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NUTRIEN LTD.
SUWANNEE RIVER CHEMICALS
GAS LEAKAGE SURVEY
MAY 2020

May 2020

Nutrien Ltd.
Suwannee River Chemicals
Post Office Box 300
White Springs, Florida 32096-0300
ATTN: Mr. Ken Tut
Project Representative

ANNUAL NATURAL GAS LEAK SURVEY

A natural gas leakage survey was conducted for Nutrien Ltd., Suwannee River Chemicals, White Springs, Florida during the month of May 2020. An area including the entire gas distribution system, as represented by management, was surveyed for natural gas leaks.

There were no Grade I leaks, Grade II leaks or Grade III leaks detected during this survey. No leaks were detected on the following facilities:

METER –	0	REGULATOR –	0	RISER –	0	CUT OFF –	0
SERVICE –	0	SERVICE TAP –	0	VALVE –	0	MAIN –	0

Any leak detected will be classified according to the criteria on the following pages.

Leak Classifications – Grade I

DEFINITION:

Grade I leaks represent an existing or probable hazard to persons or property, and requires immediate repair or continuous action until the conditions are no longer hazardous.

ACTION CRITERIA:

Grade I leaks require prompt action to protect life and property, and continuous action until the conditions are no longer hazardous. The prompt action in some instances may require one or more of the following:

- Implementation of City Emergency Plan (§192.615)
- Evacuating premises
- Blocking off an area
- Rerouting traffic
- Eliminating Sources of ignition
- Venting the area
- Notifying police and fire departments
- Stopping the flow of gas by closing valves or other means

EXAMPLES:

1. Any leak which in the judgement of the operating personnel at the scene, is regarded as an immediate hazard.
2. Escaping gas that has ignited.
3. Any indication of gas which has migrated into or under a building, or into a tunnel.
4. Any reading at the outside wall of a building, or where gas would likely migrate to an outside wall of a building.
5. Any reading of 80% LEL, or greater, in a confined space.
6. Any reading of 80% LEL, or greater in small substructures (other than gas associated substructures) from which gas would likely migrate to the outside wall of a building.
7. Any leak that can be seen, heard or felt, and which is in a location that may endanger the general public or property.
8. Once repairs are completed and the gas has an opportunity to dissipate, a re-check of each leak repair is required. A gas detector instrument must be used for the re-check and date of re-check recorded, but no later than 6 months.

Leak Classifications – Grade II

DEFINITION:

Grade II leaks are not a threat to persons or property at the time of detection, but justifies scheduled repair based on potential future hazard.

ACTION CRITERIA:

Grade II leaks shall be repaired within 90 days from the date the leak was originally located, unless due to re-survey the leak was determined to be Grade 3 as defined in Leak Classifications – Grade III. In determining the time period for repair, the following criteria should be taken into consideration:

- Amount and migration of gas;
- Proximity of gas to buildings and subsurface structures;
- Extent of pavement;
- Soil type and conditions, such as moisture and natural venting.

Grade II leaks may vary greatly in degree of potential hazard. Some Grade II leaks, when evaluated by the above criteria, may justify scheduled repair within the next Five [5] working days, while others will justify repair within Thirty [30] days. During the working day on which the leak is discovered, these situations should be brought to the attention of the individual responsible for scheduling leak repair.

Once the repairs are completed and the gas has had an opportunity to dissipate, a re-check of each leak repair is required. A gas detector instrument must be used for the re-check and date of re -check recorded, but no later than 6 months.

Leak Classifications – Grade II - Continued

EXAMPLES:

Grade II leaks requiring action ahead of ground freezing or other adverse changes in venting conditions, such as any leak which, under frozen or other adverse soil conditions, would likely migrate to the outside wall of a building.

Leaks requiring action within Three [3] months include, but are not limited to:

- Any reading of 40% LEL, or greater under a sidewalk in a wall to wall paved area that has significant gas migration and does not qualify as a Grade I leak.
- Any reading of 100% LEL, or greater, under a street in a wall to wall paved area that has significant gas migration and does not qualify as a Grade I leak.
- Any reading less than 80% LEL in small substructures (other than gas associated substructures) from which gas would likely migrate creating a probable future hazard.
- Any reading between 20% LEL and 80% LEL in a confined space.
- Any reading on a pipeline operating at 30% SMYS, or greater, in a class Three [3] or Four [4] location, which does not qualify as a Grade I leak.
- Any reading of 80% LEL, or greater, in gas associated substructures.
- Any leak which, in the judgment of operating personnel at the scene, is of sufficient magnitude to justify scheduled repair.

