

Verification Report for Greater New Bedford Landfill Gas Utilization Project Dartmouth, Massachusetts Environmental Resources Trust/CCX

April 2008

Prepared by: First Environment, Inc.
91 Fulton Street
Boonton, New Jersey 07005



1. Introduction

This report is provided to CommonWealth New Bedford Energy LLC (CNBE), a wholly owned subsidiary of CommonWealth Resource Management Corporation (CRMC), as a deliverable of the Chicago Climate Exchange's (CCX®) and Environmental Resources Trust, Inc.'s (ERT) project verification processes. This report covers the verification of landfill gas (LFG) destruction emissions reduction estimates for the period from July 1, 2007 through December 31, 2007 for the Greater New Bedford LFG Utilization Project (the Project). First Environment, Inc. (First Environment) conducted the verification in April of 2008.

2. Objectives

The purpose of this verification was, through review of appropriate evidence, to establish that:

- the project conforms to the requirements of the verification criteria discussed in Section 6; and
- the data reported are accurate, complete, consistent, transparent and free of material error or omission.

3. Verification Scope

The scope of the verification is outlined in the table below:

Geographic Boundaries	Crapo Hill Landfill, Dartmouth, MA
Greenhouse Gases Verified	Carbon Dioxide Emissions Offsets resulting from the capture and destruction of methane
Reporting Years	July 1, 2007 through December 31, 2007
Data Sources	Metered Data and Emissions Offset Estimates

4. Standards Used to Certify Emissions

The following table outlines the guidance and protocols used to conduct this verification:

Verification Process	CCX® Rulebook: Environmental Audits and Offset Project Verification, 2004
Standard of Verification	CCX® Project Guidelines: Landfill Gas Version 1, February 2, 2004 ERT Monitoring, Reporting and Verification Protocol, MRV CNBE 2005 12, December 2005
Level of Assurance	95 percent accuracy (i.e., material misstatement is <5 percent of total reported emissions)
De Minimis	Less than 5 percent of total emissions

5. Overview of the Verification Process

The verification process for the Project was as follows:

- conflict of interest review,
- selection of audit team,
- initial interaction with the CBE contact,
- development of the verification plan,
- review of the data collection process,
- review of the raw data and calculations for the data period under review
- follow-up interaction with the CBE contact for corrective action or supplemental data as needed, and
- final statement and report development.

The verification process was utilized to gain an understanding of the project's emission sources and reductions (including the risk for leakage), to evaluate and verify the collection and handling of data, the calculations that lead to the results, and the means for reporting the associated data and results.

Conflict of Interest Review

Prior to beginning any verification project, First Environment conducts an evaluation to identify any potential conflicts of interest associated with the project. No potential conflicts were found for this Project either in the initial verification in 2006 or in this verification.

Audit Team

First Environment's audit team consisted of the following individuals who were selected based on their verification experience as well as familiarity with landfill operations. In addition, members of the audit team had specific experience verifying GHG reductions from the Project on four prior occasions.

B. Tod Delaney, Ph.D., P.E., BCEE – Senior Reviewer
Christina M. Magerkurth, P.E. – Lead Auditor
Greg Kozak – Auditor

Resumes for the audit team are included in Attachment A.

Audit Kick-off

The verification audit was initiated with an exchange of emails between First Environment and the primary CRMC contact, Thomas Yeransian. The communication focused on confirming the scope and schedule, confirming that no changes have occurred in operations at the Site since First Environment's initial visit in 2006, and the data required for the verification.

First Environment previously verified emissions reduction credits from this Site for both CCX® and Environmental Resources Trust for crediting periods January 1, 2003 through June 30, 2007. Evidence of credit ownership is included as Attachment B. Because no changes in operation occurred since the first site visit and the site confirmed that no changes to the process or equipment had occurred, an additional site visit was not conducted.

Development of the Verification Plan

Based on the information provided in the Project Protocol, the team formally documented its verification plan as well as determined the data-sampling plan.

Emissions Reduction Data and Calculation Assessment

This assessment used information and insights gained during the previous steps to evaluate the collected data and the reported emissions reduction quantities, and identify if either contained material or immaterial misstatements.

Corrective Actions and Supplemental Information

The team did request supplemental information regarding the SCADA system calculations in order to confirm that the system properly rolled data up in the daily reports. The evidence was provided by CNBE. The team was prepared to request corrective actions as needed. No such request was necessary as part of this verification.

Verification Reporting

Verification reporting, represented by this report and additional audit statements, documents the verification process and identifies its finding and results. Verification reporting consists of this report and a project attestation for Environmental Resources Trust, as well as this report and a verification statement and attestation to be submitted to the Chicago Climate Exchange.

6. Site's Conformance with Verification Protocols

Site Overview

The landfill is owned and operated by the Greater New Bedford Regional Refuse Management District (the District) and, as permitted by the Massachusetts Department of Environmental Protection (MDEP), consists of 69.8 acres of a 152-acre parcel of land located in the Town of Dartmouth, Massachusetts. The landfill began receiving municipal solid waste and construction and demolition debris in 1995 and currently encompasses approximately 30 acres of the 69.8 permitted acres. The landfill does not fall under the Federal New Source Performance Standards (NSPS) regulation or other local, state, or federal regulations requiring the collection of the landfill gas.

The MDEP permit governing the Site requires passive venting of landfill gas to the atmosphere. The District voluntarily installed an active landfill gas collection system consisting of lateral and vertical landfill gas extraction wells, header pipes connecting the wells, and a flare to combust the landfill gas in order to prevent odor issues and to provide a means for productive use of the landfill gas in the future. Two vacuum blowers were installed to pull the landfill gas to the flare. This initial system was completed and became operational in early 2000. The audit team has reviewed evidence confirming the start date of the project.

The on-site generating facility came online in October 2005. The same collection system is used to provide landfill gas to the generating facility where landfill gas is converted to electrical power via combustion in four Caterpillar 3516 gas engine generator sets. The gas collection system is located outside of the building that houses the power facility. The landfill gas passes through a knock-out tank to remove the condensate, passes through a blower, a gas cooler, a gas filter and coalescing filter, and then moves into the building. Inside the building, the gas moves through an orifice plate that records the flow rate and then is distributed to each of the Caterpillar 3516 engines. A probe located at the orifice plate inside the building measures the methane gas concentration. The facility records all of the relevant data in real time, which is monitored by site staff using a Supervisory Control and Data Acquisition (SCADA) device developed for the Site by TVC Systems.

Data Collection and Monitoring Processes

The audit team discussed the following topics with site staff during the initial site visit and confirmed the information during this verification process:

- the data collection process to generate reports,
- internal documents and protocols that set guidelines for the data collection process.

The information gathered during these discussions was used to assess the project's GHG information system and its controls for sources of potential errors, omissions, and misrepresentations.

Since data is collected in real time and recorded in a database on and off site by the SCADA system, there is a high level of confidence in the data collection and storage process. The system is designed to trigger alarms when parameters fall outside a specified range. Each day the data is reviewed by CRMC staff to assess operating performance and to identify any additional issues that may not have been caught by the SCADA system.

The flow meter was calibrated upon installation and five times during the verification period. The landfill gas flow rate was calculated using a pitot tube and manometer at a sample port located near the orifice plate. These measurements were compared to the recorded measurements from the flow meter to ensure it was operating correctly. The calibrations occurred during this period on July 23, 2007, September 6, 2007, October 31, 2007, November 28, 2007, and December 13, 2007. The instrument that measures methane content is calibrated weekly or biweekly by site staff.

