		2/11/2010	M5	86.5	ton BLS/hr		Outlet
156.SMEL22	No		PM	2010	SDT 22		4/8/2010	M5	83	ton BLS/hr		Outlet
156.SMEL22	No		PM	2010	SDT 22		9/10/2010	M5	60	ton BLS/hr		Outlet
156.SMEL22	No		PM	2010	SDT 22		11/18/2010	M5	68.5	ton BLS/hr		Outlet
162.381C	No		PM	2007	No. 1 SDT		10/25/2007	M5	50	ton BLS/hr		Outlet
162.382B	No		PM	2009	No. 2 SDT		5/21/2009	M5	106	ton BLS/hr		Outlet
163.SD1902	No		PM	2011	No. 1 SDT South		6/1/2011	M5	51.5	ADTP/hr	ton BLS/hr not provided	Outlet
163.SD1903	No		PM	2011	No. 1 SDT North		6/1/2011	M5	51.5	ADTP/hr	ton BLS/hr not provided	Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
163.SD2906	No		PM	2011	No. 2		6/2/2011	M5	65.20833333	ton BLS/hr		Outlet
164.P08			PM	2004	No. 8 SDT		6/14/2004	M5	unspecified			Outlet
164.P10			PM	2004	No. 10 SDT		6/16/2004	M5	unspecified			Outlet
165.000008	No		PM	2004	No. 2 Smelt Tank Scrubber		7/21/2004	M5	91.4	ton BLS/hr		Outlet
165.000014	No		PM	2004	No. 1 Smelt Tank Scrubber		7/27/2004	M5	49.53	ton BLS/hr		Outlet
169.06	No		PM	2010	Smelt Dissolving Tank No. 1		9/21/2010	M5	76.8	ton BLS/hr		Outlet
169.07	No		PM	2010	Smelt Dissolving Tank No. 2		9/21/2010	M5	79.1	ton BLS/hr		Outlet
172.ST01	no		PM	2010	No. 1 SDT		10/27/2010	unspecified	35.83	ADTP/hr		Outlet
175.ST2A	no		PM	2010	No. 2 SDT		4/13/2010	M5	30.9	ton BLS/hr		Outlet
177.EU0805	No		PM	2011	SDT		3/29/2011	M5	83.6	ton BLS/hr	Converted from kpph BLS (thousand lb/hr)	Outlet
179.SDT	No		PM	2010	No. 3 SDT Vent		6/2/2010	M5	93.17	ton BLS/hr		Outlet
179.SDT	No		PM	2009	No. 3 SDT Vent		5/27/2009	M5	86.8	ton BLS/hr		Outlet
180.D002, D907	No		PM	2009	No. 3 SDT Vent		3/17/2009	M5	73.81	ton BLS/hr		Outlet
181.11	No		PM	2006	No. 4 RB SDT (condition 1: P-dop = 6.9 in H2O)		11/2/2006	M5	58	ton BLS/hr		Outlet
181.11	No		PM	2006	No. 4 RB SDT (condition 3: P-drop = 7.7 in H2O)		11/3/2006	M5	57	ton BLS/hr		Outlet
181.11	No		PM	2005	No. 4 RB SDT		1/25/2005	M5	57.73	ton BLS/hr		Outlet
181.51	No		PM	2006	No. 5 RB SDT - (condition 1: P-drop = 5.9 in H2O)		10/31/2006	M5	51	ton BLS/hr		Outlet
181.51	No		PM	2006	No. 5 RB SDT - (condition 2: P-drop = 7.0 in H2O)		11/1/2006	M5	46	ton BLS/hr	Summary sheet had 50, but test report appendix had 46 ton BLS/hr. Used 46.	Outlet
181.51	No		PM	2006	No. 5 RB SDT - (condition 3: P-drop = 7.1 in H2O)		11/1/2006	M5	50	ton BLS/hr		Outlet
181.51	No		PM	2005	No. 5 RB SDT		1/25/2005	M5	48.25	ton BLS/hr		Outlet
182.110	no		PM	2005	Smelt Dissolving Tank Vent		4/12/2005	M5	66.38333333	ton BLS/hr		Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		2/4/2009	M5	53.15277778	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		3/11/2009	M5	52.01388889	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		8/26/2009	M5	51.94444444	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		11/12/2009	M5	52.33333333	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		1/2/2009	M5	52.375	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
185.05	No		PM	2009	No. 4 Smelt Dissolver		6/3/2009	M5	53.77777778	ton BLS/hr	provided TBLS/day--divided by 24 to get hourly	Outlet
186.RB17	No		PM	2009	No. 4 Smelt Tank		7/13/2009	M5	128.31	ton BLS/hr		Outlet
186.RB17	No		PM	2008	No. 4 Smelt Tank		7/22/2008	M5	127.2	ton BLS/hr		Outlet
189.SN27	no		PM	2010	SDT East		12/2/2010	M5	115.4166667	ton BLS/hr	provided BLS MM#/day, converted to TBLS/hr	Outlet
189.SN28	no		PM	2010	SDT West		11/30/2010	M5	114.9375	ton BLS/hr	provided BLS MM#/day, converted to TBLS/hr	Outlet
190.R404	No		PM	2010	No. 1 SDT		4/21/2010	M5	46.5	ton BLS/hr		Outlet
190.R406	No		PM	2010	No. 3 SDT		3/23/2010	M5	74.5	ton BLS/hr		Outlet
196.SN-08North	no		PM	2010	No. 2 North Smelt Tank Vent		4/20/2010	M5	79.16666667	ton BLS/hr	provided MM#/day (appears to be BLS), converted to ton/hr	Outlet
196.SN-08South	no		PM	2010	No. 2 South Smelt Tank Vents		4/20/2010	M5	79.16666667	ton BLS/hr	provided MM#/day (appears to be BLS), converted to ton/hr	Outlet
198.020	No		PM	2004	No. 3 SDT		7/27/2004	M5	111.95	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
200.007_8, 007_9	No		PM	2009	Nos. 2 and 3 SDT Vent		7/29/2009	M5	118.6	ton BLS/hr		Outlet
202.Smelt Dissolving Tank EU322	no	Particulate matter test includes condensable as well as method 5 filterable	PM	2011	SDT EU322		7/19/2011	M5	57.3	ton BLS/hr		Outlet
203.2DTScr	No		PM	2010	No. 2 DT Scrubber Vent Stack		10/12/2010	M5	55.7	gpm	Black Liq. Flow	Outlet
203.3DTScr	No		PM	2010	No. 3 SDT		10/26/2010	M5	68.30208	ton BLS/hr	Calculated based on avg of 308 gpm @ 66% solids and 11.2 lb/gal provided in report.	Outlet
207.108	no	NA	PM	2003	Smelt Tank		9/24/2003	M5	20.2	ton BLS/hr		Outlet
226.SDT1N	no		PM	2004	No. 2 SDT North		1/19/2004	M5	82.3	ton BLS/hr		Outlet
226.SDT1S	no		PM	2004	No. 2 SDT South		1/20/2004	M5	83.96	ton BLS/hr		Outlet
226.SDT2	no		PM	2004	No. 3 SDT		1/17/2004	M5	52.6	ton BLS/hr		Outlet
240.RF02	No		PM	2010	No. 5 SDT		5/25/2010	M5	67.4	ton BLS/hr		Outlet
240.RF05	No		PM	2010	No. 6 SDT East		3/17/2010	M5	119.6	ton BLS/hr		Outlet
240.RF06	No		PM	2010	No. 6 SDT West		3/17/2010	M5	119.6	ton BLS/hr		Outlet
242.AA-012	No		PM	2010	SDT		9/15/2010	M5	125.2	ton BLS/hr	RF PM, TRS, Nox, CO, SO2; LK PM, TRS, Nox, CO, SO2; INC TRS, Nox, CO, SO2, THC; O2 delig THC and CO; pet coke BH PM; bleach plant Cl2 and ClO2	Outlet
243.R403	No		PM	2009	No. 5 SDT		10/29/2009	M5	35.37	ton BLS/hr		Outlet
243.R408	No		PM	2009	No. 6 SDT		10/28/2009	M5	120.1	ton BLS/hr		Outlet
531.RF10	No		PM	2011	No. 15 SDT		5/4/2011	M5	150	ton BLS/hr		Outlet
600.G0805	no		PM	2010	No. 2 SDT		11/2/2010	M5	85.56	ton BLS/hr		Outlet
600.G0807	no		PM	2010	No. 3 SDT		6/8/2010	M5	104	ton BLS/hr		Outlet
615.25	no		PM	2009	SDT		10/20/2009	M5	64.05	ton BLS/hr	Provided production in lb BLS fired/min--converted to TBLS/hr	Outlet
617.P21	no		PM	2011	S21 SDT		3/16/2011	M5	35	ton BLS/hr		Outlet
208228535.002	No		PM	2010	No. 1 SDT		4/28/2010	M5	105.7	ton BLS/hr	Did not specify tons of BLS, ADTP, etc. Assumed tons "BLS" since this value is similar to other tests labeled as BLS	Outlet
208228535.002	No		PM	2011	No. 1 SDT		5/27/2011	M5	104.79	ton BLS/hr	Did not specify tons of BLS, ADTP, etc. Assumed tons "BLS" since this value is similar to other tests labeled as BLS	Outlet
208228535.008	No		PM	2010	No. 2 SDT		8/19/2010	M5	122.93	ton BLS/hr	Did not specify tons of BLS, ADTP, etc. Assumed tons "BLS" since this value is similar to other TRS and PM test that labeled as BLS	Outlet
105.EU445D	No		PM	2007	No. 4 Smelt Dissolving Tank		05/16/2007	EPA\ODEQ M5	64.4	ton BLS/hr	Units in test report provided in "MPPH" which was interpreted as thousand pounds per hour	Outlet
105.EU445BEast	no		PM	2008	Smelt dissolving tanks, #3 East Vent	Unspecified	2/20/2008	ODEQ M5	60.5	ton BLS/hr	Interpreted "MPPH" as thousand pounds per hour BLS firing rate	Outlet
105.EU445BWest	no		PM	2008	Smelt dissolving tanks, #3 West Vent	Unspecified	2/20/2008	ODEQ M5	60.5	ton BLS/hr	Interpreted "MPPH" as thousand pounds per hour BLS firing rate	Outlet
121.000009	No		PM	2002	No. 1 Smelt Dissolving Tank	Unspecified	10/29/2002	M5	34.3	ton BLS/hr		Outlet
121.000010	No		PM	2002	No. 2 Smelt Dissolving Tank	Unspecified	10/30/2002	M5	34.2	ton BLS/hr		Outlet
121.000009	No		PM	2004	No. 1 Smelt Dissolving Tank	Unspecified	8/20/2004	M5	39	ton BLS/hr		Outlet
121.000010	No		PM	2004	No. 2 Smelt Dissolving Tank	Unspecified	8/18/2004	M5	39	ton BLS/hr		Outlet
102.SDTV10	No		PM	2011	Smelt Dissolver Tank Vent	unspecified	1/5/2011	M5	121.25	ton BLS/hr	Converted from klbs/hr to tons/hr	Outlet
178.08T014	No		PM	2011	Smelt Dissolving Tank No. 1	unspecified	6/21/2011	M5	51.78	ton BLS/hr		Outlet
178.08T015	No		PM	2011	Smelt Dissolving Tank No. 2	unspecified	6/22/2011	M5	51.8	ton BLS/hr		Outlet
190.R404	No		PM	2009	SDTV NO. 1	unspecified	9/24/2009	M5	47.2733	ton BLS/hr		Outlet
105.EU445D	no		PM	2008	No. 4 Smelt Dissolving Tank	unspecified	05/20/2008	EPA\ODEQ M5	64.4	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
105.EU445D	no		PM	2008	No. 4 Smelt Dissolving Tank	unspecified	10/22/2008	EPA\ODEQ M5	59.2	ton BLS/hr		Outlet
105.EU445D	no		PM	2009	No. 4 Smelt Dissolving Tank	unspecified	06/03/2009	EPA\ODEQ M5	57.8	ton BLS/hr		Outlet
105.EU445D	no		PM	2009	No. 4 Smelt Dissolving Tank	unspecified	09/23/2009	EPA\ODEQ M5	53.8	ton BLS/hr		Outlet
178.08T015	No		PM	2004	No. 2 Smelt Dissolving Tank	unspecified	09/08/2004	M5	60.25	ton BLS/hr		Outlet
178.08T014	No		PM	2004	No. 1 Smelt Dissolving Tank	unspecified	09/07/2004	M5	60.29	ton BLS/hr		Outlet
130.11	No		PM	2011	No. 3 Smelt Dissolving Tank		06/21/2011	M5	48.48	ton BLS/hr		Outlet
130.6	No		PM	2011	No. 1 Smelt Dissolving Tank		06/23/2011	M5	30.30	ton BLS/hr		Outlet
130.7	No		PM	2011	No. 2 Smelt Dissolving Tank		06/22/2011	M5	29.83	ton BLS/hr		Outlet
135.007-1, 007-2	No		PM	2011	Smelt Dissolving Tank		02/16/2011	M5	110.80	ton BLS/hr		Outlet
137.157	No		PM	2010	No. 4 Recovery Smelt Dissolver		08/31/2010	M5	27.50	ton BLS/hr		Outlet
137.157	No		PM	2010	No. 4 Recovery Smelt Dissolver		09/16/2010	M5	27.19	ton BLS/hr		Outlet
139.03	Yes	Scrubber design reviewed and improvements made to scrubber damper and spray nozzle locations.	PM	2004	Smelt Dissolving Tank		09/10/2004	M5	45.09	ton BLS/hr		Outlet
140.57	Yes		PM	2010	Smelt Dissolving Tank		10/06/2010	M5	52.71	ton BLS/hr		Outlet
140.57	No		PM	2011	Smelt Dissolving Tank		03/31/2011	ODEQ M5	52.92	ton BLS/hr		Outlet
140.57	No		PM	2011	Smelt Dissolving Tank		03/31/2011	ODEQ M5	52.92	ton BLS/hr		Outlet
142.P7236	No		PM	2003	No. 3 Smelt Dissolving Tank Vent		06/30/2003	M5	66.50	ton BLS/hr		Outlet
143.7005	no		PM	2009	No. 1 Smelt Dissolving Tank		11/05/2009	M5	16.85	ton BLS/hr		Outlet
143.7015	no		PM	2009	No. 2 Smelt Dissolving Tank		11/05/2009	M5	17.72	ton BLS/hr		Outlet
143.7025	no		PM	2009	No. 3 Smelt Dissolving Tank		11/04/2009	M5	26.90	ton BLS/hr		Outlet
152.04	No		PM	2007	Smelt Dissolving Tank		03/07/2007	M5	66.30	ton BLS/hr		Outlet
154.P32 - Smelt Dissolving Tank 1	No		PM	2004	No. 1 Smelt Dissolving Tank		03/09/2004	M5	35.46	ton BLS/hr		Outlet
154.P32 - Smelt Dissolving Tank 1	No		PM	2004	No. 1 Smelt Dissolving Tank		05/05/2004	M5	35.41	ton BLS/hr		Outlet
154.P35 - Smelt Dissolving Tank 2	No		PM	2004	No. 2 Smelt Dissolving Tank		03/10/2004	M5	35.68	ton BLS/hr		Outlet
154.P35 - Smelt Dissolving Tank 2	No		PM	2004	No. 2 Smelt Dissolving Tank		05/06/2004	M5	35.10	ton BLS/hr		Outlet
157.SDT	No		PM	2005	Smelt Dissolving Tank		08/23/2005	M5	32.40	ton BLS/hr		Outlet
167.007SDT	no	NA	PM	2011	Smelt Dissolving Tank		01/17/2011	M5	72.03	ton BLS/hr		Outlet
171.006	no		PM	2009	No. 2 Smelt Dissolving Tank		07/08/2009	M5	27.19	ton BLS/hr		Outlet
171.007	no		PM	2009	No. 3 Smelt Dissolving Tank		07/07/2009	M5	27.64	ton BLS/hr		Outlet
171.008	no		PM	2009	No. 4 Smelt Dissolving Tank		07/06/2009	M5	84.05	ton BLS/hr		Outlet
173.SDT	No	NA	PM	2001	Smelt Dissolving Tank		12/19/2000	M5	41.67	ton BLS/hr		Outlet
173.SDT	No	NA	PM	2004	Smelt Dissolving Tank		09/30/2004	M5	44.30	ton BLS/hr		Outlet
175.ST3A	no		PM	2009	No. 3 Smelt Dissolving Tank		03/24/2009	M5	116.57	ton BLS/hr		Outlet
184.SDT1	No		PM	2004	Smelt Tank No. 1, West		08/27/2004	M5	44.58	ton BLS/hr		Outlet
184.SDT1	No		PM	2004	Smelt Tank No. 1, West		08/31/2004	M5	61.46	ton BLS/hr		Outlet
184.SDT2a	No		PM	2004	Smelt Tank No. 2, East		08/25/2004	M5	31.46	ton BLS/hr		Outlet
184.SDT2a	No		PM	2004	Smelt Tank No. 2, East		08/26/2004	M5	45.42	ton BLS/hr		Outlet
184.SDT2a	No		PM	2004	Smelt Tank No. 2, East		10/26/2004	M5	45.42	ton BLS/hr		Outlet
184.SDT2b	No		PM	2004	Smelt Tank No. 2, West		08/25/2004	M5	31.46	ton BLS/hr		Outlet
184.SDT2b	No		PM	2004	Smelt Tank No. 2, West		08/26/2004	M5	45.42	ton BLS/hr		Outlet
184.SDT2b	No		PM	2004	Smelt Tank No. 2, West		10/21/2004	M5	45.42	ton BLS/hr		Outlet
188.015SD1	No		PM	2011	No. 1 Smelt Dissolving Tank		06/06/2011	M5	29.45	ton BLS/hr		Outlet
188.017SD2	No		PM	2011	No. 2 Smelt Dissolving Tank		06/06/2011	M5	30.14	ton BLS/hr		Outlet
190.R405	No		PM	2009	Smelt Dissolving Tank No. 2		10/15/2009	M5	44.95	ton BLS/hr		Outlet
196.SN-15	no		PM	2004	No. 3 Smelt Dissolving Tank		09/03/2004	M5	110.14	ton BLS/hr		Outlet
199.004	No		PM	2011	No. 3 Smelt Dissolving Tank		06/15/2011	M5	76.25	ton BLS/hr	converted from 3.66 million lb/day	Outlet
201.SR0034	No		PM	2004	Smelt Dissolving Tank		08/19/2004	M5	92.59	ton BLS/hr		Outlet
205.010	No		PM	2010	Smelt Dissolving Tank		07/20/2010	M5	50.51	ton BLS/hr		Outlet
206.G-35	no		PM	2005	No. 10 Smelt Dissolving Tank		01/25/2005	M5	53.57	ton BLS/hr		Outlet
206.G-35	no		PM	2005	No. 10 Smelt Dissolving Tank		11/17/2005	M5	unspecified		Production values are reserved	Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
206.G-36	no		PM	2005	No. 11 Smelt Dissolving Tank		01/26/2005	M5	57.16	ton BLS/hr		Outlet
206.G-36	no		PM	2005	No. 11 Smelt Dissolving Tank		11/20/2005	M5	unspecified		Production values are reserved	Outlet
606.SDT2	no		PM	2010	No. 2 Smelt Dissolving Tank		03/19/2010	M5	47.70	ton BLS/hr		Outlet
606.SDT2	no		PM	2011	No. 2 Smelt Dissolving Tank		04/05/2011	M5	44.00	ton BLS/hr		Outlet
606.SDT3	no		PM	2005	No. 3 Smelt Dissolving Tank		10/25/2005	M5	40.90	ton BLS/hr		Outlet
606.SDT3	no		PM	2010	No. 3 Smelt Dissolving Tank		07/25/2010	M5	39.00	ton BLS/hr		Outlet
606.SDT4	no		PM	2006	No. 4 Smelt Dissolving Tank		07/20/2006	M5	66.00	ton BLS/hr		Outlet
606.SDT4	no		PM	2010	No. 4 Smelt Dissolving Tank		10/25/2010	M5	62.50	ton BLS/hr		Outlet
610.10	no		PM	2009	No. 2 Smelt Dissolving Tank		07/09/2009	M5	64.20	ton BLS/hr		Outlet
610.10	no		PM	2009	No. 2 Smelt Dissolving Tank		07/09/2009	M5	64.40	ton BLS/hr		Outlet
610.9	no		PM	2009	No. 1 Smelt Dissolving Tank		07/08/2009	M5	46.00	ton BLS/hr		Outlet
610.9	no		PM	2009	No. 1 Smelt Dissolving Tank		07/08/2009	M5	45.80	ton BLS/hr		Outlet
613.005	No		PM	2009	No. 1 Smelt Dissolving Tank - Left Side		10/29/2009	M5	unspecified		no production data given	Outlet
613.006	No		PM	2009	No. 1 Smelt Dissolving Tank - Right Side		10/29/2009	M5	unspecified		no production data given	Outlet
613.007	No		PM	2009	No. 2 Smelt Dissolving Tank - Left Side		10/29/2009	M5	unspecified		no production data given	Outlet
613.008	No		PM	2009	No. 2 Smelt Dissolving Tank - Right Side		10/29/2009	M5	unspecified		no production data given	Outlet
145.56	No		PM	2005	No. 2 RB SDT		10/26/2005	M5	37.9	ton BLS/hr		Outlet
132.4SDT			PM	2009	SDTV No. 4		6/15/2009	M5	66.76	ton BLS/hr		Outlet