Leak Classifications – Grade III

DEFINITION:

Grade III leaks are non-hazardous at the time of detection and can be reasonably expected to remain non-hazardous.

ACTION CRITERIA:

Above ground Grade III leaks shall be repaired within Ninety [90] days from the date the leak was originally located unless the leak is upgraded or does not produce a positive leak indication when a soap and water solution, or its equivalent, is applied on suspected locations at operating pressure. Grade III leaks that are underground shall be re-evaluated at least once every Six [6] months until repaired. The frequency of re-evaluation shall be determined by the location and magnitude of the leak.

Grade III leaks should be re-evaluated during the next scheduled survey, or within Six [6] months of the date reported, whichever occurs first, until the leak is re-graded or no longer results in a reading.

EXAMPLES:

Leaks requiring re-evaluation at periodic intervals include, but are not limited to:

- Any reading of less than 80% LEL in small gas associated substructures.
- Any reading under a street in areas without wall to wall paving where it is unlikely the gas could migrate to the outside wall of a building.
- Any reading of less than 20% LEL in a confined space.



LEAK SURVEY FINAL REPORT

Purchase Order Number: 2116058202

Customer: Nutrien

Location: White Springs, FL (SRC)

Date Survey Started: May 5, 2020

Date Survey Completed: May 5, 2020

Total Number of Survey Days: One (1)

Total Number of Survey Hours: Eight (8)

Type of Gas: Natural Other _____

Type of Survey: Walking Electronic Detection

Miles of Mains Inspected: .5

Services Inspected: 2 **Risers:** 0

Number and Grade of Surface Leaks Located: (1) 0 (2) 0 (3) 0 Total 0

Number and Grade of Sub-Surface Leaks Located: (1) 0 (2) 0 (3) 0 Total 0

Area of Survey: Commercial Residential School Public Buildings Transmission

Type of Survey: Electronic Soap Test Probe Bar Other _____

Parts of System Checked: Transmission Mains Services Meter Sets

Type of System: Cast Iron Steel Plastic Copper Other _____

Soil Types: Clay Loam Sand Rock

Soil Conditions: Wet Dry Normal

Weather Conditions: Rain Wind Ice Normal

Customer Provided: Transportation Guide Maps Other _____

City Services Provided: Transportation Equipment: Bascom-Turner Gas Rover

Additional Comments:

Location and identification information on Commercial addresses are written to the best of my knowledge as no guide was provided for this survey.

Mitch Whitfield
City Services, Inc.

City Services, Inc. (CSI)
 User Task Status Report

Run by: Bobby Boyd
 Run on: 3/26/2018

Whitfield, Mitch

TASK NAME

0141 - Visual Inspection For Atmospheric Corrosion

Qualification Type

Evaluations

ENERGY worldnet, Inc. - Performance
 EWN-PE-Visual Inspection of Atmospheric Coating (7.1, 0141) - 2646

ENERGY worldnet, Inc. - Written

EWN-CBT-AOC Failure to Follow Procedures - 2207

ENERGY worldnet, Inc. - Written

EWN-CBT-AOC Insufficient Cathodic Protection - 2212

ENERGY worldnet, Inc. - Written

EWN-CBT-Atmospheric Corrosion (7.1, 0141) - 2223

0151 - Visual Inspection of Buried Pipe and Components When Exposed

Qualification Type

Evaluations

ENERGY worldnet, Inc. - Performance
 EWN-PE-Inspect for External Corrosion on Buried or Submerged Pipe (5.2) - 2643

ENERGY worldnet, Inc. - Performance

EWN-PE-Inspect the Condition of External Coating on Buried or Submerged Pipe (5.3, 0151) - 2644

