

# Hartland Landfill – Landfill Gas Monitoring

## 2022 Report

Capital Regional District | Parks & Environmental Services, Environmental Protection



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## HARTLAND LANDFILL – LANDFILL GAS MONITORING 2022 REPORT

### EXECUTIVE SUMMARY

Hartland Landfill provides solid waste disposal services for the Capital Regional District (CRD). The landfill is a multi-purpose facility providing collection services for recyclable materials, household hazardous waste, items covered by product stewardship, and disposal of municipal solid waste (MSW) and controlled waste. The site operates pursuant to an operational certificate under the *Environmental Management Act*, issued by the BC Ministry of Environment and Climate Change Strategy (ENV); and follows an operating plan required under the operational certificate.

The landfill footprint (Phase 1 + Phase 2) occupies 42.9 Ha with an estimated 8 M tonnes of municipal solid waste in place in 2022. When the landfill reaches planned final filling elevations in Phase 2, it is estimated to contain approximately 18 M tonnes of municipal solid waste. This report fulfills annual reporting requirements set out in the BC *Operational Certificate 12659* and the BC *Landfill Gas Management Regulation*. Landfill gas (LFG) collection/management at Hartland (described below) includes collection and utilization infrastructure, generation modelling and monitoring (utilization, perimeter gas probes, hotspot monitoring and speciation).

LFG collection and/or management at Hartland includes the following components:

- **Gas collection infrastructure**, including cover systems, collection pipes, wells, and blowers to facilitate gas collection and utilization.
- **LFG utilization facility** that generates electricity for the BC Hydro grid.
- **LFG monitoring system**, including collection system, hotspot and subsurface monitoring programs.
- **Methane production and gas generation modelling** rates given landfill waste volumes and decomposition rates.

### GAS GENERATION, COLLECTION AND UTILIZATION

In 2022, the gas collection system consisted of 58 vertical wells, 86 horizontal wells, and 1 leachate horizontal gas well for a total of 145 wells. One non-productive well was removed from service, two horizontal wells were connected to the system and activated in completed lifts in Phase 2, Cell 3. The well field was balanced monthly in 2022, as recommended by the BC *Landfill Gas Management Facilities Design Guidelines*.

A fugitive emissions gas generation project was completed in 2020. The data were used to complete a comprehensive landfill gas mass balance for the site using three different landfill gas generation models. Report findings confirm that the current ENV model overestimates landfill gas generation and fugitive emissions at Hartland, while an alternative model (UBCi) more accurately estimates gas generation. Therefore, this model was used again in 2022, alongside the ENV model. Results of the UBCi model demonstrate a collection efficiency of 81%, whereas the ENV model reports 70% for the same period. According to the UBCi model (which is supported by empirical mass balance data), Hartland Landfill is meeting and exceeding the 75% collection efficiency requirement set out in the *Landfill Gas Management Regulation*.

**Table ES1 Modelled Methane Generation and Collection Efficiency 2022**

| Year | Modelled Annual Methane Generated ENV (tonnes/year) | Modelled Annual Methane Generated UBCi (tonnes/year) | Measured Annual Gas Capture (tonnes/year) | Collection Efficiency (%) ENV Model | Collection Efficiency (%) UBCi Model |
|------|-----------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------|--------------------------------------|
| 2022 | 8,325                                               | 7,283                                                | 5,864                                     | 70%                                 | 81%                                  |

**MONITORING**

Hartland Landfill has several monitoring programs to assess the effectiveness of the LFG collection infrastructure. The following summarizes the components of the program:

- 1. Collection and utilization system monitoring** to evaluate changes in gas quality over time and to document data for gas collection and gas utilization to assess collection efficiency and total emissions from the landfill.
- 2. Monitoring of subsurface perimeter and building foundation probes** to assess the potential for subsurface LFG migration at the eastern landfill boundary and at on-site buildings for compliance with BC *Landfill Criteria*, and for worker and public health and safety.
- 3. Surface emissions and hotspot monitoring** to verify the effectiveness of cover and the LFG collection system in order to identify health and safety risks associated with fugitive LFG emissions.
- 4. LFG Speciation** to assess the composition of gas, including volatile organic compounds, sulphur gases and typical LFGs, in order to calculate ambient dilution concentrations for health and safety, and infrastructure integrity purposes.

**COMPLIANCE SUMMARY**

Table ES2 has been prepared to summarize the results of LFG monitoring programs, whether the results comply with requirements, actions taken to address non-compliance, and recommendations.

**Table ES2 LFG Compliance Summary 2022**

| Program                              | Compliance Location                                          | Criteria                                                                                                                                                               | Findings                                                                                                             | Mitigation/Actions                                          | Recommendations                                                                                                  |
|--------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Perimeter Probe Monitoring           | Probes GP-1A, 1B, 2A, 2B, 3A, 3B, 11A, 11B, 12A and 12B      | Methane must not exceed 5% in subsurface soils ( <i>BC Landfill Criteria for Municipal Solid Waste &amp; BC Landfill Gas Management Facilities Design Guidelines</i> ) | No exceedances<br>Low risk of sub-surface gas migration to adjacent properties                                       | None                                                        | Continue quarterly monitoring.                                                                                   |
| Building Foundation Probe Monitoring | Probes GP-4A, 5A, 6A, 6B, 7A, 7B, 8A, 9A, 13A, 14A, 17A, 18A | Maximum 1% methane in any on-site facility ( <i>BC Landfill Criteria for Municipal Solid Waste &amp; BC Landfill Gas Management Facilities Design Guidelines</i> )     | No exceedances<br>Low risk of subsurface gas migration to adjacent building                                          | None                                                        | Continue quarterly monitoring.                                                                                   |
| Ambient Grid Monitoring              | N/A                                                          | 100 ppm total hydrocarbon (THC), as methane (CRD internal guideline)                                                                                                   | 11 grid locations >100 ppm<br>No cover system failures suspected in the closed area of Phase 1                       | Investigated hot spots and mitigated, where possible.       | Continue annual monitoring.                                                                                      |
| Hot Spot Monitoring                  | N/A                                                          | 1,000 ppm THC (CRD internal guideline)                                                                                                                                 | One new hot spot (z-points) >1,000 ppm<br>Currently 22 locations for hot spot investigation                          | Added new locations of hot spots to the monitoring program. | Continue annual monitoring.<br>Investigate mitigation options.                                                   |
| Well Field Monitoring and Balancing  | N/A                                                          | Monitor monthly.<br>Oxygen 2.5% - gas optimization and reduction of fire potential ( <i>BC Landfill Gas Management Facilities Design Guidelines</i> )                  | Monitoring completed monthly; Oxygen did not exceed 2.5%                                                             | None                                                        | Continue monthly monitoring at minimum.                                                                          |
| Gas Collection                       | N/A                                                          | 75% gas collection efficiency target by the end of 2016, as per <i>Landfill Gas Management Plan</i>                                                                    | Site specific model (UBCi) estimated collection efficiency at 81%. ENV model estimated collection efficiency at 70%. | <i>Landfill Gas Management Plan</i> submitted to ENV.       | Continue to implement the gas management plan and optimize methane and nitrogen, oxygen levels in the well field |



**HARTLAND LANDFILL – LANDFILL GAS MONITORING  
2022 REPORT**

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## HARTLAND LANDFILL – LANDFILL GAS MONITORING 2022 REPORT

### 1.0 INTRODUCTION

Hartland Landfill provides solid waste disposal services for the Capital Regional District (CRD). The landfill is a multi-purpose facility providing collection services for recyclable materials, household hazardous waste, extended producer responsibility products, salvageable items, as well as disposal services for municipal solid waste and controlled waste. Landfill operations are guided by the *Hartland Landfill Design, Operations and Closure Plan – Update*, the BC *Operational Certificate 12659* issued by the BC Ministry of Environment and Climate Change Strategy (ENV), and the CRD's *Solid Waste Management Plan*.

Landfill gas (LFG) is primarily composed of methane, carbon dioxide and nitrogen, with small amounts of water vapour, oxygen, and trace gases. Trace gases include hydrogen sulphide, ammonia, nitrous oxide, volatile organic compounds and chlorofluorocarbons. Risks associated with LFG include asphyxiation, flammability (between 5% and 15% methane by volume), toxicity, odour, and greenhouse gas (GHG) emissions.

The objective of an LFG collection system is to reduce GHGs through the destruction of collected methane, mitigate fugitive emissions, and reduce the potential for subsurface, lateral gas migration. Ongoing monitoring is conducted at the landfill to assess the effectiveness of these controls, and includes gas generation modelling, gas capture assessment, and ambient and subsurface monitoring.

This report is prepared to assess operational needs and performance, meet regulatory reporting requirements and to inform the public regarding LFG management at Hartland. This report meets the reporting requirements specified in the BC *Operational Certificate 12659* and the BC *Landfill Gas Management Regulation* for annual reporting of gas collection and management.

### 2.0 SITE DESCRIPTION

The Hartland Landfill is situated on 320 hectares within the District of Saanich. Mount Work Regional Park is located to the west, parkland and the Heal's Rifle Range lies to the north, residential properties lie to the east, and undeveloped CRD property is located to the south.

The climate in the area is classified as "Cool Mediterranean" due to warm, dry summers and cool, wet winters. Annual precipitation is around 800-1,000 mm per year. The site is surrounded by bedrock; discontinuous bedrock fractures have been identified.

The CRD took over operation of the landfill site in 1985. Prior to that, it was privately owned and operated. The landfill footprint (Phase 1 + Phase 2) occupies 42.9 Ha with an estimated 7.3 M tonnes of MSW in place as of the end of September 2021. The average annual disposal rate for the last five years is approximately 165,670 tonnes which comprises residential, commercial and industrial wastes.

The landfill has two operational areas: Phase 1 was operational between the 1950s and 1997 and has final cover. Phase 2 comprises the current active area of the landfill, which began in 1997. Phase 1 is unlined and covered with a combination geomembrane/clay cap. Phase 2 was constructed within a former lake basin (now referred to as the Phase 2 basin); it is partially lined and relies on hydraulic gradients to contain leachate. Development of the Hartland Landfill is guided conceptually by the cell development and filling plan, updated in 2022.

### 3.0 REGULATORY FRAMEWORK

There are a number of provincial and federal regulations that apply to LFG management, emissions management and reporting. Key regulations are listed below.

### 3.1 LFG Management Regulation

The BC *Landfill Gas Management Regulation* requires landfills that produce 1,000 tonnes of methane per year have a qualified professional prepare an LFG management plan. According to the regulation, the *Landfill Gas Management Plan* must be prepared in accordance with the BC *Landfill Gas Management Facilities Design Guidelines*, 2010 ('the Guidelines') and include:

- a description of existing or planned methods or maintenance practices and processes for LFG management on the site;
- a plan for installation, operation and maintenance of LFG management facilities (including contingencies for planned or emergency shutdowns); and
- recommendations for optimizing LFG collection to meet a 75% collection efficiency target four years after implementation.

The Guidelines specify a set of design and performance objectives/standards regarding LFG management and operations, including gas collection and composition; extraction and destruction infrastructure; and gas migration and assessment.

### 3.2 WorkSafeBC

Many of the compounds in LFG, particularly methane, hydrogen sulphide and individual volatile organic compounds, have worker exposure limits set out within WorkSafeBC regulations. The Hartland Landfill must comply with these limits.

### 3.3 BC Landfill Criteria for Municipal Solid Waste

The BC *Landfill Criteria for Municipal Solid Waste* (2016) stipulates compliance with the *Landfill Gas Management Regulation* and the Guidelines described above. As well, the landfill must be managed to ensure there is no public threat or nuisance/odour. Annual reporting and compliance review is a requirement under Hartland Landfill's *Operational Certificate 12659*. A full compliance report for all Operational Certificate requirements is provided in the 2022 Hartland Landfill Annual Operations Report.

## 4.0 HEALTH AND SAFETY

LFG is flammable, toxic and poses an asphyxiation risk to landfill employees and contractors on site. Specifically:

- LFG can accumulate in confined spaces or low-lying area with poor air circulation, which can pose an asphyxiation risk due to the displacement of oxygen.
- Both trace gases and major gas constituents can result in acute toxicity if exposure occurs at high enough concentrations.
- Trace gases, usually associated with sulphur compounds, can create odours.
- Methane is explosive at concentrations between 5 and 15%. It is also a GHG with 25 times the global warming potential of carbon dioxide.

There is also potential for gas to laterally migrate off site. When gas pressure builds up in the landfill, gas migrates via cracks, soil pores, and/or fractures to equalize with the surrounding atmosphere. This includes migrating through permeable cover systems or subsurface migration toward adjacent properties. The main objective of an LFG collection system is to mitigate the above risks and reduce the potential for subsurface, lateral gas migration. However, while lateral movement can be mitigated with LFG collection and control, there will still be fugitive LFG emissions on site. A number of factors influence this, such as atmospheric pressure, groundwater level, gas pressure in the refuse mass, and permeability of cover systems. Gas collection system operation and utilization is discussed in Sections 6.0 and 7.0, and monitoring programs are discussed in Section 9.0.

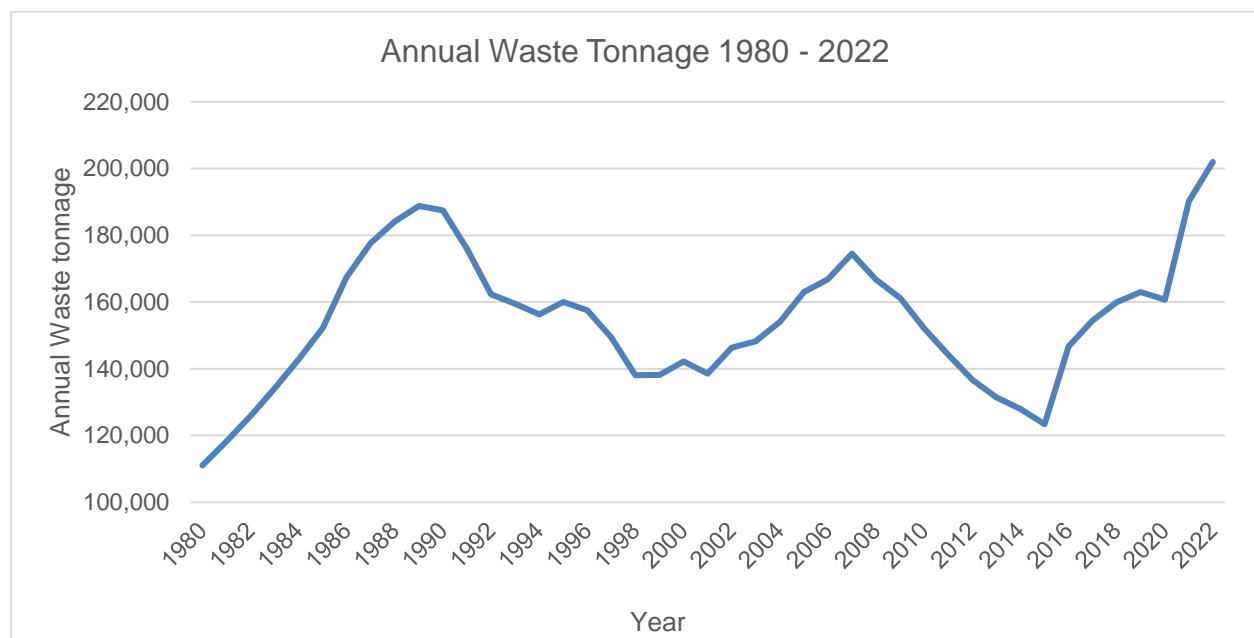
## 5.0 LFG GENERATION

Decomposition of refuse creates LFG; the composition and amount of gas generated varies based on factors, such as amount, type and age of waste, as well as environmental conditions, such as temperature and moisture content. LFG composition and generation rates are discussed in Sections 7.0 and 9.0.

Peak gas generation occurs during the first one to three years after disposal. Initially, decomposition of waste is an aerobic process and produces mainly carbon dioxide. As oxygen is depleted, the decomposition occurs under anaerobic conditions. The total waste input and waste composition affects overall gas generation rates. For clarity, it is important to note that gas production is the total amount of gas predicted to be produced by the landfill given waste composition, volume of existing waste in place and site-specific meteorological conditions.

### 5.1 Waste Quantity

The quantity of LFG production is dependent on the amount and type of waste received. In 2022, the Hartland Landfill received 201,981 tonnes of waste, which included 180,004 tonnes of general refuse, 17,832 tonnes of controlled waste and 4,145 tonnes of asbestos.



**Figure 1 Annual Waste Tonnages Received or Estimated for Hartland Landfill from 1980-2022**

### 5.2 Waste Composition

Waste composition is used to calculate methane generation rates in order to estimate overall LFG generation. Waste composition study results are included in Table 1 and with the gas generation data in Appendix A, including methane generation potential, a summary of waste sources and diversion, as required under the *BC Landfill Gas Management Regulation*.

The Waste composition study conducted by Tetrattech (2022) does not quantify controlled waste. Controlled waste is classified by the CRD as wastes that, due to environmental or health and safety considerations, require special handling. Controlled waste deposited at the site is measured by scale and classified by type. In the previous annual reports, controlled waste was assumed to be mostly composed of relatively inert material. For the 2022 report, controlled waste data was categorized as described below for three consecutive years (2020 through 2022).

For the purpose of this report, and on consultant's recommendation, the following assumptions were applied to categorize controlled waste decomposability:

- All asbestos and demolition wastes are relatively inert.
- Anything with a rock/sand nature or contaminated soil is relatively inert.
- Anything with unknown composition is categorized as Miscellaneous (50% moderately decomposable and 50% relatively inert).
- Waste sludge and pumping from sewage treatment are decomposable.

Controlled waste composition is attributed to each of the waste composition categories (relatively inert, moderately decomposable and decomposable waste) in the models. Table 1 indicates the waste composition used since 1980.

**Table 1 Waste Composition 1980 to Present; and Projection to 2027**

| Date Range   | Relatively Inert | Moderately Decomposable | Decomposable |
|--------------|------------------|-------------------------|--------------|
| 1980 to 1995 | 33.7%            | 24.9%                   | 41.4%        |
| 1996 to 2000 | 33.9%            | 40.5%                   | 25.6%        |
| 2001 to 2004 | 26.6%            | 39.6%                   | 33.8%        |
| 2005 to 2009 | 33.2%            | 37.0%                   | 29.9%        |
| 2010 to 2013 | 31.5%            | 39.1%                   | 29.4%        |
| 2014 to 2019 | 36.5%            | 41.3%                   | 22.2%        |
| 2020-2021    | 36.8%            | 42.1%                   | 21.1%        |
| 2022-2027    | 40.9%            | 42.4%                   | 16.7%        |

### 5.3 Gas Generation Modelling

LFG generation rates are estimated using the ENV model stipulated by the BC *Landfill Gas Management Regulation*. Additional modelling was completed in 2020 after a comprehensive landfill gas quantification project supported the use of the UBCi model as a more accurate representation of gas generation for Hartland Landfill. Details on modelling inputs and methodology for the ENV model and UBCi model and the landfill gas quantification project are included in Appendix A1 through A6.

**Table 2 Estimated Methane Generation by Year at Hartland Landfill**

| Year | Annual Methane Generation (tonnes/yr) UBCi model | Annual Methane Generation (tonnes/yr) ENV model |
|------|--------------------------------------------------|-------------------------------------------------|
| 2015 | 5,294                                            | 8,103                                           |
| 2016 | 4,923                                            | 8,038                                           |
| 2017 | 5,377                                            | 8,032                                           |
| 2018 | 5,060                                            | 8,056                                           |
| 2019 | 5,182                                            | 8,101                                           |
| 2020 | 5,289                                            | 8,157                                           |
| 2021 | 5,611                                            | 8,192                                           |
| 2022 | 5,865                                            | 8,325                                           |

## 6.0 LFG COLLECTION AND MONITORING INFRASTRUCTURE

Systems to control and monitor fugitive LFG emissions have been implemented at Hartland Landfill. The objective of these controls is to:

- protect employee and public health and safety
- prevent migration of gas off-property or into on-site buildings
- reduce GHG
- capture gas for energy recovery
- control odour

The original LFG management system was installed in 1990 and upgraded in 1996. Under these early LFG systems, collected methane was destroyed via candlestick flare. Since 2004, LFG has been used to generate electricity. The current LFG management system consists of:

- An extraction well network, including vertical and horizontal wells.
- A collection system incorporating branch, lateral and header pipes to convey the collected LFG from the extraction network to the LFG utilization facility or flares.
- An LFG destruction facility with moisture separators, centrifugal blowers, flares, piping and electrical service.
- A 1.6-MW generator for LFG utilization.
- An LFG monitoring program.
- A subsurface gas migration monitoring network that includes gas monitoring probes located adjacent to the eastern property boundary and the perimeter of on-site building foundations.

### 6.1 Gas Extraction Wells

Table 3 shows the number and type of gas wells installed and operating over the last six years. A complete summary of all gas wells, including installation and deactivation dates, is included in Appendix B. In 2022, two wells were activated: HLGW0078 and HLGW0084; and HLGW0056 was decommissioned. Other than the decommissioned well, all wells were read to monitor gas concentrations at some point during 2022.

**Table 3 Number and Type of Gas Wells Installed or Operating (2015-2022)**

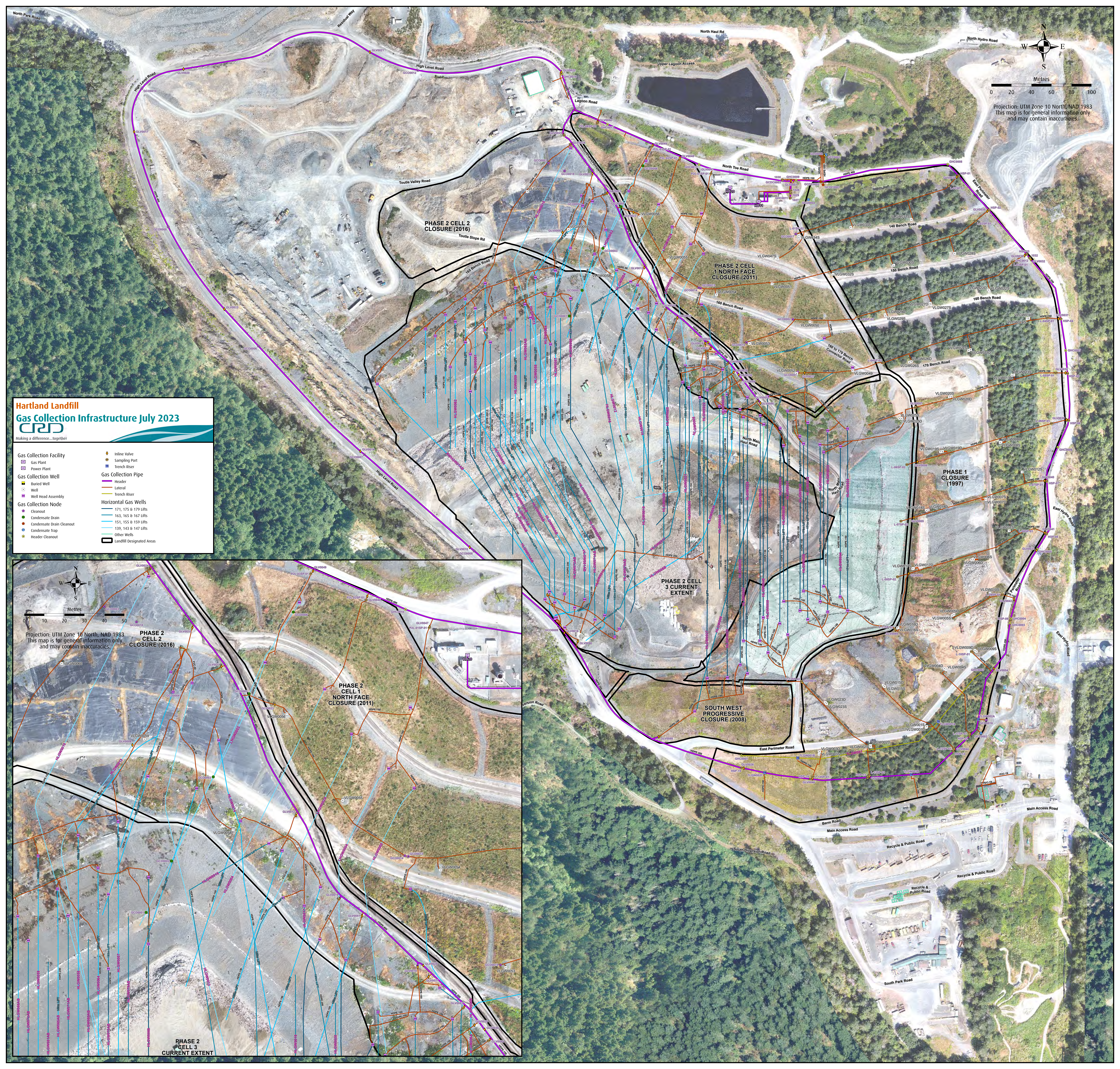
| Type of Gas Well                                | 2017       | 2018       | 2019       | 2020       | 2021       | 2022       |
|-------------------------------------------------|------------|------------|------------|------------|------------|------------|
| Vertical gas wells operating                    | 67         | 63         | 60         | 60         | 58         | 58         |
| Horizontal gas wells operating                  | 62         | 69         | 78         | 78         | 84         | 86         |
| Leachate horizontal gas wells operating         | 12         | 9          | 8          | 6          | 6          | 1          |
| Leachate gas trench operating                   | 0          | 0          | 0          | 0          | 0          | 0          |
| Wells installed, but not connected <sup>1</sup> | 5          | 15         | 7          | 15         | 7          | 25         |
| <b>Total</b>                                    | <b>141</b> | <b>141</b> | <b>146</b> | <b>144</b> | <b>148</b> | <b>145</b> |

<sup>1</sup> The total number of wells (does count wells currently installed, but not connected the gas collection system yet).

See Figure 2 for the general location and layout of the LFG infrastructure.