atter

	Inlet - Testing Methodology Data		Inlet - Average Stack Gas Parameters							Inlet - Average Emissions Data						
RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
105.EU445D																
107.09-P2																
109.SDT3																
109.SDT4																
109.SDT3																
111.G-127																
166.ST01																
166.ST02																
174.G-63B																
174.G-63C																
174.G-63C																
174.G-63B																
174.G-63C																
174.G-63C																
124.020																
124.021																
340.007																
340.007																
100.109																
112.AA-101																
114.U508																
115.SM01																
115.SM01																
116.004																
116.004																
119.EQT005																
119.EQT011																
120.M3																
126.SDT																
127.SDT1																
131.SDT4N																
131.SDT4S																
131.SDT5																
132.4SDT																
132.5SDT																
136.EU 031																
137.204																
138.003																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
142.P7413																
146.10																
146.10																
146.17																
147.161																
147.244																
148.002																
148.008																
149.P005																
150.CREC-2b																
150.CREC-2a																
154.P38 - Smelt Dissolving Tank 3																
155.SDT																
156.SMEL18																
156.SMEL18																
156.SMEL19																
156.SMEL19																
156.SMEL19																
156.SMEL19																
156.SMEL19																
156.SMEL22																
156.SMEL22																
156.SMEL22																
156.SMEL22																
156.SMEL22																
162.381C																
162.382B																
163.SD1902																
163.SD1903																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
163.SD2906																
164.P08																
164.P10																
165.000008																
165.000014																
169.06																
169.07																
172.ST01																
175.ST2A																
177.EU0805																
179.SDT																
179.SDT																
180.D002, D907																
181.11																
181.11																
181.11																
181.51																
181.51																
181.51																
181.51																
182.110																
185.05																
185.05																
185.05																
185.05																
185.05																
185.05																
186.RB17																
186.RB17																
189.SN27																
189.SN28																
190.R404																
190.R406																
196.SN-08North																
196.SN-08South																
198.020																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
200.007_8, 007_9																
202.Smelt Dissolving Tank EU322																
203.2DTScr																
203.3DTScr																
207.108																
226.SDT1N																
226.SDT1S																
226.SDT2																
240.RF02																
240.RF05																
240.RF06																
242.AA-012																
243.R403																
243.R408																
531.RF10																
600.G0805																
600.G0807																
615.25																
617.P21																
208228535.002																
208228535.002																
208228535.008																
105.EU445D																
105.EU445BEast																
105.EU445BWest																
121.000009																
121.000010																
121.000009																
121.000010																
102.SDTV10																
178.08T014																
178.08T015																
190.R404																
105.EU445D																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
105.EU445D																
105.EU445D																
105.EU445D																
178.08T015																
178.08T014																
130.11																
130.6																
130.7																
135.007-1, 007-2																
137.157																
137.157																
139.03																
140.57																
140.57																
140.57																
142.P7236																
143.7005																
143.7015																
143.7025																
152.04																
154.P32 - Smelt Dissolving Tank 1																
154.P32 - Smelt Dissolving Tank 1																
154.P35 - Smelt Dissolving Tank 2																
154.P35 - Smelt Dissolving Tank 2																
157.SDT																
167.007SDT																
171.006																
171.007																
171.008																
173.SDT																
173.SDT																
175.ST3A																
184.SDT1																
184.SDT1																
184.SDT2a																
184.SDT2a																
184.SDT2a																
184.SDT2b																
184.SDT2b																
184.SDT2b																
188.015SD1																
188.017SD2																
190.R405																
196.SN-15																
199.004																
201.SR0034																
205.010																
206.G-35																
206.G-35																

RTI+EUID	Average Sampling Run Length_Inlet (mins)	Average Fraction of Isokinetic Sampling Rate_Inlet (%)	Average Airflow Rate_Inlet (acfm)	Average Airflow Rate_Inlet (dscfm)	Average Gas Moisture_Inlet (%)	Average Gas Temp_Inlet (F)	Average Gas Pressure_Inlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Inlet (%)	Average_Inlet concentration	Average Inlet concentration units	Number of Inlet Test Runs	Count Inlet Non-Detect Runs	Average_Inlet (lb/hr)	Average_Inlet (lb/production)	Average Lb/Production units
206.G-36																
206.G-36																
606.SDT2																
606.SDT2																
606.SDT3																
606.SDT3																
606.SDT4																
606.SDT4																
610.10																
610.10																
610.9																
610.9																
613.005																
613.006																
613.007																
613.008																
145.56																
132.4SDT																

atter

	Outlet - Testing Methodology Data		Outlet - Average Stack Gas Parameters							Outlet - Average Emissions Data							Removal Efficiency
RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
105.EU445D	76	108	24663	10215	49.3	179.28	29.6	0.03	20.95	0.0751	gr/dscf	3	0	6.58	0.1114	lb/ton BLS	
107.09-P2	60	102.4	21808	4934	71.6	197.6	29.676	unspecified	unspecified	0.309	gr/dscf	3	0	13.03	0.1380	lb/ton BLS	
109.SDT3	60	99.37	17287	8689.67	38.97	169.9	29.4	0	21	0.0524	gr/dscf	3	0	3.9	0.0790	lb/ton BLS	
109.SDT4	61.3	99.3	27746.67	11488	49.03	179.5	29.4	0	21	0.0493	gr/dscf	3	0	4.89	0.0580	lb/ton BLS	
109.SDT3	65	107	15696.67	7576	40.93	170.92	29.23	0	21	0.057	gr/dscf	3	0	3.72	0.0840	lb/ton BLS	
111.G-127	62	97.83	26630	20899	29.82	183.7	29.69	0	20.7	0.0218	gr/dscf	3	0	3.91	0.0863	lb/ton BLS	
166.ST01	60	100.2	42564	24297	32.8	159.2	29.53	0	20.9	0.048	gr/dscf	3	0	9.9	0.1441	lb/ton BLS	
166.ST02	60	101.8	31171	13241	48.6	176.5	29.44	0	20.9	0.114	gr/dscf	3	0	12.9	0.1568	lb/ton BLS	
174.G-63B	60	102.1	31058	20165	24.7	152.1	29.91	0	20.9	0.057	gr/dscf	3	0	9.9	0.1953	lb/ton BLS	
174.G-63C	60	97.1	29005	17125	35.8	158.3	30.08	0	20.9	0.04	gr/dscf	3	0	5.8	0.0416	lb/ton BLS	
174.G-63C	60	103.9	27430	16752	29	158.8	30.2	0	20.9	0.029	gr/dscf	3	0	4.2	0.0301	lb/ton BLS	
174.G-63B	60	100.4	29487	18229	28	155.9	30	0	20.9	0.073	gr/dscf	3	0	11.5	0.2519	lb/ton BLS	
174.G-63C	60	100.7	29625	15171	38.9	169	29.91	0	20.9	0.0384	gr/dscf	3	0	5	0.0358	lb/ton BLS	
174.G-63C	60	98.5	28472	16983	32.2	157.1	29.91	0	20.9	0.0293	gr/dscf	3	0	4.26	0.0305	lb/ton BLS	
124.020	66	95.1	47994	30916	24.6	156.4	29.84	0	20.9	0.0209	gr/dscf	3	0	5.541	0.0951	lb/ton BLS	
124.021	68	99.7	47828	30980	24.8	146.8	29.63	0	20.9	0.0203	gr/dscf	3	0	5.393	0.0929	lb/ton BLS	
340.007	60	107	21177	10517	40.57	174	30.03	0	20.9	0.086	gr/dscf	3	0	7.74	0.1611	lb/ton BLS	
340.007	60	105	23025	12115	37	170	29.872	0	20.9	0.078	gr/dscf	3	0	8.19	0.1647	lb/ton BLS	
100.109	92	95.53333333	12566.66667	4590	53.2	179.3333333	28.32	0.4	19.7	0.078566667	gr/dscf	3	0	3.066666667	0.053333333	lb/ton BLS	
112.AA-101	62	95.82	85119	47483	34.46	165.8	30.23	0	20.5	0.0321	gr/dscf	3	0	12.98	0.110769756	lb/ton BLS	
114.U508	61.33333333	94.6	34685	19715	33.46666667	159.3333333	30.00666667	0	21	0.0818	gr/dscf	3	0	13.82	0.13	lb/ton BLS	
115.SM01	77.66666667	99.5	19046	9545	40.5	167.6	29.94	0	20.9	0.044	gr/dscf	3	0	3.608	0.041234286	lb/ton BLS	
115.SM01	77	98.7	18998	10564	34.4	162.9	29.94	0	20.9	0.0316	gr/dscf	3	0	2.86	0.032685714	lb/ton BLS	
116.004	60	95.7	47368	28533	29.8	157.6	30	0	20.9	0.02971602	gr/dscf	3	0	7.28	0.0763	lb/ton BLS	
116.004	61	104	43008	25031	31.8	161	30.06	0	20.9	0.041	gr/dscf	3	0	8.81	0.093	lb/ton BLS	
119.EQT005	64.33333333	101.2	30237	21233	20.1	144		0	20.73	0.05327	gr/dscf	3	0	9.998	unspecified		
119.EQT011	63	96.33	33161	15754	43.3	173		0	20.77	0.09041	gr/dscf	3	0	12.209	unspecified		
120.M3	60	100.1	26374	7529	64.2	190.2	29.41	0.5	20	not provided		3	0	not provided	0.05	lb/ton BLS	
126.SDT	60	96.21666667	42308	30776	18.11	134.31	29.36	0	20.77	0.0323	gr/dscf	3	0	8.355	0.161918605	lb/ton BLS	
127.SDT1	60	100.3	24923	14886	30.3	157.8	30.02	0	20.9	0.0306	gr/dscf	3	0	3.89	0.054665542	lb/ton BLS	
131.SDT4N	65	97.6	17400	11900	21.2	144	29.73	0	20.8	0.018	gr/dscf	3	0	1.8	0.028307942	lb/ton BLS	
131.SDT4S	65	99.1	20200	12000	31.6	157	29.72	0	20.8	0.041	gr/dscf	3	0	4.2	0.066051864	lb/ton BLS	
131.SDT5	65	100.2	29300	16200	36.7	163	29.98	0	20.8	0.028	gr/dscf	4	0	3.8	0.060399751	lb/ton BLS	
132.4SDT	60	92.93	40442	26802	22.65	154.64	29.83			0.0091	gr/dscf	3	0	2.079	0.0328	lb/ton BLS	
132.5SDT	60	98.77666667	31913	17033	36.92	166.53	29.88			0.0699	gr/dscf	3	0	10.141	0.137	lb/ton BLS	
136.EU 031	76.33333333	105.4	34300	11500	57.01333333	183.6666667	28.57	0.233333333	19.73333333	0.116	gr/dscf	3	0	11.5	0.1	lb/ton BLS	
137.204	72	101	29000	11400	51.2	179	29.24	0.03	20.95	0.097	gr/dscf	3	0	9.5	0.1	lb/ton BLS	
138.003	60	104.0433333		5928.966667	55.96	199.9966667	30.1	1.1	19	0.0886	gr/dscf	3	0	4.48	0.078577345	lb/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
142.P7413	180	94	30089	17286	31.4	160	29.45	0	20.9	0.054	gr/dscf	3	0	7.97	0.108	lb/ton BLS	
146.10	67.66666667	101.8	25775	13962	34.9	145.9	28.54	0	20.9	0.0231	gr/dscf	3	0	2.767	0.036091304	lb/ton BLS	
146.10	64.33333333	107.5	24615	14234	30.1	148.8	28.55	0	20.9	0.0152	gr/dscf	3	0	1.848	0.024039024	lb/ton BLS	
146.17	67.66666667	101	36256	16907	41.6	175.6	28.76	0.2	20.6	0.0456	gr/dscf	3	0	6.578	0.057512568	lb/ton BLS	
147.161	45	106.3	21046	9740		165.33	29.91	0	20.9	0.0684	gr/dscf	2	0	5.71	0.0993	lb/ton BLS	
147.244	45	92.9	16996	9625		159.33	29.91	0	20.9	0.062	gr/dscf	2	0	5.15	0.1358	lb/ton BLS	
148.002	66	95.1	25147	12449	41.3	171.66	30.14	0	20.9	0.0499	gr/dscf	3	0	5.3	0.0909	lb/ton BLS	
148.008	74.33333333	99.1	24502	7384	61.8	190	29.11	0	20.9	0.1904	gr/dscf	4	0	12.04	0.148093481	lb/ton BLS	
149.P005	62.66666667	99.9	17100	6680	50.2	178	28.37	0	20.8	0.122255489	gr/dscf	3	0	7	0.102415946	lb/ton BLS	
150.CREC-2b	60	103.7	16222	6791	48.9	187	30.02	0	20.9	0.0637	gr/dscf	3	0	3.7	0.043	lb/ton BLS	
150.CREC-2a	60	107.2	14429	5173	56	190	30.03	0	20.9	0.104	gr/dscf	3	0	4.6	0.053	lb/ton BLS	
154.P38 - Smelt Dissolving Tank 3	62	111.7	13869	7159	37.1	175.9	29.59	0.2	20.4	0.0206	gr/dscf	4	0	1.265	0.037	lb/ton BLS	
155.SDT	62	103.2	34390	15416	44.7	191.33	29.92	0.1	20.6	0.054	gr/dscf	5	0	6.95	0.089	lb/ton BLS	
156.SMEL18	60	103.1	24168	17618	19	133	30.57	0.1	20.9	0.0249	gr/dscf	3	0	3.77	0.0889	lb/ton BLS	
156.SMEL18	60	103.1	24329	17185	19.6	137	30.06	0.1	20.9	0.0257	gr/dscf	3	0	3.83	0.0901	lb/ton BLS	
156.SMEL19	60	106.4	23424	15631	23.9	141	30.12	0.1	20.9	0.0253	gr/dscf	3	0	3.4	0.0572	lb/ton BLS	
156.SMEL19	60	110.3	22834	13087	32.9	156	29.86	0.1	20.9	0.0394	gr/dscf	3	0	4.42	0.08	lb/ton BLS	
156.SMEL19	60	108.6	24038	14251	31.5	159	30.12	0.1	20.9	0.0476	gr/dscf	3	0	6.34	0.0954	lb/ton BLS	
156.SMEL19	60	116.6	19118	10666	34.1	156	29.87	0.1	20.9	0.0595	gr/dscf	3	0	5.54	0.0963	lb/ton BLS	
156.SMEL19	60	113	22697	12568	34.3	158	30.01	0.1	20.9	0.0359	gr/dscf	3	0	3.79	0.0689	lb/ton BLS	
156.SMEL22	60	131.8	18347	7806	49	166	29.94	0.1	20.9	0.0701	gr/dscf	3	0	4.63	0.0522	lb/ton BLS	
156.SMEL22	60	108.3	17225	9113	36.6	161	29.94	0.1	20.9	0.0555	gr/dscf	3	0	4.32	0.0501	lb/ton BLS	
156.SMEL22	60	119.6	17245	8392	41.5	171	30.17	0.1	20.9	0.0484	gr/dscf	3	0	3.48	0.0419	lb/ton BLS	
156.SMEL22	60	105.9	14795	7011	43.2	169	30.11	0.1	20.9	0.0483	gr/dscf	3	0	2.89	0.0483	lb/ton BLS	
156.SMEL22	60	106.1	17811	9603	35.8	158.6666667	29.94	0.1	20.9	0.0469	gr/dscf	3	0	3.85	0.0564	lb/ton BLS	
162.381C	64	99	33126	16543	39.2	172.8	29.52	0	20.9	0.0506	gr/dscf	3	0	7.2	0.1435	lb/ton BLS	
162.382B	60	100	53063	26930	41.9	171.1	29.88	0	20.9	0.0493	gr/dscf	3	0	11.4	0.1071	lb/ton BLS	
163.SD1902	65.66666667	102.6	16534	10801	24.3	151.3333333	29.94	0	20.9	0.019	gr/dscf	3	0	1.78	unspecified		
163.SD1903	65.66666667	102.6	24170	16563	21.6	144.3333333	29.94	0	20.9	0.02	gr/dscf	3	0	2.82	unspecified		