ENERGY worldnet, Inc. - Written

EWN-CBT-AOC Failure to Follow Procedures - 2207

STATUS

Qualified

Evaluation Date
Expiration Date
Verified

2/20/2018 2/20/2021 EV

1/24/2018 1/24/2021 EV

1/24/2018 1/24/2021 EV

2/16/2018 2/16/2021 EV

Evaluation Date
Expiration Date
Verified

2/20/2018 2/20/2021 EV

2/20/2018 2/20/2021 EV

1/24/2018 1/24/2021 EV

ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Inoperability of a Pipeline Component - 2211	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-Corrosion Control Fundamentals (5.3, 9.2, 1021, 0031, 0091) - 2355	1/25/2018	1/25/2021	EV
0161 - Visual Inspection for Internal Corrosion				
Qualification Type	Evaluations	Evaluation Date	Expiration Date	Qualified Verified
ENERGY worldnet, Inc. - Performance	EWN-PE-Inspect Internal Pipe Surfaces (12, 0161) - 2370	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Internal Corrosion (12) - 2213	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Inspect Internal Pipe Surface (12) - 2685	1/25/2018	1/25/2021	EV
0191 - Measure Atmospheric Corrosion				
Qualification Type	Evaluations	Evaluation Date	Expiration Date	Qualified Verified
ENERGY worldnet, Inc. - Performance	EWN-PE-Measure Corroded Area (8.3, 0191) - 2582	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Insufficient Cathodic Protection - 2212	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-Corrosion Control Fundamentals (5.3, 9.2, 1021, 0031, 0091) - 2355	1/25/2018	1/25/2021	EV
0201 - Visual Inspection of Installed Pipe and Components for Mechanical Damage				
Qualification Type	Evaluations	Evaluation Date	Expiration Date	Qualified Verified

ENERGY worldnet, Inc. - Performance	EWN-PE-Inspect for Physical Damage on Buried or Submerged pipe (0211) - 2642	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Inoperability of a Pipeline Component - 2211	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-AOC Pipeline Damage (L) - 2753	1/29/2018	1/29/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Inspect for Physical Damage on Buried or Submerged Pipe (5.1) - 8695	1/25/2018	1/25/2021	EV
0211 - Measure and Characterize Mechanical Damage on Installed Pipe and Components				
Qualification Type	Evaluations	Evaluation Date	Expiration Date	Verified
ENERGY worldnet, Inc. - Performance	EWN-PE-Inspect for Physical Damage on Buried or Submerged pipe (0211) - 2642	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-AOC Pipeline Damage (L) - 2753	1/29/2018	1/29/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Inspect for Physical Damage on Buried or Submerged Pipe (5.1) - 8695	1/25/2018	1/25/2021	EV
0591 - Leak Test at Operating Pressure				
Qualification Type	Evaluations	Evaluation Date	Expiration Date	Verified
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Report of Gas Odor/Liquid Release - 2216	1/24/2018	1/24/2021	EV

0991 - Coating Application and Repair• Brushed or Rolled

Qualified

Qualification Type	Evaluations	Evaluation Date	Expiration Date	Verified
ENERGY worldnet, Inc. - Performance	EWN-PE-Prepare Surface for Coating Using Hand and Power Tools (13.1) - 2543	2/7/2018	2/7/2021	EV
ENERGY worldnet, Inc. - Performance	EWN-PE-Apply Atmospheric Coating Using Hand Application Methods (7.5) - 2580	1/25/2018	1/25/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Insufficient Cathodic Protection - 2212	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-Atmospheric Corrosion (7.1, 0141) - 2223	2/16/2018	2/16/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Apply and Repair External Coating on Buried or Submerged Pipe (13) - 2665	2/23/2018	2/23/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Apply Atmospheric Coating Using Hand Application Methods (7.5) - 8723	2/23/2018	2/23/2021	EV

1241 - Outside Gas Leak Investigation

Verified

Qualification Type	Evaluations	Evaluation Date	Expiration Date	Verified
ENERGY worldnet, Inc. - Performance	EWN-PE-Leak Survey (1241, 1261) - 2283	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Performance	EWN-PE-Perform/Observe Leak Survey/Patrol - 2455	2/20/2018	2/20/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Flammable Gas Atmosphere - 2209	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Report of Gas	1/24/2018	1/24/2021	EV