Emissions Reduction Calculation Assessment

As part of the emissions reduction calculation assessment, the Project's assumptions and calculations were reviewed. The additionality arguments presented in the ERT Project Protocol were reviewed and found to be valid based on the information and evidence provided by CNBE. The Project meets the eligibility dates set forth in the CCX guidelines. The Project used justifiable assumptions when defining the baseline scenario as the unmitigated release of methane from the landfill according to the ERT Project Protocol and included the pre-2000 system for baseline calculation according to the CCX guidelines (1998 is the baseline year for purposes of the CCX calculations).

The emission reduction calculations, provided by CNBE and included in Attachment C, were reviewed to ensure accuracy in both the formulas used and the raw data used as input.

Additionally, copies of the raw data used in the calculations, including flow data, methane content data, and combustion efficiency data (provided by CNBE) were compared with the data used in the final calculations and tested for transcription or mathematical errors. The short timeframe being verified allowed for inclusion of all data sources. Therefore, no risk assessment was conducted nor was a sampling approach needed. The calculations for the entire period were reviewed.

CCX® Project Standards

The Chicago Climate Exchange provides project guidance for landfill gas offset and early action credit projects. This guidance document, CCX® Project Guidelines: Landfill Gas Version 1, outlines specific requirements that acceptable projects must meet in order to qualify for credits. The following table lists these specific requirements and identifies how this site meets those requirements:

	Guideline Requirement	Site Compliance	Comments
<i>LFG Flow Rate</i>			
	Measurement at control device not individual wells	Yes	--
	Flow meter type and date of installation		The flow is measured using an orifice plate located downstream of the blower. The plate was installed prior to Project startup in 2005.
	Flow meter upstream of control device and downstream of blower	Yes	Placement is sufficient to ensure laminar gas flow through the orifice plate.
	Records on flow meter calibration	Yes	The first calibration of the flow meter occurred at Project startup and records are kept on and off-site. The flow meter was calibrated using a pitot tube attached to a manometer that is inserted into the LFG flow near the orifice plate. The flow meter was calibrated five times during this six-month period.
	Capable of recording flow every 15 min.	Yes	Flow data is monitored continuously and all data is captured electronically by the SCADA system.
	Shutdown hours recorded and flow data adjusted	Yes	Shutdown of an engine does not stop the operation of the other engines, so the flow to the facility does not stop. If there is a stoppage of all of the engines, landfill gas goes to a flare that is managed by the landfill operator. The data for flare flow is captured by the SCADA system.
	Monthly tabulations of daily LFG flow rate	Yes	Site equipment continuously records LFG flow, and a monthly report is produced that captures the LFG flow for the period.

	Guideline Requirement	Site Compliance	Comments
<i>Methane Concentration</i>			
	LFG Concentration measured	Yes	The methane concentration is measured at the same point as LFG flow, by a California Analytical Instruments 602P Digital non-dispersive infrared analyzer (NDIR).
	Concentration measured on monthly basis	Yes	The LFG concentration of oxygen, carbon dioxide and methane is measured and recorded continuously.
	Measuring instrument calibrated	Yes	The NDIR was first calibrated at Project kick-off in October 2005, and has been calibrated periodically (weekly or bi-weekly) since then.
<i>Electricity Generation</i>			
	Engine performance is monitored and recorded	Yes	The facility uses four Russ Electric controllers to monitor current, voltage, frequency, power factor, apparent power, active power and active energy for each engine, and an additional controller that captures and totals the data for all four.

ERT Protocol MRV CNBE 2005 12

The MRV CNBE 2005 12 document outlines specific requirements that the project must meet in order to be verified. The following table lists these requirements and identifies how this Site meets them:

Project Boundaries:	The project boundaries are consistent with those described in the MRV protocol.
Additionality & Leakage:	The emission reductions were verified to be additional, given existing regulatory requirements. No leakage of emissions outside the project boundaries was identified.
Baseline:	The baseline is unmitigated release of all methane.
Monitoring, Data Collection, & Methodology:	Procedures were in keeping with the MRV protocol. These procedures were discussed in greater detail in previous sections of this report.
Quality Control, Reporting, Documentation, & Uncertainties:	Quality control, reporting, and documentation procedures followed were in keeping with the MRV protocol.

7. Audit Results

CNBE provided good documentation for their emissions estimates as well as its programs around the data collection process. The verification process focused on verifying the data that was used by CNBE to calculate the emissions reductions, as shown on the spreadsheets in Attachment C. The calculations on the spreadsheet were consistent with the CCX[®] and MRV CNBE 2005 12 protocols.

Verified results show 66,022 mT of CO₂e eligible for registration with the Environmental Resources Trust and 57,653 mT of CO₂e eligible for registration with the CCX[®].

8. General Conclusion

Based on the assessments performed and the evidence collected, First Environment concludes that the Project GHG emissions reductions due to the flaring of landfill gas for the period of July 1, 2007 through December 31, 2007, can be considered:

- Consistent with the CCX[®] Project Guidelines for Landfill Gas projects and Environmental Resources Trust, Inc. Monitoring, Reporting and Verification Protocol, MRV CNBE 2005 12.
- Without material discrepancy, and
- Meeting the minimum level of accuracy of at least 95 percent.

First Environment provides reasonable assurance as to the accuracy of the numbers for this period.

CCX[®] Methane Project Reporting Form

CCX Project Owner: CommonWealth New Bedford Energy LLC

Reporting Period:			
Location	Confirmation	Column 1	Column 2
CCX [®] Registered Methane Project Site Name and Address	Site Meets CCX [®] Project Eligibility Rules	Total Metric Tonnes of Methane Combusted During Period	CCX Early Action Credit Issuance
Crapo Hill Landfill, Dartmouth, MA	Yes	3,159 Metric Tonnes CH₄	577 Hundred Metric Tonnes CO₂

CCX[®] Approved Verifier Name:

First Environment, Inc.



Signature of Verified Representative:

Name and Contact Number:

B. Tod Delaney, 1-973-334-0003

Methane Project Attestation by CCX® Project Owner

Reporting period: July 1, 2007 through December 31, 2007

Reporting facility: Crapo Hill Landfill, Dartmouth, MA

I hereby warrant:

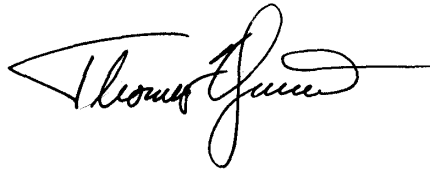
that the methane collection and combustion facilities identified in this filing caused the collection and combustion of methane in the quantities reported by First Environment, Inc. (verifier);

that the methane collection and combustion facilities identified in this filing meet CCX® eligibility rules for such Projects – e.g., the facility was exempt from NSPS requirements during the reporting period;

that CommonWealth New Bedford Energy LLC (Project Owner) continues to hold full legal title to the Greenhouse Gas mitigation rights associated with the capture and combustion of methane at the facility noted above - i.e., they have not gone into contracts with any other firm for their sale.

Signed and attested by a duly authorized representative of:

Project Owner: CommonWealth New Bedford Energy, LLC



Signature: _____

Print Name: Thomas Yeransian

Title: Principal, CommonWealth Resource Management Corporation
Sole Member, CommonWealth New Bedford Energy, LLC.

Date: April 21, 2008

Verified by First Environment, Inc.