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
163.SD2906	62	100.8	42577	23498	34.9	164	30.02	0	20.9	0.0482	gr/dscf	3	0	9.69	0.148600639	lb/ton BLS	
164.P08	61	99.5	8678	5025	30	160.9	29.1	0	20.8	0.04724	gr/dscf	3	0	2.0373	unspecified		
164.P10	61	99.06666667	12317	6273	38	169.2	29.3	0	20.8	0.05742	gr/dscf	3	0	3.0941	unspecified		
165.000008	63.66666667	103	43333	27737	25.1	148.8	29.52	0	20.9	0.036	gr/dscf	3	0	8.64	0.0945	lb/ton BLS	
165.000014	67	99	26406	16183	28.4	154.5	29.85	0	20.9	0.039	gr/dscf	3	0	5.38	0.1086	lb/ton BLS	
169.06	60	99.3	36073	21506	29.3	156.1	29.52	0	20	0.052	gr/dscf	3	0	9.605	0.125065104	lb/ton BLS	
169.07	60	100.4	41381	24713	29.6	156.7	29.61	0	20	0.0618	gr/dscf	3	0	13.06	0.165107459	lb/ton BLS	
172.ST01	66.33333333	96.4	15678	9349	30.3	158	29.96	0	20.9	0.042	gr/dscf	3	0	3.33	unspecified		
175.ST2A	62.33333333	99.3	45138	32927	18.1	85	30.28	0	20.9	0.0213	gr/dscf	4	0	6.03	0.1951	lb/ton BLS	
177.EU0805	63.66666667	94.2	33735	16415	40	171.9	29.03	0.1	20.3	0.0204	gr/dscf	3	0	2.864	0.0343	lb/ton BLS	
179.SDT	60	97.7	36585	17457	42.1	171.3	29.5	0	20.9	0.049	gr/dscf	3	0	7.33	0.078673393	lb/ton BLS	
179.SDT	60	98.5	36744	17473	42	173	29.51	0	20.9	0.044	gr/dscf	3	0	6.56	0.075576037	lb/ton BLS	
180.D002, D907	60	98.3	22043	10922	40.8	170.2	29.82	0	21	0.037	gr/dscf	3	0	3.5	0.0471	lb/ton BLS	
181.11	75.66666667	103.7	26072	11400	51	180.3	30.24	0	20.9	0.1082	gr/dscf	3	0	10.6	0.183	lb/ton BLS	
181.11	68	100.4	21433	9613	46	180	30.31	0	20.9	0.0872	gr/dscf	3	0	6.9	0.122	lb/ton BLS	
181.11	60	94	23217	11021	42.1	177	29.5385	0	20.9	0.066	gr/dscf	3	0	6.202	0.108	lb/ton BLS	
181.51	68	105.3	16162	8294	38.4	174.4	29.94	0	20.9	0.1632	gr/dscf	3	0	11.6	0.2288	lb/ton BLS	
181.51	64	103	17840	9761	35	169	29.98	0	20.9	0.088	gr/dscf	3	0	7.4	0.16	lb/ton BLS	
181.51	60	101.9	18899	9922	37	172	29.98	0	20.9	0.1252	gr/dscf	3	0	10.7	0.214	lb/ton BLS	
181.51	60	97	23193	13228	31.3	166	29.46	0	20.9	0.046	gr/dscf	3	0	5.24	0.109	lb/ton BLS	
182.110	72	99.23333333	17507	8676.333333	40.5	169.3333333	29.74	0.133333333	19.76666667	0.0624	gr/dscf	3	0	4.6491	0.07	lb/ton BLS	
185.05	60	96.4		7126	40.93333333	170.33	29.99	0.03	20.95	0.057333333	gr/dscf	3	0	3.474	0.065333333	lb/ton BLS	
185.05	60	95.03333333		7542	45.85333333	177.33	30.25	0.03	20.95	0.071666667	gr/dscf	3	0	4.588	0.088333333	lb/ton BLS	
185.05	60	95.76666667		8305.666667	45.6	176	30.01	0.03	20.95	0.059666667	gr/dscf	3	0	4.264333333	0.082	lb/ton BLS	
185.05	60	97.63333333		6511.666667	42.2	172.663	29.84	0.03	20.95	0.046	gr/dscf	3	0	2.571	0.049333333	lb/ton BLS	
185.05	60	97.33333333		7486.333333	40.91666667	170.33	29.72	0.03	20.95	0.046333333	gr/dscf	3	0	2.968666667	0.056666667	lb/ton BLS	
185.05	60	93.7		8583.666667	43.12666667	173.663	29.9	0.03	20.95	0.057333333	gr/dscf	3	0	4.161666667	0.077333333	lb/ton BLS	
186.RB17	60	105.18	51663	28407	34.86	166.8	29.99	0	20.5	0.0422	gr/dscf	3	0	10.28	0.080118463	lb/ton BLS	
186.RB17	73.66666667	101.1	50848	24161	43	172	29.7	0.1	20	0.058	gr/dscf	3	0	12	0.09	lb/ton BLS	
189.SN27	53.33333333	94.35666667	20263	9488.783333	44.52	166	29.94	0	20	0.0715	gr/dscf	3	0	5.8	0.05	lb/ton BLS	
189.SN28	62.66666667	108	27722	12852.91667	45.44	165	30.01	0	20	0.1054	gr/dscf	3	0	11.41	0.099	lb/ton BLS	
190.R404	65	100.2	24666	13726	34	162.66	29.7	0	20.9	0.0209	gr/dscf	3	0	2.45	0.0527	lb/ton BLS	
190.R406	65	97.3	33008	20704	25.5	149.33	29.08	0.3	20.6	0.0598	gr/dscf	3	0	10.6	0.144	lb/ton BLS	
196.SN-08North	60	103.1	23769	12116	39.1	169.5	29.89	0	21	0.0687	gr/dscf	3	0	7.12	0.089936842	lb/ton BLS	
196.SN-08South	60	104.9	25487	13678	36.3	165.6	29.86	0	21	0.0487	gr/dscf	3	0	5.61	0.070863158	lb/ton BLS	
198.020	60	102.1	28463	9400	58.3	187.4	29.024	0.44	19.54	0.1302	gr/dscf	3	0	10.42	0.093	lb/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
200.007_8, 007_9	64	95.1	53607	27322	37.9	168	29.21	0	20.9	0.0279	gr/dscf	3	0	6.5	0.0548	lb/ton BLS	
202.Smelt Dissolving Tank EU322	60	102.8	28600	16200	30.8	158	28.73	0.1	20.7	0.033	gr/dscf	3	0	4.55	0.079	lb/ton BLS	
203.2DTScr	60	91		9829	19.1	141	30.43	0	20.9	0.007	gr/dscf	1	0	0.6	unspecified		
203.3DTScr	60	97		30906	24.5	152	29.93	0	20.9	0.019	gr/dscf	3	0	5.1	0.07	lb/ton BLS	
207.108	80	99.64	8381	4596	35.21	166.81	30.12	0	20.5	0.0486	gr/dscf	3	0	1.92	0.09	lb/ton BLS	
226.SDT1N	60	99.9	19843	12917	24.9	150.6	29.98266667	0	20.9	0.0458	gr/dscf	3	0	5.028	0.0611	lb/ton BLS	
226.SDT1S	60	101.6	15039	8559	33	162.5	29.941	0	20.9	0.0784	gr/dscf	3	0	5.71	0.068	lb/ton BLS	
226.SDT2	60	105	22486	10899.66667	41.63333333	173.6	29.816	0	20.9	0.0482	gr/dscf	3	0	4.4981	0.085515209	lb/ton BLS	
240.RF02	60	100.3	46166	30312	23.9	147.5	29.72	0	20.9	0.0244	gr/dscf	3	0	6.3	0.0942	lb/ton BLS	
240.RF05	60	96	31313	17080	34.7	165	29.59	0	20.9	0.051	gr/dscf	3	0	7.51	0.0628	lb/ton BLS	
240.RF06	60	101	32674	17508	36	164.2	29.59	0	20.9	0.047	gr/dscf	3	0	7.08	0.0592	lb/ton BLS	
242.AA-012	72	108.1	27704	9085	59.2	191.1	29.76	0	20.9	0.1361	gr/dscf	3	0	10.6	0.0846	lb/ton BLS	
243.R403	60	98.6	35600	19548	34.7	166.5	29.87	0	20.9	0.031	gr/dscf	3	0	5.17	0.1463	lb/ton BLS	
243.R408	60	100.5	24431	12046	40.5	172.4	29.71	0	20.9	0.181	gr/dscf	3	0	18.77	0.1563	lb/ton BLS	
531.RF10	60	101.3	36176	13841	53.4	181.9	29.89	0	20.9	0.0549	gr/dscf	3	0	6.5	0.0434	lb/ton BLS	
600.G0805	60	96.4	23980	9855	49.1	180.7	29.41	0	20.9	0.057	gr/dscf	3	0	4.81	0.0562	lb/ton BLS	
600.G0807	60	98.5	31970	7627	69.3	195.8	29.06	0	20.9	0.074	gr/dscf	3	0	4.782	0.046	lb/ton BLS	
615.25	60	100.2	33330	22241	23.3	147.3	29.96	0.02	20.54	0.0345	gr/dscf	3	0	6.58	0.117	lb/ton BLS	
617.P21	65	103.2666667	20793.66667	10676.66667	39.36666667	164.8333333	28.99	0.166666667	20.4	0.0182	gr/dscf	3	0	1.6562	0.0473	lb/ton BLS	
208228535.002	61	99.3	37174	18322	40.7	179.6666667	30.1	0	20.9	0.044	gr/dscf	3	0	6.9	0.065	lb/ton BLS	
208228535.002	64	105	29124	10076	57.3	192	29.9	0	20.9	0.043	gr/dscf	3	0	3.74	0.036	lb/ton BLS	
208228535.008	60	100.5	57601	31721	34.7	163.3333333	29.85	0	20.9	0.0178	gr/dscf	3	0	8.81	0.072	lb/ton BLS	
105.EU445D	63	96.0	26490	11921	45.14	174.25	29.50	0.03	20.95	0.0686	gr/dscf	3	0	7.01	0.108850932	lb/ton BLS	
105.EU445BEast	60	94	12661	7594	25.92	160.86	29.25	0.03	20.95	0.063	gr/dscf	3	0	4.12	0.0681	lb/ton BLS	
105.EU445BWest	60	90.9	21268	13844	22.81	153.14	29.26	0.03	20.95	0.0416	gr/dscf	3	0	4.84	0.08	lb/ton BLS	
121.000009	60	102	16625	8510	39	167	29.63	0	20.8	0.03	gr/dscf	3	0	2.2	0.064139942	lb/ton BLS	
121.000010	60	103	20428	11900	32	160	29.86	0	20.8	0.032	gr/dscf	3	0	3.3	0.096491228	lb/ton BLS	
121.000009	60	102	19705	10700	36	168	30.47	0	20.8	0.047	gr/dscf	3	0	4.3	0.11025641	lb/ton BLS	
121.000010	60	100	22024	13900	28	157	30.57	0	20.3	0.021	gr/dscf	3	0	2.5	0.064102564	lb/ton BLS	
102.SDTV10	60	101	37092	21902	31.17	161	30.21	13.9	7	0.025	gr/dscf	3	0	4.71	0.038845361	lb/ton BLS	
178.08T014	60	96	28285	14436	38	170	29.49	0	20.9	0.068	gr/dscf	3	0	8.3	0.16	lb/ton BLS	
178.08T015	60	95	27512	12667	44	178	29.49	0	20.9	0.071	gr/dscf	3	0	7.7	0.15	lb/ton BLS	
190.R404	60	97.5	31294.3	18467.7	30.5	157.8	29.71	0	20.9	0.02	gr/dscf	3	0	3.158	0.0668	lb/ton BLS	
105.EU445D	67.3	99.4	25397	11266	45.79	173.14	29.36	0.03	20.95	0.0867	gr/dscf	3	0	8.4	0.130	lb/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
105.EU445D	76.7	102.4	23382	10871	43.98	174.17	29.83	0.03	20.95	0.073	gr/dscf	3	0	6.79	0.115	lb/ton BLS	
105.EU445D	65.7	100.5	25386	10659	48.62	178.53	29.58	0.03	20.95	0.0714	gr/dscf	3	0	6.51	0.113	lb/ton BLS	
105.EU445D	63	96.1	28244	12796	44.58	176.39	29.50	0.03	20.95	0.0523	gr/dscf	3	0	5.73	0.107	lb/ton BLS	
178.08T015	60	98.5	21700	11117	44.6	166.6	29.44	0	20.9	0.032	gr/dscf	3	0	3.06	0.051	lb/ton BLS	
178.08T014	60	93.2	20004	8915	56.6	174.3	29.49	0	20.9	0.075	gr/dscf	3	0	5.78	0.096	lb/ton BLS	
130.11	63.33	97.80	22731	14142	27.80	153.3	29.96	0.10	21.10	0.0597	gr/dscf	4	0	7.24	0.1494	lb/ton BLS	
130.6	63.33	97.70	16505	10208	28.00	154.3	29.99	0.05	21.50	0.0522	gr/dscf	3	0	4.56	0.1505	lb/ton BLS	
130.7	63.33	100.00	20585	12256	30.30	157.7	29.89	0.07	20.80	0.0675	gr/dscf	3	0	7.1	0.2380	lb/ton BLS	
135.007-1, 007-2	75.67	97.80	30371	11297	55.20	185.3	30.34	0.30	19.90	0.05	gr/dscf	3	0	4.8	0.04	lb/ton BLS	
137.157	60.00	100.50	16800	10800	24.70	152.0	29.49	0.03	20.95	0.011	gr/dscf	2	0	1.005	0.037	lb/ton BLS	
137.157	64.00	101.00	16452	9750	30.90	151.0	29.16	0.03	20.95	0.0103	gr/dscf	3	0	0.862	0.0317	lb/ton BLS	
139.03	80.00	104.00	unspecified	8054	40.95	176.5	unspecified	0.00	18.80	0.107	gr/dscf	3	0	7.4	0.16	lb/ton BLS	
140.57	71.00	93.00	19727	8902	45.67	176.9	unspecified	0.10	20.47	0.051	gr/dscf	3	0	3.85	0.073	lb/ton BLS	
140.57	78.33	96.40	20885	9506	46.27	175.3	unspecified	0.10	20.40	0.051	gr/dscf	3	0	4.16	0.079	lb/ton BLS	
140.57	78.33	96.40	20885	9506	46.27	175.3	unspecified	0.10	20.40	0.068	gr/dscf	3	0	5.55	0.1049	lb/ton BLS	
142.P7236	63.33	97.67	35038	22259	24.97	155.0	29.51	0.00	20.90	0.054	gr/dscf	3	0	10.31	0.155	lb/ton BLS	
143.7005	62.67	105.00	12816	9413	17.00	136.0	30.07	0.00	20.90	0.0077	gr/dscf	3	0	0.6	0.036	lb/ton BLS	
143.7015	61.00	101.33	12698	9458	16.00	136.7	30.07	0.00	20.90	0.0084	gr/dscf	3	0	0.7	0.04	lb/ton BLS	
143.7025	61.00	104.00	21369	16528	14.00	130.0	30.05	0.00	21.00	0.0062	gr/dscf	3	0	0.9	0.03	lb/ton BLS	
152.04	64.33	99.80	34007	20199	30.30	156.9	29.70	0.00	21.00	0.086	gr/dscf	3	0	14.87	0.22	lb/ton BLS	
154.P32 - Smelt Dissolving Tank 1	66.00	99.40	19433	11500	28.20	158.0	28.90	0.00	20.90	0.037	gr/dscf	3	0	3.7	0.1	lb/ton BLS	
154.P32 - Smelt Dissolving Tank 1	65.33	101.77	20300	10800	33.90	161.0	28.46	0.00	20.90	0.059	gr/dscf	3	0	5.5	0.15	lb/ton BLS	
154.P35 - Smelt Dissolving Tank 2	66.33	100.70	17900	10100	31.90	158.0	unspecified	0.00	20.90	0.049	gr/dscf	3	0	4.2	0.12	lb/ton BLS	
154.P35 - Smelt Dissolving Tank 2	62.67	99.30	20200	9800	38.90	166.0	28.25	0.00	20.90	0.074	gr/dscf	3	0	6.2	0.18	lb/ton BLS	
157.SDT	67.00	100.03	10655	3961	54.50	183.0	29.76	1.50	21.00	0.1416	gr/dscf	4	0	4.8	0.148	lb/ton BLS	
167.007SDT	63.67	93.26	48779	26486	34.97	264.4	29.94	0.00	20.90	0.0423	gr/dscf	3	0	9.63	0.1337	lb/ton BLS	
171.006	60.00	101.80	7656	3731	41.40	170.9	29.73	0.00	21.00	0.2208	gr/dscf	3	0	7.06	0.26	lb/ton BLS	
171.007	60.00	99.40	14514	8103	33.90	162.3	29.79	0.00	21.00	0.0366	gr/dscf	3	0	2.52	0.09	lb/ton BLS	
171.008	60.00	97.90	33417	15882	42.70	173.3	29.75	0.00	21.00	0.0659	gr/dscf	3	0	8.97	0.11	lb/ton BLS	
173.SDT	73.00	105.50	17148	10732	28.60	136.0	unspecified	0.00	20.90	0.0928	gr/dscf	3	0	8.5	0.2040	lb/ton BLS	
173.SDT	63.33	101.13	15416	9046	32.00	156.7	unspecified	0.00	20.90	0.103	gr/dscf	3	0	7.95	0.18	lb/ton BLS	
175.ST3A	60.00	95.30	31536	17996	33.00	161.7	30.23	0.00	19.90	0.0520	gr/dscf	3	0	8	0.0686	lb/ton BLS	
184.SDT1	64.33	98.82	23573	13475	32.90	162.0	30.01	0.50	19.90	0.0635	gr/dscf	3	0	7.344	0.1647	lb/ton BLS	
184.SDT1	62.33	102.96	22883	11933	38.20	169.0	30.09	0.40	20.00	0.0832	gr/dscf	3	0	8.368	0.1362	lb/ton BLS	
184.SDT2a	64.00	101.89	20400	12984	25.96	157.0	30.07	0.40	20.50	0.0655	gr/dscf	3	0	7.325	0.2328	lb/ton BLS	
184.SDT2a	62.00	106.41	22431	12032	36.38	168.7	30.03	0.40	20.60	0.1082	gr/dscf	3	0	11.146	0.2454	lb/ton BLS	
184.SDT2a	62.00	99.69	19835	9888	40.17	174.3	29.94	0.50	20.20	0.0935	gr/dscf	3	0	7.811	0.172	lb/ton BLS	
184.SDT2b	63.00	101.47	24196	15367	26.00	157.0	30.07	0.50	20.40	0.1279	gr/dscf	3	0	16.788	0.5337	lb/ton BLS	
184.SDT2b	62.67	104.64	25472	15109	30.45	161.0	30.02	0.40	20.40	0.1406	gr/dscf	3	0	18.208	0.4009	lb/ton BLS	
184.SDT2b	62.67	101.72	20865	11433	35.05	166.0	29.81	0.40	19.90	0.0506	gr/dscf	3	0	4.955	0.1091	lb/ton BLS	
188.015SD1	73.33	104.40	20494	11753	32.91	161.2	30.09	0.10	20.34	0.029	gr/dscf	3	0	2.96	0.101	lb/ton BLS	
188.017SD2	72.67	98.40	19215	11406	30.67	158.5	30.09	0.10	20.51	0.029	gr/dscf	3	0	2.85	0.095	lb/ton BLS	
190.R405	65.33	99.70	31226	19113	27.20	158.5	29.46	0.00	20.90	0.0199	gr/dscf	3	0	3.256	0.0724	lb/ton BLS	
196.SN-15	74.33	104.80	25400	8381	58.90	195.3	29.85	0.00	20.90	0.2152	gr/dscf	3	0	15.5	0.1406	lb/ton BLS	
199.004	70.00	96.67	26331	10017	55.90	180.7	29.39	0.00	20.90	0.145	gr/dscf	3	0	12.28	0.1613	lb/ton BLS	
201.SR0034	65.00	91.41	59246	32913	34.45	162.6	29.90	0.00	20.90	0.0535	gr/dscf	3	0	15.09	0.177	lb/ton BLS	
205.010	65.00	98.80	22855	12504	35.30	165.0	unspecified	0.00	20.90	0.052	gr/dscf	3	0	5.6	0.111	lb/ton BLS	
206.G-35	67.00	107.00	17912	10183	26.70	159.6	27.23	0.10	21.00	0.1173	gr/dscf	3	0	10.245	0.1912	lb/ton BLS	
206.G-35	66.00	105.60	20862	11911	27.40	155.3	27.41	0.50	20.70	0.1064	gr/dscf	3	0	10.794	unspecified		

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
206.G-36	71.50	99.70	16406	7178	42.20	168.9	26.97	0.40	21.00	0.2502	gr/dscf	4	0	15.417	0.2697	lb/ton BLS	
206.G-36	64.00	100.40	22036	11115	35.50	155.9	27.28	0.20	20.80	0.114	gr/dscf	3	0	10.864	unspecified		
606.SDT2	67.00	101.10	17146	9428	35.30	164.1	20.07	0.00	21.00	0.0527	gr/dscf	3	0	4.257	0.0892	lb/ton BLS	
606.SDT2	60.00	101.32	17852	10232	32.30	164.0	29.90	0.00	20.90	0.0578	gr/dscf	4	0	5.0723	0.1153	lb/ton BLS	
606.SDT3	62.67	98.33	21903	13608	29.20	154.0	29.98	0.00	20.90	0.0306	gr/dscf	3	0	3.6	0.0880	lb/ton BLS	
606.SDT3	64.67	96.44	15401	10849	17.70	157.0	29.91	0.00	20.90	0.0323	gr/dscf	3	0	3.013	0.077	lb/ton BLS	
606.SDT4	63.00	100.30	33283	19776	30.10	163.0	30.02	0.00	20.90	0.0385	gr/dscf	3	0	6.5	0.0985	lb/ton BLS	
606.SDT4	62.33	94.69	19148	18643	25.50	157.0	29.91	0.00	20.90	0.067	gr/dscf	3	0	10.8	0.1728	lb/ton BLS	
610.10	76.67	105.60	14602	7993	35.10	163.0	29.83	0.13	19.76	0.074	gr/dscf	3	0	5.04	0.079	lb/ton BLS	
610.10	64.00	102.80	13459	7790	32.80	160.9	30.00	0.21	19.60	0.052	gr/dscf	3	0	3.5	0.054	lb/ton BLS	
610.9	66.00	95.00	14573	8399	31.70	160.8	29.70	0.04	20.04	0.078	gr/dscf	3	0	5.59	0.121	lb/ton BLS	
610.9	63.00	96.40	16268	9877	28.60	155.7	29.69	0.10	20.08	0.066	gr/dscf	3	0	5.61	0.123	lb/ton BLS	
613.005	62.33	101.67	16448	7583	44.70	174.0	29.92	0.00	20.90	0.04	gr/dscf	3	0	2.69	unspecified		
613.006	62.00	99.00	17066	8859	38.10	169.0	29.91	0.00	20.90	0.027	gr/dscf	3	0	2.01	unspecified		
613.007	61.67	102.00	17068	8592	39.80	172.0	29.94	0.00	20.90	0.037	gr/dscf	3	0	2.76	unspecified		
613.008	62.67	97.00	18369	10404	33.10	164.0	29.93	0.00	20.90	0.021	gr/dscf	3	0	1.84	unspecified		
145.56	60	97.1	20180	12936	23	152.33	28.83	0	20.9	0.217	gr/dscf	3	0	24.1	0.636	lb/ton BLS	
132.4SDT	60	97.32666667	30482	17566	31.67	163.86	29.8	unspecified	unspecified	0.0198	gr/dscf	3	0	2.964	0.0444	lb/ton BLS	

atter

	Suspect Data		Exclude		Comment	Data analysis notes		Multi-stack sums				
RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
105.EU445D						105.EU445D.PM		6.58	0.1114	1	6.58	0.1114
107.09-P2						107.09-P2.PM		13.03	0.1380	2	13.03	0.1380
109.SDT3						109.SDT3.PM	different years	3.9	0.0790	3	3.9	0.0790
109.SDT4						109.SDT4.PM		4.89	0.0580	4	4.89	0.0580
109.SDT3						109.SDT3.PM	different years	3.72	0.0840	5	3.72	0.0840
111.G-127					SDT operates with SCBR/INC_RF normally, but only the SDT bypass with the SCBR alone was tested as an alternative condition.	111.G-127.PM		3.91	0.0863	6	3.91	0.0863
166.ST01						166.ST01.PM		9.9	0.1441	7	9.9	0.1441
166.ST02						166.ST02.PM		12.9	0.1568	8	12.9	0.1568
174.G-63B						174.G-63B.PM	different years	9.9	0.1953	9	9.9	0.1953
174.G-63C						174.G-63C.PM	separate stacks			10		
174.G-63C						174.G-63C.PM	separate stacks	10	0.071717172	11	10	0.071717172
174.G-63B						174.G-63B.PM	different years	11.5	0.2519	12	11.5	0.2519
174.G-63C						174.G-63C.PM	separate stacks			13		
174.G-63C						174.G-63C.PM	separate stacks	9.26	0.066284896	14	9.26	0.066284896
124.020						124.020.PM		5.541	0.0951	15	5.541	0.0951
124.021						124.021.PM		5.393	0.0929	16	5.393	0.0929
340.007						340.007.PM	different years	7.74	0.1611	17	7.74	0.1611
340.007						340.007.PM	different years	8.19	0.1647	18	8.19	0.1647
100.109					Stack moisture: AVERAGE(65.1,60.6,59.8)=61.83, but used lower 53.2 at sat.	100.109.PM		3.066666667	0.0533	19	3.066666667	0.0533
112.AA-101		smelt dissolving tank rebuilt in 2009 following testing.				112.AA-101.PM		12.98	0.1108	20	12.98	0.1108
114.U508						114.U508.PM		13.82	0.1300	21	13.82	0.1300
115.SM01						115.SM01.PM	separate stacks			22		
115.SM01						115.SM01.PM	separate stacks	6.468	0.07392	23	6.468	0.07392
116.004						116.004.PM	different years	7.28	0.0763	24	7.28	0.0763
116.004						116.004.PM	different years	8.81	0.0930	25	8.81	0.0930
119.EQT005					pdf pg 37 references unit-operating data, but no data are included; however, they did provide "Normal Operating Rate" on pdf pg. 52 but it is dated 7/8/03	119.EQT005.PM		9.998	unspecified	26	9.998	unspecified
119.EQT011					pdf pg 37 references unit-operating data, but no data are included; however, they did provide "Normal Operating Rate" on pdf pg. 52 but it is dated 7/8/03. Test report summary said "gr/dscf @ 8% O2" but the calculations in in the appendix confirmed actual %O2.	119.EQT011.PM		12.209	unspecified	27	12.209	unspecified
120.M3					No concentration data provided	120.M3.PM		not provided	0.0500	28	not provided	0.0500
126.SDT						126.SDT.PM		8.355	0.1619	29	8.355	0.1619
127.SDT1						127.SDT1.PM		3.89	0.0547	30	3.89	0.0547
131.SDT4N					SDT 4 has two stacks (north and south)	131.SDT4N.PM				31		
131.SDT4S					SDT 4 has two stacks (north and south)	131.SDT4S.PM		6	0.0944	32	6	0.0944
131.SDT5					(1) 2003 report not found--used 2004 report instead. (2) "After completion of Run 3, filter destroyed during transfer to trailer. Run 3 sample invalid" (pdf pg 524) Run 3 data not included in report	131.SDT5.PM		3.8	0.0604	33	3.8	0.0604
132.4SDT						132.4SDT.PM		2.079	0.0328	34	2.079	0.0328
132.5SDT						132.5SDT.PM		10.141	0.1370	35	10.141	0.1370
136.EU 031						136.EU 031.PM		11.5	0.1000	36	11.5	0.1000
137.204						137.204.PM		9.5	0.1000	37	9.5	0.1000
138.003						138.003.PM		4.48	0.0786	38	4.48	0.0786

