LAKELAND ELECTRIC

Your Essential Link to a Quality Life

CERTIFIED MAIL

RECEIVED
MAR 17 2008
BUREAU OF AIR REGULATION

March 14, 2008

Mr. Ryan DeRosa
Bureau of Air Regulation
Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: C.D. McIntosh Power Plant – Permit 1050004-018-AC Revision
CO Monitor Test Submittals

Dear Mr. DeRosa:

Please find the enclosed test reports performed on E.U. ID No. 006 (McIntosh Unit 3) with regards to Permit 1050004-018-AC. These test reports are being submitted to supplement the Title V revision application submitted earlier this month for this facility to incorporate the above construction project.

If you have any questions, please do not hesitate to contact me at (863) 834-8180.

Sincerely,

Bret Galbraith, E.I.
Environmental Permitting

Enclosure

501 E. Lemon St. ✧ Lakeland, Florida 33801
Phone: 863.834.6300 ✦ Fax: 863.834.6344

LAKELAND ELECTRIC

Your Essential Link to a Quality Life

FEDEX DELIVERY

November 14, 2007

Air Compliance Section, Compliance Supervisor
Department of Environmental Protection
13051Telecom Parkway
Temple Terrace, Florida 33637-0926

Re: Facility Name: Lakeland Electric, C.D. McIntosh, Jr. Power Plant
Facility ID No. 1050004, E.U. ID No. 006 (McIntosh Unit 3)

Subject: CO and NOX Initial Compliance Report

Dear Sir or Madam:

Enclosed please find the CO and NOX Compliance Emissions (E.U. 006; Unit 3) report for the above referenced facility. Source Testing and Consulting Services, Inc. conducted the testing on October 1 and October 2, 2007 in connection with (Permit 1050004-18-AC) the retro fit of Unit 3 with low NOX burners (LNB) and over-fire air (OFA).

Also enclosed is a Responsible Official Certification form signed by Mr. Timothy Bachand, Manager of Engineering for Lakeland Electric.

If you should have any questions concerning this submittal please contact me at (863) 834-6169.

Sincerely,

Douglas Doerr
Environmental Coordinator
doug.doerr@lakelandelectric.com

501 E. Lemon St. ✦ Lakeland, Florida 33801
Phone: 863.834.6300 ✦ Fax: 863.834.6344

Owner/Authorized Representative or Responsible Official

1. Responsible Official Name:

Timothy Bachand P.E., Manager of Engineering

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: **Lakeland Electric**
Street Address: **501 E. Lemon St.**
City: **Lakeland** State: **Florida** Zip Code: **33801-5079**

3. Owner/Authorized Representative Telephone Numbers:

Telephone: **(863) 834-6633** ext. Fax: **(863) 834-5670**

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative (check here [ ], if so) or the responsible official (check here [X], if so) of the Title V source addressed in this submittal whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit*

Item(s) Certified: McIntosh Unit 3 CO and NOX Compliance - October 2007
1050004-018-AC

Signature

11/13/07
Date

EMISSION TEST REPORT

PERMIT COMPLIANCE TEST

LAKELAND ELECTRIC
C.D. McINTOSH, JR POWER PLANT
UNIT 3
LAKELAND, FLORIDA
Permit # 1050004-18-AC
Facility/Emissions Unit # No. 1050004-006

Prepared for:

Lakeland Electric
501 East Lemon Street
Lakeland, Florida 33801-5079

Prepared by:

Source Testing And Consulting Services, Inc.
1100 Purple Glory Drive
Apex, North Carolina 27502

October 2007

TABLE OF CONTENTS

1.0 INTRODUCTION

1.0 INTRODUCTION

Source Testing And Consulting Services, Inc. (STACS) is under contract to Lakeland Electric to conduct a permit compliance test for nitrogen oxides (NO_x) and carbon monoxide (CO) at Unit 3 at the C. D. McIntosh, Jr. Power Plant in Lakeland, Florida. The construction permit number is 105004-018-AC. The address of the facility is:

C.D. McIntosh, Jr. Power Plant
3030 East Lake Parker Drive
Lakeland, FL 33805

McIntosh Unit 3 is a balanced-draft steam generator that has recently been retrofitted with Low NO_x burners and over-fire air. The Construction Air Permit for the modification included the addition of a limit for CO, and requires an initial compliance demonstration. This document presents the results of the initial compliance test for nitrogen oxides (NO_x) and carbon monoxide (CO) following the modification.

The facility is a fossil fuel fired steam generator used to produce electricity. The boiler is a balanced-draft unit nominally rated at a heat input rate of about 3600 MMBtu/hr, with a steam production rate of approximately 296 klb/hr. The operating rate during these tests was 98.7% of the rating. The fuel fired during these tests was a mixture of bituminous coal and petroleum coke.

Testing was conducted during October 1-2, 2007. Preliminary preparations were completed on October 1, and three 96-minute test runs were performed on October 2.

EPA Reference Methods 7E for NO_X, 10 for CO, and 3A for CO_2 were used for this test.

The tests show that the CO and NO_x emissions from Unit 3 were less than the permit requirements.

Section 2.0 of this document provides a brief description of the process and the sampling locations. Section 3.0 presents the test results. Section 4.0 outlines the procedures and test methods used, and Section 5.0 discusses the quality assurance/quality control measures followed during sampling and analysis. Sample calculations, raw data, calibration and certification records, a list of project participants are included in the appendices to this report.

2.0 PROCESS DESCRIPTION AND SAMPLING LOCATION

2.0 PROCESS DESCRIPTION AND SAMPLING LOCATION

2.1 PROCESS DESCRIPTION

McIntosh Unit 3 is a fossil fuel fired steam generator used to produce electricity. The unit fires bituminous coal primarily, but can also fire a mixture of coal and petroleum coke if additional heating value for the fuel is needed.

The emissions from Unit 3 are controlled by an electrostatic precipitator for particulate matter reduction followed by a wet scrubber for sulfur dioxide removal. Modifications to the unit have recently been completed to add low NO_x burners for nitrogen oxides reduction.

2.2 REFERENCE METHOD SAMPLING LOCATIONS

The exhaust stack for Unit 3 is circular with an inside diameter of 18 ft. The stack height is 275 ft. The emission test ports are located at approximately 256 ft elevation. The stack test port location meets the minimum requirements of EPA Method 1.

Four emissions test ports are available for sampling in the same plane around the circumference of the stack. The test port length is 48 inches. A 12-point stratification test was performed according to EPA Method 7E criteria for the gaseous testing to determine the number and location of test points required to be used for subsequent gaseous sampling.

3.0 EMISSION TEST RESULTS

3.0 EMISION TEST RESULTS

Compliance testing at Unit 3 was conducted during October 1-2, 2007. Preliminary tests including a NO_x instrument converter test, response time tests for the analyzer system, and a 12-point stratification check test were performed on October 2.

The converter test met the requirement of EPA Method 7E. The response time test showed that the response time for the CO_2 analyzer was one minute, two minutes for the CO analyzer, and four minutes for the NO_x analyzer. Thus, the minimum sampling time at each point used for sampling was eight minutes.

The 12-point stratification check required that all twelve points be used for each test run. This resulted in a sampling time of 96 minutes per run.

Three 96-minute test runs were conducted on October 2. Tests were conducted for NO_X, CO and diluent CO_2.

The emission test results are summarized in Table 3-1. The permit emission limits for both CO and NO_x were met. Supporting data including instrumental raw data, operating data, quality assurance information and calculations are included in the appendices to this document.

Table 3-1. Emissions Test Results
Lakeland Electric Company
Lakeland , Florida
McIntosh Unit 3

Parameter Run Number	**2**	**3**	**4**	**Average**	**Permit Limit**
Test Date:	2-Oct-07	2-Oct-07	2-Oct-07		
Start Time:	7:46	10:35	14:55		
Stop Time:	9:46	12:49	16:58		
Operating Parameters:					
Unit Load, MW	364.0	363.0	361.0	362.7	
Steam Rate, klb/hr	292.8	292.7	293.4	293.0	
Fuel Flow, ton/hr	146.5	146.5	146.5	146.5	
Fuel Gross Heating Value, Btu/lb	12,263	12,263	12,263	12,263	
Gross Heat Input:	3592.2	3592.2	3592.2	3592.2	
Fc, Fuel Factor	1800	1800	1800	1800	
Emissions Data:					
Carbon Dioxide, % vol dry	11.81	11.65	11.62	11.69	
Stack Gas Moisture Content, % vol	11.66	14.65	12.71	13.01	
Nitrogen Oxides:					
Concentration, ppmvd	179.7	177.0	171.6	176.1	
Concentration, ppmvd at 12% CO2	176.9	171.8	166.2	171.6	
Emission Factor, lb/MMBtu	0.327	0.327	0.317	0.324	0.70
Emission Rate, lb/hr	1175.1	1173.4	1140.5	1163.0	
Carbon Monoxide:					
Concentration, ppmvd	9.5	10.1	8.6	9.4	
Concentration, ppmvd at 12% CO2	9.3	9.8	8.3	9.2	
Emission Factor, lb/MMBtu	0.0105	0.0113	0.0097	0.0105	0.20
Emission Rate, lb/hr	37.8	40.7	34.8	37.8	

Notes:
Fuel Factor (Fc) = 1800 scf / MMBtu from 40CFR60 Appendix A, Method 19

Reference - Source Testing And Consulting Services, Inc. 2007

4.0 EPA TEST PROCEDURES

4.0 EPA TEST PROCEDURES

The Permit Compliance Test was conducted in strict accordance with the specifications of 40CFR75 and 40CFR60 of the Code of Federal Regulations for fossil fuel fired steam generators. The tests were conducted in accordance with EPA Reference Test Methods as outlined in 40CFR60, Appendix A.

Specifically, the following test procedures were used.

EPA Method 3A:	Continuous determination of oxygen and carbon dioxide content in the flue gas. A fuel cell analyzer was used for O_2 determination, and an NDIR analyzer was used for CO_2 measurement.
EPA Method 7E:	Oxides of Nitrogen (NO_X) analysis with a chemiluminescent continuous emissions analyzer.
EPA Method 10:	Carbon Monoxide (CO) analysis with a GFC/NDIR continuous emissions analyzer.

All procedures and quality control guidelines specified in the appropriate methods are strictly followed during the test program, in addition to STACS' more stringent internal quality control standards.

4.3 INSTRUMENTAL REFERENCE METHODS

Stack gas emissions of oxides of nitrogen (NO_X) and carbon monoxide (CO) were measured using continuous instrumental techniques. Diluent carbon dioxide (CO_2) concentration was also measured using continuous instrumental techniques. These tests

were performed in accordance with EPA Method 3A for CO_2, Method 10 for CO, and Method 7E for NO_X as outlined in Title 40, Part 60, Appendix A of the Code of Federal Regulations. Copies of all on-line instrumental reference method data collected during the testing are included in Appendix C of this document. Calibration records are provided in Appendix D.

Flue gas sample is withdrawn from the stack at a constant rate via a heated stainless steel sample probe. The sample probe was equipped with an additional stainless steel line to enable probe tip calibrations. The probe was of sufficient length to allow traversing the duct as required by the performance specifications and the applicable test methods. Extracted sample was passed from the probe through a filter and a heated teflon sample line to the moisture removal system. The moisture removal system (gas conditioner) was designed for minimal contact between condensate and sample gas in order to prevent any reaction between the moisture and the measured pollutants. All components of the sampling and gas conditioning system were fabricated from glass, teflon, or stainless steel. The gas conditioning system uses an ice bath to reduce the gas temperature and condense out moisture present in the gas. Moisture was continuously removed from the traps by an external peristaltic pump. Dry gas sample from the gas conditioner then passed through an unheated 1/4-inch O.D. teflon tube to a teflon-lined diaphragm pump, which delivered positive pressure sample to the instrument system. Flow control valves were used to deliver the gas sample at a regulated positive pressure to the reference method analytical instruments through a teflon and stainless steel manifold delivery network. Flow and pressure to all monitors was held constant by monitoring sample and bypass rotameters. A diagram of the instrumental reference method sampling and analysis system used for the test program is given in Figure 4-1.

The sampling system was leak checked by passing known calibration gas standards up through a calibration line to the end of the probe. The gas standards were then pulled

back through the sampling probe at stack pressure and subsequently through the entire sampling system to the instrument system. An oxygen analyzer response of less than or equal to 0.5% V to a zero oxygen standard was considered an acceptable leak check. Analyzer calibration error was calculated by the difference between the known calibration gas concentration and the concentration exhibited by the analyzer. Bias checks were performed by comparing calibration responses through the entire sampling system to these exhibited at the analyzer. EPA Protocol #1, NIST traceable standard calibration gases were used to calibrate the analyzers.

Acceptable system performance checks did not exceed +/-2% of span linearity (calibration error), +/-5% of span system bias check, +/-3% of span zero drift, and +/-3% of span upscale span drift. Note that span is defined at the value of the high level calibration gas used.

Instrument response time was found by alternating zero nitrogen and upscale span gases through the bias check line and recording the upscale and down scale time for a 95% response. A response time test of the CEM sampling system was performed to determine the length of time for the reference method system to respond to changes in the stack gas exhaust stream. Known, Protocol 1 reference gases and zero nitrogen were passed through the heated sample line, sample conditioning system and the manifold delivery network to the continuous emission monitors.

4.4 STRATIFICATION TESTS

A preliminary 12- point stratification was conducted at the stack as described in section 6.5.6.1 of 40CFR75, Appendix A and EPA Method 7E. The apparent stratification required that 12 points be traversed per run.

4.5 DATA ACQUISITION

The STACS data acquisition system (DAS) for the CEM analyzers consists of a Windmill Microlink 751 and a proprietary STACS Data Acquisition program. The data are stored on disk as well as on a printed hard copy for each run. The system has 16-bit analog to digital conversion resolution (1 in 64,000) and a scan rate of approximately 1200 readings per minute. Data is averaged and reported by the DAS on a 30 second basis. The averaging time may be changed if desired. The system is capable of displaying the on line results in measured units and in lb/MMBtu. Averages are generated immediately at the end of each test run.

4.6 REFERENCE METHOD ANALYZER PRINCIPLES OF OPERATION

4.6.1 METHOD 3A: CARBON DIOXIDE ANALYSIS

A nondispersive infrared (NDIR) analyzer was used to measure CO_2.

4.6.2 METHOD 7E: OXIDES OF NITROGEN ANALYSIS

Two Thermo Electron Model 42 instruments were used to analyze NO_X. The principle of operation of this instrument is a chemiluminescent reaction in which ozone (O_3) reacts with nitric oxide (NO) to form oxygen (O_2) and nitrogen dioxide (NO_2). During this reaction, a photon with a specific ultraviolet wavelength is emitted which is detected by a photo multiplier tube. The instrument is capable of analyzing total oxides of nitrogen ($NO + NO_2$) by thermally converting NO_2 to NO in a separate reaction chamber prior to the photo multiplier tube, if desired. The analyzer is operated in the NO_X mode during sampling.

A convertor efficiency test was performed on the analyzer prior to the test series. (See Section 5.2 for a description of the converter efficiency test.)

4.6.3 METHOD 10: CARBON MONOXIDE ANALYSIS

A TECO 48C Gas Filter Correlation Non-Dispersive Infrared (GFC/NDIR) analyzer was used for continuous CO analysis. The principle of operation of this analyzer is similar to traditional NDIR analyzers in that it relies on selective absorption; whereby, particular band widths of infrared energy are absorbed by a species based on its molecular orbital structure. Gas filter correlation NDIR differs from NDIR in the detection mechanism and because the GFC/NDIR does not require a reference cell. Infrared radiation passes through a rotating filter, through the sample cell and to the detector. The chopper wheel of the GFC/NDIR is a rotating disk separated into two chambers where one half is filled with nitrogen and the other half is filled with pure CO. These gas filled partitions act as alternating optical filters for the incident IR radiation from the IR source. The CO gas filter side acts to produce a signal which cannot be further attenuated by CO in the sample cell and is used as a reference signal. The nitrogen filter allows all incident radiation to pass. Carbon monoxide in the sample cell, therefore, attenuates the signal proportionally to concentration. This is considered the measurement cycle. Any other gases which absorb infrared radiation are absorbed equally during both the measurement and reference cycles, providing a real-time reference and minimal interferences. The detector for this analyzer is a lead-selenium photo detector.

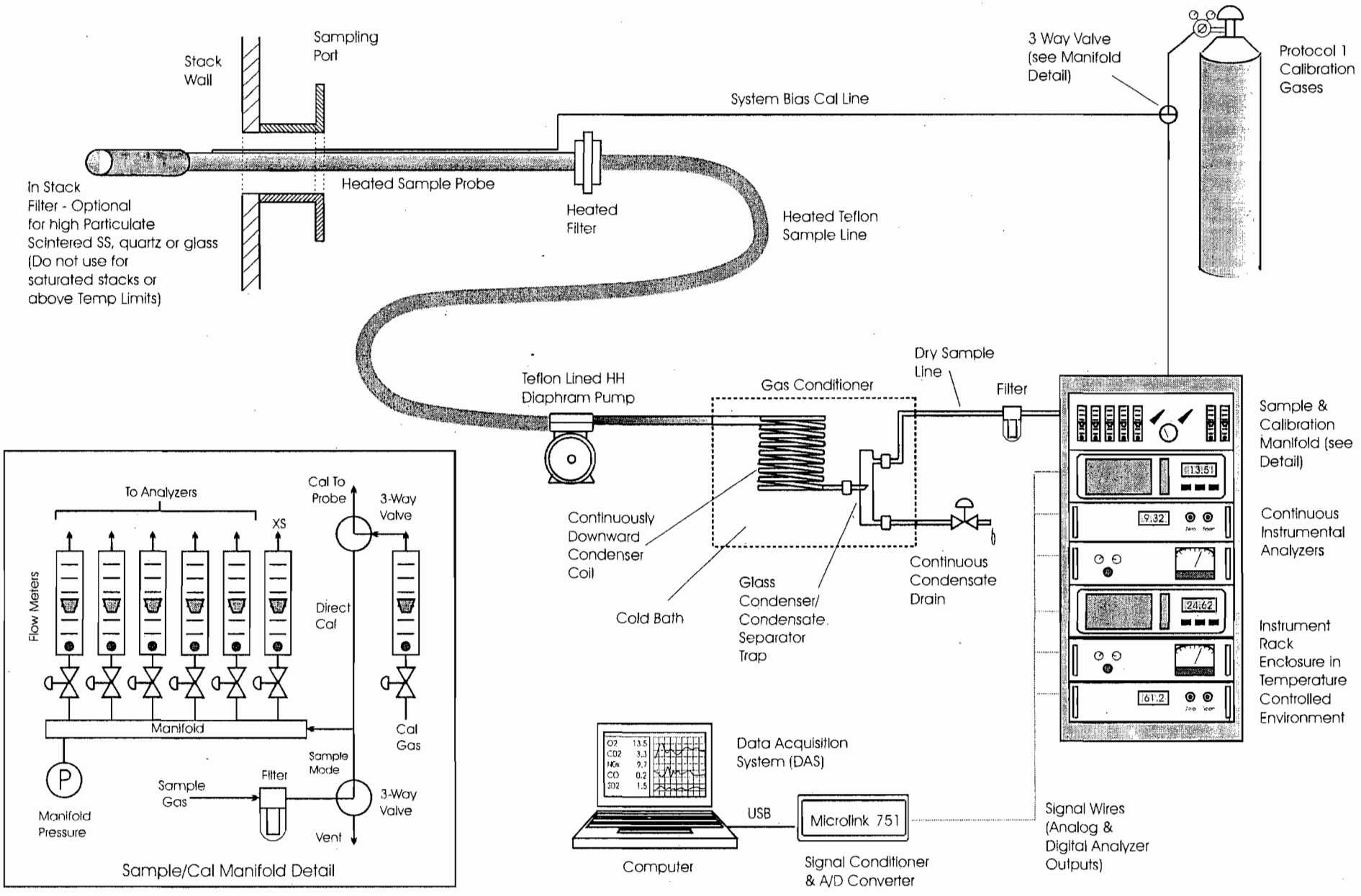

Figure 4-1. Schematic Diagram of STACS Instrumental Reference Method System

5.0 QUALITY ASSURANCE/QUALITY CONTROL

5.0 QUALITY ASSURANCE/QUALITY CONTROL

Strict Quality Assurance/Quality Control (QA/QC) measures were observed for all sampling and analysis performed for the McIntosh Unit 3 emissions test program. The STACS QA/QC program is designed to provide the highest quality data in terms of the accuracy and precision of the measurements as well as the completeness, representativeness and comparability of the results.

Accuracy is the degree to which a measurement agrees to the true value or to an accepted reference value. Precision is the degree of reproducibility (or agreement) of a set of individual measurements of an identical property.

The objective of the overall QA/QC program is to provide guidelines in terms of accuracy and precision that can be used to assess the uncertainty in the results and to substantiate the data in terms of the use of accepted procedures. Quality Control can be defined as the use of operational techniques and activities, which sustain good quality data. Adherence to accepted sampling and analytical methods and procedures (and specifically noting any aberrations or exceptions to these procedures) is an example of quality control. Quality Assurance includes all those planned and systematic activities necessary to ensure that the accuracy and precision of the results meets the needs of the testing program. Quality Assurance programs can be internal or external.

Both internal and external programs are important to the overall integrity of the data. The internal QA program includes the activities planned by routine operators and analysts to provide an assessment of test data precision (and accuracy). Examples of implementation of an internal QA measure are routine calibration checks to assess the bias and drift of an analyzer after each test run. The measurement system bias is an indicator of the accuracy of the system and the drift is an indication of the precision of the measurements. External

QA programs are those activities planned or conducted by an outside party or agency (such as the facility or regulatory authorities), which ensure that QC guidelines are followed and provide an indicator of the accuracy of the data. Examples of external QA procedures implemented by an outside entity would include review of the test matrix, observation of selected testing to ensure proper techniques are followed, submission of independent performance audits, and review of the final testing data.

The quality assurance/quality control measures for sampling and analysis included in the following documents were strictly followed during the emissions test program, except as noted below and elsewhere in this document. The procedures are incorporated by reference into the quality assurance program for this effort as they apply to the collection, analysis, and calculation of pollutant concentrations and mass emission rates from the unit.

> The Code of Federal Regulations, Title 40, Part 60, Appendix A., EPA Methods 3A, 10 and 7E.
> The Quality Assurance Handbook for Air Pollution Measurement Systems - Volume III - Stationary Source Specific Methods (EPA-600/4-77-027b) Sections 3.0-3.4.

The external QA program for this test series included monitoring of the test procedures by representatives of Lakeland Electric and FDEP.

Experienced air quality personnel conducted the emissions testing project. Mr. Bill Mayhew of STACS was the project director and principal coordinator for the program. Mr. Mayhew has a B.S. in Chemical Engineering and is a Principal Engineer with over 20 years experience in emissions testing. Mr. Mayhew reviewed all data collected and calculations performed and participated in the production of the final report.

Mr. Winton Kelly was a member of the field team and the QA/QC coordinator for the project. Mr. Kelly has an M.S. in Chemical Engineering and over 35 years experience in emissions testing and is a former employee of the USEPA, Emissions Measurement Branch (EMB). The emissions test crew consisted Winton Kelly (35 years experience) and Mike Dickerson (14 years experience).

The following sections provide a description of the internal quality control activities that were used for this test program.

5.1 CALIBRATIONS AND DRIFT ASSESSMENTS

At the beginning of each test day, the EPA Reference Method 7E, 10 and 3A test equipment is calibrated, and adjusted as required, on a two-point basis. EPA Protocol #1, NIST traceable standard calibration gases are used to calibrate the analyzers. Subsequently, additional calibration standards are introduced to the analyzers to check the linearity of the instrument response. If the linearity of the instrument is within +/-2% of span of the calibration standard value, the calibration is accepted. Otherwise, corrective maintenance is performed, and the instrument is re-calibrated. During this time, bias checks are also performed by introducing calibration standards directly to the instrument manifold and through the entire sampling system and comparing the results.

Calibration checks are performed through the entire sampling system at the conclusion of each test run to determine calibration drift and any change in sample system bias. EPA Methods 3A, 7E, 10 require a bias/drift correction to be applied to the test data for each run based on pre-test and post-test bias and drift calibration checks. All measured gaseous pollutants concentrations were corrected for bias and drift for this test program.

Sampling system bias is assessed by introducing a mid-range or high-range gas through the sampling system and back to the analyzers. The maximum allowable bias is 5% of the value the analyzer read for the same gas when introduced to the probe tip as a percent of the span of the analyzer.

Sampling system bias and drift checks are subsequently performed at the conclusion of each test run or the bias exceeds 5%. Corrective actions are taken if the drift checks exceed 3% of span after any test run. All calibration gases are EPA Protocol 1, NIST traceable standards with a rated accuracy of +/- 1%. Calibration gas analysis certificates are included in the Appendix C of this test report.

5.2 NO_2 CONVERTER EFFICIENCY

An NO_2 to NO converter efficiency test is performed prior to sampling as prescribed in EPA Method 7E and 20. The procedure used for testing the converter efficiency is given below:

- Fill a leak-free Tedlar bag approximately half full with an NO in N_2 blend.
- Fill the remainder of the bag with 0.1 UHP grade air.
- Immediately attach the NO/Air mixture to the inlet of the NO_X monitor being used.
- Allow the monitor to sample the gas in the bag for 30 minutes.

As the O_2 and NO in the bag are exposed to each other a reaction occurs which changes the NO to NO_2. An attenuation in response over time of less than two percent absolute indicates that the converter efficiency is acceptable. Appendix C contains the NO_X convertor test results.

5.3 INSTRUMENT RESPONSE TIME

Maximum instrument system response time is determined by alternately passing zero and span gas through the entire sampling system and noting the time required for the monitors to achieve a change of 95% of the final concentrations. Both upscale and down scale response times are recorded. The supporting data sheets are included in the Appendices.

5.4 LEAK CHECKS

Since all calibrations are performed through the entire sampling system, leak-checks are incorporated in each calibration. The criterion used for this test is an oxygen response to a zero gas of less than 0.5% O_2. Leak checks are also incorporated into the zero and span drift checks at the end of each run since the calibration gas is passed through the entire sampling system for each post test drift check.

APPENDIX A
EXAMPLE CALCULATIONS AND DATA SUMMARIES

To Convert Pollutant Concentrations to 12% CO_2

$$ppmV\ @\ 12\%\ O_2 = ppmV\ x\ \frac{12}{CO2}$$

where:

ppmV = The concentration of the pollutant in parts per million by volume, dry basis.

CO_2 = The concentration of CO_2 in percent volume, dry basis.

ppmV @ 12% O_2 = The concentration of the pollutant normalized to 12% O_2.

To Convert Pollutant Concentrations to lb/MMBtu

$$lb/MMBtu = ppmV \times CONV \times Fc \times \frac{100}{C_{O_2}}$$

where:

ppmV = The concentration of the pollutant in parts per million by volume, dry basis.

CO_2 = The concentration of carbon dioxide in percent volume, dry basis.

lb/MMBtu = Pollutant emission rate in pounds per million Btu.

F_c = The CO2 based dry F-factor for a given fuel. (1800 dscf/MMBtu for bituminous coal)

CONV = conversion factor to convert pollutant concentration in ppmV to lb/scf.

CONV = 2.596E-9 x MW scf ppmV (MW for NO_X = 46, for CO 28).

TO BIAS/DRIFT CORRECT RAW DATA FOR EPA METHODS 3A, 7E, 10 and 20:

$$C_{gas} = (\bar{C} - C_o)\frac{C_{ma}}{C_m - C_o}$$

Where:

C_{gas} = Effluent gas concentration, dry basis, ppm V or %V

$\underline{C}$ = Average gas concentration indicated by gas analyzer, dry basis, ppm V or %V

C_o = Average of initial and final system calibration bias check responses for the zero gas, ppm V or %V

C_m = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppm V or %V

C_{ma} = Actual concentration of the upscale calibration gas, ppm V or %V

LAKELAND ELECTRIC
Unit #3
Compliance Test
Bias/Drift Correction Calculation Spreadsheet

Run #		**2**	**3**	**4**
Date		10/2/07	10/2/07	10/2/07
Run Time		0746-0946	1035-1249	1455-1658
REFERENCE METHOD				
#/MMBtu	Fc (Bituminous)	1800	1800	1800
NOX #/MMBtu		0.327	0.327	0.318
CO #/MMBtu		0.0105	0.0113	0.0097
Wet Reference Values				
CO2 (%V,wet)		10.43	9.95	10.14
NOX (ppmV,wet)		158.7	151.1	149.8
CO (ppmV, wet)		8.41	8.58	7.54
BIAS ADJUSTED VALUES	**PRELIM**	**2**	**3**	**4**
CO2 (%V,dry)	#N/A	11.81	11.65	11.62
NOX (ppmV,dry)	#N/A	179.7	177.0	171.6
CO (ppmV, dry)	#N/A	9.5	10.1	8.6
RAW AVERAGES	**PRELIM**	**2**	**3**	**4**
CO2 (%V,dry)	#N/A	11.66	11.40	11.30
NOX (ppmV,dry)	#N/A	181.5	179.6	173.4
CO (ppmV, dry)	#N/A	9.5	10.0	8.5
Moisture (%)	calculated on next sheet	11.66%	14.65%	12.71%
ZERO BIAS	**PRELIM**	**2**	**3**	**4**
CO2 (%V,dry)	-0.18	-0.14	-0.11	-0.10
NOX (ppmV,dry)	0.4	0.2	1.5	1.2
CO (ppmV, dry)	0.0	0.4	0.2	0.02
BIAS CHECKS	**LB**	**2**	**3**	**4**
CO2 (%V,dry)	8.88	8.86	8.73	8.77
NOX (ppmV,dry)	242.7	249.9	244.7	247.2
CO (ppmV, dry)	46.8	45.6	45.6	46.1
BIAS GAS VALUES	**LB**	**2**	**3**	**4**
CO2 (%V,dry)	9.02	9.02	9.02	9.02
NOX (ppmV,dry)	244	244	244	244
CO (ppmV, dry)	47.3	47.3	47.3	47.3
Zero Drift (% of span) 3%		**2**	**3**	**4**
CO2 (%V,dry)	#N/A	0.44%	0.33%	0.11%
NOX (ppmV,dry)	#N/A	-0.05%	0.53%	-0.12%
CO (ppmV, dry)	#N/A	0.97%	-0.38%	-0.47%
Upscale Drift (% of span) 3%	#N/A	**2**	**3**	**4**
CO2 (%V,dry)	#N/A	-0.22%	-1.44%	0.44%
NOX (ppmV,dry)	#N/A	2.96%	-2.14%	1.04%
CO (ppmV, dry)	#N/A	-2.49%	-0.15%	1.12%
Zero System Bias (% of span) 5%	**CE**	**2**	**3**	**4**
CO2 (%V,dry)	-0.19	0.55%	0.89%	1.00%
NOX (ppmV,dry)	0.29	-0.02%	0.50%	0.38%
CO (ppmV, dry)	0.03	0.82%	0.44%	-0.02%
Upscale System Bias (% of span) 5%	**CE**	**2**	**3**	**4**
CO2 (%V,dry)	8.9	-0.44%	-1.88%	-1.44%
NOX (ppmV,dry)	249.88	0.02%	-2.12%	-1.08%
CO (ppmV, dry)	47.19	-3.30%	-3.45%	-2.33%

Note: Span is defined as the value of the upscale calibration gas.
Reference: Source Testing And Consulting Services, Inc - 2007

Lakeland Electric Unit 3
Compliance Test
2-Oct-07

Calculated Values	2	3	4
Bws (%V)	11.66%	14.65%	12.71%
Vmstd (DSCF)	29.622	28.247	28.132

MOISTURE INPUTS	2	3	4
Meter Fact (Y)	1.0050	1.0050	1.0050
Pb ("Hg)	29.88	29.88	29.90
Vm (cf)	29.822	28.878	29.159
Vlc (g)	83.1	103	87
Tm (F)	75.6	83.9	91.8
Delta H ("H2O)	1.76	1.76	1.76
Ts (F)	148.8	151.5	149.4

Lakeland Electric McIntosh Plant
Unit 3
Base Load Stratification Traverse Data
10/1/2007

	CO2				NOx				C0			
Point/Port	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW
PT 3	11.57	11.59	11.41	11.50	167.32	176.36	176.88	176.55	4.58	8.33	4.69	3..77
PT 2	11.51	11.47	11.46	11.42	175.04	176.40	176.21	174.71	3.82	4.19	6.34	3.90
PT 1	11.63	9.43	11.51	10.24	176.19	145.38	175.22	156.44	10.49	7.88	5.95	4.02
Average	11.57	10.83	11.46	11.05	172.85	166.05	176.10	169.23	6.30	6.80	5.66	3.96
Min	11.51	9.43	11.41	10.24	167.32	145.38	175.22	156.44	3.82	4.19	4.69	3.90
Max	11.63	11.59	11.51	11.50	176.19	176.40	176.88	176.55	10.49	8.33	6.34	4.02
		CO2				**NOX**				**CO**		
	Overall Average=	11.23			Overall Average=	171.06			Overall Average=	5.84		
	Overall Min=	9.43	AVG-0.3%	10.93	Overall Min=	145.38	AVG-0.5PPM	170.56	Overall Min=	3.82	AVG-0.5PPM	5.34
	Overall Max=	11.63	AVG+0.3%	11.53	Overall Max=	176.88	AVG+0.5PPM	171.56	Overall Max=	10.49	AVG+0.5PPM	6.34

Strat Criteria	all pts. w/in %Diff from avg	All pts w/in +/- ppm or %V
1 Point	0.05	0.5ppm / 0.3%
3 points	0.1	1.0ppm / 0.5%
12 points	All others	

Unit 3 requires 12-point sampling.