Name: Greg Kozak



Signature: _____

ERT Attestation Statement

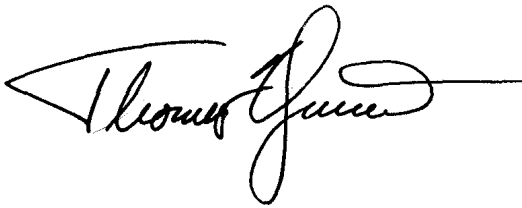
As an officer of CommonWealth New Bedford Energy LLC (CNBE), I hereby certify that the emissions reductions reported in connection with methane capture and combustion have been calculated according to the methods and procedures as outlined and described in the MRV Protocol and are a true representation of the emission performance of the Project.

Thomas Yeransian

Name

Principal of CRMC, the sole member of CNBE

Title

A handwritten signature in black ink, appearing to read "Thomas Yeransian", written over a horizontal line.

Signature

April 21, 2008

Date

ATTACHMENT A

Service Area: GREENHOUSE GAS MANAGEMENT

Name: B. TOD DELANEY, PH.D., P.E., BCEE

Firm Employed: First Environment, Inc.

Years of Relevant Experience: 30+

Degrees/Majors: Ph.D., Environmental Health Engineering -- The University of Texas at Austin

M.B.A., Business Administration -- Pepperdine University

M.S., Chemical Engineering -- University of New Mexico

B.S., Chemical Engineering -- University of New Mexico

**Professional Licenses and/or
Certifications**

Professional Engineer: New York, New Jersey, Florida,
Mississippi, Georgia, Texas, Iowa, Ohio, Illinois, Pennsylvania,
Connecticut, Alabama, Indiana, Nebraska, South Carolina,
Colorado

Chairman of the Board: Business Council for Sustainable
Energy

Certified Principal Environmental Auditor: Institute of
Environmental Management and Assessment (IEMA), England

Certified Lead Auditor: California Climate Action Registry

Conservation Commission Appointee: Town of Cornwall, New
York

Chair of the Environmental Division: American Institute of
Chemical Engineers (AIChE), 1998

Specific Experience: A Chemical and Environmental Health Engineer, Dr. Delaney draws on over 30 years of diverse experience in advising clients on a range of environmental concerns, from greenhouse gas management and air quality assistance, to litigation support and expert testimony. Over the course of his career, he has worked for and consulted to hundreds of clients, taught graduate and undergraduate college courses in chemical and environmental engineering, and authored numerous reports, presentations and publications.

As president of First Environment, Dr. Delaney provides strategic oversight on all of the firm's GHG management, strategy and verification projects.

Experience Relevant to GREENHOUSE GAS MANAGEMENT

- **Business Council for Sustainable Energy (BCSE).** In 1997, Dr. Delaney joined BCSE, a trade group organization created by senior executives in the energy efficiency, electric utility, renewable energy, independent power and natural gas industries in the United States. Dr. Delaney, who now serves as the chairman of the Board of Directors of BCSE, has consistently attended COP meetings to represent the interests of U.S. clean energy companies at the UNFCCC talks.
- **ISO 14000 Series of Standards Participation (Life Cycle Assessment).** In 1995, Dr. Delaney actively participated in the development of the ISO 14000 Series of Standards as a member of the U.S. Technical Advisory Group's (US TAG) to ISO's Technical Committee 207 (TC207). Through this participation, he was integrally involved in the development of life cycle interpretation guidelines. He was elected to serve as the United States expert representative on life cycle assessment, and, in that capacity, has consistently represented the interests of the United States at ISO International Meetings all over the world.

- **ISO 14000 Series of Standards Participation (Climate Change).** Dr. Delaney served as the American National Standards Institute's representative to the Ad Hoc Group on Climate Change of International Organization for Standardization's Technical Management Board and the Chairman of ANSI's Virtual Technical Advisory Group on climate change. In addition, he was appointed as Co-Chair to the ISO's US TAG Climate Change Taskforce. He represented the U.S. in this position at the 2002 Meeting of ISO's TC207 on Environmental Management standards in Johannesburg, South Africa. In October of 1999, Dr. Delaney briefed the U.S. Department of State's Climate Change Team on how to use the ISO 14000 Standards to promote international conformity in the clarification, verification and certification of emissions, before the team left to negotiate in Bonn, Germany.
- Most recently, Dr. Delaney served as a technical expert for the U.S. team regarding ISO 14064, a standard for emission measurement, verification and reporting. He was the international coordinator and a technical expert for the team concerning ISO 14064 Part I, which focused on *entity* emission measurement, verification and reporting. He was also the lead expert for the U.S. on the portion of the standard that deals with *project* emission measurement, verification and reporting. He was the as-needed co-facilitator for Working Group 5 at international meetings about Part 2. Dr Delaney currently serves as one of two experts for the portion of the standard that deals with accreditation.
- **Confidential Major Oil and Gas Company (strategy).** Assisted with a formal review and assessment of GHG management strategy. Analyzed the organization's decisions and understanding of GHG management issues. Developed the company's corporate GHG Inventory Protocol. Advised the team that worked on the development of this corporate level guidance document. This protocol was designed to drive the corporation toward the creation of a robust data collection system that ensures consistency, comparability and transparency throughout the organization. This protocol is also intended to be an effective communication tool to inform interested stakeholder groups of the company's policies, practices and methodologies for GHG data collection.
- **Georgia Pacific (verification).** As the leader of the verification team, Dr. Delaney helped conduct an in-depth assessment of the company's greenhouse gas inventory protocol design and implementation. Along with the verification team, he also evaluated the preliminary year 2000 GHG inventory report conducted under the guidance of the protocol.
- **Bentley Prince Street (verification).** Served as Senior Internal Reviewer for First Environment's certification of the client's 2002 through 2005 GHG reports to the California Climate Action Registry. Verifications have included addressing the company's onsite solar electricity generation, purchases of RECs, and emissions from its sales staff vehicle fleet.
- **Eastman Kodak (verification).** Served as Senior Internal Reviewer for First Environment's verification of Kodak's 2002, 2003, 2004, and 2005 California Climate Action Registry GHG reports covering its U.S. operations as well as a reports of GHG emissions from non-U.S. operations.
- **Waste Management, Inc. (verification).** Served as lead verifier for numerous verification reports that were provided to Waste Management as a deliverable of the Chicago Climate Exchange's project verification process.
- **Air Emissions Measurement and Estimation.** Dr. Delaney began his career primarily in the air emissions field. His work has included the development and execution of extensive field data collection programs (ambient and stack as well as associated meteorological data); atmospheric dispersion modeling; and the conceptual, preliminary, and final designs of air emissions control equipment. Dr. Delaney has executed extensive emission stack testing programs for automobile manufacturers, sugar refineries, electrical utilities, cement kilns, cogeneration facilities, and many other industrial establishments.