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
142.P7413		New stack and scrubber specific to SDT-1 installed during 2011.			Emissions are from 2 SDTs with a combined stack.	142.P7413.PM		7.97	0.1080	39	7.97	0.1080
146.10					SDT has 2 stacks. Test report has 0.0722 lb/TBLS - twice the value calculated here. However, the total for both vents 0.0602 lb/TBLS matches our calculated totals. Use our calculated emission factors.	146.10.PM	separate stacks			40		
146.10					SDT has 2 stacks. Test report has 0.0480 lb/TBLS - twice the value calculated here. However, the total for both vents 0.0602 lb/TBLS matches our calculated totals. Use our calculated emission factors.	146.10.PM	separate stacks	4.615	0.060130329	41	4.615	0.060130329
146.17						146.17.PM		6.578	0.0575	42	6.578	0.0575
147.161			Yes		Facility performed 2 45-minute runs for each, and did not provide detailed report (only provided summary tables)	147.161.PM		5.71	0.0993	43	5.71	0.0993
147.244			Yes		Facility performed 2 45-minute runs for each, and did not provide detailed report (only provided summary tables)	147.244.PM		5.15	0.1358	44	5.15	0.1358
148.002						148.002.PM		5.3	0.0909	45	5.3	0.0909
148.008					4 runs were condcued but Run #2 was not included in results average due to expectation of final calculated isokinetic sample rate exceeding 110%.	148.008.PM		12.04	0.1481	46	12.04	0.1481
149.P005						149.P005.PM		7	0.1024	47	7	0.1024
150.CREC-2b						150.CREC-2b.PM	Separate stacks: The smelt dissolving tank emission unit id CREC-2 has two identical stacks (CREC-2a and CREC-2b) and each stack has an identical scrubber (SCRBSTa and SCRBSTb).			48		
150.CREC-2a						150.CREC-2a.PM	Separate stacks: The smelt dissolving tank emission unit id CREC-2 has two identical stacks (CREC-2a and CREC-2b) and each stack has an identical scrubber (SCRBSTa and SCRBSTb).	8.3	0.096	49	8.3	0.096
154.P38 - Smelt Dissolving Tank 3			Yes	Failed isokinetics	"Test 1 was not included in the average results due to the scrubber being down"	154.P38 - Smelt Dissolving Tank 3.PM		1.265	0.0370	50	1.265	0.0370
155.SDT					"Runs 1 and 3 were voided due to sub-isokinetic sampling rates. Additional test runs were compmleted in order to obtain three acceptable isokinetic sampling rate test runs"	155.SDT .PM		6.95	0.0890	51	6.95	0.0890
156.SMEL18						156.SMEL18.PM	different dates within same year	3.77	0.0889	52	3.77	0.0889
156.SMEL18						156.SMEL18.PM	different dates within same year	3.83	0.0901	53	3.83	0.0901
156.SMEL19						156.SMEL19.PM	different dates within same year	3.4	0.0572	54	3.4	0.0572
156.SMEL19			Yes	Failed isokinetics		156.SMEL19.PM	different dates within same year	4.42	0.0800	55	4.42	0.0800
156.SMEL19						156.SMEL19.PM	different dates within same year	6.34	0.0954	56	6.34	0.0954
156.SMEL19			Yes	Failed isokinetics		156.SMEL19.PM	different dates within same year	5.54	0.0963	57	5.54	0.0963
156.SMEL19			Yes	Failed isokinetics		156.SMEL19.PM	different dates within same year	3.79	0.0689	58	3.79	0.0689
156.SMEL22			Yes	Failed isokinetics		156.SMEL22.PM	different dates within same year	4.63	0.0522	59	4.63	0.0522
156.SMEL22						156.SMEL22.PM	different dates within same year	4.32	0.0501	60	4.32	0.0501
156.SMEL22			Yes	Failed isokinetics		156.SMEL22.PM	different dates within same year	3.48	0.0419	61	3.48	0.0419
156.SMEL22						156.SMEL22.PM	different dates within same year	2.89	0.0483	62	2.89	0.0483
156.SMEL22						156.SMEL22.PM	different dates within same year	3.85	0.0564	63	3.85	0.0564
162.381C						162.381C.PM		7.2	0.1435	64	7.2	0.1435
162.382B						162.382B.PM		11.4	0.1071	65	11.4	0.1071
163.SD1902					(1) Only provided portion of test report, could not determine filter temperature. (2) Did not have BLS throughput to calculate emission factor.	163.SD1902.PM		1.78	unspecified	66	1.78	unspecified
163.SD1903					(1) Only provided portion of test report, could not determine filter temperature. (2) Did not have BLS throughput to calculate emission factor.	163.SD1903.PM		2.82		67	2.82	

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
163.SD2906					Only provided portion of test report, could not determine filter temperature	163.SD2906.PM		9.69	0.1486	68	9.69	0.1486
164.P08					No production data provided	164.P08.PM		2.0373		69	2.0373	
164.P10					No production data provided	164.P10.PM		3.0941		70	3.0941	
165.000008						165.000008.PM		8.64	0.0945	71	8.64	0.0945
165.000014						165.000014.PM		5.38	0.1086	72	5.38	0.1086
169.06					In summary, gr/dscf were listed at 8% O2. Pulled uncorrected gr/dscf from appendix.	169.06.PM		9.605	0.1251	73	9.605	0.1251
169.07					In summary, gr/dscf were listed at 8% O2. Pulled uncorrected gr/dscf from appendix.	169.07.PM		13.06	0.1651	74	13.06	0.1651
172.ST01					Only provided portion of test report (3 of 37 pages), could not determine test method or filter temperature from those 3 pages. Emission factor in desired units of measure could not be developed.	172.ST01.PM		3.33		75	3.33	
175.ST2A					4 runs total--runs 2-4 used for averages (no explanation included for exclusion of run 1)	175.ST2A.PM		6.03	0.1951	76	6.03	0.1951
177.EU0805						177.EU0805.PM		2.864	0.0343	77	2.864	0.0343
179.SDT						179.SDT.PM	different years	7.33	0.0787	78	7.33	0.0787
179.SDT						179.SDT.PM	different years	6.56	0.0756	79	6.56	0.0756
180.D002, D907					EmissionUnitID: No. 3 SDT (D002) and salt cake mix tank (D907) have combined exhausts	180.D002, D907.PM		3.5	0.0471	80	3.5	0.0471
181.11					Compliance test. "Run 1 isokinetic was out of range and an additional run was made. The "AVG" column excludes the Run1. A high isokinetic sample tends to be biased low"	181.11.PM	Separate conditions	10.6	0.1830	81	10.6	0.1830
181.11					Test condition 2 included only 1 run and was not included in test report.	181.11.PM	Separate conditions	6.9	0.1220	82	6.9	0.1220
181.11					Avg diff. pressure during testing was 7.6.	181.11.PM	different year	6.202	0.1080	83	6.202	0.1080
181.51	M	Exceeds NSPS limit of 0.2 lb/ton BLS. Installed in 1990 and subject to NSPS. Achieved compliance with condition 2.			Target P-drop for condition 1 was 6.0.	181.51.PM	Separate conditions	11.6	0.2288	84	11.6	0.2288
181.51					Compliance test. Target P-drop for condition 2 was 7.0 (avg as measured). Used production rate and emission factor from appendix (different - slightly higher EF - than in summary sheet).	181.51.PM	Separate conditions	7.4	0.1600	85	7.4	0.1600
181.51	M	Exceeds NSPS limit of 0.2 lb/ton BLS. Installed in 1990 and subject to NSPS. Achieved compliance with condition 2.			Target P-drop for condition 3 was 6.5 (but 7.1 was the average)	181.51.PM	Separate conditions	10.7	0.2140	86	10.7	0.2140
181.51					Avg diff. pressure during testing was 7.8.	181.51.PM	different year	5.24	0.1090	87	5.24	0.1090
182.110					A 4th run was performed to "establish the unit operating range." The 4th run was not included in the calculation of the averages.	182.110.PM		4.6491	0.0700	88	4.6491	0.0700
185.05						185.05.PM	different dates within same year	3.474	0.0653	89	3.474	0.0653
185.05						185.05.PM	different dates within same year	4.588	0.0883	90	4.588	0.0883
185.05						185.05.PM	different dates within same year	4.264333333	0.0820	91	4.264333333	0.0820
185.05						185.05.PM	different dates within same year	2.571	0.0493	92	2.571	0.0493
185.05						185.05.PM	different dates within same year	2.968666667	0.0567	93	2.968666667	0.0567
185.05						185.05.PM	different dates within same year	4.161666667	0.0773	94	4.161666667	0.0773
186.RB17						186.RB17.PM	different years	10.28	0.0801	95	10.28	0.0801
186.RB17						186.RB17.PM	different years	12	0.0900	96	12	0.0900
189.SN27			M	1 run <60 min		189.SN27.PM		5.8	0.0500	97	5.8	0.0500
189.SN28						189.SN28.PM		11.41	0.0990	98	11.41	0.0990
190.R404						190.R404.PM	different years	2.45	0.0527	99	2.45	0.0527
190.R406						190.R406.PM		10.6	0.1440	100	10.6	0.1440
196.SN-08North					There are 2 separate RB #2 SDTs (North and South) per flow diagram, not separate stacks	196.SN-08North.PM		7.12	0.089936842	101	7.12	0.089936842
196.SN-08South					There are 2 separate RB #2 SDTs (North and South) per flow diagram, not separate stacks	196.SN-08South.PM		5.61	0.070863158	102	5.61	0.070863158
198.020						198.020.PM		10.42	0.0930	103	10.42	0.0930

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
200.007_8, 007_9					Emissions are from 2 SDTs with a combined vent.	200.007_8, 007_9.PM		6.5	0.0548	104	6.5	0.0548
202.Smelt Dissolving Tank EU322					Reported filterable PM only in this table (did not include CPM)	202.Smelt Dissolving Tank EU322.PM		4.55	0.0790	105	4.55	0.0790
203.2DTScr				Only 1 run	Emission factor could not be calculated in desired units.	203.2DTScr .PM		0.6	unspecified	106	0.6	unspecified
203.3DTScr						203.3DTScr.PM		5.1	0.0700	107	5.1	0.0700
207.108					Did not provide handwritten data sheets and did not report filter temperature	207.108.PM		1.92	0.0900	108	1.92	0.0900
226.SDT1N						226.SDT1N.PM		5.028	0.0611	109	5.028	0.0611
226.SDT1S						226.SDT1S.PM		5.71	0.0680	110	5.71	0.0680
226.SDT2						226.SDT2.PM		4.4981	0.0855	111	4.4981	0.0855
240.RF02						240.RF02.PM		6.3	0.0942	112	6.3	0.0942
240.RF05						240.RF05.PM		7.51	0.0628	113	7.51	0.0628
240.RF06						240.RF06.PM		7.08	0.0592	114	7.08	0.0592
242.AA-012						242.AA-012.PM		10.6	0.0846	115	10.6	0.0846
243.R403	yes	Report stated TRS and PM tests were concurrent, but production data is much higher for TRS than for PM				243.R403.PM		5.17	0.1463	116	5.17	0.1463
243.R408						243.R408.PM		18.77	0.1563	117	18.77	0.1563
531.RF10						531.RF10.PM		6.5	0.0434	118	6.5	0.0434
600.G0805						600.G0805.PM		4.81	0.0562	119	4.81	0.0562
600.G0807						600.G0807.PM		4.782	0.0460	120	4.782	0.0460
615.25						615.25.PM		6.58	0.1170	121	6.58	0.1170
617.P21						617.P21.PM		1.6562	0.0473	122	1.6562	0.0473
208228535.002						208228535.002.PM	different years			123		
208228535.002						208228535.002.PM	different years	10.64	0.101	124	10.64	0.101
208228535.008						208228535.008.PM		8.81	0.0720	125	8.81	0.0720
105.EU445D	M	ODEQ M5 test				105.EU445D.PM		7.01	0.1089	126	7.01	0.1089
105.EU445BEast	M	ODEQ M5 test			Separate stacks: 3 East Smelt Tank Vent.	105.EU445BEast.PM	Separate stacks			127		
105.EU445BWest	M	ODEQ M5 test			Separate Stacks: 3 West Smelt Tank Vent.	105.EU445BWest.PM	Separate stacks	8.96	0.1481	128	8.96	0.1481
121.000009						121.000009.PM	different years	2.2	0.0641	129	2.2	0.0641
121.000010						121.000010.PM	different years	3.3	0.0965	130	3.3	0.0965
121.000009						121.000009.PM	different years	4.3	0.1103	131	4.3	0.1103
121.000010						121.000010.PM	different years	2.5	0.0641	132	2.5	0.0641
102.SDTV10						102.SDTV10.PM		4.71	0.0388	133	4.71	0.0388
178.08T014						178.08T014.PM		8.3	0.1600	134	8.3	0.1600
178.08T015						178.08T015.PM		7.7	0.1500	135	7.7	0.1500
190.R404						190.R404.PM	different years	3.158	0.0668	136	3.158	0.0668
105.EU445D	M	ODEQ M5 test				105.EU445D.PM	different dates within same year	8.4	0.1304	137	8.4	0.1304

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
105.EU445D	M	ODEQ M5 test			Recalculated emission factor. Emission factor in the test report was erronously based on the steam production rate rather than BLS firing rate (both provided in MPPH)	105.EU445D.PM	different dates within same year	6.79	0.1147	138	6.79	0.1147
105.EU445D	M	ODEQ M5 test				105.EU445D.PM	different dates within same year	6.51	0.1126	139	6.51	0.1126
105.EU445D	M	ODEQ M5 test				105.EU445D.PM	different dates within same year	5.73	0.1065	140	5.73	0.1065
178.08T015						178.08T015.PM		3.06	0.0508	141	3.06	0.0508
178.08T014						178.08T014.PM		5.78	0.0959	142	5.78	0.0959
130.11					Run 1 was excluded due to sub-isokinetic sampling during test run.	130.11.PM		7.24	0.1494	143	7.24	0.1494
130.6						130.6.PM		4.56	0.1505	144	4.56	0.1505
130.7						130.7.PM		7.1	0.2380	145	7.1	0.2380
135.007-1, 007-2					Combined East and West stack values only given.	135.007-1, 007-2.PM	Combined stacks given	4.8	0.0400	146	4.8	0.0400
137.157					Only 2 runs in report	137.157.PM		1.005	0.0370	147	1.005	0.0370
137.157						137.157.PM	appears to be retest	0.862	0.0317	148	0.862	0.0317
139.03					Qa and Ps were not found in report.	139.03.PM		7.4	0.1600	149	7.4	0.1600
140.57						140.57.PM	Different dates and methods (M5)	3.85	0.0730	150	3.85	0.0730
140.57	M	ODEQ M5 test				140.57.PM	Different dates and methods (ORDEQ5)	4.16	0.0790	151	4.16	0.0790
140.57	M	ODEQ M5 test				140.57.PM		5.55	0.1049	152	5.55	0.1049
142.P7236						142.P7236.PM		10.31	0.1550	153	10.31	0.1550
143.7005						143.7005.PM		0.6	0.0356	154	0.6	0.0356
143.7015						143.7015.PM		0.7	0.0400	155	0.7	0.0400
143.7025						143.7025.PM		0.9	0.0300	156	0.9	0.0300
152.04						152.04.PM		14.87	0.2243	157	14.87	0.2243
154.P32 - Smelt Dissolving Tank 1						154.P32 - Smelt Dissolving Tank 1.PM	different dates within same year	3.7	0.1000	158	3.7	0.1000
154.P32 - Smelt Dissolving Tank 1						154.P32 - Smelt Dissolving Tank 1.PM	different dates within same year	5.5	0.1500	159	5.5	0.1500
154.P35 - Smelt Dissolving Tank 2					Parameters for No. 2 Smelt Dissolving Tank were missing from appendix. Values given are from summary table.	154.P35 - Smelt Dissolving Tank 2.PM	different dates within same year	4.2	0.1200	160	4.2	0.1200
154.P35 - Smelt Dissolving Tank 2						154.P35 - Smelt Dissolving Tank 2.PM	different dates within same year	6.2	0.1800	161	6.2	0.1800
157.SDT						157.SDT.PM		4.8	0.1480	162	4.8	0.1480
167.007SDT						167.007SDT.PM		9.63	0.1337	163	9.63	0.1337
171.006						171.006.PM		7.06	0.2600	164	7.06	0.2600
171.007						171.007.PM		2.52	0.0900	165	2.52	0.0900
171.008						171.008.PM		8.97	0.1100	166	8.97	0.1100
173.SDT						173.SDT.PM	different dates	8.5	0.2040	167	8.5	0.2040
173.SDT						173.SDT.PM	different dates	7.95	0.1800	168	7.95	0.1800
175.ST3A						175.ST3A.PM		8	0.0686	169	8	0.0686
184.SDT1						184.SDT1.PM	different dates (test report did not indicate why each tank was tested twice)	7.344	0.1647	170	7.344	0.1647
184.SDT1						184.SDT1.PM	different dates (test report did not indicate why each tank was tested twice)	8.368	0.1362	171	8.368	0.1362
184.SDT2a						184.SDT2a.PM	different dates (test report did not indicate why each tank was tested twice)	7.325	0.2328	172	7.325	0.2328
184.SDT2a						184.SDT2a.PM	different dates (test report did not indicate why each tank was tested twice)	11.146	0.2454	173	11.146	0.2454
184.SDT2a						184.SDT2a.PM	different dates	7.811	0.1720	174	7.811	0.1720
184.SDT2b						184.SDT2b.PM	different dates (test report did not indicate why each tank was tested twice)	16.788	0.5337	175	16.788	0.5337
184.SDT2b						184.SDT2b.PM	different dates (test report did not indicate why each tank was tested twice)	18.208	0.4009	176	18.208	0.4009
184.SDT2b						184.SDT2b.PM	different dates	4.955	0.1091	177	4.955	0.1091
188.015SD1						188.015SD1.PM		2.96	0.1010	178	2.96	0.1010
188.017SD2						188.017SD2.PM		2.85	0.0950	179	2.85	0.0950
190.R405						190.R405.PM		3.256	0.0724	180	3.256	0.0724
196.SN-15						196.SN-15.PM		15.5	0.1406	181	15.5	0.1406
199.004						199.004.PM		12.28	0.1613	182	12.28	0.1613
201.SR0034						201.SR0034.PM		15.09	0.1770	183	15.09	0.1770
205.010						205.010.PM		5.6	0.1110	184	5.6	0.1110
206.G-35						206.G-35.PM	different dates	10.245	0.1912	185	10.245	0.1912
206.G-35						206.G-35.PM	different dates	10.794	unspecified	186	10.794	unspecified

