



DET NORSKE VERITAS

CLIMATE ACTION RESERVE
VERIFICATION REPORT

Report for:
TERRA NITROGEN, LIMITED PARTNERSHIP
CAR 766

DNV report number
2011-9642



VERIFICATION REPORT

Date of first issue: 10 October, 2011		Project No.: PRJC-315625-2011-CCS-USA	
Approved by: Miguel Rescalvo Regional Manager Americas		Organizational unit: Sustainability and Innovation Climate Change and Environmental Services	
Client: Terra Nitrogen, Limited Partnership		Client ref.: Jim Schellhorn	
Summary: Det Norske Veritas (U.S.A.), Inc (DNV) has performed the verification of the GHG emission reductions achieved by the project “<i>Terra Verdigris #2</i>” project for the period of 14 December, 2010 to 18 April, 2011. In DNV’s opinion, the GHG emission reductions reported to the Climate Action Reserve (CAR) are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved CAR “Nitric Acid Production Project Protocol Project Protocol Version 1.0: Reducing Nitrous Oxide from Process Gas Emissions” and the supporting documentation. Det Norske Veritas (U.S.A.), Inc. is able to certify that the emission reductions from the “<i>Terra Verdigris #2</i>” project during the period 14 December, 2010 to 18 April, 2011 equate to 257 910 tCO₂e.			
Report No.: 2011-9642	Subject group: Environment	Indexing terms:	
Report title:		Key words:	Service:
Climate Action Reserve Verification Report for the Terra Industries Inc., Terra Verdigris #2 project.		Emission reductions Climate Action Reserve	Verification Market sector: Fertilizer Production
Work carried out by: David DeVooght Shruthi Bachamanda		☐ No distribution without permission from the client or responsible organisational unit ☐ Free distribution within DNV after 3 years ☐ Strictly confidential ☒ Unrestricted distribution	
Work reviewed by: Weidong Yang			
Date of this revision: 14 November, 2011	Revision No: 02		
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ABBREVIATIONS

AOR	Ammonia Oxidation Reactor
AIFR	Ammonia to Air Ratio
CAR	Climate Action Reserve
CDM	Clean Development Mechanism
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulations
CH ₄	Methane
CI	Confidence Interval
COI	Conflict of Interest
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
CRTs	Climate Reserve Tonnes
DNV	Det Norske Veritas
EU	European Union
GHG	Greenhouse Gas(es)
GWP	Global Warming Potential
HNO ₃	Nitric Acid
NH ₃	Ammonia
NAP	Nitric Acid Plant



VERIFICATION REPORT

NAPPP 1.0 Nitric Acid Production Project Protocol Version 1.0

N₂O Nitrous Oxide

OH Operating Hours

OP Oxidation Pressure

OT Oxidation Temperature

POCs Permitted Operating Conditions

QA/QC Quality Assurance & Quality Control

RATA Relative Accuracy Audit Test

t Metric Tonnes

UAN Urea Ammonia Nitrate



1. INTRODUCTION

Det Norske Veritas (U.S.A.), Inc. (DNV) has been contracted by Terra Nitrogen, Limited Partnership (Terra) to verify the greenhouse gas (GHG) emission reductions generated by the Terra Verdigris #2 project (Verdigris Project) for the period 14 December, 2010 - 18 April, 2011. The verification was completed as required in the Climate Action Reserve (CAR) Verification Program Manual, Version 2.0. This report contains the findings from the verification and a statement for the verified GHG emission reductions.

This is the third verification period for the project. The first reporting period was from 22 October, 2008 – 1 March, 2010, the second period was 02 March, 2010 – 14 December, 2010. DNV served as the verifier for both previous verification periods.

1.1 *Verification Objective*

Verification is the process through which a verification body assesses a project developer's GHG reduction assertions against verification criteria and standards that are defined by the CAR GHG program. The purpose of verification is to provide an independent third-party review of project data and information being submitted to the CAR, to ensure that the project is eligible as defined in the relevant project reporting protocols and that the reported GHG emission reductions meet the appropriate one percent (1%) materiality threshold.

The CAR requires third-party verification of all GHG projects, as specified in each project protocol. Climate Reserve Tonnes (CRTs) are issued for voluntary emission reductions only after a Verification Report and a Verification Opinion attesting to their accuracy have been submitted by the verifier and accepted by the CAR.