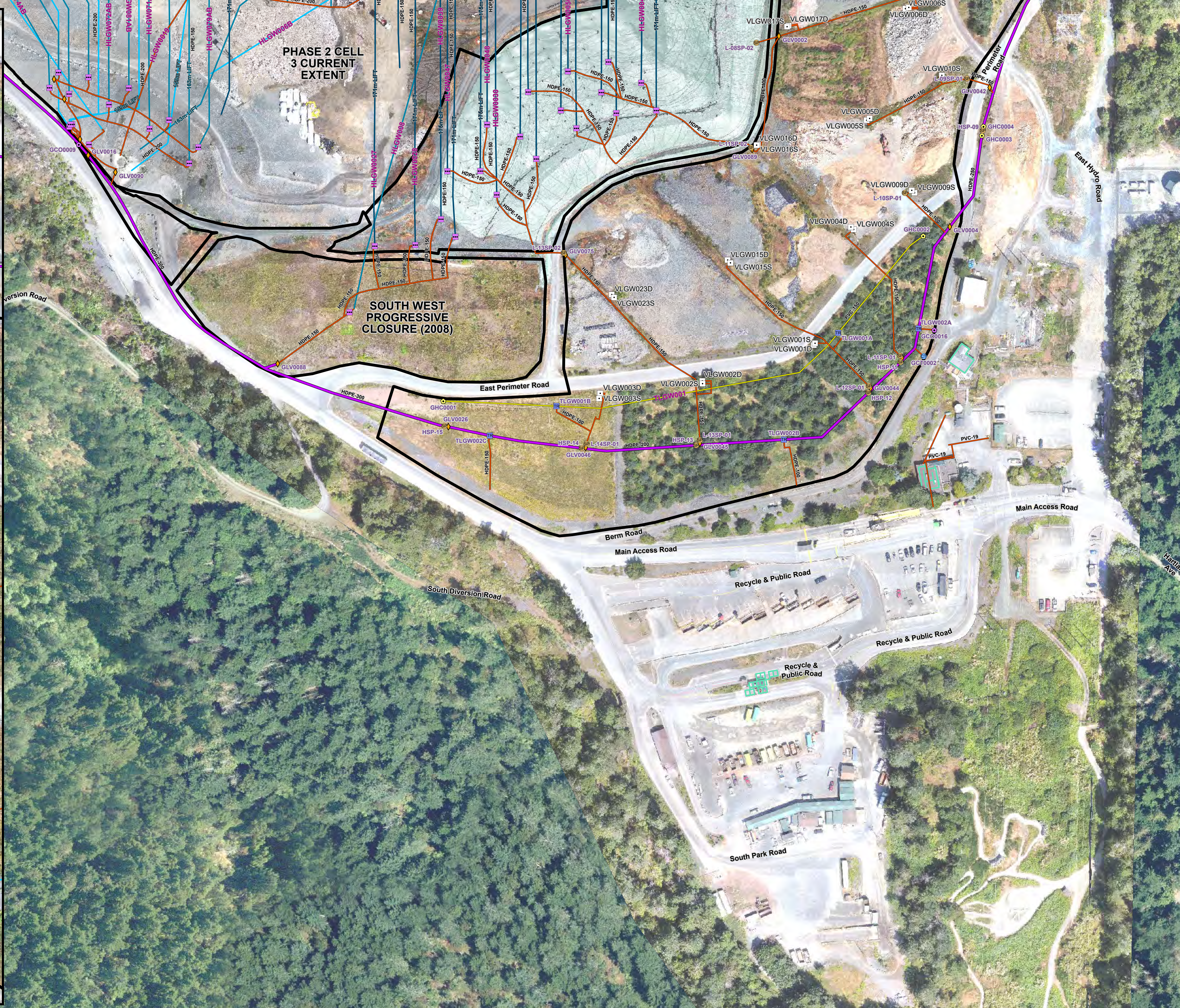
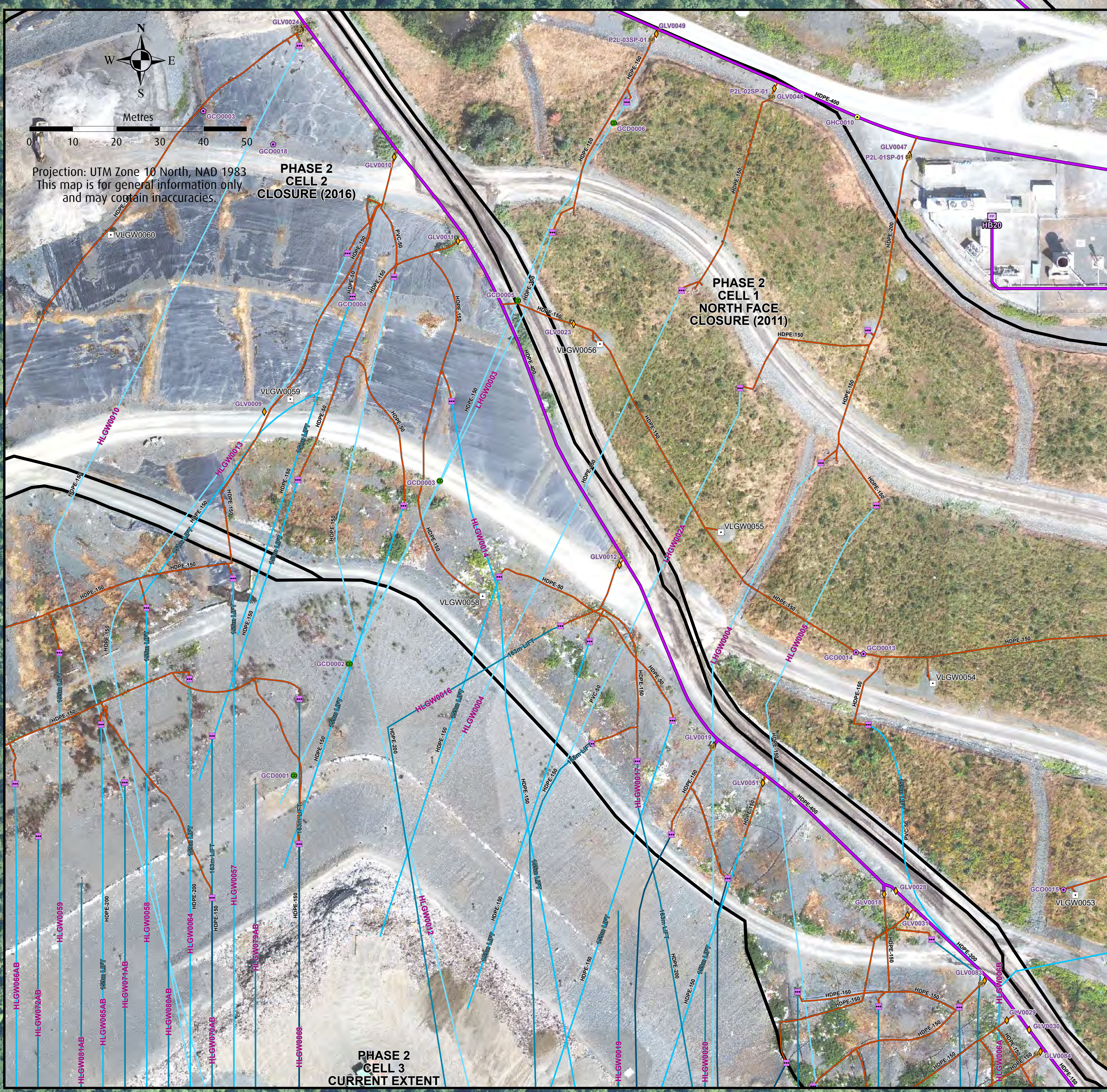
Since 2011, the density of horizontal wells has increased from 45-50 m to 20 m on center. Wells are placed on each vertical lift, approximately every 4 m, with each offset from the lower trench alignment. All new horizontal wells over 150 m in length are connected to laterals at both ends (where feasible). By the end of 2021, six new horizontal wells were activated (in Cell 3).

Current vertical well design includes dual zone shallow and deep wells extending approximately 16 m and 30 m into the waste, respectively. Vertical well saturation with leachate has complicated gas extraction and, as a result, no further vertical wells have been installed since the 2012 implementation of the *Landfill Gas Management Plan*.



**Hartland Landfill**  
**Gas Collection Infrastructure July 2023**  
**CPD**  
 Making a difference...together

|                                |                             |
|--------------------------------|-----------------------------|
| <b>Gas Collection Facility</b> | ◆ In-line Valve             |
| □ Gas Plant                    | ◆ Sampling Port             |
| □ Power Plant                  | ◆ Trench Riser              |
| <b>Gas Collection Well</b>     | <b>Gas Collection Pipe</b>  |
| ■ Bared Well                   | — Header                    |
| □ Well                         | — Lateral                   |
| ■ Well Head Assembly           | — Trench Riser              |
| <b>Gas Collection Node</b>     | <b>Horizontal Gas Wells</b> |
| ● Cleanout                     | — 171, 175 & 179 Lifts      |
| ● Condensate Drain             | — 163, 165 & 167 Lifts      |
| ● Condensate Drain Cleanout    | — 151, 155 & 159 Lifts      |
| ● Other Wells                  | — 139, 143 & 147 Lifts      |
| ● Header Cleanout              | — Other Wells               |
|                                | ▭ Landfill Designated Areas |



North  
 W E  
 S  
 Metres  
 0 20 40 60 80 100  
 Projection: UTM Zone 10 North, NAD 1983  
 This map is for general information only  
 and may contain inaccuracies.

Projection: UTM Zone 10 North, NAD 1983  
 This map is for general information only  
 and may contain inaccuracies.

PHASE 2  
 CELL 2  
 CURRENT EXTENT

## 6.2 Gas Well Field Operation and Monitoring

CRD staff monitor gas wells for methane, carbon dioxide, carbon monoxide, oxygen, balance gas, static pressure, differential pressure, temperature and flow on a monthly basis. The well field must be measured and balanced at least once per month and more often if there are changes in gas composition, or if there are fluctuations in the system vacuum. There are many factors that impact gas generation, so frequent well adjustments are critical to minimize oxygen, and optimize flow and methane content. Ideally, constant vacuum is applied at a well so that gas is drawn at approximately the same rate that it is being generated (a target of >50% methane and <3% oxygen is desirable). A comprehensive summary of gas concentration by well is provided in Appendix C. For 2022, on average, the LFG at the gas plant was comprised of 56.4% methane and 0.3% oxygen.

Data from the well field, including individual well gas flows, is provided in Appendices B2 and B3. The well field was balanced 12 times in 2022 on a monthly basis (specific wells are checked more often to optimize gas extraction), as recommended by the BC *Landfill Gas Management Facilities Design Guidelines*.

Table 4 shows that the nine most productive wells contribute approximately 41% of the total gas volume. Figure 3 depicts gas collection by well as it contributes to the total gas collected.

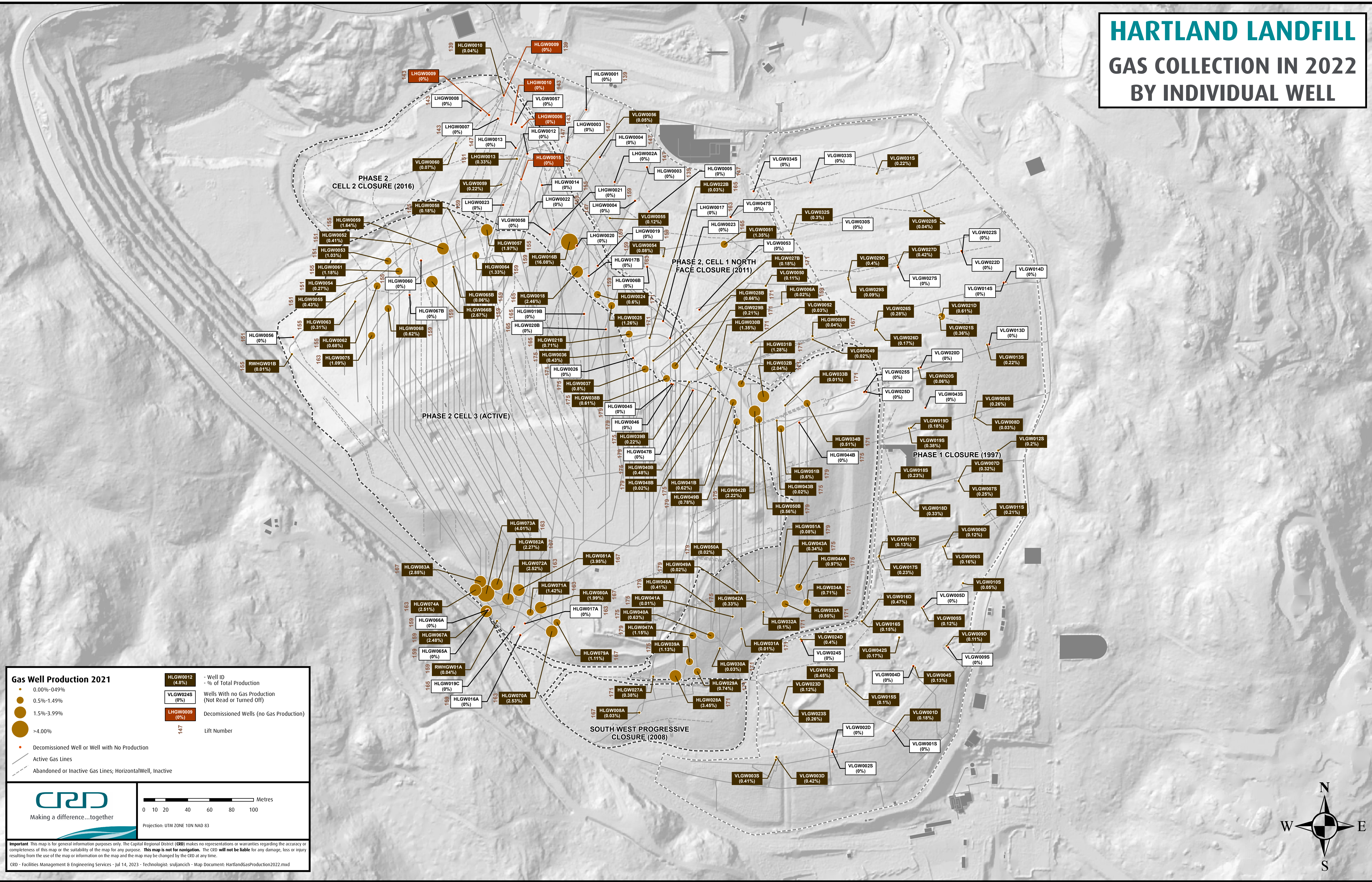
**Table 4 Gas Wells with the Highest Collection 2022**

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m <sup>3</sup> ) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|--------------------------------|-------------|------------------------------|----------------------|
| HLGW016B | 163                | 2012           | 55.58                      | 146.91              | 12                  | 42,895,165                 | 1,214,662                      | 43,606      | 16%                          | 16%                  |
| HLGW073A | 163                | 2019           | 56.68                      | 35.92               | 12                  | 10,693,131                 | 302,797                        | 10,870      | 4%                           | 20%                  |
| HLGW081A | 167                | 2019           | 56.16                      | 35.76               | 12                  | 10,548,939                 | 298,714                        | 10,724      | 4%                           | 24%                  |
| HLGW028A | 171                | 2017           | 55.52                      | 31.61               | 12                  | 9,218,119                  | 261,029                        | 9,371       | 3%                           | 27%                  |
| HLGW083A | 167                | 2019           | 56.25                      | 25.75               | 12                  | 7,608,816                  | 215,459                        | 7,735       | 3%                           | 30%                  |
| HLGW066B | 159                | 2018           | 54.09                      | 25.04               | 12                  | 7,115,590                  | 201,492                        | 7,234       | 3%                           | 33%                  |
| HLGW070A | 163                | 2019           | 55.94                      | 23.00               | 12                  | 6,758,971                  | 191,394                        | 6,871       | 3%                           | 36%                  |
| HLGW072A | 163                | 2019           | 56.35                      | 24.75               | 11                  | 6,717,577                  | 190,222                        | 6,829       | 3%                           | 38%                  |
| HLGW074A | 163                | 2019           | 51.54                      | 24.72               | 12                  | 6,692,150                  | 189,502                        | 6,803       | 3%                           | 41%                  |

If a gas well does not produce enough methane, the valve is often turned down or off. Well production is reviewed monthly during well field balancing events. Wells with poor quality or no gas may be monitored over time for improvements before being removed from the program. It is recommended that older, non-producing wells be removed from the monitoring program and labelled as 'inactive' after 18 months.



# HARTLAND LANDFILL GAS COLLECTION IN 2022 BY INDIVIDUAL WELL



**Gas Well Production 2021**

- 0.00%-0.49%
- 0.5%-1.49%
- 1.5%-3.99%
- >4.00%

○ Well ID  
○ % of Total Production

○ Wells With no Gas Production (Not Read or Turned Off)

○ Decommissioned Wells (no Gas Production)

○ Lift Number

○ Decommissioned Well or Well with No Production

— Active Gas Lines

- - - Abandoned or Inactive Gas Lines; Horizontal Well, Inactive

**CRD**  
Making a difference...together

0 10 20 40 60 80 100 Metres

Projection: UTM ZONE 10N NAD 83

Important: This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map or the suitability of the map for any purpose. This map is not for navigation. The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.

CRD - Facilities Management & Engineering Services - Jul 14, 2023 - Technologist: sruljanich - Map Document: HartlandGasProduction2022.mxd



## 7.0 LFG UTILIZATION AND COLLECTION EFFICIENCY

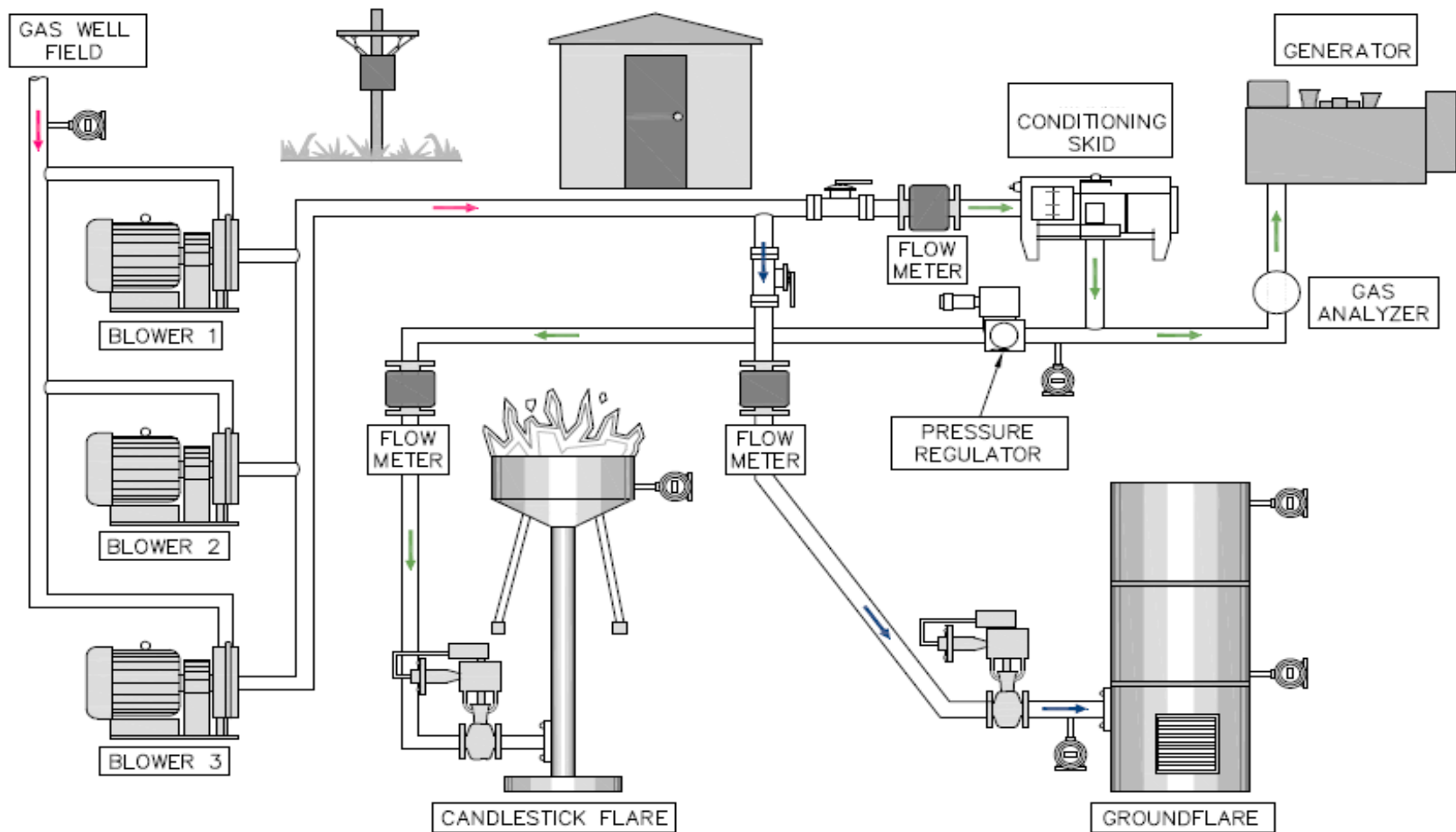
The volume of collected LFG is measured by flow meters at the LFG plant and recorded on the CRD SCADA system. The data is compiled to determine collection and utilization rates, and then compared to the generation model to estimate the collection efficiency of the system. LFG collection refers to all gas drawn into the gas plant, while LFG utilization refers only to the gas used to generate electricity. Table 5 shows a summary of gas collection, utilization and overall collection efficiency. Figures in the following section illustrate the collection efficiency for the last several years (2010-2022) and the full set of data is provided in Appendix C1.

The LFG utilization facility shown in Figure 4 consists of six major components:

1. **Conditioning Skid:** Receives the LFG from the CRD collection/blower system. The conditioning skid cools the gas and reduces moisture, which drains into the condensate collection system. It also reduces the amount of siloxane, which increases wear and tear on generator components.
2. **Refrigeration Plant:** Provides coolant to the conditioning skid by circulating it, as required, to maintain the LFG at 2°C.
3. **Engine:** 20-cylinder, 2,200-HP Caterpillar. The engine runs a direct drive 1,200-rpm, 1.6-MW generator. Electricity produced is fed into the BC Hydro grid.
4. **Transformer:** The unit converts 600 V to 25 kV.
5. **Switch Gear:** Monitors stability of the line input to the BC Hydro grid.
6. **Master Control Building:** Houses the controls that interconnect the utilization facility with the collection system. It also provides system operation controls, such as continuous quality, flow rate and pressure monitoring. The CRD has upgraded its system controls to communicate with the utilization facility.

Gas is drawn into the facility by the blowers and passed through the conditioning skid. An automated valve maintains the required gas pressure for the generator, while excess gas is fed back to the candlestick flare. Gas is only directed to the groundflare during extended periods of generator downtime, during times of generator maintenance or BC Hydro power outages.

Figure 4 Hartland LFG Plant



**Table 5 LFG System Collection Efficiency 2010-2022 ENV Model**

| Year | Modelled Methane generation (tonnes/year) | Measured Methane (tonnes/year) | Collection Efficiency (%) ENV Model | GHG Emission (tonnes/year CO2e) | GHG Emission (tonnes/year CO2e) <sup>1</sup> with biological oxidation |
|------|-------------------------------------------|--------------------------------|-------------------------------------|---------------------------------|------------------------------------------------------------------------|
| 2010 | 8,054                                     | 2,664                          | 32.4                                | 155,829                         | 116,872                                                                |
| 2011 | 8,125                                     | 2,835                          | 34.3                                | 152,379                         | 114,284                                                                |
| 2012 | 8,163                                     | 4,045                          | 48.8                                | 118,945                         | 89,208                                                                 |
| 2013 | 8,170                                     | 4,817                          | 58.2                                | 97,019                          | 72,764                                                                 |
| 2014 | 8,158                                     | 4,596                          | 56.4                                | 100,211                         | 75,158                                                                 |
| 2015 | 8,103                                     | 5,294                          | 65.6                                | 77,722                          | 58,292                                                                 |
| 2016 | 8,038                                     | 4,923                          | 61.8                                | 85,064                          | 63,798                                                                 |
| 2017 | 8,032                                     | 5,377                          | 67.7                                | 71,868                          | 53,901                                                                 |
| 2018 | 8,056                                     | 5,060                          | 64.0                                | 79,780                          | 59,835                                                                 |
| 2019 | 8,101                                     | 5,182                          | 65.5                                | 76,532                          | 57,399                                                                 |
| 2020 | 8,157                                     | 5,289                          | 66.7                                | 74,060                          | 55,545                                                                 |
| 2021 | 8,192                                     | 5,611                          | 68.5                                | 72,268                          | 54,201                                                                 |
| 2022 | 8,325                                     | 5,865                          | 70.5                                | 68,880                          | 51,660                                                                 |

<sup>1</sup> Assuming 25% biological oxidation. Please see Appendix A6 US EPA Oxidation Table Reference for Cover System Capture

**Table 6 LFG Collection System Efficiency 2015-2022 UBCi Model**

| Year | Modelled Methane generation (tonnes/year) | Measured Methane (tonnes/year) | Collection Efficiency (%) UBCi Model | GHG Emission (tonnes/year CO2e) <sup>1</sup> | GHG Emission (tonnes/year CO2e) <sup>2</sup> with biological oxidation |
|------|-------------------------------------------|--------------------------------|--------------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| 2015 | 7,239                                     | 5,294                          | 73                                   | 54,440                                       | 40,830                                                                 |
| 2016 | 7,135                                     | 4,923                          | 69                                   | 61,919                                       | 46,439                                                                 |
| 2017 | 7,100                                     | 5,377                          | 76                                   | 48,250                                       | 36,187                                                                 |
| 2018 | 7,101                                     | 5,060                          | 71                                   | 57,139                                       | 42,855                                                                 |
| 2019 | 7,123                                     | 5,182                          | 73                                   | 54,337                                       | 40,753                                                                 |
| 2020 | 7,151                                     | 5,289                          | 74                                   | 52,135                                       | 39,102                                                                 |
| 2021 | 7,167                                     | 5,611                          | 78                                   | 43,545                                       | 32,659                                                                 |
| 2022 | 7,283                                     | 5,865                          | 81                                   | 39,699                                       | 29,774                                                                 |

<sup>2</sup> Assuming 25% biological oxidation. Please see Appendix A6 US EPA Oxidation Table Reference for Cover System Capture

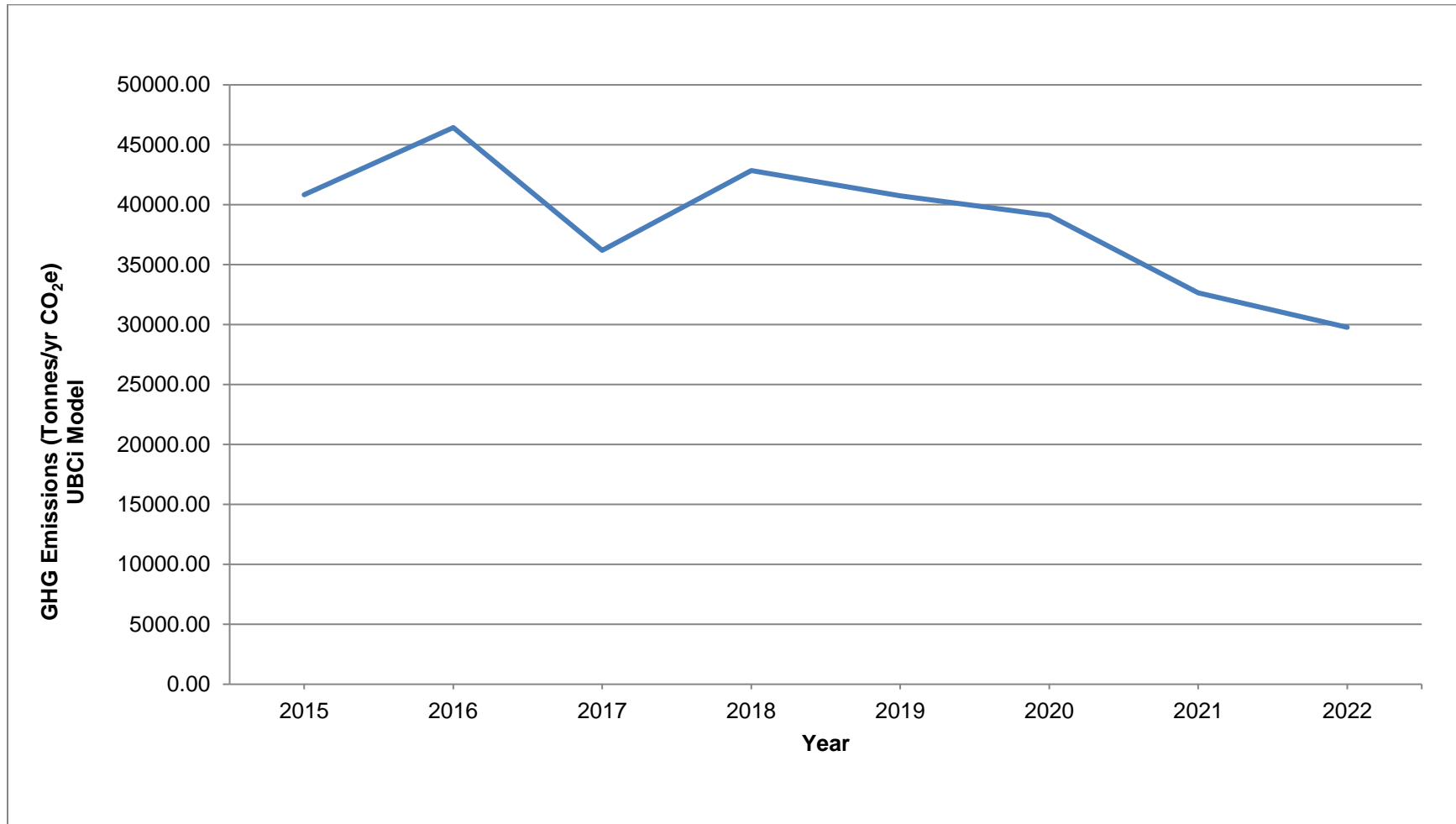
The data above present collection efficiency using the ENV gas generation model (Table 5), as stipulated in the *Landfill Gas Management Facilities Design Guidelines*, and the UBCi model (Table 6). In 2020, landfill gas emissions were measured across the site and a methane mass balance was completed. Data was compared to three landfill gas generation models (including the required ENV model) and collection efficiency was calculated. Gas generation results from the UBCi model correlate closely with the methane mass balance and result in a higher collection efficiency. The UBCi model was used to retroactively calculate collection efficiency back to 2014. More detail on this project is provided in the next section (7.1.1).