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
206.G-36						206.G-36.PM	different dates	15.417	0.2697	187	15.417	0.2697
206.G-36						206.G-36.PM	different dates	10.864	unspecified	188	10.864	unspecified
606.SDT2						606.SDT2.PM	different dates	4.257	0.0892	189	4.257	0.0892
606.SDT2			Yes	boiler main safety valve opened during run 2 and boiler had to reduce operation rate. Run 2 was not used in the calculations and an additional run was conducted at permitted capacity.		606.SDT2.PM	different dates	5.072333333	0.1153	190	5.072333333	0.1153
606.SDT3						606.SDT3.PM	different dates	3.6	0.0880	191	3.6	0.0880
606.SDT3						606.SDT3.PM	different dates	3.013	0.0770	192	3.013	0.0770
606.SDT4						606.SDT4.PM	different dates	6.5	0.0985	193	6.5	0.0985
606.SDT4	yes	Run 1 probe rinse was discolored, high wt of the rinse was likely due to impacting something in the stack.				606.SDT4.PM	different dates	10.8	0.1728	194	10.8	0.1728
610.10					Weak wash scrubber flow	610.10.PM	Separate conditions: weak wash scrubber	5.04	0.0790	195	5.04	0.0790
610.10					Water wash scrubber flow	610.10.PM	Separate conditions: water scrubber	3.5	0.0540	196	3.5	0.0540
610.9					Weak wash scrubber flow	610.9.PM	Separate conditions: weak wash scrubber	5.59	0.1210	197	5.59	0.1210
610.9					Water wash scrubber flow	610.9.PM	Separate conditions: water scrubber	5.61	0.1230	198	5.61	0.1230
613.005					No TRS data given	613.005.PM		2.69	unspecified	199	2.69	unspecified
613.006					No TRS data given	613.006.PM		2.01	unspecified	200	2.01	unspecified
613.007					No TRS data given	613.007.PM		2.76	unspecified	201	2.76	unspecified
613.008					No TRS data given	613.008.PM		1.84	unspecified	202	1.84	unspecified
145.56					summary pages only	145.56.PM		24.1	0.6360	203	24.1	0.6360
132.4SDT						132.4SDT.PM		2.964	0.0444	204	2.964	0.0444

Appendix D

Total Reduced Sulfur Emissions Data for Smelt Dissolving Tanks

Appendix D: Pulp and Paper Emissions Test Data Spreadsheet for NSPS Review - SDT Total Reduced Sulfur

General Information

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2010_TRS_Source_Test_IP_No_4_Smelt_Disolving_Tank_Springfield.pdf	105	NEI45182	EU445D	105.EU445D	105--CD 456-110, CD445-480, and CD 445-447	SCBR		Kraft, Secondary	SDT (Kraft)
SECTION 2.pdf	107	NEI47074	09-P2	107.09-P2	107--09-P2	SCBR		Kraft	SDT (Kraft)
H, I.pdf	109	NEI32869A	SDT3	109.SDT3	109--ST3SBR	SCBR		Kraft	SDT (Kraft)
NEI32869 TRS EMISSION TEST OCT 2008 - APP F, G, H, I.pdf	109	NEI32869A	SDT4	109.SDT4	109--ST4SBR	SCBR		Kraft	SDT (Kraft)
NEI45206_P&P Survey_2-2011 Recovery Furnace & Smelt Dissolvi.pdf	111	NEI45206	G-127	111.G-127	111--STWS and ES 455-001	SCBR	NA	Kraft	SDT (Kraft)
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	ST01	166.ST01	166--ST1 Scrubber	SCBR		Kraft	SDT (Kraft)
P_P_ICR Part III_RTI166_InternationalPaper-GeorgetownMill_NEI_41314_LK1and2_RB1and2_ST1and2_PM_July 2009.PDF	166	NEI41314	ST02	166.ST02	166--ST2 Scrubber	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1)2.pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI174_International Paper-Riegelwood M (1)2.pdf	174	NEI40247	G-63C	174.G-63C	174--G-63C EWSCRUB	SCBR		Kraft	SDT (Kraft)
SDTV No. 1 2010 Update	124	NEI8278	020	124.020	124--sdtsbr020	SCBR		Kraft	SDT (Kraft)
0910-29 SDTV No. 2	124	NEI8278	021	124.021	124--sdtsbr021	SCBR		Kraft	SDT (Kraft)
NEI40686_RTI100_DomtarJohnsonburgMill_Smelt DissolvingTank Test_August2001.pdf	100	NEI40686	109	100.109	100--C109	SCBR		Kraft	SDT (Kraft)
112_TR2009_Weyerhaeuser Final Report.pdf	112	NEI34064	AA-101	112.AA-101	112--Scrubber	SCBR		Kraft	SDT (Kraft)
NEI26506_SDT_December_2009.pdf	114	NEI26506	U508	114.U508	114--CDU5	SCBR		Kraft	SDT (Kraft)
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	SM01	115.SM01	115--SMO1 SCBR	SCBR	Good Combustion Practices	Kraft	SDT (Kraft)
Smelt Dissovlving Tank and Recovery Boiler Part 1.pdf	115	NEI26476	SM01	115.SM01	115--SMO1 SCBR	SCBR	Good Combustion Practices	Kraft	SDT (Kraft)
NEI8619_July 2004 Stack Test Report.pdf	116	NEI8619	004	116.004	116--SDTSCR	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
No 20 SDT Dec 2010.pdf	119	NEI46814	EQT005	119.EQT005	119--SCBR04	SCBR		Kraft, Secondary	SDT (Kraft)
NEI 42317 Hopewell VA Dec 2009 SDT PM and TRS.pdf	126	NEI42317	SDT	126.SDT	126--SDTScr	SCBR		Kraft	SDT (Kraft)
NEI7933_PIII - Smelt Dissolving Tank Vent - TRS - October 26, 2010.pdf	127	NEI7933	SDT1	127.SDT1	127--E111A	SCBR		Kraft, Secondary	SDT (Kraft)
2010 - SDT(PM-TRS) + RB10(PM-Hg).pdf	136	NEI12368	EU 031	136.EU 031	136--CE 017	SCBR		Kraft	SDT (Kraft)
2010-09-15 5SDT PM-TRS Test Report.pdf	137	NEI26581	204	137.204	137--PC(204)	SCBR		Kraft	SDT (Kraft)
TRS and PM Smelt Dissolving Tank SN-03 September 2010.pdf	138	NEI18652	003	138.003	138--SCRB SDT1, SCRB SDT2	PBSCBR		Kraft	SDT (Kraft)
RTI1#QKT.PDF	142	NEI41552	P7413	142.P7413	142--CD7217	SCBR		Kraft, Secondary	SDT (Kraft) (2)
NEI759 TSP Testing 2008 part 1.pdf, NEI759 TSP Testing 2008 part 2.pdf	146	NEI759	10	146.10	146--SDT101	SCBR		Kraft	SDT (Kraft)
NEI759 TSP Testing 2008 part 1.pdf, NEI759 TSP Testing 2008 part 2.pdf	146	NEI759	10	146.10	146--SDT101	SCBR		Kraft	SDT (Kraft)
NEI759 TSP Testing 2008 part 1.pdf, NEI759 TSP Testing 2008 part 2.pdf	146	NEI759	17	146.17	146--SDT201	SCBR		Kraft	SDT (Kraft)
NEI46931_12 17 2010 1SDT Compliance Test Report.pdf	148	NEI46931	002	148.002	148--SDT1SCB	SCBR		Kraft, Secondary	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI46931_8 31 2010 & 9 28, 30 2010 No. 1 & No. 2 SDT Compliance Test Report.pdf	148	NEI46931	008	148.008	148--SDT2SCB	SCBR		Kraft, Secondary	SDT (Kraft)
NEI40488 B011, P001, P005 - 2009 Title V Compliance Test Rep.pdf	149	NEI40488	P005	149.P005	149--SC-502	SCBR		Kraft	SDT (Kraft)
NEI40488 B011, P001, P005 - 2009 Title V Compliance Test Rep.pdf	149	NEI40488	P005	149.P005	149--SC-502	SCBR		Kraft	SDT (Kraft)
150 NewPage Rumford TRC 2011 Report_Smelt Tank_TRS.pdf	150	NEI6273	CREC-2a	150.CREC-2a	150--SCRBSTa	SCBR		Kraft, Mechanical	SDT (Kraft)
150 NewPage Rumford TRC 2011 Report_Smelt Tank_TRS.pdf	150	NEI6273	CREC-2b	150.CREC-2b	150--SCRBSTb	SCBR		Kraft, Mechanical	SDT (Kraft)
NEI46739 SDT3 TRS April_May 2008.pdf	154	NEI46739	P38 - Smelt Dissolving Tank 3	154.P38 - Smelt Dissolving Tank 3	154--C12	PBSCBR		Kraft	SDT (Kraft)
NEI33883 - Smelt Dissolving Tank - March 3, 2011 - Compliance Test Report.pdf	155	NEI33883	SDT	155.SDT	155--SDT SCRUBBER	PBSCBR		Kraft, Mechanical	SDT (Kraft)
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 1 smelt dis tank total sulfur.pdf	162	NEI46760	381C	162.381C	162--381CSCRUB	SCBR		Kraft	SDT (Kraft)
P_P ICR Part III_RTI162_InternationalPaper-EastoverMill_NEI46760_no 2 smelt dis tank total sulfur.pdf	162	NEI46760	382B	162.382B	162--382BSCRUB	SCBR		Kraft	SDT (Kraft)
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Recovery Furnace and Smelt Dissolving Tanks testing.pdf	163	NEI8560	SD1902	163.SD1902	163--SD1SC1	SCBR		Kraft, Secondary	SDT (Kraft)
RTI163_International Paper - Prattville Mill_NEI8560_No 1 Recovery Furnace and Smelt Dissolving Tanks testing.pdf	163	NEI8560	SD1903	163.SD1903	163--SD1SC2	SCBR		Kraft, Secondary	SDT (Kraft)
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (6).PDF	175	NEI26514	ST2A	175.ST2A	175--ST2B	SCBR		Kraft	SDT (Kraft)
RecBoiler_WasteBoiler_SmeltTank_LimeKiln_Compliancetest2011_Part1.pdf	177	NEI33887	EU0805	177.EU0805	177--CD0801	SCBR		Kraft	SDT (Kraft)
RTI179_Rock-TennDemopolis_NEI45474_PP Survey_RFSDTTest2009.pdf	179	NEI45474	SDT	179.SDT	179--SDTSCR	SCBR		Kraft	SDT (Kraft)
NEI26471_No3_Smelt_Tank_PM_TRS_2009-0317[2].pdf	180	NEI26471	D002, D907	180.D002, D907	180--D02S	SCBR		Kraft, Secondary	SDT (Kraft)
Source 110 Test Report Feb 2010.pdf	182	NEI7181	110	182.110	182--C10/SCR1	SCBR		Kraft	SDT (Kraft)
Smelt.pdf	186	NEI18334	RB17	186.RB17	186--SMSCR	SCBR		Kraft	SDT (Kraft)
GP Crossett Paper Smelt Dissolving Tank Compliance 2010.pdf	189	NEI54342	SN27	189.SN27	189--SN27S	SCBR		Kraft	SDT (Kraft)
GP Crossett Paper Smelt Dissolving Tank Compliance 2010.pdf	189	NEI54342	SN28	189.SN28	189--SN28S	SCBR		Kraft	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 SDTV2 & SDTV3 TRS 03-23-2010.pdf	190	NEI26491	R405	190.R405	190--C405	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Georgia-Pacific Cedar Springs NEI26491 P3 SDTV3 TRS 03-25-2011 Compliance Test.pdf	190	NEI26491	R406	190.R406	190--C406	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
2010 Domtar Compliance Testing Part 1 of 6.pdf and 2010 Domtar Compliance Testing Part 2 of 6.pdf	196	NEI18660	SN-08North	196.SN-08North	196--SN-08	SCBR	Scrubber	Kraft	SDT (Kraft)
2010 Domtar Compliance Testing Part 1 of 6.pdf	196	NEI18660	SN-08South	196.SN-08South	196--SN-08	SCBR	Scrubber	Kraft	SDT (Kraft)
2010 Domtar Compliance Testing Part 1 of 6.pdf	196	NEI18660	SN-15	196.SN-15	196--SN-15	SCBR	Scrubber	Kraft	SDT (Kraft)
NEI41565 Smelt Tank Particulate Sampling March 1995.pdf	198	NEI41565	020	198.020	198--020_CD	SCBR		Kraft, Mechanical, Secondary	SDT (Kraft)
NEI47077 BOWATER CATAWBA MAY 11 COMP REPORT.pdf	200	NEI47077	007_8, 007_9	200.007_8, 007_9	200--2511C	SCBR		Kraft, Mechanical	SDT (Kraft)
1106-104_Boise White Paper_SDT Report.pdf	202	NEI12411	Smelt Dissolving Tank EU322	202.Smelt Dissolving Tank EU322	202--CE322	SCBR	5 gph 50% caustic to reduce TRS; started recycling scrubber overflow in 2010 to SDT to reduce caustic and energy losses to sewer.	Kraft	SDT (Kraft)
2010 12 2SDTV TRS.pdf	203	NEI42410	2DTScr	203.2DTScr	203--2DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
NEI33023_SDT3_1992_TRS.pdf	226	NEI33023	SDT2	226.SDT2	226--SDT3S	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
Rayonier Jesup SDT5 PM &TRS test 05_25_10.pdf	240	NEI26526	RF02	240.RF02	240--RFC2	SCBR		Kraft	SDT (Kraft)
Rayonier Jesup SDT6 PM &TRS test 03_17_10.pdf	240	NEI26526	RF05	240.RF05	240--RFC4	SCBR		Kraft	SDT (Kraft)
Rayonier Jesup SDT6 PM &TRS test 03_17_10.pdf	240	NEI26526	RF06	240.RF06	240--RFC5	SCBR		Kraft	SDT (Kraft)
NEI 34066 Emission Test RB-LK- SDT 2010.pdf	242	NEI34066	AA-012	242.AA-012	242--UT-7	SCBR		Kraft	SDT (Kraft)
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R403	243.R403	243--RSS5	SCBR		Kraft	SDT (Kraft)
8196_2009 Source Compliance Test Report.pdf	243	NEI8196	R408	243.R408	243--RSS6	SCBR		Kraft	SDT (Kraft)
P_P_ICR Part III_RTI531_InternationalPaper-Savnnah Mill (6).pdf	531	NEI8186	RF10	531.RF10	531--AP15	SCBR		Kraft, Secondary	SDT (Kraft)
RTI600_InternationalPaper-CourtlandMill-NEI18357 NOV 07 2RF-.pdf	600	NEI18357	G0805	600.G0805	600--08-CD-02-004	SCBR		Kraft	SDT (kraft)
RTI600_InternationalPaper-CourtlandMill-NEI18357 MAY 08 3RF-.pdf	600	NEI18357	G0807	600.G0807	600--08-CD-03-003	SCBR		Kraft	SDT (kraft)
ODEQ-Final-Report-SDT-TSP-TRS-10-20-09.pdf	615	NEI40554	25	615.25	615--SDTSC1	SCBR		Kraft	SDT (Kraft)
2011_0315-17.2.pdf	617	NEI42695	P21	617.P21	617--C08	PBSCBR		Kraft	SDT (Kraft)
NEI18373_002_Particulate,SO2,andTRS_2007.pdf	208228535	NEI18373	002	208228535.002	208228535--X002	SCBR		Unknown (Kraft)	SDT (Kraft)
NEI18373_008_Particulate,SO2, and TRS_2006.pdf	208228535	NEI18373	008	208228535.008	208228535--X013	SCBR		Unknown (Kraft)	SDT (Kraft)
NEI42341A_PIII_D2a_2011-Q1 LK-RB10-SDTV10-HFB11.pdf	102	NEI42341A	SDTV10	102.SDTV10	102--SDTV-S	SCBR		Kraft	SDT (Kraft)
2010 RB & SDT TRS #102.pdf	135	NEI33118	007-1, 007-2	135.007-1, 007-2	135--007-4, 007-5	SCBR		Kraft	SDT (Kraft)
EPA M16A 052011.pdf	140	NEI13340	57	140.57	140--461-213	PBSCBR		Kraft	SDT (Kraft)
RTI1#CGM.pdf	142	NEI41552	P7236	142.P7236	142--CD-7236	SCBR		Kraft, Secondary	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3SDT TRS_July 2009	143	NEI26504	7005	143.7005	143--C012	SCBR		Kraft	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3SDT TRS_July 2009	143	NEI26504	7015	143.7015	143--C014	SCBR		Kraft	SDT (Kraft)
NEI26504_RTI143_PCA Valdosta Mill_1,2,3SDT TRS_July 2009	143	NEI26504	7025	143.7025	143--C016	SCBR		Kraft	SDT (Kraft)
NEI33104-SDT 2011 TRS Compliance.pdf	157	NEI33104	SDT	157.SDT	157--SDRMST	OTH		Kraft	SDT (Kraft)
RTI163_International Paper - Prattville Mill_NEI8560_No 2 Recovery Furnace and Smelt Dissolving Tank.pdf testing	163	NEI8560	SD2906	163.SD2906	163--SD2SCR	SCBR		Kraft, Secondary	SDT (Kraft)
RTI167 NEI34070 2011_IPVicksburg_StackTestReport_(PB,LK,RB,SDT, SS).pdf	167	NEI34070	007SDT	167.007SDT	167--SDSCBR	SCBR		Kraft, Secondary	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	006	171.006	171--MESDT2	OTH		Kraft	SDT (Kraft)
10-0102 Evergreen Compliance_F.pdf	171	NEI18658	006	171.006	171--MESDT2	OTH		Kraft	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	007	171.007	171--VSSDT3	SCBR		Kraft	SDT (Kraft)
10-0102 Evergreen Compliance_F.pdf	171	NEI18658	007	171.007	171--VSSDT3	SCBR		Kraft	SDT (Kraft)
9-0224C Evergreen F.pdf	171	NEI18658	008	171.008	171--VSSDT4	SCBR		Kraft	SDT (Kraft)
10-0102 Evergreen Compliance_F.pdf	171	NEI18658	008	171.008	171--VSSDT4	SCBR		Kraft	SDT (Kraft)
RTI173 NEI 35908 IPTiconderoga SDT test 2-01.pdf	173	NEI35908	SDT	173.SDT	173--SDSCBR	SCBR	NA	Kraft	SDT (Kraft)
P_P_ICR Part III_RTI175_InternationalPaper-AugustaMill_N (6).pdf	175	NEI26514	ST3A	175.ST3A	175--ST3B	SCBR		Kraft	SDT (Kraft)
NEI46599_4SD TRS 2007.pdf	185	NEI46599	05	185.05	185--SD4SCB	PBSCBR		Kraft	SDT (Kraft)
2011.0606-0609.2Q.tests.pdf	188	NEI40600	015SD1	188.015SD1	188--62-056	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)

Test report electronic file name	RTI Plant ID	NEI Site ID	Emission Unit ID(s)	RTI+EUID	APCD_ID(s)	Test report APCD type	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Pulping Process Type	Generic Process Type
2011.0606-0609.2Q.tests.pdf	188	NEI40600	017SD2	188.017SD2	188--62-256	SCBR		Kraft, Secondary, SemiChem	SDT (Kraft)
NEI18390_004_TRS_2009.pdf	199	NEI18390	004	199.004	199--Z006	SCBR		Kraft	SDT (Kraft)
NEI7559SmeltDisTank-87-02TRSSO2Comp1987PartI.pdf	201	NEI7559	SR0034	201.SR0034	201--SDTS	SCBR		Kraft, Mechanical, Secondary	SDT (Kraft)
NEI8601_Unit 010_TRS_2009.pdf	205	NEI8601	010	205.010	205--SDTS	SCBR		Kraft, Secondary	SDT (Kraft)
RTI206_BRPSDTV10TRS11.15.2007.pdf	206	NEI40282	G-35	206.G-35	206--SDT10 DEM	OTH		Kraft	SDT (Kraft)
RTI206_BRPSDTV11TRS11.14.2007.pdf	206	NEI40282	G-36	206.G-36	206--SDT11 DEM	OTH		Kraft	SDT (Kraft)
47091_021_2011_TRS.pdf	606	NEI47091	SDT2	606.SDT2	606--SCRB2	SCBR		Kraft	SDT (Kraft)
47091_007_2005_PM_TRS.pdf	606	NEI47091	SDT3	606.SDT3	606--SCRB3	SCBR		Kraft	SDT (Kraft)
47091_011_2006_PM_TRS.pdf	606	NEI47091	SDT4	606.SDT4	606--SCRB4	SCBR		Kraft	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR	stacked air installed in recovery boiler No. 1 in 2007	Kraft, Mechanical	SDT (Kraft)
610 Verso 2009 SDT 1&2 Report.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR	stacked air installed in recovery boiler No. 1 in 2007	Kraft, Mechanical	SDT (Kraft)
SDT TRS Source Tests 2004.pdf	133	NEI13363	12a	133.12a	133--SDT4TE	SCBR		Kraft	SDT (Kraft)
SDT TRS Source Tests 2004.pdf	133	NEI13363	12b	133.12b	133--SDT4TW	SCBR		Kraft	SDT (Kraft)
2009 4 SDT.pdf	132	NEI42357	4SDT	132.4SDT	132--SCBR1	SCBR		Kraft, Secondary	SDT (Kraft)
NEI46931_3 24-26 2004 No. 1 & No. 2 SDT Compliance Test Report.pdf	148	NEI46931	002, SCMT1	148.002, SCMT1	148--SDT1SCB	SCBR		Kraft, Secondary	SDT (Kraft), Salt Cake Tank
NEI46931_3 24-26 2004 No. 1 & No. 2 SDT Compliance Test Report.pdf	148	NEI46931	008, SCMT2	148.008, SCMT2	148--SDT2SCB	SCBR		Kraft, Secondary	SDT (Kraft), Salt Cake Tank
NEI46931_8 31 2010 & 9 28, 30 2010 No. 1 & No. 2 SDT Compliance Test Report.pdf	148	NEI46931	002	148.002	148--SDT1SCB	SCBR		Kraft, Secondary	SDT (Kraft)
2008 11 2SDTV TRS.pdf	203	NEI42410	2DTScr	203.2DTScr	203--2DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)
2007 10 2SDTV TRS.pdf	203	NEI42410	2DTScr	203.2DTScr	203--2DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)
2003 12 2SDTV TRS.pdf	203	NEI42410	2DTScr	203.2DTScr	203--2DTScr-Scr	SCBR	none	Kraft, Sulfite-Na	SDT (Kraft)
610 Verso 2005 Smelt Tank #2 IPT.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2005 Smelt Tank #2 IPT.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2005 Smelt Tank #2 IPT.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2007 Smelt Tank #1 and #2.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2007 Smelt Tank #1 and #2.pdf	610	NEI6261	9	610.9	610--SDT1WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2007 Smelt Tank #1 and #2.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)
610 Verso 2007 Smelt Tank #1 and #2.pdf	610	NEI6261	10	610.10	610--SDT2WS	SCBR		Kraft, Mechanical	SDT (Kraft)

Green rows were not used in the NSPS review.