- **Large Petroleum Company**, Dr. Delaney had responsibility for the measurement of emissions and development of emission factors for refinery and chemical plant pumps and valves. He also performed dispersion modeling to evaluate the effects of releases from refinery safety valves. He served as a member of an American Petroleum Institute Committee and had responsibility for the development of a test program and a data analysis program to evaluate tanker emissions during all phases of operations, including loading and unloading. Prior to his involvement with air emissions in the petroleum industry, he also worked in oil field and refinery operations.
- **Consultant for the Air Force**. Dr. Delaney was a member of a team that developed a dispersion model to simulate airbase emissions. Sources modeled included jet aircraft, fueling, operations, fueling storage tanks, support vehicles, and maintenance. He was also part of the team that collected field emissions to calibrate the model. Along with this work, he developed a three-dimensional model, which simulates the downward transport and dispersion of an aircraft's exhaust products during climbout and approach. Also in connection with his Air Force consulting, he drafted a field data collection manual for gathering the required input data for the airbase model.
- **Auditor Certification Board of Registered Accreditation member**. Dr. Delaney is an experienced EMS Lead Auditor. He led and directed the project team that performed the EMS audit for a division of a large Northeast utility. He has also developed and presented EMS auditor training courses for Government Institutes, as well as training internal auditors for companies to which First Environment provides EMS implementation services. This EMS auditing experience is strengthened by 30 years of practice as an industrial site auditor and as an environmental regulatory compliance auditor. In recognition of his knowledge and experience in environmental and management systems auditing, Dr. Delaney was recently made a member of the Auditor Certification Board of Registered Accreditation, the primary accreditation body of quality and environmental systems auditors.

Service Area: GREENHOUSE GAS MANAGEMENT

Name: Christina Magerkurth, P.E.
Firm Employed: First Environment, Inc.
Years of Relevant Experience: 10
Degrees/Majors: M.Eng. Environmental Management – Cornell University
B.S. Engineering and Applied Science – Environmental Engineering – California Institute of Technology
Professional Licenses and/or Certifications: Licensed Professional Engineer
Specific Experience: Ms. Magerkurth is experienced in assisting clients with climate change strategies, developing greenhouse gas emissions baseline inventories and auditing greenhouse gas emissions reductions as well as developing, implementing and auditing management systems. Her work primarily focuses on environmental management systems, corporate sustainability, environmental compliance, greenhouse gas management, environmental regulatory support and marketing at both a technical and project management level. Ms. Magerkurth offers her extensive systems, regulatory compliance, and business experience to First Environment's Team.

Experience Relevant to GREENHOUSE GAS MANAGEMENT

Various Local Governments (Inventory and verification). Provided technical assistance or verification services to a variety of municipalities and authorities in support of their inventory development and offset project quantification or verification. Offset projects have been developed or verified in accordance with Chicago Climate Exchange, Environmental Resources Trust, ISO 14064-2, and Voluntary Carbon Standard protocols. Selected clients include: Atlantic County Utility Authority, NJ; Cape May County Utility Authority, NJ; Solid Waste Authority of Central Ohio, OH; Development Authority of the North Country, NY; Steuben County, NY; East Central Solid Waste Commission, MN

Chicago Climate Exchange (verification strategy). Provides technical assistance to the Chicago Climate Exchange in reviewing existing landfill greenhouse gas emissions reduction verification protocol and developing alternatives as appropriate based on project specifics. Reviews requests for variances from protocol and provides recommendations to the Offsets Committee on the technical merits of the proposed methodologies.

Waste Management (verification). Provided verification services for over 15 landfills that have registered landfill greenhouse gas emissions reduction credits with the Chicago Climate Exchange or sold credits directly to buyers. Verification included the site visit, review of raw data and calculation compared to the Chicago Climate Exchange protocol or other selected protocol, and review of technical reports supporting data and calibration records for sites located throughout the United States.

Landfill Waste to Energy Developer (verification). Provided verification services for two sites that have sold landfill greenhouse gas emissions reduction credits on the Chicago Climate Exchange, Environmental Resources Trust and GE-AES. Verification included the site visit, review of data, and review of a newly approved allocation methodology.

Major Financial Corporation (strategy and inventory). Assisted a major financial corporation with developing responses for the Carbon Disclosure Project questionnaire. In addition, provided assistance in developing a base GHG emissions inventory and plans for improving and refining the inventory in subsequent years.

Major International Financial Corporation (strategy and inventory). Assisted an international financial corporation with developing documentation for reductions associated with projects, an overall inventory, and responses for the Carbon Disclosure Project questionnaire.

Major Aluminum Manufacturer (verification). Conducted site visits and data review for GHG verification for several facilities. Site visits allowed an opportunity to review data collection and roll-up methodologies to ensure completeness and accuracy. Data reviews included a review of assumptions made and calculations. The audits were performed under the Framework Agreement on Voluntary Greenhouse Gas Reduction in Québec.

Madison Gas and Electric (strategy and inventory). Participated in First Environment's team that provided assistance to the utility with a report to stakeholders communicating the company's understanding and actions addressing the issue of climate change. Drafted section discussing the company's environmental management system (EMS) and approach for monitoring and setting goals related to greenhouse gas emissions. As part of the development of the EMS, assisted in the detailed identification of GHG sources throughout their coal fired power plant and participated in discussion regarding potential sources throughout the company. Provided review and support for their air emission quantification process.

Wisconsin Public Service Resources (EMS). Led team in developing EMS for the entire organization and piloting the EMS at a coal fired power plant. Assisted site with the identification of activities, aspects, and impacts for Wisconsin Public Service's coal burning power plant. Special emphasis was placed on those activities that generate air emissions from greenhouse gases.

AES Southland, LLC (verification). Served as lead certifier and project manager for First Environment's certification of the organization's 2006 GHG reports to the California Climate Action Registry. Included the evaluation of the data management system, assessment of emissions calculations, and reporting of certification activities as well as oversight for conducting five site visits to representative facilities.

USG Corporation (verification). Served as lead certifier and project manager for First Environment's certification of the organization's 2004, 2005 and 2006 GHG reports to the California Climate Action Registry. Included the evaluation of the data management system, assessment of emissions calculations, and reporting of certification activities. The scope of the project was revised to include verification of every emissions source at every facility.

Renewable Energy Developer (inventory and strategy). Providing technical support to an organization developing landfill gas to energy facilities and other renewable projects. Reviewing design documents, developing monitoring plans and project documentation to demonstrate the emissions reductions associated with the projects.

First Environment & U.S. EPA Climate Leaders (inventory). Developed internal protocol regarding transportation related emissions quantification and tracking. As a former Management Representative for First Environment's environmental management system, assisted in the coordination of all data needed to support the annual reports.

Metal Finishing Company (compliance and inventory). Developed a software application for a metal finishing company to track paint and thinner usage. Assisted in the development of air emissions compliance reports and internal tracking reports.

Service Area: GREENHOUSE GAS MANAGEMENT

Name: Gregory L. Kozak
Firm Employed: First Environment, Inc.
Years of Relevant Experience: 8
Degrees/Majors: M.S., Natural Resources and Environment – University of Michigan
B.S., Environmental Engineering – University of Notre Dame
Specific Experience: Mr. Kozak has more than eight years of combined experience in strategic communications and environmental consulting with project management experience in climate change analysis, Life Cycle Assessment (LCA), community relations/public participation, and stakeholder education, research, and outreach. His current responsibilities at First Environment include assisting clients with corporate climate change strategies and GHG management programs, developing greenhouse gas emissions baseline inventories and auditing greenhouse gas emissions reductions.