In 2022, collection efficiency using the ENV model and UBCi model was calculated at 70% and 81%, with total uncollected (fugitive) GHG emissions estimated at 51,660 and 29,774 tonnes CO<sub>2e</sub>, respectively (Figure 5). Gas collection varies as a result of refuse age, well installation/operation, and well balancing activity.

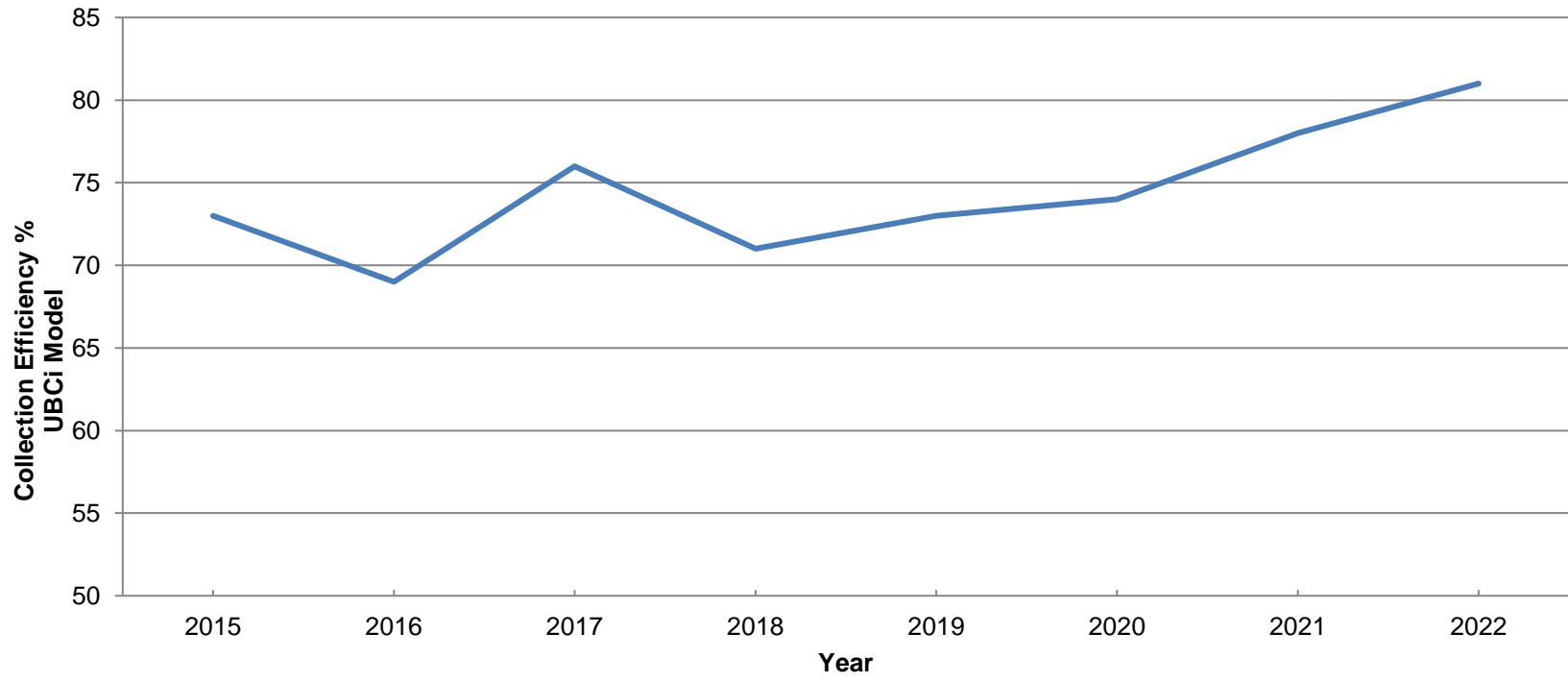
Overall, the following observations can be made regarding gas production and collection at Hartland:

- Phase 1 gas production is depleting. Waste in this area of the landfill has been in place for more than 30 years and a decline in gas production is expected.
- There is decreased gas production in some high producing wells in Phase 2, which is expected due to age of refuse and advanced methanogenic processes.
- Activation of gas wells in Cell 3 required sufficient refuse in place to prevent oxygen intrusion. Wells in Cell 3 are now producing sufficient gas. More wells will be brought online in 2023.
- Gas collection could be improved with connection of wells on the north side of Cell 3. These wells are ready to be connected and likely producing gas; however connection has been delayed due to the impending construction of Cells 4, 5 and 6.

Figure 5 Fugitive GHG Emission at Hartland Landfill 2015-2022 (UBCi model)



**Figure 6**      **Collection Efficiency Estimates 2015-2022 (UBCi model)**



### 7.1.1 Gas Generation, Quantification and Modelling Study

Fugitive emissions at Hartland were empirically measured during two field events in 2020 (June and October). The data were used to complete a comprehensive landfill gas mass balance for the site across three different landfill gas generation models. Report findings confirm that the current ENV model overestimates landfill gas generation and fugitive emissions at Hartland, while the UBCi model more accurately estimates gas generation. Consequently, the calculated gas collection efficiency is higher for the UBCi model. According to the UBCi model, supported by empirical, mass balance data, Hartland Landfill is exceeding the 75% collection efficiency requirement set out in the *BC Landfill Gas Management Regulation*. The full report is provided in Appendix A. The analysis also found that current landfill cover systems were estimated to biologically oxidize 29% of the total fugitive emissions in 2020. For the 2022 report, based on the advice of our consultant, we are assuming 25% biological oxidation through the landfill cover based on the US EPA Oxidation Table (Appendix A).

The report also identified additional strategies that can be taken by CRD to increase collection efficiency and biological oxidization, including enhancements to the existing landfill gas collection system and application of an engineered biocover system on both closed and operational phases of the landfill. CRD staff and the consultant will be working on improving or designing alternative ways to address fugitive emissions across the landfill.

### 7.1.2 Destruction Devices and Usage

Table 7 shows the average gas collected from 2014-2022 and flows through destruction devices (generator, candlestick or groundflare). Flaring of gas occurs when gas collection exceeds generator capacity or during generator downtime.

The *BC Landfill Gas Management Facilities Design Guidelines* specify that a candlestick flare should not be used as a primary combustion device but can be utilized as a backup combustion device when flows exceed the capacity of other approved devices. As a result, 50% or more of the total LFG collected should be directed through high efficiency destruction devices (groundflare or generator). Since 2009, the generator and groundflare have been the primary destruction devices. In 2022, a total of 57% of the gas was directed through approved destruction devices.

**Table 7 LFG Flows to Destruction Devices (2015-2022)**

| Annual Average                          | Year          |               |               |               |               |               |               |               |
|-----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                         | 2015          | 2016          | 2017          | 2018          | 2019          | 2020          | 2021          | 2022          |
| Gas Collected (scfm)*                   | 1,085.5       | 1,003.3       | 1,101.8       | 1,037.1       | 1,062.2       | 1,084.0       | 1,150.1       | 1,201.7       |
| Gas Burned by Generator (scfm)*         | 318.9         | 263.9         | 467.2         | 534.6         | 439.3         | 439.3         | 443.4         | 384.7         |
| Gas Burned by Candlestick Flare (scfm)* | 304.0         | 313.6         | 461.1         | 469.5         | 394.6         | 394.6         | 520.2         | 480.1         |
| Gas Burned by Groundflare (scfm)*       | 464.1         | 430.0         | 176.6         | 33.0          | 228.3         | 228.3         | 127.6         | 200.5         |
| Total Gas Flared                        | 70.8%         | 74.1%         | 57.9%         | 48.5%         | 58.6%         | 57.5%         | 56.3%         | 56.6%         |
| <b>% through candlestick</b>            | <b>28.01%</b> | <b>31.26%</b> | <b>41.85%</b> | <b>45.27%</b> | <b>37.15%</b> | <b>37.15%</b> | <b>45.23%</b> | <b>39.95%</b> |

\*Normalized to 50% methane



### 7.1.3 LFG Management Plan Implementation Status

The CRD has implemented the conceptual design in the *Landfill Gas Management Plan*. However, since the plan was prepared, some operational changes have occurred, which are summarized below:

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2012      | Per the <i>Landfill Gas Management Plan</i> , alignment of horizontal wells changed from east-west to north-south due to the master fill plan cell phasing and progression.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2012/2013 | Relocation and reconfiguration of controlled waste disposal areas. Controlled waste, initially landfilled in clay-lined cells, is now trenched into refuse. Landfilling was conducted over the controlled waste area expanding the available footprint for Cell 2. This benefits overall collection in that it allows gas wells to be installed in controlled waste areas that would otherwise be inappropriate due to clay.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2014      | Installation of vertical gas wells has been delayed pending further review of efficacy due to leachate inundation or minimal gas production. Vertical gas wells installed in recent closed areas (2012) were not productive due to density of horizontal wells and overlapping areas-of-influence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2014      | Since implementation of the <i>Landfill Gas Management Plan</i> , horizontal well installation depths have been reduced (made shallower). The proposed deeper wells were intended to accelerate activation; however, this was not actualized, and the deeper wells triggered odour and safety issues during installation. As a result, this part of the <i>Landfill Gas Management Plan</i> was revised to allow for shallow wells. The shallow wells have fewer health and safety considerations, are less expensive to install, and can be activated in the same timeframe, as deeper wells specified in the plan.                                                                                                                                                                                                                                               |
| 2015/2016 | Filling plan sequencing has changed since the plan was prepared. These changes represent schedule variations rather than whole scale deviations from the <i>Landfill Gas Management Plan</i> . Changes include: <ul style="list-style-type: none"> <li>Phase 2, Cell 2 vertical extension by two lifts to allow time for completion of the cliff quarry and construction of Cell 3.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2017      | A bypass line valve was opened at the gas plant to reduce backpressure on the well field and increase gas flows to the plant. As a result, flows increased by 50-100 scfm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2018      | No significant changes to the system were made in 2018.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2019      | No significant changes to the system were made, but additional Cell 3 wells are now coming online, which is consistent with the <i>Landfill Gas Management Plan</i> prediction that Cell 3 well activation may take up to five years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2020      | No significant changes to the system were made. LFG generation and emissions study was completed to confirm the effectiveness of the current collection infrastructure and well field balancing programs. Additional well field optimization projects are planned for 2021.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2021      | CRD staff continue the well balancing efforts several times a month to optimize the methane generation in each well and subsequently improve the well field gas production (i.e., reducing nitrogen and oxygen content and increasing the methane production).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2022      | No significant changes to the system were made. Additional well field optimization and biocover projects are planned for 2023. CRD staff will continue the well balancing efforts several times a month to optimize the methane generation in each well and subsequently improve the well field gas production (i.e., reducing nitrogen and oxygen content and increasing the methane production). Due to the current design and development of Cells 4, 5 and 6 in Phase 2, connection has been delayed for a number of collection wells already installed on the north slope of Cell 3. These wells will be connected during construction of Cells 4, 5, 6 in 2023. Additionally, the CRD is aiming to start updates to the landfill gas management plan for Hartland Landfill in 2023/2024 following completion of the design of the current cell developments. |

<sup>1</sup> The gas wells will be monitored and adjusted several times a month, however, the results are reported once a month.

#### **7.1.4 Future Projects**

##### **Renewable Natural Gas Project**

Work is proceeding on the Renewable Natural Gas upgrading facility at Hartland Landfill. Construction to replace the existing landfill gas-to-energy facility is expected to begin in quarter 3 of 2023 and will take approximately one year to complete. A phasing plan will be in place during decommissioning and construction to ensure ongoing gas destruction in accordance with the Landfill Gas Management Regulation. At this stage, the electricity generation function of the existing gas plant is scheduled to stop at the end of November 2023, however, operation of the groundflare will continue following that, with only 3 planned flare shutdowns (each less than 24 hours) in 2024.

The expected design capacity is maximum 2,000 scfm into the biogas upgrading facility. The facility is designed to meet or exceed the CRD Biomethane Specifications under the range of LFG characteristics outlined in Appendix F1. General layout and isometric view of the biogas upgrading facility in addition to some high level information associated with enclosed flare, candlestick flare, and blower are provided in Appendix F2 through F4.

##### **Installation of Well Auto Tuning Devices**

Procurement is underway for installing 12 landfill gas well autotuning devices to conduct a pilot study on the feasibility of this innovative technology. Automated well tuning devices are designed to optimize well field performance by automatically adjusting the extraction rate of each well in the field. These devices can monitor and provide data at a considerably higher frequency (e.g., multiple times a day – depending on the device and the design). These devices use sensors to measure the vacuum and flow rate at each well, and then adjust the extraction rate of each well accordingly to achieve optimal performance. Automated well tuning devices can optimize LFG extraction rates ensuring that the vacuum across the entire well field is balanced, and LFG is collected efficiently. As a result, this will reduce the amount of methane released into the atmosphere, thus reducing greenhouse gas (GHG) emissions. This pilot is expected to begin in the fourth quarter of 2023.

##### **Installation of Continuous Surface Emission Monitoring Devices**

The CRD is currently partnering with a potential vendor to install 26 continuous methane surface emission measurement devices at different locations of Hartland Landfill. Each device will be equipped with methane sensors and the default ability to monitor meteorological data using anemometer, temperature, pressure, and humidity sensors. As part of this partnership, the CRD will provide in-kind contributions such as access to the site and provide input to improve and validate the accuracy of this innovative technology; and in return, CRD will get the surface methane emission data at Hartland Landfill that will inform the future decisions in preparation for the new federal landfill gas regulations coming into effect in 2024.

#### **8.0 OPERATIONAL PERFORMANCE**

Detailed landfill operational updates and changes are outlined in the *Hartland Landfill 2022 Operations Report*. There were no significant changes to the operation of the LFG system in 2022. The gas collection system operates continuously, except when there is a power failure or alarms that result in system shutdown.

Table 8 summarizes collection system downtime (i.e., no vacuum applied on the collection system), approximately seven days. All downtime can be attributed to power outages and planned/unplanned maintenance.

Table 9 summarizes the 2022 generator performance, including electricity production, which compares actual operating hours to available operating hours for each month.

**Table 8 Summary of 2022 Blower Downtime by Month**

| Month        | Downtime (hours)          |
|--------------|---------------------------|
| January      | 41.94                     |
| February     | 0.00                      |
| March        | 24.52                     |
| April        | 0.00                      |
| May          | 0.00                      |
| June         | 1.49                      |
| July         | 3.09                      |
| August       | 25.52                     |
| September    | 0.00                      |
| October      | 72.10                     |
| November     | 0.00                      |
| December     | 0.47                      |
| <b>Total</b> | <b>169.12 (7.05 days)</b> |

**Table 9 Generator Performance 2022**

| Month          | Engine Run Hours | Electricity Generated (MW-hour) <sup>1</sup> | Production (%) |
|----------------|------------------|----------------------------------------------|----------------|
| January        | 462              | 1,011                                        | 85%            |
| February       | 300              | 639                                          | 59%            |
| March          | 365              | 537                                          | 45%            |
| April          | 673              | 824                                          | 72%            |
| May            | 714              | 1,039                                        | 87%            |
| June           | 712              | 1,078                                        | 94%            |
| July           | 687              | 1,027                                        | 86%            |
| August         | 550              | 943                                          | 79%            |
| September      | 406              | 517                                          | 45%            |
| October        | 419              | 461                                          | 39%            |
| November       | 705              | 698                                          | 61%            |
| December       | 703              | 987                                          | 83%            |
| <b>Average</b> | <b>558</b>       | <b>814</b>                                   | <b>70%</b>     |

<sup>1</sup> Reported by BC Hydro

## 9.0 MONITORING PROGRAMS

Annual monitoring is conducted to evaluate LFG collection and control system performance. Monitoring includes both operational monitoring, e.g., generator performance monitoring and environmental monitoring (e.g., gas quality in surface probes). This section and Table 10 summarize the LFG monitoring activities.

**Table 10 Summary of LFG Monitoring Programs**

| Task & Objectives                                                                                                                   | Frequency                      | Primary Parameters                                                          | Criteria                                                        | Action if Criteria Exceeded                                                                                                                                                                | Monitoring By |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>1. Perimeter subsurface probe monitoring</b>                                                                                     |                                |                                                                             |                                                                 |                                                                                                                                                                                            |               |
| To detect potential subsurface LFG migrating off site                                                                               | Quarterly at perimeter probes  | CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , pressure and/or vacuum | LEL for methane (5.0%)                                          | Increase sampling frequency. Initiate off-site sampling (see Task 7 below). Evaluate effectiveness of remedial measures.                                                                   | EPro Staff    |
| <b>2. Building foundation probes</b>                                                                                                |                                |                                                                             |                                                                 |                                                                                                                                                                                            |               |
| To detect potential subsurface LFG migration into on-site building foundations                                                      | Quarterly at foundation probes | CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> , pressure and/or vacuum | 20% of LEL<br>10% of LEL – CRD internal standard                | Initiate appropriate remedial action.                                                                                                                                                      | EPro Staff    |
| <b>3. On-site ambient grid sampling</b>                                                                                             |                                |                                                                             |                                                                 |                                                                                                                                                                                            |               |
| To assess on-site LFG concentrations at known grid locations across the landfill surface                                            | Once per year                  | THC as methane and H <sub>2</sub> S                                         | 100 ppm as THC (methane)                                        | Initiate investigation of remedial measures. Identify locations >100 ppm THC for Task 4.                                                                                                   | EPro Staff    |
| <b>4. On-site ambient hotspot monitoring</b>                                                                                        |                                |                                                                             |                                                                 |                                                                                                                                                                                            |               |
| To identify localized sources of LFG, or releases that could create potential health, safety, environmental or operational problems | Once per year                  | THC as methane and H <sub>2</sub> S                                         | 12,500 ppm/1.25% THC (25% of the LEL)<br>5 ppm H <sub>2</sub> S | Initiate investigation of remedial measures. Identify locations with THC >1,000 ppm or H <sub>2</sub> S >5 ppm as Z points (hotspots). Personal gas detectors required in high-risk areas. | EPro Staff    |

| Task & Objectives                                                                                                        | Frequency            | Primary Parameters                                                                 | Criteria                                                                                      | Action if Criteria Exceeded                                                     | Monitoring By  |
|--------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------|
| <b>5. Gas well field monitoring</b>                                                                                      |                      |                                                                                    |                                                                                               |                                                                                 |                |
| Monitor the concentrations and gas flows from all the wells connected to the gas collection system                       | Minimum of monthly   | Temperature, vacuum, flow rate, CH <sub>4</sub> , CO <sub>2</sub> , O <sub>2</sub> | Maintain gas flow and methane content, control oxygen intake                                  | Adjust wellhead vacuum.                                                         | Hartland Staff |
| <b>6. Blower, flare and generator station monitoring</b>                                                                 |                      |                                                                                    |                                                                                               |                                                                                 |                |
| Monitor the performance of the moisture separators, blowers and flare and/or generation station                          | Continuous           | Temperature, pressure, gas flow rate, CH <sub>4</sub> , O <sub>2</sub>             | Operational                                                                                   | Adjust well field if outside operational criteria.                              | Hartland Staff |
| <b>7. Off-site properties</b>                                                                                            |                      |                                                                                    |                                                                                               |                                                                                 |                |
| To measure concentrations of gases in the event of LFG migrating off site                                                | Task 1 exceedance    | THC and H <sub>2</sub> S                                                           | Detectable above air quality guidelines and WorkSafeBC criteria                               | Initiate appropriate remedial action.                                           | Hartland Staff |
| <b>8. On-site building gas monitoring</b>                                                                                |                      |                                                                                    |                                                                                               |                                                                                 |                |
| To monitor methane and H <sub>2</sub> S levels to protect workers in on-site buildings                                   | Task 2 exceedance    | Methane and H <sub>2</sub> S                                                       | 20% of the LEL (1% CH <sub>4</sub> ) – the Guidelines<br>10 ppm H <sub>2</sub> S – WorkSafeBC | Initiate appropriate remedial action.                                           | Hartland Staff |
| <b>9. LFG speciation</b>                                                                                                 |                      |                                                                                    |                                                                                               |                                                                                 |                |
| To measure concentrations of compounds in the LFG at the inlet to the gas conditioning skid and power generation station | Once every two years | VOC and H <sub>2</sub> S                                                           | WorkSafeBC criteria for individual compounds in ambient air                                   | Initiate Task 10 if calculated ambient concentrations exceed WorkSafeBC limits. | EPro Staff     |
| <b>10. On-site ambient air quality measurement</b>                                                                       |                      |                                                                                    |                                                                                               |                                                                                 |                |
| Measure ambient VOC                                                                                                      | Task 9 exceedance    | VOC and H <sub>2</sub> S                                                           | WorkSafeBC criteria for individual compounds in ambient air                                   | Initiate remedial action.                                                       | EPro Staff     |
| <b>11. Generator performance evaluation</b>                                                                              |                      |                                                                                    |                                                                                               |                                                                                 |                |
| Monitor the performance of the groundflare (stack test emissions)                                                        | Annual               | Various                                                                            | ENV Air Quality Objectives and WorkSafeBC criteria                                            | Initiate remedial action.                                                       | EPro Staff     |

**Notes:**

EPro staff = Environmental Protection staff

LEL = lower explosive limit

VOC = volatile organic content

## **9.1 Subsurface Gas Monitoring – Perimeter and Foundation Probes**

Perimeter probes and foundation/trench probes have been used at Hartland Landfill to monitor for subsurface gas migration since 1996. Perimeter and foundation probes are required in the BC *Landfill Criteria for Municipal Solid Waste* (2016). Quarterly monitoring is conducted in five eastern perimeter monitoring probes and 12 foundation monitoring probes (Figure 7). Through long-term improvements to the LFG collection system, LFG migration potential has been mitigated and there is no indication of gas migration off site. Although the risk is minimal, ongoing monitoring is required to meet regulatory requirements and to confirm worker and public health and safety. A complete monitoring methodology, probe locations, details, and data from the perimeter and building foundation probes are provided in Appendix D.

### **9.1.1 Perimeter Probes**

All probes were monitored according to the standard operating procedures four times in 2022; data is presented in Table 11 and Table 13, maximum values are shown in Table 12. There was no detectable methane recorded in 2022. Consistent with historical data, CO<sub>2</sub> levels are slightly higher in the shallower 'B' probes than the deeper 'A' probes. Elevated carbon dioxide levels may give an early indication of the presence of LFG; however, no unusually high CO<sub>2</sub> levels were observed. Ongoing monitoring will continue to determine if any trends develop.

### **9.1.2 Foundation Probes**

Foundation probes were monitored four times in 2022, which is in compliance with ENV requirements (see Table 13 and 14). Carbon dioxide levels were similar to previous years. There were no recorded exceedances of the ENV limit of 1.0% methane during the reporting period. Monitoring will continue to satisfy regulatory requirements and to determine if any trends develop.

Perimeter and foundation probe monitoring results for 2022 were in compliance with the ENV requirements. Methane was not detected. The data indicates minimal risk of subsurface methane migration to adjacent properties or buildings. Quarterly monitoring should continue, to meet regulatory requirements and to evaluate health and safety risks.