	Configuration				General Test Report Information				Production Rate			Inlet/Outlet
RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
105.EU445D	no		TRS as H2S	2010	#4 Smelt Dissolving Tank	unspecified	9/28/2010	M16A	60.33	ton BLS/hr		Outlet
107.09-P2			TRS as H2S	2011	Smelt Dissolving Tanks	unspecified	6/9/2011	M16A	94.5	ton BLS/hr		Outlet
109.SDT3	No		TRS as H2S	2008	Smelt Dissolving Tank # 3	unspecified	9/9/2008	M16	50.27	ton BLS/hr		Outlet
109.SDT4	No		TRS as H2S	2008	No. 4 Smelt Dissolver	unspecified	9/10/2008	M16	78.65	ton BLS/hr		Outlet
111.G-127	No		TRS as H2S	2011	South Smelt Tank	unspecified	1/29/2011	M16	45.3	ton BLS/hr		Outlet
166.ST01	No		TRS as H2S	2009	No. 1 Smelt Dissolving Tank	unspecified	7/14/2009	M16	68.5	ton BLS/hr		Outlet
166.ST02	No		TRS as H2S	2009	No. 2 Smelt Dissolving Tank	unspecified	7/17/2009	M16	82.5	ton BLS/hr		Outlet
174.G-63C			TRS as H2S	2004	No. 5 SDT - East Stack	unspecified	10/22/2004	M16	139.7	ton BLS/hr		Outlet
174.G-63C			TRS as H2S	2004	No. 5 SDT - West Stack	unspecified	10/22/2004	M16	139.7	ton BLS/hr		Outlet
124.020	No		TRS as H2S	2010	No. 1 Smelt Dissolver	Fuel oil	11/3/2010	M16A	58.3	ton BLS/hr		outlet
124.021	No		TRS as H2S	2010	No. 2 Smelt Dissolver	Fuel oil	11/4/2010	M16A	58.05	ton BLS/hr		outlet
100.109	No		TRS as H2S	2001	Smelt Dissolving Tank		8/9/2001	M16	57.5	ton BLS/hr		Outlet
112.AA-101	Yes	smelt dissolving tank rebuilt in 2009 following testing.	TRS as H2S	2009	Smelt Dissolving Tank		3/18/2009	M16A/M6C	117.18	ton BLS/hr		Outlet
114.U508	No		TRS as H2S	2009	Smelt Dissolving Tank		12/2/2009	M16A	107.3	ton BLS/hr		Outlet
115.SM01	no		TRS as H2S	2010	SDT West		9/9/2010	M16A	87.7	ton BLS/hr		Outlet
115.SM01	no		TRS as H2S	2010	SDT East		9/9/2010	M16A	87.7	ton BLS/hr		Outlet
116.004	No		TRS as H2S	2004	Smelt Dissolving Tank Vent		7/20/2004	M16A	95.41	ton BLS/hr		Outlet
119.EQT005	No		TRS as H2S	2010	No. 20 SDT		12/1/2010	M16	57.2	ton BLS/hr		Outlet
126.SDT	No		TRS as H2S	2009	SDT		12/10/2009	M16A	51.6	ton BLS/hr		Outlet
127.SDT1	No		TRS as H2S	2010	SDT Vent		10/26/2010	M16A	77.45	ton BLS/hr		Outlet
136.EU 031	no		TRS as H2S	2010	SDT		5/19/2010	M16A/M16B	113.5	ton BLS/hr		Outlet
137.204	No		TRS as H2S	2010	No. 5 SDT		9/15/2010	M16A/M6C				Outlet
138.003	No		TRS as H2S	2010	Smelt Dissolving Tank		9/23/2010	M16B	57.01388889	ton BLS/hr		Outlet
142.P7413	No	New stack and scrubber specific to SDT-1 installed during 2011.	TRS as H2S	2004	No. 1 and No. 2 SDTs		7/22/2004	M16A	73.45733333	ton BLS/hr		Outlet
146.10	No		TRS as H2S	2008	No. 1 SDT upriver		10/14/2008	M16A	75.90277778	ton BLS/hr		Outlet
146.10	No		TRS as H2S	2008	No. 1 SDT downriver		10/14/2008	M16A	75.90277778	ton BLS/hr		Outlet
146.17	No		TRS as H2S	2008	No. 2 SDT		10/16/2008	M16A	99.93055556	ton BLS/hr		Outlet
148.002	no		TRS as H2S	2010	No. 1 SDT		12/17/2010	M16C	58.7	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
148.008	no		TRS as H2S	2010	No. 2 SDT		9/30/2010	M16C	83.3	ton BLS/hr		Outlet
149.P005	no		TRS as H2S	2009	No. 9 SDT (test 1)		4/3/2009	M16	68.37	ton BLS/hr		Outlet
149.P005	no		TRS as H2S	2009	No. 9 SDT (test 2)		4/8/2009	M16	68.87	ton BLS/hr		Outlet
150.CREC-2a	No		TRS as H2S	2011	Smelt Tank East		3/16/2011	M16B	88.7	ton BLS/hr		Outlet
150.CREC-2b	No		TRS as H2S	2011	Smelt Tank West		3/16/2011	M16B	88.7	ton BLS/hr		Outlet
154.P38 - Smelt Dissolving Tank 3	No		TRS as H2S	2008	SDT3		4/29/2008	M16A	35.13	ton BLS/hr		Outlet
155.SDT	No		TRS as H2S	2011	Smelt Dissolving Tank		3/3/2011	M16C	77.7	ton BLS/hr		Outlet
162.381C	No		TRS as H2S	2008	No. 1 SDT		8/7/2008	M16	52.5	ton BLS/hr		Outlet
162.382B	No		TRS as H2S	2007	No. 2 SDT		3/15/2007	M16	107	ton BLS/hr		Outlet
163.SD1902	No		TRS as H2S	2009	No. 1 SDT South		7/16/2009	M16A	54.47072277	ton BLS/hr		Outlet
163.SD1903	No		TRS as H2S	2009	No. 1 SDT North		7/16/2009	M16A	54.47182508	ton BLS/hr		Outlet
175.ST2A	no		TRS as H2S	2010	No. 2 SDT		8/10/2010	M16C	29.6	ton BLS/hr		Outlet
177.EU0805	No		TRS as H2S	2011	SDT		3/29/2011	M16C	82.5	ton BLS/hr		Outlet
179.SDT	No		TRS as H2S	2009	No. 3 SDT Vent		5/27/2009	M16	86.8	ton BLS/hr		Outlet
180.D002, D907	No		TRS as H2S	2009	No. 3 SDT Vent		3/17/2009	M16	73.98	ton BLS/hr		Outlet
182.110	no		TRS as H2S	2010	Smelt Dissolving Tank Vent		1/12/2010	M16	63.65	ton BLS/hr		Outlet
186.RB17	No		TRS as H2S	2008	No. 4 Smelt Tank		7/22/2008	M16	127.2	ton BLS/hr		Outlet
189.SN27	no		TRS as H2S	2010	SDT East		12/2/2010	M16B	115.2083333	ton BLS/hr	provided BLS MM#/day, converted to TBLS/hr	Outlet
189.SN28	no		TRS as H2S	2010	SDT West		11/30/2010	M16B	114.7916667	ton BLS/hr	provided BLS MM#/day, converted to TBLS/hr	Outlet
190.R405	No		TRS as H2S	2010	No. 2 SDT		3/24/2010	M16A	54.1	ton BLS/hr		Outlet
190.R406	No		TRS as H2S	2011	No. 3 SDT		3/25/2011	M16C	71.6	ton BLS/hr		Outlet
196.SN-08North	no		TRS as H2S	2010	No. 2 North Smelt Tank Vent		4/20/2010	M16A	79.16666667	ton BLS/hr	provided MM#/day (appears to be BLS), converted to ton/hr	Outlet
196.SN-08South	no		TRS as H2S	2010	No. 2 South Smelt Tank Vents		4/20/2010	M16A	79.16666667	ton BLS/hr	provided MM#/day (appears to be BLS), converted to ton/hr	Outlet
196.SN-15	no		TRS as H2S	2010	No. 3 Smelt Tank Vents		4/21/2010	M16A	106.25	ton BLS/hr	provided MM#/day (appears to be BLS), converted to ton/hr	Outlet
198.020	No		TRS as H2S	1995	No. 3 SDT		2/21/1995	M16A	106.25	ton BLS/hr		Outlet
200.007_8, 007_9	No		TRS as H2S	2011	Nos. 2 and 3 SDT Vent		4/14/2011	M16	119.9	ton BLS/hr		Outlet
202.Smelt Dissolving Tank EU322	no	Control TRS with 5 gph 50% caustic to ensure compliance beginning in 2004	TRS as H2S	2011	SDT EU322		7/19/2011	M16A	57.3	ton BLS/hr		Outlet
203.2DTScr	No		TRS as H2S	2010	No. 2 DT Scrubber Vent Stack		12/6/2010	M16A	11.304	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
226.SDT2	no		TRS as H2S	1992	No. 3 SDT		9/11/1992	M16	53.75	ton BLS/hr		Outlet
240.RF02	No		TRS as H2S	2010	No. 5 SDT		5/25/2010	M16	67.4	ton BLS/hr		Outlet
240.RF05	No		TRS as H2S	2010	No. 6 SDT East		3/17/2010	M16	119.6	ton BLS/hr		Outlet
240.RF06	No		TRS as H2S	2010	No. 6 SDT West		3/17/2010	M16	119.6	ton BLS/hr		Outlet
242.AA-012	No		TRS as H2S	2010	SDT		9/30/2010	M16	128.4	ton BLS/hr		Outlet
243.R403	No		TRS as H2S	2009	No. 5 SDT		10/29/2009	M16	81.6	ton BLS/hr		Outlet
243.R408	No		TRS as H2S	2009	No. 6 SDT		10/28/2009	M16	121.8	ton BLS/hr		Outlet
531.RF10	No		TRS as H2S	2010	No. 15 SDT		4/14/2010	M16	155	ton BLS/hr		Outlet
600.G0805	no		TRS as H2S	2007	No. 2 SDT		10/23/2007	M16	85.39	ton BLS/hr		Outlet
600.G0807	no		TRS as H2S	2008	No. 3 SDT		5/7/2008	M16	99.92	ton BLS/hr		Outlet
615.25	no		TRS as H2S	2009	SDT		10/20/2009	M16A	64.05	ton BLS/hr	Provided production in lb BLS fired/min--converted to TBLS/hr	Outlet
617.P21	no		TRS as H2S	2011	S21 SDT		3/16/2011	M16A	34.2	ton BLS/hr		Outlet
208228535.002	No		TRS as H2S	2007	No. 1 SDT		4/23/2007	M16A	109	ton BLS/hr		Outlet
208228535.008	No		TRS as H2S	2006	No. 2 SDT		12/14/2006	M16A	126.9	ton BLS/hr		Outlet
102.SDTV10	No		TRS as H2S	2011	No. 10 Smelt Dissolving Tank		01/05/2011	M16A/M6C	121.20	ton BLS/hr		Outlet
135.007-1, 007-2	No		TRS as H2S	2010	Smelt Dissolving Tank		12/01/2010	M16 (modified)	93.30	ton BLS/hr		Outlet
140.57	Yes		TRS as H2S	2011	Smelt Dissolving Tank		05/17/2011	M16A	52.92	ton BLS/hr		Outlet
142.P7236	No		TRS as H2S	2003	No. 3 Smelt Dissolving Tank Vent		06/30/2003	M16A	66.50	ton BLS/hr		Outlet
143.7005	no		TRS as H2S	2009	No. 1 Smelt Dissolving Tank		07/30/2009	M16	17.79	ton BLS/hr		Outlet
143.7015	no		TRS as H2S	2009	No. 2 Smelt Dissolving Tank		07/30/2009	M16	10.03	ton BLS/hr		Outlet
143.7025	no		TRS as H2S	2009	No. 3 Smelt Dissolving Tank		07/31/2009	M16	25.97	ton BLS/hr		Outlet
157.SDT	No		TRS as H2S	2011	Smelt Dissolving Tank		04/06/2011	M16B	33.52	ton BLS/hr		Outlet
163.SD2906	No		TRS as H2S	2003	No. 2 Smelt Dissolving Tank		12/08/2003	M16A	76.16	ton BLS/hr		Outlet
167.007SDT	no	NA	TRS as H2S	2011	Smelt Dissolving Tank		01/17/2011	M16A	72.03	ton BLS/hr		Outlet
171.006	no		TRS as H2S	2009	No. 2 Smelt Dissolving Tank		07/08/2009	M16A/M6C	27.22	ton BLS/hr		Outlet
171.006	no		TRS as H2S	2010	No. 2 Smelt Dissolving Tank		07/14/2010	M16A/M6C	27.31	ton BLS/hr		Outlet
171.007	no		TRS as H2S	2009	No. 3 Smelt Dissolving Tank		07/07/2009	M16A/M6C	27.68	ton BLS/hr		Outlet
171.007	no		TRS as H2S	2010	No. 3 Smelt Dissolving Tank		07/13/2010	M16A/M6C	27.83	ton BLS/hr		Outlet
171.008	no		TRS as H2S	2009	No. 4 Smelt Dissolving Tank		07/06/2009	M16A/M6C	84.66	ton BLS/hr		Outlet
171.008	no		TRS as H2S	2010	No. 4 Smelt Dissolving Tank		07/15/2010	M16A/M6C	83.41	ton BLS/hr		Outlet
173.SDT	No	NA	TRS as H2S	2001	Smelt Dissolving Tank		02/08/2001	M16	41.70	ton BLS/hr		Outlet
175.ST3A	no		TRS as H2S	2009	No. 3 Smelt Dissolving Tank		08/10/2009	M16	115.67	ton BLS/hr		Outlet
185.05	No		TRS as H2S	2007	No. 4 Smelt Dissolver		01/31/2007	M16A/M6C	36.67	ton BLS/hr		Outlet
188.015SD1	No		TRS as H2S	2011	No. 1 Smelt Dissolving Tank		06/06/2011	M16A/M6C	29.45	ton BLS/hr		Outlet

RTI+EUID	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	Pollutant	Year of emissions test	General Description	Fuels Burned During Test	Test Date (mm/dd/yyyy)	Emission Test Method	Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Are inlet or outlet data provided?
188.017SD2	No		TRS as H2S	2011	No. 2 Smelt Dissolving Tank		06/06/2011	M16A/M6C	30.14	ton BLS/hr		Outlet
199.004	No		TRS as H2S	2009	No. 3 Smelt Dissolving Tank		02/11/2009	M16	71.10	ton BLS/hr		Outlet
201.SR0034	No		TRS as H2S	1987	Smelt Dissolving Tank		10/28/1987	M16A	82.52	ton BLS/hr		Outlet
205.010	No		TRS as H2S	2009	Smelt Dissolving Tank		01/14/2009	M16A	51.50	ton BLS/hr		Outlet
206.G-35	no		TRS as H2S	2007	No. 10 Smelt Dissolving Tank		11/15/2007	M16A	unspecified		Production values are reserved	Outlet
206.G-36	no		TRS as H2S	2007	No. 11 Smelt Dissolving Tank		11/14/2007	M16A	unspecified		Production values are reserved	Outlet
606.SDT2	no		TRS as H2S	2011	No. 2 Smelt Dissolving Tank		12/15/2011	M16	43.97	ton BLS/hr		Outlet
606.SDT3	no		TRS as H2S	2005	No. 3 Smelt Dissolving Tank		10/25/2005	M16	40.90	ton BLS/hr		Outlet
606.SDT4	no		TRS as H2S	2006	No. 4 Smelt Dissolving Tank		07/20/2006	M16	66.00	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2009	No. 2 Smelt Dissolving Tank		07/14/2009	M16	63.70	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2009	No. 2 Smelt Dissolving Tank		07/14/2009	M16	64.00	ton BLS/hr		Outlet
610.9	no		TRS as H2S	2009	No. 1 Smelt Dissolving Tank		07/14/2009	M16	45.90	ton BLS/hr		Outlet
610.9	no		TRS as H2S	2009	No. 1 Smelt Dissolving Tank		07/15/2009	M16	45.90	ton BLS/hr		Outlet
133.12a	No		TRS as H2S	2004	No. 4 Smelt Dissolving Tank - East		12/01/2004	M16 (modified)	unspecified		no production data given	Outlet
133.12b	No		TRS as H2S	2004	No. 4 Smelt Dissolving Tank - West		12/01/2004	M16 (modified)	unspecified		no production data given	Outlet
132.4SDT			TRS as H2S	2009	SDTV No. 4		6/15/2009	M16A	66.66	ton BLS/hr		Outlet
148.002, SCMT1	no		TRS as H2S	2004	No. 1 SDT		3/24/2004	M16A	59.17	ton BLS/hr		Outlet
148.008, SCMT2	no		TRS as H2S	2004	No. 2 SDT		3/24/2004	M16A	74.58	ton BLS/hr		Outlet
148.002	no		TRS as H2S	2010	No. 1 SDT		8/31/2010	M16C	60.7	ton BLS/hr		Outlet
203.2DTScr	No		TRS as H2S	2008	No. 2 SDT		11/21/2008	M16A	unspecified	unspecified	BLS mass rate not provided (only gpm)	Outlet
203.2DTScr	No		TRS as H2S	2007	No. 2 SDT		10/30/2007	M16A	unspecified	unspecified	BLS mass rate not provided (only gpm)	Outlet
203.2DTScr	No		TRS as H2S	2003	No. 2 SDT		12/3/2003	M16A	unspecified	unspecified		Outlet
610.10	no		TRS as H2S	2005	No. 2 Smelt Dissolving Tank		8/1/2005	M16	50.2	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2005	No. 2 Smelt Dissolving Tank		8/3/2005	M16	56.2	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2005	No. 2 Smelt Dissolving Tank		8/4/2005	M16	57.5	ton BLS/hr		Outlet
610.9	no		TRS as H2S	2007	No. 1 Smelt Dissolving Tank		7/30/2007	M16	43.7	ton BLS/hr		Outlet
610.9	no		TRS as H2S	2007	No. 1 Smelt Dissolving Tank		7/31/2007	M16	43.7	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2007	No. 2 Smelt Dissolving Tank		7/17/2007	M16	62.5	ton BLS/hr		Outlet
610.10	no		TRS as H2S	2007	No. 2 Smelt Dissolving Tank		7/19/2007	M16	63.9	ton BLS/hr		Outlet