The objective of this verification was to verify that the voluntary emission reductions (carbon dioxide equivalents (CO₂e)) reported for the Verdigris Project for the period from 14 December, 2010 - 18 April, 2011 are real, verifiable, permanent and owned unambiguously by Terra Nitrogen, Limited Partnership.

1.2 *Verification Scope and Criteria*

The scope of the verification includes:

- Ensuring the project remains eligible according to the specific eligibility rules in the CAR's Nitric Acid Production Project Protocol Version 1.0 (NAPPP 1.0).¹
- Ensuring that the project boundary has been clearly defined and that the project emission sources in the project activity have been identified and monitored as per the NAPPP 1.0.



- Reviewing GHG management systems and estimation methodologies.
- Verifying the emission estimates through a site visit, an in-depth review of source data and recalculation of a sample of GHG emission reduction estimates to ensure that the reported GHG reductions are within the 1% materiality threshold and calculated in line with the CAR's NAPPP 1.0 protocol.

According to the CAR, the criteria to be applied during this verification include those contained in the following documents:

- CAR Nitric Acid Production Project Protocol Project Protocol Version 1.0: Reducing Nitrous Oxide from Process Gas Emissions.¹
- CAR Nitric Acid Production Project Protocol Errata and Clarifications.²
- CAR Program Manual.³
- CAR Verification Program Manual.⁴
- ISO 14064-3:2006.⁵

1.3 Level of Assurance and Materiality Assessment

During the verification, DNV has focused on providing a reasonable level of assurance that:

- The GHG emission reduction calculation methodology used is appropriate and correctly applied.
- The GHG emission reductions have been monitored, calculated and reported within the 1% materiality criteria.

2. PROJECT INFORMATION

2.1 Project Background

The Verdigris Project is located in Claremore, OK and is contained within Terra's Verdigris operating facility. Terra's Verdigris facility consists of two identical operating areas, Area #1 and Area #2, both of which produce anhydrous ammonia and urea ammonia nitrate (UAN). The Area # 1 UAN and ammonia plants were constructed in 1975 and the Area #2 UAN and ammonia plants were constructed in 1978. These two facilities combined produce 3 000 tonnes per day of ammonia (NH₃) and 2 000 tonnes per day of nitric acid.

Both facilities rely upon the catalytic oxidation of ammonia to produce nitric acid (HNO₃) as an intermediary product. Subsequently, the potent GHG nitrous oxide (N₂O) is directly released to the atmosphere as a waste by-product. The Verdigris Project is designed to reduce the release of N₂O during the HNO₃ production process in a nitric



acid plant (NAP) through the installation of a secondary catalyst within the ammonia oxidization reactor (AOR) contained in Area #2.

2.2 Project Activities

In 2008, Terra successfully installed a continuous emissions monitoring system (CEMS) to monitor N₂O concentration and flow of the flue gas exiting the Area #2 Plant.⁶ Subsequent to installation of the CEMS, Terra implemented and completed a baseline monitoring campaign between 30 June, 2008 and 20 October, 2008. On 21 October, 2008, Terra installed a secondary catalyst system below the gauze section of the AOR of the Area #2 plant.⁷ The following day, Terra began operating and monitoring the Verdigris project.

2.3 Project Ownership and Involved Parties

The Verdigris Project is operated by Terra Nitrogen, Limited Partnership which is a wholly owned subsidiary of Terra Industries, Inc. Ownership of the Verdigris Project and any emission reductions generated are retained by Terra Nitrogen, Limited Partnership.^{8,14,15}

DNV reviewed multiple regulatory-related documents (water and air permits) filed with the State of Oklahoma and receipts for project-related equipment and services, which confirm that the Terra Verdigris Plant is operated by Terra Nitrogen, Limited Partnership and that Terra Nitrogen, Limited Partnership is legally responsible for the facility.^{14,15} DNV subsequently confirmed that all documents submitted to the CAR contain the Terra Nitrogen, Limited Partnership name, including the Attestation of Title for credit ownership.⁹ Based upon these documents, it is DNV's opinion that emission reductions generated by the Verdigris project are unambiguously owned by Terra Nitrogen, Limited Partnership.

3. VERIFICATION ACTIVITIES

DNV has undertaken verification activities and compiled the verification team and tasks based on the complexity of Terra's GHG emission reductions and the underlying data supporting them. The verification team and process are summarized below and in Table 1.