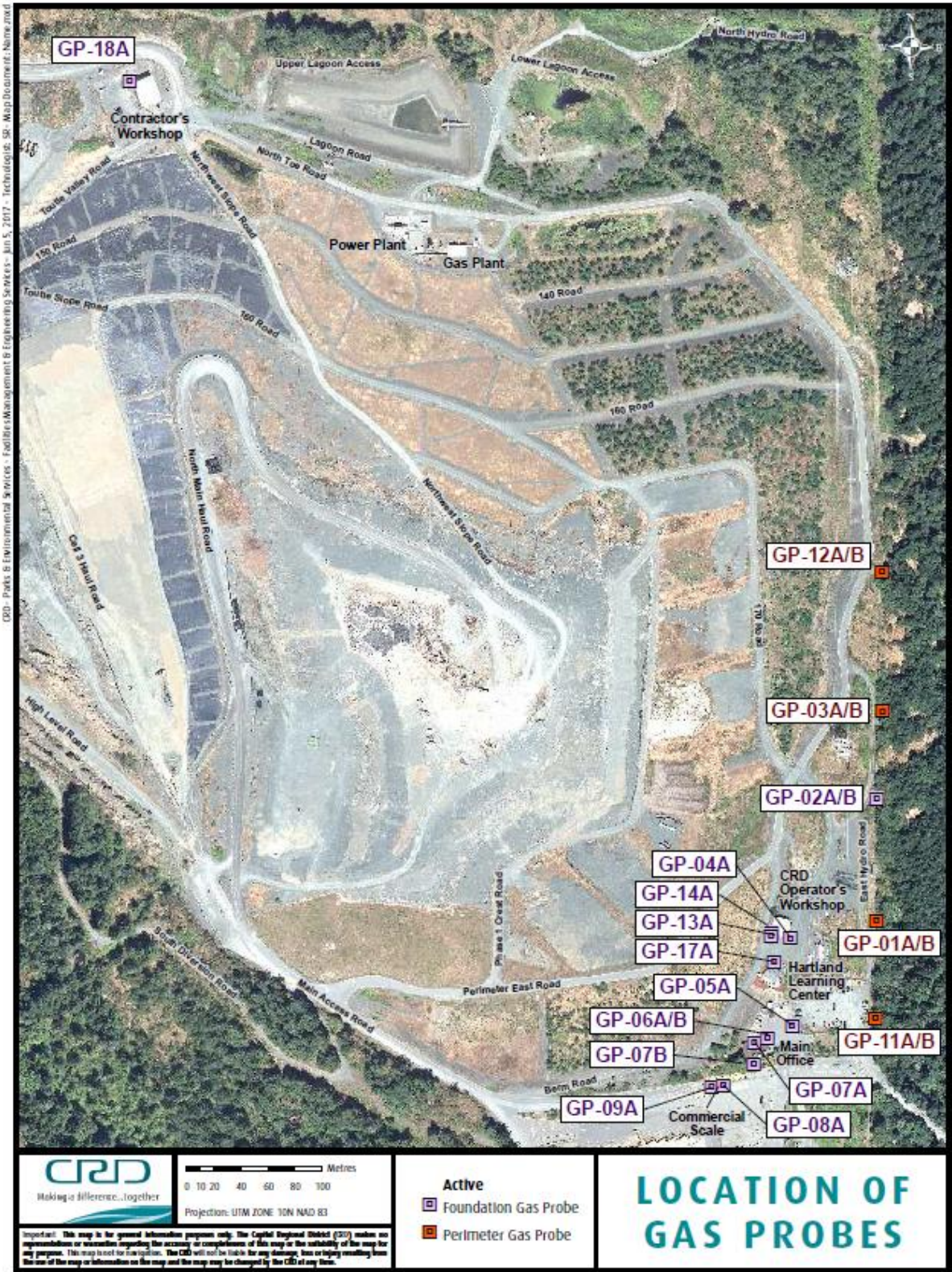
**Table 11 Average Gas Concentrations in Subsurface Perimeter Probes 2016-2022**

| Probe  | CH <sub>4</sub> (%) |      |      |      |      |      |      | Probe  | CO <sub>2</sub> (%) |      |      |      |      |      |      | Probe  | O <sub>2</sub> (%) |      |      |      |      |      |      |
|--------|---------------------|------|------|------|------|------|------|--------|---------------------|------|------|------|------|------|------|--------|--------------------|------|------|------|------|------|------|
|        | 2016                | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |        | 2016                | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |        | 2016               | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| GP-1A  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-1A  | 0.1                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.2  | GP-1A  | 20.6               | 20.3 | 20.3 | 20.8 | 20.8 | 21.5 | 20.2 |
| GP-1B  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-1B  | 1.5                 | 0.9  | 0.8  | 1.5  | 2.5  | 3.0  | 3.1  | GP-1B  | 18.9               | 19.3 | 19.4 | 19.1 | 19.1 | 16.1 | 15.4 |
| GP-2A  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-2A  | 0.1                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.2  | GP-2A  | 20.4               | 20.4 | 20.2 | 20.6 | 20.8 | 21.6 | 20.1 |
| GP-2B  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-2B  | 3.8                 | 1.6  | 3.1  | 3.8  | 4.3  | 2.2  | 4.7  | GP-2B  | 13.2               | 15.6 | 13.9 | 12.5 | 15.7 | 16.8 | 9.7  |
| GP-3A  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-3A  | 1.8                 | 1.8  | 1.4  | 1.9  | 1.5  | 1.9  | 1.8  | GP-3A  | 14.6               | 12.8 | 14.7 | 13.8 | 15.5 | 18.5 | 13.0 |
| GP-3B  | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-3B  | 4.3                 | 3.9  | 3.9  | 5.9  | 6.1  | 5.0  | 3.8  | GP-3B  | 15.0               | 16.2 | 15.4 | 15.5 | 15.3 | 14.9 | 15.4 |
| GP-11A | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-11A | 0.1                 | 0.1  | 0.0  | 0.0  | 0.0  | 0.1  | 0.2  | GP-11A | 20.6               | 20.3 | 20.3 | 20.8 | 20.9 | 21.5 | 20.4 |
| GP-11B | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-11B | 0.8                 | 1.4  | 1.1  | 1.4  | 2.1  | 2.0  | 11.0 | GP-11B | 19.9               | 19.2 | 19.5 | 19.8 | 18.6 | 19.5 | 18.4 |
| GP-12A | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-12A | 1.2                 | 2.0  | 2.0  | 1.3  | 2.3  | 1.8  | 11.7 | GP-12A | 15.9               | 13.4 | 13.6 | 16.4 | 13.5 | 15.3 | 14.2 |
| GP-12B | 0.0                 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | GP-12B | 6.1                 | 4.8  | 4.9  | 7.3  | 7.0  | 5.2  | 8.3  | GP-12B | 11.3               | 12.9 | 12.9 | 9.0  | 10.5 | 12.9 | 8.2  |

**Table 12 Maximum Gas Concentrations in Perimeter Probes**

| Probe  | CH <sub>4</sub> (%) | CO <sub>2</sub> (%) |
|--------|---------------------|---------------------|
| GP-1A  | 0.00                | 0.10                |
| GP-1B  | 0.00                | 3.10                |
| GP-2A  | 0.00                | 0.10                |
| GP-2B  | 0.00                | 5.50                |
| GP-3A  | 0.00                | 2.20                |
| GP-3B  | 0.00                | 8.40                |
| GP-11A | 0.00                | 0.10                |
| GP-11B | 0.00                | 2.40                |
| GP-12A | 0.00                | 5.40                |
| GP-12B | 0.00                | 9.00                |

Figure 7 Location of Gas Probes





**Table 13 Average Gas Concentrations in Subsurface Foundation Probes 2016-2022**

| Probe  | CH <sub>4</sub> (%) |                  |                  |                  |                  |                  |                  | Probe  | CO <sub>2</sub> (%) |                  |                  |                  |                  |                  |                  | Probe  | O <sub>2</sub> (%) |                  |                  |                  |                  |                  |                  |
|--------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|        | 2016                | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |        | 2016                | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |        | 2016               | 2017             | 2018             | 2019             | 2020             | 2021             | 2022             |
| GP-4A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-4A  | 1.7                 | 2.1              | 0.1              | 0.0              | 2.9              | 1.1              | 2.1              | GP-4A  | 18.4               | 19.4             | 20.8             | 21.0             | 18.3             | 20.8             | 18.4             |
| GP-5A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-5A  | 0.8                 | 0.7              | 0.7              | 0.6              | 0.8              | 0.8              | 0.6              | GP-5A  | 19.9               | 19.8             | 19.7             | 20.2             | 19.9             | 21.0             | 20.0             |
| GP-6A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-6A  | 0.5                 | 1.0              | 1.0              | 0.8              | 0.8              | 1.3              | 0.4              | GP-6A  | 19.8               | 19.1             | 19.4             | 20.0             | 20.0             | 20.3             | 20.1             |
| GP-6B  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-6B  | 0.8                 | 0.7              | 0.7              | 0.5              | 0.9              | 1.5              | 0.8              | GP-6B  | 19.6               | 19.6             | 19.6             | 20.3             | 19.8             | 20.2             | 19.8             |
| GP-7A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-7A  | 0.2                 | 0.2              | 0.3              | 0.3              | 0.2              | 0.5              | 0.3              | GP-7A  | 20.5               | 20.1             | 20.1             | 20.6             | 20.6             | 16.8             | 20.6             |
| GP-7B  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-7B  | 0.1                 | 0.1              | 0.1              | 0.2              | 0.2              | 0.3              | 0.2              | GP-7B  | 20.6               | 20.3             | 20.3             | 20.7             | 20.7             | 21.6             | 20.7             |
| GP-8A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-8A  | 0.2                 | 0.2              | 0.1              | 0.2              | 0.2              | 0.3              | 0.2              | GP-8A  | 20.5               | 20.3             | 20.4             | 20.6             | 20.7             | 21.7             | 20.7             |
| GP-9A  | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-9A  | 0.2                 | 0.2              | 0.1              | 0.2              | 0.2              | 0.2              | 0.2              | GP-9A  | 20.4               | 20.1             | 20.3             | 20.7             | 20.7             | 21.7             | 20.6             |
| GP-10A | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10A | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10A | n/a <sup>1</sup>   | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> |
| GP-10B | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10B | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10B | n/a <sup>1</sup>   | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> |
| GP-10C | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10C | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10C | n/a <sup>1</sup>   | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> |
| GP-10D | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10D | n/a <sup>1</sup>    | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | GP-10D | n/a <sup>1</sup>   | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> | n/a <sup>1</sup> |
| GP-13A | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-13A | 2.0                 | 3.3              | 2.8              | 2.4              | 2.8              | 2.4              | 11.8             | GP-13A | 18.1               | 16.8             | 17.3             | 18.5             | 17.6             | 19.0             | 16.0             |
| GP-14A | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | n/a <sup>1</sup> | GP-14A | 0.9                 | 1.1              | 0.5              | 0.8              | 0.6              | 0.7              | n/a <sup>1</sup> | GP-14A | 19.6               | 19.1             | 20.0             | 20.4             | 19.9             | 20.3             | n/a <sup>1</sup> |
| GP-17A | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-17A | 0.1                 | 0.7              | 0.2              | 0.1              | 0.2              | 0.2              | 10.9             | GP-17A | 20.3               | 19.6             | 20.0             | 20.6             | 20.7             | 21.7             | 20.0             |
| GP-18A | 0.0                 | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | 0.0              | GP-18A | 0.2                 | 0.3              | 0.3              | 0.3              | 0.2              | 0.2              | 10.7             | GP-18A | 19.7               | 19.4             | 19.2             | 20.0             | 20.2             | 21.0             | 20.5             |

**Notes:**

<sup>1</sup>The building associated with these probes has been removed. New building has been constructed and monitored using probe 18A

GP-17A: probe for Hartland Learning Centre (constructed in 2011)

GP-18A: probe for new contractors workshop (constructed in 2011)

**Table 14 Maximum Gas Concentrations in Foundation Probes**

| Probe  | CH <sub>4</sub> (%) | CO <sub>2</sub> (%) |
|--------|---------------------|---------------------|
| GP-04A | 0.0                 | 3.8                 |
| GP-05A | 0.0                 | 1.3                 |
| GP-06A | 0.0                 | 1.3                 |
| GP-06B | 0.0                 | 1.6                 |
| GP-07A | 0.0                 | 0.4                 |
| GP-07B | 0.0                 | 0.3                 |
| GP-08A | 0.0                 | 0.2                 |
| GP-09A | 0.0                 | 0.3                 |
| GP-10A | n/a <sup>1</sup>    | n/a <sup>1</sup>    |
| GP-10B | n/a <sup>1</sup>    | n/a <sup>1</sup>    |
| GP-10C | n/a <sup>1</sup>    | n/a <sup>1</sup>    |
| GP-10D | n/a <sup>1</sup>    | n/a <sup>1</sup>    |
| GP-13A | 0.0                 | 6.0                 |
| GP-14A | 0.0                 | 1.0                 |
| GP-17A | 0.0                 | 0.4                 |
| GP-18A | 0.0                 | 0.3                 |

<sup>1</sup> The building associated with these probes has been removed. New building has been constructed and monitored using probe 18A

## 9.2 Surface Emissions and Hotspot Sampling

Fugitive emissions can occur from advection and/or diffusion via soil pores, gaps and defective cover materials and are monitored routinely through surface monitoring. This monitoring assesses landfill closure integrity, supports worker health and safety, informs operational or capital planning, and supports optimal LFG collection. This monitoring is a simple and low cost means to assess methane and non-methane emissions. Although hotspot locations (also known as Z-points) change over time, they are usually located at breaks or seams of cover systems and near side slopes in Phase 2, where gas collection is a challenge. The locations of all grid points and hotspots, as of August 2022, are shown in Figure 8. A summary of the results is shown in Table 15 and Table 16.

A historical summary of all Z-points is provided in Appendix E. At the end of 2022, there was a total of 26 Z-points identified. There were no elevated hydrogen sulphide concentrations. The absence of hotspots in Phase 1 indicates that the cover and gas collection system in the permanent closure is functioning. Annual monitoring should continue. Hotspots have decreased significantly since the implementation of the *Landfill Gas Management Plan* in 2012.

**Table 15 Summary of Grid Sampling Results 2022**

| Survey date                | August |
|----------------------------|--------|
| Grid points monitored      | 366    |
| # Grid points >100 ppm THC | 19     |

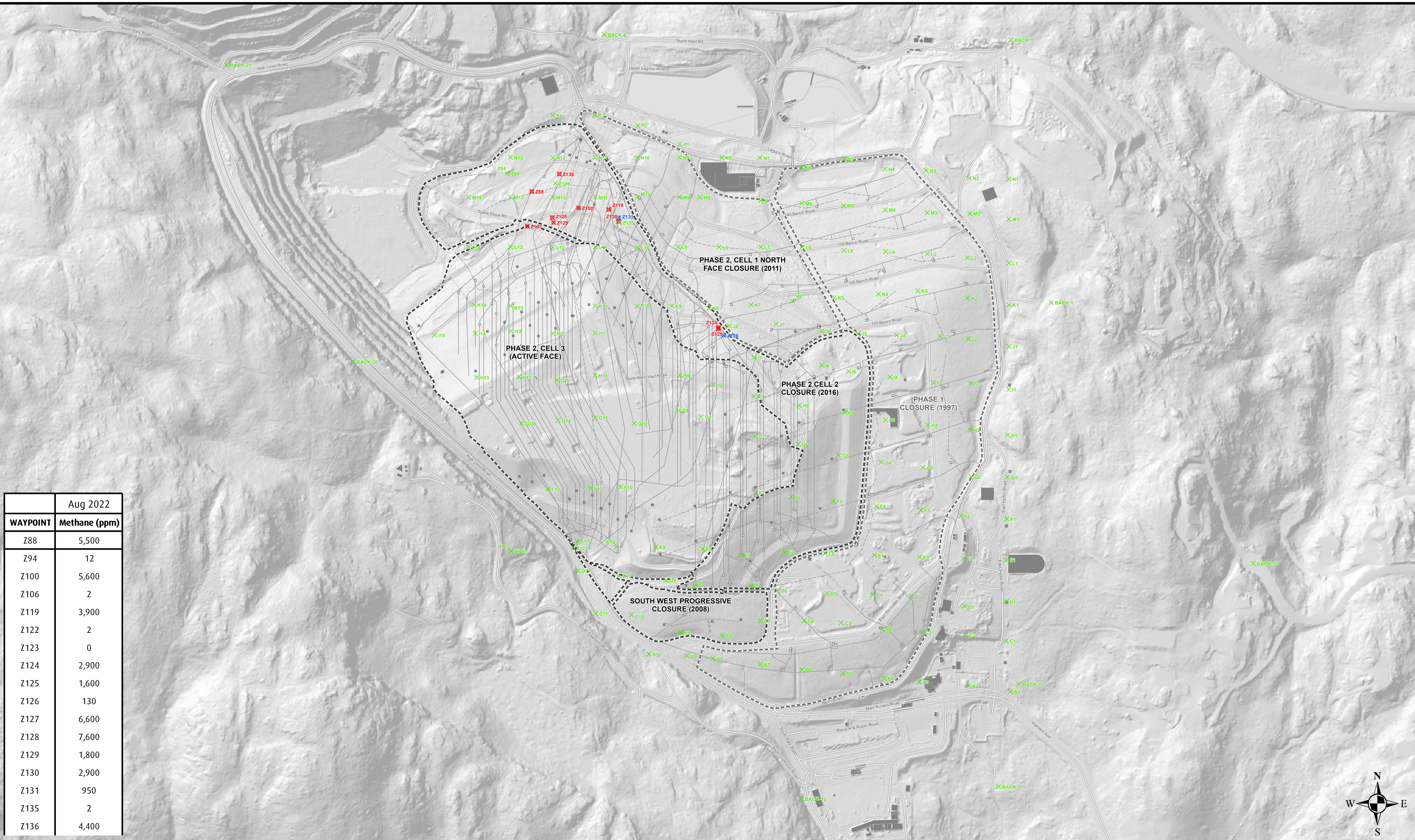
<sup>1</sup> Does not include discontinued, and grid points in Active Face and Controlled Waste areas, where the waypoints could not be accessed at the time of the survey

**Table 16 Summary of Hotspot Results 2022**

| Survey date                        | August |
|------------------------------------|--------|
| Total # hotspots <sup>1</sup>      | 24     |
| New hotspots at end of survey      | 1      |
| Hotspots discontinued <sup>2</sup> | 2      |
| Maximum CH <sub>4</sub> (ppm)      | 7,600  |

<sup>1</sup> Total number of hotspots at the end of the survey date

<sup>2</sup> Hotspots discontinued at the end of the survey date



| Aug 2022 |               |
|----------|---------------|
| WAYPOINT | Methane (ppm) |
| Z88      | 5,500         |
| Z94      | 12            |
| Z100     | 5,600         |
| Z106     | 2             |
| Z119     | 3,900         |
| Z122     | 2             |
| Z123     | 0             |
| Z124     | 2,900         |
| Z125     | 1,600         |
| Z126     | 130           |
| Z127     | 6,600         |
| Z128     | 7,600         |
| Z129     | 1,800         |
| Z130     | 2,900         |
| Z131     | 950           |
| Z135     | 2             |
| Z136     | 4,400         |

0 20 40 60 80 100 Metres  
Projection: UTM ZONE 10N NAD 83

**Important:** This map is for general information purposes only. The Capital Regional District (CRD) makes no representations or warranties regarding the accuracy or completeness of this map for any purpose. **This map is not for navigation.** The CRD will not be liable for any damage, loss or injury resulting from the use of the map or information on the map and the map may be changed by the CRD at any time.

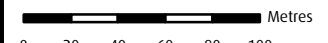
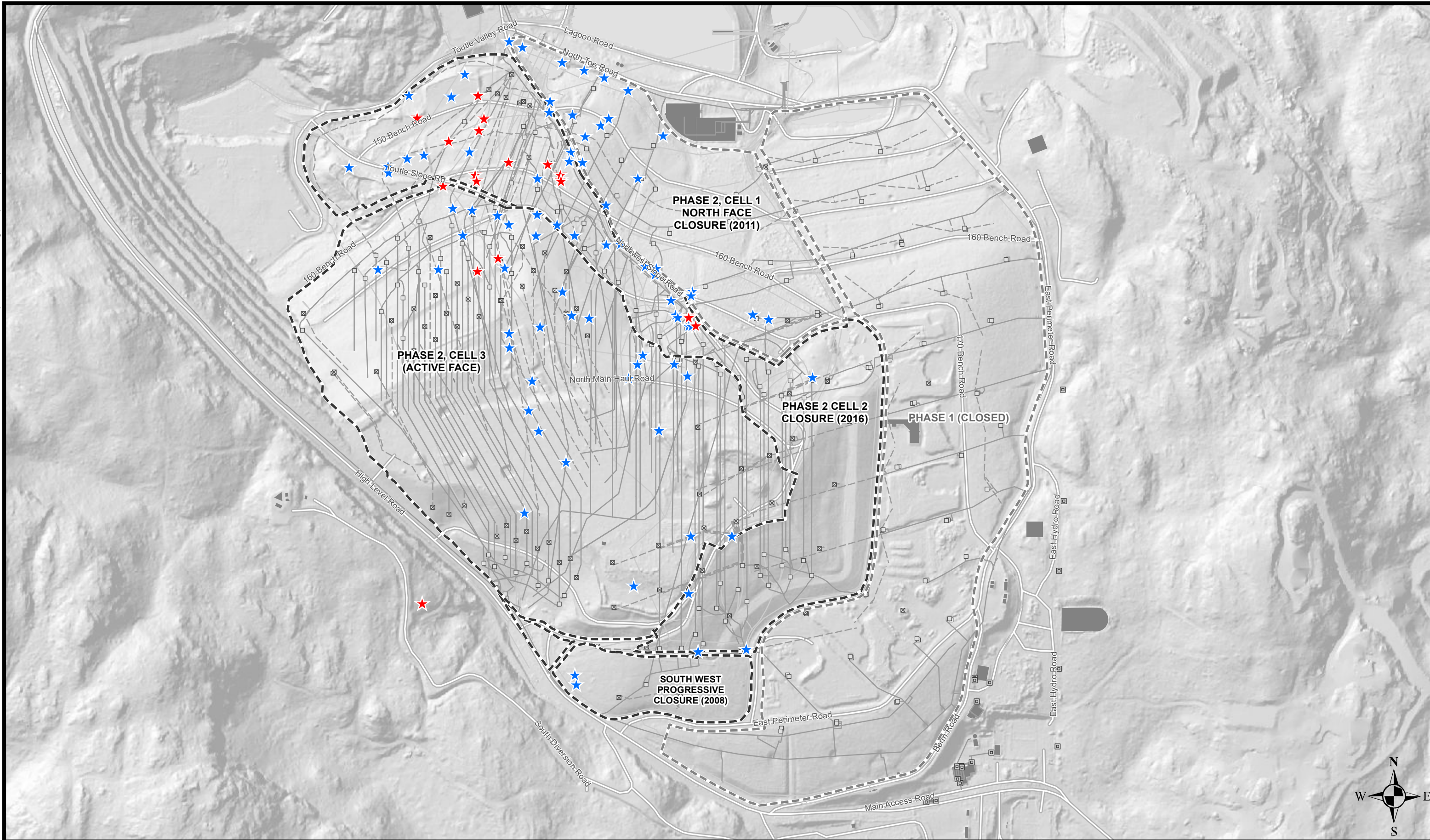
**Combustible Gas Result**  
(parts per million)

- x 0-99 ppm
- x 100-999 ppm
- x 1,000-12,499 ppm
- + >12,500 ppm

- Gas Probes
- Active Gas Wells
- ◻ Abandoned or Inactive Gas Wells
- Active Gas Lines
- - - Abandoned or Inactive Gas Lines
- Leachate Collection Lines
- Roads

- Final Closure Areas
- Progressive Closure Areas
- Structures
- Water Bodies

# HARTLAND LANDFILL AMBIENT AIR MONITORING RESULTS - AUG 2022



Projection: UTM ZONE 10N NAD 83

- ★ Historical Z-Spot Locations (Active)
- ★ Historical Z-Spot Locations (Inactive)
- Gas Probes
- Active Gas Wells
- Abandoned or Inactive Gas Wells
- Active Gas Lines
- Abandoned or Inactive Gas Lines
- Leachate Collection Lines
- Roads
- Final Closure Areas
- Progressive Closure Areas
- Structures
- Water Bodies

# HISTORICAL Z-POINT LOCATIONS

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The following table summarizes LFG monitoring results, compliance, mitigation actions and recommendations.

**Table 17 LFG Compliance Summary**

| Program                              | Compliance Location                                           | Criteria                                                                                                                                                              | Findings                                                                                                             | Mitigation/Actions                                          | Recommendations                                                                                                  |
|--------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Perimeter Probe Monitoring           | Probes GP-1A, 1B, 2A, 2B, 3A, 3B, 11A, 11B, 12A and 12B       | Methane must not exceed 5% in subsurface soils (BC <i>Landfill Criteria for Municipal Solid Waste &amp; BC Landfill Gas Management Facilities Design Guidelines</i> ) | No exceedances<br>Low risk of sub-surface gas migration to adjacent properties                                       | None                                                        | Continue quarterly monitoring.                                                                                   |
| Building Foundation Probe Monitoring | Probes GP- 4A, 5A, 6A, 6B, 7A, 7B, 8A, 9A, 13A, 14A, 17A, 18A | Maximum 1% methane in any on-site facility (BC <i>Landfill Criteria for Municipal Solid Waste &amp; BC Landfill Gas Management Facilities Design Guidelines</i> )     | No exceedances<br>Low risk of subsurface gas migration to adjacent building                                          | None                                                        | Continue quarterly monitoring.                                                                                   |
| Ambient Grid Monitoring              | N/A                                                           | 100 ppm total hydrocarbon (THC), as methane (CRD internal guideline)                                                                                                  | 11 grid locations >100 ppm<br>No cover system failures suspected in the closed area of Phase 1                       | Investigated hot spots and mitigated, where possible.       | Continue annual monitoring.                                                                                      |
| Hot Spot Monitoring                  | N/A                                                           | 1,000 ppm THC (CRD internal guideline)                                                                                                                                | One new hot spot (z-points) >1,000 ppm<br>Currently 22 locations for hot spot investigation                          | Added new locations of hot spots to the monitoring program. | Continue annual monitoring.<br>Investigate mitigation options.                                                   |
| Well Field Monitoring and Balancing  | N/A                                                           | Monitor monthly. Oxygen 2.5% - gas optimization and reduction of fire potential (BC <i>Landfill Gas Management Facilities Design Guidelines</i> )                     | Monitoring completed monthly; Oxygen did not exceed 2.5%                                                             | None                                                        | Continue monthly monitoring at minimum.                                                                          |
| Gas Collection                       | N/A                                                           | 75% gas collection efficiency target by the end of 2016, as per <i>Landfill Gas Management Plan</i>                                                                   | Site specific model (UBCi) estimated collection efficiency at 81%. ENV model estimated collection efficiency at 70%. | <i>Landfill Gas Management Plan</i> submitted to ENV.       | Continue to implement the gas management plan and optimize methane and nitrogen, oxygen levels in the well field |

## **10.0 CONCLUSIONS AND RECOMMENDATIONS**

The following section presents the key findings and recommendations developed from the 2022 LFG monitoring programs at the Hartland Landfill.