APPENDIX B
FIELD DATA

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	8:24:03	17.14	-0.07	7.28	1.15	3.48	5.46	Converter Ck	
1-Oct-07	8:24:34	17.14	-0.07	19.87	1.13	3.21	5.05	Converter Ck	
1-Oct-07	8:25:04	17.14	-0.07	31.16	1.08	0.84	1.31	Converter Ck	
1-Oct-07	8:25:33	17.14	-0.07	37.30	1.02	0.39	0.61	Converter Ck	
1-Oct-07	8:26:03	17.15	-0.07	41.56	0.91	0.07	0.10	Converter Ck	
1-Oct-07	8:26:34	17.15	-0.07	43.27	0.82	-0.05	-0.08	Converter Ck	
1-Oct-07	8:27:04	17.15	-0.07	44.86	0.76	0.19	0.31	Converter Ck	
1-Oct-07	8:27:33	17.15	-0.07	44.03	0.64	0.10	0.16	Converter Ck	
1-Oct-07	8:28:03	17.15	-0.07	44.03	0.54	-0.28	-0.45	Converter Ck	
1-Oct-07	8:28:33	17.16	-0.07	44.03	0.43	-0.22	-0.35	Converter Ck	
1-Oct-07	8:29:03	17.16	-0.07	44.00	0.38	-0.25	-0.39	Converter Ck	
1-Oct-07	8:29:33	17.16	-0.07	44.03	0.25	-0.40	-0.63	Converter Ck	
1-Oct-07	8:30:03	17.16	-0.07	44.03	0.20	-0.18	-0.28	Converter Ck	
1-Oct-07	8:30:33	17.16	-0.07	44.07	0.27	-0.09	-0.14	Converter Ck	
1-Oct-07	8:31:03	17.16	-0.07	44.44	0.49	0.22	0.34	Converter Ck	
1-Oct-07	8:31:33	17.16	-0.07	44.87	0.67	0.50	0.80	Converter Ck	
1-Oct-07	8:32:03	17.15	-0.07	44.43	0.87	0.43	0.68	Converter Ck	
1-Oct-07	8:32:33	17.16	-0.07	44.69	1.02	0.60	0.95	Converter Ck	
1-Oct-07	8:33:03	17.16	-0.07	44.44	1.17	0.19	0.29	Converter Ck	
1-Oct-07	8:33:33	17.16	-0.07	44.55	1.24	0.66	1.04	Converter Ck	
1-Oct-07	8:34:05	17.15	-0.07	44.43	1.30	0.86	1.35	Converter Ck	
1-Oct-07	8:34:33	17.15	-0.07	44.02	1.34	0.90	1.42	Converter Ck	
1-Oct-07	8:35:03	17.15	-0.07	44.77	1.36	0.40	0.63	Converter Ck	
1-Oct-07	8:35:33	17.15	-0.07	44.44	1.33	0.48	0.75	Converter Ck	
1-Oct-07	8:36:03	17.15	-0.07	44.44	1.36	0.63	0.99	Converter Ck	
1-Oct-07	8:36:33	17.15	-0.07	44.10	1.35	0.61	0.96	Converter Ck	
1-Oct-07	8:37:03	17.16	-0.07	44.87	1.36	0.35	0.55	Converter Ck	
1-Oct-07	8:37:33	17.15	-0.07	44.43	1.36	0.49	0.77	Converter Ck	
1-Oct-07	8:38:03	17.15	-0.07	44.66	1.32	0.34	0.53	Converter Ck	
1-Oct-07	8:38:33	17.16	-0.07	44.42	1.27	0.25	0.40	Converter Ck	
1-Oct-07	8:39:03	17.16	-0.07	44.42	1.29	0.35	0.55	Converter Ck	
1-Oct-07	8:39:33	17.15	-0.07	44.42	1.23	0.35	0.55	Converter Ck	
1-Oct-07	8:40:03	17.15	-0.06	44.42	1.13	0.29	0.46	Converter Ck	
1-Oct-07	8:40:33	17.15	-0.06	44.99	1.13	0.27	0.43	Converter Ck	
1-Oct-07	8:41:03	17.15	-0.07	44.42	1.03	-0.36	-0.57	Converter Ck	
1-Oct-07	8:41:34	17.15	-0.07	44.10	0.97	-0.20	-0.31	Converter Ck	
1-Oct-07	8:42:03	17.15	-0.07	43.97	0.86	-0.08	-0.12	Converter Ck	
1-Oct-07	8:42:34	17.14	-0.07	44.43	0.86	-0.23	-0.36	Converter Ck	
1-Oct-07	8:43:03	17.14	-0.07	44.43	0.71	-0.06	-0.10	Converter Ck	
1-Oct-07	8:43:34	17.14	-0.07	44.14	0.69	-0.32	-0.50	Converter Ck	
1-Oct-07	8:44:03	17.14	-0.07	44.85	0.61	-0.23	-0.37	Converter Ck	
1-Oct-07	8:44:33	17.14	-0.07	44.43	0.53	-0.19	-0.29	Converter Ck	
1-Oct-07	8:45:03	17.14	-0.06	43.95	0.45	-0.13	-0.20	Converter Ck	
1-Oct-07	8:45:34	17.14	-0.07	44.43	0.39	-0.38	-0.60	Converter Ck	
1-Oct-07	8:46:03	17.14	-0.07	44.43	0.39	-0.34	-0.54	Converter Ck	
1-Oct-07	8:46:33	17.13	-0.07	44.04	0.26	-0.30	-0.47	Converter Ck	
1-Oct-07	8:47:03	17.14	-0.07	44.43	0.22	-0.44	-0.70	Converter Ck	
1-Oct-07	8:47:34	17.13	-0.07	44.43	0.22	0.03	0.05	Converter Ck	
1-Oct-07	8:48:03	17.13	-0.07	44.43	0.36	0.06	0.10	Converter Ck	
1-Oct-07	8:48:33	17.13	-0.07	44.71	0.68	0.32	0.50	Converter Ck	
1-Oct-07	8:49:04	17.13	-0.07	44.43	1.02	0.35	0.55	Converter Ck	
1-Oct-07	8:49:34	17.12	-0.07	44.29	1.17	0.43	0.66	Converter Ck	
1-Oct-07	8:50:03	17.13	-0.07	44.87	1.27	0.22	0.34	Converter Ck	
1-Oct-07	8:50:33	17.12	-0.07	44.30	1.30	0.33	0.52	Converter Ck	
1-Oct-07	8:51:03	17.12	-0.07	44.42	1.27	0.30	0.47	Converter Ck	
1-Oct-07	8:51:33	17.12	-0.07	44.42	1.23	0.27	0.43	Converter Ck	
1-Oct-07	8:52:03	17.11	-0.07	44.43	1.20	0.30	0.47	Converter Ck	
1-Oct-07	8:52:35	17.12	-0.07	44.43	1.13	0.22	0.34	Converter Ck	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	8:53:03	17.12	-0.07	44.52	1.13	-0.04	-0.07	Converter Ck	
1-Oct-07	8:53:33	17.12	-0.07	44.42	1.05	0.13	0.20	Converter Ck	
1-Oct-07	8:54:05	17.12	-0.07	44.66	1.07	0.29	0.45	Converter Ck	
1-Oct-07	8:54:33	17.12	-0.07	44.27	1.08	0.44	0.69	Converter Ck	
1-Oct-07	8:55:03	17.12	-0.07	44.31	1.09	0.03	0.04	Converter Ck	
1-Oct-07	8:55:33	17.12	-0.07	44.41	1.02	-0.03	-0.04	Converter Ck	
1-Oct-07	8:56:03	17.12	-0.07	44.27	1.03	-0.10	-0.16	Converter Ck	
Average:	**8:56:18**	**17.14**	**-0.07**	**43.07**	**0.91**	**0.25**	**0.39**	**Converter Ck**	
Maximum	8:56:18	17.16	-0.06	44.99	1.36	3.48	5.46	Converter Ck	
Minimum	8:56:18	17.11	-0.07	7.28	0.20	-0.44	-0.70	Converter Ck	
Std Dev	8:56:18	0.01	0.00	5.73	0.37	0.65	1.02	Converter Ck	
1-Oct-07	14:25:56	22.37	17.77	1.56	-1.25	-2.07	8.29	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:26:06	22.37	17.77	1.56	-1.25	0.73	-2.94	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:26:16	22.37	17.78	1.56	-1.25	-0.08	0.33	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:26:26	22.36	17.79	1.56	-1.25	-0.73	2.94	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:26:36	22.37	17.77	1.56	-1.10	-0.48	1.93	Cal:22.4 O2 17.68 CO2	
Average:	**14:26:45**	**22.37**	**17.78**	**1.56**	**-1.22**	**-0.53**	**2.11**	**Cal:22.4 O2 17.68 CO2**	
Gas Value:	14:26:45	22.4	17.68	#N/A	#N/A	#N/A	#N/A	22.4 O2 17.68 CO2	
Diff%ofSpan	14:26:45	-0.14%	0.54%	#N/A	#N/A	#N/A	#N/A		
1-Oct-07	14:29:14	22.42	17.78	1.57	-1.04	-0.56	2.18	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:29:23	22.42	17.77	1.57	-1.08	-0.09	0.33	Cal:22.4 O2 17.68 CO2	
1-Oct-07	14:29:33	22.42	17.76	1.56	-1.08	-0.10	0.40	Cal:22.4 O2 17.68 CO2	
Average:	**14:29:33**	**22.42**	**17.77**	**1.56**	**-1.07**	**-0.25**	**0.97**	**Cal:22.4 O2 17.68 CO2**	
Gas Value:	14:29:33	22.4	17.68	#N/A	#N/A	#N/A	#N/A	22.4 O2 17.68 CO2	
Diff%ofSpan	14:29:33	0.09%	0.49%	#N/A	#N/A	#N/A	#N/A		
1-Oct-07	14:31:12	13.09	9.94	1.56	-0.92	-0.42	-0.31	Cal:13.0 O2 10.02 CO2	
1-Oct-07	14:31:22	13.08	9.94	1.56	-0.92	-0.42	-0.32	Cal:13.0 O2 10.02 CO2	
1-Oct-07	14:31:32	13.09	9.94	1.56	-0.92	-0.27	-0.20	Cal:13.0 O2 10.02 CO2	
Average:	**14:31:35**	**13.09**	**9.94**	**1.56**	**-0.92**	**-0.37**	**-0.28**	**Cal:13.0 O2 10.02 CO2**	
Gas Value:	14:31:35	13	10.02	0	0	0	#N/A	13.0 O2 10.02 CO2	
Diff%ofSpan	14:31:35	0.38%	-0.46%	0.31%	-0.98%	-0.07%	#N/A		
1-Oct-07	14:35:12	0.06	-0.18	92.52	94.64	-0.19	-0.05	Cal:94.3 CO	
1-Oct-07	14:35:22	0.07	-0.18	93.80	94.85	-0.15	-0.04	Cal:94.3 CO	
Average:	**14:35:31**	**0.06**	**-0.18**	**93.16**	**94.74**	**-0.17**	**-0.05**	**Cal:94.3 CO**	
Gas Value:	14:35:31	#N/A	#N/A	#N/A	94.3	#N/A	#N/A	94.3 CO	
Diff%ofSpan	14:35:31	#N/A	#N/A	#N/A	0.47%	#N/A	#N/A		
1-Oct-07	14:38:29	0.04	-0.18	96.52	94.08	-0.41	-0.12	Cal:94.3 CO	
1-Oct-07	14:38:38	0.04	-0.18	96.53	94.30	-0.05	-0.01	Cal:94.3 CO	
1-Oct-07	14:38:48	0.04	-0.18	96.54	94.63	-0.24	-0.07	Cal:94.3 CO	
Average:	**14:38:49**	**0.04**	**-0.18**	**96.53**	**94.34**	**-0.23**	**-0.07**	**Cal:94.3 CO**	
Gas Value:	14:38:49	#N/A	#N/A	#N/A	94.3	#N/A	#N/A	94.3 CO	
Diff%ofSpan	14:38:49	#N/A	#N/A	#N/A	0.04%	#N/A	#N/A		
1-Oct-07	14:43:59	0.01	-0.19	2.55	47.34	-0.26	-0.07	Cal:47.3 CO	
1-Oct-07	14:44:10	0.01	-0.19	2.56	47.44	-0.36	-0.10	Cal:47.3 CO	
1-Oct-07	14:44:19	0.01	-0.19	2.56	47.60	-0.38	-0.11	Cal:47.3 CO	
Average:	**14:44:20**	**0.01**	**-0.19**	**2.55**	**47.46**	**-0.33**	**-0.09**	**Cal:47.3 CO**	
Gas Value:	14:44:20	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	14:44:20	0.04%	-1.08%	#N/A	0.17%	#N/A	#N/A		
1-Oct-07	14:55:09	0.02	9.02	507.44	-0.59	-0.29	-0.08	Cal:504 NOx	
1-Oct-07	14:55:21	0.03	9.02	511.00	-0.59	-0.07	-0.02	Cal:504 NOx	
1-Oct-07	14:55:29	0.02	9.02	515.05	-0.59	0.04	0.01	Cal:504 NOx	
Average:	**14:55:30**	**0.02**	**9.02**	**511.16**	**-0.59**	**-0.11**	**-0.03**	**Cal:504 NOx**	
Gas Value:	14:55:30	#N/A	#N/A	504	#N/A	#N/A	#N/A	504 NOx	
Diff%ofSpan	14:55:30	#N/A	#N/A	1.42%	#N/A	#N/A	#N/A		
1-Oct-07	14:56:17	0.03	9.02	507.57	-0.59	-0.42	-0.12	Cal:	
1-Oct-07	14:56:28	0.03	9.02	509.36	-0.59	-0.63	-0.18	Cal:	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	14:56:37	0.02	9.02	508.54	-0.59	-0.43	-0.12	Cal:	
Average:	**14:56:37**	**0.02**	**9.02**	**508.49**	**-0.59**	**-0.49**	**-0.14**	**Cal:**	
Gas Value:	14:56:37								
Diff%ofSpan	14:56:37	0.11%	51.02%	100.89%	-0.62%	-0.10%	#DIV/0!		
1-Oct-07	15:01:43	0.00	8.90	249.62	-0.72	-0.51	-0.14	Cal:244 Nox 9.02 CO2	
1-Oct-07	15:01:53	0.01	8.90	249.00	-0.61	-0.41	-0.12	Cal:244 Nox 9.02 CO2	
1-Oct-07	15:02:03	0.01	8.89	248.61	-0.57	-0.33	-0.09	Cal:244 Nox 9.02 CO2	
Average:	**15:02:04**	**0.01**	**8.90**	**249.08**	**-0.64**	**-0.42**	**-0.12**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	15:02:04	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	15:02:04	#N/A	-0.70%	1.01%	#N/A	#N/A	#N/A		
1-Oct-07	15:05:57	-0.01	-0.18	10.59	-0.24	513.97	145.05	Cal:512 SO2	
1-Oct-07	15:06:08	0.00	-0.18	9.58	-0.24	514.64	145.30	Cal:512 SO2	
1-Oct-07	15:06:17	0.00	-0.19	9.59	-0.24	514.96	145.40	Cal:512 SO2	
Average:	**15:06:17**	**0.00**	**-0.18**	**9.92**	**-0.24**	**514.52**	**145.25**	**Cal:512 SO2**	
Gas Value:	15:06:17	#N/A	#N/A	#N/A	#N/A	512	#N/A	512 SO2	
Diff%ofSpan	15:06:17	#N/A	#N/A	#N/A	#N/A	0.49%	#N/A		
1-Oct-07	15:08:09	0.00	-0.19	11.59	-0.23	218.55	61.69	Cal:219 SO2	
1-Oct-07	15:08:19	-0.01	-0.19	11.80	-0.24	218.33	61.61	Cal:219 SO2	
1-Oct-07	15:08:29	-0.01	-0.19	12.83	-0.24	218.18	61.57	Cal:219 SO2	
1-Oct-07	15:08:39	0.00	-0.19	13.59	-0.17	218.26	61.61	Cal:219 SO2	
1-Oct-07	15:08:49	0.00	-0.19	13.59	-0.07	218.06	61.57	Cal:219 SO2	
Average:	**15:08:54**	**0.00**	**-0.19**	**12.68**	**-0.19**	**218.28**	**61.61**	**Cal:219 SO2**	
Gas Value:	15:08:54	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	15:08:54	#N/A	#N/A	#N/A	#N/A	-0.14%	#N/A		
1-Oct-07	15:34:54	13.22	9.78	1.62	-0.83	-0.09	-0.07	O2= 13.0 CO2=10.03	Bias
1-Oct-07	15:35:23	13.22	9.78	1.61	-0.84	-0.16	-0.13	O2= 13.0 CO2=10.03	Bias
1-Oct-07	15:35:53	13.22	9.78	1.62	-0.80	0.04	0.03	O2= 13.0 CO2=10.03	Bias
Average:	**15:36:01**	**13.22**	**9.78**	**1.62**	**-0.82**	**-0.07**	**-0.05**	**O2= 13.0 CO2=10.03**	
Maximum	15:36:01	13.22	9.78	1.62	-0.80	0.04	0.03	O2= 13.0 CO2=10.03	
Minimum	15:36:01	13.22	9.78	1.61	-0.84	-0.16	-0.13	O2= 13.0 CO2=10.03	
Std Dev	15:36:01	0.00	0.00	0.00	0.02	0.11	0.08	O2= 13.0 CO2=10.03	
1-Oct-07	15:41:30	0.13	8.81	241.64	-0.57	-0.29	-0.08	Cal:244 Nox 9.02 CO2	
1-Oct-07	15:41:40	0.12	8.81	241.66	-0.57	0.10	0.03	Cal:244 Nox 9.02 CO2	
1-Oct-07	15:41:50	0.12	8.81	242.16	-0.58	-0.12	-0.04	Cal:244 Nox 9.02 CO2	
Average:	**15:41:58**	**0.12**	**8.81**	**241.82**	**-0.57**	**-0.10**	**-0.03**	**Cal:244 Nox 9.02 CO2**	**Bias**
Gas Value:	15:41:58	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	15:41:58	#N/A	-1.19%	-0.43%	#N/A	#N/A	#N/A		
1-Oct-07	15:48:16	0.03	-0.09	15.65	-0.25	209.36	59.20	Cal:219 SO2	
1-Oct-07	15:48:26	0.02	-0.10	15.65	-0.25	209.75	59.28	Cal:219 SO2	
1-Oct-07	15:48:36	0.03	-0.10	15.55	-0.25	210.11	59.39	Cal:219 SO2	
Average:	**15:48:38**	**0.03**	**-0.10**	**15.61**	**-0.25**	**209.74**	**59.29**	**Cal:219 SO2**	**Bias**
Gas Value:	15:48:38	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	15:48:38	#N/A	#N/A	#N/A	#N/A	-1.81%	#N/A		
1-Oct-07	15:55:04	0.26	-0.14	1.68	43.81	1.61	0.46	Cal:47.3 CO	
1-Oct-07	15:55:14	0.26	-0.14	1.67	43.83	1.46	0.42	Cal:47.3 CO	
1-Oct-07	15:55:24	0.26	-0.14	1.69	43.16	1.69	0.48	Cal:47.3 CO	Bias
1-Oct-07	15:55:34	0.26	-0.14	1.68	42.80	1.61	0.46	Cal:47.3 CO	
1-Oct-07	15:55:44	0.25	-0.14	1.67	42.79	1.38	0.40	Cal:47.3 CO	
Average:	**15:55:50**	**0.26**	**-0.14**	**1.68**	**43.28**	**1.55**	**0.44**	**Cal:47.3 CO**	**Bias**
Gas Value:	15:55:50	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	15:55:50	1.15%	-0.80%	#N/A	-4.27%	#N/A	#N/A		
1-Oct-07	16:00:19	0.02	-0.16	1.69	45.74	0.73	0.21	47.3 CO	Bias
1-Oct-07	16:00:29	0.02	-0.16	1.69	45.70	0.69	0.19	47.3 CO	Bias
1-Oct-07	16:00:39	0.02	-0.16	1.69	45.70	0.61	0.17	47.3 CO	Bias
1-Oct-07	16:00:49	0.02	-0.17	1.70	45.64	0.44	0.13	47.3 CO	Bias
1-Oct-07	16:01:00	0.02	-0.16	1.70	45.67	0.47	0.13	47.3 CO	Bias

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Average:	**16:01:00**	**0.02**	**-0.16**	**1.70**	**45.69**	**0.59**	**0.17**	**47.3 CO**	**Bias**
Gas Value:	16:01:00								
Diff%ofSpan	16:01:00	0.09%	-0.92%	0.34%	48.45%	0.11%	#DIV/0!		
1-Oct-07	16:34:38	7.43	11.77	180.16	6.10	187.93	82.34	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:34:48	7.44	11.81	180.16	7.49	189.68	83.14	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:34:59	7.40	11.82	180.65	8.47	191.00	83.47	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:08	7.46	11.83	180.56	8.74	191.40	84.00	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:18	7.60	11.72	180.08	8.48	191.50	84.95	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:28	7.63	11.63	180.00	7.67	190.95	84.91	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:38	7.62	11.63	180.46	6.74	189.40	84.17	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:49	7.64	11.62	180.95	6.25	187.48	83.45	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:35:58	7.61	11.61	180.38	6.16	186.65	82.86	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:08	7.51	11.67	179.96	6.22	186.12	82.04	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:18	7.49	11.75	179.91	6.69	187.16	82.35	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:28	7.54	11.72	179.88	6.97	188.93	83.47	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:39	7.64	11.64	179.84	7.08	189.67	84.37	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:48	7.67	11.58	179.88	6.53	188.55	84.08	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:36:58	7.71	11.56	180.47	5.90	187.51	83.89	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:08	7.75	11.52	180.86	5.04	186.62	83.71	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:18	7.77	11.49	180.84	4.37	185.01	83.13	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:29	7.78	11.47	180.34	4.67	181.32	81.52	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:38	7.71	11.50	179.90	6.03	179.27	80.21	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:48	7.55	11.58	179.86	7.41	179.13	79.18	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:37:58	7.44	11.71	179.86	8.58	180.77	79.22	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:08	7.43	11.75	179.86	8.84	182.22	79.80	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:18	7.45	11.78	179.33	8.78	183.99	80.69	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:28	7.61	11.68	179.47	8.92	185.40	82.30	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:38	7.64	11.58	179.82	9.12	185.44	82.50	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:49	7.56	11.61	179.87	9.66	185.98	82.24	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:38:58	7.46	11.70	179.94	10.30	186.67	81.94	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:08	7.43	11.78	180.51	10.28	187.99	82.32	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:18	7.46	11.76	180.94	9.54	189.69	83.28	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:28	7.46	11.73	181.40	8.52	190.85	83.77	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:38	7.46	11.73	181.93	7.25	191.67	84.15	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:49	7.55	11.70	181.39	6.06	193.38	85.46	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:39:58	7.69	11.60	180.97	5.37	194.69	86.93	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:40:08	7.70	11.53	181.49	4.91	193.54	86.54	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:40:18	7.54	11.59	181.98	4.55	191.69	84.64	CO Up; O2/CO2 Down Response Time	
Average:	**16:40:25**	**7.57**	**11.66**	**180.40**	**7.25**	**187.69**	**83.06**	**CO Up; O2/CO2 Down Response Time**	
Maximum	16:40:25	7.78	11.83	181.98	10.30	194.69	86.93	CO Up; O2/CO2 Down Response Time	
Minimum	16:40:25	7.40	11.47	179.33	4.37	179.13	79.18	CO Up; O2/CO2 Down Response Time	
Std Dev	16:40:25	0.11	0.10	0.67	1.68	3.94	1.82	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:46:45	7.47	11.72	179.74	5.58	190.81	83.83	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:46:54	7.53	11.73	179.08	5.79	191.70	84.59	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:04	9.28	10.44	179.04	6.22	193.08	98.92	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:14	8.52	7.68	179.26	8.05	191.74	91.71	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:24	7.49	11.14	180.25	11.89	175.79	77.35	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:35	7.26	11.82	181.05	19.48	163.26	70.63	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:49	7.28	11.94	180.20	34.87	171.36	74.21	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:47:54	7.54	11.78	175.49	62.63	186.38	82.28	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:04	7.62	11.67	172.87	68.14	193.45	85.97	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:14	7.68	11.63	171.89	68.44	194.54	86.83	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:24	8.13	11.02	171.30	60.01	193.51	89.69	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:34	1.94	2.99	172.32	47.98	174.04	54.89	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:44	0.24	0.15	173.10	42.68	103.41	29.55	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:48:54	0.11	0.06	173.08	48.63	53.52	15.19	CO Up; O2/CO2 Down Response Time	
1-Oct-07	16:49:04	0.09	0.03	173.48	59.13	29.63	8.40	CO Up; O2/CO2 Down Response Time	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	16:49:14	0.07	0.02	175.27	71.04	17.57	4.98	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:49:24	0.07	0.00	173.71	81.15	11.65	3.30	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:49:34	0.06	0.00	161.49	88.50	8.30	2.35	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:49:45	0.06	-0.01	148.11	93.77	6.14	1.74	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:49:54	0.06	-0.02	137.66	96.60	5.07	1.44	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:04	0.07	-0.03	127.89	97.87	4.27	1.21	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:14	0.06	-0.04	121.89	98.51	3.81	1.08	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:24	0.05	-0.05	116.28	98.71	3.72	1.05	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:34	0.05	-0.06	112.51	98.65	3.06	0.87	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:45	0.04	-0.07	109.29	98.70	3.06	0.87	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:50:54	0.04	-0.07	106.64	98.80	3.12	0.88	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:51:04	0.04	-0.08	104.88	98.69	2.85	0.81	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:51:14	0.04	-0.08	103.88	98.53	2.66	0.75	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:51:24	0.04	-0.09	102.87	98.69	2.45	0.69	CO Up; O2/CO2 Down	Response Time
1-Oct-07	16:51:43	0.03	-0.10	102.04	98.83	2.99	0.85		
1-Oct-07	16:51:44	0.04	-0.10	101.98	98.96	2.88	0.81		
1-Oct-07	16:51:54	0.04	-0.08	101.03	98.31	2.43	0.69		
1-Oct-07	16:52:04	0.03	-0.08	101.01	96.77	2.66	0.75		
1-Oct-07	16:52:14	0.03	-0.08	101.05	94.45	2.71	0.76		
1-Oct-07	16:52:25	0.03	-0.07	101.07	91.95	2.49	0.70		
1-Oct-07	16:52:34	0.04	-0.07	100.86	89.89	2.45	0.69		
1-Oct-07	16:52:44	0.95	0.09	100.14	88.38	2.72	0.81		
1-Oct-07	16:52:54	6.33	6.05	100.03	85.38	4.94	2.06		
1-Oct-07	16:53:04	7.32	11.25	100.26	77.42	56.10	24.37		
1-Oct-07	16:53:14	7.32	11.67	101.24	62.84	155.97	67.76		
1-Oct-07	16:53:24	7.50	11.66	102.08	48.43	202.55	89.18		
1-Oct-07	16:53:34	7.55	11.56	102.08	36.89	214.36	94.72		
1-Oct-07	16:53:45	7.37	11.69	105.36	27.52	215.34	93.89		
1-Oct-07	16:53:54	7.30	11.84	115.84	21.95	215.54	93.48		
1-Oct-07	16:54:04	7.28	11.85	128.34	16.73	216.20	93.64		
1-Oct-07	16:54:14	7.26	11.90	139.35	14.68	215.76	93.33		
1-Oct-07	16:54:24	7.32	11.87	149.67	15.35	214.61	93.26		
1-Oct-07	16:54:35	7.39	11.81	158.55	16.02	211.83	92.51		
1-Oct-07	16:54:45	7.41	11.78	166.41	15.97	208.45	91.15		
1-Oct-07	16:54:54	7.34	11.81	170.51	16.05	206.52	89.83		
1-Oct-07	16:55:04	7.21	11.91	173.42	16.59	206.48	88.98		
1-Oct-07	16:55:14	7.18	12.00	175.76	20.11	208.62	89.69		
1-Oct-07	16:55:24	7.16	12.01	178.35	25.96	209.95	90.15		
1-Oct-07	16:55:35	7.22	11.99	179.15	32.82	208.90	90.09		
1-Oct-07	16:55:44	7.23	11.95	179.36	37.61	208.09	89.79		
1-Oct-07	16:55:54	7.24	11.96	180.16	37.89	207.82	89.76		
1-Oct-07	16:56:04	7.24	11.95	180.56	34.43	207.65	89.66		
1-Oct-07	16:56:17	7.27	11.95	182.71	28.73	207.53	89.82		
1-Oct-07	16:56:25	7.40	11.86	184.54	22.97	207.28	90.57		
1-Oct-07	16:56:34	7.52	11.76	185.12	19.77	205.52	90.62		
1-Oct-07	16:56:44	7.59	11.67	185.66	15.67	202.56	89.79		
1-Oct-07	16:56:54	7.57	11.66	187.37	13.23	199.26	88.19		
1-Oct-07	16:57:04	7.57	11.66	188.08	11.21	198.74	87.96		
1-Oct-07	16:57:15	7.54	11.68	188.09	9.25	199.35	88.06		
1-Oct-07	16:57:24	7.58	11.68	187.90	7.68	200.49	88.84		
1-Oct-07	16:57:34	7.61	11.63	186.92	6.61	200.93	89.19		
1-Oct-07	16:57:44	7.56	11.66	185.94	5.82	201.44	89.09		
1-Oct-07	16:57:54	7.58	11.66	185.11	5.46	203.24	90.03		
1-Oct-07	16:58:10	7.63	11.62	185.11	5.56	204.55	90.92	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:58:14	7.63	11.57	185.07	5.66	203.24	90.38	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:58:24	7.63	11.56	184.76	5.59	203.32	90.42	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:58:35	7.63	11.56	183.99	5.36	203.19	90.37	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:58:44	7.67	11.55	183.22	4.86	203.50	90.78	NOx Up; O2/CO2 Down	Response Time