	Outlet - Testing Methodology Data		Outlet - Average Stack Gas Parameters							Outlet - Average Emissions Data							Removal Efficiency
RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
105.EU445D	60	unspecified	27076	11855	46.09	180	29.45	0.13	20.19	7.23	ppmdv	3	0	0.446	0.0074	lb as H2S/ton BLS	
107.09-P2	60	102.4	21808	4934	71.6	197.6	29.676	unspecified	unspecified	5.72	ppm as SO2	3	0	0.921	0.0100	lb as H2S/ton BLS	
109.SDT3	180	unspecified	16923	8630	38.6	167	29.52	0	20.9	4.93	ppm	3	0	0.23	0.0040	lb as H2S/ton BLS	
109.SDT4	180	unspecified	22355	9325	49	177	29.51	0	20.9	3.02	ppm	3	0	0.15	0.0020	lb as H2S/ton BLS	
111.G-127	62	97.83	26630	20899	29.82	183.7	29.69	-0.03	20.7	5.82	ppm	3	0	0.6342	0.0140	lb as H2S/ton BLS	
166.ST01	60	100.2	42564	24297	32.8	159.2	29.53	0	20.9	3.71	ppm	3	0	0.48	0.0070	lb as H2S/ton BLS	
166.ST02	60	101.8	31171	13241	48.6	176.5	29.44	0	20.9	16.4	ppm	3	0	1.2	0.0140	lb as H2S/ton BLS	
174.G-63C	60	100.7	29625	15171	38.9	169	29.91	0	20.9	3.75	ppm	3	0	0.3	0.0021	lb as H2S/ton BLS	
174.G-63C	60	98.5	28472	16983	32.2	157.1	29.91	0	20.9	14.4	ppm	3	0	1.2	0.0086	lb as H2S/ton BLS	
124.020	180		unspecified	40751	unspecified	unspecified	unspecified	unspecified	unspecified	2.999333333	ppm as SO2	3	0	0.647933333	0.011113779	lb as H2S/ton BLS	
124.021	180		unspecified	30980	unspecified	unspecified	unspecified	unspecified	unspecified	5.441333333	ppm as SO2	3	0	0.893033333	0.015383864	lb as H2S/ton BLS	
100.109	92		12567	4590	53.2	179	28.33	0.4	19.56666667	14.15666667	ppm	3	0	0.344883071	0.005997966	lb as H2S/ton BLS	
112.AA-101	unspecified	95.82	85119	47483	34.46	166		0	20.5			3	0	0.335160787	0.002860222	lb as H2S/ton BLS	
114.U508	193		36087	19390	24.97666667	166.33	29.22333333	0	21	5.7	ppmdv as H2S	3	0	0.58	0.0054	lb as H2S/ton BLS	
115.SM01	180.0447		19046	9545	40.5	167.6	29.94	0	20.9	4.874	ppm as SO2	3	0	0.247	0.0028	lb as H2S/ton BLS	
115.SM01	180.067		18998	10564	34.4	162.9	29.94	0	20.9	3.856	ppm as SO2	3	0	0.2159	0.0025	lb as H2S/ton BLS	
116.004	60	95.7	47368	28533	29.8	157.6	30	0	20.9	2.45	ppmd	3	0	0.4	0.0039	lb as H2S/ton BLS	
119.EQT005	180		32163.33333	22139	21.43333333	145.23	30.08	0	20.9	7.07	ppmv	3	0	0.831	0.015	lb as H2S/ton BLS	
126.SDT	180	96.21666667	42308	30881.66667	18.11	134.31	29.36	0	20.77	1.47	ppm as SO2	3	0	0.2404	0.004658915	lb as H2S/ton BLS	
127.SDT1	180		26880.33333	14638	33	161.9333333	29.81	0	20.9	1.631	ppm as SO2	3	0	0.1265	0.0016	lb as H2S/ton BLS	
136.EU 031	76.33333333	105.4	34300	11500	57.01333333	183.6666667	28.57	0.233333333	19.73333333	8.15	ppm as H2S	3	0	0.5	0.0044	lb as H2S/ton BLS	
137.204															0.008990821	lb as H2S/ton BLS	
138.003	60	104.0433333	unspecified	unspecified	55.96	199.9966667	30.1	1.1	19	1.5	ppm	3	0	0.05	0.00088	lb as H2S/ton BLS	
142.P7413	180		30089	17286	31.4	160	29.45	0	20.9	3.1	ppm	3	0	0.282	0.004	lb as H2S/ton BLS	
146.10	180	101.8	25931.33333	14744	31.6	148.0666667	28.64333333	0	20.9	1.822	ppm as SO2	3	0	0.1427	0.001883333	lb as H2S/ton BLS	
146.10	180	107.5333333	24716.66667	14369	29.86666667	149.8	28.65	0	20.9	1.878333333	ppm as SO2	3	0	0.143233333	0.001894333	lb as H2S/ton BLS	
146.17	180	101	36921	17321.66667	41.23333333	175.7	28.82	0.2	20.8	1.500333333	ppm as SO2	3	0	0.1379	0.001398333	lb as H2S/ton BLS	
148.002	66.33333333		26619	15240	32.4	163.9966667	29.93	0	20.9	13.02	ppm as SO2	3	0	1.04	0.0176	lb as H2S/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
148.008	60.33333333		26760	9763	55.3	183.9966667	29.78	0	20.9	33.8	ppm as SO2	4	0	1.72	0.0206	lb as H2S/ton BLS	
149.P005	180		15900	7030	45.03333333	173	28.31	0	20.8	26	ppmd	3	0	0.96	0.014040634	lb as H2S/ton BLS	
149.P005	180		13800	5930	46.33333333	174	28.9	0	20.8	28	ppmd	3	0	0.89	0.012922668	lb as H2S/ton BLS	
150.CREC-2a	60		16704	5982	56.6	185	30.16	0	20.9	17.5	ppm as SO2	3	0	0.6	0.006	lb as H2S/ton BLS	
150.CREC-2b	60		16923	6125	56.2	184	30.16	0	20.9	11.3	ppm as SO2	3	0	0.4	0.004	lb as H2S/ton BLS	
154.P38 - Smelt Dissolving Tank 3	60		13372	6845	37.2	176.1	29.46	1	19	2	ppmvd as SO2	12	0	0.073	0.0021	lb as H2S/ton BLS	
155.SDT	62	103.2	34390	15416	44.7	191.33	29.92	0.1	20.6	11.41	ppm as SO2	5	0	0.917	0.0118	lb as H2S/ton BLS	
162.381C	90		25921	11780	44.5	177.8	29.62	0	20.9	7.3	ppm	3	0	0.45	0.0087	lb as H2S/ton BLS	
162.382B	95.33333333		46210	23668.33333	38.5	167	29.62	0.07	20.23	9.4	ppm	3	0	1.184	0.011065421	lb as H2S/ton BLS	
163.SD1902	60		21470	13851	25.3	152	29.98	0	20.9	3.2	ppmd as SO2	3	0	0.237	0.0043	lb as H2S/ton BLS	
163.SD1903	60		26147	18772	18.7	138.3333333	29.98	0	20.9	0.933333333	ppmd as SO2	3	0	0.093	0.0017	lb as H2S/ton BLS	
175.ST2A	59		31890	23481	17.3	135.6633333	30.05	0	21	0.86	ppm as SO2	3	0	0.108	0.00365	lb as H2S/ton BLS	
177.EU0805	180		unspecified	16477	unspecified	unspecified	unspecified	unspecified	unspecified	1.9	ppmd as SO2	3	0	0.17	0.002060606	lb as H2S/ton BLS	
179.SDT	90.33333333		36585	17457	42.2	173	29.5	0	20.9	9.6	ppm	3	0	0.88	0.0102	lb as H2S/ton BLS	
180.D002, D907	179.6666667		21972	10863	40.7	170.4666667	29.82	0	21	6.61	ppm	3	0	0.38	0.005	lb as H2S/ton BLS	
182.110	60		19321.66667	9456	42	167.0333333	30.04	0.1	20.4	10.4	ppmvd	3	0	0.5	0.008	lb as H2S/ton BLS	
186.RB17	77		50221	24161	42.05	171	29.7	0	20.9	20.6	ppm	4	0	2.67	0.021	lb as H2S/ton BLS	
189.SN27	192		20263	9488.783333	44.52	166		0	20	0.1141	ppmvd	3	0	0.006	0.00005	lb as H2S/ton BLS	
189.SN28	192		27722	12852.91667	45.44	165		0	20	2.72	ppmvd	3	0	0.19	0.0017	lb as H2S/ton BLS	
190.R405	62.66666667		31148	18348	28.9	155.66	28.89	0	20.9	4.22	ppm	3	0	0.379	0.00704	lb as H2S/ton BLS	
190.R406	60		29536	18787	26.1	154.33	29.94	0.073333333	20.66	6.63	ppm	3	0	0.647	0.00903	lb as H2S/ton BLS	
196.SN-08North	180		23769	12116	39.1	169.5	29.87	0	21	0.8	ppmvd as H2S	3	0	0.05	0.000649838	lb as H2S/ton BLS	
196.SN-08South	180		25487	13678	36.3	165.6	29.86	0	21	0.7	ppmvd	3	0	0.05	0.000641913	lb as H2S/ton BLS	
196.SN-15	180		unspecified	8613	unspecified	unspecified	unspecified	unspecified	unspecified	0.7	ppmvd	3	0	0.03	0.000301177	lb as H2S/ton BLS	
198.020	60		29832	14414	40.603	177	29.04	0.2	20.5	15.51	ppm	3	0	1.19	0.011	lb as H2S/ton BLS	
200.007_8, 007_9	90		55688	25843	43.3	172	29.3	0	20.9	3.26	ppm	3	0	0.45	0.004	lb as H2S/ton BLS	
202.Smelt Dissolving Tank EU322	60		28600	16200						2.8	ppmvd	3	0	0.24	0.0041	lb as H2S/ton BLS	
203.2DTScr	61		12100	7630	26.6	156	29.98	0.03	20.95	5.43	ppmv	1	0	0.22	0.019	lb as H2S/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
226.SDT2	180		26590.93333	13094	38	166.66	29.92933333	1	19.5	14.4	ppm	3	0	0.3117	0.0058	lb as H2S/ton BLS	
240.RF02	60		46166	30312	23.9	147.5	29.72	0	20.9	4.1	ppm	3	0	0.654	0.0097	lb as H2S/ton BLS	
240.RF05	90		31313	17080	34.7	165	29.59	0	20.9	10.3	ppm	3	0	0.93	0.00777592	lb as H2S/ton BLS	
240.RF06	90		32674	17508	36	164.2	29.59	0	20.9	2.19	ppm	3	0	0.2	0.001672241	lb as H2S/ton BLS	
242.AA-012	180		35976	16424	44.4	173	29.48	0	21	18.6	ppm	3	0	1.626	0.013	lb as H2S/ton BLS	
243.R403	90		35600	19548	34.7	166.5	29.87	0	20.9	9.63	ppm	3	0	0.99	0.0122	lb as H2S/ton BLS	
243.R408	90		24431	12046	40.5	172.4	29.71	0	20.9	6.11	ppm	3	0	0.39	0.0032	lb as H2S/ton BLS	
531.RF10	90		40737	14483	56.6	185	29.99	0	20.9	10.53	ppm	3	0	0.81	0.005	lb as H2S/ton BLS	
600.G0805	120		28559	9703	57.1	184	28.93	0	20.9	21	ppm	3	0	1.1	0.013	lb as H2S/ton BLS	
600.G0807	70			13200	47.3					11.4	ppm	3	0	0.8	0.008	lb as H2S/ton BLS	
615.25	60		33330	22241	23.3	147.3	29.96	0.02	20.54	2.33	ppmvd	3	0	0.28	0.005	lb as H2S/ton BLS	
617.P21	180			10677			29.03			7.86	ppmvd	3	0	0.4446	0.013	lb as H2S/ton BLS	
208228535.002	60			18150	39.8					28.4	ppmd	3	0	2.7	0.025	lb as H2S/ton BLS	
208228535.008	64.33333333			46491	37.2					6.1	ppmd	3	0	1.5	0.0119	lb as H2S/ton BLS	
102.SDTV10	60.00	N/A	37092	21902	31.17	161.0	30.21	13.90	7.00	7.02	ppm	3	0	0.816	0.0067	lb as H2S/ton BLS	
135.007-1, 007-2	90.00	N/A	33600	15833	43.83	173.3	30.07	0.00	20.80	14.05	ppm	3	0	1.1806	0.0127	lb as H2S/ton BLS	
140.57	180.00	N/A	20361	9852	41.90	173.2	29.87	0.07	20.46	15.41	ppmd	3	0	0.81	0.0153	lb as H2S/ton BLS	
142.P7236	63.33	97.67	35038	22259	24.97	155.0	29.51	0.00	20.90	7.1	ppm	3	0	0.8417	0.013	lb as H2S/ton BLS	
143.7005	90.00	N/A	10499	7357	18.73	148.3	unspecified	0.00	20.90	1.4	ppm	3	0	0.0547	0.0031	lb as H2S/ton BLS	
143.7015	90.00	N/A	9833	6340	24.93	151.1	29.72	0.00	20.90	0.22	ppm	3	0	0.0074	0.0007	lb as H2S/ton BLS	
143.7025	90.00	N/A	24320	15919	23.03	158.0	29.77	0.00	20.90	1.9	ppm	3	0	0.16	0.0062	lb as H2S/ton BLS	
157.SDT	60.00	N/A	3675	3001	10.20	115.3	29.60	0.00	20.90	0.5	ppm	3	0	0.008	0.0002	lb as H2S/ton BLS	
163.SD2906	60.00	N/A	33406	19071	31.90	156.6	unspecified	0.00	20.90	6.5	ppmd	3	0	0.66	0.0086	lb as H2S/ton BLS	
167.007SDT	63.67	93.26	48779	26486	34.97	264.4	29.94	0.00	20.90	3.3	ppm	3	0	0.4639	0.0064	lb as H2S/ton BLS	
171.006	180.00	N/A	7656	3731	41.40	170.9	29.73	0.00	21.00	3	ppmvd	3	0	0.06	0.0022	lb as H2S/ton BLS	
171.006	180.00	N/A	9318	4506	41.87	171.3	29.80	0.00	21.00	21.5	ppmvd	3	0	0.51	0.0188	lb as H2S/ton BLS	
171.007	180.00	N/A	14514	8103	33.90	162.3	29.79	0.00	21.00	3	ppmvd	3	0	0.13	0.0047	lb as H2S/ton BLS	
171.007	180.00	N/A	12853	7678	29.37	155.2	29.66	0.00	21.00	18.6	ppmvd	3	0	0.76	0.0272	lb as H2S/ton BLS	
171.008	180.00	N/A	33417	15882	42.70	173.3	29.75	0.00	21.00	4.1	ppmvd	3	0	0.35	0.0041	lb as H2S/ton BLS	
171.008	180.00	N/A	28637	12103	47.77	177.0	29.79	0.00	21.00	16.9667	ppmvd	3	0	1.0867	0.013	lb as H2S/ton BLS	
173.SDT	175.00	N/A	17135	10615	30.00	138.0	29.99	0.00	20.90	7.4	ppm	3	0	0.4169	0.0100	lb as H2S/ton BLS	
175.ST3A	60.67	N/A	38309	17821	44.00	173.3	29.83	0.00	20.90	1.53	ppm	3	0	0.1433	0.0012	lb as H2S/ton BLS	
185.05	60.00	N/A	13127	7194	35.27	165.0	30.00	0.03	20.95	5.12	ppmvd	3	0	0.196	0.0053	lb as H2S/ton BLS	
188.015SD1	73.33	N/A	20494	11753	32.91	161.2	30.09	0.10	20.34	1.9172	ppm	3	0	0.1196	0.0041	lb as H2S/ton BLS	

RTI+EUID	Average Sampling Run Length_Outlet (mins)	Average Fraction of Isokinetic Sampling Rate_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas CO2_Inlet (%)	Average Gas Oxygen_Outlet (%)	Average_Outlet concentration	Average Outlet concentration units	Number of Outlet Test Runs	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Average Pollutant Removal Efficiency (%)
188.017SD2	72.67	N/A	19215	11405	30.87	158.5	30.09	0.10	20.51	2.055	ppm	3	0	0.12436	0.00413	lb as H2S/ton BLS	
199.004	93.00	N/A	21005	11003	37.20	166.0	29.59	0.00	21.00	12.6	ppm	3	0	0.73	0.01	lb as H2S/ton BLS	
201.SR0034	60.00	N/A	51824	28613	34.88	164.7	29.86	0.00	20.80	7.9	ppm	3	0	1.2	0.0145	lb as H2S/ton BLS	
205.010	60.00	N/A	28378	18828	24.10	151.0	unspecified	0.00	20.90	1.5	ppm	3	0	0.1467	0.0029	lb as H2S/ton BLS	
206.G-35	66.67	N/A	19176	6578	55.21	179.0	27.10	0.00	20.90	0.936	ppm	3	0	0.0328	unspecified		
206.G-36	70.00	N/A	16990	8334	36.93	157.3	27.23	0.00	20.90	0.988	ppm	3	0	0.0436	unspecified		
606.SDT2	180.00	N/A	17411	9386	36.30	165.0	30.00	0.00	21.00	8.16	ppm	3	0	0.404	0.009	lb as H2S/ton BLS	
606.SDT3	179.00	N/A	21545	13151	28.60	158.0	29.98	0.00	20.90	5.5	ppm	3	0	0.381	0.0093	lb as H2S/ton BLS	
606.SDT4	63.00	N/A	33283	19776	30.10	163.0	30.02	0.00	20.90	8.6	ppm	3	0	0.903	0.0137	lb as H2S/ton BLS	
610.10	60.00	N/A	11920	6888	31.20	165.6	29.83	0.13	20.90	19.1133	ppmvd	3	0	0.72	0.011	lb as H2S/ton BLS	
610.10	60.00	N/A	12902	7575	30.20	165.0	30.00	0.21	20.90	31.9467	ppmvd	3	0	1.32	0.021	lb as H2S/ton BLS	
610.9	60.00	N/A	15768	9311	30.90	159.7	30.00	0.00	20.90	10	ppmvd	3	0	0.52	0.011	lb as H2S/ton BLS	
610.9	60.00	N/A	12817	7613	30.50	159.1	30.00	0.00	20.90	4.7	ppmvd	3	0	0.2	0.004	lb as H2S/ton BLS	
133.12a	30.00	N/A	16821	12689	16.00	136.6	30.36	unspecified	unspecified	0.063	ppm	1	0	0.004	unspecified		
133.12b	30.00	N/A	19682	14363	18.00	142.0	30.36	unspecified	unspecified	2.7	ppm	1	0	0.205	unspecified		
132.4SDT	60	unspecified	30482	17566.7	31.67	163.86	29.8	unspecified	unspecified	unspecified		3	0	0.507633333	0.007666667	lb as H2S/ton BLS	
148.002, SCMT1	60		28718	18876	24.6	150.3333333	30.16	0.2	20.7	7.527333333	ppm	3	0	0.696	0.0118	lb as H2S/ton BLS	
148.008, SCMT2	60		21003	10970	38.5	172	30.42	0.133333333	20.76666667	26.19333333	ppm	3	0	1.35	0.0181	lb as H2S/ton BLS	
148.002	60		27964	13225	43.7	175	unspecified	0	20.9	23.795	ppm	3	0	1.64	0.027	lb as H2S/ton BLS	
203.2DTScr	unspecified		unspecified	11441	unspecified	unspecified	unspecified	unspecified	unspecified	4.432	ppmdv	1	0	unspecified	0.025	lb as H2S/ton BLS	
203.2DTScr	unspecified		unspecified	12266	unspecified	unspecified	unspecified	unspecified	unspecified	5.241	ppmdv	1	0	unspecified	0.032	lb as H2S/ton BLS	
203.2DTScr	60		unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	unspecified	14.2725	ppmv	4	0	unspecified	unspecified	unspecified	
610.10	60	101.3	12179	7211.476667	31	158.7	unspecified	0.08	20.4	25.9	ppmvd	3	0	1.02	0.02	lb as H2S/ton BLS	
610.10	60	100	13716.9	8723.348333	26.3	156.3	unspecified	0.04	20.05	35.3	ppmvd	3	0	1.689	0.029	lb as H2S/ton BLS	
610.10	60	107.2	13347.8	8266.775	28.5	155.2	unspecified	0.25	20.4	32	ppmvd	3	0	1.43	0.024	lb as H2S/ton BLS	
610.9	60	100.4	9791	4233.616667	47.5	179	unspecified	0.04	20.11	47.6	ppmdv	3	0	1.1	0.025	lb as H2S/ton BLS	
610.9	60	92.6	10323	5039.133333	41.4	171.9	unspecified	0.14	19.99	47	ppmdv	3	0	1.29	0.029	lb as H2S/ton BLS	
610.10	60	101.8	10708	6709.083333	27.2	152.1	unspecified	0.18	20.11	34.9	ppmdv	3	0	1.28	0.02	lb as H2S/ton BLS	
610.10	60	99.4	16826	8419.916667	40	168.6	unspecified	0.17	20.09	41.1	ppmdv	3	0	1.99	0.031	lb as H2S/ton BLS	

No inlet data were provided for SDT TRS.