### **GAS GENERATION**

Hartland Landfill generates greater than 1,000 tonnes of methane per year and is subject to the BC *Landfill Gas Management Regulation*. In 2022, according to the ENV model the Hartland Landfill is estimated to have generated 8,325 of methane tonnes/year or the equivalent of approximately 233,100 tonnes CO<sub>2e</sub>. Of this total, 68,880 tonnes of CO<sub>2e</sub> were uncaptured (fugitive emissions). Though not recognized under the regulation, alternative gas modeling using the UBCi model, shows CO<sub>2e</sub> emissions (39,699 tonnes CO<sub>2e</sub>) to be substantially less than the ENV model.

### **GAS GENERATION, COLLECTION AND UTILIZATION**

In 2022, the gas extraction network consisted of 145 wells that captured an average of 1,202 scfm of LFG. Well field balancing was completed at least monthly to optimize collection. Well field monitoring and balancing should continue at least monthly, as recommended by the BC *Landfill Gas Management Facilities Design Guidelines*.

At the end of 2022, the efficiency was 70% according to the ENV model. Empirical data and methane mass balance indicates that an alternative gas generation (UBCi) more accurately estimates overall gas production for Hartland. Using this model, collection efficiency in 2022 is estimated to be 81%. The CRD continues to follow the *Landfill Gas Management Plan* design specifications for reaching 75% collection efficiency. Staff continue to monitor and adjust the well field to maximize collection and optimize key gas constituents (methane and nitrogen) in accordance with the Guidelines.

### **OPERATIONAL PERFORMANCE**

The gas plant experienced seven days worth of downtime (i.e., no vacuum applied to the well field) due to power outages and unforeseen events. A back-up generator was installed in August 2020 as back-up power to minimize blower downtime and ensure continuous destruction of landfill gas.

### **MONITORING**

No methane concentrations were observed during foundation and perimeter probe monitoring and, as a result, there is little risk of lateral LFG migration. This monitoring is a regulatory requirement and should continue on a quarterly schedule.

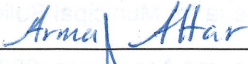
During the 2022 surface emissions grid monitoring, 11 grid locations with methane concentrations >100 ppm were identified. Currently there are 22 locations monitored for hot spot investigation.

## 11.0 REFERENCES

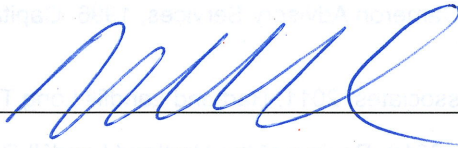
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**12.0 REPORT SIGNOFF**

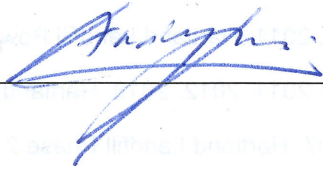
Prepared by: Arma Attar, M.Sc.  
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# **APPENDIX A**

## **Hartland Landfill Gas Generation Model Inputs**

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| <b>A1</b>   | <b>Inputs for Generating Methane Capture Efficiency Models</b>   |
| <b>A2-a</b> | <b>All 2019 Controlled Waste Data</b>                            |
| <b>A2-b</b> | <b>Summary of 2019 Controlled Waste Data</b>                     |
| <b>A2-c</b> | <b>All 2020 Controlled Waste Data</b>                            |
| <b>A2-d</b> | <b>Summary of 2020 Controlled Waste Data</b>                     |
| <b>A2-e</b> | <b>All 2021 Controlled Waste Data</b>                            |
| <b>A2-f</b> | <b>Summary of 2021 Controlled Waste Data</b>                     |
| <b>A2-g</b> | <b>Controlled Waste Composition Used in 2022 Modelling</b>       |
| <b>A2-h</b> | <b>Summary of 2022 Controlled Waste Data</b>                     |
| <b>A2-i</b> | <b>Controlled Waste Composition Summary</b>                      |
| <b>A3-a</b> | <b>Waste Composition Input to ENV Model</b>                      |
| <b>A3-b</b> | <b>Waste Composition Input to UBCi Model</b>                     |
| <b>A4-a</b> | <b>Summary of the Inputs to ENV model</b>                        |
| <b>A4-b</b> | <b>Results of the ENV Model</b>                                  |
| <b>A5</b>   | <b>Results of the UBCi Model</b>                                 |
| <b>A6</b>   | <b>US EPA Oxidation Table Reference for Cover System Capture</b> |



**Appendix A Hartland Landfill Gas Generation Model Inputs**

**A1 Inputs for Generating Methane Capture Efficiency Models**

| Variables                                                              |        | Relatively Inert  | Moderately Decomposable | Decomposable |
|------------------------------------------------------------------------|--------|-------------------|-------------------------|--------------|
| Gas Production potential (m <sup>3</sup> CH <sub>4</sub> /tonne), Lo = |        | 20                | 120                     | 160          |
| Waste Composition, 1980 to                                             | 1995   | 0.336             | 0.248                   | 0.414        |
| Waste Composition, 1996 to                                             | 2000   | 0.338             | 0.405                   | 0.256        |
| Waste Composition, 2001 to                                             | 2004   | 0.266             | 0.396                   | 0.337        |
| Waste Composition, 2005 to                                             | 2009   | 0.331             | 0.369                   | 0.298        |
| Waste Composition, 2010 to                                             | 2013   | 0.314             | 0.391                   | 0.294        |
| Waste Composition, 2014 to                                             | future | 0.327             | 0.427                   | 0.201        |
| Lag time before start of gas production, lag =                         | 1      | Year              |                         |              |
| Historical Data Used (years)                                           | 38     |                   |                         |              |
| 1st Year of Historical Data Used                                       | 1980   |                   |                         |              |
| 4 Years after reporting year                                           | 2024   |                   |                         |              |
| methane (by volume)                                                    | 0.5    |                   |                         |              |
| carbon dioxide (by volume)                                             | 0.5    |                   |                         |              |
| methane (density)                                                      | 0.6557 | kg/m <sup>3</sup> | (25°C,1ATM)             |              |
| carbon dioxide (density)                                               | 1.7988 | kg/m <sup>3</sup> | (25°C,1ATM)             |              |

Appendix A Continued

Appendix A2-a All 2019 Controlled Waste Data

| Type                           | Tonnes            | Classification          | Misc             | Liquid Waste     | Screenings       | Soil          | Asbestos         |
|--------------------------------|-------------------|-------------------------|------------------|------------------|------------------|---------------|------------------|
| Out of region asbestos         | 9.170             | Inert                   |                  |                  |                  |               | 9.170            |
| Spoiled food                   | 2,264.110         | Decomposable            | 2,264.110        |                  |                  |               |                  |
| Contaminated drywall           | 0.650             | Inert                   | 0.650            |                  |                  |               |                  |
| Contaminated soils             | 28.490            | Inert                   |                  |                  |                  | 28.490        |                  |
| Dead animals                   | 48.680            | Decomposable            | 48.680           |                  |                  |               |                  |
| Fibre optic cable              | 14.300            | Inert                   | 14.300           |                  |                  |               |                  |
| Food processing waste          | 58.840            | Decomposable            | 58.840           |                  |                  |               |                  |
| Health hazard waste            | 166.920           | Miscellaneous           | 166.920          |                  |                  |               |                  |
| Miscellaneous controlled waste | 90.420            | Miscellaneous           | 90.420           |                  |                  |               |                  |
| Pumpings                       | 22.470            | Moderately Decomposable |                  | 22.470           |                  |               |                  |
| Pumpings (sewage)              | 503.450           | Moderately Decomposable |                  | 503.450          |                  |               |                  |
| Pumpings (drainage sumps)      | 838.980           | Moderately Decomposable |                  | 838.980          |                  |               |                  |
| Vehicle washing facility waste | 16.300            | Inert                   |                  | 16.300           |                  |               |                  |
| Sewage screenings              | 1,053.630         | Moderately Decomposable |                  |                  | 1,053.630        |               |                  |
| Spent charcoal                 | 87.780            | Moderately Decomposable | 87.780           |                  |                  |               |                  |
| Waste asbestos                 | 3,804.270         | Inert                   |                  |                  |                  |               | 3,804.270        |
| Sewage sludge                  | 6,084.980         | Moderately Decomposable |                  |                  | 6,084.980        |               |                  |
| Animal fecal waste             | 33.380            | Decomposable            | 33.380           |                  |                  |               |                  |
| Surface coating waste          | 197.740           | Inert                   | 197.740          |                  |                  |               |                  |
| Knotweed                       | 0.700             | Decomposable            | 0.700            |                  |                  |               |                  |
|                                | <b>15,325.260</b> |                         | <b>2,963.520</b> | <b>1,381.200</b> | <b>7,138.610</b> | <b>28.490</b> | <b>3,813.440</b> |

Appendix A, continued

Appendix A2-b Summary of 2019 Controlled Waste Data

| Type                           | Sum of Tonnes    |
|--------------------------------|------------------|
| <b>Decomposable</b>            | <b>2,405.71</b>  |
| animal fecal waste             | 33.38            |
| dead animals                   | 48.68            |
| food processing waste          | 58.84            |
| knotweed                       | 0.7              |
| spoiled food                   | 2,264.11         |
| <b>Inert</b>                   | <b>4,070.92</b>  |
| contaminated drywall           | 0.65             |
| contaminated soils             | 28.49            |
| fibre optic cable              | 14.3             |
| out of region asbestos         | 9.17             |
| surface coating waste          | 197.74           |
| vehicle washing facility waste | 16.3             |
| waste asbestos                 | 3,804.27         |
| <b>Miscellaneous</b>           | <b>257.34</b>    |
| health hazard waste            | 166.92           |
| miscellaneous controlled waste | 90.42            |
| <b>Moderately Decomposable</b> | <b>8,591.29</b>  |
| pumpings                       | 22.47            |
| pumpings (drainage sumps)      | 838.98           |
| pumpings (sewage)              | 503.45           |
| sewage screenings              | 1,053.63         |
| sewage sludge                  | 6,084.98         |
| spent charcoal                 | 87.78            |
| <b>Grand Total</b>             | <b>15,325.26</b> |

Appendix A, continued

Appendix A2-c All 2020 Controlled Waste Data

| Type                           | Tonnes            | Classification          | Misc           | Liquid Waste     | Screenings        | Soil          | Asbestos         |
|--------------------------------|-------------------|-------------------------|----------------|------------------|-------------------|---------------|------------------|
| Sewage screenings              | 7.710             | moderately decomposable | 7.710          |                  |                   |               |                  |
| Out of region asbestos         | 30.860            | inert                   |                |                  |                   |               | 30.860           |
| Spoiled food                   | 43.340            | decomposable            | 43.340         |                  |                   |               |                  |
| Contaminated drywall           | 0.140             | inert                   | 0.140          |                  |                   |               |                  |
| Contaminated soils             | 27.310            | inert                   |                |                  |                   | 27.310        |                  |
| Dead animals                   | 52.240            | decomposable            | 52.240         |                  |                   |               |                  |
| Fibre optic cable              | 17.640            | inert                   | 17.640         |                  |                   |               |                  |
| Food processing waste          | 65.360            | decomposable            | 65.360         |                  |                   |               |                  |
| Health hazard waste            | 87.660            | miscellaneous           | 87.660         |                  |                   |               |                  |
| Miscellaneous controlled waste | 496.850           | miscellaneous           | 496.850        |                  |                   |               |                  |
| Pumpings (sewage)              | 285.400           | moderately decomposable |                | 285.400          |                   |               |                  |
| Pumpings residual sludge       |                   | moderately decomposable |                | 0.000            |                   |               |                  |
| Pumpings (drainage sumps)      | 735.380           | moderately decomposable |                | 735.380          |                   |               |                  |
| Sewage screenings              | 1,033.100         | moderately decomposable |                |                  | 1,033.100         |               |                  |
| Spent charcoal                 | 27.070            | decomposable            | 27.070         |                  |                   |               |                  |
| Waste asbestos                 | 3,061.690         | inert                   |                |                  |                   |               | 3,061.690        |
| Sewage sludge                  | 10,199.640        | moderately decomposable |                |                  | 10,199.640        |               |                  |
| Animal fecal waste             | 30.710            | decomposable            | 30.710         |                  |                   |               |                  |
| Surface coating waste          | 67.290            | inert                   | 67.290         |                  |                   |               |                  |
| Knotweed                       | 11.860            | decomposable            | 11.860         |                  |                   |               |                  |
| Vermiculite                    | 0.260             | decomposable            | 0.260          |                  |                   |               |                  |
| International waste            | 17.910            | miscellaneous           | 17.910         |                  |                   |               |                  |
|                                | <b>16,299.420</b> |                         | <b>926.040</b> | <b>1,020.780</b> | <b>11,232.740</b> | <b>27.310</b> | <b>3,092.550</b> |

Appendix A, continued

Appendix A2-d Summary of 2020 Controlled Waste Data

| Type                           | Sum of Tonnes    |
|--------------------------------|------------------|
| <b>Decomposable</b>            | <b>230.84</b>    |
| animal fecal waste             | 30.71            |
| dead animals                   | 52.24            |
| food processing waste          | 65.36            |
| knotweed                       | 11.86            |
| vermiculite                    | 0.26             |
| spent charcoal                 | 27.07            |
| spoiled food                   | 43.34            |
| <b>Inert</b>                   | <b>3,204.93</b>  |
| contaminated drywall           | 0.14             |
| contaminated soils             | 27.31            |
| fibre optic cable              | 17.64            |
| out of region asbestos         | 30.86            |
| surface coating waste          | 67.29            |
| waste asbestos                 | 3,061.69         |
| <b>Miscellaneous</b>           | <b>602.42</b>    |
| health hazard waste            | 87.66            |
| international waste            | 17.91            |
| miscellaneous controlled waste | 496.85           |
| <b>Moderately decomposable</b> | <b>12,261.23</b> |
| pumpings (drainage sumps)      | 735.38           |
| pumpings (sewage)              | 285.4            |
| pumpings residual sludge       |                  |
| sewage screenings              | 1,040.81         |
| sewage sludge                  | 10,199.64        |
| <b>Grand Total</b>             | <b>16,299.42</b> |

Appendix A, continued

Appendix A2-e All 2021 Controlled Waste Data

| Type                           | Tonnes            | Classification        | Misc           | Liquid Waste      | Screenings       | Soil          | Asbestos         |
|--------------------------------|-------------------|-----------------------|----------------|-------------------|------------------|---------------|------------------|
| Out of region asbestos         | 64.320            | Inert                 |                |                   |                  |               | 64.320           |
| Film plastic out               |                   | Inert                 |                |                   |                  |               |                  |
| Mattress recycle               |                   | Inert                 |                |                   |                  |               |                  |
| Spoiled food                   | 72.570            | Decomposable          | 72.570         |                   |                  |               |                  |
| Contaminated drywall           | 0.540             | Inert                 | 0.540          |                   |                  |               |                  |
| Contaminated soils             | 27.620            | Inert                 |                |                   |                  | 27.620        |                  |
| Dead animals                   | 76.850            | Decomposable          | 76.850         |                   |                  |               |                  |
| Fibre optic cable              | 44.900            | Inert                 | 44.900         |                   |                  |               |                  |
| Food processing waste          | 25.590            | Decomposable          | 25.590         |                   |                  |               |                  |
| Health hazard waste            | 67.660            | Miscellaneous         | 67.660         |                   |                  |               |                  |
| Miscellaneous controlled waste | 127.540           | Miscellaneous         | 127.540        |                   |                  |               |                  |
| Pumpings                       | 40.660            | Moderate Decomposable |                | 40.660            |                  |               |                  |
| Pumpings (sewage)              | 3,040.190         | Moderate Decomposable |                | 3,040.190         |                  |               |                  |
| Pumpings residual sludge       |                   | Moderate Decomposable |                | 0.000             |                  |               |                  |
| Pumpings (drainage sumps)      | 830.750           | Moderate Decomposable |                | 830.750           |                  |               |                  |
| Vehicle washing facility waste |                   | Inert                 |                | 0.000             |                  |               |                  |
| Sewage screenings              | 1,913.300         | Moderate Decomposable |                |                   | 1,913.300        |               |                  |
| Sharps                         | -                 | Inert                 | 0.000          |                   |                  |               |                  |
| Soot                           | 1.640             | Decomposable          | 1.640          |                   |                  |               |                  |
| Spent charcoal                 | 31.190            | Decomposable          | 31.190         |                   |                  |               |                  |
| Waste asbestos                 | 4,069.300         | Inert                 |                |                   |                  |               | 4,069.300        |
| Sewage sludge                  | 13,414.890        | Moderate Decomposable |                | 13,414.890        |                  |               |                  |
| Animal fecal waste             | 39.360            | Decomposable          | 39.360         |                   |                  |               |                  |
| Surface coating waste          | 116.750           | Inert                 | 116.750        |                   |                  |               |                  |
| Knotweed                       | 25.920            | Decomposable          | 25.920         |                   |                  |               |                  |
| Vermiculite                    | 0.210             | Inert                 | 0.210          |                   |                  |               |                  |
| International waste            | 22.010            | Miscellaneous         | 22.010         |                   |                  |               |                  |
| <b>Totals</b>                  | <b>24,053.760</b> |                       | <b>652.730</b> | <b>17,326.490</b> | <b>1,913.300</b> | <b>27.620</b> | <b>4,133.620</b> |



Appendix A, continued

Appendix A2-f Summary of 2021 Controlled Waste Data

| Type                           | Sum of Tonnes    |
|--------------------------------|------------------|
| <b>Decomposable</b>            | <b>273.12</b>    |
| animal fecal waste             | 39.36            |
| dead animals                   | 76.85            |
| food processing waste          | 25.59            |
| knotweed                       | 25.92            |
| soot                           | 1.64             |
| spent charcoal                 | 31.19            |
| spoiled food                   | 72.57            |
| <b>Inert</b>                   | <b>4,323.64</b>  |
| contaminated drywall           | 0.54             |
| contaminated soils             | 27.62            |
| fibre optic cable              | 44.9             |
| film plastic out               |                  |
| mattress recycle               |                  |
| vermiculite                    | 0.21             |
| out of region asbestos         | 64.32            |
| sharps                         | 0                |
| surface coating waste          | 116.75           |
| Vehicle washing facility waste |                  |
| waste asbestos                 | 4069.3           |
| <b>Miscellaneous</b>           | <b>217.21</b>    |
| health hazard waste            | 67.66            |
| international waste            | 22.01            |
| miscellaneous controlled waste | 127.54           |
| <b>Moderate Decomposable</b>   | <b>19,239.79</b> |
| pumpings                       | 40.66            |
| pumpings (drainage sumps)      | 830.75           |
| pumpings (sewage)              | 3,040.19         |
| pumpings residual sludge       |                  |
| sewage screenings              | 1,913.3          |
| sewage sludge                  | 13,414.89        |
| <b>Grand Total</b>             | <b>24,053.76</b> |

Appendix A2-g Controlled Waste Composition Used in 2022 Modelling

| Year         | Controlled Waste Composition |                         |              |
|--------------|------------------------------|-------------------------|--------------|
|              | Relatively Inert             | Moderately Decomposable | Decomposable |
| 2014 to 2019 | 27.4%                        | 56.9%                   | 15.7%        |
| 2020         | 21.5%                        | 77.1%                   | 1.4%         |
| 2021         | 18.43%                       | 80.43%                  | 1.14%        |
| 2022         | 28%                          | 70%                     | 2%           |

Appendix A, continued

Appendix A2-h Summary of 2022 Controlled Waste Data

| Type                             | Sum of Tonnes    |
|----------------------------------|------------------|
| <b>Decomposable</b>              | <b>334.39</b>    |
| animal fecal waste               | 43.16            |
| dead animals                     | 52.58            |
| food processing waste            | 30.35            |
| knotweed                         | 23.30            |
| soot                             | 0.04             |
| spent charcoal                   | 62.85            |
| spoiled food                     | 122.11           |
| <b>Inert</b>                     | <b>4,220.42</b>  |
| contaminated drywall             | 0                |
| contaminated soils               | 58.48            |
| fibre optic cable                | 16.92            |
| out of region asbestos           | 575.37           |
| waste asbestos                   | 3,569.65         |
| <b>Inert</b>                     | <b>62.46</b>     |
| sharps                           | 0.00             |
| surface coating waste            | 57.88            |
| vehicle washing facility waste   | 4.58             |
| <b>Miscellaneous</b>             | <b>3,810.08</b>  |
| health hazard waste              | 47.88            |
| international waste              | 2,863.47         |
| miscellaneous controlled waste   | 637.88           |
| non-hazardous solids, soil, sand | 260.85           |
| <b>Moderate Decomposable</b>     | <b>13,549.96</b> |
| pumpings (drainage sumps)        | 709.09           |
| pumpings (sewage)                | 517.97           |
| pumpings residual sludge         | 6.35             |
| sewage screenings                | 1,906.67         |
| sewage sludge                    | 10,409.88        |
| <b>Grand Total</b>               | <b>21,977.31</b> |

Appendix A, continued

Appendix A2-i Controlled Waste Composition Summary

| Year        | Decomposable (tonne) | Decomposable % | Moderately Decomposable (tonne) | Moderately Decomposable % | Inert (tonne) | Inert % | Miscellaneous (tonne) | Miscellaneous % | Total (tonne) |
|-------------|----------------------|----------------|---------------------------------|---------------------------|---------------|---------|-----------------------|-----------------|---------------|
| 2019        | 2,405.71             | 15.7%          | 8,591.29                        | 56.1%                     | 4,070.92      | 27%     | 257.34                | 2%              | 15,326.24     |
| 2020        | 230.84               | 1.4%           | 12,261.23                       | 75.2%                     | 3,204.93      | 20%     | 602.42                | 4%              | 16,300.38     |
| 2021        | 273.12               | 1.1%           | 19,239.79                       | 80.0%                     | 4,323.64      | 18%     | 217.21                | 1%              | 24,054.75     |
| <b>2022</b> | 334.39               | 2%             | 13,549.96                       | 62%                       | 4,282.88      | 19%     | 3,810.08              | 0.173364256     | 21,978.1366   |

| Year         | Controlled Waste Composition |                         |              | Total  |
|--------------|------------------------------|-------------------------|--------------|--------|
|              | Relatively Inert             | Moderately Decomposable | Decomposable |        |
| 2014 to 2019 | 27.4%                        | 56.9%                   | 15.7%        | 100.0% |
| 2020         | 21.5%                        | 77.1%                   | 1.4%         | 100.0% |
| 2021         | 18.43%                       | 80.43%                  | 1.14%        | 100.0% |
| <b>2022</b>  | 28%                          | 70%                     | 2%           | 100.0% |

**Appendix A, continued**

**Appendix A3-a Waste Composition Input to ENV Model**

The ENV model waste composition for MSW is as follow, however, the overall waste composition depends on tonnages of MSW and Controlled waste.

|             | Relatively Inert | Moderately Decomposable | Decomposable |
|-------------|------------------|-------------------------|--------------|
| 1981 - 2013 | 35.1%            | 37.2%                   | 27.7%        |
| 2014 - 2015 | 35.8%            | 39.8%                   | 24.4%        |
| 2016 - 2021 | 36.8%            | 42.1%                   | 21.1%        |
| 2022 - 2027 | 40.9%            | 42.4%                   | 16.7%        |

*Waste Characterization Summary:* For “current condition” scenario, using the 2010 and 2016 waste compositions report by Tetra Tech in their 2016 report, three different compositions were developed grouping the waste components into the categories required by the ENV Model. In calculation of each category’s percentages we made the following assumptions based on the details provided in Tetra Tech’s report.

- Moderately Decomposable: Including wood waste, paper, textile, 20% of “composite products”, and 50% of “other” (to account for diapers),
- Decomposable: Including food waste and yard waste.