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	16:58:54	7.70	11.52	183.20	4.30	203.28	90.84	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:04	7.72	11.50	183.20	4.16	203.39	91.01	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:14	7.71	11.49	183.16	3.68	203.16	90.85	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:24	7.72	11.48	182.93	3.44	203.19	90.94	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:35	7.72	11.49	182.12	3.21	203.28	90.97	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:44	7.71	11.50	182.10	3.14	203.63	91.07	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	16:59:54	12.01	7.47	182.12	3.27	205.42	147.42	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:04	16.07	0.93	182.10	5.27	179.89	219.23	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:14	16.47	0.28	182.16	8.67	103.24	136.81	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:25	16.82	1.23	181.85	11.42	50.84	73.32	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:34	14.34	2.05	181.19	11.87	28.75	29.99	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:44	4.91	4.97	175.45	10.32	19.63	7.61	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:00:54	0.70	8.14	156.46	7.82	13.83	4.04	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:04	0.22	8.78	137.70	5.12	10.84	3.09	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:15	0.14	8.87	119.02	2.67	8.45	2.40	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:24	0.12	8.91	113.84	1.21	7.50	2.13	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:34	0.09	8.93	130.49	0.43	6.48	1.84	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:44	0.09	8.94	161.09	0.01	5.82	1.65	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:01:54	0.08	8.95	221.21	-0.13	5.60	1.59	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:04	0.07	8.95	278.52	-0.32	5.17	1.46	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:14	0.08	8.96	329.50	-0.40	4.45	1.26	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:24	0.07	8.96	374.53	-0.41	4.23	1.20	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:35	0.07	8.96	407.14	-0.41	4.38	1.24	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:44	0.07	8.97	432.82	-0.41	3.89	1.10	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:02:54	0.07	8.97	451.82	-0.41	3.50	0.99	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:04	0.07	8.98	467.82	-0.41	3.14	0.89	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:14	0.07	8.98	476.90	-0.41	2.86	0.81	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:25	0.06	8.98	485.32	-0.41	2.87	0.81	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:34	0.07	8.98	491.16	-0.41	3.22	0.91	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:44	0.06	8.99	496.06	-0.41	2.96	0.84	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:03:54	0.06	8.99	498.78	-0.41	2.89	0.82	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:04	0.06	8.99	500.58	-0.41	2.57	0.73	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:14	0.06	8.99	502.75	-0.41	2.19	0.62	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:25	0.05	8.99	504.48	-0.41	2.62	0.74	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:34	0.06	9.00	505.81	-0.41	2.05	0.58	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:44	0.06	8.99	507.50	-0.41	2.07	0.59	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:04:54	0.06	9.00	508.17	-0.49	2.33	0.66	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:04	0.05	9.00	508.00	-0.49	2.40	0.68	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:15	0.05	9.00	508.12	-0.41	1.91	0.54	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:24	0.05	9.00	508.55	-0.41	1.92	0.54	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:34	0.06	9.00	509.51	-0.41	1.26	0.36	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:44	0.05	9.01	510.42	-0.49	1.56	0.44	NOx Up; O2/CO2 Down	Response Time
1-Oct-07	17:05:54	0.05	9.01	511.06	-0.57	1.73	0.49		
1-Oct-07	17:06:05	0.04	9.00	511.48	-0.41	1.56	0.44		
1-Oct-07	17:06:14	0.05	9.00	512.21	-0.41	1.58	0.45		
1-Oct-07	17:06:24	0.04	9.00	511.95	-0.44	2.07	0.58		
1-Oct-07	17:06:34	0.12	9.00	509.66	-0.49	1.96	0.56		
1-Oct-07	17:06:44	4.86	9.88	509.26	-0.41	1.86	0.70		
1-Oct-07	17:06:54	7.54	11.35	512.85	0.13	26.80	11.92		
1-Oct-07	17:07:04	7.74	11.41	515.25	1.41	115.58	51.83		
1-Oct-07	17:07:14	7.78	11.43	515.23	2.46	169.59	76.28		
1-Oct-07	17:07:25	7.75	11.46	508.27	3.19	188.58	84.60		
1-Oct-07	17:07:34	7.61	11.55	489.55	3.74	195.08	86.60		
1-Oct-07	17:07:44	7.43	11.71	461.57	4.61	199.23	87.24		
1-Oct-07	17:07:54	7.35	11.84	412.26	8.31	204.68	89.09		
1-Oct-07	17:08:04	7.35	11.85	364.93	14.73	207.75	90.43		
1-Oct-07	17:08:14	7.43	11.81	326.85	20.13	208.67	91.43		
1-Oct-07	17:08:25	7.58	11.68	285.63	23.88	209.36	92.70		

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	17:08:34	7.70	11.55	263.11	24.10	207.00	92.55		
1-Oct-07	17:08:44	7.76	11.45	243.26	21.42	203.69	91.43		
1-Oct-07	17:08:54	7.75	11.42	230.59	17.02	202.38	90.81		
1-Oct-07	17:09:04	7.64	11.50	219.26	13.03	205.49	91.45		
1-Oct-07	17:09:15	7.63	11.56	211.54	9.10	209.36	93.08		
1-Oct-07	17:09:24	7.60	11.62	205.67	6.69	210.81	93.55		
1-Oct-07	17:09:34	7.64	11.62	203.44	6.01	211.10	93.93		
1-Oct-07	17:09:45	7.75	11.53	200.36	6.65	211.22	94.74		
1-Oct-07	17:09:54	7.79	11.48	198.33	7.94	210.65	94.77		
1-Oct-07	17:10:05	7.84	11.44	196.69	9.58	210.13	94.91		
1-Oct-07	17:10:14	7.84	11.41	195.63	11.56	208.21	94.05		
1-Oct-07	17:10:24	7.79	11.44	194.75	12.87	207.69	93.48		
1-Oct-07	17:10:34	7.72	11.50	194.16	13.20	208.05	93.15		
1-Oct-07	17:10:44	7.71	11.55	193.20	12.93	207.91	92.98		
1-Oct-07	17:10:59	7.68	11.56	191.73	12.32	208.32	92.97		
1-Oct-07	17:11:04	7.59	11.66	189.93	10.76	209.02	92.68		
1-Oct-07	17:11:14	7.65	11.65	188.74	10.71	208.95	93.03	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:11:25	7.64	11.62	187.96	10.80	206.78	91.99	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:11:34	6.06	10.97	188.01	14.63	204.68	82.46	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:11:44	0.77	2.89	187.51	20.03	243.02	71.05	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:11:54	0.14	0.16	185.77	22.03	386.59	109.84	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:04	0.06	0.07	184.78	19.62	461.17	130.57	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:15	0.05	0.04	183.70	15.67	484.60	137.12	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:24	0.04	0.03	179.45	11.05	490.08	138.63	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:34	0.04	0.01	168.86	7.16	491.02	138.86	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:44	0.04	0.00	153.28	4.11	491.52	139.00	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:12:54	0.04	0.00	127.31	2.11	492.85	139.38	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:04	0.03	0.00	99.95	0.80	493.50	139.53	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:15	0.03	-0.02	76.14	0.11	494.55	139.84	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:24	0.03	-0.03	58.45	-0.19	494.51	139.79	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:34	0.03	-0.04	45.84	-0.14	495.86	140.16	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:44	0.02	-0.05	35.81	-0.17	495.45	140.01	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:13:54	0.02	-0.06	29.40	-0.24	495.68	140.08	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:05	0.02	-0.06	23.18	-0.24	496.46	140.26	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:14	0.02	-0.07	19.75	-0.24	497.62	140.63	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:24	0.03	-0.07	17.48	-0.24	497.45	140.61	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:34	0.02	-0.08	15.22	-0.24	497.84	140.69	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:44	0.01	-0.08	13.23	-0.24	497.66	140.57	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:14:55	0.02	-0.09	11.59	-0.24	497.42	140.58	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:04	0.02	-0.09	11.02	-0.13	498.41	140.80	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:14	0.02	-0.09	10.64	-0.17	499.34	141.08	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:24	0.01	-0.10	9.61	-0.24	499.40	141.06	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:34	0.01	-0.10	9.07	-0.24	499.99	141.23	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:44	0.02	-0.10	8.95	-0.24	500.26	141.34	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:15:54	0.00	-0.11	8.55	-0.23	501.23	141.53	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:16:04	0.01	-0.11	8.00	-0.23	502.08	141.80	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:16:15	0.01	-0.11	8.08	-0.23	503.67	142.22	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:16:26	0.02	-0.11	8.14	-0.23	504.44	142.51	SO2 Up; O2/CO2 Down	Response Time
1-Oct-07	17:16:34	0.01	-0.11	8.08	-0.13	504.71	142.56		
1-Oct-07	17:16:44	0.01	-0.11	7.97	-0.07	504.47	142.51		
1-Oct-07	17:16:54	0.01	-0.11	7.99	-0.15	505.01	142.62		
1-Oct-07	17:17:04	0.01	-0.10	8.01	-0.23	505.54	142.81		
1-Oct-07	17:17:15	2.62	1.25	7.52	-0.23	507.18	166.60		
1-Oct-07	17:17:24	6.99	9.46	6.96	0.63	443.90	188.11		
1-Oct-07	17:17:34	7.33	11.49	7.03	1.60	318.03	138.25		
1-Oct-07	17:17:44	7.34	11.61	7.15	2.62	267.52	116.39		
1-Oct-07	17:17:54	7.35	11.66	7.05	3.50	253.91	110.60		
1-Oct-07	17:18:05	7.43	11.65	13.84	4.18	249.77	109.37		

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	17:18:14	7.56	11.55	29.13	4.52	245.94	108.77		
1-Oct-07	17:18:24	7.64	11.46	45.61	4.76	241.71	107.53		
1-Oct-07	17:18:34	7.64	11.48	70.98	4.81	236.43	105.20		
1-Oct-07	17:18:44	7.67	11.51	95.54	4.66	234.01	104.34		
1-Oct-07	17:18:55	7.63	11.54	117.48	4.56	232.98	103.56		
1-Oct-07	17:19:04	7.63	11.55	134.49	4.88	232.01	103.16		
1-Oct-07	17:19:14	7.53	11.61	147.93	5.42	231.02	101.91		
1-Oct-07	17:19:24	7.41	11.74	157.52	6.62	232.43	101.67		
1-Oct-07	17:19:34	7.47	11.74	163.14	8.46	232.76	102.23		
1-Oct-07	17:19:45	7.47	11.71	167.60	9.97	228.99	100.57		
1-Oct-07	17:19:56	7.40	11.75	170.11	10.68	227.23	99.29		
1-Oct-07	17:20:04	7.37	11.81	173.01	11.27	228.65	99.72		
1-Oct-07	17:20:14	7.38	11.79	175.32	11.90	226.98	99.05		
1-Oct-07	17:20:24	7.30	11.84	176.81	12.86	224.68	97.50		
1-Oct-07	17:20:34	7.25	11.91	178.84	13.31	223.67	96.71		
1-Oct-07	17:20:44	7.36	11.86	180.94	12.96	223.05	97.22		
1-Oct-07	17:20:54	7.54	11.72	182.63	12.23	218.93	96.65		
1-Oct-07	17:21:05	7.63	11.59	183.16	10.78	212.35	94.41		
1-Oct-07	17:21:14	7.65	11.56	183.13	9.03	206.06	91.76		
1-Oct-07	17:21:24	7.61	11.58	183.22	7.56	203.16	90.18		
1-Oct-07	17:21:34	7.50	11.66	183.54	6.54	202.10	88.96		
1-Oct-07	17:21:44	7.37	11.75	183.66	6.20	203.51	88.76	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:21:54	7.31	11.81	182.93	6.19	205.13	89.04	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:05	7.36	11.85	182.66	6.33	207.78	90.52	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:14	7.43	11.79	183.15	6.53	208.55	91.36	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:24	7.46	11.75	182.94	6.81	207.23	90.98	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:34	8.07	11.27	182.64	6.86	206.39	95.48	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:44	8.52	3.93	182.25	6.56	213.34	103.75	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:22:55	18.96	8.26	182.95	5.76	249.46	233.21	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:04	22.27	16.86	183.41	4.43	214.21	-944.36	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:14	22.48	17.33	184.52	2.98	108.88	-408.37	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:24	22.52	17.40	180.05	1.80	55.41	-201.94	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:34	22.53	17.45	166.58	0.80	32.73	-118.21	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:45	22.55	17.47	146.22	0.00	21.86	-78.22	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:23:54	22.56	17.48	120.13	-0.57	16.47	-58.68	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:04	22.56	17.50	96.31	-0.84	13.60	-48.38	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:14	22.57	17.51	74.69	-1.00	11.57	-40.99	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:24	22.57	17.52	56.89	-1.07	10.68	-37.65	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:34	22.57	17.52	43.81	-1.17	9.24	-32.62	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:44	22.58	17.53	33.18	-1.24	8.61	-30.24	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:24:54	22.57	17.54	25.82	-1.24	8.14	-28.70	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:05	22.57	17.54	19.71	-1.13	8.02	-28.27	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:14	22.59	17.53	16.24	-1.18	7.17	-25.05	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:24	22.58	17.53	12.73	-1.14	7.07	-24.79	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:34	22.59	17.54	10.20	-1.17	7.09	-24.75	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:44	22.59	17.55	8.57	-1.14	6.80	-23.79	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:25:54	22.59	17.55	7.65	-1.17	6.94	-24.26	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:04	22.59	17.56	6.56	-1.24	6.89	-24.10	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:14	22.59	17.57	5.58	-1.24	6.73	-23.56	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:24	22.59	17.57	5.07	-1.14	6.51	-22.74	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:34	22.58	17.58	4.82	-1.13	6.13	-21.50	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:44	22.58	17.56	4.08	-1.25	6.02	-21.11	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:26:55	22.58	17.57	3.94	-1.25	5.83	-20.46	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:27:04	22.59	17.57	3.93	-1.25	5.33	-18.67	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:27:14	22.59	17.58	3.54	-1.25	5.04	-17.61	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:27:24	22.59	17.57	2.99	-1.25	4.94	-17.30	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:27:34	22.59	17.57	3.03	-1.14	4.72	-16.49	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:27:45	22.59	17.58	3.01	-1.19	4.62	-16.14	O2/CO2 Up; Rest Down	Response Time

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	17:27:54	22.58	17.58	3.05	-1.25	3.98	-14.01	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:28:04	22.60	17.58	3.06	-1.25	4.17	-14.50	O2/CO2 Up; Rest Down	Response Time
1-Oct-07	17:28:14	22.60	17.58	3.07	-1.25	3.82	-13.27		
1-Oct-07	17:28:24	22.60	17.58	3.02	-1.14	3.45	-11.97		
1-Oct-07	17:28:38	22.60	17.59	3.09	-1.18	3.93	-13.63		
1-Oct-07	17:28:44	22.61	17.58	3.11	-1.10	4.09	-14.15		
1-Oct-07	17:28:54	21.52	17.52	3.08	-1.16	3.97	-6.31		
1-Oct-07	17:29:04	10.15	14.00	3.06	-0.91	5.91	3.20		
1-Oct-07	17:29:14	7.90	11.79	2.74	0.69	56.78	25.60		
1-Oct-07	17:29:24	7.42	11.91	2.09	3.31	147.19	64.38		
1-Oct-07	17:29:34	7.31	12.05	2.04	7.36	192.94	83.76		
1-Oct-07	17:29:44	7.41	11.96	4.91	13.17	210.42	92.06		
1-Oct-07	17:29:55	7.52	11.84	15.69	18.78	213.98	94.38		
1-Oct-07	17:30:04	7.64	11.72	30.74	21.43	212.19	94.44		
1-Oct-07	17:30:14	7.72	11.63	55.97	21.17	210.11	94.09		
1-Oct-07	17:30:24	7.76	11.58	80.90	18.97	208.26	93.52		
1-Oct-07	17:30:34	7.73	11.57	104.00	15.62	208.17	93.29		
1-Oct-07	17:30:44	7.63	11.65	124.33	12.11	208.97	92.90		
1-Oct-07	17:30:55	7.57	11.72	138.51	9.12	212.54	94.06		
1-Oct-07	17:31:04	7.64	11.69	149.50	7.39	216.57	96.33		
1-Oct-07	17:31:14	7.66	11.65	157.12	6.42	216.57	96.47		
1-Oct-07	17:31:24	7.62	11.66	163.56	5.70	215.95	95.97		
1-Oct-07	17:31:34	7.67	11.65	167.97	5.16	217.22	96.86		
1-Oct-07	17:31:45	7.70	11.59	171.89	4.77	217.94	97.38		
1-Oct-07	17:31:54	7.54	11.67	174.28	4.46	217.45	96.06		
1-Oct-07	17:32:04	7.44	11.80	176.75	4.55	219.73	96.29		
1-Oct-07	17:32:14	7.46	11.82	178.77	5.03	223.28	98.05		
1-Oct-07	17:32:24	7.53	11.75	179.95	5.56	225.52	99.50		
1-Oct-07	17:32:35	7.50	11.74	179.93	6.02	223.97	98.59		
1-Oct-07	17:32:44	7.49	11.79	180.38	6.16	223.33	98.25		
1-Oct-07	17:32:54	7.54	11.73	181.33	5.92	223.28	98.64		
1-Oct-07	17:33:04	7.59	11.69	181.94	5.58	221.90	98.38		
1-Oct-07	17:33:14	7.69	11.61	181.93	5.22	218.94	97.78		
1-Oct-07	17:33:24	7.68	11.58	182.32	4.88	215.59	96.24		
1-Oct-07	17:33:34	7.62	11.62	183.32	4.64	215.58	95.80		
1-Oct-07	17:33:44	7.58	11.68	183.92	4.74	217.99	96.55		
1-Oct-07	17:33:54	7.58	11.67	183.52	5.46	218.74	96.87		
1-Oct-07	17:34:04	7.59	11.68	182.91	6.40	218.68	96.95		
1-Oct-07	17:34:14	7.69	11.62	182.90	7.12	217.72	97.26		
1-Oct-07	17:34:24	7.72	11.55	182.91	7.48	216.06	96.72		
1-Oct-07	17:34:34	7.63	11.58	182.91	7.26	214.33	95.30		
1-Oct-07	17:34:45	7.54	11.69	182.45	6.68	214.19	94.62		
1-Oct-07	17:34:54	7.64	11.67	181.42	6.19	215.88	96.03		
1-Oct-07	17:35:04	7.69	11.59	180.90	5.88	216.78	96.84		
1-Oct-07	17:35:14	7.65	11.60	181.31	5.58	215.75	96.07		
1-Oct-07	17:35:24	7.59	11.64	181.51	5.34	214.35	94.99		
1-Oct-07	17:35:34	7.49	11.73	180.91	5.26	214.19	94.24		
1-Oct-07	17:35:45	7.47	11.76	180.91	5.71	215.50	94.69		
1-Oct-07	17:35:54	7.37	11.80	180.91	6.76	213.60	93.15		
1-Oct-07	17:36:04	7.35	11.88	181.34	7.92	212.60	92.54		
1-Oct-07	17:36:14	7.39	11.86	181.90	8.84	212.41	92.75		
1-Oct-07	17:36:24	7.41	11.83	182.30	9.04	211.94	92.69		
1-Oct-07	17:36:35	7.41	11.81	182.91	8.66	210.28	91.98		
1-Oct-07	17:36:44	7.38	11.83	182.91	8.29	209.08	91.22		
1-Oct-07	17:36:54	7.34	11.88	183.33	9.22	206.46	89.84		
1-Oct-07	17:37:04	7.40	11.87	184.32	12.93	203.75	89.06		
1-Oct-07	17:37:14	7.46	11.78	184.93	17.85	201.93	88.62		
1-Oct-07	17:37:25	7.43	11.80	184.97	20.79	200.04	87.59		

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	17:37:34	7.49	11.79	184.54	20.91	198.51	87.31		
1-Oct-07	17:37:44	7.53	11.73	184.45	18.93	196.43	86.67		
1-Oct-07	17:37:54	7.52	11.71	185.45	15.31	193.74	85.45		
1-Oct-07	17:38:04	7.49	11.75	185.71	11.45	191.57	84.31		
1-Oct-07	17:38:14	7.54	11.74	185.01	8.58	190.37	84.09		
1-Oct-07	17:38:24	7.69	11.64	185.06	6.94	189.84	84.76		
1-Oct-07	17:38:34	7.76	11.53	185.04	5.98	188.75	84.73		
1-Oct-07	17:38:45	7.68	11.54	185.61	5.34	186.12	83.09		
1-Oct-07	17:38:54	7.58	11.64	186.04	4.90	183.84	81.41		
1-Oct-07	17:39:04	7.54	11.71	185.98	4.58	183.86	81.17		
1-Oct-07	17:39:14	7.44	11.76	185.59	4.52	185.50	81.30		
1-Oct-07	17:39:24	7.41	11.84	185.36	5.41	187.90	82.15		
1-Oct-07	17:39:35	7.50	11.79	185.98	7.18	192.31	84.67		
1-Oct-07	17:39:45	7.53	11.73	185.45	8.50	194.48	85.84		
1-Oct-07	17:39:54	7.55	11.72	184.50	8.83	193.88	85.70		
1-Oct-07	17:40:04	7.59	11.70	183.95	8.56	193.93	85.98		
1-Oct-07	17:40:14	7.66	11.63	183.92	7.70	193.24	86.10		
1-Oct-07	17:40:24	7.69	11.60	183.93	6.54	192.83	86.14		
1-Oct-07	17:40:35	7.72	11.56	183.96	5.49	193.07	86.42		
1-Oct-07	17:40:44	7.63	11.60	183.93	4.76	192.41	85.57		
1-Oct-07	17:40:54	7.62	11.67	183.91	4.38	192.11	85.35		
1-Oct-07	17:41:04	7.67	11.65	184.33	4.26	193.23	86.19		
1-Oct-07	17:41:14	7.68	11.60	184.89	4.20	195.55	87.24		
1-Oct-07	17:41:25	7.66	11.60	184.46	4.10	195.68	87.19		
1-Oct-07	17:41:34	7.65	11.61	183.48	4.20	195.69	87.12		
1-Oct-07	17:41:44	7.62	11.64	183.31	4.44	197.08	87.55		
1-Oct-07	17:41:54	7.63	11.65	183.90	4.68	198.08	88.09		
1-Oct-07	17:42:04	7.67	11.62	183.89	4.76	199.44	88.95		
1-Oct-07	17:42:15	7.72	11.58	183.93	4.63	200.54	89.75		
1-Oct-07	17:42:24	7.76	11.54	184.35	4.42	201.78	90.62		
1-Oct-07	17:42:34	7.78	11.51	184.93	4.06	201.95	90.83		
1-Oct-07	17:42:44	7.74	11.52	184.92	3.68	202.04	90.61		
1-Oct-07	17:42:54	7.74	11.54	184.91	3.44	202.14	90.64		
1-Oct-07	17:43:04	7.75	11.54	185.35	3.42	202.71	90.93		
1-Oct-07	17:43:14	7.70	11.55	185.94	3.58	204.15	91.27		
1-Oct-07	17:43:24	7.56	11.65	186.37	4.20	205.79	91.02		
1-Oct-07	17:43:35	7.54	11.72	187.46	5.83	207.72	91.73		
1-Oct-07	17:43:44	7.57	11.71	187.16	7.76	211.45	93.62		
1-Oct-07	17:43:54	7.63	11.67	185.64	8.84	214.49	95.34		
1-Oct-07	17:44:04	7.67	11.62	185.15	9.22	215.55	96.10		
1-Oct-07	17:44:14	7.64	11.62	185.14	8.96	214.26	95.32		
1-Oct-07	17:44:24	7.59	11.65	184.70	8.10	214.41	95.06		
1-Oct-07	17:44:35	7.58	11.69	184.00	6.90	213.71	94.68		
1-Oct-07	17:44:44	7.67	11.66	183.49	5.86	215.04	95.92		
1-Oct-07	17:44:54	7.80	11.56	182.54	5.14	216.29	97.39		
1-Oct-07	17:45:04	7.82	11.48	182.33	4.56	215.59	97.25		
1-Oct-07	17:45:14	7.83	11.48	183.35	4.12	214.17	96.65		
1-Oct-07	17:45:25	7.77	11.50	183.97	3.83	211.61	95.06		
1-Oct-07	17:45:34	7.70	11.57	184.43	3.76	209.40	93.61		
1-Oct-07	17:45:44	7.73	11.57	184.98	4.24	208.95	93.64		
1-Oct-07	17:45:54	7.65	11.59	184.57	4.98	209.05	93.06		
1-Oct-07	17:46:04	7.63	11.66	183.94	5.38	209.46	93.16		
1-Oct-07	17:46:15	7.58	11.67	183.95	5.46	207.74	92.02		
1-Oct-07	17:46:24	7.50	11.74	183.93	5.73	205.95	90.66		
1-Oct-07	17:46:54	7.68	11.66	184.22	8.06	208.74	93.15		
1-Oct-07	17:47:24	7.81	11.49	184.78	8.02	199.06	89.75		
1-Oct-07	17:47:54	7.78	11.51	185.25	5.24	196.52	88.36		
1-Oct-07	17:48:24	7.72	11.57	184.09	4.71	196.92	88.12		