	Suspect Data		Exclude		Comment	Data analysis notes		Multi-stack sums				
RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
105.EU445D					Slightly caustic boiler blowdwon is used as the scrubbing liquid.	105.EU445D.TRS as H2S		0.446	0.0074	1	0.446	0.0074
107.09-P2						107.09-P2.TRS as H2S		0.921	0.0100	2	0.921	0.0100
109.SDT3						109.SDT3.TRS as H2S		0.23	0.0040	3	0.23	0.0040
109.SDT4						109.SDT4.TRS as H2S		0.15	0.0020	4	0.15	0.0020
111.G-127					SDT operates with SCBR/INC_RF normally, but only the SDT bypass with the SCBR alone was tested as an alternative condition. Re-calculated mass emission rate to determine that it was "as H2S" because eqns not provided and not specified in report.	111.G-127.TRS as H2S		0.6342	0.0140	5	0.6342	0.0140
166.ST01					Checked calculation to ensure mass reported as H2S	166.ST01.TRS as H2S		0.48	0.0070	6	0.48	0.0070
166.ST02					Checked calculation to ensure mass reported as H2S	166.ST02.TRS as H2S		1.2	0.0140	7	1.2	0.0140
174.G-63C						174.G-63C.TRS as H2S	separate stacks			8		
174.G-63C						174.G-63C.TRS as H2S	separate stacks	1.5	0.010737294	9	1.5	0.010737294
124.020						124.020.TRS as H2S		0.647933333	0.0111	10	0.647933333	0.0111
124.021						124.021.TRS as H2S		0.893033333	0.0154	11	0.893033333	0.0154
100.109					(1) Only H2S was detected. Test report did not provide detection limits, but instead treated other TRS compounds as zero in calculatons. (2) Recalculated TRS lb/hr and lb/ton using subpart BB eqn.	100.109.TRS as H2S		0.344883071	0.0060	12	0.344883071	0.0060
112.AA-101		smelt dissolving tank rebuilt in 2009 following testing.			TRS as SO2 provided. Converted to as H2S basis.	112.AA-101.TRS as H2S		0.335160787	0.0029	13	0.335160787	0.0029
114.U508		Don't need M16A concentration (different units); however can use mass rate			Modified version of M16A used to provide TRS as H2S.	114.U508.TRS as H2S		0.58	0.0054	14	0.58	0.0054
115.SM01					There are 2 SDTs supporting 1 RF.	115.SM01.TRS as H2S	separate stacks			15		
115.SM01					There are 2 SDTs supporting 1 RF.	115.SM01.TRS as H2S	separate stacks	0.4629	0.0053	16	0.4629	0.0053
116.004						116.004.TRS as H2S		0.4	0.0039	17	0.4	0.0039
119.EQT005						119.EQT005.TRS as H2S		0.831	0.0150	18	0.831	0.0150
126.SDT						126.SDT.TRS as H2S		0.2404	0.0047	19	0.2404	0.0047
127.SDT1						127.SDT1.TRS as H2S		0.1265	0.0016	20	0.1265	0.0016
136.EU 031					Test report labels method as 16A/B.	136.EU 031.TRS as H2S		0.5	0.0044	21	0.5	0.0044
137.204		Only 1 run	Yes	Only 1 run		137.204.TRS as H2S		0	0.0090	22	0	0.0090
138.003					Did not provide H2S, MeSH, DMDS, or DMS values. Using eqn on p. 12 of pdf report, could see that testers used MW of H2S for mass calculations (so TRS was reported as H2S).	138.003.TRS as H2S		0.05	0.0009	23	0.05	0.0009
142.P7413		New stack and scrubber specific to SDT-1 installed during 2011.			Emissions are from 2 SDTs with a combined stack. Did not provide H2S, MeSH, DMDS, or DMS values. Confired as H2S by reviewing equation used for mass calculation.	142.P7413.TRS as H2S		0.282	0.0040	24	0.282	0.0040
146.10					Test report multiplies lb/ton values for upriver and downriver SDTs by 2, then averages them to get total; same as just adding the upriver and downriver lb/ton values together. Test report uses parameters from PM Runs 1 and 2 for TRS Runs 1 and 2 and provides parameters for TRS Run 3; does not provide isokinetic for Run 3 of TRS test; used number from Run 3 of PM test (assuming overlap between PM and TRS Run 3).	146.10.TRS as H2S	separate stacks			25		
146.10					Test report multiplies lb/ton values for upriver and downriver SDTs by 2, then averages them to get total; same as just adding the upriver and downriver lb/ton values together. Test report uses parameters from PM Runs 1 and 2 for TRS Runs 1 and 2 and provides parameters for TRS Run 3; does not provide isokinetic for Run 3 of TRS test; used number from Run 3 of PM test (assuming overlap between PM and TRS Run 3).	146.10.TRS as H2S	separate stacks	0.285933333	0.003777667	26	0.285933333	0.003777667
146.17					Test report uses parameters from PM run 3 for TRS Run 3 and provides parameters for TRS Runs 1 and 2; does not provide isokinetic for Runs 1 and 2 of TRS test; used numbers from Runs 1 and 2 of PM test (assuming overlap between PM and TRS test runs).	146.17.TRS as H2S		0.1379	0.0014	27	0.1379	0.0014
148.002						148.002.TRS as H2S	different dates	1.04	0.0176	28	1.04	0.0176

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
148.008					Run 1 not included in averages; used Runs 2-4.	148.008.TRS as H2S	different dates	1.72	0.0206	29	1.72	0.0206
149.P005					Separate tests conducted on SDT on different days - report provided no reason for the separate tests. H2S was the only TRS compound detected; others treated as zero.	149.P005.TRS as H2S	reason unspecified	0.96	0.0140	30	0.96	0.0140
149.P005					Test included 4 runs, but "Integrator paper jammed during run. Illegible data from 1020-1040 hours (5 injects)." Run 1 was not included in the averages. 2 of the 4 TRS were non-detect in all runs; only H2S and MeSH were detected.	149.P005.TRS as H2S	reason unspecified	0.89	0.0129	31	0.89	0.0129
150.CREC-2a						150.CREC-2a.TRS as H2S	Separate stacks: The smelt dissolving tank emission unit id CREC-2 has two identical stacks (CREC-2a and CREC-2b) and each stack has an identical scrubber (SCRBSTa and SCRBSTb).			32		
150.CREC-2b						150.CREC-2b.TRS as H2S	Separate stacks: The smelt dissolving tank emission unit id CREC-2 has two identical stacks (CREC-2a and CREC-2b) and each stack has an identical scrubber (SCRBSTa and SCRBSTb).	1	0.01	33	1	0.01
154.P38 - Smelt Dissolving Tank 3					"Runs 1, 2, and 3 were not included in the average results due to failed validations." Derived parameters for each run by averaging the parameters measured at the start of that run and the next run.	154.P38 - Smelt Dissolving Tank 3.TRS as H2S		0.073	0.0021	34	0.073	0.0021
155.SDT					"Runs 1 and 3 were voided due to sub-isokinetic sampling rates. Additional test runs were completed in order to obtain three acceptable isokinetic sampling rate test runs." Report calculated TRS as S; revised to calculate TRS as H2S and added my calculated values here.	155.SDT .TRS as H2S		0.917	0.0118	35	0.917	0.0118
162.381C						162.381C.TRS as H2S		0.45	0.0087	36	0.45	0.0087
162.382B					Only H2S was detected. Concentration averages were calculated using 0 for non-detect TRS compounds.	162.382B.TRS as H2S		1.184	0.0111	37	1.184	0.0111
163.SD1902					Although report presents ppmd TRS "as H2S," calculations indicate it is actually "as SO2." Inconsistency in moisture content between two tables in report; went with number in lab report table. Converted kg BLS/hr process rate to ton BLS/hr.	163.SD1902.TRS as H2S		0.237	0.0043	38	0.237	0.0043
163.SD1903					Although report presents ppmd TRS "as H2S," calculations indicate it is actually "as SO2." Converted kg BLS/hr process rate to ton BLS/hr.	163.SD1903.TRS as H2S		0.093	0.0017	39	0.093	0.0017
175.ST2A					Report calculated TRS as S; revised to calculate TRS as H2S and added my calculated values here.	175.ST2A.TRS as H2S		0.108	0.0037	40	0.108	0.0037
177.EU0805					Test report emission factor of 0.0038 lb/TBLS was on an as SO2 basis; recalcuated as H2S.	177.EU0805.TRS as H2S		0.17	0.0021	41	0.17	0.0021
179.SDT						179.SDT.TRS as H2S		0.88	0.0102	42	0.88	0.0102
180.D002, D907					EmissionUnitID: No. 3 SDT (D002) and salt cake mix tank (D907) have combined exhausts	180.D002, D907.TRS as H2S		0.38	0.0050	43	0.38	0.0050
182.110						182.110.TRS as H2S		0.5	0.0080	44	0.5	0.0080
186.RB17					TRS runs 1-3 correspond to PM runs 1-3. Averages calculated using PM runs 1-3 and TRS run 4 data	186.RB17.TRS as H2S		2.67	0.0210	45	2.67	0.0210
189.SN27						189.SN27.TRS as H2S		0.006	0.0001	46	0.006	0.0001
189.SN28						189.SN28.TRS as H2S		0.19	0.0017	47	0.19	0.0017
190.R405						190.R405.TRS as H2S		0.379	0.0070	48	0.379	0.0070
190.R406						190.R406.TRS as H2S		0.647	0.0090	49	0.647	0.0090
196.SN-08North					Flow data used were from con-current PM testing (3 60-min runs)	196.SN-08North.TRS as H2S		0.05	0.0006	50	0.05	0.0006
196.SN-08South					Flow data used were from con-current PM testing (3 60-min runs)	196.SN-08South.TRS as H2S		0.05	0.0006	51	0.05	0.0006
196.SN-15					Flow data not provided	196.SN-15.TRS as H2S		0.03	0.0003	52	0.03	0.0003
198.020						198.020.TRS as H2S		1.19	0.0110	53	1.19	0.0110
200.007_8, 007_9						200.007_8, 007_9.TRS as H2S		0.45	0.0040	54	0.45	0.0040
202.Smelt Dissolving Tank EU322						202.Smelt Dissolving Tank EU322.TRS as H2S		0.24	0.0041	55	0.24	0.0041
203.2DTScr			Yes	Only 1 run		203.2DTScr .TRS as H2S		0.22	0.0190	56	0.22	0.0190

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
226.SDT2					Reported non-detect for all three runs for MeSH, DMDS, and DMS--could not find any information on MDL	226.SDT2.TRS as H2S		0.3117	0.0058	57	0.3117	0.0058
240.RF02					H2S was the only TRS compound measured. Test report provided detcection limits but used 0 for determining the TRS concentration.	240.RF02.TRS as H2S		0.654	0.0097	58	0.654	0.0097
240.RF05					Concentration averages were calculated using 0 for non-detect TRS compounds (DMS and DMDS were all ND)	240.RF05.TRS as H2S		0.93	0.0078	59	0.93	0.0078
240.RF06					Concentration averages were calculated using 0 for non-detect TRS compounds (DMS and DMDS were all ND)	240.RF06.TRS as H2S		0.2	0.0017	60	0.2	0.0017
242.AA-012	yes	TRS data included a dilution factor, which was not accounted for in values reported here			Concentration averages were calculated using 0 for non-detect TRS compounds (only H2S was detected)	242.AA-012.TRS as H2S		1.626	0.0130	61	1.626	0.0130
243.R403					Flow rates are from concurrent PM test.	243.R403.TRS as H2S		0.99	0.0122	62	0.99	0.0122
243.R408					Concentration averages were calculated using 0 for non-detect compounds (DMS and DMDS were all ND). Flow rates are from concurrent PM test.	243.R408.TRS as H2S		0.39	0.0032	63	0.39	0.0032
531.RF10					DMDS was all ND. Used 0 for values for DMDS.	531.RF10.TRS as H2S		0.81	0.0050	64	0.81	0.0050
600.G0805					Run 1 was 3 hrs. Runs 2-3 were 1.5 hrs.	600.G0805.TRS as H2S		1.1	0.0130	65	1.1	0.0130
600.G0807					Did not provide all stack conditions--PM tests were not concurrent. Non-detect TRS compounds treated as 0.	600.G0807.TRS as H2S		0.8	0.0080	66	0.8	0.0080
615.25						615.25.TRS as H2S		0.28	0.0050	67	0.28	0.0050
617.P21						617.P21.TRS as H2S		0.4446	0.0130	68	0.4446	0.0130
208228535.002						208228535.002.TRS as H2S		2.7	0.0250	69	2.7	0.0250
208228535.008						208228535.008.TRS as H2S		1.5	0.0119	70	1.5	0.0119
102.SDTV10						102.SDTV10.TRS as H2S		0.816	0.0067	71	0.816	0.0067
135.007-1, 007-2					TRS as MeSH, DMS, and DMDS were all non-detects. Combined East and West stack values only given.	135.007-1, 007-2.TRS as H2S	Combined stacks given	1.1806	0.0127	72	1.1806	0.0127
140.57					TRS as H2S is the only pollutant given.	140.57.TRS as H2S		0.81	0.0153	73	0.81	0.0153
142.P7236						142.P7236.TRS as H2S		0.841666667	0.0130	74	0.841666667	0.0130
143.7005					TRS as MeSH, DMS, and DMDS were all non-detects.	143.7005.TRS as H2S		0.0547	0.0031	75	0.0547	0.0031
143.7015					TRS as MeSH, DMS, and DMDS were all non-detects.	143.7015.TRS as H2S		0.0074	0.0007	76	0.0074	0.0007
143.7025					TRS as MeSH, DMS, and DMDS were all non-detects.	143.7025.TRS as H2S		0.16	0.0062	77	0.16	0.0062
157.SDT						157.SDT.TRS as H2S		0.008	0.0002	78	0.008	0.0002
163.SD2906						163.SD2906.TRS as H2S		0.66	0.0086	79	0.66	0.0086
167.007SDT						167.007SDT.TRS as H2S		0.4639	0.0064	80	0.4639	0.0064
171.006						171.006.TRS as H2S	different dates	0.06	0.0022	81	0.06	0.0022
171.006						171.006.TRS as H2S	different dates	0.51	0.0188	82	0.51	0.0188
171.007						171.007.TRS as H2S	different dates	0.13	0.0047	83	0.13	0.0047
171.007						171.007.TRS as H2S	different dates	0.76	0.0272	84	0.76	0.0272
171.008						171.008.TRS as H2S	different dates	0.35	0.0041	85	0.35	0.0041
171.008						171.008.TRS as H2S	different dates	1.086666667	0.0130	86	1.086666667	0.0130
173.SDT						173.SDT.TRS as H2S		0.4169	0.0100	87	0.4169	0.0100
175.ST3A					Concentration is TRS as DMS. TRS as H2S, MeSH and DMDS were all non-detects	175.ST3A.TRS as H2S		0.143333333	0.0012	88	0.143333333	0.0012
185.05						185.05.TRS as H2S		0.196	0.0053	89	0.196	0.0053
188.015SD1						188.015SD1.TRS as H2S		0.119583333	0.0041	90	0.119583333	0.0041

RTI+EUID	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment	Duplicate check: RTICode+EmissionUnitID+Pollutant	Duplicate_Emission_Unit_Poll_notes	Unit total lb/hr	Unit total EF, lb/production	Sort order	Unit total lb/hr (values)	Unit total EF (values)
188.017SD2						188.017SD2.TRS as H2S		0.12436	0.0041	91	0.12436	0.0041
199.004					TRS as MeSH, DMS, and DMDS were all non-detects.	199.004.TRS as H2S		0.73	0.0100	92	0.73	0.0100
201.SR0034					TRS runs were taken within the runs of the other pollutants. The summary sheet for TRS did not have all the parameters needed for this spreadsheet. Therefore many points came for the summary sheet of the other pollutants.	201.SR0034.TRS as H2S		1.2	0.0145	93	1.2	0.0145
205.010						205.010.TRS as H2S		0.146666667	0.0029	94	0.146666667	0.0029
206.G-35						206.G-35.TRS as H2S		0.032766667	unspecified	95	0.032766667	unspecified
206.G-36						206.G-36.TRS as H2S		0.043633333	unspecified	96	0.043633333	unspecified
606.SDT2					TRS as MeSH, DMS, and DMDS were all non-detects.	606.SDT2.TRS as H2S		0.404	0.0090	97	0.404	0.0090
606.SDT3					TRS as MeSH, DMS, and DMDS were all non-detects.	606.SDT3.TRS as H2S		0.381	0.0093	98	0.381	0.0093
606.SDT4					TRS as MeSH, DMS, and DMDS were all non-detects.	606.SDT4.TRS as H2S		0.903	0.0137	99	0.903	0.0137
610.10					Weak wash scrubber flow	610.10.TRS as H2S	Separate conditions: weak wash scrubber	0.72	0.0110	100	0.72	0.0110
610.10					Water wash scrubber flow	610.10.TRS as H2S	Separate conditions: water scrubber	1.32	0.0210	101	1.32	0.0210
610.9					Weak wash scrubber flow	610.9.TRS as H2S	Separate conditions: weak wash scrubber	0.52	0.0110	102	0.52	0.0110
610.9					Water wash scrubber flow	610.9.TRS as H2S	Separate conditions: water scrubber	0.2	0.0040	103	0.2	0.0040
133.12a	yes	Modified Method 16 uses many other forms of Sulfur to calculate total TRS.	Yes	30-min sample; modified method	One thirty minute integrated sample. Modified Method 16 Total TRS includes TRS as Hydrogen Sulfide, Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimeththyl Sulfide, Carbon Disulfide, Isopropyl Mercaptan, Ter-Butyl Mercaptan, n-Propyl Mercaptan, Ethyl Methyl Sulfide, Thiophene, Isobutyl Mercaptan, Dimethyl Disulfide, 3-Merhylthiophene, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, and Diethyl Disulfide.			0.004	unspecified	104	0.004	unspecified
133.12b	yes	Modified Method 16 uses many other forms of Sulfur to calculate total TRS.	Yes	30-min sample; modified method	One thirty minute integrated sample. Modified Method 16 Total TRS includes TRS as Hydrogen Sulfide, Carbonyl Sulfide, Methyl Mercaptan, Ethyl Mercaptan, Dimeththyl Sulfide, Carbon Disulfide, Isopropyl Mercaptan, Ter-Butyl Mercaptan, n-Propyl Mercaptan, Ethyl Methyl Sulfide, Thiophene, Isobutyl Mercaptan, Dimethyl Disulfide, 3-Merhylthiophene, Tetrahydrothiophene, 2-Ethylthiophene, 2,5-Dimethylthiophene, and Diethyl Disulfide.			0.205	unspecified	105	0.205	unspecified
132.4SDT					Flow rate from PM test was used in TRS test. TRS emission rates provided in lb/K# BLS - converted.	132.4SDT.TRS as H2S		0.507633333	0.0077	106	0.507633333	0.0077
148.002, SCMT1					The PIII emissions test data tab indicated the salt cake tank was included in the test; however, the test report does not specify whether the SCMT enhausts into the SDT	148.002, SCMT1.TRS as H2S	different dates	0.696	0.0118	107	0.696	0.0118
148.008, SCMT2					The PIII emissions test data tab indicated the salt cake tank was included in the test; however, the test report does not specify whether the SCMT enhausts into the SDT	148.008, SCMT2.TRS as H2S	different dates	1.35	0.0181	108	1.35	0.0181
148.002					A separate test of the SDT was performed on 9/28/10 but was discarded because it exceeded the limit (0.0458 > 0.033 lb/ton BLS); only the repeat test is provided for compliance.	148.002.TRS as H2S	different dates	1.64	0.0270	109	1.64	0.0270
203.2DTScr		Engineering test. Plant personel provided CEMS data for emission factor.	Yes	Only 1 run	Engineering test. Plant personel provided CEMS data for emission factor.	203.2DTScr .TRS as H2S	different dates	unspecified	0.0250	110	unspecified	0.0250
203.2DTScr		Engineering test. Plant personel provided CEMS data for emission factor.	Yes	Only 1 run	Engineering test. Plant personel provided CEMS data for emission factor.	203.2DTScr .TRS as H2S	different dates	unspecified	0.0320	111	unspecified	0.0320
203.2DTScr		No flow data. Engineering test.	Yes	No flow data	4 runs were conducted: 2 as found (~19 ppm each), 1 with caustic on (10.88 ppm), and 1 with caustic on and pH increase (7.57 ppm)	203.2DTScr .TRS as H2S	different dates	unspecified	unspecified	112	unspecified	unspecified
610.10					Normal weak wash scrubber flow	610.10.TRS as H2S	Different dates and Separate conditions: Normal weak wash scrubber flow	1.02	0.0200	113	1.02	0.0200
610.10					Low weak wash scrubber flow	610.10.TRS as H2S	Different dates and Separate conditions: Low weak wash scrubber flow	1.689	0.0290	114	1.689	0.0290
610.10					Low water wash scrubber flow	610.10.TRS as H2S	Different dates and Separate conditions: Low water wash scrubber flow	1.43	0.0240	115	1.43	0.0240
610.9					Weak wash scrubber flow	610.9.TRS as H2S	Different dates and Separate conditions: Weak wash scrubber flow	1.1	0.0250	116	1.1	0.0250
610.9					Water scrubber flow	610.9.TRS as H2S	Different dates and Separate conditions: Water scrubber flow	1.29	0.0290	117	1.29	0.0290
610.10					Weak wash scrubber flow	610.10.TRS as H2S	Different dates and Separate conditions: Weak wash scrubber flow	1.28	0.0200	118	1.28	0.0200
610.10					Water scrubber flow	610.10.TRS as H2S	Different dates and Separate conditions: Water scrubber flow	1.99	0.0310	119	1.99	0.0310