Odor/Liquid Release - 2216

ENERGY worldnet, Inc. - Written	EWN-CBT-Leak Survey and Patrols (52.1, 52.2, 1241, 1261) - 2282	2/23/2018	2/23/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-Reporting Field Gas Leaks - 2325	2/23/2018	2/23/2021	Qualified
1261 - Walking Gas Leakage Survey		Evaluation Date	Expiration Date	Verified
Qualification Type	Evaluations			
ENERGY worldnet, Inc. - Performance	EWN-PE-Leak Survey (1241, 1261) - 2283	1/25/2018	1/25/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Flammable Gas Atmosphere - 2209	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-Leak Survey and Patrols (52.1, 52.2, 1241, 1261) - 2282	2/23/2018	2/23/2021	Qualified
1291 - Locate Underground Pipelines		Evaluation Date	Expiration Date	Verified
Qualification Type	Evaluations			
ENERGY worldnet, Inc. - Performance	EWN-PE-Locate Line (14.1, 1291) - 2548	1/25/2018	1/25/2021	EV
ENERGY worldnet, Inc. - Performance	EWN-PE-Reporting Protocols (15.2, 1311) - 2553	1/25/2018	1/25/2021	EV
ENERGY worldnet, Inc. - Performance	EWN-PE-Use of Probing Equipment (16.1) - 2554	1/25/2018	1/25/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Failure to Follow Procedures - 2207	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-CBT-AOC Report of Gas Odor/Liquid Release - 2216	1/24/2018	1/24/2021	EV
ENERGY worldnet, Inc. - Written	EWN-WE-Locate Pipeline (14.1) - 2688	2/23/2018	1/24/2021	Qualified



Last Calibration Data by Unit

Friday, May 15, 2020

8:26:17 AM

Page 1 of 1

[Exit Report](#)

Unit ID: 1

Serial Number: 1524-403568

Date Calibrated: 5/3/2020

User:

Time Calibrated (HH:MM): 18:31:00

Model Number: VGI-201

Block Check OK(Y/N): Y

Sensor	Calibration Gas	Before Calibration	After Calibration	Sensitivity	OK (Y/N)
LEL	50% LEL	50	50	1577	Y
CO	100 PPM				
GAS	Air / Cal Gas	100	100	877	Y
GAS	System Gas	100	100	3895	Y
OXYGEN	Air				
H2S	H2S				
PPM GAS	50% LEL			1092	Y

CITY SERVICES, INC.

2019 Drug Test Statistical Summary

City Services, Inc.
 Post Office Box 3217
 Thomasville, Georgia 31799

Contact Person: Jerry Allen
 Title: Office Manager
 Telephone: (229) 226-6569

Total Number of Employees in Organization:	6
Number of Employees in Test Pool:	
Full Time:	5
Temporary:	0
Part Time:	0
Others:	0

Summarized is the number of test, number of employees tested, and positive results for each category listed.

<u>Type of Test</u>	<u>Draws</u>	<u>Tested</u>	<u>Positive Results</u>	<u>Positive For:</u>
Pre-Employment:	0	0	0	N/A
Random:	4	3	0	N/A
Reasonable Cause:	0	0	0	N/A
Post-Accident	0	0	0	N/A
Post-Rehab	0	0	0	N/A

DOT drug tests are conducted only using urine specimens. The urine specimens are analyzed for the following drugs/metabolites:

- Marijuana metabolites/THC
- Cocaine metabolites
- Amphetamines
- Phencyclidine (PCP)
- Opioid Metabolites (i.e., codeine, 6-AM (heroin), morphine)
- Also, four Semi-Synthetic Opioids (i.e., oxycodone, oxymorphone, hydrocodone, hydromorphone)

Indicate positive results by number as follows:

Marijuana-1, Cocaine-2, Amphetamines-3, Phencyclidine-4, Opioid Metabolites-5, Semi-Synthetic Opioids - 6

Indicate test by number as follows:

Random-1, Post Accident-2, Reasonable Cause-3, Post-Rehab-4, Pre-employment-5

<u>Age</u>	<u>Sex</u>	<u>Test</u>	<u>Substance Found</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Report Prepared By: Jerry Allen
 Period Covered: 1/1/2019 – 12/31/2019

Date Submitted: 5/13/2020
 Distributed To: Nutrien Ltd., White Springs, Florida