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	17:48:54	7.78	11.51	183.57	4.15	197.04	88.59		
1-Oct-07	17:49:25	7.69	11.56	183.92	3.41	196.49	87.76		
Average:	**17:49:27**	**7.23**	**9.86**	**172.83**	**13.59**	**177.62**	**64.94**		
Maximum	17:49:27	22.61	17.59	515.25	98.96	507.18	233.21		0
Minimum	17:49:27	0.00	-0.11	2.04	-1.25	1.26	-944.36		0
Std Dev	17:49:27	6.15	4.98	123.03	23.90	134.57	79.79		0
1-Oct-07	17:50:46	20.50	0.02	182.19	2.18	10.53	143.09	SE Pt 3	
1-Oct-07	17:51:16	20.62	0.00	178.51	1.38	3.26	68.79	SE Pt 3	
1-Oct-07	17:51:47	20.65	0.00	151.70	0.68	2.32	55.19	SE Pt 3	
1-Oct-07	17:52:16	20.67	-0.01	109.57	0.38	2.21	57.46	SE Pt 3	
1-Oct-07	17:52:47	20.68	-0.01	77.52	0.26	2.00	54.69	SE Pt 3	
Average:	**17:52:52**	**20.62**	**0.00**	**139.90**	**0.98**	**4.06**	**75.84**	**SE Pt 3**	**Abort**
Maximum	17:52:52	20.68	0.02	182.19	2.18	10.53	143.09	SE Pt 3	
Minimum	17:52:52	20.50	-0.01	77.52	0.26	2.00	54.69	SE Pt 3	Abort
Std Dev	17:52:52	0.08	0.01	45.36	0.80	3.65	38.03	SE Pt 3	
1-Oct-07	18:33:59	7.49	11.73	160.99	8.31	193.14	84.98	SE Pt 3	
1-Oct-07	18:34:28	7.72	11.52	162.08	7.00	190.74	85.40	SE Pt 3	
1-Oct-07	18:34:58	7.69	11.52	162.71	4.46	186.28	83.22	SE Pt 3	
1-Oct-07	18:35:28	7.75	11.48	162.40	3.81	187.21	84.01	SE Pt 3	
1-Oct-07	18:35:58	7.66	11.51	162.99	3.71	189.33	84.40	SE Pt 3	
1-Oct-07	18:36:28	7.52	11.69	163.34	4.17	195.52	86.23	SE Pt 3	
1-Oct-07	18:36:58	7.74	11.50	167.29	5.77	197.44	88.49	SE Pt 3	
1-Oct-07	18:37:28	7.67	11.53	169.76	4.79	198.35	88.42	SE Pt 3	
1-Oct-07	18:37:59	7.60	11.59	169.45	4.04	199.45	88.49	SE Pt 3	
1-Oct-07	18:38:28	7.57	11.63	170.08	3.87	203.18	89.94	SE Pt 3	
1-Oct-07	18:38:58	7.51	11.66	171.10	3.80	209.84	92.45	SE Pt 3	
1-Oct-07	18:39:28	7.54	11.66	171.05	3.78	207.46	91.60	SE Pt 3	
1-Oct-07	18:39:58	7.53	11.65	171.09	3.91	208.13	91.86	SE Pt 3	
1-Oct-07	18:40:28	7.69	11.52	171.70	3.98	214.91	96.02	SE Pt 3	
1-Oct-07	18:40:58	7.72	11.49	169.94	3.63	211.10	94.49	SE Pt 3	
1-Oct-07	18:41:28	7.69	11.50	169.02	3.88	203.93	91.06	SE Pt 3	
1-Oct-07	18:41:59	7.80	11.43	169.48	4.97	201.24	90.63	SE Pt 3	
Average:	**18:42:01**	**7.64**	**11.57**	**167.32**	**4.58**	**199.84**	**88.92**	**SE Pt 3**	
Maximum	18:42:01	7.80	11.73	171.70	8.31	214.91	96.02	SE Pt 3	
Minimum	18:42:01	7.49	11.43	160.99	3.63	186.28	83.22	SE Pt 3	
Std Dev	18:42:01	0.10	0.09	3.89	1.30	8.73	3.80	SE Pt 3	
1-Oct-07	18:45:29	7.51	11.64	173.07	3.42	185.81	81.85	SE Pt 2	
1-Oct-07	18:45:59	7.58	11.62	173.49	3.83	191.69	84.90	SE Pt 2	
1-Oct-07	18:46:30	7.55	11.64	175.27	4.40	192.85	85.20	SE Pt 2	
1-Oct-07	18:46:59	7.64	11.58	175.70	4.71	197.58	87.90	SE Pt 2	
1-Oct-07	18:47:29	7.70	11.49	175.17	4.73	197.75	88.37	SE Pt 2	
1-Oct-07	18:47:59	7.60	11.61	175.42	4.04	202.54	89.85	SE Pt 2	
1-Oct-07	18:48:29	7.77	11.47	176.13	3.59	204.41	91.87	SE Pt 2	
1-Oct-07	18:48:59	7.81	11.41	176.85	3.40	202.99	91.52	SE Pt 2	
1-Oct-07	18:49:29	7.82	11.40	176.35	3.35	200.05	90.21	SE Pt 2	
1-Oct-07	18:49:59	7.78	11.42	175.98	3.42	197.28	88.75	SE Pt 2	
1-Oct-07	18:50:30	7.71	11.50	175.04	3.49	197.52	88.36	SE Pt 2	
1-Oct-07	18:50:59	7.84	11.37	174.65	3.40	197.50	89.20	SE Pt 2	
1-Oct-07	18:51:29	7.61	11.56	173.32	3.30	191.24	84.89	SE Pt 2	
1-Oct-07	18:51:59	7.58	11.61	173.45	3.58	190.55	84.43	SE Pt 2	
1-Oct-07	18:52:29	7.69	11.53	173.52	3.74	196.05	87.56	SE Pt 2	
1-Oct-07	18:52:59	7.73	11.49	175.17	3.65	195.41	87.57	SE Pt 2	
1-Oct-07	18:53:32	7.81	11.42	176.04	3.46	191.87	86.47	SE Pt 2	
1-Oct-07	18:53:59	7.79	11.41	176.09	5.22	189.75	85.43	SE Pt 2	
Average:	**18:54:00**	**7.70**	**11.51**	**175.04**	**3.82**	**195.71**	**87.46**	**SE Pt 2**	
Maximum	18:54:00	7.84	11.64	176.85	5.22	204.41	91.87	SE Pt 2	
Minimum	18:54:00	7.51	11.37	173.07	3.30	185.81	81.85	SE Pt 2	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Std Dev	18:54:00	0.11	0.09	1.19	0.57	5.03	2.65	SE Pt 2	
1-Oct-07	18:58:36	7.67	11.52	174.05	10.32	199.23	88.85	SE Pt 1	
1-Oct-07	18:59:06	7.72	11.55	174.11	8.94	195.65	87.59	SE Pt 1	
1-Oct-07	18:59:36	7.88	11.37	174.44	6.64	183.00	82.92	SE Pt 1	
1-Oct-07	19:00:06	7.73	11.48	174.74	4.27	179.91	80.61	SE Pt 1	
1-Oct-07	19:00:36	7.61	11.59	175.10	3.89	185.25	82.22	SE Pt 1	
1-Oct-07	19:01:07	7.38	11.82	176.01	9.44	185.78	81.06	SE Pt 1	
1-Oct-07	19:01:36	7.47	11.73	176.19	13.68	187.44	82.37	SE Pt 1	
1-Oct-07	19:02:06	7.64	11.61	177.17	16.76	189.74	84.44	SE Pt 1	
1-Oct-07	19:02:36	7.53	11.63	178.16	12.52	189.19	83.49	SE Pt 1	
1-Oct-07	19:03:06	7.43	11.78	177.17	17.78	192.50	84.31	SE Pt 1	
1-Oct-07	19:03:36	7.61	11.61	177.03	22.21	194.17	86.22	SE Pt 1	
1-Oct-07	19:04:06	7.45	11.72	176.85	10.85	194.35	85.23	SE Pt 1	
1-Oct-07	19:04:36	7.45	11.79	175.25	9.50	208.18	91.33	SE Pt 1	
1-Oct-07	19:05:07	7.65	11.61	177.12	9.92	209.19	93.18	SE Pt 1	
1-Oct-07	19:05:36	7.58	11.63	177.23	6.05	209.49	92.82	SE Pt 1	
1-Oct-07	19:06:06	7.53	11.69	178.34	5.00	215.82	95.24	SE Pt 1	
Average:	**19:06:11**	**7.58**	**11.63**	**176.19**	**10.49**	**194.93**	**86.37**	**SE Pt 1**	
Maximum	19:06:11	7.88	11.82	178.34	22.21	215.82	95.24	SE Pt 1	
Minimum	19:06:11	7.38	11.37	174.05	3.89	179.91	80.61	SE Pt 1	
Std Dev	19:06:11	0.13	0.12	1.41	5.14	10.69	4.64	SE Pt 1	
1-Oct-07	19:13:33	7.66	11.57	175.86	7.63	193.02	86.04	NE Pt 3	
1-Oct-07	19:14:03	7.65	11.55	175.13	5.32	198.42	88.37	NE Pt 3	
1-Oct-07	19:14:33	7.65	11.60	175.61	4.03	203.79	90.72	NE Pt 3	
1-Oct-07	19:15:03	7.78	11.48	176.00	4.09	206.49	92.86	NE Pt 3	
1-Oct-07	19:15:33	7.55	11.65	176.71	4.03	202.20	89.34	NE Pt 3	
1-Oct-07	19:16:03	7.43	11.80	176.17	14.49	204.72	89.70	NE Pt 3	
1-Oct-07	19:16:34	7.63	11.63	176.06	22.91	207.24	92.12	NE Pt 3	
1-Oct-07	19:17:03	7.70	11.55	177.20	12.31	200.66	89.68	NE Pt 3	
1-Oct-07	19:17:33	7.76	11.51	177.26	5.71	190.91	85.70	NE Pt 3	
1-Oct-07	19:18:03	7.83	11.45	177.11	4.98	184.75	83.37	NE Pt 3	
1-Oct-07	19:18:33	7.90	11.36	177.43	5.66	182.41	82.79	NE Pt 3	
1-Oct-07	19:19:03	7.67	11.52	176.34	4.98	183.60	81.89	NE Pt 3	
1-Oct-07	19:19:33	7.55	11.66	175.70	7.29	195.07	86.18	NE Pt 3	
1-Oct-07	19:20:03	7.44	11.77	175.71	8.21	199.10	87.28	NE Pt 3	
1-Oct-07	19:20:33	7.55	11.69	176.30	11.62	203.51	89.94	NE Pt 3	
1-Oct-07	19:21:03	7.57	11.66	177.25	10.01	202.93	89.86	NE Pt 3	
Average:	**19:21:05**	**7.64**	**11.59**	**176.36**	**8.33**	**197.43**	**87.87**	**NE Pt 3**	
Maximum	19:21:05	7.90	11.80	177.43	22.91	207.24	92.86	NE Pt 3	
Minimum	19:21:05	7.43	11.36	175.13	4.03	182.41	81.89	NE Pt 3	
Std Dev	19:21:05	0.13	0.12	0.71	5.05	8.25	3.28	NE Pt 3	
1-Oct-07	19:25:30	7.80	11.46	176.13	4.89	194.46	87.55	NE Pt 2	
1-Oct-07	19:26:00	7.90	11.39	175.09	4.59	192.24	87.25	NE Pt 2	
1-Oct-07	19:26:30	7.99	11.30	174.38	4.01	180.65	82.53	NE Pt 2	
1-Oct-07	19:27:00	7.88	11.40	175.43	3.49	176.20	79.84	NE Pt 2	
1-Oct-07	19:27:30	7.84	11.39	176.30	3.23	175.05	79.10	NE Pt 2	
1-Oct-07	19:28:00	7.67	11.57	176.41	3.62	177.69	79.22	NE Pt 2	
1-Oct-07	19:28:31	7.70	11.55	177.04	3.97	182.82	81.70	NE Pt 2	
1-Oct-07	19:29:00	7.73	11.53	177.04	3.66	185.69	83.19	NE Pt 2	
1-Oct-07	19:29:31	7.80	11.49	176.87	3.30	185.89	83.73	NE Pt 2	
1-Oct-07	19:30:00	7.87	11.39	178.13	3.25	186.30	84.38	NE Pt 2	
1-Oct-07	19:30:30	7.91	11.38	177.46	3.18	191.37	86.92	NE Pt 2	
1-Oct-07	19:31:00	7.93	11.34	176.90	3.71	192.81	87.71	NE Pt 2	
1-Oct-07	19:31:30	7.80	11.44	176.76	4.70	194.65	87.69	NE Pt 2	
1-Oct-07	19:32:01	7.66	11.56	176.24	5.62	201.12	89.63	NE Pt 2	
1-Oct-07	19:32:30	7.50	11.68	176.16	5.09	206.35	90.89	NE Pt 2	
1-Oct-07	19:33:00	7.56	11.69	176.11	6.79	211.30	93.45	NE Pt 2	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Average:	**19:33:03**	**7.78**	**11.47**	**176.40**	**4.19**	**189.66**	**85.30**	**NE Pt 2**	
Maximum	19:33:03	7.99	11.69	178.13	6.79	211.30	93.45	NE Pt 2	
Minimum	19:33:03	7.50	11.30	174.38	3.18	175.05	79.10	NE Pt 2	
Std Dev	19:33:03	0.14	0.12	0.92	1.02	10.50	4.27	NE Pt 2	
1-Oct-07	19:37:30	9.79	9.71	152.77	4.57	159.47	84.66	NE Pt 1	
1-Oct-07	19:38:00	9.75	9.69	151.10	12.79	159.83	84.60	NE Pt 1	
1-Oct-07	19:38:30	9.84	9.69	149.31	24.26	160.20	85.44	NE Pt 1	
1-Oct-07	19:39:00	9.60	9.84	148.26	12.85	158.57	82.81	NE Pt 1	
1-Oct-07	19:39:30	9.94	9.61	147.84	7.49	159.76	85.99	NE Pt 1	
1-Oct-07	19:40:01	10.06	9.45	148.05	6.46	156.10	85.00	NE Pt 1	
1-Oct-07	19:40:30	10.00	9.54	147.20	4.22	155.36	84.11	NE Pt 1	
1-Oct-07	19:41:00	10.29	9.31	146.22	3.95	156.65	87.09	NE Pt 1	
1-Oct-07	19:41:30	10.43	9.16	145.89	4.18	154.18	86.85	NE Pt 1	
1-Oct-07	19:42:00	10.50	9.05	144.70	7.37	150.44	85.36	NE Pt 1	
1-Oct-07	19:42:30	10.41	9.13	141.89	11.41	156.66	88.15	NE Pt 1	
1-Oct-07	19:43:00	10.34	9.20	139.63	9.88	155.64	86.95	NE Pt 1	
1-Oct-07	19:43:30	10.08	9.40	139.16	5.72	151.56	82.68	NE Pt 1	
1-Oct-07	19:44:01	10.16	9.33	140.23	4.10	152.05	83.60	NE Pt 1	
1-Oct-07	19:44:30	10.01	9.52	141.15	3.71	154.97	83.95	NE Pt 1	
1-Oct-07	19:45:00	10.28	9.32	142.68	3.08	154.65	85.92	NE Pt 1	
Average:	**19:45:03**	**10.09**	**9.43**	**145.38**	**7.88**	**156.00**	**85.20**	**NE Pt 1**	
Maximum	19:45:03	10.50	9.84	152.77	24.26	160.20	88.15	NE Pt 1	
Minimum	19:45:03	9.60	9.05	139.16	3.08	150.44	82.68	NE Pt 1	
Std Dev	19:45:03	0.27	0.23	4.20	5.47	3.04	1.58	NE Pt 1	
1-Oct-07	19:54:31	7.79	11.47	175.28	6.55	199.46	89.80	NW Pt 3	
1-Oct-07	19:55:00	7.93	11.32	174.71	6.78	188.32	85.69	NW Pt 3	
1-Oct-07	19:55:30	7.95	11.29	175.49	4.89	181.37	82.65	NW Pt 3	
1-Oct-07	19:56:00	7.73	11.46	175.87	3.64	179.00	80.19	NW Pt 3	
1-Oct-07	19:56:30	7.84	11.40	175.32	3.35	183.24	82.81	NW Pt 3	
1-Oct-07	19:57:00	7.83	11.39	175.32	3.35	181.82	82.06	NW Pt 3	
1-Oct-07	19:57:30	7.90	11.36	175.43	3.58	186.12	84.48	NW Pt 3	
1-Oct-07	19:58:00	7.98	11.25	176.42	3.35	185.99	84.96	NW Pt 3	
1-Oct-07	19:58:31	7.73	11.47	177.08	2.97	186.80	83.66	NW Pt 3	
1-Oct-07	19:59:00	7.80	11.48	177.34	3.82	193.50	87.14	NW Pt 3	
1-Oct-07	19:59:30	7.85	11.34	178.23	4.44	191.25	86.50	NW Pt 3	
1-Oct-07	20:00:00	7.64	11.53	179.20	5.41	190.30	84.66	NW Pt 3	
1-Oct-07	20:00:30	7.79	11.44	178.38	8.71	195.07	87.78	NW Pt 3	
1-Oct-07	20:01:00	7.82	11.40	178.36	6.47	193.75	87.38	NW Pt 3	
1-Oct-07	20:01:30	7.78	11.43	178.81	4.14	195.44	87.88	NW Pt 3	
1-Oct-07	20:02:00	7.65	11.51	178.80	3.67	197.91	88.12	NW Pt 3	
Average:	**20:02:00**	**7.81**	**11.41**	**176.88**	**4.69**	**189.34**	**85.36**	**NW Pt 3**	
Maximum	20:02:00	7.98	11.53	179.20	8.71	199.46	89.80	NW Pt 3	
Minimum	20:02:00	7.64	11.25	174.71	2.97	179.00	80.19	NW Pt 3	
Std Dev	20:02:00	0.10	0.08	1.56	1.64	6.22	2.63	NW Pt 3	
1-Oct-07	20:06:31	7.81	11.40	176.45	4.21	194.24	87.54	NW Pt 2	
1-Oct-07	20:07:00	7.76	11.42	176.87	3.41	194.53	87.32	NW Pt 2	
1-Oct-07	20:07:30	7.59	11.58	177.08	8.04	196.71	87.22	NW Pt 2	
1-Oct-07	20:08:00	7.59	11.58	176.27	14.52	200.34	88.82	NW Pt 2	
1-Oct-07	20:08:30	7.59	11.61	176.64	10.88	203.29	90.10	NW Pt 2	
1-Oct-07	20:09:00	7.74	11.48	176.62	10.20	200.51	89.89	NW Pt 2	
1-Oct-07	20:09:31	7.75	11.47	176.27	8.50	195.47	87.68	NW Pt 2	
1-Oct-07	20:10:00	7.83	11.37	176.65	5.27	192.79	87.06	NW Pt 2	
1-Oct-07	20:10:30	7.66	11.52	175.57	4.46	190.85	85.05	NW Pt 2	
1-Oct-07	20:11:00	7.74	11.49	176.19	6.67	194.17	87.07	NW Pt 2	
1-Oct-07	20:11:30	7.86	11.37	175.31	6.21	190.74	86.29	NW Pt 2	
1-Oct-07	20:12:00	7.77	11.41	175.41	4.03	186.25	83.67	NW Pt 2	
1-Oct-07	20:12:30	7.71	11.49	176.22	3.58	186.55	83.44	NW Pt 2	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	20:13:00	7.87	11.36	176.16	3.65	185.61	84.07	NW Pt 2	
1-Oct-07	20:13:31	7.88	11.33	175.97	3.42	179.31	81.24	NW Pt 2	
1-Oct-07	20:14:00	7.66	11.50	175.74	4.36	179.00	79.75	NW Pt 2	
Average:	**20:14:07**	**7.74**	**11.46**	**176.21**	**6.34**	**191.90**	**86.01**	**NW Pt 2**	
Maximum	20:14:07	7.88	11.61	177.08	14.52	203.29	90.10	NW Pt 2	
Minimum	20:14:07	7.59	11.33	175.31	3.41	179.00	79.75	NW Pt 2	
Std Dev	20:14:07	0.10	0.09	0.51	3.27	7.10	2.93	NW Pt 2	
1-Oct-07	20:19:28	7.58	11.60	175.87	3.52	199.75	88.45	NW Pt 1	
1-Oct-07	20:19:59	7.58	11.59	175.35	4.12	202.55	89.69	NW Pt 1	
1-Oct-07	20:20:28	7.71	11.51	174.82	4.69	206.69	92.43	NW Pt 1	
1-Oct-07	20:20:58	7.77	11.41	174.05	4.53	204.67	91.94	NW Pt 1	
1-Oct-07	20:21:28	7.82	11.39	174.87	4.54	202.14	91.21	NW Pt 1	
1-Oct-07	20:21:58	7.72	11.43	174.67	4.18	199.29	89.24	NW Pt 1	
1-Oct-07	20:22:29	7.54	11.63	174.15	5.38	198.67	87.75	NW Pt 1	
1-Oct-07	20:22:58	7.75	11.46	175.58	6.44	200.15	89.79	NW Pt 1	
1-Oct-07	20:23:28	7.73	11.45	176.51	5.10	196.35	87.97	NW Pt 1	
1-Oct-07	20:23:58	7.87	11.34	176.01	4.31	193.37	87.55	NW Pt 1	
1-Oct-07	20:24:28	7.70	11.45	174.99	3.80	185.76	83.01	NW Pt 1	
1-Oct-07	20:24:58	7.71	11.49	175.36	4.99	187.17	83.73	NW Pt 1	
1-Oct-07	20:25:28	7.58	11.56	175.54	5.43	186.00	82.40	NW Pt 1	
1-Oct-07	20:25:58	7.51	11.63	175.44	7.83	186.57	82.19	NW Pt 1	
1-Oct-07	20:26:29	7.52	11.65	175.42	13.28	186.71	82.36	NW Pt 1	
1-Oct-07	20:26:58	7.59	11.59	174.90	13.00	187.08	82.95	NW Pt 1	
Average:	**20:26:59**	**7.67**	**11.51**	**175.22**	**5.95**	**195.18**	**87.04**	**NW Pt 1**	
Maximum	20:26:59	7.87	11.65	176.51	13.28	206.69	92.43	NW Pt 1	
Minimum	20:26:59	7.51	11.34	174.05	3.52	185.76	82.19	NW Pt 1	
Std Dev	20:26:59	0.11	0.10	0.65	3.00	7.54	3.69	NW Pt 1	
1-Oct-07	20:37:29	7.71	11.47	176.22	3.51	199.41	89.22	SW Pt 3	
1-Oct-07	20:37:59	7.60	11.57	176.89	3.27	206.21	91.45	SW Pt 3	
1-Oct-07	20:38:29	7.64	11.57	177.28	3.52	211.68	94.16	SW Pt 3	
1-Oct-07	20:39:00	7.79	11.43	177.40	3.53	212.12	95.50	SW Pt 3	
1-Oct-07	20:39:29	7.90	11.32	178.16	3.13	207.02	93.96	SW Pt 3	
1-Oct-07	20:39:59	7.77	11.41	178.07	3.06	204.20	91.76	SW Pt 3	
1-Oct-07	20:40:29	7.65	11.53	177.28	3.25	203.96	90.80	SW Pt 3	
1-Oct-07	20:40:59	7.65	11.55	177.19	4.27	198.40	88.32	SW Pt 3	
1-Oct-07	20:41:29	7.58	11.59	176.23	5.49	194.02	85.94	SW Pt 3	
1-Oct-07	20:41:59	7.78	11.46	176.08	4.48	189.46	85.20	SW Pt 3	
1-Oct-07	20:42:29	7.96	11.27	175.88	3.53	179.22	81.71	SW Pt 3	
1-Oct-07	20:43:00	7.75	11.39	176.42	3.20	172.73	77.53	SW Pt 3	
1-Oct-07	20:43:29	7.36	11.78	175.82	3.98	179.07	78.04	SW Pt 3	
1-Oct-07	20:43:59	7.61	11.63	175.77	4.86	186.89	82.96	SW Pt 3	
1-Oct-07	20:44:29	7.77	11.44	175.53	4.06	184.57	82.96	SW Pt 3	
1-Oct-07	20:44:59	7.64	11.53	174.55	3.15	185.81	82.69	SW Pt 3	
Average:	**20:45:00**	**7.70**	**11.50**	**176.55**	**3.77**	**194.67**	**87.01**	**SW Pt 3**	
Maximum	20:45:00	7.96	11.78	178.16	5.49	212.12	95.50	SW Pt 3	
Minimum	20:45:00	7.36	11.27	174.55	3.06	172.73	77.53	SW Pt 3	
Std Dev	20:45:00	0.14	0.13	0.98	0.70	12.45	5.71	SW Pt 3	
1-Oct-07	20:49:30	7.87	11.34	176.40	3.18	197.80	89.55	SW Pt 2	
1-Oct-07	20:50:00	7.73	11.44	176.44	3.00	198.53	88.96	SW Pt 2	
1-Oct-07	20:50:30	7.61	11.60	175.51	3.61	200.77	89.15	SW Pt 2	
1-Oct-07	20:51:00	7.71	11.49	175.12	4.46	198.69	88.90	SW Pt 2	
1-Oct-07	20:51:31	7.69	11.50	174.51	3.97	193.88	86.57	SW Pt 2	
1-Oct-07	20:52:00	7.56	11.63	174.41	4.17	195.94	86.67	SW Pt 2	
1-Oct-07	20:52:30	7.70	11.53	174.47	6.11	195.45	87.37	SW Pt 2	
1-Oct-07	20:53:00	7.75	11.46	174.34	5.32	191.69	86.02	SW Pt 2	
1-Oct-07	20:53:30	7.88	11.38	174.29	4.64	190.41	86.27	SW Pt 2	
1-Oct-07	20:54:00	7.93	11.30	175.67	4.17	184.99	84.15	SW Pt 2	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	20:54:31	7.87	11.36	173.53	3.44	181.17	82.03	SW Pt 2	
1-Oct-07	20:55:00	7.92	11.33	173.41	3.34	181.91	82.70	SW Pt 2	
1-Oct-07	20:55:30	7.92	11.32	174.73	3.30	182.13	82.78	SW Pt 2	
1-Oct-07	20:56:00	7.85	11.37	175.03	3.20	183.28	82.85	SW Pt 2	
1-Oct-07	20:56:30	7.90	11.35	173.74	3.24	184.47	83.73	SW Pt 2	
1-Oct-07	20:57:00	7.91	11.33	173.68	3.26	184.15	83.62	SW Pt 2	
Average:	**20:57:01**	**7.80**	**11.42**	**174.71**	**3.90**	**190.33**	**85.71**	**SW Pt 2**	
Maximum	20:57:01	7.93	11.63	176.44	6.11	200.77	89.55	SW Pt 2	
Minimum	20:57:01	7.56	11.30	173.41	3.00	181.17	82.03	SW Pt 2	
Std Dev	20:57:01	0.12	0.10	0.94	0.88	7.06	2.61	SW Pt 2	
1-Oct-07	21:01:30	9.26	10.12	156.95	8.08	164.84	83.53	SW Pt 1	
1-Oct-07	21:02:01	9.13	10.21	156.48	5.24	165.25	82.84	SW Pt 1	
1-Oct-07	21:02:30	9.19	10.18	157.18	5.14	166.83	84.08	SW Pt 1	
1-Oct-07	21:03:00	9.22	10.16	157.05	4.88	167.01	84.35	SW Pt 1	
1-Oct-07	21:03:30	9.26	10.11	156.66	4.20	170.72	86.54	SW Pt 1	
1-Oct-07	21:04:00	9.20	10.14	156.62	3.20	169.22	85.35	SW Pt 1	
1-Oct-07	21:04:30	9.04	10.33	156.41	3.08	170.54	84.83	SW Pt 1	
1-Oct-07	21:05:00	9.13	10.22	155.55	3.22	175.45	87.93	SW Pt 1	
1-Oct-07	21:05:30	9.12	10.23	155.15	2.79	179.80	90.09	SW Pt 1	
1-Oct-07	21:06:01	9.27	10.13	155.51	2.66	177.87	90.21	SW Pt 1	
1-Oct-07	21:06:30	9.17	10.16	156.34	2.60	172.06	86.57	SW Pt 1	
1-Oct-07	21:07:00	9.10	10.23	155.90	2.78	178.17	89.09	SW Pt 1	
1-Oct-07	21:07:30	9.08	10.28	155.97	2.82	180.98	90.37	SW Pt 1	
1-Oct-07	21:08:00	9.00	10.31	155.84	2.72	182.89	90.65	SW Pt 1	
1-Oct-07	21:08:30	8.81	10.48	157.63	3.49	183.45	89.50	SW Pt 1	
1-Oct-07	21:09:00	8.86	10.50	157.88	7.44	185.55	90.91	SW Pt 1	
Average:	**21:09:01**	**9.11**	**10.24**	**156.44**	**4.02**	**174.41**	**87.30**	**SW Pt 1**	
Maximum	21:09:01	9.27	10.50	157.88	8.08	185.55	90.91	SW Pt 1	
Minimum	21:09:01	8.81	10.11	155.15	2.60	164.84	82.84	SW Pt 1	
Std Dev	21:09:01	0.14	0.12	0.77	1.72	6.96	2.86	SW Pt 1	
1-Oct-07	21:16:59	13.55	9.33	3.27	-0.69	1.33	1.07	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:17:09	13.60	9.29	3.33	-0.84	1.17	0.94	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:17:20	13.66	9.23	3.46	-0.81	1.44	1.17	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:17:29	13.69	9.17	3.41	-0.69	1.34	1.10	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:17:39	13.72	9.14	3.29	-0.84	1.71	1.40	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:17:49	13.75	9.09	3.47	-0.82	1.55	1.28	Cal:13.0 O2 10.02 CO2	
Average:	**21:17:55**	**13.66**	**9.21**	**3.37**	**-0.78**	**1.42**	**1.16**	**Cal:13.0 O2 10.02 CO2**	**Abort**
Gas Value:	21:17:55	13	10.02	0	0	0	#N/A	13.0 O2 10.02 CO2	
Diff%ofSpan	21:17:55	2.96%	-4.60%	0.67%	-0.83%	0.28%	#N/A		
1-Oct-07	21:19:49	13.18	9.81	3.47	-0.84	0.91	0.70	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:20:00	13.18	9.81	3.22	-0.81	0.88	0.67	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:20:09	13.18	9.81	3.22	-0.69	0.74	0.56	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:20:19	13.18	9.81	3.39	-0.84	0.86	0.66	Cal:13.0 O2 10.02 CO2	
1-Oct-07	21:20:29	13.18	9.81	3.45	-0.84	1.05	0.80	Cal:13.0 O2 10.02 CO2	
Average:	**21:20:29**	**13.18**	**9.81**	**3.35**	**-0.80**	**0.89**	**0.68**	**Cal:13.0 O2 10.02 CO2**	
Gas Value:	21:20:29	13	10.02	0	0	0	#N/A	13.0 O2 10.02 CO2	
Diff%ofSpan	21:20:29	0.81%	-1.18%	0.66%	-0.85%	0.17%	#N/A		
1-Oct-07	21:31:32	0.06	8.81	237.58	-0.50	0.51	0.14	Cal:244 Nox 9.02 CO2	
1-Oct-07	21:31:42	0.05	8.81	237.65	-0.50	0.54	0.15	Cal:244 Nox 9.02 CO2	
1-Oct-07	21:31:53	0.06	8.81	238.35	-0.50	0.60	0.17	Cal:244 Nox 9.02 CO2	
1-Oct-07	21:32:02	0.05	8.81	238.17	-0.50	0.71	0.20	Cal:244 Nox 9.02 CO2	
1-Oct-07	21:32:12	0.05	8.81	237.47	-0.50	0.58	0.16	Cal:244 Nox 9.02 CO2	
1-Oct-07	21:32:22	0.05	8.81	237.63	-0.50	0.44	0.12	Cal:244 Nox 9.02 CO2	
Average:	**21:32:23**	**0.05**	**8.81**	**237.81**	**-0.50**	**0.56**	**0.16**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	21:32:23	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	21:32:23	#N/A	-1.18%	-1.23%	#N/A	#N/A	#N/A		
1-Oct-07	21:38:16	0.03	-0.06	16.69	0.00	214.17	60.55	Cal:219 SO2	

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
1-Oct-07	21:38:26	0.03	-0.07	16.64	-0.15	214.02	60.51	Cal:219 SO2	
1-Oct-07	21:38:37	0.02	-0.07	16.53	-0.16	214.40	60.58	Cal:219 SO2	
1-Oct-07	21:38:46	0.02	-0.07	15.97	0.00	214.39	60.58	Cal:219 SO2	
1-Oct-07	21:38:56	0.03	-0.07	15.64	-0.15	214.41	60.61	Cal:219 SO2	
Average:	**21:39:03**	**0.03**	**-0.07**	**16.29**	**-0.09**	**214.28**	**60.57**	**Cal:219 SO2**	
Gas Value:	21:39:03	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	21:39:03	#N/A	#N/A	#N/A	#N/A	-0.92%	#N/A		
1-Oct-07	21:42:49	0.00	-0.11	4.65	49.06	1.99	0.56	Cal:47.3 CO	
1-Oct-07	21:42:58	0.01	-0.11	4.58	49.06	1.82	0.51	Cal:47.3 CO	
1-Oct-07	21:43:08	0.00	-0.11	3.76	49.06	1.74	0.49	Cal:47.3 CO	
1-Oct-07	21:43:18	0.01	-0.11	3.51	49.06	1.88	0.53	Cal:47.3 CO	
1-Oct-07	21:43:28	0.00	-0.12	3.50	49.07	1.80	0.51	Cal:47.3 CO	
Average:	**21:43:29**	**0.00**	**-0.11**	**4.00**	**49.06**	**1.84**	**0.52**	**Cal:47.3 CO**	
Gas Value:	21:43:29	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	21:43:29	0.01%	-0.64%	#N/A	1.87%	#N/A	#N/A		