Experience Relevant to GREENHOUSE GAS MANAGEMENT

- **LCA and GHG Emission Reduction Strategy Development.** As a Research Associate within University of Michigan's Center for Sustainable Systems (CSS), Mr. Kozak conducted independent research on a variety of topics including LCA, smart growth policies, renewable energy, energy efficiency, and greenhouse gas emission reduction strategies. Mr. Kozak's LCA work, in particular, has been published in numerous scientific journals and presented at scientific and professional conferences. Also while at the University of Michigan, Mr. Kozak was awarded the AT&T Industrial Ecology faculty fellowship award, which aided the completion of his published thesis investigating the environmental benefits of e-book technologies. Mr. Kozak's research endeavors often involved coordinating with manufacturers and their suppliers to obtain data to characterize each stage of a product's life cycle, using that data to model the material and energy flows of each product's system, and translating identified environmental burdens into environmental impact categories (e.g., global warming impacts, stratospheric ozone depletion, acidification, etc.). This work has provided Mr. Kozak with a unique viewpoint for evaluating product systems and identifying holistic and cost effective environmental improvement strategies.
- **GHG Verification.** Experience performing greenhouse gas reduction credit verification audits for clients participating in the Chicago Climate Exchange (CCX).
- **First Environment & U.S. EPA Climate Leaders.** Involved in the development of First Environment's GHG Inventory, which includes emissions from electricity use, natural gas combustion and fleet activity.

ATTACHMENT B

SITE LEASE AGREEMENT

BETWEEN

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

and

COMMONWEALTH NEW BEDFORD ENERGY LLC

Dated as of December 31, 2003

SITE LEASE AGREEMENT

This Site Lease Agreement (the "*Lease Agreement*") is made as of the 31st day of December, 2003, by and between **GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT**, a Massachusetts regional refuse district with principal offices at 300 Samuel Barnet Boulevard, New Bedford, Massachusetts ("*Lessor*"), and **COMMONWEALTH NEW BEDFORD ENERGY LLC**, a Delaware limited liability company, with principal offices at 199 Corey Street, Boston, Massachusetts ("*Lessee*"). Lessor and Lessee are referred to herein together as the "*Parties*" and singly as a "*Party*".

RECITALS

WHEREAS, Lessor owns and operates the Crapo Hill Sanitary Landfill located at Samuel Barnet Boulevard, New Bedford, Massachusetts (as further defined herein, the "*Landfill*");

WHEREAS, Lessor and Lessee have entered into that certain Landfill Gas Purchase & Sale Agreement (the "*Landfill Gas Purchase & Sale Agreement*") contemporaneous with the execution of this Lease Agreement, whereby Lessee will purchase any and all gas elements developed through the decomposition of waste deposited in the Landfill and collected and produced by Lessor (the "*Landfill Gas*") to fuel a planned electric generation facility (the "*Generating Facility*"); and

WHEREAS, in order to carry out the purposes of the Landfill Gas Purchase & Sale Agreement, Lessor wishes to lease to Lessee and Lessee wishes to accept from Lessor, land within or adjacent to the Landfill on which Lessee may construct, operate and maintain the Generating Facility, together with other appurtenant rights.

NOW THEREFORE, in consideration of the premises and mutual covenants set forth herein and subject to the terms and conditions hereof, the Parties hereby agree as follows:

Article 1. Definitions

Capitalized terms when used herein shall have the meanings set forth below:

"*Access and Performance Easements*" shall have the meaning set forth in Section 2.2 hereof.

"*Additional Contingent Payments*" shall have the meaning set forth in Section 5.3 hereof.

"*Applicable Laws*" shall mean any act, statute, law, regulation, permit, license, ordinance, rule, judgment, order, decree, or written directive, guideline or policy (to the extent mandatory) or any similar form of decision or determination by any governmental

authority with jurisdiction over the LFGMS, the Landfill, the Generating Facility or the performance of the work hereunder and the transaction contemplated hereunder.

"Base Rent" shall have the meaning set forth in Section 5.1 hereof.

"Contingent Payments" shall have the meaning set forth in Section 5.2 hereof.

"Contract Year" shall mean every twelve (12) month period which begins at 12:01 a.m. Eastern Standard Time on January 1 and on every anniversary thereof during the Term.

"Day" shall mean a calendar day.

"Delivery Point" shall have the meaning set forth in the Landfill Gas Purchase & Sale Agreement.

"Easements" shall mean the Access and Performance Easements, the Lessee Electric Easements and the Other Utility Easements.

"Effective Date" shall mean the date on which both Parties have executed this Lease Agreement.

"Electric Utility" means NSTAR, its predecessors, successors and affiliates.

"Electric Utility Easement" shall have the meaning set forth in Section 2.3 hereof.

"Environmental Attributes" shall have the meaning set forth in Section 6.4 hereof.

"Force Majeure" shall mean acts of God, strikes, lockouts or other industrial disturbances, epidemics, landslides, lightning, earthquakes, fires, storms, hurricanes, floods, high-water washouts, acts of the public enemy, wars, blockades, insurrections, riots, arrests and restraints by governments, civil disturbances, catastrophic events such as explosions, breakage or accident to machinery or lines of pipe caused by the foregoing and governmental actions such as the enactment of statutes, laws or regulations frustrating the purpose of this Lease Agreement, not within the control of the Party claiming Force Majeure and which, by the exercise of reasonable diligence, such Party is unable to prevent or overcome. Force Majeure shall not include increases in the costs associated with the construction or operation of the Generating Facility or the LFGMS or a change in market conditions or any other event not specifically enumerated above which makes uneconomic the operation of the Generating Facility or the LFGMS or the sale of Landfill Gas or any component thereof or the sale of electricity generated by the Generating Facility.

"Gap" shall have the meaning set forth in Section 2.3 hereof.

| *

to confirm or restate the provisions of this Section 5.7 or substantially similar provisions or evidence the senior status of any Lender Security Interest or any debt to Lender so long as such documents or instruments are consistent with the expressed intent of this Section 5.7, including but not limited to any intercreditor or subordination agreements with any Lender or prospective Lender.

If, having made commercial reasonable efforts, Lessee is unable to obtain debt financing due in whole or in part to the existence of the Lessor Security Interest, then at the request of Lessee the Parties shall negotiate in good faith another equivalent form of security assuring Lessor that Lessee will make the Secured Payments, such as a payment bond in favor of Lessor or prepayment of some or all of the Secured Payments.

Article 6. Taxes and Environmental Benefits

6.1. Income Taxes. Each Party shall be responsible for any federal, state and local taxes based upon or measured by its income, and any franchise taxes based upon its corporate existence.

6.2 Property Taxes. Lessor shall be responsible for any taxes and assessments against the Landfill and the Site as and when they become due. Lessee shall pay all taxes (real and personal) and assessments allocable to the Generating Facility, the Site Lease or Easements. Lessor and Lessee shall make reasonable efforts to ensure that the Site and Generating Facility are separately assessed by any taxing authorities. Lessee shall have the right but not the obligation, to contest the validity of any assessment of such taxes or assessment and/or any relevant authority's failure to separately assess the Generating Facility. Lessor shall reasonably cooperate with and assist Lessee in any contest at Lessee's sole cost.

6.3 Lessee Tax Credits.

(a) As between the Parties, Lessee shall have sole title to any tax credits under Section 45 of the Internal Revenue Code or any other similar state, federal or local credits or deductions, payments or benefits arising from the purchase of Landfill Gas or the generation and sale of electricity using Landfill Gas as a fuel (as opposed to the production, extraction and sale of Landfill Gas) shall belong to Lessee.

(b) The Parties recognize that the LFGMS presently does not qualify for tax credits under Section 29 of the Internal Revenue Code. If Section 29 is amended or extended in a manner that allows the LFGMS to qualify for Section 29 tax credits and Lessee exercises its option under Section 7.3 hereof and takes an ownership interest in the LFGMS, it is the intent of the Parties that Lessee will be entitled to claim the Section 29 tax credits.