**Appendix A, continued**

**Appendix A3-b Waste Composition Input to UBCi Model**

UBCi Model waste composition (categories) for MSW are as follows:

|     |                | UBCiModel - Input DOC used for Hartland Advanced LFG Modeling |        |       |       |         |         |        |         |
|-----|----------------|---------------------------------------------------------------|--------|-------|-------|---------|---------|--------|---------|
|     |                | Food                                                          | Garden | Paper | Wood  | Textile | Nappies | Inerts | Total   |
| MSW | Up to 2013     | 21.7%                                                         | 6.0%   | 15.5% | 12.5% | 5.6%    | 3.9%    | 34.9%  | 100.00% |
|     | 2014 & 2015    | 20.6%                                                         | 3.8%   | 15.5% | 14.9% | 5.9%    | 3.8%    | 35.5%  | 100.00% |
|     | 2016 to 2021   | 19.5%                                                         | 1.6%   | 15.4% | 17.4% | 6.3%    | 3.7%    | 36.1%  | 100.00% |
|     | 2022 to Future | 13.6%                                                         | 3.1%   | 14.2% | 19.3% | 5.5%    | 3.7%    | 40.5%  | 100.00% |

**Appendix A, continued**

**Appendix A4-a Summary of the Inputs to ENV Model**

|                                            |                      |                                     |
|--------------------------------------------|----------------------|-------------------------------------|
| Year of Report                             | 2022                 |                                     |
| Annual Tonnage in Preceding Year           | 190,209              | (tonnes/year)                       |
| Total waste in Place in the Preceding Year | 6,439,767            | (tonnes/year)                       |
| Methane generation in the Preceding Year   | 8,192                | (tonnes CH <sub>4</sub> /year)      |
|                                            |                      |                                     |
| <b>Next Five Years</b>                     | <b>Waste Tonnage</b> | <b>Methane Generation</b>           |
|                                            | <b>(tonnes)</b>      | <b>(tonnes CH<sub>4</sub>/year)</b> |
| 2022                                       | 201,980              | 8,325                               |
| 2023                                       | 204,202              | 8,418                               |
| 2024                                       | 206,448              | 8,517                               |
| 2025                                       | 208,719              | 8,621                               |
| 2026                                       | 211,015              | 8,729                               |

Appendix A, continued

Appendix A4-b Results of the ENV Model

|      |        | Waste Tonnage |                |                  |              |              | Methane Generation Rate, k |                       |                       | Annual      | Annual               |
|------|--------|---------------|----------------|------------------|--------------|--------------|----------------------------|-----------------------|-----------------------|-------------|----------------------|
|      |        | Annual        | Cumulative     |                  | Moderately   |              |                            | Moderately            |                       | Methane     | Landfill Gas         |
| Year | Year   | Tonnage       | Waste-in-place | Relatively Inert | Decomposable | Decomposable | Relatively Inert           | Decomposable          | Decomposable          | Production  | Production           |
|      | Number | (tonnes)      | (tonnes)       | (tonnes)         | (tonnes)     | (tonnes)     | (year <sup>-1</sup> )      | (year <sup>-1</sup> ) | (year <sup>-1</sup> ) | (tonnes/yr) | (m <sup>3</sup> /hr) |
| 1980 | 1      | 111,037       | 111,037        | 38,974           | 41,306       | 30,757       | 0.02                       | 0.04                  | 0.09                  | 0           | -                    |
| 1981 | 2      | 118,253       | 229,290        | 41,507           | 43,990       | 32,756       | 0.02                       | 0.04                  | 0.09                  | 431         | 150                  |
| 1982 | 3      | 125,941       | 355,231        | 44,205           | 46,850       | 34,886       | 0.02                       | 0.04                  | 0.09                  | 859         | 299                  |
| 1983 | 4      | 134,127       | 489,358        | 47,079           | 49,895       | 37,153       | 0.02                       | 0.04                  | 0.09                  | 1,287       | 448                  |
| 1984 | 5      | 142,845       | 632,203        | 50,139           | 53,138       | 39,568       | 0.02                       | 0.04                  | 0.09                  | 1,717       | 598                  |
| 1985 | 6      | 152,130       | 784,333        | 53,398           | 56,592       | 42,140       | 0.02                       | 0.04                  | 0.09                  | 2,152       | 749                  |
| 1986 | 7      | 167,473       | 951,806        | 58,783           | 62,300       | 46,390       | 0.02                       | 0.04                  | 0.09                  | 2,593       | 903                  |
| 1987 | 8      | 177,686       | 1,129,492      | 62,368           | 66,099       | 49,219       | 0.02                       | 0.04                  | 0.09                  | 3,063       | 1,067                |
| 1988 | 9      | 184,193       | 1,313,685      | 64,652           | 68,520       | 51,021       | 0.02                       | 0.04                  | 0.09                  | 3,541       | 1,233                |
| 1989 | 10     | 188,750       | 1,502,435      | 66,251           | 70,215       | 52,284       | 0.02                       | 0.04                  | 0.09                  | 4,012       | 1,397                |
| 1990 | 11     | 187,476       | 1,689,911      | 65,804           | 69,741       | 51,931       | 0.02                       | 0.04                  | 0.09                  | 4,469       | 1,556                |
| 1991 | 12     | 175,957       | 1,865,868      | 61,761           | 65,456       | 48,740       | 0.02                       | 0.04                  | 0.09                  | 4,891       | 1,703                |
| 1992 | 13     | 162,328       | 2,028,196      | 56,977           | 60,386       | 44,965       | 0.02                       | 0.04                  | 0.09                  | 5,240       | 1,824                |
| 1993 | 14     | 159,430       | 2,187,626      | 55,960           | 59,308       | 44,162       | 0.02                       | 0.04                  | 0.09                  | 5,513       | 1,920                |
| 1994 | 15     | 156,285       | 2,343,911      | 54,856           | 58,138       | 43,291       | 0.02                       | 0.04                  | 0.09                  | 5,759       | 2,005                |
| 1995 | 16     | 159,993       | 2,503,904      | 56,158           | 59,517       | 44,318       | 0.02                       | 0.04                  | 0.09                  | 5,977       | 2,081                |
| 1996 | 17     | 157,527       | 2,661,431      | 55,292           | 58,600       | 43,635       | 0.02                       | 0.04                  | 0.09                  | 6,196       | 2,157                |
| 1997 | 18     | 149,430       | 2,810,861      | 52,450           | 55,588       | 41,392       | 0.02                       | 0.04                  | 0.09                  | 6,392       | 2,226                |
| 1998 | 19     | 138,080       | 2,948,941      | 48,466           | 51,366       | 38,248       | 0.02                       | 0.04                  | 0.09                  | 6,545       | 2,279                |
| 1999 | 20     | 138,174       | 3,087,115      | 48,499           | 51,401       | 38,274       | 0.02                       | 0.04                  | 0.09                  | 6,646       | 2,314                |
| 2000 | 21     | 142,239       | 3,229,354      | 49,926           | 52,913       | 39,400       | 0.02                       | 0.04                  | 0.09                  | 6,742       | 2,347                |
| 2001 | 22     | 138,533       | 3,367,887      | 48,625           | 51,534       | 38,374       | 0.02                       | 0.04                  | 0.09                  | 6,849       | 2,385                |
| 2002 | 23     | 146,325       | 3,514,212      | 51,360           | 54,433       | 40,532       | 0.02                       | 0.04                  | 0.09                  | 6,936       | 2,415                |
| 2003 | 24     | 148,225       | 3,662,437      | 52,027           | 55,140       | 41,058       | 0.02                       | 0.04                  | 0.09                  | 7,049       | 2,454                |

Appendix A, continued

|      |        | Waste Tonnage |                |                  |              |              | Methane Generation Rate, k |                       |                       | Annual      | Annual               |
|------|--------|---------------|----------------|------------------|--------------|--------------|----------------------------|-----------------------|-----------------------|-------------|----------------------|
|      |        | Annual        | Cumulative     |                  | Moderately   |              |                            | Moderately            |                       | Methane     | Landfill Gas         |
| Year | Year   | Tonnage       | Waste-in-place | Relatively Inert | Decomposable | Decomposable | Relatively Inert           | Decomposable          | Decomposable          | Production  | Production           |
|      | Number | (tonnes)      | (tonnes)       | (tonnes)         | (tonnes)     | (tonnes)     | (year <sup>-1</sup> )      | (year <sup>-1</sup> ) | (year <sup>-1</sup> ) | (tonnes/yr) | (m <sup>3</sup> /hr) |
| 2004 | 25     | 154,113       | 3,816,550      | 54,094           | 57,330       | 42,689       | 0.02                       | 0.04                  | 0.09                  | 7,163       | 2,494                |
| 2005 | 26     | 163,040       | 3,979,590      | 57,227           | 60,651       | 45,162       | 0.02                       | 0.04                  | 0.09                  | 7,294       | 2,540                |
| 2006 | 27     | 166,820       | 4,146,410      | 58,554           | 62,057       | 46,209       | 0.02                       | 0.04                  | 0.09                  | 7,452       | 2,595                |
| 2007 | 28     | 174,537       | 4,320,947      | 61,262           | 64,928       | 48,347       | 0.02                       | 0.04                  | 0.09                  | 7,616       | 2,652                |
| 2008 | 29     | 166,722       | 4,487,669      | 58,519           | 62,021       | 46,182       | 0.02                       | 0.04                  | 0.09                  | 7,799       | 2,716                |
| 2009 | 30     | 161,194       | 4,648,863      | 56,579           | 59,964       | 44,651       | 0.02                       | 0.04                  | 0.09                  | 7,942       | 2,765                |
| 2010 | 31     | 152,062       | 4,800,925      | 53,374           | 56,567       | 42,121       | 0.02                       | 0.04                  | 0.09                  | 8,054       | 2,804                |
| 2011 | 32     | 144,180       | 4,945,105      | 50,607           | 53,635       | 39,938       | 0.02                       | 0.04                  | 0.09                  | 8,125       | 2,829                |
| 2012 | 33     | 136,763       | 5,081,868      | 48,004           | 50,876       | 37,883       | 0.02                       | 0.04                  | 0.09                  | 8,163       | 2,842                |
| 2013 | 34     | 131,418       | 5,213,286      | 46,128           | 48,887       | 36,403       | 0.02                       | 0.04                  | 0.09                  | 8,170       | 2,845                |
| 2014 | 35     | 128,045       | 5,341,331      | 45,177           | 52,311       | 30,557       | 0.02                       | 0.04                  | 0.09                  | 8,158       | 2,841                |
| 2015 | 36     | 123,381       | 5,464,712      | 43,252           | 50,976       | 29,153       | 0.02                       | 0.04                  | 0.09                  | 8,103       | 2,822                |
| 2016 | 37     | 146,705       | 5,611,417      | 52,809           | 63,618       | 30,278       | 0.02                       | 0.04                  | 0.09                  | 8,038       | 2,799                |
| 2017 | 38     | 154,472       | 5,765,889      | 55,592           | 67,007       | 31,873       | 0.02                       | 0.04                  | 0.09                  | 8,032       | 2,797                |
| 2018 | 39     | 159,942       | 5,925,831      | 57,589           | 69,335       | 33,018       | 0.02                       | 0.04                  | 0.09                  | 8,056       | 2,805                |
| 2019 | 40     | 163,002       | 6,088,833      | 58,544           | 70,892       | 33,566       | 0.02                       | 0.04                  | 0.09                  | 8,101       | 2,821                |
| 2020 | 41     | 160,727       | 6,249,560      | 56,654           | 73,371       | 30,702       | 0.02                       | 0.04                  | 0.09                  | 8,157       | 2,840                |
| 2021 | 42     | 190,209       | 6,439,769      | 65,578           | 89,299       | 35,332       | 0.02                       | 0.04                  | 0.09                  | 8,192       | 2,852                |
| 2022 | 43     | 201,980       | 6,641,747      | 79,887           | 91,698       | 30,395       | 0.02                       | 0.04                  | 0.09                  | 8,325       | 2,899                |
| 2023 | 44     | 204,202       | 6,845,949      | 80,797           | 92,639       | 30,766       | 0.02                       | 0.04                  | 0.09                  | 8,418       | 2,931                |
| 2024 | 45     | 206,448       | 7,052,397      | 81,717           | 93,590       | 31,141       | 0.02                       | 0.04                  | 0.09                  | 8,517       | 2,965                |
| 2025 | 46     | 208,719       | 7,261,117      | 82,646           | 94,552       | 31,520       | 0.02                       | 0.04                  | 0.09                  | 8,621       | 3,002                |
| 2026 | 47     | 211,015       | 7,472,132      | 83,586           | 95,525       | 31,904       | 0.02                       | 0.04                  | 0.09                  | 8,729       | 3,039                |
| 2027 | 48     | 213,336       | 7,685,468      | 84,537           | 96,508       | 32,292       | 0.02                       | 0.04                  | 0.09                  | 8,842       | 3,079                |



Appendix A, continued

Appendix A4-b Results of the ENV Model (continued)

| Waste Type              | Methane Generation Potential $L_0$ (m <sup>3</sup> methane/tonne) | Methane Generation Rate (k) Values |
|-------------------------|-------------------------------------------------------------------|------------------------------------|
| Relatively Inert        | 20                                                                | 0.02                               |
| Moderately Decomposable | 120                                                               | 0.04                               |
| Decomposable            | 160                                                               | 0.09                               |

Appendix A5 Results of the UBCi Model

| Year | Captured LFG, CH <sub>4</sub>       |                                       |                              | Generation Estimate (tonnes/year) |             | Methane Capture Efficiency |             |
|------|-------------------------------------|---------------------------------------|------------------------------|-----------------------------------|-------------|----------------------------|-------------|
|      | SCFM, LFG (at 50% CH <sub>4</sub> ) | m <sup>3</sup> /hr (CH <sub>4</sub> ) | tonnes/yr (CH <sub>4</sub> ) | UBCi Model                        | ENV AR Tool | UBCi Model                 | ENV AR Tool |
| 2022 | 1,201.7                             | 1,020.9                               | 5,863.7                      | 7,283.0                           | 8,325.1     | 81%                        | 70%         |

Notes:

|                               |        |                                 |
|-------------------------------|--------|---------------------------------|
| methane (density) - 1atm, 25C | 0.6557 | kg/m <sup>3</sup> (ENV AR Tool) |
|-------------------------------|--------|---------------------------------|

Appendix A, continued

Appendix A6 US EPA Oxidation Table Reference for Cover System Capture

| Conditions (C1 to C7)                                                                                                                                                                                                                                                                                                                 | CH <sub>4</sub> Oxidation Fraction |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>I. For all reporting years prior to 2013 reporting year</b>                                                                                                                                                                                                                                                                        |                                    |
| C1. For all landfills regardless of cover type or methane flux                                                                                                                                                                                                                                                                        | 0.10                               |
| <b>II. For 2013 reporting year and all subsequent years</b>                                                                                                                                                                                                                                                                           |                                    |
| C2. For landfills that have a geomembrane (synthetic) cover or other non-soil barrier meeting the definition of final cover with less than 300 mm of cover soil for greater than 50% of the landfill area containing waste                                                                                                            | 0.0                                |
| C3. For landfills that do not meet the conditions in C2 above and for which you elect not to determine CH <sub>4</sub> flux                                                                                                                                                                                                           | 0.10                               |
| C4. For landfills that do not meet the conditions in C2 or C3 above and that do not have final cover, or intermediate or interim cover <sup>a</sup> for greater than 50% of the landfill area containing waste                                                                                                                        | 0.10                               |
| C5. For landfills that do not meet the conditions in C2 or C3 above and that have final cover, or intermediate or interim cover <sup>a</sup> for greater than 50% of the landfill area containing waste and for which the CH <sub>4</sub> flux rate <sup>b</sup> is less than 10 grams per square meter per day (g/m <sup>2</sup> /d) | 0.35                               |
| C6. For landfills that do not meet the conditions in C2 or C3 above and that have final cover or intermediate or interim cover <sup>a</sup> for greater than 50% of the landfill area containing waste and for which the CH <sub>4</sub> flux rate <sup>b</sup> is 10 to 70 g/m <sup>2</sup> /d                                       | 0.25                               |
| C7: For landfills that do not meet the conditions in C2 or C3 above and that have final cover or intermediate or interim cover <sup>a</sup> for greater than 50% of the landfill area containing waste and for which the CH <sub>4</sub> flux rate <sup>b</sup> is greater than 70 g/m <sup>2</sup> /d                                | 0.1                                |

<sup>a</sup> Where a landfill is located in a state that does not have an intermediate or interim cover requirement, the landfill must have soil cover of 12 inches (300 mm) or greater in order to use an oxidation fraction of 0.25 or 0.35.

<sup>b</sup> Methane flux rate (in grams per square meter per day; g/m<sup>2</sup>/d) is the mass flow rate of methane per unit area at the bottom of the surface soil prior to any oxidation and is calculated as follows:

For Equation HH-5 of this subpart, or for Equation TT-6 of subpart TT of this part,

$$MF = K \times G_{CH_4} / SA_{Area}$$

For Equation HH-6 of this subpart,

$$MF = K \times \left( G_{CH_4} - \sum_{n=1}^N R_n \right) / SA_{Area}$$

For Equations HH-7 of this subpart,

$$MF = K \times \left( \frac{1}{CE} \sum_{n=1}^N \left[ \frac{R_n}{f_{rec,n}} \right] \right) / SA_{Area}$$

For Equation HH-8 of this subpart,

$$MF = K \times \left( \frac{1}{CE} \left\{ \sum_{n=1}^N \left[ \frac{R_n}{f_{rec,n}} \right] \right\} - \sum_{n=1}^N R_n \right) / SA_{Area}$$

Where:

MF = Methane flux rate from the landfill in the reporting year (g/m<sup>2</sup>/d).

K = unit conversion factor = 10<sup>6</sup>/365 (g/metric ton per days/year) or 10<sup>6</sup>/366 for a leap year.

SA<sub>Area</sub> = The surface area of the landfill containing waste at the beginning of the reporting year (m<sup>2</sup>).

G<sub>CH<sub>4</sub></sub> = Modeled methane generation rate in reporting year from Equation HH-1 of this subpart or Equation TT-1 of subpart TT of this part, as applicable, except for application with Equation HH-6 of this subpart (metric tons CH<sub>4</sub>). For application with Equation HH-6 of this subpart, the greater of the modeled methane generation rate in reporting year from Equation HH-1 of this subpart or Equation TT-1 of this part, as applicable, and the quantity of recovered CH<sub>4</sub> from Equation HH-4 of this subpart (metric tons CH<sub>4</sub>).

## Appendix A, continued

CE = Collection efficiency estimated at landfill, taking into account system coverage, operation, and cover system materials from Table HH-3 of this subpart. If area by soil cover type information is not available, use default value of 0.75 (CE4 in table HH-3 of this subpart) for all areas under active influence of the collection system.

N = Number of landfill gas measurement locations (associated with a destruction device or gas sent off-site). If a single monitoring location is used to monitor volumetric flow and CH<sub>4</sub> concentration of the recovered gas sent to one or multiple destruction devices, then N = 1.

R<sup>n</sup> = Quantity of recovered CH<sub>4</sub> from Equation HH-4 of this subpart for the nth measurement location (metric tons).

f<sup>Rec,n</sup> = Fraction of hours the recovery system associated with the nth measurement location was operating (annual operating hours/8760 hours per year or annual operating hours/8784 hours per year for a leap year).

## **APPENDIX B**

### **Hartland Landfill Well Field Data**

- B1 Hartland Landfill Gas Well Operation
- B2 Hartland Landfill Gas Well Field Data
- B3 Hartland Landfill Gas Well Field Data Summary



Appendix B1 Hartland Landfill Gas Well Operation

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          |                                       |  |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|----------------------------------------------------------|---------------------------------------|--|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |                                                          |                                       |  |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021 | 2022                                                     | 2023                                  |  |
| BLGW0001                                                                       |               |             | 2002              | 2003            | 2005              |                   |      |      |      |      | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2005                                         |                                       |  |
| BLGW0002                                                                       |               |             | 2002              | 2003            | 2005              |                   |      |      |      |      | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2005                                         |                                       |  |
| BLGW0003                                                                       |               |             | 2002              | 2003            | 2007              |                   |      |      |      |      | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2007                                         |                                       |  |
| BLGW0004                                                                       |               |             | 2002              | 2003            | 2007              |                   |      |      |      |      | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2007                                         |                                       |  |
| BLGW0005                                                                       |               |             | 2002              | 2003            | 2007              |                   |      |      |      |      | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2007                                         |                                       |  |
| BLGW0006                                                                       |               |             | 2002              | 2003            | 2007              |                   |      |      |      |      | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2007                                         |                                       |  |
| BLGW0007                                                                       |               |             | 2002              | 2003            | 2007              |                   |      |      |      |      | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2007                                         |                                       |  |
| BLGW0008                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0009                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0010                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0011                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0012                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0013                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0014                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0015                                                                       |               |             | 2002              | 2003            | 2004              |                   |      |      |      |      | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2004                                         |                                       |  |
| BLGW0016                                                                       |               |             | 2002              | 2003            | 2008              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Deactivated 2008                      |  |
| BLGW0017                                                                       |               |             | 2002              | 2003            | 2008              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Deactivated 2008                      |  |
| BLGW0018                                                                       |               |             | 2002              | 2003            | 2008              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Deactivated 2008                      |  |
| BLGW0019                                                                       |               |             | 2002              | 2003            | 2006              |                   |      |      |      |      | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Deactivated 2006                      |  |
| BLGW0020                                                                       |               |             | 2002              | 2003            | 2006              |                   |      |      |      |      | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Deactivated 2006                      |  |
| BLGW0021                                                                       |               |             | 2002              | 2003            | 2006              |                   |      |      |      |      | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          | Converted to vertical well OLGW0048s  |  |
| LHGW0001                                                                       | LHGW0001      |             | 1999              | 2003            | 2011              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      |      |                                                          | Abandoned May 2011                    |  |
| LHGW002A                                                                       | LHGW002A      | 147         | 1999              | 2007            |                   |                   |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA       | IA   |      | Disconnected for Cell 1 closure - reconnected in Dec2012 |                                       |  |
| LHGW002B                                                                       | LHGW002B      |             | 1999              | 2007            | 2011              |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      |      |                                                          | Abandoned in May 2011                 |  |
| LHGW0003                                                                       | LHGW0003      | 147         | 1999              | 2003            |                   |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA       | IA   |      | Disconnected for Cell 1 closure reconnected Jan2013      |                                       |  |
| LHGW0004                                                                       | LHGW0004      | 147         | 1999              | 2003            |                   |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                                          |                                       |  |
| LHGW0005                                                                       |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                                          |                                       |  |
| LHGW0006                                                                       | LHGW0006      | 143         | 2008              | 2009            | 2014              |                   |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |          |      |      |                                                          | Abandoned May 2014                    |  |
| LHGW0007                                                                       | LHGW0007      | 143         | 2008              | 2009            |                   |                   |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |                                                          | no readings 2017-2018 - no production |  |
| LHGW0008                                                                       | LHGW0008      | 143         | 2008              | 2009            |                   |                   |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |                                                          | no readings 2017-2018 - no production |  |
| LHGW0009                                                                       | LHGW0009      | 143         | 2012              | 2012            | 2014              |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | IA   |      |      |      |      |      |          |      |      |                                                          | Start Feb 2012 - abandoned May 2014   |  |

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |                                                                                               |  |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|-----------------------------------------------------------------------------------------------|--|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |      |                                                                                               |  |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021 | 2022 | 2023                                                                                          |  |
| LHW0010                                                                        | LHW0010       | 143         | 2011              | 2012            | 2014              |                   |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | IA   |      |      |      |      |          |      |      |      | Start Feb 2012, was 11 - abandoned May 2014                                                   |  |
| LHW0017                                                                        | LHW0017       | 163         | 2014              | 2012            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |      | start January 2012 / no readings 2017-2018 - no production                                    |  |
| LHW0019                                                                        | LHW0019       | ---         | 2014              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x        |      |      |      | Started May 2014                                                                              |  |
| LHW0020                                                                        | LHW0020       | 159         | 2014              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x        |      |      |      | Started May 2014                                                                              |  |
| LHW0021                                                                        | LHW0021       | 159         | 2014              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | IA   |          |      |      |      | Started May 2014                                                                              |  |
| LHW0022                                                                        | LHW0022       | 159         | 2014              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x        |      |      |      | Started May 2014                                                                              |  |
| LHW0023                                                                        | LHW0023       | 159         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        |      |      |      | start september 2011, was 21                                                                  |  |
|                                                                                |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |                                                                                               |  |
|                                                                                |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |                                                                                               |  |
| OHW0001                                                                        | HLGW0001      | 139         | 1999              | 2001            |                   |                   |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW0002                                                                        | HLGW0002      |             | 1999              | 2001            | 2011              |                   |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      |      |      | Abandoned may 2011                                                                            |  |
| OHW0003                                                                        | HLGW0003      | 139         | 1999              | 2003            |                   |                   |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW0004                                                                        | HLGW0004      | 147         | 1999              | 2003            |                   |                   |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |      | Disconnected for Cell 1 closure - reconnected Jan2013 / no readings 2017-2018 - no production |  |
| OHW0005                                                                        | HLGW0005      | 147         | 1999              | 2003            |                   |                   |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW006A                                                                        | HLGW006A      | 159         | 1999              | 2005            |                   |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      |                                                                                               |  |
| OHW006B                                                                        | HLGW006B      | 159         | 1999              | 2005            |                   |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW0007                                                                        | HLGW0007      |             | 1999              | 2005            | 2011              |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      |      |      | Abandoned in May 2011                                                                         |  |
| OHW008A                                                                        | HLGW008A      | 143         | 1999              | 2006            |                   |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW008B                                                                        | HLGW008B      | 143         | 1999              | 2006            |                   |                   |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Disconnected for Cell 1 closure - reconnected Jan2013                                         |  |
| OHW0009                                                                        | HLGW0009      | 139         | 2007              | 2008            | 2014              |                   |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |          |      |      |      | Disconnected for Cell 1 closure - reconnected Jan2013 - abandoned May 2014                    |  |
| OHW0010                                                                        | HLGW0010      | 139         | 2007              | 2008            |                   |                   |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |      | Disconnected for Cell 1 closure - reconnected Jan2013 / no readings 2017-2018 - no production |  |
| OHW0011                                                                        | HLGW0011      |             | 2007              | 2008            |                   |                   |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |      | Disconnected for Cell 1 closure - reconnected Jan2013 / no readings 2017-2018 - no production |  |
| OHW0012                                                                        | HLGW0012      | 147         |                   | 2010            |                   |                   |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      |                                                                                               |  |
| OHW0013                                                                        | HLGW0013      | 147         |                   | 2010            |                   |                   |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      |                                                                                               |  |
| OHW0014                                                                        | HLGW0014      | 155         |                   | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      |                                                                                               |  |
| OHW0015                                                                        | HLGW0015      | 155         |                   | 2011            | 2014              |                   |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | IA   |      |      |      |          |      |      |      | abandoned May 2014                                                                            |  |
|                                                                                | HLGW016A      | 159         | 2012              | 2012            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |          |      |      |      | Started Dec 2012 / no readings 2017-2018 - no production                                      |  |
| OHW0016 /HLGW0016                                                              | HLGW016B      | 163         | 2012              | 2012            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x        | x    |      |      | Started Jan 2012                                                                              |  |