Source Testing And Consulting Services, Inc. Lakeland Utilities

Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	6:14:23	22.38	17.80	1.93	-0.28	1.08	-4.29	Cal:22.4 O2 17.68 CO2	
2-Oct-07	6:14:33	22.38	17.79	1.94	-0.28	0.46	-1.84	Cal:22.4 O2 17.68 CO2	
2-Oct-07	6:14:43	22.39	17.78	1.93	-0.28	0.41	-1.61	Cal:22.4 O2 17.68 CO2	
Average:	**6:14:44**	**22.38**	**17.79**	**1.94**	**-0.28**	**0.65**	**-2.58**	**Cal:22.4 O2 17.68 CO2**	
Gas Value:	6:14:44	22.4	17.68	#N/A	#N/A	#N/A	#N/A	22.4 O2 17.68 CO2	
Diff%ofSpan	6:14:44	-0.07%	0.62%	#N/A	#N/A	#N/A	#N/A		
2-Oct-07	6:17:56	13.06	9.91	0.30	0.01	0.24	0.18	Cal:13.0 O2 10.02 CO2	
2-Oct-07	6:18:06	13.07	9.91	0.27	0.02	0.30	0.23	Cal:13.0 O2 10.02 CO2	
2-Oct-07	6:18:16	13.06	9.92	0.29	0.05	0.15	0.11	Cal:13.0 O2 10.02 CO2	
Average:	**6:18:16**	**13.06**	**9.92**	**0.29**	**0.03**	**0.23**	**0.17**	**Cal:13.0 O2 10.02 CO2**	
Gas Value:	6:18:16	13	10.02	0	0	0	#N/A	13.0 O2 10.02 CO2	
Diff%ofSpan	6:18:16	0.28%	-0.59%	0.06%	0.03%	0.05%	#N/A		
2-Oct-07	6:23:25	0.07	9.06	506.60	0.22	0.54	0.15	Cal:504 NOx	
2-Oct-07	6:23:35	0.08	9.05	506.36	0.21	0.45	0.13	Cal:504 NOx	
2-Oct-07	6:23:45	0.08	9.05	506.35	0.21	0.57	0.16	Cal:504 NOx	
Average:	**6:23:47**	**0.08**	**9.05**	**506.44**	**0.22**	**0.52**	**0.15**	**Cal:504 NOx**	
Gas Value:	6:23:47	#N/A	#N/A	504	#N/A	#N/A	#N/A	504 NOx	
Diff%ofSpan	6:23:47	#N/A	#N/A	0.48%	#N/A	#N/A	#N/A		
2-Oct-07	6:27:45	0.05	8.90	250.47	0.32	0.55	0.15	Cal:244 Nox 9.02 CO2	
2-Oct-07	6:27:55	0.05	8.90	249.70	0.29	0.42	0.12	Cal:244 Nox 9.02 CO2	
2-Oct-07	6:28:09	0.05	8.90	249.46	0.25	0.26	0.07	Cal:244 Nox 9.02 CO2	
Average:	**6:28:13**	**0.05**	**8.90**	**249.88**	**0.29**	**0.41**	**0.12**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	6:28:13	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	6:28:13	#N/A	-0.67%	1.17%	#N/A	#N/A	#N/A		
2-Oct-07	6:32:15	0.01	-0.18	101.27	94.81	0.02	0.01	Cal:94.3 CO	
2-Oct-07	6:32:25	0.01	-0.18	101.18	94.72	0.28	0.08	Cal:94.3 CO	
2-Oct-07	6:32:35	0.01	-0.18	101.21	94.76	-0.22	-0.06	Cal:94.3 CO	
Average:	**6:32:38**	**0.01**	**-0.18**	**101.22**	**94.76**	**0.03**	**0.01**	**Cal:94.3 CO**	
Gas Value:	6:32:38	#N/A	#N/A	#N/A	94.3	#N/A	#N/A	94.3 CO	
Diff%ofSpan	6:32:38	#N/A	#N/A	#N/A	0.49%	#N/A	#N/A		
2-Oct-07	6:49:04	0.00	-0.19	0.03	47.15	0.05	0.01	Cal:47.3 CO	
2-Oct-07	6:49:14	0.00	-0.19	0.08	47.18	0.49	0.14	Cal:47.3 CO	
2-Oct-07	6:49:24	0.00	-0.19	0.11	47.25	0.22	0.06	Cal:47.3 CO	
Average:	**6:49:26**	**0.00**	**-0.19**	**0.08**	**47.19**	**0.25**	**0.07**	**Cal:47.3 CO**	
Gas Value:	6:49:26	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	6:49:26	0.01%	-1.08%	#N/A	-0.11%	#N/A	#N/A		
2-Oct-07	6:52:11	0.00	-0.19	4.40	0.31	513.80	145.02	Cal:512 SO2	
2-Oct-07	6:52:21	0.00	-0.19	4.39	0.31	514.18	145.15	Cal:512 SO2	
2-Oct-07	6:52:31	0.00	-0.19	4.38	0.31	513.86	145.06	Cal:512 SO2	
Average:	**6:52:31**	**0.00**	**-0.19**	**4.39**	**0.31**	**513.95**	**145.08**	**Cal:512 SO2**	
Gas Value:	6:52:31	#N/A	#N/A	#N/A	#N/A	512	#N/A	512 SO2	
Diff%ofSpan	6:52:31	#N/A	#N/A	#N/A	#N/A	0.38%	#N/A		
2-Oct-07	6:54:08	0.01	-0.19	8.36	0.52	218.11	61.59	Cal:219 SO2	
2-Oct-07	6:54:18	0.00	-0.19	9.66	0.50	218.16	61.59	Cal:219 SO2	
2-Oct-07	6:54:28	0.00	-0.19	10.66	0.43	218.32	61.64	Cal:219 SO2	
Average:	**6:54:29**	**0.00**	**-0.19**	**9.56**	**0.48**	**218.19**	**61.60**	**Cal:219 SO2**	
Gas Value:	6:54:29	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	6:54:29	#N/A	#N/A	#N/A	#N/A	-0.16%	#N/A		
2-Oct-07	7:01:01	0.04	-0.18	11.46	0.40	212.60	60.13	Cal:219 SO2	Bias
2-Oct-07	7:01:12	0.04	-0.17	11.44	0.30	213.45	60.38	Cal:219 SO2	Bias
2-Oct-07	7:01:21	0.05	-0.17	12.18	0.30	213.66	60.45	Cal:219 SO2	Bias
Average:	**7:01:25**	**0.04**	**-0.18**	**11.70**	**0.33**	**213.23**	**60.32**	**Cal:219 SO2**	
Gas Value:	7:01:25	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	7:01:25	#N/A	#N/A	#N/A	#N/A	-1.13%	#N/A		
2-Oct-07	7:04:51	0.19	-0.18	2.80	46.83	2.67	0.76	Cal:47.3 CO	Bias
2-Oct-07	7:05:01	0.16	-0.18	2.34	46.75	2.26	0.64	Cal:47.3 CO	Bias
2-Oct-07	7:05:11	0.20	-0.18	1.85	46.84	2.07	0.59	Cal:47.3 CO	Bias
Average:	**7:05:11**	**0.19**	**-0.18**	**2.33**	**46.81**	**2.34**	**0.67**	**Cal:47.3 CO**	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Gas Value:	7:05:11	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	7:05:11	0.83%	-1.00%	#N/A	-0.52%	#N/A	#N/A		
2-Oct-07	7:09:54	12.98	9.73	0.35	-0.05	0.83	0.62	Cal:13.0 O2 10.02 CO2	Bias
2-Oct-07	7:10:04	12.98	9.75	0.34	-0.07	0.74	0.55	Cal:13.0 O2 10.02 CO2	Bias
2-Oct-07	7:10:14	12.93	9.78	0.36	0.00	0.45	0.33	Cal:13.0 O2 10.02 CO2	Bias
Average:	**7:10:16**	**12.97**	**9.75**	**0.35**	**-0.04**	**0.67**	**0.50**	**Cal:13.0 O2 10.02 CO2**	
Gas Value:	7:10:16	13	10.02	0	0	0	#N/A	13.0 O2 10.02 CO2	
Diff%ofSpan	7:10:16	-0.15%	-1.52%	0.07%	-0.04%	0.13%	#N/A		
2-Oct-07	7:15:50	0.05	8.88	241.99	0.10	0.38	0.11	Cal:244 Nox 9.02 CO2	Bias
2-Oct-07	7:16:00	0.05	8.88	242.51	0.10	0.27	0.08	Cal:244 Nox 9.02 CO2	Bias
2-Oct-07	7:16:10	0.06	8.89	243.62	0.10	0.32	0.09	Cal:244 Nox 9.02 CO2	Bias
Average:	**7:16:10**	**0.05**	**8.88**	**242.71**	**0.10**	**0.32**	**0.09**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	7:16:10	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	7:16:10	#N/A	-0.78%	-0.26%	#N/A	#N/A	#N/A		
2-Oct-07	7:42:08	7.27	11.89	180.45	5.94	236.96	102.58	Monitoring Stack Gas	
2-Oct-07	7:42:38	7.32	11.86	181.41	7.54	233.00	101.21	Monitoring Stack Gas	
2-Oct-07	7:43:08	7.28	11.84	180.51	7.06	230.18	99.72	Monitoring Stack Gas	
2-Oct-07	7:43:38	7.26	11.90	179.89	7.76	225.14	97.37	Monitoring Stack Gas	
Average:	**7:44:00**	**7.28**	**11.87**	**180.57**	**7.08**	**231.32**	**100.22**	**Monitoring Stack Gas**	
Maximum	7:44:00	7.32	11.90	181.41	7.76	236.96	102.58	Monitoring Stack Gas	
Minimum	7:44:00	7.26	11.84	179.89	5.94	225.14	97.37	Monitoring Stack Gas	
Std Dev	7:44:00	0.03	0.03	0.63	0.81	4.97	2.23	Monitoring Stack Gas	
2-Oct-07	7:46:30	7.27	11.88	181.49	12.22	220.99	95.64	Run 2 SW Pt 3	
2-Oct-07	7:47:00	7.20	11.92	182.65	12.41	214.84	92.52	Run 2 SW Pt 3	
2-Oct-07	7:47:30	7.36	11.80	181.69	9.97	208.07	90.68	Run 2 SW Pt 3	
2-Oct-07	7:48:00	7.41	11.76	180.73	7.35	204.99	89.63	Run 2 SW Pt 3	
2-Oct-07	7:48:30	7.33	11.79	181.44	5.45	206.58	89.81	Run 2 SW Pt 3	
2-Oct-07	7:49:00	7.49	11.69	181.13	5.91	206.26	90.71	Run 2 SW Pt 3	
2-Oct-07	7:49:30	7.50	11.65	181.61	5.55	204.22	89.92	Run 2 SW Pt 3	
2-Oct-07	7:50:00	7.48	11.66	181.80	5.08	204.38	89.88	Run 2 SW Pt 3	
2-Oct-07	7:50:30	7.30	11.82	181.02	6.15	209.06	90.70	Run 2 SW Pt 3	
2-Oct-07	7:51:00	7.38	11.76	179.68	8.23	213.04	92.97	Run 2 SW Pt 3	
2-Oct-07	7:51:30	7.26	11.85	181.48	10.33	216.42	93.58	Run 2 SW Pt 3	
2-Oct-07	7:52:00	7.39	11.77	180.44	11.77	219.00	95.61	Run 2 SW Pt 3	
2-Oct-07	7:52:30	7.45	11.69	180.50	8.15	215.31	94.46	Run 2 SW Pt 3	
2-Oct-07	7:53:00	7.39	11.74	181.16	5.42	212.51	92.77	Run 2 SW Pt 3	
2-Oct-07	7:53:30	7.38	11.74	180.91	4.69	213.74	93.30	Run 2 SW Pt 3	
2-Oct-07	7:54:00	7.39	11.73	181.60	6.04	212.38	92.77	Run 2 SW Pt 3	
2-Oct-07	7:54:30	7.26	11.82	181.12	6.50	208.52	90.17	Run 2 SW Pt 2	
2-Oct-07	7:55:00	6.95	12.12	182.77	12.75	211.00	89.24	Run 2 SW Pt 2	
2-Oct-07	7:55:30	7.05	12.07	181.52	24.87	212.17	90.37	Run 2 SW Pt 2	
2-Oct-07	7:56:00	7.20	11.92	183.73	21.40	209.96	90.44	Run 2 SW Pt 2	
2-Oct-07	7:56:30	7.29	11.86	184.00	12.76	208.06	90.23	Run 2 SW Pt 2	
2-Oct-07	7:57:00	7.25	11.86	184.51	7.88	207.06	89.50	Run 2 SW Pt 2	
2-Oct-07	7:57:30	7.32	11.81	184.09	6.14	208.92	90.79	Run 2 SW Pt 2	
2-Oct-07	7:58:00	7.25	11.86	183.58	6.56	213.77	92.41	Run 2 SW Pt 2	
2-Oct-07	7:58:30	7.30	11.82	183.42	6.54	214.64	93.10	Run 2 SW Pt 2	
2-Oct-07	7:59:00	7.39	11.75	183.36	6.44	217.87	95.17	Run 2 SW Pt 2	
2-Oct-07	7:59:31	7.29	11.81	182.19	6.24	216.14	93.67	Run 2 SW Pt 2	
2-Oct-07	8:00:00	7.33	11.83	182.51	5.87	218.68	95.05	Run 2 SW Pt 2	
2-Oct-07	8:00:30	7.37	11.75	181.80	5.67	221.56	96.59	Run 2 SW Pt 2	
2-Oct-07	8:01:01	7.30	11.81	181.51	5.27	223.02	96.73	Run 2 SW Pt 2	
2-Oct-07	8:01:30	7.41	11.77	181.31	6.48	225.02	98.41	Run 2 SW Pt 2	
2-Oct-07	8:02:00	7.46	11.66	181.12	6.43	226.06	99.24	Run 2 SW Pt 2	
2-Oct-07	8:02:30	7.28	11.82	181.63	5.15	229.01	99.19	Run 2 SW Pt 1	
2-Oct-07	8:03:01	7.22	11.86	181.62	6.58	236.68	102.06	Run 2 SW Pt 1	
2-Oct-07	8:03:31	7.63	11.68	182.07	7.06	240.52	107.01	Run 2 SW Pt 1	
2-Oct-07	8:04:00	8.36	10.84	181.63	6.24	228.18	107.33	Run 2 SW Pt 1	
2-Oct-07	8:04:30	8.37	10.83	180.83	6.26	221.74	104.39	Run 2 SW Pt 1	
2-Oct-07	8:05:00	8.21	10.95	175.30	7.63	221.33	102.87	Run 2 SW Pt 1	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	8:05:30	8.31	10.93	172.03	18.48	223.09	104.57	Run 2 SW Pt 1	
2-Oct-07	8:06:00	8.52	10.72	170.38	20.10	215.05	102.45	Run 2 SW Pt 1	
2-Oct-07	8:06:30	8.42	10.78	167.77	11.17	207.33	98.02	Run 2 SW Pt 1	
2-Oct-07	8:07:00	8.52	10.69	164.03	8.58	202.62	96.58	Run 2 SW Pt 1	
2-Oct-07	8:07:30	8.40	10.80	164.25	8.19	195.42	92.26	Run 2 SW Pt 1	
2-Oct-07	8:08:00	8.60	10.67	163.32	7.54	192.28	92.27	Run 2 SW Pt 1	
2-Oct-07	8:08:30	8.68	10.55	162.43	5.63	189.38	91.43	Run 2 SW Pt 1	
2-Oct-07	8:09:00	8.71	10.54	163.06	5.04	183.72	88.90	Run 2 SW Pt 1	
2-Oct-07	8:09:30	8.67	10.51	161.25	5.55	180.76	87.22	Run 2 SW Pt 1	
2-Oct-07	8:10:00	8.49	10.73	160.95	12.08	183.70	87.35	Run 2 SW Pt 1	
Average:	**8:10:00**	**7.64**	**11.51**	**178.22**	**8.62**	**211.98**	**94.37**	**Run 2 SW**	
Maximum	8:10:00	8.71	12.12	184.51	24.87	240.52	107.33	**Run 2 SW**	
Minimum	8:10:00	6.95	10.51	160.95	4.69	180.76	87.22	**Run 2 SW**	
Std Dev	8:10:00	0.53	0.49	7.21	4.52	12.49	5.14	**Run 2 SW**	
2-Oct-07	8:18:33	7.30	11.82	182.63	7.61	204.99	88.96	Run 2 NW Pt 3	
2-Oct-07	8:19:02	7.34	11.81	182.09	5.80	206.61	89.89	Run 2 NW Pt 3	
2-Oct-07	8:19:32	7.37	11.75	181.60	4.73	211.88	92.43	Run 2 NW Pt 3	
2-Oct-07	8:20:03	7.31	11.84	182.81	4.60	217.29	94.35	Run 2 NW Pt 3	
2-Oct-07	8:20:32	7.30	11.81	182.70	4.74	219.53	95.22	Run 2 NW Pt 3	
2-Oct-07	8:21:02	7.18	11.92	182.50	4.79	222.38	95.60	Run 2 NW Pt 3	
2-Oct-07	8:21:32	7.16	11.94	182.36	5.67	228.92	98.27	Run 2 NW Pt 3	
2-Oct-07	8:22:02	7.21	11.93	182.97	7.19	236.41	101.87	Run 2 NW Pt 3	
2-Oct-07	8:22:32	7.28	11.85	182.78	8.08	236.99	102.68	Run 2 NW Pt 3	
2-Oct-07	8:23:02	7.24	11.85	182.72	9.38	237.20	102.42	Run 2 NW Pt 3	
2-Oct-07	8:23:32	7.22	11.93	182.79	9.53	242.36	104.51	Run 2 NW Pt 3	
2-Oct-07	8:24:02	7.29	11.82	184.04	8.18	242.67	105.19	Run 2 NW Pt 3	
2-Oct-07	8:24:32	7.14	11.95	182.68	5.91	241.14	103.36	Run 2 NW Pt 3	
2-Oct-07	8:25:02	7.17	11.94	183.42	5.72	241.63	103.86	Run 2 NW Pt 3	
2-Oct-07	8:25:32	7.19	11.93	183.77	5.82	234.80	101.05	Run 2 NW Pt 3	
2-Oct-07	8:26:02	7.18	11.91	184.05	8.02	225.88	97.16	Run 2 NW Pt 3	
2-Oct-07	8:26:32	7.23	11.89	183.68	11.84	220.77	95.29	Run 2 NW Pt 2	
2-Oct-07	8:27:02	7.32	11.80	184.24	8.72	213.52	92.78	Run 2 NW Pt 2	
2-Oct-07	8:27:32	7.23	11.82	183.57	5.42	208.41	89.98	Run 2 NW Pt 2	
2-Oct-07	8:28:02	7.06	12.00	184.38	8.68	208.92	89.08	Run 2 NW Pt 2	
2-Oct-07	8:28:32	7.25	11.86	184.28	15.44	204.88	88.54	Run 2 NW Pt 2	
2-Oct-07	8:29:02	7.18	11.93	183.94	11.66	201.22	86.56	Run 2 NW Pt 2	
2-Oct-07	8:29:32	7.22	11.87	183.59	7.81	204.53	88.19	Run 2 NW Pt 2	
2-Oct-07	8:30:02	7.30	11.82	183.30	9.96	210.55	91.35	Run 2 NW Pt 2	
2-Oct-07	8:30:32	7.32	11.77	182.50	8.33	212.34	92.22	Run 2 NW Pt 2	
2-Oct-07	8:31:03	7.30	11.81	183.10	5.68	216.61	94.00	Run 2 NW Pt 2	
2-Oct-07	8:31:32	7.41	11.71	183.22	5.52	218.08	95.41	Run 2 NW Pt 2	
2-Oct-07	8:32:02	7.27	11.78	182.59	5.26	220.83	95.60	Run 2 NW Pt 2	
2-Oct-07	8:32:32	7.15	11.96	183.37	6.78	227.86	97.75	Run 2 NW Pt 2	
2-Oct-07	8:33:03	7.24	11.85	182.43	7.68	230.12	99.40	Run 2 NW Pt 2	
2-Oct-07	8:33:32	7.27	11.84	184.65	6.33	230.30	99.72	Run 2 NW Pt 2	
2-Oct-07	8:34:02	7.29	11.81	185.23	6.13	230.55	99.98	Run 2 NW Pt 2	
2-Oct-07	8:34:32	7.27	11.80	185.58	6.60	229.93	99.56	Run 2 NW Pt 1	
2-Oct-07	8:35:03	7.19	11.90	184.03	7.89	234.94	101.13	Run 2 NW Pt 1	
2-Oct-07	8:35:32	7.32	11.80	183.26	9.27	238.37	103.52	Run 2 NW Pt 1	
2-Oct-07	8:36:02	7.48	11.64	182.19	7.10	239.32	105.24	Run 2 NW Pt 1	
2-Oct-07	8:36:32	7.42	11.70	184.64	7.14	238.96	104.58	Run 2 NW Pt 1	
2-Oct-07	8:37:03	7.29	11.79	182.44	12.67	236.27	102.42	Run 2 NW Pt 1	
2-Oct-07	8:37:32	7.50	11.66	181.50	24.67	236.30	104.04	Run 2 NW Pt 1	
2-Oct-07	8:38:02	7.52	11.58	181.34	16.08	229.41	101.18	Run 2 NW Pt 1	
2-Oct-07	8:38:32	7.50	11.60	179.79	7.47	227.93	100.32	Run 2 NW Pt 1	
2-Oct-07	8:39:05	7.37	11.65	180.04	5.55	224.60	97.95	Run 2 NW Pt 1	
2-Oct-07	8:39:32	7.37	11.75	180.31	5.20	228.15	99.49	Run 2 NW Pt 1	
2-Oct-07	8:40:02	7.30	11.78	180.62	5.49	230.48	99.97	Run 2 NW Pt 1	
2-Oct-07	8:40:33	7.12	12.01	181.07	17.60	238.00	101.94	Run 2 NW Pt 1	
2-Oct-07	8:41:03	7.37	11.79	181.25	28.03	238.95	104.17	Run 2 NW Pt 1	
2-Oct-07	8:41:32	7.32	11.77	181.43	16.36	235.68	102.41	Run 2 NW Pt 1	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Average:	**8:42:01**	**7.28**	**11.82**	**182.84**	**8.81**	**225.90**	**97.89**	**Run 2 NW**	
Maximum	8:42:01	7.52	12.01	185.58	28.03	242.67	105.24	Run 2 NW	
Minimum	8:42:01	7.06	11.58	179.79	4.60	201.22	86.56	Run 2 NW	
Std Dev	8:42:01	0.10	0.10	1.31	4.93	12.18	5.37	Run 2 NW	
2-Oct-07	8:50:30	7.29	11.84	183.67	7.30	210.83	91.41	Run 2 NE Pt 3	
2-Oct-07	8:51:00	7.34	11.81	184.21	7.64	208.55	90.75	Run 2 NE Pt 3	
2-Oct-07	8:51:30	7.28	11.83	184.97	7.90	208.37	90.28	Run 2 NE Pt 3	
2-Oct-07	8:52:00	7.33	11.83	184.40	6.62	208.93	90.85	Run 2 NE Pt 3	
2-Oct-07	8:52:30	7.24	11.86	183.04	6.13	210.01	90.74	Run 2 NE Pt 3	
2-Oct-07	8:53:00	7.33	11.83	183.71	9.31	216.80	94.28	Run 2 NE Pt 3	
2-Oct-07	8:53:30	7.17	11.93	183.44	8.62	216.05	92.82	Run 2 NE Pt 3	
2-Oct-07	8:54:00	7.24	11.91	183.70	7.09	221.62	95.76	Run 2 NE Pt.3	
2-Oct-07	8:54:30	7.32	11.84	183.24	7.52	224.38	97.52	Run 2 NE Pt 3	
2-Oct-07	8:55:00	7.31	11.83	184.60	9.15	228.58	99.26	Run 2 NE Pt 3	
2-Oct-07	8:55:30	7.24	11.86	185.02	8.13	232.38	100.40	Run 2 NE Pt 3	
2-Oct-07	8:56:00	7.19	11.97	184.92	12.44	235.11	101.21	Run 2 NE Pt 3	
2-Oct-07	8:56:30	7.21	11.92	183.91	13.12	240.39	103.58	Run 2 NE Pt 3	
2-Oct-07	8:57:00	7.12	12.03	185.17	13.43	240.69	103.07	Run 2 NE Pt 3	
2-Oct-07	8:57:30	7.26	11.89	184.70	20.34	241.05	104.30	Run 2 NE Pt 3	
2-Oct-07	8:58:00	7.22	11.90	184.57	15.00	241.48	104.16	Run 2 NE Pt 3	
2-Oct-07	8:58:30	7.13	12.01	183.58	8.88	245.01	104.97	Run 2 NE Pt 3	
2-Oct-07	8:59:00	7.30	11.89	183.31	7.91	250.48	108.67	Run 2 NE Pt 3	
2-Oct-07	8:59:30	7.36	11.80	185.75	6.80	244.99	106.77	Run 2 NE Pt 3	
2-Oct-07	9:00:00	7.38	11.78	186.53	5.62	238.06	103.91	Run 2 NE Pt 3	
2-Oct-07	9:00:30	7.21	11.92	184.90	5.95	231.01	99.54	Run 2 NE Pt 3	
2-Oct-07	9:01:01	7.23	11.92	184.33	9.36	225.46	97.30	Run 2 NE Pt 3	
2-Oct-07	9:01:30	7.14	12.00	183.48	8.69	219.91	94.29	Run 2 NE Pt 3	
2-Oct-07	9:02:00	7.11	12.03	185.46	7.90	216.40	92.57	Run 2 NE Pt 3	
2-Oct-07	9:02:30	7.13	12.01	186.32	9.20	215.33	92.26	Run 2 NE Pt 3	
2-Oct-07	9:03:01	7.27	11.92	185.77	13.77	214.51	92.87	Run 2 NE Pt 3	
2-Oct-07	9:03:30	7.22	11.91	186.34	12.55	208.39	89.88	Run 2 NE Pt 3	
2-Oct-07	9:04:00	7.30	11.89	185.67	8.40	207.47	90.01	Run 2 NE Pt 3	
2-Oct-07	9:04:30	7.39	11.79	185.76	6.72	212.23	92.67	Run 2 NE Pt 3	
2-Oct-07	9:05:01	7.39	11.78	184.42	6.37	210.10	91.74	Run 2 NE Pt 3	
2-Oct-07	9:05:30	7.35	11.81	183.61	6.52	212.39	92.49	Run 2 NE Pt 3	
2-Oct-07	9:06:00	7.38	11.80	184.27	6.57	213.31	93.09	Run 2 NE Pt 3	
2-Oct-07	9:06:30	7.37	11.80	184.08	5.43	216.60	94.42	Run 2 NE Pt 3	
2-Oct-07	9:07:01	7.31	11.85	184.45	5.66	218.62	94.91	Run 2 NE Pt 3	
2-Oct-07	9:07:30	8.12	11.39	185.11	6.76	219.48	101.80	Run 2 NE Pt 3	
2-Oct-07	9:08:00	9.23	10.11	184.83	10.08	206.09	104.23	Run 2 NE Pt 3	
2-Oct-07	9:08:31	9.25	10.11	180.51	10.19	197.49	100.01	Run 2 NE Pt 3	
2-Oct-07	9:09:00	9.37	9.98	169.09	7.90	196.27	100.43	Run 2 NE Pt 3	
2-Oct-07	9:09:30	9.33	10.03	161.87	6.44	192.99	98.37	Run 2 NE Pt 3	
2-Oct-07	9:10:00	9.36	9.97	159.73	6.20	190.11	97.23	Run 2 NE Pt 3	
2-Oct-07	9:10:31	9.38	9.97	158.36	6.06	185.58	95.05	Run 2 NE Pt 3	
2-Oct-07	9:11:01	9.26	10.07	157.64	8.28	184.15	93.37	Run 2 NE Pt 3	
2-Oct-07	9:11:30	9.32	10.03	156.70	10.82	184.57	94.02	Run 2 NE Pt 3	
2-Oct-07	9:12:00	9.27	10.07	157.10	16.20	183.28	92.99	Run 2 NE Pt 3	
2-Oct-07	9:12:30	9.38	9.96	156.73	16.24	183.56	94.01	Run 2 NE Pt 3	
2-Oct-07	9:13:00	9.21	10.13	155.86	11.22	184.62	93.20	Run 2 NE Pt 3	
2-Oct-07	9:13:30	9.40	9.99	154.89	12.19	189.25	97.06	Run 2 NE Pt 3	
2-Oct-07	9:14:00	9.35	9.99	156.59	9.09	187.56	95.85	Run 2 NE Pt 3	
Average:	**9:14:00**	**7.84**	**11.37**	**178.55**	**9.20**	**213.97**	**96.67**	**Run 2 NE**	
Maximum	9:14:00	9.40	12.03	186.53	20.34	250.48	108.67	Run 2 NE	
Minimum	9:14:00	7.11	9.96	154.89	5.43	183.28	89.88	Run 2 NE	
Std Dev	9:14:00	0.92	0.83	11.19	3.38	18.96	5.07	Run 2 NE	
2-Oct-07	9:22:30	7.20	11.99	185.43	5.55	215.86	92.97	Run 2 SE Pt 3	
2-Oct-07	9:23:00	7.32	11.88	185.57	6.74	212.43	92.31	Run 2 SE Pt 3	
2-Oct-07	9:23:31	7.38	11.81	185.55	6.07	201.09	87.73	Run 2 SE Pt 3	
2-Oct-07	9:24:00	7.28	11.90	184.17	5.58	196.99	85.32	Run 2 SE Pt 3	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	9:24:30	7.27	11.92	185.25	5.34	198.20	85.80	Run 2 SE Pt 3	
2-Oct-07	9:25:00	7.25	11.93	186.29	5.13	202.05	87.32	Run 2 SE Pt 3	
2-Oct-07	9:25:31	7.30	11.90	184.59	5.50	206.58	89.64	Run 2 SE Pt 3	
2-Oct-07	9:26:00	7.21	11.94	185.87	6.51	206.85	89.13	Run 2 SE Pt 3	
2-Oct-07	9:26:30	7.16	12.03	183.56	7.00	208.76	89.62	Run 2 SE Pt 3	
2-Oct-07	9:27:00	7.21	11.98	184.39	6.15	216.59	93.35	Run 2 SE Pt 3	
2-Oct-07	9:27:31	7.22	11.95	186.51	5.90	217.58	93.87	Run 2 SE Pt 3	
2-Oct-07	9:28:00	7.25	11.95	186.63	5.85	222.03	95.98	Run 2 SE Pt 3	
2-Oct-07	9:28:30	7.35	11.84	187.62	5.69	224.65	97.84	Run 2 SE Pt 3	
2-Oct-07	9:29:00	7.31	11.88	187.02	6.31	225.95	98.08	Run 2 SE Pt 3	
2-Oct-07	9:29:31	7.35	11.85	185.66	6.80	230.22	100.28	Run 2 SE Pt 3	
2-Oct-07	9:30:00	7.32	11.82	186.28	5.87	232.65	101.08	Run 2 SE Pt 3	
2-Oct-07	9:30:30	7.22	11.94	185.61	5.94	235.44	101.53	Run 2 SE Pt 2	
2-Oct-07	9:31:01	7.35	11.87	183.96	7.35	238.93	104.03	Run 2 SE Pt 2	
2-Oct-07	9:31:30	7.18	11.96	185.58	7.72	238.54	102.55	Run 2 SE Pt 2	
2-Oct-07	9:32:00	7.03	12.11	185.89	13.45	245.67	104.48	Run 2 SE Pt 2	
2-Oct-07	9:32:30	7.16	12.06	186.32	19.21	249.79	107.24	Run 2 SE Pt 2	
2-Oct-07	9:33:01	7.17	11.98	187.04	16.17	242.76	104.31	Run 2 SE Pt 2	
2-Oct-07	9:33:31	7.25	11.97	187.27	21.72	238.72	103.19	Run 2 SE Pt 2	
2-Oct-07	9:34:00	7.35	11.85	187.64	21.09	230.26	100.29	Run 2 SE Pt 2	
2-Oct-07	9:34:30	7.27	11.88	187.66	10.37	225.86	97.77	Run 2 SE Pt 2	
2-Oct-07	9:35:00	7.25	11.96	185.99	7.33	227.24	98.20	Run 2 SE Pt 2	
2-Oct-07	9:35:30	7.20	11.97	186.00	8.05	227.14	97.82	Run 2 SE Pt 2	
2-Oct-07	9:36:00	7.33	11.89	186.24	8.62	228.72	99.43	Run 2 SE Pt 2	
2-Oct-07	9:36:30	7.34	11.84	186.02	6.28	227.79	99.12	Run 2 SE Pt 2	