(c) All tax credits referenced in subparagraphs (a) and (b) above are referred to collectively herein as "*Lessee Tax Credits*".


6.4 Environmental Attributes. Lessee and/or its designees, successors and assigns, shall have the right, beginning on the date that the Generating Facility becomes operational and so long as this Lease Agreement is in effect thereafter, to all attributes of an environmental or other nature, known or unknown at the time of this Lease Agreement, including but not limited to allowances, certificates, RECs or other green power price premiums or similar constructs generated by or attributable to the Generating Facility by virtue of its classification as a renewable energy project under Applicable Laws, emissions credits and all other credits, offsets, tradable renewable certificates (sometimes referred to as "green tags"), and all similar rights issued, recognized, created or otherwise arising from use or disposition of the Landfill Gas delivered to Lessee, including but not limited to the generation and/or sale of electricity at the Generating Facility using Landfill Gas, the delivery and/or sale of capacity (the Generating Facility's capability to reliably generate a specific amount of electricity at a given point in time) and electricity to any purchaser thereof, the production of thermal energy or other energy products as a by-product of generating electricity at the Generating Facility, and the destruction of such Landfill Gas ("*Environmental Attributes*"). Environmental Attributes include but shall not be limited to those that are created by regulations, statutes, or other governmental action enacted before or after the Effective Date. Environmental Attributes include but shall not be limited to those that can be used to (1) claim responsibility for the reduction of emissions and/or pollutants, (2) claim ownership of emission and/or pollution reduction rights, and (3) claim reduction or avoidance of emissions or pollutants. Emissions and pollutants include, but are not limited to, acid rain precursors, carbon dioxide, carbon monoxide, chlorinated hydrocarbons, greenhouse gases, mercury, metals, methane, nitrogen oxides, nitrogen-oxygen compounds, ozone precursors, particulate matter, sulfur dioxide, toxic air pollutants, other carbon and sulfur compounds, and similar pollutants or contaminants of air, water or soil, under any governmental, regulatory or voluntary program, including but not limited to the United Nations Framework Convention on Climate Change and related Kyoto Protocol or any other program. Environmental Attributes exclude Section 45 tax credits, Section 29 tax credits and any and all other tax credits or benefits associated with the ownership or operation of the Generating Facility or production of Landfill Gas. Prior to the date that the Generating Facility becomes operational, Lessor shall have the right to any Environmental Attributes attributable to the Landfill or the LFGMS.

6.5 Protection of Environmental Attributes and Lessee Tax Credits. The provisions of this Lease Agreement are intended to ensure that, as between Lessor and Lessee, Lessee shall have all right, title and interest in any Environmental Attributes and Lessee Tax Credits beginning on the date that the Generating Facility becomes operational. Lessor shall not, under any circumstances, take or claim credits, deductions, payments or benefits that would in any way reduce the amount or diminish or impair the value of the Environmental Attributes or any Lessee Tax Credits, or take any other avoidable action that Lessee reasonably demonstrates would reduce, diminish or impair any Environmental Attributes or Lessee Tax Credits. Lessor and Lessee shall also avoid taking any action that would undermine the claim of Lessee Tax Credits. However, Lessor shall have no duty hereunder to affirmatively enhance or improve Lessee's ability to realize Environmental Attributes or Lessee Tax Credits except for Lessor's duty to

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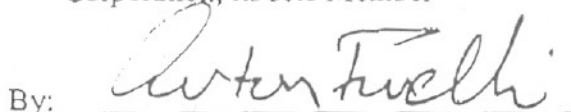
WHEREFORE, Lessor and Lessee have set their hands and seals as of the date
at above.

LESSOR: Greater New Bedford Regional Refuse
Management District

By: 
David L. Vincent, Chairperson

LESSEE: Commonwealth New Bedford Energy LLC

By: Commonwealth Resource Management
Corporation, its sole Member

By: 
Anton Finelli, President

Signed before me on
12/31/03

Deborah L. Piva

DEBORAH L. PIVA

Notary Public

My Commission Expires July 31, 2009

LANDFILL GAS PURCHASE & SALE AGREEMENT

between

GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT

and

COMMONWEALTH NEW BEDFORD ENERGY LLC

Dated as of December 31, 2003

LANDFILL GAS PURCHASE & SALE AGREEMENT

THIS LANDFILL GAS PURCHASE & SALE AGREEMENT (the "*Agreement*") dated as of December 31, 2003 is by and between **GREATER NEW BEDFORD REGIONAL REFUSE MANAGEMENT DISTRICT**, a Massachusetts regional refuse district with principal offices at 300 Samuel Barnet Boulevard, New Bedford, Massachusetts ("*Seller*"), and **COMMONWEALTH NEW BEDFORD ENERGY LLC**, a Delaware limited liability company, with principal offices at 199 Corey Street, Boston, Massachusetts ("*Purchaser*"). Seller and Purchaser are referred to herein together as the "*Parties*" and singly as a "*Party*".

RECITALS

WHEREAS, Seller owns and operates the Landfill;

WHEREAS, Seller owns and operates Landfill Gas extraction facilities and management systems at the Landfill;

WHEREAS, pursuant to the Lease Agreement (defined below) Seller has granted to Purchaser certain rights in the Site for the purposes of constructing, owning and operating the Generating Facility that will be designed to use Landfill Gas for fuel; and

WHEREAS, Seller wishes to deliver and sell to Purchaser, and Purchaser wishes to purchase from Seller, all of the Landfill Gas extracted by Seller from the Landfill in accordance with the terms and conditions hereof, for the purpose of using such Landfill Gas as a fuel source for the Generating Facility.

NOW, THEREFORE, in consideration of the mutual agreements contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, Seller and Purchaser agree as follows:

Article 1. Definitions

Capitalized terms when used herein shall have the meanings set forth below. Capitalized terms not defined below are as defined in the Lease Agreement.


"*Agreement*" shall mean this Landfill Gas Purchase & Sale Agreement, including all exhibits and schedules hereto, as the same may be amended from time to time.

"*BTU*" shall mean British Thermal Unit.

"*Delivery Commencement Date*" shall mean the date on which Seller commences delivery of Landfill Gas to Purchaser and Purchaser accepts initial delivery of Landfill Gas from Seller, in accordance with the terms hereof, which shall occur on the Day specified by Purchaser in a notice to Seller by at least ten (10) Days advance notice;

three (3) consecutive Days, after which Purchaser's obligation to pay for Landfill Gas shall resume. Thereafter, any further deficiency will require a new notice.

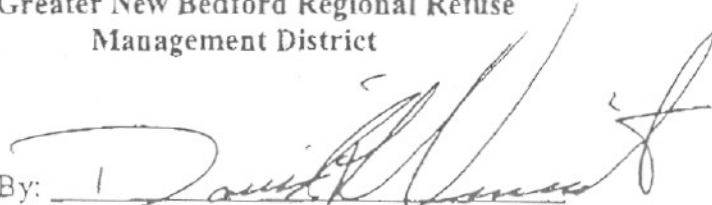
2.5 Suspension of Delivery and Purchase Obligation for Force Majeure, Scheduled Outages and Failure of Electricity Purchaser to Accept Electricity. The delivery and purchase obligations described in Section 2.1 hereof shall be suspended (a) during events of Force Majeure affecting Seller or Purchaser, (b) during scheduled outages of the LFGMS or of the Generating Facility, or (c) during any period of time not to exceed ninety (90) Days within any twelve (12) month period that any purchasers of electricity from the Generating Facility are not accepting electricity from Purchaser, unless the failure to take electricity is caused by the actions or inaction of Purchaser (Purchaser shall notify Seller in writing within two (2) business Days of such event and shall make good faith diligent efforts to sell the electricity from the Generating Facility). Each Party shall notify the other Party of a scheduled outage of the first Party's facilities at least thirty (30) Days in advance of the scheduled commencement of the outage. No scheduled outage of the LFGMS shall exceed one (1) Day. Seller's scheduled outages shall be limited to a total of three (3) Days in any Contract Year. Each Party shall coordinate its scheduled outages with the other Party to avoid interference with the operation of the other Party's facility.