Verification Team	
David DeVooght	Lead Verifier
Weidong Yang	Senior Internal Reviewer
Shruthi Bachamanda	Project Manager

**Table 1: Verification Activities**

Task	Activities	Completion Data
1	Conflict of Interest form approved by CAR.	26 July, 2011.
2	Verification kick-off meeting.	24 June, 2010.
3	Desk review.	18 – 29 July, 2011.
4	Site visit.	02 August, 2011.
5	Senior internal review.	22 September, 2011.
7	Submission of verification report to Project Developer.	12 October, 2011.
8	Verification opinion uploaded to CAR project site.	18 October, 2011.

3.1 Desk Review

DNV assessed the documents provided by the project developer, including the project monitoring plan GHG emission reductions spreadsheets, site design documentation and legal documents.^{10,11,12,13,14,15,16,17,18} Initial risk areas related to the GHG emission reduction estimates were identified through the document review. The on-site visit agenda was prepared according to items noted during the desk review.

3.2 Site Visit

On 02 August, 2011, DNV performed a site visit at Terra's Verdigris Plant in Claremore, OK. During the site visit, DNV reviewed records and interviewed staff members, and was able to verify the project facility operation, including the monitoring practices related to the GHG emission reduction estimates. DNV conducted a walk-through survey of the Verdigris Area Plant #2 and was able to confirm that the continued implementation of the project is in accordance with the initial project Monitoring Plan.¹⁹

4. VERIFICATION FINDINGS

4.1 Summary

DNV was able to verify that the GHG emission reductions reported for the Verdigris Project are fairly stated. Some clarification requests were identified during the verification. Responses were provided by Terra to the satisfaction of DNV.

4.2 Project Definition

Chapter 2.2 of the NAPPP 1.0 defines a GHG reduction project as the installation of a N₂O abatement technology at a single NAP that results in the reduction of N₂O emissions that otherwise would have been vented to the atmosphere. Additionally, Chapter 2.2 of the NAPPP 1.0 establishes four criteria for the disqualification of projects that operate N₂O abatement projects. DNV verified that these four criteria do not apply to the



Verdigris Project and therefore, the project meets the project definition defined in the NAPPP 1.0 for the period of 14 December, 2010 - 18 April, 2011.

4.3 Project Eligibility

Chapter 3 of the NAPPP 1.0 establishes that a project must satisfy four eligibility rules to meet the definition of a GHG emission reduction project. DNV verified that the Verdigris project is in conformance with these four eligibility requirements for the reporting period of 14 December, 2010 - 18 April, 2011.

4.3.1 Eligibility Rule I – Project Location

On 2 August, 2011, a qualified DNV lead verifier conducted a site visit at the Terra Verdigris facility in Claremore, OK. DNV verified that the Verdigris Project for the verification period remained in operation at Plant #2 of the Terra Verdigris facility.

4.3.2 Eligibility Rule II – Project Operation Start Date

During the first verification period, 22 October, 2008 – 1 March, 2010, DNV verified the Verdigris project's conformance with this eligibility rule by confirming installation of the secondary catalyst on 21 October, 2008 and confirming that the project was submitted to the CAR on 09 February, 2010.²⁰

The submittal of the project on 09 February, 2010 complies with the CAR requirement that projects operating before the adoption of the NAPPP 1.0 submit within 12 months of the effective date (02 December, 2009). Installation of the secondary catalyst on 21 October, 2008 demonstrates that the project began operations within the 24 months before the effective date of the NAPPP 1.0 (02 December, 2007).

4.3.3 Eligibility Rule III – Project Additionality

The Performance Standard Test

During the first verification period, 22 October, 2008 – 1 March, 2010, DNV confirmed that on 21 October, 2008, Terra installed a secondary N₂O abatement catalyst within the AOR of Plant #2 in the Verdigris facility. Installation of the secondary catalyst within the AOR demonstrates compliance with the performance standard test.

The Legal Requirement Test

DNV verified the project's conformance with this eligibility rule as detailed below.

- Verified the Verdigris Project's conformance with this eligibility rule by confirming through an on-site discussion with the Environmental Health and Safety Director that Terra had implemented the procedures described in the Monitoring Plan to ensure compliance with the Legal Requirement Test.^{10,21}



- Confirmed that for the verification period Terra submitted an Attestation of Voluntary Implementation to the CAR, which further demonstrates conformance with the requirement,²²
- DNV monitors regulatory issues related to the implementation of emission reduction projects on a regional and national level. DNV is not aware of any regional or national regulatory requirements mandating the implementation of N₂O emission reduction projects at nitric acid facilities. Therefore, DNV can confirm that the Verdigris Project is not mandated to install N₂O reduction technology.