2-Oct-07	9:37:00	7.27	11.89	187.29	5.40	226.78	98.20	Run 2 SE Pt 2	
2-Oct-07	9:37:30	7.32	11.88	187.53	11.44	227.99	99.05	Run 2 SE Pt 2	
2-Oct-07	9:38:00	7.29	11.89	186.86	12.99	223.21	96.79	Run 2 SE Pt 2	
2-Oct-07	9:38:30	7.28	11.90	186.86	10.92	219.64	95.17	Run 2 SE Pt 1	
2-Oct-07	9:39:00	7.25	11.93	185.74	7.53	218.86	94.62	Run 2 SE Pt 1	
2-Oct-07	9:39:31	7.33	11.86	185.41	5.59	217.28	94.46	Run 2 SE Pt 1	
2-Oct-07	9:40:00	7.16	12.00	186.44	7.41	216.28	92.85	Run 2 SE Pt 1	
2-Oct-07	9:40:30	7.17	12.02	187.24	11.83	219.37	94.29	Run 2 SE Pt 1	
2-Oct-07	9:41:00	7.16	12.03	187.56	11.25	217.68	93.47	Run 2 SE Pt 1	
2-Oct-07	9:41:30	7.30	11.91	187.45	9.68	218.55	94.79	Run 2 SE Pt 1	
2-Oct-07	9:42:00	7.42	11.79	186.23	7.49	219.57	96.09	Run 2 SE Pt 1	
2-Oct-07	9:42:30	7.43	11.76	186.48	5.17	218.24	95.62	Run 2 SE Pt 1	
2-Oct-07	9:43:00	7.14	11.97	184.65	6.98	220.43	94.55	Run 2 SE Pt 1	
2-Oct-07	9:43:30	6.90	12.26	185.85	29.72	229.15	96.59	Run 2 SE Pt 1	
2-Oct-07	9:44:00	7.19	12.02	186.30	66.07	234.41	100.89	Run 2 SE Pt 1	
2-Oct-07	9:44:30	7.31	11.88	187.28	41.88	228.07	99.04	Run 2 SE Pt 1	
2-Oct-07	9:45:00	7.19	11.98	187.22	15.77	225.32	97.00	Run 2 SE Pt 1	
2-Oct-07	9:45:30	7.29	11.94	185.32	10.70	222.35	96.37	Run 2 SE Pt 1	
2-Oct-07	9:46:01	7.36	11.85	187.59	8.90	216.99	94.54	Run 2 SE Pt 1	
Average:	**9:46:01**	**7.26**	**11.93**	**186.19**	**11.17**	**222.82**	**96.35**	**Run 2 SE**	
Maximum	9:46:01	7.43	12.26	187.66	66.07	249.79	107.24	Run 2 SE	
Minimum	9:46:01	6.90	11.76	183.56	5.13	196.99	85.32	Run 2 SE	
Std Dev	9:46:01	0.10	0.09	1.05	10.66	11.75	4.96	Run 2 SE	
2-Oct-07	9:53:19	0.04	8.86	250.28	0.19	1.41	0.40	Cal:244 Nox 9.02 CO2	
2-Oct-07	9:53:29	0.04	8.86	249.25	0.19	1.31	0.37	Cal:244 Nox 9.02 CO2	
2-Oct-07	9:53:39	0.04	8.86	250.27	0.19	1.57	0.44	Cal:244 Nox 9.02 CO2	
Average:	**9:53:49**	**0.04**	**8.86**	**249.93**	**0.19**	**1.43**	**0.40**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	9:53:49	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	9:53:49	#N/A	-0.90%	1.18%	#N/A	#N/A	#N/A		
2-Oct-07	10:01:11	0.09	-0.09	14.21	0.50	214.30	60.76	Cal:219 SO2	
2-Oct-07	10:01:22	0.09	-0.08	14.25	0.40	214.58	60.83	Cal:219 SO2	
2-Oct-07	10:01:31	0.09	-0.09	14.36	0.39	215.06	60.98	Cal:219 SO2	
2-Oct-07	10:01:41	0.09	-0.09	14.42	0.39	215.03	60.97	Cal:219 SO2	
Average:	**10:01:45**	**0.09**	**-0.09**	**14.31**	**0.42**	**214.75**	**60.88**	**Cal:219 SO2**	
Gas Value:	10:01:45	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Diff%ofSpan	10:01:45	#N/A	#N/A	#N/A	#N/A	-0.83%	#N/A		
2-Oct-07	10:06:33	0.78	-0.12	1.17	45.67	2.31	0.68	Cal:47.3 CO	
2-Oct-07	10:06:44	0.78	-0.12	1.17	45.64	2.60	0.76	Cal:47.3 CO	
2-Oct-07	10:06:53	0.78	-0.12	1.15	45.64	2.35	0.69	Cal:47.3 CO	
2-Oct-07	10:07:03	0.78	-0.12	1.16	45.63	2.32	0.68	Cal:47.3 CO	
2-Oct-07	10:07:13	0.76	-0.12	1.17	45.55	2.05	0.60	Cal:47.3 CO	
2-Oct-07	10:07:23	0.78	-0.12	1.16	45.64	1.70	0.50	Cal:47.3 CO	
2-Oct-07	10:07:33	0.77	-0.12	1.17	45.71	1.58	0.46	Cal:47.3 CO	
2-Oct-07	10:07:43	0.77	-0.12	1.17	45.64	1.64	0.48	Cal:47.3 CO	
2-Oct-07	10:07:53	0.76	-0.12	1.18	45.56	1.72	0.50	Cal:47.3 CO	
Average:	**10:07:56**	**0.77**	**-0.12**	**1.17**	**45.63**	**2.03**	**0.60**	**Cal:47.3 CO**	
Gas Value:	10:07:56	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	10:07:56	3.45%	-0.67%	#N/A	-1.77%	#N/A	#N/A		
2-Oct-07	10:12:25	12.95	-0.14	0.24	0.39	1.05	0.78	Cal:13.0 O2 10.02 CO2	
2-Oct-07	10:12:34	12.94	-0.13	0.22	0.39	0.75	0.55	Cal:13.0 O2 10.02 CO2	
2-Oct-07	10:12:44	12.95	-0.14	0.24	0.41	0.78	0.58	Cal:13.0 O2 10.02 CO2	
2-Oct-07	10:12:54	12.96	-0.14	0.24	0.47	0.39	0.29	Cal:13.0 O2 10.02 CO2	
Average:	**10:12:55**	**12.95**	**-0.14**	**0.23**	**0.42**	**0.74**	**0.55**	**Cal:13.0 O2**	
Gas Value:	10:12:55	13	10.02	0	0	0	#N/A	13.0 O2	
Diff%ofSpan	10:12:55	-0.22%	-57.46%	0.05%	0.44%	0.14%	#N/A		
2-Oct-07	10:35:39	7.23	11.87	187.04	4.46	203.34	87.79	Run 3 SE Pt 3	
2-Oct-07	10:36:09	7.13	11.94	187.44	4.70	201.98	86.57	Run 3 SE Pt 3	
2-Oct-07	10:36:39	7.24	11.88	187.83	6.43	203.27	87.77	Run 3 SE Pt 3	
2-Oct-07	10:37:09	7.21	11.87	187.24	5.85	202.78	87.41	Run 3 SE Pt 3	
2-Oct-07	10:37:39	7.16	11.92	186.58	7.24	205.13	88.07	Run 3 SE Pt 3	
2-Oct-07	10:38:10	7.23	11.91	186.98	27.23	208.09	89.83	Run 3 SE Pt 3	
2-Oct-07	10:38:39	7.26	11.83	186.45	26.50	204.45	88.46	Run 3 SE Pt 3	
2-Oct-07	10:39:09	7.41	11.74	187.78	17.29	207.25	90.66	Run 3 SE Pt 3	
2-Oct-07	10:39:39	7.28	11.81	188.74	11.56	206.92	89.61	Run 3 SE Pt 3	
2-Oct-07	10:40:10	7.33	11.81	188.12	11.95	210.38	91.46	Run 3 SE Pt 3	
2-Oct-07	10:40:39	7.30	11.80	187.71	9.18	213.62	92.70	Run 3 SE Pt 3	
2-Oct-07	10:41:09	7.18	11.90	188.21	6.37	214.46	92.22	Run 3 SE Pt 3	
2-Oct-07	10:41:39	7.10	11.99	188.05	8.82	218.73	93.55	Run 3 SE Pt 3	
2-Oct-07	10:42:09	7.25	11.88	187.26	8.79	223.44	96.59	Run 3 SE Pt 3	
2-Oct-07	10:42:39	7.34	11.77	187.26	6.18	222.90	96.96	Run 3 SE Pt 3	
2-Oct-07	10:43:09	7.21	11.88	187.32	4.78	220.96	95.25	Run 3 SE Pt 3	
2-Oct-07	10:43:39	7.30	11.81	187.81	5.17	218.94	94.96	Run 3 SE Pt 2	
2-Oct-07	10:44:10	7.33	11.76	187.65	5.16	214.17	93.14	Run 3 SE Pt 2	
2-Oct-07	10:44:39	7.25	11.84	187.63	4.53	211.05	91.23	Run 3 SE Pt 2	
2-Oct-07	10:45:09	7.27	11.83	187.13	4.40	212.94	92.18	Run 3 SE Pt 2	
2-Oct-07	10:45:40	6.97	12.04	187.33	6.30	214.06	90.67	Run 3 SE Pt 2	
2-Oct-07	10:46:10	6.98	12.14	187.91	29.94	223.91	94.92	Run 3 SE Pt 2	
2-Oct-07	10:46:39	7.28	11.85	187.11	31.60	220.75	95.61	Run 3 SE Pt 2	
2-Oct-07	10:47:09	7.17	11.89	188.64	13.57	215.20	92.47	Run 3 SE Pt 2	
2-Oct-07	10:47:40	7.20	11.92	188.40	8.34	219.49	94.51	Run 3 SE Pt 2	
2-Oct-07	10:48:09	7.29	11.83	187.84	7.00	218.94	94.94	Run 3 SE Pt 2	
2-Oct-07	10:48:39	7.21	11.85	188.26	5.67	219.16	94.45	Run 3 SE Pt 2	
2-Oct-07	10:49:09	7.05	12.05	188.61	9.14	228.25	97.21	Run 3 SE Pt 2	
2-Oct-07	10:49:39	7.24	11.88	188.04	12.52	232.63	100.51	Run 3 SE Pt 2	
2-Oct-07	10:50:09	7.31	11.80	188.89	8.48	231.66	100.56	Run 3 SE Pt 2	
2-Oct-07	10:50:39	7.15	11.91	188.29	7.43	235.81	101.18	Run 3 SE Pt 2	
2-Oct-07	10:51:09	7.11	11.94	187.46	9.65	242.49	103.79	Run 3 SE Pt 2	
2-Oct-07	10:51:39	7.18	11.91	186.93	7.85	245.06	105.38	Run 3 SE Pt 1	
2-Oct-07	10:52:09	7.19	11.91	187.94	5.94	245.51	105.64	Run 3 SE Pt 1	
2-Oct-07	10:52:39	7.26	11.83	187.72	5.27	242.44	104.88	Run 3 SE Pt 1	
2-Oct-07	10:53:09	7.14	11.95	187.09	5.39	238.20	102.16	Run 3 SE Pt 1	
2-Oct-07	10:53:39	7.15	11.93	187.11	7.14	234.56	100.64	Run 3 SE Pt 1	
2-Oct-07	10:54:09	7.20	11.91	187.41	14.46	229.95	99.01	Run 3 SE Pt 1	
2-Oct-07	10:54:39	7.19	11.91	186.59	16.78	221.73	95.42	Run 3 SE Pt 1	
2-Oct-07	10:55:09	7.16	11.92	186.59	15.91	213.10	91.51	Run 3 SE Pt 1	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	10:55:39	7.12	11.95	186.72	11.84	207.50	88.85	Run 3 SE Pt 1	
2-Oct-07	10:56:09	7.11	11.99	185.40	8.30	204.18	87.37	Run 3 SE Pt 1	
2-Oct-07	10:56:39	7.27	11.82	186.85	6.99	199.24	86.22	Run 3 SE Pt 1	
2-Oct-07	10:57:09	6.98	12.05	188.36	10.95	197.45	83.70	Run 3 SE Pt 1	
2-Oct-07	10:57:39	7.11	12.00	187.92	25.31	202.30	86.57	Run 3 SE Pt 1	
2-Oct-07	10:58:09	7.31	11.81	188.39	17.30	199.68	86.68	Run 3 SE Pt 1	
2-Oct-07	10:58:39	7.24	11.81	188.81	7.66	198.36	85.70	Run 3 SE Pt 1	
2-Oct-07	10:59:09	7.31	11.83	187.98	5.43	204.13	88.63	Run 3 SE Pt 1	
Average:	**10:59:20**	**7.21**	**11.89**	**187.60**	**10.60**	**216.89**	**93.45**	**Run 3 SE**	
Maximum	10:59:20	7.41	12.14	188.89	31.60	245.51	105.64	Run 3 SE	
Minimum	10:59:20	6.97	11.74	185.40	4.40	197.45	83.70	Run 3 SE	
Std Dev	10:59:20	0.10	0.08	0.72	7.02	13.42	5.74	Run 3 SE	
2-Oct-07	11:17:31	7.23	11.86	183.60	9.49	224.70	96.97	Run 3 NE Pt 3	
2-Oct-07	11:18:01	7.14	11.96	184.65	6.41	220.76	94.66	Run 3 NE Pt 3	
2-Oct-07	11:18:31	7.17	11.91	185.67	6.04	218.84	94.03	Run 3 NE Pt 3	
2-Oct-07	11:19:01	6.99	12.05	185.49	6.21	215.55	91.40	Run 3 NE Pt 3	
2-Oct-07	11:19:31	7.14	12.02	185.60	7.84	217.53	93.28	Run 3 NE Pt 3	
2-Oct-07	11:20:01	7.22	11.85	186.65	7.21	206.35	89.00	Run 3 NE Pt 3	
2-Oct-07	11:20:31	6.95	12.07	186.75	8.52	205.78	87.04	Run 3 NE Pt 3	
2-Oct-07	11:21:01	7.01	12.09	184.60	14.50	213.70	90.74	Run 3 NE Pt 3	
2-Oct-07	11:21:31	7.05	12.01	185.14	13.97	213.91	91.15	Run 3 NE Pt 3	
2-Oct-07	11:22:01	7.13	11.97	185.41	9.88	214.65	91.99	Run 3 NE Pt 3	
2-Oct-07	11:22:31	7.07	11.99	184.47	7.28	214.37	91.44	Run 3 NE Pt 3	
2-Oct-07	11:23:01	7.14	11.94	183.64	5.83	218.00	93.47	Run 3 NE Pt 3	
2-Oct-07	11:23:31	7.03	12.02	185.23	4.89	221.48	94.22	Run 3 NE Pt 3	
2-Oct-07	11:24:01	7.05	12.03	186.47	4.62	226.58	96.50	Run 3 NE Pt 3	
2-Oct-07	11:24:32	7.06	12.04	187.03	4.70	232.78	99.22	Run 3 NE Pt 3	
2-Oct-07	11:25:01	7.11	11.95	188.24	4.78	234.02	100.13	Run 3 NE Pt 3	
2-Oct-07	11:25:31	7.17	11.95	189.50	4.93	236.99	101.81	Run 3 NE Pt 2	
2-Oct-07	11:26:01	7.28	11.82	188.52	5.07	236.25	102.35	Run 3 NE Pt 2	
2-Oct-07	11:26:32	7.13	11.93	187.69	4.87	236.99	101.53	Run 3 NE Pt 2	
2-Oct-07	11:27:01	7.11	11.99	185.21	5.48	240.54	102.88	Run 3 NE Pt 2	
2-Oct-07	11:27:31	7.14	11.94	184.48	7.38	245.41	105.19	Run 3 NE Pt 2	
2-Oct-07	11:28:01	7.04	12.04	183.87	8.74	247.16	105.21	Run 3 NE Pt 2	
2-Oct-07	11:28:32	7.17	11.93	183.84	8.41	244.84	105.22	Run 3 NE Pt 2	
2-Oct-07	11:29:01	7.27	11.87	184.06	5.98	240.13	103.91	Run 3 NE Pt 2	
2-Oct-07	11:29:31	7.31	11.79	184.83	4.51	233.53	101.40	Run 3 NE Pt 2	
2-Oct-07	11:30:01	7.17	11.86	185.96	4.20	229.51	98.67	Run 3 NE Pt 2	
2-Oct-07	11:30:32	7.02	12.06	185.12	6.58	229.43	97.56	Run 3 NE Pt 2	
2-Oct-07	11:31:01	7.07	12.00	186.11	7.68	225.15	96.09	Run 3 NE Pt 2	
2-Oct-07	11:31:31	6.99	12.09	185.82	10.59	220.49	93.51	Run 3 NE Pt 2	
2-Oct-07	11:32:02	7.14	11.99	185.14	12.27	215.89	92.54	Run 3 NE Pt 2	
2-Oct-07	11:32:32	7.28	11.83	185.35	7.85	210.35	91.13	Run 3 NE Pt 2	
2-Oct-07	11:33:01	7.10	11.95	185.91	5.63	205.70	87.95	Run 3 NE Pt 2	
2-Oct-07	11:33:31	7.25	11.87	186.78	6.65	207.52	89.69	Run 3 NE Pt 1	
2-Oct-07	11:34:02	7.23	11.85	187.63	6.24	206.54	89.12	Run 3 NE Pt 1	
2-Oct-07	11:34:31	7.23	11.85	186.83	5.15	206.91	89.30	Run 3 NE Pt 1	
2-Oct-07	11:35:01	7.64	11.57	186.68	5.26	206.60	91.94	Run 3 NE Pt 1	
2-Oct-07	11:35:31	7.92	11.23	186.08	8.47	201.95	91.80	Run 3 NE Pt 1	
2-Oct-07	11:36:01	7.93	11.21	182.98	8.87	201.07	91.47	Run 3 NE Pt 1	
2-Oct-07	11:36:31	7.89	11.19	179.96	6.13	199.72	90.59	Run 3 NE Pt 1	
2-Oct-07	11:37:01	7.74	11.36	177.05	5.34	202.85	90.96	Run 3 NE Pt 1	
2-Oct-07	11:37:31	7.92	11.24	176.45	6.22	207.74	94.41	Run 3 NE Pt 1	
2-Oct-07	11:38:01	7.89	11.21	177.29	5.72	207.64	94.20	Run 3 NE Pt 1	
2-Oct-07	11:38:31	7.88	11.27	177.48	6.38	212.99	96.55	Run 3 NE Pt 1	
2-Oct-07	11:39:01	8.03	11.13	176.30	6.95	213.88	98.02	Run 3 NE Pt 1	
2-Oct-07	11:39:31	7.95	11.18	174.36	7.19	214.98	97.91	Run 3 NE Pt 1	
2-Oct-07	11:40:01	8.04	11.12	173.50	7.14	218.61	100.29	Run 3 NE Pt 1	
2-Oct-07	11:40:31	7.92	11.22	173.50	5.68	216.66	98.47	Run 3 NE Pt 1	
2-Oct-07	11:41:01	7.99	11.15	172.59	4.98	213.45	97.58	Run 3 NE Pt 1	
Average:	**11:41:02**	**7.34**	**11.76**	**183.66**	**6.97**	**219.51**	**95.51**	**Run 3 NE**	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Maximum	11:41:02	8.04	12.09	189.50	14.50	247.16	105.22	Run 3 NE	
Minimum	11:41:02	6.95	11.12	172.59	4.20	199.72	87.04	Run 3 NE	
Std Dev	11:41:02	0.36	0.33	4.37	2.31	12.96	5.00	Run 3 NE	
2-Oct-07	11:49:30	7.03	11.97	180.84	6.79	239.96	102.11	Run 3 NW Pt 3	
2-Oct-07	11:50:00	7.22	11.87	181.49	8.69	242.10	104.40	Run 3 NW Pt 3	
2-Oct-07	11:50:33	7.01	11.96	183.56	7.82	246.74	104.83	Run 3 NW Pt 3	
2-Oct-07	11:51:00	7.21	11.88	182.93	10.47	254.35	109.62	Run 3 NW Pt 3	
2-Oct-07	11:51:30	7.24	11.79	183.89	9.22	249.40	107.72	Run 3 NW Pt 3	
2-Oct-07	11:52:00	7.04	11.99	183.28	6.34	248.48	105.74	Run 3 NW Pt 3	
2-Oct-07	11:52:30	7.10	11.94	183.33	11.03	246.86	105.52	Run 3 NW Pt 3	
2-Oct-07	11:53:00	7.09	11.95	181.94	11.02	235.08	100.45	Run 3 NW Pt 3	
2-Oct-07	11:53:30	7.25	11.82	184.99	6.96	224.01	96.83	Run 3 NW Pt 3	
2-Oct-07	11:54:00	7.30	11.76	185.06	4.63	213.91	92.83	Run 3 NW Pt 3	
2-Oct-07	11:54:30	7.24	11.81	185.94	4.09	204.56	88.36	Run 3 NW Pt 3	
2-Oct-07	11:55:00	7.27	11.77	185.34	4.23	202.51	87.69	Run 3 NW Pt 3	
2-Oct-07	11:55:30	7.12	11.90	185.29	5.12	196.75	84.24	Run 3 NW Pt 3	
2-Oct-07	11:56:00	7.21	11.84	184.92	7.27	196.27	84.60	Run 3 NW Pt 3	
2-Oct-07	11:56:30	7.17	11.87	185.57	6.49	199.85	85.85	Run 3 NW Pt 3	
2-Oct-07	11:57:00	7.10	11.93	185.86	8.97	204.51	87.42	Run 3 NW Pt 3	
2-Oct-07	11:57:30	7.24	11.81	185.59	10.85	210.84	91.07	Run 3 NW Pt 2	
2-Oct-07	11:58:00	7.12	11.87	186.68	7.15	215.29	92.20	Run 3 NW Pt 2	
2-Oct-07	11:58:30	7.14	11.91	186.89	12.11	221.80	95.13	Run 3 NW Pt 2	
2-Oct-07	11:59:00	7.18	11.86	187.35	15.80	224.23	96.44	Run 3 NW Pt 2	
2-Oct-07	11:59:30	7.14	11.91	187.75	15.03	227.57	97.58	Run 3 NW Pt 2	
2-Oct-07	12:00:00	7.15	11.87	187.10	13.20	229.18	98.32	Run 3 NW Pt 2	
2-Oct-07	12:00:30	7.16	11.89	187.30	11.86	232.53	99.83	Run 3 NW Pt 2	
2-Oct-07	12:01:00	7.27	11.77	187.76	8.90	235.82	102.05	Run 3 NW Pt 2	
2-Oct-07	12:01:30	7.08	11.92	187.87	6.20	232.93	99.42	Run 3 NW Pt 2	
2-Oct-07	12:02:00	7.07	11.97	187.07	7.32	237.31	101.23	Run 3 NW Pt 2	
2-Oct-07	12:02:30	7.21	11.84	186.95	8.05	237.03	102.18	Run 3 NW Pt 2	
2-Oct-07	12:03:00	7.28	11.76	186.73	5.69	234.79	101.71	Run 3 NW Pt 2	
2-Oct-07	12:03:30	7.16	11.85	187.77	5.36	232.61	99.88	Run 3 NW Pt 2	
2-Oct-07	12:04:00	6.99	12.01	186.70	9.22	231.26	98.06	Run 3 NW Pt 2	
2-Oct-07	12:04:30	7.16	11.89	187.62	22.54	229.08	98.40	Run 3 NW Pt 2	
2-Oct-07	12:05:00	7.20	11.81	188.63	16.74	221.06	95.23	Run 3 NW Pt 2	
2-Oct-07	12:05:30	7.21	11.84	188.99	8.05	218.01	93.93	Run 3 NW Pt 1	
2-Oct-07	12:06:00	7.20	11.82	188.09	6.25	217.13	93.50	Run 3 NW Pt 1	
2-Oct-07	12:06:30	7.30	11.92	187.81	6.39	220.65	95.87	Run 3 NW Pt 1	
2-Oct-07	12:07:00	9.29	10.11	186.69	7.01	212.80	108.15	Run 3 NW Pt 1	
2-Oct-07	12:07:30	9.35	9.90	185.74	5.34	193.63	98.92	Run 3 NW Pt 1	
2-Oct-07	12:08:00	9.35	9.89	173.70	4.63	191.84	97.99	Run 3 NW Pt 1	
2-Oct-07	12:08:30	9.37	9.85	163.01	4.68	190.71	97.61	Run 3 NW Pt 1	
2-Oct-07	12:09:00	9.25	9.97	158.42	6.88	190.90	96.68	Run 3 NW Pt 1	
2-Oct-07	12:09:30	9.26	9.95	157.54	10.32	192.75	97.74	Run 3 NW Pt 1	
2-Oct-07	12:10:00	9.33	9.93	157.56	8.65	193.53	98.67	Run 3 NW Pt 1	
2-Oct-07	12:10:30	9.38	9.83	157.55	6.96	191.64	98.14	Run 3 NW Pt 1	
2-Oct-07	12:11:00	9.15	10.04	157.29	15.57	192.32	96.57	Run 3 NW Pt 1	
2-Oct-07	12:11:30	9.35	9.93	155.93	25.76	191.23	97.68	Run 3 NW Pt 1	
2-Oct-07	12:12:00	9.45	9.79	155.50	14.48	182.67	94.13	Run 3 NW Pt 1	
2-Oct-07	12:12:30	9.28	9.92	156.44	9.54	183.49	93.20	Run 3 NW Pt 1	
2-Oct-07	12:13:00	9.37	9.88	155.48	22.39	186.13	95.28	Run 3 NW Pt 1	
Average:	**12:13:05**	**7.75**	**11.35**	**179.70**	**9.54**	**216.83**	**97.31**	**Run 3 NW**	
Maximum	12:13:05	9.45	12.01	188.99	25.76	254.35	109.62	Run 3 NW	
Minimum	12:13:05	6.99	9.79	155.48	4.09	182.67	84.24	Run 3 NW	
Std Dev	12:13:05	0.97	0.88	11.83	4.89	20.77	5.93	Run 3 NW	
2-Oct-07	12:23:30	7.01	12.00	185.13	26.44	239.42	101.68	Run 3 SW Pt 3	
2-Oct-07	12:24:00	7.07	11.95	184.92	30.32	242.02	103.26	Run 3 SW Pt 3	
2-Oct-07	12:24:30	7.09	11.89	185.63	17.38	243.16	103.89	Run 3 SW Pt 3	
2-Oct-07	12:25:00	7.09	11.92	184.83	9.78	243.75	104.15	Run 3 SW Pt 3	
2-Oct-07	12:25:30	7.18	11.83	183.94	7.47	243.29	104.64	Run 3 SW Pt 3	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	12:26:00	7.10	11.87	185.47	5.83	245.57	105.00	Run 3 SW Pt 3	
2-Oct-07	12:26:30	7.10	11.91	185.71	7.89	243.81	104.26	Run 3 SW Pt 3	
2-Oct-07	12:27:00	7.12	11.85	184.55	9.10	239.96	102.71	Run 3 SW Pt 3	
2-Oct-07	12:27:30	7.03	11.99	184.73	11.84	234.01	99.56	Run 3 SW Pt 3	
2-Oct-07	12:28:00	7.17	11.82	182.98	15.48	228.00	97.95	Run 3 SW Pt 3	
2-Oct-07	12:28:30	6.85	12.05	183.05	14.49	227.11	95.38	Run 3 SW Pt 3	
2-Oct-07	12:29:00	6.99	12.04	183.12	29.95	231.89	98.33	Run 3 SW Pt 3	
2-Oct-07	12:29:30	7.04	11.91	183.64	26.87	227.94	97.02	Run 3 SW Pt 3	
2-Oct-07	12:30:00	7.01	12.00	184.22	20.62	225.86	95.96	Run 3 SW Pt 3	
2-Oct-07	12:30:30	7.05	11.91	184.55	24.18	224.00	95.40	Run 3 SW Pt 3	
2-Oct-07	12:31:00	7.12	11.90	184.49	16.14	222.50	95.25	Run 3 SW Pt 3	
2-Oct-07	12:31:30	7.08	11.90	184.28	9.42	217.74	92.98	Run 3 SW Pt 2	
2-Oct-07	12:32:00	7.09	11.90	185.88	7.27	215.80	92.23	Run 3 SW Pt 2	
2-Oct-07	12:32:30	6.97	12.01	184.79	12.50	215.08	91.12	Run 3 SW Pt 2	
2-Oct-07	12:33:00	7.12	11.86	184.66	28.30	211.08	90.40	Run 3 SW Pt 2	
2-Oct-07	12:33:30	7.18	11.84	183.81	22.74	209.14	89.92	Run 3 SW Pt 2	
2-Oct-07	12:34:00	7.15	11.85	183.06	12.89	202.65	86.92	Run 3 SW Pt 2	
2-Oct-07	12:34:30	7.20	11.81	182.77	9.94	204.02	87.84	Run 3 SW Pt 2	
2-Oct-07	12:35:00	7.21	11.81	181.99	8.09	205.47	88.53	Run 3 SW Pt 2	
2-Oct-07	12:35:30	7.09	11.90	182.71	7.04	212.36	90.71	Run 3 SW Pt 2	
2-Oct-07	12:36:00	7.12	11.89	183.55	13.94	217.64	93.18	Run 3 SW Pt 2	
2-Oct-07	12:36:30	7.13	11.86	183.25	18.60	220.11	94.28	Run 3 SW Pt 2	
2-Oct-07	12:37:00	7.11	11.89	183.74	16.08	223.79	95.77	Run 3 SW Pt 2	
2-Oct-07	12:37:30	7.19	11.84	184.61	16.10	223.12	96.01	Run 3 SW Pt 2	
2-Oct-07	12:38:00	7.19	11.79	184.15	12.70	220.23	94.78	Run 3 SW Pt 2	
2-Oct-07	12:38:31	7.18	11.83	184.24	8.82	227.31	97.75	Run 3 SW Pt 2	
2-Oct-07	12:39:00	7.10	11.88	185.25	8.57	229.02	97.94	Run 3 SW Pt 2	
2-Oct-07	12:39:30	7.22	11.81	185.38	8.30	225.31	97.16	Run 3 SW Pt 2	
2-Oct-07	12:40:00	7.22	11.80	185.94	7.88	220.21	94.98	Run 3 SW Pt 2	
2-Oct-07	12:40:30	7.25	11.75	186.58	7.51	213.06	92.12	Run 3 SW Pt 1	
2-Oct-07	12:41:00	7.19	11.86	185.70	9.27	210.73	90.70	Run 3 SW Pt 1	
2-Oct-07	12:41:30	11.14	8.85	184.06	12.58	192.55	116.42	Run 3 SW Pt 1	
2-Oct-07	12:42:00	11.93	7.62	180.97	8.38	146.93	96.63	Run 3 SW Pt 1	
2-Oct-07	12:42:31	11.85	7.64	161.88	5.92	132.95	86.65	Run 3 SW Pt 1	
2-Oct-07	12:43:00	11.88	7.65	138.36	6.69	133.58	87.40	Run 3 SW Pt 1	
2-Oct-07	12:43:30	11.90	7.56	126.27	6.60	133.61	87.65	Run 3 SW Pt 1	
2-Oct-07	12:44:00	11.80	7.69	120.24	15.36	137.78	89.36	Run 3 SW Pt 1	
2-Oct-07	12:44:31	11.72	7.77	118.36	20.67	140.36	90.21	Run 3 SW Pt 1	
2-Oct-07	12:45:00	11.93	7.60	118.01	14.33	141.75	93.29	Run 3 SW Pt 1	
2-Oct-07	12:45:30	11.87	7.64	119.33	8.37	140.74	91.99	Run 3 SW Pt 1	
2-Oct-07	12:46:00	11.96	7.59	119.45	6.72	140.83	92.92	Run 3 SW Pt 1	
2-Oct-07	12:46:30	12.11	7.41	117.37	5.59	139.35	93.56	Run 3 SW Pt 1	
2-Oct-07	12:47:00	12.11	7.43	116.43	4.36	142.28	95.48	Run 3 SW Pt 1	
2-Oct-07	12:47:30	12.26	7.34	115.48	5.27	144.60	98.72	Run 3 SW Pt 1	
2-Oct-07	12:48:00	12.12	7.37	114.67	6.38	145.84	97.97	Run 3 SW Pt 1	
2-Oct-07	12:48:30	12.05	7.47	113.51	6.23	148.35	98.95	Run 3 SW Pt 1	
2-Oct-07	12:49:00	12.05	7.48	113.16	6.96	150.88	100.58	Run 3 SW Pt 1	
Average:	**12:49:02**	**8.59**	**10.58**	**167.59**	**12.70**	**199.97**	**95.72**	**Run 3 SW**	
Maximum	12:49:02	12.26	12.05	186.58	30.32	245.57	116.42	Run 3 SW	
Minimum	12:49:02	6.85	7.34	113.16	4.36	132.95	86.65	Run 3 SW	
Std Dev	12:49:02	2.25	1.99	28.54	7.04	39.42	5.81	Run 3 SW	