2.6 Environmental Attributes. Seller acknowledges and agrees that Purchaser shall have the right to all Environmental Attributes, as that term is defined and described in Section 6.4 of the Lease Agreement. 

2.7 Purchaser-Funded Improvements to LFGMS. If Seller does not deliver Landfill Gas meeting the Minimum Methane Content requirement on an average basis over three (3) consecutive days, and if Purchaser determines that capital improvements or adjustments to the LFGMS are required to maintain the Minimum Methane Content, Purchaser may send written notice to Seller that capital improvements or adjustments to the LFGMS are required, including all information describing the improvements or adjustments. If Seller does not agree within ten (10) Days after receipt of Purchaser's written notification to undertake such capital improvements or adjustments within forty (40) Days of such notification, then Purchaser may undertake such capital improvements or adjustments including recalibration of the LFGMS. Purchaser shall make all such improvements or adjustments in a good and workmanlike manner in accordance with Applicable Laws and generally accepted industry practice. Purchaser shall then be entitled to offset up to \$50,000 of the reasonable cost incurred by Purchaser to make such capital improvements or adjustments attributable to the failure to meet Minimum Methane Content against any payments due to Seller hereunder until Purchaser has been fully reimbursed for such reasonable costs up to \$50,000. If the Parties mutually agree, the \$50,000 ceiling on reimbursable capital improvements or adjustments may be increased. In no event shall the amount of such capital improvements or adjustments setoff against Seller's payment exceed \$100,000 in any one Contract Year. With respect to any substantial capital improvements, Purchaser shall (a) provide Seller with copies of the contractor's certificates of insurance in compliance with Section 9.1 of the Lease Agreement, (b) provide Seller with copies of any as-built drawings delivered to Purchaser

WHEREFORE, the Parties hereto have caused the execution of this Agreement by the officers whose names appear below as of the Effective Date.

Greater New Bedford Regional Refuse
Management District

By: 
David L. Vincent, Chairperson

Commonwealth New Bedford Energy LLC

By: Commonwealth Resource Management
Corporation, its sole Member

By: 
Anton Finelli, President

Signed before me on 12/31/03

Deborah L. Piva

DEBORAH L. PIVA

Notary Public

My Commission Expires July 31, 2009

ENGINEER CERTIFICATE

The undersigned engineer hereby issues this certificate to the best of its knowledge after due inquiry and review in connection with Section 3.3(a)(iv) of the Construction and Term Loan Agreement dated February 18, 2005 between Hudson United Bank and Commonwealth New Bedford Energy, LLC (the "Loan Agreement"). (Capitalized terms defined herein that are in the Loan Agreement shall have the meaning therein provided):

1. the Project has been completed in accordance with the Construction Contracts and the Operations and Maintenance (other than Punch List Items, the completion of which will not interfere with the commercial operation of the Project or cause it to operate at levels material different than those forming the basis of the projections in the Closing Pro Forma);
2. all tests required for Final Performance Acceptance have been successfully completed, except for the gross heat rate test, which required adjustment of the Closing Pro Forma;
3. the Project has commenced Commercial Operation under the Power Purchase and Sales Agreement, the Operations and Maintenance Agreement, and the Landfill Gas Purchase and Sale Agreement;
4. the Project appears to be capable of achieving the operating revenue as projected in the Closing Pro Forma (dated November 23, 2005), which incorporates a revised heat rate value estimated during the Performance Test;
5. all Approvals required to commission and operate the Project are in full force and effect; and
6. all necessary fuel and utility services are available for the Project.

Executed as of this 5th day of December, 2005.

SCS ENGINEERS, P.C.

By: 

Name: Gregory P. McCarron

Title: Vice President

ATTACHMENT C

EXHIBIT 1						
CommonWealth New Bedford Energy LLC						
Greater New Bedford LFG Utilization Project						
Dartmouth, Massachusetts						
Calculation of Verified Emission Reduction Credits in CO2 equivalent tons						
Key parameters used in calculations						
Parameter		ERT assumptions		CCX assumptions		
Methane oxidation efficiency electricity generation		99.9%		100.0%		
Methane oxidation efficiency LFG flaring		98.0%		100.0%		
Molare weight methane		16		16		
Pounds per metric ton		2,205		2,205		
Gas constant		385		385		
Global Warming Potential (GWP) methane		21		18.25		
Summary results						
	Unit	Value with ERT Formula		Value with CCX Formula		
Electricity generation						
Start date		1-Jul-07		1-Jul-07		
End date		31-Dec-07		31-Dec-07		
Methane delivered	scf	163,340,278		163,340,278		
VERs generated	metric tons CO2e	64,585		56,374		
Flaring						
Start date		1-Jul-07		1-Jul-07		
End date		31-Dec-07		31-Dec-07		
Methane delivered	scf	3,704,612		3,704,612		
Emission Reductions	metric tons CO2e	1,437		1,279		
Total						
Methane delivered	scf	167,044,890		167,044,890		
Emission Reductions	metric tons CO2e	66,022		57,653		
Baseline	metric tons CO2e	66,115				
Emissions	metric tons CO2e	94				

EXHIBIT 2																			
CommonWealth New Bedford Energy LLC																			
Calculation of Verified Emission Reduction in CO2 equivalent tons per the TGNB Protocol, 2005																			
Emission Reductions from methane oxidation during energy generation																			
Begin period - date	End period - date	Totalizer reading end period	Totalizer reading start period	Total in period	Methane content end period	Methane content start period	Methane delivered to engines	Methane delivered cumulative	Methane oxidation efficiency	Molar weight methane	Pounds to metric tons conversion	Gas constant	Mass methane destroyed in	Mass methane destroyed	Global warming potential methane	Emission reduction	Emission reduction cumulative	Baseline cumulative	Emissions cumulative
mm/dd/yy	mm/dd/yy	scf	scf	scf	%	%	scf	scf	%	Pounds per mole	Pounds per ton	scf per pound mole	metric tons	metric tons	tons CO2 equivalent per ton methane	CO2 equivalent metric tons	CO2 equivalent metric tons	CO2 equivalent metric tons	CO2 equivalent metric tons
	1-Jul-07						-	-	99.9%	16	2,205	385	0	0	21	-	-		
1-Jul-07	31-Jul-07	51,331,000	-	51,331,000	52.76%	52.76%	27,083,834	27,083,834	99.9%	16	2,205	385	510	510	21	10,709	10,709	10,720	11
1-Aug-07	31-Aug-07	101,631,000	51,331,000	50,300,000	52.86%	52.86%	26,586,092	53,669,926	99.9%	16	2,205	385	501	1011	21	10,512	21,221	21,242	21
1-Sep-07	30-Sep-07	154,407,144	101,631,000	52,776,144	52.22%	52.22%	27,562,063	81,231,989	99.9%	16	2,205	385	519	1529	21	10,898	32,119	32,151	32
1-Oct-07	31-Oct-07	209,998,144	154,407,144	55,591,000	52.29%	52.29%	29,068,874	110,300,862	99.9%	16	2,205	385	547	2077	21	11,494	43,613	43,656	44
1-Nov-07	30-Nov-07	257,304,116	209,998,144	47,305,972	52.55%	52.55%	24,860,028	135,160,890	99.9%	16	2,205	385	468	2545	21	9,830	53,442	53,496	53
1-Dec-07	31-Dec-07	310,360,662	257,304,116	53,056,546	53.11%	53.11%	28,179,388	163,340,278	99.9%	16	2,205	385	531	3075	21	11,142	64,585	64,649	65
							-	163,340,278	99.9%	16	2,205	385	0	3075	21	-	64,585		