Appendix B1, continued

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |                                                                                 |                                                                                 |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |      |      |                                                                                 |                                                                                 |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |          | 2017 | 2018 | 2019 | 2020 | 2021                                                                            | 2022                                                                            |
|                                                                                | HLGW017A      | 163         | 2012              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | x    | IA   | IA   | IA   |                                                                                 | Started Dec 2012                                                                |
| OHW0017/<br>HLGW0017                                                           | HLGW017B      | 163         | 2012              | 2012            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Started Jan 2012                                                                |
|                                                                                | HLGW0018      | 165         | 2012              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Started Jan2013                                                                 |
|                                                                                | HLGW019B      | 165         | 2013              | 2013            | 2022              |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | IA   |      |      |      |                                                                                 | Started Jan 2013 / no readings 2017-2018 - no production - Decommissioned       |
|                                                                                | HLGW019C      | 165         | 2012              | 2012            | 2020              |                   |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x        | x    | IA   | IA   | IA   |                                                                                 | Started Dec 2012 - decomissioned July 2020                                      |
|                                                                                | HLGW020B      | 165         | 2013              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | IA   |      |      |      |                                                                                 | Started Jan 2013 / no readings 2017-2018 - no production                        |
|                                                                                | HLGW021B      | 165         | 2013              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Started Jan 2013                                                                |
|                                                                                | HLGW022B      | 165         | 2013              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Started Jan 2013                                                                |
| Previously<br>HLGW0023                                                         | HLGW023B      | 165         | 2013              | 2013            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Started Jan 2013                                                                |
|                                                                                | HLGW024B      | 171         | 2014              | 2016            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | x    | x    |                                                                                 | Activated 2016                                                                  |
|                                                                                | HLGW025B      | 171         | 2014              | 2016            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | x    | x    |                                                                                 | Activated 2016                                                                  |
|                                                                                | HLGW026B      | 171         | 2014              | 2015            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Started Jan 2015                                                                |                                                                                 |
|                                                                                | HLGW027A      | 171         | 2014              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | x    | x    |                                                                                 | activated 2017                                                                  |
|                                                                                | HLGW027B      | 171         | 2014              | 2015            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Started Jan 2015                                                                |                                                                                 |
|                                                                                | HLGW028B      | 171         | 2014              | 2015            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2015                                                              |                                                                                 |
|                                                                                | HLGW028A      | 171         | 2014              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | x    | x    |                                                                                 |                                                                                 |
|                                                                                | HLGW029B      | 171         | 2014              | 2015            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2015                                                              |                                                                                 |
|                                                                                | HLGW029A      | 171         | 2014              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | x    | x    |                                                                                 |                                                                                 |
|                                                                                | HLGW030A      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    | x    |                                                                                 | Activated Jan 2014 temp disconnected Jun2016 for cell 3/<br>reactivated Oct2017 |
|                                                                                | HLGW030B      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014                                                              |                                                                                 |
|                                                                                | HLGW031A      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014 temp disconnected Jun2016 for cell 3/<br>reactivated Oct2017 |                                                                                 |
|                                                                                | HLGW031B      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014                                                              |                                                                                 |
|                                                                                | HLGW032A      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014 temp disconnected Jun2016 for cell 3/<br>reactivated Oct2017 |                                                                                 |
|                                                                                | HLGW032B      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014                                                              |                                                                                 |
|                                                                                | HLGW033A      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014 temp disconnected Jun2016 for cell 3/<br>reactivated Oct2017 |                                                                                 |
|                                                                                | HLGW033B      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014                                                              |                                                                                 |
|                                                                                | HLGW034A      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    |      | Activated Jan 2014 temp disconnected Jun2016 for cell 3/<br>reactivated Oct2017 |                                                                                 |



| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |                                          |                     |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------------------------------------------|---------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |      |      |      |                                          |                     |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |          | 2017 | 2018 | 2019 | 2020 | 2021 | 2022                                     | 2023                |
|                                                                                | HLGW034B      | 171         | 2013              | 2014            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | x    | x    |      | Activated Jan 2014                       |                     |
|                                                                                | HLGW035A      | ---         | ---               | ---             | ---               | ---               | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---      | ---  | ---  | ---  | ---  | ---  |                                          | Wells not installed |
|                                                                                | HLGW035B      | ---         | ---               | ---             | ---               | ---               | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---  | ---      | ---  | ---  | ---  | ---  | ---  |                                          | Wells not installed |
|                                                                                | HLGW036B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    |      |      |      | Installed 2015 - Temp connection Jan2017 |                     |
|                                                                                | HLGW037B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW038B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    | Installed 2015 - Temp connection Jan2017 |                     |
|                                                                                | HLGW039A      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW039B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    | Installed 2015 - Temp connection Jan2017 |                     |
|                                                                                | HLGW040A      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW040B      | 175         | 2015              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW041A      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW041B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW042A      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW042B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    | Installed 2015 - Temp Activated Jan2017  |                     |
|                                                                                | HLGW043A      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW043B      | 175         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    | Installed 2015 - Temp Activated Jan2017  |                     |
|                                                                                | HLGW044A      | 179         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW044B      | 179         | 2015              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    | Installed 2015 - Temp Activated Jan2017  |                     |
|                                                                                | HLGW045A      | 179         | 2016              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | x    | IA   | IA   | IA   | Activated April 2019                     |                     |
|                                                                                | HLGW045B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW046A      | 179         | 2016              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | x    | IA   | IA   | IA   | Activated April 2019                     |                     |
|                                                                                | HLGW046B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW047A      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW047B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW048A      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW048B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW049A      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | IA   | IA   | IA   |                                          |                     |
|                                                                                | HLGW049B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW050A      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW050B      | 179         | 2016              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated Jan 2018                       |                     |
|                                                                                | HLGW051A      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW051B      | 179         | 2016              | 2017            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | x    | x    | x    |                                          |                     |
|                                                                                | HLGW0052      | 151         | 2017              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated July 2018                      |                     |
|                                                                                | HLGW0053      | 151(3)      | 2017              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated July 2018                      |                     |
|                                                                                | HLGW0054      | 151(3)      | 2017              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | x    | x    | x    | Activated July 2018                      |                     |

Appendix B1, continued

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---------------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |                           |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021 | 2022                      |
|                                                                                | HLGW0055      | 151(3)      | 2017              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        | x    | x    | Activated July 2018       |
|                                                                                | HLGW0056      | 151(3)      | 2017              | 2018            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | IA       | IA   | IA   | Activated August 2018     |
|                                                                                | HLGW0057      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0058      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0059      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0060      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0061      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0062      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0063      | 155(3)      | 2018              | 2019            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x        | x    | x    | Activated April 2019      |
|                                                                                | HLGW0064      | 155(3)      | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ---  | ---      | ---  | ---  | Active May/June 2020      |
|                                                                                | HLGW0065      | 159 (3)     | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | Active May/June 2020      |
|                                                                                | HLGW0066      | 159 (3)     | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | Active May/June 2020      |
|                                                                                | HLGW0067B     | 159 (3)     | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | Active May/June 2020      |
|                                                                                | HLGW0068B     | 159 (3)     | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | Active May/June 2020      |
|                                                                                | HLGW0069      | 159 (3)     | 2018              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        | x    | x    | Active June 2020          |
|                                                                                | HLGW0070A     | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    |                           |
|                                                                                | HLGW0070B     | 163         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0071A     | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    |                           |
|                                                                                | HLGW0071B     | 163         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0072A     | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    |                           |
|                                                                                | HLGW0072B     | 163         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0073A     | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    |                           |
|                                                                                | HLGW0073B     | 163         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0074A     | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    |                           |
|                                                                                | HLGW0074B     | 163         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0075      | 163         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    | x    | Activated July 2021       |
|                                                                                | HLGW0076      | 167         | 2019              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|                                                                                | HLGW0077      | 167         | 2019              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|                                                                                | HLGW0078      | 167         | 2019              | 2022            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |      | Activated in 2022         |
|                                                                                | HLGW0079A     | 167         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|                                                                                | HLGW0079B     | 167         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0080A     | 167         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|                                                                                | HLGW0080B     | 167         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |
|                                                                                | HLGW0081A     | 167         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                           |
|                                                                                | HLGW0081B     | 167         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Awaiting wellhead tie in. |

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                               |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-----------------------------------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |                                               |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |          | 2021 | 2022                                          |
|                                                                                | HLGW0082A     | 167         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                               |
|                                                                                | HLGW0082B     | 167         | 2019              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0083      | 167         | 2019              | 2021            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                               |
|                                                                                | RWHGW01A      | 155         | 2017              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        |      | Rock Wall gas collectors - activated Nov 2020 |
|                                                                                | RWHGW01B      | 155         | 2017              | 2020            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x        |      | Rock Wall gas collectors - activated Nov 2020 |
|                                                                                | HLGW0084      | 167         | 2019              | 2022            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | x        |      | Activated in 2022                             |
|                                                                                | HLGW0085      | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0086      | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0087      | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0088A     | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0088B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0089A     | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0089B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0090A     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0090B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0091A     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0091B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0092A     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0092B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0093A     | 171         | 2020              | 2023            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | x    |                                               |
|                                                                                | HLGW0093B     | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0094      | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0095      | 171         | 2020              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Awaiting wellhead tie in.                     |
|                                                                                | HLGW0096      | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0097      | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0098      | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0099      | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0100A     | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0100B     | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0101A     | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0101B     | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0102A     | 175         | 2021              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0102B     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0103A     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |
|                                                                                | HLGW0103B     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in.       |

Appendix B1, continued

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                         |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-----------------------------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |                                         |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |          | 2021 | 2022                                    |
|                                                                                | HLGW0104A     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0104B     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0105A     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0105B     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0106A     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0106B     | 175         | 2022              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0107A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0107B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0108A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0108B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0109A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0109B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0110A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0110B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0111A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0111B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0112A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0112B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0113A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0113B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0114A     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | HLGW0114B     | 179         | 2023              |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Flange only - Awaiting wellhead tie in. |
|                                                                                | <b>Total</b>  |             | 5                 | 23              |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                         |
|                                                                                |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                         |
|                                                                                |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                                         |
| OLGT001A                                                                       | TLGW001A      |             | 1996              |                 |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |          |      |                                         |
| OLGT001B                                                                       | TLGW001B      |             | 1996              |                 |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |          |      |                                         |
| OLGT002A                                                                       | TLGW002A      |             | 1996              |                 |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |          |      |                                         |
| OLGT002B                                                                       | TLGW002B      |             | 1996              |                 |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |          |      |                                         |
| OLGT002C                                                                       | TLGW002C      |             | 1996              |                 |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |          |      |                                         |
| OLGT0003                                                                       |               |             |                   | 2002            |                   | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2002                        |
| OLGT0004                                                                       |               |             |                   | 2002            |                   | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2002                        |
| OLGT0005                                                                       |               |             |                   | 2002            |                   | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2002                        |
| OLGT0006                                                                       |               |             |                   | 2002            |                   | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2002                        |
| OLGT0007                                                                       |               |             |                   | 2002            |                   | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2002                        |

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |                                       |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---------------------------------------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |                                       |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021 | 2022                                  |
| OLGT0008                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0009                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0010                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0011                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0012                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0013                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0014                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0015                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0016                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0017                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0018                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGT0019                                                                       |               |             |                   |                 | 2002              | x                 | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | Deactivated 2002                      |
| OLGW001D                                                                       | VLGW001D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      | no readings 2017-2018 - no production |
| OLGW001S                                                                       | VLGW001S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      | no readings 2017-2018 - no production |
| OLGW002D                                                                       | VLGW002D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      | no readings 2017-2018 - no production |
| OLGW002S                                                                       | VLGW002S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      | no readings 2017-2018 - no production |
| OLGW003D                                                                       | VLGW003D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW003S                                                                       | VLGW003S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW004D                                                                       | VLGW004D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |                                       |
| OLGW004S                                                                       | VLGW004S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    |          |      |      |                                       |
| OLGW005D                                                                       | VLGW005D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |          |      |      |                                       |
| OLGW005S                                                                       | VLGW005S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW006D                                                                       | VLGW006D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW006S                                                                       | VLGW006S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW007D                                                                       | VLGW007D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW007S                                                                       | VLGW007S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW008D                                                                       | VLGW008D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW008S                                                                       | VLGW008S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW009D                                                                       | VLGW009D      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW009S                                                                       | VLGW009S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW010S                                                                       | VLGW010S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW011S                                                                       | VLGW011S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW012S                                                                       | VLGW012S      | ---         | 1996              | 1996            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW013D                                                                       | VLGW013D      | ---         | 1997              | 1997            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |
| OLGW013S                                                                       | VLGW013S      | ---         | 1997              | 1997            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    | x    |                                       |

Appendix B1, continued

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |  |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|--|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |      |      |      |  |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021 | 2022 | 2023 |  |
| OLGW014D                                                                       | VLGW014D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | IA   |      |          |      |      |      |      |  |
| OLGW014S                                                                       | VLGW014S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | IA   |      |          |      |      |      |      |  |
| OLGW015D                                                                       | VLGW015D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW015S                                                                       | VLGW015S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW016D                                                                       | VLGW016D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW016S                                                                       | VLGW016S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW017D                                                                       | VLGW017D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW017S                                                                       | VLGW017S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW018D                                                                       | VLGW018D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW018S                                                                       | VLGW018S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW019D                                                                       | VLGW019D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW019S                                                                       | VLGW019S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW020D                                                                       | VLGW020D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW020S                                                                       | VLGW020S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW021D                                                                       | VLGW021D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW021S                                                                       | VLGW021S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW022D                                                                       | VLGW022D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW022S                                                                       | VLGW022S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW023D                                                                       | VLGW023D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW023S                                                                       | VLGW023S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW024D                                                                       | VLGW024D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW024S                                                                       | VLGW024S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | IA   |      |          |      |      |      |      |  |
| OLGW025D                                                                       | VLGW025D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | IA   |      |          |      |      |      |      |  |
| OLGW025S                                                                       | VLGW025S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    |          | IA   | IA   | IA   |      |  |
| OLGW026D                                                                       | VLGW026D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW026S                                                                       | VLGW026S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW027D                                                                       | VLGW027D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW027S                                                                       | VLGW027S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW028S                                                                       | VLGW028S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW029D                                                                       | VLGW029D      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW029S                                                                       | VLGW029S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW030S                                                                       | VLGW030S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW031S                                                                       | VLGW031S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW032S                                                                       | VLGW032S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |
| OLGW033S                                                                       | VLGW033S      | ---         | 1997              | 1997            |                   | X                 | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X    | X        | X    | X    | X    |      |  |

| Operating Year(s) for Gas Wells Hartland Landfill<br>Capital Regional District |               |             |                   |                 |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |                       |      |
|--------------------------------------------------------------------------------|---------------|-------------|-------------------|-----------------|-------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|-----------------------|------|
| Well Information                                                               |               |             |                   |                 |                   | Gas Well Readings |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Comments |      |                       |      |
| Old Well Name                                                                  | New Well Name | Lift (mASL) | Installation Date | Activation Date | Deactivation Date | 1998              | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |          | 2020 | 2021                  | 2022 |
| OLGW034S                                                                       | VLGW034S      | ---         | 1997              | 1997            |                   | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW035S                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW035D                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW036S                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW036D                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW037S                                                                       |               | ---         | 1997              | 1998            | 2005              | x                 | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2005      |      |
| OLGW037D                                                                       |               | ---         | 1997              | 1998            | 2005              | x                 | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2005      |      |
| OLGW038S                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW038D                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW039S                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW039D                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW040S                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW040D                                                                       |               | ---         | 1997              | 1998            | 2004              | x                 | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2004      |      |
| OLGW041D                                                                       |               | ---         | 1997              | 1998            | 2008              | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2008      |      |
| OLGW041S                                                                       |               | ---         | 1997              | 1998            | 2008              | x                 | x    | x    | x    | x    | x    | x    | x    | x    | x    |      |      |      |      |      |      |      |      |      |      |      |      |          |      | Deactivated 2008      |      |
| OLGW042S                                                                       | VLGW042S      | ---         | 2002              | 2003            | 2021              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    |          |      | Decommissioned 2021   |      |
| OLGW043S                                                                       | VLGW043S      | ---         | 2002              | 2003            | 2021              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    | x    |          |      | Decommissioned 2021   |      |
| OLGW044S                                                                       | VLGW044S      | ---         | 2002              | 2003            | 2011              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      | Abandoned in May 2011 |      |
| OLGW045S                                                                       | VLGW045S      | ---         | 2002              | 2003            | 2011              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      | Abandoned in May 2011 |      |
| OLGW046S                                                                       | VLGW046S      | ---         | 2002              | 2003            | 2011              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |          |      | Abandoned in May 2011 |      |
| OLGW047S                                                                       | VLGW047S      | ---         | 2002              | 2003            | 2021              |                   |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    |      |      | x    | x    | x    | x    | IA   |      |          |      | Decommissioned 2021   |      |
| OLGW048S                                                                       | VLGW048S      | ---         | 2002              | 2002            | 2011              |                   |      |      |      |      |      |      |      |      | x    | x    | x    | x    | IA   |      |      |      |      |      |      |      |      |          |      | Abandoned in May 2011 |      |
| OLGW049                                                                        | VLGW0049      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW050                                                                        | VLGW0050      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW051                                                                        | VLGW0051      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW052                                                                        | VLGW0052      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW053                                                                        | VLGW0053      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW054                                                                        | VLGW0054      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW055                                                                        | VLGW0055      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW056                                                                        | VLGW0056      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW057                                                                        | VLGW0057      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | IA   |      |      |          |      | Decommissioned 2021   |      |
| OLGW058                                                                        | VLGW0058      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW059                                                                        | VLGW0059      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |
| OLGW060                                                                        | VLGW0060      | ---         | 2011              | 2011            |                   |                   |      |      |      |      |      |      |      |      |      |      |      |      | x    | x    | x    | x    | x    | x    | x    | x    | x    | x        | x    |                       |      |

Appendix B1, continued

|                                 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Number of Active Wells</b>   | 95   | 95   | 95   | 97   | 97   | 113  | 113  | 99   | 97   | 99   | 94   | 92   | 92   | 109  | 107  | 114  | 129  | 128  | 130  | 141  | 140  | 145  | 143  | 147  | 144  |
| <b>Number of Inactive Wells</b> | 0    | 0    | 0    | 0    | 0    | 17   | 0    | 18   | 4    | 3    | 5    | 3    | 0    | 0    | 8    | 0    | 0    | 5    | 0    | 12   | 13   | 2    | 9    | 9    | 25*  |

**Notes:**  
 The total number of the inactive wells is an approximate number as the design of the cells 4, 5, and 6 is currently being completed.



**Appendix B2 2022 Hartland Landfill Gas Well Field Data**

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0001</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-20 | 51.30             | 35.60             | 0.00             | 13.10       | 0.00            | 0.00           |
| May             | 2022-05-26 | 24.70             | 25.40             | 0.10             | 49.80       | 0.00            | 0.00           |
| June            | 2022-06-29 | 17.30             | 22.30             | 1.70             | 58.70       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-30 | 23.60             | 25.30             | 0.00             | 51.10       | 0.00            | 0.00           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>29.2</b>       | <b>27.2</b>       | <b>0.5</b>       | <b>43.2</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW0003</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 48.80             | 31.80             | 2.00             | 17.40       | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-20 | 54.70             | 34.50             | 1.00             | 9.80        | 0.00            | 0.00           |
| May             | 2022-05-26 | 52.70             | 34.70             | 0.30             | 12.30       | 0.00            | 0.00           |
| June            | 2022-06-29 | 31.60             | 26.50             | 2.80             | 39.10       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-30 | 30.80             | 27.50             | 2.30             | 39.40       | 0.00            | 0.00           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>43.7</b>       | <b>31.0</b>       | <b>1.7</b>       | <b>23.6</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW0004</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0005</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |
| <b>HLGW006A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-30 | 37.40             | 31.30             | 0.00             | 31.30       | 0.00            | 0.00           |
| June            | 2022-06-28 | 39.00             | 31.00             | 0.00             | 30.00       | 0.00            | 0.00           |
| July            | 2022-07-19 | 40.50             | 31.50             | 0.20             | 27.80       | 0.00            | 0.00           |
| August          | 2022-08-29 | 42.00             | 33.50             | 0.00             | 24.50       | 0.00            | 0.00           |
| September       | 2022-09-23 | 38.00             | 32.20             | 0.00             | 29.80       | 3.50            | 3.60           |
| October         | 2022-10-25 | 37.80             | 33.10             | 0.00             | 29.10       | 0.00            | 0.00           |
| November        | 2022-11-29 | 31.80             | 30.50             | 0.10             | 37.60       | 0.00            | 0.00           |
| December        | 2022-12-15 | 30.80             | 30.30             | 0.00             | 38.90       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>37.2</b>       | <b>31.7</b>       | <b>0.0</b>       | <b>31.1</b> | <b>0.4</b>      | <b>0.5</b>     |
| <b>HLGW006B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |

Appendix B2, continued

| Month           | Date                    | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|-------------------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW008A</b> |                         |                   |                   |                  |             |                 |                |
| January         | 2022-01-18              | 44.00             | 33.10             | 0.00             | 22.90       | 4.30            | 3.00           |
| February        | 2022-02-15              | 42.20             | 32.40             | 0.00             | 25.40       | 0.00            | 0.00           |
| March           | 2022-03-23              | 40.60             | 32.30             | 0.00             | 27.10       | 0.00            | 0.00           |
| April           | 2022-04-12              | 42.30             | 32.60             | 0.10             | 25.00       | 0.00            | 0.00           |
| May             | 2022-05-16              | 42.70             | 32.30             | 0.30             | 24.70       | 0.00            | 0.00           |
| June            | 2022-06-28              | 45.20             | 32.90             | 0.10             | 21.80       | 0.00            | 0.00           |
| July            | 2022-07-21              | 45.20             | 32.50             | 1.20             | 21.10       | 0.00            | 0.00           |
| August          | 2022-08-16              | 45.50             | 33.90             | 0.00             | 20.60       | 0.00            | 0.00           |
| September       | 2022-09-15              | 44.90             | 33.50             | 1.00             | 20.60       | 0.00            | 0.50           |
| October         | 2022-10-13              | 42.80             | 33.80             | 0.00             | 23.40       | 0.00            | 2.80           |
| November        | 2022-11-17              | 38.20             | 31.80             | 0.00             | 30.00       | 0.00            | 0.00           |
| December        | 2022-12-14              | 32.60             | 30.60             | 0.00             | 36.80       | 0.00            | 0.00           |
| <b>Average</b>  |                         | <b>42.2</b>       | <b>32.6</b>       | <b>0.2</b>       | <b>25.0</b> | <b>0.4</b>      | <b>0.5</b>     |
| <b>HLGW008B</b> |                         |                   |                   |                  |             |                 |                |
| January         | 2022-01-19              | 42.00             | 33.20             | <<<<             | N/A         | 0.00            | 0.00           |
| February        | 2022-02-28              | 37.50             | 29.30             | 0.40             | 32.80       | 0.00            | 0.00           |
| March           | 2022-03-22              | 39.60             | 32.50             | 0.00             | 27.90       | 0.00            | 0.00           |
| April           | 2022-04-21              | 41.30             | 32.50             | 0.10             | 26.10       | 0.00            | 0.00           |
| May             | 2022-05-25              | 40.40             | 32.30             | 0.00             | 27.30       | 0.00            | 0.00           |
| June            | 2022-06-28              | 43.60             | 32.60             | 0.20             | 23.60       | 0.00            | 0.00           |
| July            | 2022-07-19              | 41.10             | 32.40             | 0.10             | 26.40       | 0.00            | 0.00           |
| August          | 2022-08-24              | 46.00             | 35.30             | 0.00             | 18.70       | 0.00            | 1.90           |
| September       | 2022-09-15              | 43.60             | 34.20             | 0.00             | 22.20       | 2.50            | 3.20           |
| October         | 2022-10-07              | 40.40             | 32.50             | 0.00             | 27.10       | 2.80            | 0.00           |
| November        | 2022-11-28              | 40.10             | 32.90             | 0.00             | 27.00       | 0.00            | 0.00           |
| December        |                         |                   |                   |                  |             |                 |                |
| <b>Average</b>  |                         | <b>41.4</b>       | <b>32.7</b>       | <b>0.1</b>       | <b>25.9</b> | <b>0.5</b>      | <b>0.5</b>     |
| <b>HLGW0009</b> |                         |                   |                   |                  |             |                 |                |
| January         | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| February        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| March           | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| April           | Decommissioned May 2014 |                   |                   |                  |             |                 |                |
| May             | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| June            | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| July            | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| August          | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| September       | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| October         | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| November        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| December        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| <b>Average</b>  | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0010</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         | 2022-10-12 | 31.40             | 31.20             | 1.20             | 36.20       | 0.00            | 0.00           |
| November        | 2022-11-30 | 35.90             | 33.40             | 1.70             | 29.00       | 6.40            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>33.7</b>       | <b>32.3</b>       | <b>1.5</b>       | <b>32.6</b> | <b>3.2</b>      | <b>0.0</b>     |
| <b>HLGW0011</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 | <b>0.0</b>     |
| <b>HLGW0012</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-18 | 27.70             | 22.20             | 9.00             | 41.10       | 0.00            | 0.40           |
| June            | 2022-06-29 | 49.10             | 23.80             | 3.30             | 23.80       | 0.00            | 0.00           |
| July            | 2022-07-22 | 49.30             | 35.60             | 0.10             | 15.00       | 0.00            | 0.00           |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>42.0</b>       | <b>27.2</b>       | <b>4.1</b>       | <b>26.6</b> | <b>0.0</b>      | <b>0.1</b>     |