2-Oct-07	12:57:05	12.91	-0.11	1.51	0.27	0.37	0.27	Cal:13.0 O2
2-Oct-07	12:57:15	12.92	-0.11	1.50	0.27	0.52	0.39	Cal:13.0 O2
2-Oct-07	12:57:25	12.92	-0.11	1.50	0.26	0.57	0.42	Cal:13.0 O2
2-Oct-07	12:57:35	12.92	-0.11	1.54	0.16	0.71	0.53	Cal:13.0 O2
Average:	**12:57:35**	**12.92**	**-0.11**	**1.52**	**0.24**	**0.54**	**0.40**	**Cal:13.0 O2**
Gas Value:	12:57:35	13	0	0	0	0	#N/A	13.0 O2

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Diff%ofSpan	12:57:35	-0.38%	-0.63%	0.30%	0.25%	0.11%	#N/A		
2-Oct-07	13:03:24	0.07	8.73	244.54	0.06	0.52	0.15	Cal:244 Nox 9.02 CO2	
2-Oct-07	13:03:34	0.06	8.73	244.23	0.06	0.61	0.17	Cal:244 Nox 9.02 CO2	
2-Oct-07	13:03:45	0.06	8.73	244.26	0.06	0.39	0.11	Cal:244 Nox 9.02 CO2	
2-Oct-07	13:03:54	0.05	8.73	245.82	-0.04	0.44	0.12	Cal:244 Nox 9.02 CO2	
Average:	**13:03:54**	**0.06**	**8.73**	**244.71**	**0.04**	**0.49**	**0.14**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	13:03:54	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	13:03:54	#N/A	-1.62%	0.14%	#N/A	#N/A	#N/A		
2-Oct-07	13:07:45	0.05	-0.04	31.56	0.27	211.86	59.94	Cal:	
Average:	**13:07:48**	**0.05**	**-0.04**	**31.56**	**0.27**	**211.86**	**59.94**	**Cal:**	
Gas Value:	13:07:48								
Diff%ofSpan	13:07:48	0.21%	-0.22%	6.26%	0.28%	41.38%	#DIV/0!		
2-Oct-07	13:08:10	0.04	-0.06	22.91	0.26	212.18	60.00	Cal:219 SO2	
2-Oct-07	13:08:19	0.04	-0.06	20.28	0.26	212.06	59.98	Cal:219 SO2	
2-Oct-07	13:08:29	0.04	-0.06	18.70	0.26	212.42	60.09	Cal:219 SO2	
2-Oct-07	13:08:39	0.05	-0.07	17.70	0.26	212.09	60.01	Cal:219 SO2	
Average:	**13:08:40**	**0.04**	**-0.06**	**19.90**	**0.26**	**212.19**	**60.02**	**Cal:219 SO2**	
Gas Value:	13:08:40	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	13:08:40	#N/A	#N/A	#N/A	#N/A	-1.33%	#N/A		
2-Oct-07	13:12:31	0.51	-0.11	2.44	45.59	2.21	0.64	Cal:47.3 CO	
2-Oct-07	13:12:41	0.52	-0.11	2.45	45.61	1.90	0.55	Cal:47.3 CO	
2-Oct-07	13:12:51	0.52	-0.12	2.41	45.54	1.95	0.57	Cal:47.3 CO	
2-Oct-07	13:13:01	0.51	-0.12	2.44	45.51	1.18	0.34	Cal:47.3 CO	
Average:	**13:13:02**	**0.52**	**-0.11**	**2.43**	**45.56**	**1.81**	**0.52**	**Cal:47.3 CO**	
Gas Value:	13:13:02	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	13:13:02	2.31%	-0.65%	#N/A	-1.84%	#N/A	#N/A		
2-Oct-07	14:55:30	7.12	11.80	184.28	5.69	198.16	84.86	Run 4 SW Pt 3	
2-Oct-07	14:56:00	7.19	11.78	184.90	4.83	195.26	84.02	Run 4 SW Pt 3	
2-Oct-07	14:56:30	7.25	11.69	185.00	4.01	192.21	83.10	Run 4 SW Pt 3	
2-Oct-07	14:57:00	7.30	11.66	185.77	3.79	188.27	81.67	Run 4 SW Pt 3	
2-Oct-07	14:57:31	7.34	11.61	185.34	3.57	186.10	80.98	Run 4 SW Pt 3	
2-Oct-07	14:58:00	7.32	11.63	185.51	3.21	186.77	81.12	Run 4 SW Pt 3	
2-Oct-07	14:58:30	7.27	11.66	183.88	3.19	188.96	81.82	Run 4 SW Pt 3	
2-Oct-07	14:59:00	7.23	11.73	183.54	3.41	192.47	83.08	Run 4 SW Pt 3	
2-Oct-07	14:59:31	7.23	11.74	183.95	3.83	191.21	82.52	Run 4 SW Pt 3	
2-Oct-07	15:00:00	7.25	11.73	184.37	3.94	197.70	85.43	Run 4 SW Pt 3	
2-Oct-07	15:00:30	7.19	11.76	184.39	4.26	202.52	87.13	Run 4 SW Pt 3	
2-Oct-07	15:01:00	7.14	11.83	185.73	7.01	207.44	88.96	Run 4 SW Pt 3	
2-Oct-07	15:01:30	7.27	11.73	186.49	9.13	206.68	89.47	Run 4 SW Pt 3	
2-Oct-07	15:02:00	7.27	11.71	186.65	6.16	199.58	86.40	Run 4 SW Pt 3	
2-Oct-07	15:02:30	7.19	11.77	185.28	4.66	196.68	84.66	Run 4 SW Pt 3	
2-Oct-07	15:03:00	7.18	11.78	184.86	7.44	196.23	84.39	Run 4 SW Pt 3	
2-Oct-07	15:03:30	7.26	11.73	184.85	7.91	189.18	81.83	Run 4 SW Pt 2	
2-Oct-07	15:04:00	7.29	11.68	185.61	5.27	182.38	79.07	Run 4 SW Pt 2	
2-Oct-07	15:04:30	7.22	11.75	184.92	4.87	186.22	80.34	Run 4 SW Pt 2	
2-Oct-07	15:05:00	7.22	11.76	184.71	5.07	189.60	81.79	Run 4 SW Pt 2	
2-Oct-07	15:05:30	7.17	11.79	183.99	4.40	190.94	82.07	Run 4 SW Pt 2	
2-Oct-07	15:06:00	7.19	11.79	184.28	4.57	195.61	84.17	Run 4 SW Pt 2	
2-Oct-07	15:06:30	7.12	11.84	185.10	6.63	196.49	84.12	Run 4 SW Pt 2	
2-Oct-07	15:07:00	7.20	11.80	185.25	6.57	200.21	86.20	Run 4 SW Pt 2	
2-Oct-07	15:07:30	7.18	11.80	185.95	4.95	204.66	88.02	Run 4 SW Pt 2	
2-Oct-07	15:08:00	7.22	11.77	185.91	4.19	207.98	89.68	Run 4 SW Pt 2	
2-Oct-07	15:08:30	7.24	11.74	185.75	4.00	211.08	91.17	Run 4 SW Pt 2	
2-Oct-07	15:09:00	7.22	11.78	184.16	4.72	215.18	92.79	Run 4 SW Pt 2	
2-Oct-07	15:09:30	7.25	11.73	183.97	4.95	215.79	93.28	Run 4 SW Pt 2	
2-Oct-07	15:10:00	7.21	11.76	183.82	4.52	215.46	92.87	Run 4 SW Pt 2	
2-Oct-07	15:10:30	7.23	11.75	183.83	4.60	220.19	95.05	Run 4 SW Pt 2	
2-Oct-07	15:11:00	7.19	11.79	184.40	4.81	216.22	93.02	Run 4 SW Pt 2	
2-Oct-07	15:11:30	7.14	11.83	184.93	5.47	217.37	93.18	Run 4 SW Pt 1	
2-Oct-07	15:12:00	7.10	11.88	184.57	5.99	220.63	94.31	Run 4 SW Pt 1	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	15:12:30	9.69	9.93	184.82	7.25	212.45	112.00	Run 4 SW Pt 1	
2-Oct-07	15:13:00	10.24	9.02	184.46	9.11	182.50	100.98	Run 4 SW Pt 1	
2-Oct-07	15:13:30	10.36	8.93	173.15	8.57	173.37	97.02	Run 4 SW Pt 1	
2-Oct-07	15:14:00	10.44	8.83	156.73	6.51	166.91	94.15	Run 4 SW Pt 1	
2-Oct-07	15:14:30	10.44	8.81	147.21	4.81	161.61	91.13	Run 4 SW Pt 1	
2-Oct-07	15:15:00	10.29	8.94	142.52	6.63	161.17	89.63	Run 4 SW Pt 1	
2-Oct-07	15:15:30	10.40	8.89	141.09	6.65	157.76	88.66	Run 4 SW Pt 1	
2-Oct-07	15:16:01	10.46	8.81	141.41	5.66	151.91	85.82	Run 4 SW Pt 1	
2-Oct-07	15:16:30	10.50	8.76	142.62	6.55	148.59	84.27	Run 4 SW Pt 1	
2-Oct-07	15:17:00	10.53	8.75	140.58	11.55	146.79	83.56	Run 4 SW Pt 1	
2-Oct-07	15:17:30	10.54	8.74	138.72	19.30	143.66	81.80	Run 4 SW Pt 1	
2-Oct-07	15:18:00	10.45	8.82	137.26	18.36	141.95	80.12	Run 4 SW Pt 1	
2-Oct-07	15:18:30	10.56	8.72	136.33	12.79	142.18	81.09	Run 4 SW Pt 1	
2-Oct-07	15:19:00	10.55	8.73	136.32	9.47	141.32	80.56	Run 4 SW Pt 1	
2-Oct-07	15:19:30	10.52	8.75	136.56	6.69	141.81	80.60	Run 4 SW Pt 1	
2-Oct-07	15:20:01	10.60	8.72	137.95	7.00	139.96	80.15	Run 4 SW Pt 1	
Average:	**15:20:01**	**8.24**	**10.83**	**173.27**	**6.37**	**186.31**	**86.88**	**Run 4 SW**	
Maximum	15:20:01	10.60	11.88	186.65	19.30	220.63	112.00	Run 4 SW	
Minimum	15:20:01	7.10	8.72	136.32	3.19	139.96	79.07	Run 4 SW	
Std Dev	15:20:01	1.51	1.36	19.50	3.28	24.71	6.39	Run 4 SW	
2-Oct-07	15:28:36	7.15	11.80	179.77	7.36	192.82	82.74	Run 4 NW Pt 3	
2-Oct-07	15:29:06	7.17	11.84	179.84	7.67	196.59	84.47	Run 4 NW Pt 3	
2-Oct-07	15:29:36	7.19	11.80	180.12	8.35	196.76	84.67	Run 4 NW Pt 3	
2-Oct-07	15:30:06	7.18	11.81	180.14	7.34	198.02	85.15	Run 4 NW Pt 3	
2-Oct-07	15:30:36	7.24	11.77	180.92	6.58	201.51	87.06	Run 4 NW Pt 3	
2-Oct-07	15:31:06	7.25	11.73	179.92	5.26	201.76	87.20	Run 4 NW Pt 3	
2-Oct-07	15:31:36	7.23	11.76	178.77	5.88	205.41	88.63	Run 4 NW Pt 3	
2-Oct-07	15:32:06	7.23	11.76	178.08	10.55	206.68	89.22	Run 4 NW Pt 3	
2-Oct-07	15:32:36	7.23	11.77	178.71	9.81	209.73	90.51	Run 4 NW Pt 3	
2-Oct-07	15:33:06	7.26	11.74	179.83	7.91	213.44	92.35	Run 4 NW Pt 3	
2-Oct-07	15:33:36	7.13	11.82	178.88	9.18	217.65	93.26	Run 4 NW Pt 3	
2-Oct-07	15:34:06	7.16	11.83	179.35	11.77	222.41	95.51	Run 4 NW Pt 3	
2-Oct-07	15:34:36	7.23	11.78	178.83	16.54	222.70	96.12	Run 4 NW Pt 3	
2-Oct-07	15:35:06	7.24	11.74	180.08	11.78	221.52	95.66	Run 4 NW Pt 3	
2-Oct-07	15:35:36	7.23	11.77	179.84	6.62	224.22	96.75	Run 4 NW Pt 3	
2-Oct-07	15:36:06	7.27	11.72	178.47	5.32	225.66	97.70	Run 4 NW Pt 3	
2-Oct-07	15:36:36	7.24	11.75	178.43	5.53	223.13	96.36	Run 4 NW Pt 2	
2-Oct-07	15:37:06	7.22	11.77	177.79	7.22	222.17	95.80	Run 4 NW Pt 2	
2-Oct-07	15:37:36	7.21	11.77	178.06	9.22	219.56	94.62	Run 4 NW Pt 2	
2-Oct-07	15:38:06	7.22	11.77	177.65	7.37	215.53	92.94	Run 4 NW Pt 2	
2-Oct-07	15:38:36	7.22	11.76	177.40	6.40	210.73	90.91	Run 4 NW Pt 2	
2-Oct-07	15:39:06	7.27	11.72	177.66	5.64	200.23	86.66	Run 4 NW Pt 2	
2-Oct-07	15:39:36	7.27	11.73	177.95	4.98	188.75	81.71	Run 4 NW Pt 2	
2-Oct-07	15:40:06	7.22	11.76	176.66	6.04	184.64	79.66	Run 4 NW Pt 2	
2-Oct-07	15:40:36	7.19	11.80	176.94	7.84	184.98	79.59	Run 4 NW Pt 2	
2-Oct-07	15:41:06	7.13	11.86	176.90	10.03	186.61	79.98	Run 4 NW Pt 2	
2-Oct-07	15:41:36	7.13	11.86	176.93	15.68	186.24	79.81	Run 4 NW Pt 2	
2-Oct-07	15:42:06	7.19	11.81	176.88	16.21	186.07	80.08	Run 4 NW Pt 2	
2-Oct-07	15:42:37	7.10	11.86	177.79	13.38	186.74	79.86	Run 4 NW Pt 2	
2-Oct-07	15:43:06	7.13	11.86	177.44	11.97	189.21	81.08	Run 4 NW Pt 2	
2-Oct-07	15:43:36	7.15	11.84	176.70	8.27	190.81	81.85	Run 4 NW Pt 2	
2-Oct-07	15:44:06	7.15	11.84	176.35	7.60	191.15	82.00	Run 4 NW Pt 2	
2-Oct-07	15:44:37	7.17	11.82	176.29	9.00	191.79	82.44	Run 4 NW Pt 1	
2-Oct-07	15:45:06	7.17	11.81	175.90	10.65	191.10	82.09	Run 4 NW Pt 1	
2-Oct-07	15:45:36	7.10	11.87	176.26	8.37	190.62	81.52	Run 4 NW Pt 1	
2-Oct-07	15:46:06	7.16	11.86	177.03	7.87	193.29	82.99	Run 4 NW Pt 1	
2-Oct-07	15:46:37	7.17	11.81	176.84	8.89	194.26	83.46	Run 4 NW Pt 1	
2-Oct-07	15:47:06	7.11	11.87	177.05	8.09	196.52	84.06	Run 4 NW Pt 1	
2-Oct-07	15:47:36	7.07	11.90	177.66	16.40	200.42	85.52	Run 4 NW Pt 1	
2-Oct-07	15:48:06	7.13	11.88	175.94	25.61	203.71	87.26	Run 4 NW Pt 1	
2-Oct-07	15:48:36	7.18	11.81	176.78	20.92	201.88	86.80	Run 4 NW Pt 1	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
2-Oct-07	15:49:06	7.15	11.84	176.85	13.04	200.83	86.20	Run 4 NW Pt 1	
2-Oct-07	15:49:36	7.18	11.81	176.23	11.91	197.83	85.07	Run 4 NW Pt 1	
2-Oct-07	15:50:06	7.13	11.84	175.51	9.17	194.67	83.41	Run 4 NW Pt 1	
2-Oct-07	15:50:36	7.09	11.88	176.11	9.87	193.94	82.88	Run 4 NW Pt 1	
2-Oct-07	15:51:06	7.13	11.89	177.00	13.77	191.37	82.02	Run 4 NW Pt 1	
2-Oct-07	15:51:36	7.16	11.82	176.74	14.04	189.90	81.54	Run 4 NW Pt 1	
2-Oct-07	15:52:06	7.11	11.86	178.37	15.61	191.56	81.97	Run 4 NW Pt 1	
2-Oct-07	15:52:36	7.06	11.91	177.81	28.36	195.43	83.33	Run 4 NW Pt 1	
Average:	**15:52:49**	**7.18**	**11.81**	**177.83**	**10.47**	**200.87**	**86.38**	**Run 4 NW Pt 1**	
Maximum	15:52:49	7.27	11.91	180.92	28.36	225.66	97.70	Run 4 NW Pt 1	
Minimum	15:52:49	7.06	11.72	175.51	4.98	184.64	79.59	Run 4 NW Pt 1	
Std Dev	15:52:49	0.05	0.05	1.37	4.98	12.49	5.56	Run 4 NW Pt 1	
2-Oct-07	16:02:33	7.23	11.77	176.58	5.85	191.11	82.49	Run 4 NE Pt 3	
2-Oct-07	16:03:01	7.10	11.89	175.90	5.84	187.16	80.04	Run 4 NE Pt 3	
2-Oct-07	16:03:32	7.05	11.94	175.94	7.58	185.43	78.99	Run 4 NE Pt 3	
2-Oct-07	16:04:01	7.03	11.97	175.99	12.37	184.44	78.47	Run 4 NE Pt 3	
2-Oct-07	16:04:31	7.06	11.95	176.05	15.84	184.08	78.48	Run 4 NE Pt 3	
2-Oct-07	16:05:01	7.00	11.99	177.58	14.49	184.76	78.44	Run 4 NE Pt 3	
2-Oct-07	16:05:31	7.00	11.99	178.64	12.87	187.78	79.70	Run 4 NE Pt 3	
2-Oct-07	16:06:01	7.05	11.96	179.40	12.82	190.54	81.18	Run 4 NE Pt 3	
2-Oct-07	16:06:31	7.05	11.95	179.38	19.12	193.24	82.31	Run 4 NE Pt 3	
2-Oct-07	16:07:01	7.00	12.00	177.80	17.73	196.52	83.40	Run 4 NE Pt 3	
2-Oct-07	16:07:32	7.02	11.98	178.78	15.23	197.97	84.14	Run 4 NE Pt 3	
2-Oct-07	16:08:01	7.11	11.92	177.85	12.90	199.82	85.47	Run 4 NE Pt 3	
2-Oct-07	16:08:31	7.21	11.82	179.11	8.94	199.84	86.14	Run 4 NE Pt 3	
2-Oct-07	16:09:01	7.30	11.73	177.87	6.21	200.33	86.88	Run 4 NE Pt 3	
2-Oct-07	16:09:31	7.25	11.76	177.37	5.80	201.27	87.02	Run 4 NE Pt 3	
2-Oct-07	16:10:01	7.25	11.78	176.34	7.67	201.14	86.91	Run 4 NE Pt 3	
2-Oct-07	16:11:47	7.29	11.73	175.71	11.30	197.58	85.66	Run 4 NE Pt 2	
2-Oct-07	16:11:48	7.25	11.74	176.55	11.17	196.86	85.11	Run 4 NE Pt 2	
2-Oct-07	16:11:49	7.18	11.85	175.86	8.77	198.84	85.50	Run 4 NE Pt 2	
2-Oct-07	16:12:01	7.21	11.83	176.60	8.02	200.36	86.32	Run 4 NE Pt 2	
2-Oct-07	16:12:31	7.24	11.78	176.15	6.17	198.18	85.63	Run 4 NE Pt 2	
2-Oct-07	16:13:01	7.25	11.79	176.66	7.25	191.62	82.84	Run 4 NE Pt 2	
2-Oct-07	16:13:31	7.23	11.77	176.28	11.06	187.40	80.89	Run 4 NE Pt 2	
2-Oct-07	16:14:01	7.20	11.83	176.32	14.96	189.87	81.74	Run 4 NE Pt 2	
2-Oct-07	16:14:32	7.20	11.81	177.64	18.58	191.22	82.33	Run 4 NE Pt 2	
2-Oct-07	16:15:01	7.12	11.88	177.79	11.65	194.02	83.06	Run 4 NE Pt 2	
2-Oct-07	16:15:32	7.16	11.86	178.47	7.60	196.81	84.51	Run 4 NE Pt 2	
2-Oct-07	16:16:01	7.25	11.79	178.53	6.09	198.05	85.58	Run 4 NE Pt 2	
2-Oct-07	16:16:31	7.28	11.74	177.64	5.63	196.97	85.34	Run 4 NE Pt 2	
2-Oct-07	16:17:01	7.13	11.84	177.53	5.76	199.79	85.58	Run 4 NE Pt 2	
2-Oct-07	16:17:31	7.13	11.88	176.14	7.06	203.47	87.19	Run 4 NE Pt 2	
2-Oct-07	16:18:02	7.17	11.84	176.32	7.18	205.12	88.16	Run 4 NE Pt 2	
2-Oct-07	16:18:31	7.22	11.81	177.02	7.18	199.54	86.03	Run 4 NE Pt 1	
2-Oct-07	16:19:01	7.22	11.78	177.86	6.82	198.24	85.52	Run 4 NE Pt 1	
2-Oct-07	16:19:31	10.36	9.65	176.51	6.46	196.42	112.15	Run 4 NE Pt 1	
2-Oct-07	16:20:01	11.60	7.84	175.79	5.22	155.04	98.40	Run 4 NE Pt 1	
2-Oct-07	16:20:31	11.59	7.83	163.01	4.36	142.79	90.49	Run 4 NE Pt 1	
2-Oct-07	16:21:01	11.50	7.93	139.87	3.75	142.09	89.16	Run 4 NE Pt 1	
2-Oct-07	16:21:31	11.72	7.75	127.11	3.86	141.60	91.02	Run 4 NE Pt 1	
2-Oct-07	16:22:02	11.82	7.64	122.19	4.34	138.73	90.14	Run 4 NE Pt 1	
2-Oct-07	16:22:31	11.75	7.73	119.31	4.59	138.88	89.56	Run 4 NE Pt 1	
2-Oct-07	16:23:01	11.81	7.60	116.64	4.66	136.20	88.42	Run 4 NE Pt 1	
2-Oct-07	16:23:31	11.69	7.75	116.19	3.95	133.99	85.86	Run 4 NE Pt 1	
2-Oct-07	16:24:01	11.63	7.80	115.72	3.71	132.33	84.21	Run 4 NE Pt 1	
2-Oct-07	16:24:31	11.60	7.82	116.06	4.23	130.60	82.88	Run 4 NE Pt 1	
2-Oct-07	16:25:01	11.93	7.59	116.24	6.78	127.79	84.09	Run 4 NE Pt 1	
2-Oct-07	16:25:31	11.79	7.64	117.59	6.91	121.81	78.86	Run 4 NE Pt 1	
2-Oct-07	16:26:02	10.52	8.55	115.75	8.03	122.85	69.88	Run 4 NE Pt 1	
Average:	**16:26:03**	**8.43**	**10.71**	**163.83**	**8.63**	**178.97**	**85.05**	**Run 4 NE**	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Maximum	16:26:03	11.93	12.00	179.40	19.12	205.12	112.15	Run 4 NE	
Minimum	16:26:03	7.00	7.59	115.72	3.71	121.81	69.88	Run 4 NE	
Std Dev	16:26:03	2.02	1.82	24.36	4.22	27.46	5.94	Run 4 NE	
2-Oct-07	16:34:31	7.18	11.87	178.67	12.40	204.56	87.94	Run 4 SE Pt 3	
2-Oct-07	16:35:01	7.28	11.76	179.20	9.58	202.41	87.69	Run 4 SE Pt 3	
2-Oct-07	16:35:31	7.25	11.77	178.82	6.68	202.37	87.50	Run 4 SE Pt 3	
2-Oct-07	16:36:01	7.27	11.75	177.55	5.68	203.91	88.29	Run 4 SE Pt 3	
2-Oct-07	16:36:31	7.24	11.77	178.49	5.09	205.09	88.61	Run 4 SE Pt 3	
2-Oct-07	16:37:02	7.27	11.77	177.60	6.78	204.44	88.47	Run 4 SE Pt 3	
2-Oct-07	16:37:31	7.29	11.73	178.64	6.88	198.89	86.25	Run 4 SE Pt 3	
2-Oct-07	16:38:02	7.35	11.69	178.25	5.22	190.92	83.12	Run 4 SE Pt 3	
2-Oct-07	16:38:31	7.28	11.71	178.58	5.50	186.45	80.78	Run 4 SE Pt 3	
2-Oct-07	16:39:01	7.18	11.83	178.08	7.63	187.57	80.64	Run 4 SE Pt 3	
2-Oct-07	16:39:31	7.21	11.83	178.19	9.40	191.56	82.58	Run 4 SE Pt 3	
2-Oct-07	16:40:01	7.23	11.80	177.96	7.38	192.58	83.13	Run 4 SE Pt 3	
2-Oct-07	16:40:32	7.14	11.88	178.55	6.44	192.93	82.74	Run 4 SE Pt 3	
2-Oct-07	16:41:01	7.16	11.86	178.19	7.09	197.36	84.77	Run 4 SE Pt 3	
2-Oct-07	16:41:31	7.17	11.87	178.90	8.84	198.08	85.13	Run 4 SE Pt 3	
2-Oct-07	16:42:01	7.20	11.84	178.79	9.43	200.71	86.45	Run 4 SE Pt 3	
2-Oct-07	16:42:31	7.22	11.82	178.89	7.93	202.60	87.38	Run 4 SE Pt 2	
2-Oct-07	16:43:01	7.20	11.82	178.60	6.53	203.16	87.52	Run 4 SE Pt 2	
2-Oct-07	16:43:31	7.23	11.83	178.04	5.96	203.47	87.80	Run 4 SE Pt 2	
2-Oct-07	16:44:01	7.25	11.79	178.33	5.57	202.67	87.59	Run 4 SE Pt 2	
2-Oct-07	16:44:32	7.22	11.82	179.91	6.01	202.42	87.29	Run 4 SE Pt 2	
2-Oct-07	16:45:01	7.19	11.83	178.93	7.00	201.49	86.73	Run 4 SE Pt 2	
2-Oct-07	16:45:31	7.22	11.82	178.26	7.44	199.70	86.13	Run 4 SE Pt 2	
2-Oct-07	16:46:01	7.23	11.81	178.31	7.37	194.95	84.16	Run 4 SE Pt 2	
2-Oct-07	16:46:31	7.10	11.89	178.90	8.38	190.64	81.51	Run 4 SE Pt 2	
2-Oct-07	16:47:01	7.08	11.95	178.90	10.50	190.50	81.35	Run 4 SE Pt 2	
2-Oct-07	16:47:31	7.14	11.89	178.80	8.99	191.41	82.07	Run 4 SE Pt 2	
2-Oct-07	16:48:01	7.18	11.85	179.00	8.62	192.33	82.70	Run 4 SE Pt 2	
2-Oct-07	16:48:32	7.19	11.83	178.73	7.84	192.91	83.01	Run 4 SE Pt 2	
2-Oct-07	16:49:01	7.13	11.89	177.52	6.39	193.70	82.98	Run 4 SE Pt 2	
2-Oct-07	16:49:31	7.19	11.86	178.07	6.58	191.17	82.26	Run 4 SE Pt 2	
2-Oct-07	16:50:01	7.22	11.82	177.88	8.49	185.77	80.13	Run 4 SE Pt 2	
2-Oct-07	16:50:31	7.21	11.81	178.80	9.51	181.58	78.27	Run 4 SE Pt 1	
2-Oct-07	16:51:01	7.09	11.92	178.91	7.57	178.89	76.43	Run 4 SE Pt 1	
2-Oct-07	16:51:31	7.01	11.99	180.20	8.89	175.60	74.58	Run 4 SE Pt 1	
2-Oct-07	16:52:01	7.02	12.00	179.56	13.42	174.85	74.30	Run 4 SE Pt 1	
2-Oct-07	16:52:32	7.02	12.00	180.15	14.88	175.15	74.45	Run 4 SE Pt 1	
2-Oct-07	16:53:01	7.09	11.94	180.69	17.58	175.91	75.14	Run 4 SE Pt 1	
2-Oct-07	16:53:31	7.11	11.91	179.55	13.64	177.60	75.97	Run 4 SE Pt 1	
2-Oct-07	16:54:01	7.11	11.90	179.98	11.91	180.73	77.35	Run 4 SE Pt 1	
2-Oct-07	16:54:31	7.15	11.88	179.87	12.18	181.28	77.78	Run 4 SE Pt 1	
2-Oct-07	16:55:01	7.22	11.82	178.99	10.44	183.69	79.22	Run 4 SE Pt 1	
2-Oct-07	16:55:32	7.19	11.83	178.92	9.35	186.33	80.17	Run 4 SE Pt 1	
2-Oct-07	16:56:01	7.14	11.89	178.91	7.99	190.43	81.68	Run 4 SE Pt 1	
2-Oct-07	16:56:32	7.21	11.82	178.17	6.86	192.93	83.17	Run 4 SE Pt 1	
2-Oct-07	16:57:01	7.23	11.80	178.85	6.85	194.44	83.92	Run 4 SE Pt 1	
2-Oct-07	16:57:31	7.21	11.82	178.78	7.52	197.05	84.94	Run 4 SE Pt 1	
2-Oct-07	16:58:01	7.26	11.78	177.65	8.98	197.86	85.58	Run 4 SE Pt 1	
Average:	**16:58:04**	**7.19**	**11.84**	**178.74**	**8.48**	**192.56**	**82.87**	**Run 4 SE**	
Maximum	16:58:04	7.35	12.00	180.69	17.58	205.09	88.61	Run 4 SE	
Minimum	16:58:04	7.01	11.69	177.52	5.09	174.85	74.30	Run 4 SE	
Std Dev	16:58:04	0.07	0.07	0.72	2.65	9.08	4.20	Run 4 SE	
2-Oct-07	17:03:19	0.06	-0.04	7.59	46.12	1.34	0.38	Cal:47.3 CO	
2-Oct-07	17:03:29	0.07	-0.04	5.87	46.12	1.14	0.32	Cal:47.3 CO	
2-Oct-07	17:03:40	0.06	-0.05	4.72	46.05	1.06	0.30	Cal:47.3 CO	
2-Oct-07	17:03:49	0.06	-0.05	4.54	46.08	0.80	0.23	Cal:47.3 CO	
Average:	**17:03:50**	**0.06**	**-0.05**	**5.68**	**46.09**	**1.09**	**0.31**	**Cal:47.3 CO**	

Source Testing And Consulting Services, Inc. Lakeland Utilities
Instrumental Reference Method On-Line Data Lakeland Utilities Unit 3

	Parameter	O2	CO2	Nox	CO	SO2	0.00	Comments	Comment2
	Units	%V,d	%V,d	ppmVd	ppmVd	ppmVd	0.00		
Gas Value:	17:03:50	0	0	#N/A	47.3	#N/A	#N/A	47.3 CO	
Diff%ofSpan	17:03:50	0.28%	-0.26%	#N/A	-1.28%	#N/A	#N/A		
2-Oct-07	17:07:40	0.03	-0.12	12.30	0.07	206.38	58.34	Cal:219 SO2	
2-Oct-07	17:07:50	0.03	-0.12	12.51	0.14	208.50	58.95	Cal:219 SO2	
2-Oct-07	17:08:00	0.03	-0.12	12.58	0.10	208.59	58.96	Cal:219 SO2	
2-Oct-07	17:08:11	0.03	-0.13	12.51	0.07	209.28	59.17	Cal:219 SO2	
Average:	**17:08:11**	**0.03**	**-0.12**	**12.48**	**0.09**	**208.19**	**58.86**	**Cal:219 SO2**	
Gas Value:	17:08:11	#N/A	#N/A	#N/A	#N/A	219	#N/A	219 SO2	
Diff%ofSpan	17:08:11	#N/A	#N/A	#N/A	#N/A	-2.11%	#N/A		
2-Oct-07	17:14:03	0.03	8.77	246.71	-0.13	1.55	0.44	Cal:244 Nox 9.02 CO2	
2-Oct-07	17:14:13	0.02	8.78	247.42	-0.13	1.49	0.42	Cal:244 Nox 9.02 CO2	
2-Oct-07	17:14:24	0.02	8.77	247.48	-0.13	1.74	0.49	Cal:244 Nox 9.02 CO2	
2-Oct-07	17:14:33	0.01	8.77	247.36	-0.13	1.48	0.42	Cal:244 Nox 9.02 CO2	
Average:	**17:14:34**	**0.02**	**8.77**	**247.24**	**-0.13**	**1.56**	**0.44**	**Cal:244 Nox 9.02 CO2**	
Gas Value:	17:14:34	#N/A	9.02	244	#N/A	#N/A	#N/A	244 Nox 9.02 CO2	
Diff%ofSpan	17:14:34	#N/A	-1.40%	0.64%	#N/A	#N/A	#N/A		
2-Oct-07	17:21:41	12.80	-0.10	1.08	0.06	0.29	0.21	Cal:13.0 O2	
2-Oct-07	17:21:51	12.80	-0.10	1.09	-0.01	0.29	0.21	Cal:13.0 O2	
2-Oct-07	17:22:02	12.74	-0.10	1.26	-0.03	0.33	0.24	Cal:13.0 O2	
2-Oct-07	17:22:11	12.73	-0.10	1.43	0.06	0.49	0.35	Cal:13.0 O2	
Average:	**17:22:12**	**12.77**	**-0.10**	**1.22**	**0.02**	**0.35**	**0.25**	**Cal:13.0 O2**	
Gas Value:	17:22:12	13	0	0	0	0	#N/A	13.0 O2	
Diff%ofSpan	17:22:12	-1.04%	-0.57%	0.24%	0.02%	0.07%	#N/A		

Lakeland Electric Unit 3
RA Run Data Sheet
Run # pretest

Date 10/2/07

Port	Point	Start	Stop
	3		
	2		
	1		
	3		
	2		
	1		
	3		
	2		
	1		
	3		
	2		
	1		

Test Results

Port	O2	CO2	NOx	CO	SO2
Average					

Post-Run Calibration Check

Bias

Zero	0.05	-.19	0.35	-0.04	0.67
QC	12.97	8.88	242.71	46.81	213.23

direct

Zero	0.05	-0.19	0.29	0.03	0.23
QC	13.06	8.90	249.98	47.19	218.19

Lakeland Electric Unit 3
RA Run Data Sheet
Run # 2

Date 10/3/07

Port	Point	Start	Stop
SW	3	7:46	~~8:10~~
~~NW~~	2		
	1		8:10 ~~8:26~~
NW	3	8:18	
	2		
	1		8:41
NE	3	8:50	
	2		
	1		9:14
SE	3	9:22	
	2		
	1		9:46

Test Results

Port	O2	CO2	NOx	CO	SO2
SW	~~7~~ 8.64	11.51	178.22	8.62	211.98
NW	7.28	11.82	182.84	8.91	225.90
NE	7.84	11.37	~~179~~ 178.55	9.20	213.97
SE	7.26	11.93	186.19	11.17	222.82
Average	7.51	11.66	181.45	9.45	218.67