EXHIBIT 3		CommonWealth New Bedford Energy LLC																
		Calculation of Verified Emission Reduction in CO2 equivalent tons per the CCX Formula																
CCX Formula Calculations		Emission Reductions from methane oxidation during energy generation																
Begin period - date	End period - date	Totalizer reading end period	Totalizer reading start period	Total in period	Methane content end period	Methane content start	Methane delivered to engines	Cumulative methane delivered to engines	Molecular weight of Methane	Conversion to tons	Gas Constant	Conversion Factor	Methane Destroyed in Engines	Global warming potential methane	CO2 equivalent	CO2 equivalent cumulative		
mm/dd/yy	mm/dd/yy	scf	scf	scf	%	%	scf	scf	g/mole	MT/g	mole/L	L/cf	Metric Tons	tons CO2 equivalent per ton methane (as allowed by CCX)	Metric tons	Metric tons		
	1-Jul-07																	
	1-Jul-07	31-Jul-07	51,331,000	-	51,331,000	52.8%	52.8%	27,083,834	27,083,834	16.04	1000000	0.041632	28.32	512.19	18.25	9,347.55	9,347.55	
	1-Aug-07	31-Aug-07	101,631,000	51,331,000	50,300,000	52.9%	52.9%	26,586,092	53,669,926	16.04	1000000	0.041632	28.32	502.78	18.25	9,175.76	18,523.30	
	1-Sep-07	30-Sep-07	154,407,144	101,631,000	52,776,144	52.2%	52.2%	27,562,063	81,231,989	16.04	1000000	0.041632	28.32	521.24	18.25	9,512.60	28,035.90	
	1-Oct-07	31-Oct-07	209,998,144	154,407,144	55,591,000	52.3%	52.3%	29,068,874	110,300,862	16.04	1000000	0.041632	28.32	549.73	18.25	10,032.65	38,068.55	
	1-Nov-07	30-Nov-07	257,304,116	209,998,144	47,305,972	52.6%	52.6%	24,860,028	135,160,890	16.04	1000000	0.041632	28.32	470.14	18.25	8,580.04	46,648.59	
	1-Dec-07	31-Dec-07	310,360,662	257,304,116	53,056,546	53.1%	53.1%	28,179,388	163,340,278	16.04	1000000	0.041632	28.32	532.91	18.25	9,725.66	56,374.25	
														3,089.00				

EXHIBIT 4																			
CommonWealth New Bedford Energy LLC																			
Calculation of Verified Emission Reduction in CO2 equivalent tons per the TGNB Protocol, 2005																			
Emission Reductions from methane oxidation from LFG flaring																			
Begin period - date	End period - date	Totalizer reading end period	Totalizer reading start period	Total in period	Methane content end period	Methane content start period	Methane delivered to flare	Methane delivered cumulative	Flare efficiency	Molar weight methane	Pounds to metric tons conversion	Gas constant	Mass methane destroyed in the period	Mass methane destroyed cumulative	Global warming potential methane	Emission reduction	Emission reduction cumulative	Baseline cumulative	Emissions cumulative
mm/dd/yy	mm/dd/yy	scf	scf	scf	%	%	scf	scf	%	Pounds per mole	Pounds per ton	scf per pound mole	metric tons	metric tons	tons CO2 equivalent per ton methane	CO2 equivalent tons	CO2 equivalent tons	CO2 equivalent metric tons	CO2 equivalent metric tons
	1-Jul-07						-	-	98.0%	16	2,205	385	0	0	21	-	-		
1-Jul-07	31-Jul-07	-	-	-	0.0%	0.0%	-	-	98.0%	16	2,205	385	0	0	21	-	-	-	-
1-Aug-07	31-Aug-07	1,730,000	-	1,730,000	52.5%	52.5%	909,091	909,091	98.0%	16	2,205	385	17	17	21	353	353	360	7
1-Sep-07	30-Sep-07	2,300,342	1,730,000	570,342	52.0%	52.0%	296,443	1,205,534	98.0%	16	2,205	385	5	22	21	115	468	477	10
1-Oct-07	31-Oct-07	2,300,342	2,300,342	-			-	1,205,534	98.0%	16	2,205	385	0	22	21	-	468	477	10
1-Nov-07	30-Nov-07	7,055,222	2,300,342	4,754,880	52.6%	52.6%	2,499,078	3,704,612	98.0%	16	2,205	385	46	68	21	969	1,437	1,466	29
1-Dec-07	31-Dec-07	7,055,222	7,055,222	-	0.0%	0.0%	-	3,704,612	98.0%	16	2,205	385	0	68	21	-	1,437	1,466	29
							-	3,704,612	98.0%	16	2,205	385	0	68	21	-	1,437		

EXHIBIT 5		Commonwealth New Bedford Energy LLC																
		Calculation of Verified Emission Reduction in CO2 equivalent tons per the CCX Formula																
CCX Formula Calculations		Emission Reductions from methane oxidation from LFG flaring																
Begin period date	End period date	Totalizer reading end period	Totalizer reading start period	Total in period	Methane content end period	Methane content start period	Methane delivered to flare	Cumulative methane delivered to engines	Molecular weight of Methane	Conversion to tons	Gas Constant	Conversion Factor	Methane Destroyed in Engines	Global warming potential methane	CO2 equivalent	CO2 equivalent cumulative		
mm/dd/yy	mm/dd/yy	scf	scf	scf	%	%	scf	scf	g/mole	MT/g	mole/L	L/cf	Metric Tons	tons CO2 equivalent per ton methane (as allowed by CCX)	Metric tons	Metric tons		
	1-Jul-07																	
	1-Jul-07	31-Jul-07	-	-	-	0.0%	0.0%	-	-	16.04	1000000	0.041631973	28.32	-	18.25	-		
	1-Aug-07	31-Aug-07	1,730,000	-	1,730,000	52.5%	52.5%	909,091	909,091	16.04	1000000	0.041631973	28.32	17.19	18.25	313.76		
	1-Sep-07	30-Sep-07	2,300,342	1,730,000	570,342	52.0%	52.0%	296,443	1,205,534	16.04	1000000	0.041631973	28.32	5.61	18.25	102.31		
	1-Oct-07	31-Oct-07	2,300,342	2,300,342	-	0.0%	0.0%	-	1,205,534	16.04	1000000	0.041631973	28.32	-	18.25	-		
	1-Nov-07	30-Nov-07	7,055,222	2,300,342	4,754,880	52.6%	52.6%	2,499,078	3,704,612	16.04	1000000	0.041631973	28.32	47.26	18.25	862.52		
	1-Dec-07	31-Dec-07	7,055,222	7,055,222	-	0.0%	0.0%	-	3,704,612	16.04	1000000	0.041631973	28.32	-	18.25	-		
													70.06					