4.3.4 Eligibility Rule IV – Regulatory Compliance

DNV verified the Verdigris Project's conformance with this eligibility rule by confirming Terra's submission to the CAR of a signed Attestation of Regulatory Compliance.²³ Additionally, DNV reviewed Terra's operating permits and safety permits relevant to the project and confirmed that the Verdigris facility met all applicable state and local regulations.^{14,15,24,25,26} DNV also confirmed with Terra staff that monitoring mechanisms are instituted within the plant to manage continued compliance.²¹

4.4 Monitoring Plan

The Verdigris Project Monitoring Plan is in accordance with the NAPPP 1.0 and allows for the accurate measurement of actual GHG emissions reductions.¹⁰

4.4.1 Monitoring Data

It must be noted that the Verdigris facility's verification periods have an overlap in reporting of a single day. The previous verification period ended on the 14 December, 2010, the same day the verification period began for this report. The overlap is due to the completion of the gauze change in a single day. Terra completed the previous campaign (Project Campaign 5) at 3:00 a.m. which fell within the previous verification period. Terra began Project Campaign 6 on the same day at 9:00 p.m., which accounts for the overlap in project reporting. **Additionally, it must be noted that the start date for the verification period listed in the CAR web-site is 15 December, 2010. This is due to software design constraints.**

DNV can confirm the necessary data needed to estimate GHG emission reductions are included in the Monitoring Plan. GHG emission sources, HNO₃ production and operating parameters were measured for the project campaign period. DNV confirms that monitoring mechanisms and the monitoring frequency of these parameters are in accordance with the requirements of the NAPPP 1.0. These data are shown in Tables 2 and 3.



Table 2: Periods of Project Monitoring and HNO₃ Production

Project Period	Dates	HNO₃ Production (tonnes)
Project Campaign 6	14 December, 2010 (9:00 p.m.) – 18 April, 2011	117 676

Table 3: Monitored Parameters for Project Campaigns

Parameter	Metering Device	Calibration and QA/QC Procedures
HNO ₃	Micro – motion flow meter	1. Checked for proper operation quarterly.²⁷ 2. Successfully verified for proper operation 14 December, 2010.²⁸ 3. Successfully verified for proper operation 21 February, 2011.²⁹ 4. Successfully verified for proper operation 02 June, 2011.³⁰
OH	Honeywell DCS	1. N/A – Plant operating system does not require calibration.
OT	Thermocouple	1. Replaced during each gauze change.³¹ 2. Successfully verified for proper operation 26 January, 2011.³²
OP	Converter Pressure Transmitter – ABB Kent Taylor	1. Correct functioning of instrument is continuously monitored and verified during plant operation. 2. Successfully calibrated 14 March, 2011.³³
AIFR	Air Flow Transmitter – Honeywell SMV3000 NH ₃ Flow Transmitter – Honeywell SMV 3000	1. Weekly laboratory tests are conducted to determine if the NH₃ flow transmitter is functioning correctly.³⁴ 2. Adjusting transmitters during operation of the plant is not feasible. Therefore, calibration work is not completed at set intervals. If it is determined that the transmitters are malfunctioning, they are adjusted during a plant shutdown. 3. Field verifications were conducted on 26 January, 2011 for both the air flow and NH₃ transmitters.^{35,36}
NC _{SG}	ABB Gas Analyzer AO2000 Series	1. An annual Relative Accuracy Audit Test (RATA) was conducted to ensure that the CEMS system was operating and recording correctly.^{17,18} 2. Daily calibration test including zero and span check for N₂O concentration.¹⁶ 3. Conducted quarterly cylinder gas audits.³⁷ 4. Stack flow meter successfully calibrated 15 March, 2011.^{38,39,40} 5. N₂O concentration meter successfully calibrated 07 January, 2011.⁴¹
V _{SG}		



Continuous Emissions Monitoring System (CEMS) Quality Assurance and Control (QA/QC)

In accordance with the requirements of the NAPP 1.0, DNV must verify that Terra operated the CEMS in accordance with the requirements of 40 CFR Part 60. The results of this review are as follows:

- DNV can verify that on 20 May, 2010 Cetcon, a third-party stack testing company, conducted a RATA in accordance with the procedures of 40 CFR Part 60. The State of Oklahoma does not require accreditation of third party stack gas testing companies. However, DNV was able to confirm that Cetcon is accredited by the State of Louisiana.⁴² Additionally, DNV confirmed the lead Cetcon contractor is accredited by the Source Evaluation Society, a stack testing industry group that certifies individuals.⁴³
- DNV reviewed the RATA results and can confirm that the results indicate the CEMS operates within the allowable limits of 40 CFR Part 60 for stack gas flow and N₂O concentration.^{44,45}
- DNV reviewed the results of the daily CEMS calibration and can confirm that the system was successfully calibrated on a daily basis during the verification period.¹⁶ Additionally, DNV reviewed sample cylinder gas certification results provided by the cylinder gas retailer and can confirm that the reference gas values listed in the daily calibration tracking file match those found on cylinder gas certificates.^{46,47}
- DNV reviewed the results of the quarterly stack flow meter linearity check (calibrations) and can confirm the device was operating correctly.^{38,39,40}
- DNV reviewed the results of the second quarter 2011 cylinder gas audit and can confirm that the CEMS system was operating in the allowable range.⁴⁸

QA/QC for non-CEMS Related Equipment

All of the necessary QA/QC procedures to ensure the correct measurement, calculation and reporting of emissions reductions are properly defined for each parameter and have been clearly documented in the Monitoring Plan. These include:

- Organization and responsibility.
- Data management and record keeping.
- Operations and maintenance.
- Regulatory compliance and violation.

4.4.2 The GHG Assessment Boundary

The GHG assessment boundary for the Verdigris Project is limited to N₂O released as a reaction by-product. DNV confirms N₂O released as a by-product in the baseline campaign and the project campaigns has been fully accounted for.

4.4.3 GHG Emission Reduction Calculations

Emission Reduction Calculation Equation

Equation 5.1 of the NAPPP 1.0 is properly applied for the GHG emission reduction calculations of the Verdigris Project as shown in Table 4 below.¹³

Table 4: Application of Equation 5.1 with Properly Selected Parameters

Parameter	Campaign 6	Units
ER	257 910	t CO ₂ e
EF _{BL}	0.00960	t N ₂ O/t HNO ₃
EF _P	0.00253	t N ₂ O/t HNO ₃
HNO _{3ER}	117 676	t HNO ₃
GWP _{N₂O}	310	t CO ₂ e/tN ₂ O

Baseline Equations

Equations 5.2 and 5.3 of the NAPPP 1.0 are properly applied for the GHG emission reduction calculations of the Verdigris Project, as shown in Tables 5 and 6 below.⁴⁹

Table 5: Application of Equation 5.2 with Properly Selected Parameter Values

Parameter	Value (metric tonnes (t))	Unit (metric tonnes (t))
EF _{BL}	0.00960	t N ₂ O/t HNO ₃
BE _{BC}	1 099	t N ₂ O
HNO _{3BC}	114 427	t HNO ₃

Table 6: Application of Equation 5.3 with Properly Selected Parameter Values

Parameter	Value	Unit
BE _{BC}	1 099	t N ₂ O
V _{SG BC}	118 503	m ³ /hour
NC _{SG BC}	3 092	mgN ₂ O/ m ³
OH _{BC}	2 999	Hours

Campaign Equations

Equations 5.4 and 5.5 of the NAPPP 1.0 are properly applied for the GHG emission reduction calculations of the Verdigris Project, as shown in Tables 7 and 8 below.¹³

Table 7: Application of Equation 5.4 with Properly Selected Parameter Values

Parameter	Project Campaign 6	Unit
PE _n	297.23	t N ₂ O
V _{SGn}	128 024	m ³ /hour
NC _{SGn}	782	mgN ₂ O/ m ³
OH _n	2 970	hours

Table 8: Application of Equation 5.5 with Properly Selected Parameter Values

Parameter	Project Campaign 6	Unit
EF _n	0.00253	t N ₂ O/t HNO ₃
PE _n	297.23	t N ₂ O
HNO _{3n}	117 676	t HNO ₃

4.4.4 Other Calculations

HNO_{3MAX} and HNO_{3MAXSCALED}

For calculating *HNO_{3MAX}* and *HNO_{3MAXSCALED}*, the Verdigris Project has calculated and properly applied the requirements of the Nitric Acid Production Project Protocol Errata and Clarifications, specifically Clarification 3.² These data are shown in Table 9.