Post-Run Calibration Check

Zero	0.04	-0.14	0.23	0.42	0.74
QC	12.45	8.86	249.93	45.63	214.75

Lakeland Electric Unit 3
RA Run Data Sheet
Run # 3

Date 10/2/07

Port	Point	Start	Stop
SE	3	10:35	
	2		
	1		10:59
NE	3	11:12	
	2		
	1		11:41
NW	3	11:49	
	2		
	1		12:13
SW	3	12:23	
	2		
	1		12:49

Test Results

Port	O2	CO2	NOx	CO	SO2
SE	7.21	11.89	197.60	10.60	216.89
NE	7.34	11.76	187.66	6.97	219.51
NW	7.75	11.35	179.70	9.54	216.83
SW	8.59	10.59	167.59	12.70	199.97
Average	7.72	11.40	179.64	9.95	213.23

Post-Run Calibration Check

Zero	0.06	-0.11	1.52	0.24	0.54
QC	12.92	8.73	244.71	45.56	212.19

Lakeland Electric Unit 3
RA Run Data Sheet
Run # 4

Date 10/2/07

Port	Point	Start	Stop
SW	3	14:55	
	2		
	1		15:20
NW	3	15:28	
	2		
	1		15:52
NE	3	16:02	
	2		
	1		16:26
SE	3	16:34	
	2		
	1		16:58

Test Results

Port	O2	CO2	NOx	CO	SO2
SW	8.24	10.91	173.27	6.37	186.51
NW	7.18	11.81	177.83	10.47	200.87
NE	8.43	10.71	163.82	9.63	178.97
SE	7.19	11.84	178.74	8.48	192.56
Average	7.76	11.30	173.42	8.47	189.68

Post-Run Calibration Check

Zero	0.02	-0.10	1.22	0.02	0.35
QC	12.77	8.77	247.24	46.09	208.19

Best Available Copy

STACS ISOKINETIC SAMPLING FIELD DATA SHEET

Facility:	LAKELAND	Meter #:	A5	Baro. Press:	29.77
Unit:	#3	DH@:	1.767	Ambient Temp:	69
Location:	STACK	DGM Factor:	.9967	Nozzle Dia:	NA
Test Type:	MOISTURE	Pitot #:	[illegible]	Static P:	NA
Run #:	1	Pitot Coef:	NA	Stack Dimensions:	18'
Condition:	FULL LOAD			Stack Height:	~225
Operator(s):	[illegible]	K-Factor:	NA	Init. Leak Check:	[illegible] cfm@ 11" Hg
Date:	10-1-07	Filter#:	NA	Final Leak Check:	.004 cfm@ 6" Hg

Page #: | Pitot LC: NA

Traverse Point Number	Time	Gas Meter Reading Vm(ft3)	Velocity Head ("H2O)	Orifice Press. ("H2O)	Stack Temp (F)	Probe Temp (F)	Filter Temp (F)	Impinger Temp (F)	Dry Gas Meter Temp. Inlet (F)	Dry Gas Meter Temp. Outlet (F)	Vacuum ("Hg)
	2001	23.968									
SE 5	2006	27.0	NA	1.76	148	NA	NA	55	71	NA	2.5
	2011	31.86			146			52	72		2.5
	2016	35.36			148			52	72		2.5
	2021	39.0			147			51	73		2.5
	2026	43.4			146			51	73		2.5
	2031	47.			147			51	73		2.5
	2036				147			51	73		2.5
	2041	52.826			148			51	75		3.0
* Avg	R2	28.858 *			147.1 *				72.8 *		
	0829	53.149			*						
	0834				150			46	73		2
	0839	60.94			149			51	74		2
	0844	64.74			149			50	74		2
	0849	68.61			149			51	74		2
	0854	72.31			149			53	76		2
	0859	76.13			148			54	77		2
	0904	79.33			149			58	78		2
	0909	82.97			149			59	79		2
* Avg		29.822 *			148.8 *				75.6 *		
	1126	83.169									
	1131	86.84			150			60	88		2
	1136	90.62			152			55	83		2
	1141				152			56	82		2
	1146	101.26			151			57	83		2
	1151	104.9			151			59	83		2
	1156	108.52			152			60	83		2
	1201	110.8			152			60	86		2
	1206	112.044			152			60	86		2
* Avg		28.878			151.5 *				83.9 *		
	1538	12.157									
	1543	15.8			149			64	90		2
	1548	19.79			149			57	91		2
	1553	23.24			149			58	91		2
	1558	26.5			149			56	91		2
	1603	30.6			149			58	92		2
	1608	34.27			150			58	93		2
	1613	37.77			150			57	93		2
	1618	41.314			150			57	93		2
Avg/Tot *		29.157	*		149.[illegible] *				91.75 *		

Impinger	1	2	3	4	5	Total
Final						
Initial						
Total						

ORSAT/CEM	1	2	3	4
O2				
CO2				

Traverse Point %'s
6 Point (4.4) (14.6) (29.6) (70.4) (85.4) (95.6)
12 Point (2.1)(6.7)(11.8)(17.7)(25.0)(35.6)(64.4)(75.0)(82.3)(88.2)(93.3)(97.9)

Note. Nearest upstream disturbance or exit must be 2 duct diameters away and nearest downstream disturbance must be at least 8 diameters away to use 6 points per traverse.

APPENDIX C
CALIBRATION AND CERTIFICATION DATA

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-109350	
NSG PO#	6010451	Certification Date:	04/12/07	
Customer PO#		Expiration Date:	04/12/10	
Cylinder #	CC109862	Pressure, psig*	1700	CGA 590
ANALYTICAL INFORMATION		Product Code:	781381	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Oxygen	22.4%	+/-1%
Carbon Dioxide	17.68%	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 2659a)	CC46336	20.03 %	O2/N2
GMIS (Traceable to SRM # 1675b)	CC75258	14.07 %	CO2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
Horiba MPA - 510 O2	41499150042	04/05/07	Paramagnetic
Horiba VIA-510 CO2	42399380022	04/05/07	Non-dispersive Infrared

Analyst: NS Nathan Stairs

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, *National Specialty Gases shall have no liability in excess of established charge for* this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-110448	
NSG PO#	6051594	Certification Date:	05/25/07	
Customer PO#		Expiration Date:	05/25/10	
Cylinder #	CC114566	Pressure, psig*	1400	CGA 590
ANALYTICAL INFORMATION		Product Code:	781381	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Oxygen	13.03 %	+/-1%
Carbon Dioxide	10.02 %	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 1674b)	*CC2892*	*9.767 %*	*CO2/N2*
GMIS (Traceable to SRM # 2659a)	CC46336	20.03 %	O2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
Horiba MPA - 510 O2	41499150042	05/04/07	Paramagnetic
Horiba VIA-510 CO2	42399380022	05/03/07	Non-dispersive Infrared

Analyst: Nicole Ishak

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-107914	
NSG PO#	5820478	Certification Date:	01/09/07	
Customer PO#		Expiration Date:	01/09/10	
Cylinder #	CC29903	Pressure, psig*	2000	CGA 350
ANALYTICAL INFORMATION		Product Code:	780524	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Carbon Monoxide	47.3 ppm	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 1678c)	CC160208	51.03 ppm	CO/N2

INSTRUMENTATION

Instrument/Model/Serial #	Last Date Calibrated	Analytical Method
Rosemount 880A CO 2000172	12/28/06	Non-dispersive Infrared

Analyst: BPM Brian P. Moore

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-109423	
NSG PO#	5948709	Certification Date:	03/26/07	
Customer PO#		Expiration Date:	03/26/09	
Cylinder #	CC21483	Pressure, psig*	2000	CGA 660
ANALYTICAL INFORMATION		Product Code:	781381	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Nitric Oxide	98.2 ppm	+/-1%
Nitrogen Dioxide	0.4 ppm	
Carbon Monoxide	94.3 ppm	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 1679C)	CC117163	99.97 ppm	CO/N2
GMIS (Traceable to SRM # 1684B)	SG9115373BAL	101 ppm	NO/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
TECO 42CHL NOX	CHL-63965-341	03/19/07	Chemiluminescence
Rosemount 880A CO	2000172	03/01/07	Non-dispersive Infrared

Analyst: Nicole Ishak

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-107324	
NSG PO#:		Certification Date:	11/27/06	
Customer PO#:		Expiration Date:	11/27/08	
Cylinder #	CC129661	Pressure, psig*	2000	CGA 660
ANALYTICAL INFORMATION		Product Code:	782263	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Sulfur Dioxide	219 PPM	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 1661a)	CC50272	505.7 ppm	SO2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
KVB Analect	EN-844	11/10/06	Fourier Transform Infrared

Analyst: NS Nathan Stairs

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NSG 020149L

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-111844	
NSG PO#	6197515	Certification Date:	08/22/07	
Customer PO#		Expiration Date:	08/22/10	
Cylinder #	CC117590	Pressure, psig*	2000	CGA 660
ANALYTICAL INFORMATION		Product Code:	782264	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Sulfur Dioxide	512 PPM	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
NTRM(Batch # 060611)	CC206089	475 ppm	SO2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
KVB Analect	EN-844A	08/13/07	Fourier Transform Infrared

Analyst: Jesse Powell

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NSG 020149L

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-111037	
NSG PO#	6123423	Certification Date:	07/03/07	
Customer PO#		Expiration Date:	07/03/09	
Cylinder #	CC211124	Pressure, psig*	2000	CGA 660
ANALYTICAL INFORMATION		Product Code:	782405	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Nitric Oxide	244 PPM	+/-1%
Nitrogen Dioxide	<1.0 PPM	
Carbon Dioxide	9.02 %	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to NTRM # 81685)	ALM011140	300.4 ppm	NO/N2
GMIS (Traceable to SRM # 1674b)	CC2892	9.767 %	CO2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
KVB Analect	EN-844A	06/14/07	Fourier Transform Infrared

Analyst: Jesse Powell

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NSG 020149L

NATIONAL SPECIALTY GASES

P. O. Box 12013
Research Triangle Park, N.C. 27709
Phone 919/544-3772

CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS MIXTURE

Customer:	National Welders, Raleigh, NC	Reference #	88-108986	
NSG PO#	5914076	Certification Date:	03/02/07	
Customer PO#		Expiration Date:	03/02/09	
Cylinder #	CC109641	Pressure, psig*	2000	CGA 660
ANALYTICAL INFORMATION		Product Code:	782406	

METHOD: This standard was analyzed according to EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards: Procedure G1 (September 1997)

ANALYZED CYLINDER

Components	Certified Concentration	Analytical Accuracy**
Nitric Oxide	504 PPM	+/-1%
Nitrogen Dioxide	<1.0 PPM	
Carbon Dioxide	9.18%	+/-1%
Balance - Nitrogen		

REFERENCE STANDARD

Type/SRM Sample #	Cylinder #	Concentration	
GMIS (Traceable to SRM # 2735)	CC50573	509.1 ppm	NO/N2
GMIS (Traceable to SRM # 1675b)	CC117896	14.08 %	CO2/N2

INSTRUMENTATION

Instrument/Model/Serial #		Last Date Calibrated	Analytical Method
KVB Analect	EN-844	02/09/07	Fourier Transform Infrared

Analyst: Nathan Stairs

This report states accurately the results of the investigation made upon the material submitted to the analytical laboratory. Every effort has been made to determine objectively the information requested. However, in connection with this report, National Specialty Gases shall have no liability in excess of established charge for this service. Assayed at National Specialty Gases, 630 United Drive, Durham, NC 27713 (919) 544-3772

*Do not use this standard when cylinder pressure is below 150 psig.

**Analytical accuracy includes typical known error sources which, at least, include precision of the analytical instrument.

NSG 020149L

Site: **Lakeland Electric McIntosh Plant**
Unit: **Unit 3**
Reference Method Calibration Error - Linearity
Date: **10/1/2007**

Linearity (Calibration Error)		Analyzer Span	Expected Value	Analyzer Response	Difference	Difference % of Span	Allowable Difference
CO2, vol % dry	Zero	17.68	0.00	-0.19	-0.19	-1.07%	+/- 2%
	Mid	17.67	9.02	8.90	-0.12	-0.68%	+/- 2%
	Span	17.68	17.68	17.77	0.09	0.51%	+/- 2%
NOx, ppmv	Zero	504	0.0	1.56	1.6	0.31%	+/- 2%
	Mid	504	244.0	249.08	5.1	1.01%	+/- 2%
	Span	504	504.0	511.16	7.2	1.42%	+/- 2%
CO, ppmv	Zero	94.3	0.0	-0.37	-0.4	-0.39%	+/- 2%
	Mid	94.3	47.3	47.46	0.2	0.17%	+/- 2%
	Span	94.3	94.3	94.74	0.4	0.47%	+/- 2%

Site: **Lakeland Electric McIntosh Plant**
Unit: **Unit 3**
Reference Method Calibration Error - Linearity
Date: **10/2/2007**

Linearity (Calibration Error)		Analyzer Span	Expected Value	Analyzer Response	Difference	Difference % of Span	Allowable Difference
CO2, vol % dry	Zero	17.68	0.00	-0.19	-0.19	-1.07%	+/- 2%
	Mid	17.67	9.02	8.88	-0.14	-0.79%	+/- 2%
	Span	17.68	17.68	17.79	0.11	0.62%	+/- 2%
NOx, ppmv	Zero	504	0.0	0.3	0.3	0.06%	+/- 2%
	Mid	504	244.0	249.9	5.9	1.17%	+/- 2%
	Span	504	504.0	506.4	2.4	0.48%	+/- 2%
CO, ppmv	Zero	94.3	0.0	0.03	0.0	0.03%	+/- 2%
	Mid	94.3	47.3	47.2	-0.1	-0.12%	+/- 2%
	Span	94.3	94.3	94.76	0.5	0.49%	+/- 2%

Source Testing And Consulting Services
Meter Box Calibration

Calibration Date: 1/17/2007
Meter Box: A5
Technician: MAD

Orifice ID	Y Calibration	Delta H @ Cal.	Vac
73	pass	pass	
40	pass	pass	
48	pass	pass	
55	pass	pass	
63	pass	pass	

PART 1: Orifice Calibration

Calibration Orifice Set: D1 Critical Vacuum: 13.9
Barometric Pressure (in. Hg): 29.920

Collected Data

Orifice ID	Run #	Delta H	Initial Meter Volume (cu ft)	Final Meter Volume (cu ft)	Init Meter Temp (F)	Final Meter Temp (F)	Init Amb Temp (F)	Final Amb Temp (F)	Run Time min|sec		K Factor	Vac
73	1	3.60	35.111	43.638	66.00	67.00	62.00	61.00	8	0	0.8150	
73	2	3.60	43.747	51.239	67.00	68.00	61.00	62.00	7	0	0.8150	
40	1	0.30	51.239	61.218	68.00	67.00	62.00	62.00	32	0	0.2396	
40	2	0.30	61.218	69.316	66.00	66.00	62.00	62.00	26	0	0.2396	
48	1	0.64	69.316	77.927	66.00	66.00	65.00	63.00	19	0	0.3485	
48	2	0.64	77.927	88.374	66.00	66.00	63.00	63.00	23	0	0.3485	
55	1	1.10	88.374	102.163	66.00	66.00	65.00	66.00	23	0	0.4606	
55	2	1.10	102.163	110.555	66.00	66.00	66.00	67.00	14	0	0.4606	
63	1	1.90	110.555	119.017	66.00	67.00	67.00	68.00	11	0	0.5945	
63	2	1.90	119.017	127.586	67.00	68.00	68.00	67.00	11	0	0.59	

Calculated Data

Orifice ID	Run #	Meter Volume (cu ft)	Meter Volume (std cu ft)	Corrected Meter Volume (std cu ft)	Ave Meter Temp (F)	Ave Amb Temp (F)	Y	Delta H @
73	1	8.527	8.62350	8.54244	66.5	61.5	0.9906	1.8127
73	2	7.492	7.56242	7.47464	67.5	61.5	0.9884	1.8092
	AVE						0.9895	1.8110
40	1	9.979	9.99182	10.04068	67.5	62	1.0049	1.7182
40	2	8.098	8.13153	8.15805	66	62	1.0033	1.7231
	AVE						1.0041	1.7206
48	1	8.611	8.65387	8.65471	66	64	1.0001	1.7471
48	2	10.447	10.49901	10.48676	66	63	0.9988	1.7437
	AVE						0.9995	1.7454
55	1	13.789	13.87330	13.82697	66	65.5	0.9967	1.7278
55	2	8.392	8.44330	8.40842	66	66.5	0.9959	1.7311
	AVE						0.9963	1.7295
63	1	8.462	8.52232	8.51912	66.5	67.5	0.9996	1.8036
63	2	8.569	8.61372	8.51912	67.5	67.5	0.9890	1.8002
	AVE						0.9943	1.8019
					Average for All Runs		0.9967	1.7617

Source Testing And Consulting Services
Meter Box Calibration

Calibration Date: 1/17/2007
Meter Box: A5
Technician: MAD

PART 2: Thermocouple Calibration

T/C Calibrator Make: Tegam T/C Calibrator Model: 840A

Calibrator Output (F)	Meter Reading (F)	Error (F)	Allowable Error (F)	Result
0.0	0	0	9.24	pass
32.0	32	0	9.88	pass
70.0	72	2	10.64	pass
100.0	102	2	11.24	pass
200.0	201	1	13.24	pass
500.0	498	-2	19.24	pass
1200.0	1197	-3	33.24	pass
1995.0	1990	-5	49.24	pass

Type S Pitot Tube Inspection Data Form

Source Testing and Consulting Services, Inc
1100 Purple Glory Drive
Apex, NC 27502
PH(919)-367-2200/FAX(919)-367-2222

Pitot Tube I.D. #	PO41	**Date**	07-Feb-07
Location	Shop	**Tech.**	MAD

Quick Connects Attached & Leak Free? y
Pitot Tube Assembly Level? y

Parameter	Value	Acceptance Criteria	Results	Meets Criteria?
α_1 =	1 °	α_1 < 10 °	1 °	TRUE
α_2 =	1 °	α_2 < 10 °	1 °	TRUE
β_1 =	2 °	β_1 < 5 °	2 °	TRUE
β_2 =	2 °	β_2 < 5 °	2 °	TRUE
γ =	1 °			
θ =	1 °			
A =	0.972 "			
z = A sin γ =	0.017 "	z < .125 in.	0.017 "	TRUE
w = A sin θ =	0.017 "	w < 0.03125 in.	0.017 "	TRUE
P_A =	0.486 "	1.05 Dt < P_A < 1.5 Dt	0.486 "	TRUE
P_b =	0.486 "	1.05 Dt < P_b < 1.5 Dt	0.486 "	TRUE
D_t =	0.375 "	0.18750" <= Dt <= 0.3750"	0.375 "	TRUE
		P_A = P_b +/- 0.0630"	0.000 "	TRUE

Pitot Tube Acceptable ?..... TRUE

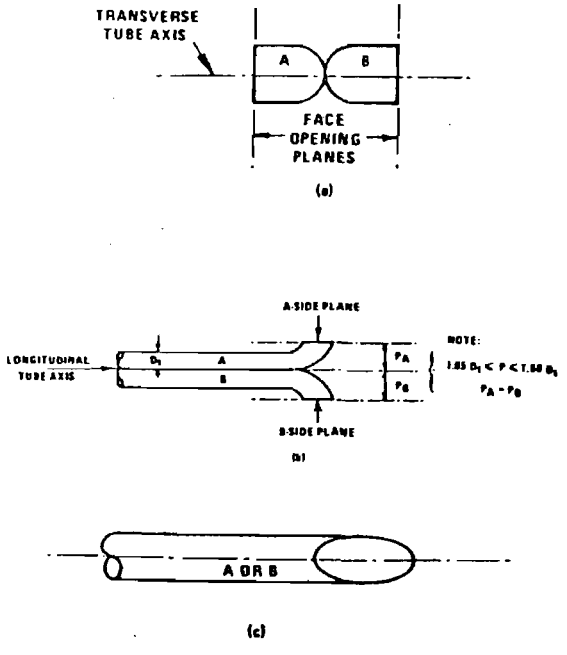

Figure 2-2. Properly constructed Type S pitot tubes, shown in: (a) end view; face opening planes perpendicular to transverse axis; (b) top view; face opening planes parallel to longitudinal axis; (c) side view; both legs of equal length and centerlines coincident, when viewed from both sides. Baseline coefficient values of 0.84 may be assigned to pitot tubes constructed this way.

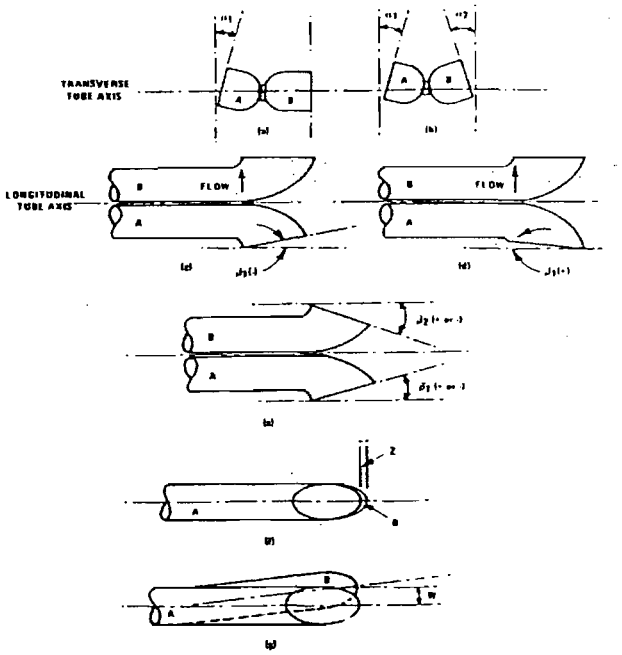

Figure 2-3. Types of face-opening misalignment that can result from field use or improper construction of Type S pitot tubes. These will not affect the baseline value of Cp(s) so long as α_1 and α_2 10°, β_1 and β_2 5°, z 0.32 cm (1/8 in.) and w 0.08 cm (1/32 in.) (citation 11 in Section 6).

APPENDIX D
OPERATIONS DATA

McIntosh Power Plant

Unit-3

Coal & Pet Coke

2-Oct-07

Run Averages	Fuels Average			Heating Value		Heat Input	
07:46 - 16:58	Coal & Pet Coke	146.5	Tn/Hr	12263	BTU/#	3592.24	MMBtu/Hr
				Average Total		3592.24	MMBtu/Hr
				Average % Heat Input for Runs			98.69%

Average MW for the test = 362.7 MW

Average Fuel Flow (Coal) for the test = 146.5 Tn/Hr

Average Heat Input for the Test =	98.69%

COAL KLB/H		
CEMS Time	Avg. Flow	Load
0746 - 0948	292.8	364
1035 - 1249	292.6	363
1455 - 1658	293.4	361
Avg. Flow	292.9	362.7

Avg. Tn/Hr 146.5 Tn/Hr

Prepared by Christine More

Site Name: MPP3
Data Averaging Type: 1m

Time of Report: 10/02/07 16
Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	07:46	366
	07:47	364
	07:48	363
	07:49	363
	07:50	362
	07:51	362
	07:52	362
	07:53	365
	07:54	367
	07:55	368
	07:56	368
	07:57	367
	07:58	366
	07:59	365
	08:00	364
	08:01	364
	08:02	364
	08:03	366
	08:04	367
	08:05	368
	08:06	367
	08:07	367
	08:08	367
	08:09	366
	08:10	366
	08:11	365
	08:12	365
	08:13	365
	08:14	365
	08:15	365
	08:16	365
	08:17	364
	08:18	364
	08:19	365
	08:20	365
	08:21	365
	08:22	365
	08:23	366
	08:24	366
	08:25	366
	08:26	367
	08:27	367
	08:28	366
	08:29	365
	08:30	365
	08:31	365
	08:32	365
	08:33	365
	08:34	365
	08:35	366

Site Name: MPP3
Data Averaging Type: 1m

Time of Report: 10/02/07 16
Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	08:36	365
	08:37	364
	08:38	366
	08:39	366
	08:40	367
	08:41	367
	08:42	366
	08:43	366
	08:44	366
	08:45	365
	08:46	365
	08:47	364
	08:48	363
	08:49	362
	08:50	362
	08:51	363
	08:52	363
	08:53	363
	08:54	364
	08:55	365
	08:56	366
	08:57	365
	08:58	364
	08:59	364
	09:00	365
	09:01	364
	09:02	364
	09:03	363
	09:04	362
	09:05	362
	09:06	363
	09:07	364
	09:08	364
	09:09	365
	09:10	366
	09:11	366
	09:12	365
	09:13	365
	09:14	365
	09:15	364
	09:16	364
	09:17	364
	09:18	364
	09:19	364
	09:20	364
	09:21	363
	09:22	363
	09:23	363
	09:24	363
	09:25	364

Site Name: MPP3
Data Averaging Type: 1m

Time of Report: 10/02/07 16
Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	09:26	364
	09:27	363
	09:28	363
	09:29	363
	09:30	364
	09:31	365
	09:32	364
	09:33	364
	09:34	363
	09:35	362
	09:36	362
	09:37	362
	09:38	363
	09:39	363
	09:40	362
	09:41	364
	09:42	364
	09:43	364
	09:44	363
	09:45	362
	09:46	361

Average =	364
Maximum =	368
Minimum =	361
Possible Values =	121
Included Values =	121
Total =	44103

* - excluded values (missing, OOC, invalid, suspect)
< - missing
T - out-of-control
I - invalid
S - suspect
E - exceedance
F - stack not operating
B - invalid (PADER)
U - missing data substituted
-999 - missing value
-888 - value could not be calculated

Site Name: MPP3
Data Averaging Type: 1m

Time of Report: 10/02/07 16
Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	10:35	363
	10:36	362
	10:37	361
	10:38	362
	10:39	362
	10:40	362
	10:41	362
	10:42	362
	10:43	362
	10:44	363
	10:45	363
	10:46	363
	10:47	364
	10:48	363
	10:49	363
	10:50	363
	10:51	363
	10:52	364
	10:53	364
	10:54	365
	10:55	366
	10:56	365
	10:57	364
	10:58	363
	10:59	361
	11:00	362
	11:01	362
	11:02	363
	11:03	364
	11:04	363
	11:05	363
	11:06	363
	11:07	363
	11:08	363
	11:09	362
	11:10	362
	11:11	362
	11:12	362
	11:13	362
	11:14	361
	11:15	361
	11:16	361
	11:17	362
	11:18	362
	11:19	361
	11:20	360
	11:21	359
	11:22	360
	11:23	360
	11:24	357

Site Name: MPPJ
Data Averaging Type: In

Time of Report: 10/02/07 16
Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	11:25	357
	11:26	357
	11:27	357
	11:28	358
	11:29	360
	11:30	360
	11:31	359
	11:32	359
	11:33	360
	11:34	361
	11:35	362
	11:36	362
	11:37	361
	11:38	361
	11:39	360
	11:40	360
	11:41	361
	11:42	361
	11:43	361
	11:44	362
	11:45	362
	11:46	362
	11:47	363
	11:48	364
	11:49	363
	11:50	364
	11:51	363
	11:52	362
	11:53	360
	11:54	360
	11:55	360
	11:56	361
	11:57	361
	11:58	362
	11:59	362
	12:00	362
	12:01	362
	12:02	363
	12:03	363
	12:04	363
	12:05	363
	12:06	363
	12:07	363
	12:08	364
	12:09	365
	12:10	366
	12:11	366
	12:12	366
	12:13	365
	12:14	365

Plant Name: MPP

General Average Report

Reporting Period: 10/02/2007 to 10/02/2007

Site Name: MPP3

Time of Report: 10/02/07 16

Data Averaging Type: 1m

Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	12:15	364
	12:16	365
	12:17	364
	12:18	365
	12:19	365
	12:20	365
	12:21	366
	12:22	366
	12:23	365
	12:24	364
	12:25	364
	12:26	364
	12:27	366
	12:28	366
	12:29	366
	12:30	366
	12:31	365
	12:32	364
	12:33	363
	12:34	363
	12:35	363
	12:36	362
	12:37	363
	12:38	362
	12:39	362
	12:40	362
	12:41	363
	12:42	364
	12:43	365
	12:44	365
	12:45	365
	12:46	365
	12:47	364
	12:48	363
	12:49	363

Average =	363
Maximum =	366
Minimum =	357
Possible Values =	135
Included Values =	135
Total =	48950

* - excluded values (missing, OOC, invalid, suspect)
< - missing
T - out-of-control
I - invalid
S - suspect
M - exceedance
F - stack not operating
B - invalid (PADER)
U - missing data substituted
-999 - missing value
-888 - value could not be calculated

Plant Name: MPP

General Average Report

Reporting Period: 10/02/2007 to 10/02/2007

Site Name: MPP3

Data Averaging Type: 1m

Time of Report: 10/02/07 17

Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	14:55	362
	14:56	362
	14:57	362
	14:58	362
	14:59	362
	15:00	362
	15:01	362
	15:02	362
	15:03	362
	15:04	362
	15:05	363
	15:06	363
	15:07	362
	15:08	362
	15:09	362
	15:10	363
	15:11	364
	15:12	363
	15:13	363
	15:14	363
	15:15	363
	15:16	362
	15:17	361
	15:18	361
	15:19	361
	15:20	362
	15:21	362
	15:22	361
	15:23	360
	15:24	360
	15:25	361
	15:26	361
	15:27	362
	15:28	363
	15:29	363
	15:30	362
	15:31	361
	15:32	361
	15:33	360
	15:34	360
	15:35	360
	15:36	359
	15:37	359
	15:38	359
	15:39	360
	15:40	360
	15:41	361
	15:42	362
	15:43	362
	15:44	362

Plant Name: MPP

General Average Report

Reporting Period: 10/02/2007 to 10/02/2007

Site Name: MPP1

Data Averaging Type: 1m

Time of Report: 10/02/07 17

Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	15:45	362
	15:46	363
	15:47	363
	15:48	363
	15:49	362
	15:50	362
	15:51	362
	15:52	362
	15:53	361
	15:54	360
	15:55	359
	15:56	358
	15:57	358
	15:58	358
	15:59	358
	16:00	359
	16:01	360
	16:02	362
	16:03	363
	16:04	364
	16:05	365
	16:06	365
	16:07	362
	16:08	360
	16:09	358
	16:10	357
	16:11	357
	16:12	358
	16:13	359
	16:14	359
	16:15	360
	16:16	360
	16:17	360
	16:18	360
	16:19	360
	16:20	359
	16:21	359
	16:22	359
	16:23	360
	16:24	362
	16:25	364
	16:26	365
	16:27	365
	16:28	365
	16:29	364
	16:30	363
	16:31	362
	16:32	361
	16:33	359
	16:34	358

General Average Report

Reporting Period: 10/02/2007 to 10/02/2007

Site Name: MPPD

Time of Report: 10/02/07 17

Data Averaging Type: 1m

Rolling Average Interval: 1

Date	Time	LOAD (MW)
10/02/07	16:35	357
	16:36	356
	16:37	357
	16:38	358
	16:39	359
	16:40	360
	16:41	361
	16:42	360
	16:43	360
	16:44	360
	16:45	360
	16:46	360
	16:47	360
	16:48	360
	16:49	361
	16:50	362
	16:51	363
	16:52	363
	16:53	363
	16:54	362
	16:55	361
	16:56	360
	16:57	359
	16:58	359

Average =	361
Maximum =	365
Minimum =	356
Possible Values =	124
Included Values =	124
Total =	44764

* - excluded values (missing, OOC, invalid, suspect)
< - missing
T - out-of-control
I - invalid
S - suspect
H - exceedance
F - stack not operating
B - invalid (PADER)
U - missing data substituted
-999 - missing value
-888 - value could not be calculated

APPENDIX E
PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

STACS

Bill Mayhew	Project Director
Mike Dickerson	Field Team Leader
Winton Kelly	Senior Engineer/Reporting
Aaron Harden	Document Coordinator

LAKELAND ELECTRIC

Christine More	Test Coordinator
Ron Kremann	Plant Engineer

FLORIDA DEP

William Schroeder	Test Observer