Table 9: HNO_{3MAXSCALED} Values for Project Emissions

Parameter	Project Campaign 6	Unit
HNO _{3MAXSCALED}	119 262	t HNO ₃

Statistical Comparison of Permitted Operating Conditions (POCs)



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In accordance with Section 5.1.2.1 of the NAPPP 1.0 and the Nitric Acid Production Project Protocol Errata and Clarifications, specifically Clarification 4, Terra conducted a statistical comparison of the average historical mean POCs, with the mean values developed from the baseline campaign and project campaigns for the following operating parameters:

- Oxidation temperature (OT).
- Oxidation pressure (OP).
- Ammonia to air ratio (AIFR).

DNV reviewed the statistical comparison and confirmed that the mean values for operating parameters for the project campaigns fall within the upper and lower bound of the 95% confidence interval (CI) for POCs that were developed from the Historical Operating Period data. Additionally, DNV reviewed the emission reduction files and can confirm that the periods that the NAP operated outside of the POCs for the campaign 6 were less than 50% of the duration for each campaign.¹³

Table 10 lists the descriptive statistics for POCs in the historical period.

Table 10: Descriptive Statistics for Historical Operating Period POCs

POCs	Statistical Parameters			
	Mean	Standard Deviation	95% CI Upper Bound	95% CI Lower Bound
T (°C)	916	61	1 035	796
P (Bar)	8.6	0.8	10.1	7.1
AIFR (%)	10.5	0.1	10.7	10.2

Table 11 lists operating parameter means for the project campaigns. DNV confirms that all values listed fall within the upper and lower bounds of the 95% CI for the mean POCs developed from the Historical Operating Period.

Table 11: Mean Values of Operating Parameters

Parameter	Project Campaign 6	Unit
T	918	°C
P	8.7	Bar
AIFR	10.3	%



4.5 Data Collection, Aggregation and Calculation

The data collection, aggregation and GHG emission reduction calculations have been planned properly and implemented effectively, as detailed below.

CEMS and Operating Conditions Data

N₂O concentration in the stack gas, stack gas flow rate, operating conditions and HNO₃ production data are continuously monitored and logged within the Verdigris Plant management system. Data is pulled from this system and forwarded to a contractor. The contractor incorporates the data into the Verdigris Project emission reduction calculation spreadsheet.

GHG Emission Reductions for the Period of 14 December, 2010 – 18 April, 2011

- The emissions reductions were calculated based on Equations 5.1, 5.2, 5.3, 5.4 and 5.5.
- The calculations were checked by a complete review of the project campaigns emission reduction file.¹³ The calculations were determined to be accurate and calculated in accordance with the NAPPP 1.0 requirements. Additionally, sampling of a one-month period found no material or immaterial errors.
- The verified GHG emission reductions for each campaign period are shown in Table 12.
- The verified GHG emission reductions for each vintage year (2010 and 2011) are shown in Table 13.

Table 12: GHG Emission Reductions for the Period of 14 December 2010 to 18 April, 2011 by Project Campaign.

Emission Parameters	Project Campaign 6
Baseline emissions (t CO ₂ e)	350 050
Project emissions (t CO ₂ e)	92 140
Emission reductions (t CO ₂ e)	257 910

Table 13: GHG Emission Reductions for the Period of 14 December 2010 to 18 April, 2011 by Vintage Year

Vintage Year	Emission Reductions
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	(t CO ₂ e)
2010	34 300
2011	223 610
Total	257 910

5. VERIFICATION OPINION STATEMENT

Det Norske Veritas (U.S.A.), Inc (DNV) has performed a verification of GHG emission reductions reported for the “Terra Verdigris #2” project managed by Terra Nitrogen, Limited Partnership for the period of 14 December, 2010 - 18 April, 2011.

In DNV’s opinion, the GHG emission reductions reported for the project are fairly stated and the project meets all the verification criteria of the Climate Action Reserve.

The GHG emission reductions were calculated correctly, using methods and data contained in the Nitric Acid Production Project Protocol: Reducing Nitrous Oxide from Process Gas Emissions, Version 1.0 and the Monitoring Plan provided.

DNV was able to verify that the emission reductions from the “Terra Verdigris #2” project managed by Terra Nitrogen, Limited Partnership for the period from 14 December, 2010 - 18 April, 2011 amount to 257 910 t CO₂e.

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