Appendix B2, continued

| Month           | Date                    | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|-------------------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0013</b> |                         |                   |                   |                  |             |                 |                |
| January         |                         |                   |                   |                  |             |                 |                |
| February        |                         |                   |                   |                  |             |                 |                |
| March           |                         |                   |                   |                  |             |                 |                |
| April           |                         |                   |                   |                  |             |                 |                |
| May             | 2022-05-30              | 39.50             | 33.90             | 0.00             | 26.60       | 0.00            | 0.00           |
| June            | 2022-06-29              | 32.40             | 31.20             | 0.40             | 36.00       | 0.00            | 0.00           |
| July            | 2022-07-22              | 0.40              | 0.40              | 20.00            | 79.20       | 0.00            | 0.00           |
| August          |                         |                   |                   |                  |             |                 |                |
| September       |                         |                   |                   |                  |             |                 |                |
| October         |                         |                   |                   |                  |             |                 |                |
| November        | 2022-11-30              | 56.30             | 43.60             | 0.20             | N/A         | 0.00            | 0.00           |
| December        |                         |                   |                   |                  |             |                 |                |
| <b>Average</b>  |                         | <b>32.2</b>       | <b>27.3</b>       | <b>5.2</b>       | <b>47.3</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW0014</b> |                         |                   |                   |                  |             |                 |                |
| January         |                         |                   |                   |                  |             |                 |                |
| February        |                         |                   |                   |                  |             |                 |                |
| March           |                         |                   |                   |                  |             |                 |                |
| April           |                         |                   |                   |                  |             |                 |                |
| May             | 2022-05-30              | 8.20              | 14.10             | 9.70             | 68.00       |                 |                |
| June            |                         |                   |                   |                  |             |                 |                |
| July            |                         |                   |                   |                  |             |                 |                |
| August          |                         |                   |                   |                  |             |                 |                |
| September       |                         |                   |                   |                  |             |                 |                |
| October         |                         |                   |                   |                  |             |                 |                |
| November        |                         |                   |                   |                  |             |                 |                |
| December        |                         |                   |                   |                  |             |                 |                |
| <b>Average</b>  |                         | <b>8.2</b>        | <b>14.1</b>       | <b>9.7</b>       | <b>68.0</b> |                 |                |
| <b>HLGW0015</b> |                         |                   |                   |                  |             |                 | ---            |
| January         | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| February        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| March           | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| April           | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| May             | Decommissioned May 2014 |                   |                   |                  |             |                 |                |
| June            | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| July            | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| August          | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| September       | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| October         | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| November        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| December        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| <b>Average</b>  |                         | <b>0.0</b>        | <b>0.0</b>        | <b>0.0</b>       | <b>0.0</b>  | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW016A</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>0.0</b>        | <b>0.0</b>        | <b>0.0</b>       | <b>0.0</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW016B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 58.00             | 38.90             | 0.00             | 3.10       | 161.50          | 160.60         |
| February        | 2022-02-14 | 58.50             | 39.20             | 0.00             | 2.30       | 160.90          | 166.90         |
| March           | 2022-03-16 | 58.00             | 39.00             | 0.00             | 3.00       | 155.40          | 155.90         |
| April           | 2022-04-12 | 55.20             | 38.90             | 0.00             | 5.90       | 204.60          | 201.30         |
| May             | 2022-05-13 | 58.30             | 39.30             | 0.00             | 2.40       | 137.10          | 147.40         |
| June            | 2022-06-21 | 54.30             | 38.00             | 0.10             | 7.60       | 147.50          | 147.80         |
| July            | 2022-07-13 | 54.20             | 38.30             | 0.10             | 7.40       | 138.40          | 138.40         |
| August          | 2022-08-09 | 54.70             | 38.60             | 0.00             | 6.70       | 131.80          | 131.80         |
| September       | 2022-09-14 | 55.10             | 39.00             | 0.00             | 5.90       | 131.20          | 131.20         |
| October         | 2022-10-07 | 55.20             | 38.20             | 0.00             | 6.60       | 107.80          | 105.10         |
| November        | 2022-11-09 | 53.10             | 39.10             | 0.00             | 7.80       | 136.80          | 134.70         |
| December        | 2022-12-12 | 52.40             | 38.30             | 0.30             | 9.00       | 149.90          | 140.50         |
| <b>Average</b>  |            | <b>55.6</b>       | <b>38.7</b>       | <b>0.0</b>       | <b>5.6</b> | <b>146.9</b>    | <b>146.8</b>   |
| <b>HLGW017A</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            |                   |                   |                  |            |                 |                |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW017B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-13 | 10.70             | 19.90             | 2.20             | 67.20       | 0.00            | 0.00           |
| June            | 2022-06-30 | 6.00              | 18.70             | 1.40             | 73.90       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>8.4</b>        | <b>19.3</b>       | <b>1.8</b>       | <b>70.6</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW0018</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 59.10             | 40.10             | 0.00             | 0.80        | 24.80           | 24.90          |
| February        | 2022-02-14 | 57.80             | 39.80             | 0.10             | 2.30        | 19.60           | 22.70          |
| March           | 2022-03-15 | 56.20             | 40.00             | 0.00             | 3.80        | 26.20           | 26.20          |
| April           | 2022-04-12 | 55.60             | 40.10             | 0.00             | 4.30        | 26.50           | 25.00          |
| May             | 2022-05-13 | 58.40             | 40.00             | 0.00             | 1.60        | 22.20           | 23.40          |
| June            | 2022-06-21 | 55.10             | 38.30             | 0.10             | 6.50        | 23.20           | 23.10          |
| July            | 2022-07-13 | 53.30             | 38.50             | 0.10             | 8.10        | 24.00           | 22.60          |
| August          | 2022-08-09 | 54.40             | 38.90             | 0.00             | 6.70        | 22.40           | 22.30          |
| September       | 2022-09-14 | 54.70             | 39.30             | 0.00             | 6.00        | 23.30           | 23.40          |
| October         | 2022-10-07 | 57.60             | 39.20             | 0.00             | 3.20        | 15.80           | 15.80          |
| November        | 2022-11-09 | 50.20             | 38.90             | 0.00             | 10.90       | 22.80           | 18.90          |
| December        | 2022-12-12 | 51.70             | 39.10             | 0.00             | 9.20        | 20.50           | 18.20          |
| <b>Average</b>  |            | <b>55.3</b>       | <b>39.4</b>       | <b>0.0</b>       | <b>5.3</b>  | <b>22.6</b>     | <b>22.2</b>    |
| <b>HLGW019B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW019C</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            |                   |                   |                  |            |                 |                |
| <b>HLGW020B</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            |                   |                   |                  |            |                 |                |
| <b>HLGW021B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 57.30             | 38.40             | 0.50             | 3.80       | 11.40           | 8.80           |
| February        |            |                   |                   |                  |            |                 |                |
| March           | 2022-03-16 | 54.50             | 38.80             | 0.30             | 6.40       | 10.30           | 8.60           |
| April           | 2022-04-19 | 59.70             | 40.00             | 0.40             |            | 7.10            | 7.20           |
| May             | 2022-05-17 | 59.10             | 40.80             | 0.20             |            | 2.20            | 5.00           |
| June            | 2022-06-27 | 54.10             | 38.30             | 0.50             | 7.10       | 7.50            | 7.60           |
| July            | 2022-07-15 | 57.10             | 39.30             | 0.70             | 2.90       | 6.00            | 6.10           |
| August          | 2022-08-23 | 58.90             | 40.90             | 0.20             | 0.00       | 5.60            | 10.40          |
| September       | 2022-09-16 | 49.80             | 37.80             | 0.50             | 11.90      | 7.50            | 4.60           |
| October         | 2022-10-07 | 50.20             | 38.10             | 0.40             | 11.30      | 10.20           | 7.70           |
| November        | 2022-11-09 | 58.80             | 41.20             | 0.10             |            | 4.00            | 7.00           |
| December        | 2022-12-15 | 58.30             | 39.60             | 0.30             | 1.80       | 4.90            | 8.00           |
| <b>Average</b>  |            | <b>56.2</b>       | <b>39.4</b>       | <b>0.4</b>       | <b>5.7</b> | <b>7.0</b>      | <b>7.4</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW022B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 25.10             | 36.00             | 1.90             | 37.00       | 0.00            | 0.00           |
| March           | 2022-03-17 | 26.60             | 36.50             | 1.80             | 35.10       | 0.00            | 0.00           |
| April           | 2022-04-19 | 28.50             | 33.10             | 1.40             | 37.00       | 0.00            | 0.00           |
| May             | 2022-05-18 | 58.60             | 41.30             | 0.00             | 0.10        | 0.00            | 1.50           |
| June            | 2022-06-27 | 35.30             | 35.10             | 0.10             | 29.50       | 0.00            | 0.00           |
| July            | 2022-07-15 | 59.20             | 40.10             | 0.50             | 0.20        | 0.00            | 1.00           |
| August          | 2022-08-24 | 56.60             | 40.80             | 0.00             | 2.60        | 0.00            | 2.10           |
| September       | 2022-09-16 | 30.30             | 29.20             | 1.80             | 38.70       | 1.80            | 0.00           |
| October         | 2022-10-13 | 57.80             | 41.60             | 0.60             | 0.00        |                 | 1.50           |
| November        | 2022-11-09 | 44.90             | 37.40             | 0.10             | 17.60       | 1.50            | 1.80           |
| December        | 2022-12-15 | 43.20             | 35.60             | 0.00             | 21.20       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>42.4</b>       | <b>37.0</b>       | <b>0.7</b>       | <b>19.9</b> | <b>0.3</b>      | <b>0.7</b>     |
| <b>HLGW023B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-16 | 44.70             | 21.80             | 0.30             | 33.20       | 0.00            | 0.00           |
| March           | 2022-03-17 | 42.20             | 23.50             | 0.20             | 34.10       | 0.00            | 0.00           |
| April           | 2022-04-19 | 35.50             | 21.50             | 2.70             | 40.30       | 0.00            | 0.00           |
| May             | 2022-05-30 | 3.60              | 17.20             | 6.30             | 72.90       | 0.00            | 0.00           |
| June            | 2022-06-27 | 16.40             | 26.40             | 0.90             | 56.30       | 0.00            | 0.00           |
| July            | 2022-07-15 | 11.80             | 16.30             | 9.10             | 62.80       | 0.00            | 0.00           |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>25.7</b>       | <b>21.1</b>       | <b>3.3</b>       | <b>49.9</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW024B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 58.10             | 41.90             | 0.00             | 0.00        | 54.70           | 54.60          |
| February        | 2022-02-14 | 56.60             | 41.80             | 0.00             | 1.60        | 111.40          | 111.20         |
| March           | 2022-03-15 | 56.40             | 41.30             | 0.10             | 2.20        | 121.20          | 117.90         |
| April           | 2022-04-12 | 57.30             | 41.60             | 0.00             | 1.10        | 120.10          | 120.10         |
| May             | 2022-05-13 | 57.00             | 42.90             | 0.10             | 0.00        | 120.90          | 123.50         |
| June            | 2022-06-21 | 57.00             | 41.90             | 0.30             | 0.80        | 121.60          | 119.10         |
| July            | 2022-07-13 | 56.80             | 42.00             | 0.30             | 0.90        | 119.40          | 120.90         |
| August          | 2022-08-09 | 57.60             | 42.20             | 0.10             | 0.10        | 114.40          | 115.30         |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>57.1</b>       | <b>42.0</b>       | <b>0.1</b>       | <b>0.8</b>  | <b>110.5</b>    | <b>110.3</b>   |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW025B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 55.70             | 39.80             | 0.00             | 4.50        | 24.30           | 25.10          |
| February        | 2022-02-14 | 56.20             | 39.00             | 0.00             | 4.80        | 9.80            | 10.50          |
| March           | 2022-03-15 | 56.20             | 39.00             | 0.10             | 4.70        | 27.00           | 27.10          |
| April           | 2022-04-12 | 57.10             | 39.70             | 0.10             | 3.10        | 8.40            | 6.90           |
| May             | 2022-05-13 | 54.90             | 40.90             | 0.20             | 4.00        | 24.90           | 24.40          |
| June            | 2022-06-21 | 52.90             | 38.80             | 0.30             | 8.00        | 19.90           | 19.60          |
| July            | 2022-07-13 | 53.10             | 38.20             | 0.50             | 8.20        | 10.70           | 11.00          |
| August          | 2022-08-09 | 53.50             | 38.30             | 0.50             | 7.70        | 15.10           | 14.40          |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>55.0</b>       | <b>39.2</b>       | <b>0.2</b>       | <b>5.6</b>  | <b>17.5</b>     | <b>17.4</b>    |
| <b>HLGW026B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-16 | 53.10             | 18.80             | 2.70             | 25.40       |                 | 0.00           |
| March           | 2022-03-17 | 22.90             | 15.60             | 12.90            | 48.60       | 0.00            | 0.00           |
| April           | 2022-04-19 | 11.80             | 6.90              | 17.90            | 63.40       | 0.00            | 0.00           |
| May             | 2022-05-17 | 11.00             | 6.30              | 17.60            | 65.10       | 0.00            | 0.00           |
| June            | 2022-06-27 | 17.70             | 12.10             | 12.30            | 57.90       | 0.00            | 0.00           |
| July            | 2022-07-15 | 20.70             | 12.70             | 13.40            | 53.20       | 0.00            | 0.00           |
| August          | 2022-08-23 | 56.60             | 36.80             | 0.80             | 5.80        | 0.00            | 2.80           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>27.7</b>       | <b>15.6</b>       | <b>11.1</b>      | <b>45.6</b> | <b>0.0</b>      | <b>0.4</b>     |
| <b>HLGW027A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 53.90             | 38.20             | 0.00             | 7.90        | 10.70           | 5.60           |
| February        | 2022-02-15 | 56.00             | 39.10             | 0.00             | 4.90        | 8.50            | 6.80           |
| March           | 2022-03-21 | 52.10             | 37.80             | 0.40             | 9.70        | 3.60            | 3.00           |
| April           | 2022-04-12 | 47.00             | 35.70             | 0.20             | 17.10       | 2.20            | 1.10           |
| May             | 2022-05-16 | 6.50              | 4.60              | 18.30            | 70.60       | 0.00            | 0.00           |
| June            | 2022-06-22 | 49.00             | 36.50             | 0.10             | 14.40       | 1.50            | 0.00           |
| July            | 2022-07-15 | 46.10             | 35.40             | 0.30             | 18.20       | 0.00            | 0.00           |
| August          | 2022-08-16 | 51.00             | 36.70             | 0.10             | 12.20       | 0.00            | 10.00          |
| September       | 2022-09-14 | 37.90             | 33.00             | 0.10             | 29.00       | 18.10           | 3.90           |
| October         | 2022-10-13 | 48.50             | 36.20             | 0.00             | 15.30       | 5.40            | 2.90           |
| November        | 2022-11-17 | 39.80             | 33.40             | 0.00             | 26.80       | 0.00            | 1.80           |
| December        | 2022-12-14 | 40.00             | 34.20             | 0.00             | 25.80       | 3.10            | 0.00           |
| <b>Average</b>  |            | <b>44.0</b>       | <b>33.4</b>       | <b>1.6</b>       | <b>21.0</b> | <b>4.4</b>      | <b>2.9</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW027B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 43.20             | 31.20             | 0.70             | 24.90       | 0.00            | 0.00           |
| February        | 2022-02-15 | 55.40             | 38.10             | 0.00             | 6.50        | 3.20            | 2.20           |
| March           | 2022-03-17 | 34.00             | 27.70             | 4.80             | 33.50       | 0.00            | 0.00           |
| April           | 2022-04-19 | 56.30             | 38.00             | 0.00             | 5.70        | 0.00            | 1.90           |
| May             | 2022-05-17 | 42.70             | 33.50             | 0.20             | 23.60       | 3.10            | 0.00           |
| June            | 2022-06-27 | 50.30             | 36.70             | 0.30             | 12.70       | 8.30            | 6.70           |
| July            | 2022-07-15 | 46.70             | 35.30             | 0.40             | 17.60       | 10.70           | 0.00           |
| August          | 2022-08-23 | 47.50             | 34.20             | 1.70             | 16.60       | 0.00            | 0.00           |
| September       | 2022-09-16 | 36.40             | 32.20             | 0.00             | 31.40       | 0.00            | 0.00           |
| October         | 2022-10-20 | 51.90             | 37.60             | 0.00             | 10.50       | 0.00            | 1.50           |
| November        | 2022-11-21 | 31.30             | 29.80             | 0.30             | 38.60       | 0.00            | 0.00           |
| December        | 2022-12-15 | 23.50             | 27.10             | 0.80             | 48.60       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>43.3</b>       | <b>33.5</b>       | <b>0.8</b>       | <b>22.5</b> | <b>2.1</b>      | <b>1.0</b>     |
| <b>HLGW028A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 58.10             | 39.20             | 0.00             | 2.70        | 35.00           | 27.50          |
| February        | 2022-02-15 | 55.50             | 38.40             | 0.00             | 6.10        | 28.40           | 25.50          |
| March           | 2022-03-21 | 56.80             | 39.10             | 0.00             | 4.10        | 28.50           | 27.90          |
| April           | 2022-04-12 | 57.80             | 39.30             | 0.00             | 2.90        | 24.80           | 26.30          |
| May             | 2022-05-16 | 58.50             | 39.00             | 0.10             | 2.40        | 27.60           | 31.20          |
| June            | 2022-06-22 | 55.70             | 38.80             | 0.10             | 5.40        | 33.20           | 33.20          |
| July            | 2022-07-15 | 53.50             | 37.90             | 0.20             | 8.40        | 38.10           | 38.20          |
| August          | 2022-08-16 | 54.70             | 38.40             | 0.00             | 6.90        | 32.30           | 32.30          |
| September       | 2022-09-14 | 55.00             | 39.00             | 0.00             | 6.00        | 32.10           | 31.70          |
| October         | 2022-10-13 | 55.50             | 38.90             | 0.00             | 5.60        | 34.10           | 33.90          |
| November        | 2022-11-17 | 53.10             | 38.00             | 0.00             | 8.90        | 30.60           | 30.80          |
| December        | 2022-12-14 | 52.00             | 38.60             | 0.00             | 9.40        | 34.60           | 34.60          |
| <b>Average</b>  |            | <b>55.5</b>       | <b>38.7</b>       | <b>0.0</b>       | <b>5.7</b>  | <b>31.6</b>     | <b>31.1</b>    |
| <b>HLGW028B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 59.90             | 40.10             | 0.00             | 0.00        | 3.80            | 3.60           |
| February        | 2022-02-15 | 56.70             | 39.70             | 0.00             | 3.60        | 9.80            | 9.40           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-12 | 59.20             | 39.80             | 0.10             | 0.90        | 2.70            | 3.40           |
| May             | 2022-05-17 | 57.30             | 39.60             | 0.00             | 3.10        | 4.00            | 3.70           |
| June            | 2022-06-27 | 57.80             | 39.00             | 0.10             | 3.10        | 5.30            | 5.40           |
| July            | 2022-07-15 | 53.90             | 37.90             | 0.10             | 8.10        | 6.70            | 6.80           |
| August          | 2022-08-30 | 58.30             | 40.40             | 0.00             | 1.30        | 7.90            | 9.50           |
| September       | 2022-09-16 | 53.20             | 38.50             | 0.00             | 8.30        | 7.50            | 6.30           |
| October         | 2022-10-27 | 58.70             | 41.30             | 0.00             | 0.00        | 4.60            | 7.50           |
| November        | 2022-11-21 | 54.90             | 38.90             | 0.00             | 6.20        | 6.00            | 5.80           |
| December        | 2022-12-15 | 54.60             | 38.70             | 0.00             | 6.70        | 12.20           | 11.40          |
| <b>Average</b>  |            | <b>56.8</b>       | <b>39.4</b>       | <b>0.0</b>       | <b>3.8</b>  | <b>6.4</b>      | <b>6.6</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW029A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 59.70             | 40.10             | 0.20             | 0.00        | 1.90            | 2.80           |
| February        | 2022-02-15 | 54.20             | 38.50             | 0.40             | 6.90        | 12.10           | 8.30           |
| March           | 2022-03-21 | 52.60             | 38.10             | 0.60             | 8.70        | 8.50            | 7.60           |
| April           | 2022-04-12 | 57.70             | 39.90             | 0.10             | 2.30        | 4.20            | 5.80           |
| May             | 2022-05-16 | 55.40             | 38.20             | 0.90             | 5.50        | 5.20            | 5.90           |
| June            | 2022-06-22 | 54.40             | 38.50             | 0.60             | 6.50        | 10.60           | 10.50          |
| July            | 2022-07-25 | 52.90             | 38.40             | 0.40             | 8.30        | 15.20           | 15.00          |
| August          | 2022-08-16 | 53.30             | 38.30             | 0.30             | 8.10        | 5.00            | 4.70           |
| September       | 2022-09-14 | 55.20             | 39.60             | 0.20             | 5.00        | 3.90            | 4.80           |
| October         | 2022-10-13 | 52.40             | 38.50             | 0.40             | 8.70        | 4.20            | 3.60           |
| November        | 2022-11-30 | 56.60             | 40.70             | 0.20             | 2.50        | 3.30            | 3.80           |
| December        | 2022-12-14 | 45.90             | 36.20             | 0.80             | 17.10       | 8.90            | 5.00           |
| <b>Average</b>  |            | <b>54.2</b>       | <b>38.8</b>       | <b>0.4</b>       | <b>6.6</b>  | <b>6.9</b>      | <b>6.5</b>     |
| <b>HLGW029B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 60.60             | 39.20             | 0.20             | 0.00        | 3.40            | 4.00           |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-17 | 51.50             | 37.60             | 0.00             | 10.90       | 9.60            | 5.10           |
| April           | 2022-04-12 | 45.40             | 36.10             | 0.40             | 18.10       | 2.70            | 2.50           |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-30 | 59.50             | 40.50             | 0.00             | 0.00        | 0.00            | 2.10           |
| September       | 2022-09-16 | 37.50             | 32.40             | 0.50             | 29.60       | 5.20            | 1.50           |
| October         | 2022-10-27 | 53.80             | 39.20             | 0.10             | 6.90        | 3.10            | 2.20           |
| November        | 2022-11-22 | 59.60             | 40.40             | 0.00             | 0.00        | 0.00            | 2.70           |
| December        | 2022-12-15 | 36.50             | 31.90             | 0.00             | 31.60       | 1.50            | 0.00           |
| <b>Average</b>  |            | <b>50.6</b>       | <b>37.2</b>       | <b>0.2</b>       | <b>12.1</b> | <b>3.2</b>      | <b>2.5</b>     |
| <b>HLGW030A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 37.30             | 32.80             | 0.00             | 29.90       | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-13 | 41.10             | 34.90             | 0.30             | 23.70       | 0.00            | 0.00           |
| May             | 2022-05-16 | 40.40             | 33.20             | 0.20             | 26.20       | 0.00            | 0.00           |
| June            | 2022-06-22 | 52.90             | 37.20             | 0.00             | 9.90        | 0.00            | 1.10           |
| July            | 2022-07-21 | 44.60             | 34.70             | 0.10             | 20.60       | 4.40            | 0.00           |
| August          | 2022-08-16 | 41.90             | 32.50             | 0.10             | 25.50       | 0.00            | 0.00           |
| September       | 2022-09-15 | 29.40             | 29.90             | 0.00             | 40.70       | 0.00            | 0.00           |
| October         | 2022-10-13 | 33.50             | 30.70             | 0.00             | 35.80       | 0.00            | 0.00           |
| November        | 2022-11-17 | 34.50             | 31.50             | 0.00             | 34.00       | 0.00            | 0.00           |
| December        | 2022-12-14 |                   | 30.00             | 0.70             |             | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>39.5</b>       | <b>32.7</b>       | <b>0.1</b>       | <b>27.4</b> | <b>0.4</b>      | <b>0.1</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW030B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 59.60             | 38.70             | 0.10             | 1.60        | 14.20           | 14.00          |
| February        | 2022-02-15 | 55.70             | 38.50             | 0.00             | 5.80        | 13.30           | 11.80          |
| March           | 2022-03-16 | 57.30             | 38.90             | 0.00             | 3.80        | 11.90           | 12.80          |
| April           | 2022-04-12 | 58.40             | 39.50             | 0.00             | 2.10        | 7.80            | 7.90           |
| May             | 2022-05-13 | 57.30             | 38.80             | 0.00             | 3.90        | 7.30            | 7.50           |
| June            | 2022-06-27 | 55.20             | 37.70             | 0.20             | 6.90        | 9.30            | 8.80           |
| July            | 2022-07-14 | 54.00             | 37.70             | 0.00             | 8.30        | 8.40            | 8.50           |
| August          | 2022-08-12 | 56.90             | 39.20             | 0.00             | 3.90        | 9.40            | 9.70           |
| September       | 2022-09-13 | 56.90             | 39.20             | 0.00             | 3.90        | 26.70           | 27.00          |
| October         | 2022-10-14 | 54.50             | 38.10             | 0.00             | 7.40        | 8.20            | 7.90           |
| November        | 2022-11-16 | 53.20             | 38.20             | 0.00             | 8.60        | 10.60           | 11.10          |
| December        | 2022-12-14 | 43.30             | 35.30             | 0.30             | 21.10       | 21.80           | 10.20          |
| <b>Average</b>  |            | <b>55.2</b>       | <b>38.3</b>       | <b>0.1</b>       | <b>6.4</b>  | <b>12.4</b>     | <b>11.4</b>    |
| <b>HLGW031A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 45.00             | 36.10             | 0.00             | 18.90       | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-13 | 29.60             | 30.10             | 1.20             | 39.10       | 0.00            | 0.00           |
| May             | 2022-05-16 | 60.30             | 39.70             | 0.00             | 0.00        | 0.00            | 1.60           |
| June            | 2022-06-22 | 41.40             | 33.30             | 0.00             | 25.30       | 0.00            | 0.00           |
| July            | 2022-07-21 | 18.60             | 23.00             | 1.70             | 56.70       | 0.00            | 0.00           |
| August          | 2022-08-16 | 21.40             | 24.90             | 1.60             | 52.10       | 0.00            | 0.00           |
| September       | 2022-09-15 | 27.20             | 29.00             | 0.30             | 43.50       | 0.00            | 0.00           |
| October         | 2022-10-13 | 58.70             | 39.00             | 0.00             | 2.30        | 0.00            | 2.20           |
| November        | 2022-11-17 | 8.60              | 17.20             | 6.70             | 67.50       | 2.20            | 0.00           |
| December        | 2022-12-14 | 32.50             | 30.00             | 1.00             | 36.50       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>34.3</b>       | <b>30.2</b>       | <b>1.3</b>       | <b>34.2</b> | <b>0.2</b>      | <b>0.4</b>     |
| <b>HLGW031B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 57.10             | 36.70             | 1.60             | 4.60        | 11.90           | 9.60           |
| February        | 2022-02-15 | 60.30             | 39.70             | 0.00             | 0.00        | 11.10           | 15.20          |
| March           | 2022-03-16 | 44.50             | 33.80             | 1.30             | 20.40       | 16.80           | 4.00           |
| April           | 2022-04-12 | 59.50             | 39.40             | 0.70             | 0.40        | 17.10           | 22.40          |
| May             | 2022-05-13 | 47.80             | 34.70             | 1.50             | 16.00       | 14.30           | 7.80           |
| June            | 2022-06-27 | 48.00             | 35.20             | 1.00             | 15.80       | 12.10           | 7.50           |
| July            | 2022-07-14 | 58.80             | 39.30             | 0.20             | 1.70        | 17.40           | 20.00          |
| August          | 2022-08-12 | 52.70             | 37.80             | 0.00             | 9.50        | 10.30           | 10.40          |
| September       | 2022-09-13 | 54.40             | 38.50             | 0.00             | 7.10        | 10.20           | 9.90           |
| October         | 2022-10-14 | 59.90             | 39.40             | 0.10             | 0.60        | 3.30            | 6.50           |
| November        | 2022-11-16 | 59.30             | 40.70             | 0.00             | 0.00        | 14.80           | 17.90          |
| December        | 2022-12-14 | 40.20             | 33.60             | 0.90             | 25.30       | 6.90            | 1.50           |
| <b>Average</b>  |            | <b>53.5</b>       | <b>37.4</b>       | <b>0.6</b>       | <b>8.5</b>  | <b>12.2</b>     | <b>11.1</b>    |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW032A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 56.00             | 38.00             | 0.00             | 6.00        | 0.00            | 0.00           |
| March           | 2022-03-21 | 59.70             | 40.30             | 0.00             | 0.00        | 0.00            | 2.40           |
| April           | 2022-04-13 | 43.50             | 35.70             | 0.00             | 20.80       | 0.00            | 0.00           |
| May             | 2022-05-16 | 60.10             | 39.80             | 0.00             | 0.10        | 0.00            | 2.50           |
| June            | 2022-06-22 | 58.40             | 38.40             | 0.10             | 3.10        | 8.20            | 8.00           |
| July            | 2022-07-21 | 34.60             | 30.30             | 0.30             | 34.80       | 4.70            | 0.00           |
| August          | 2022-08-16 | 46.70             | 35.10             | 0.00             | 18.20       | 0.00            | 0.00           |
| September       | 2022-09-15 | 43.30             | 33.30             | 1.70             | 21.70       | 0.00            | 0.00           |
| October         | 2022-10-13 | 60.80             | 38.70             | 0.00             | 0.50        | 0.00            | 2.90           |
| November        | 2022-11-18 | 48.70             | 35.80             | 0.00             | 15.50       | 0.00            | 0.00           |
| December        | 2022-12-14 | 32.40             | 29.60             | 0.60             | 37.40       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>49.5</b>       | <b>35.9</b>       | <b>0.2</b>       | <b>14.4</b> | <b>1.2</b>      | <b>1.4</b>     |
| <b>HLGW032B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 60.50             | 39.30             | 0.20             | 0.00        | 27.60           | 14.60          |
| February        | 2022-02-15 | 58.40             | 38.60             | 0.40             | 2.60        | 15.60           | 16.10          |
| March           | 2022-03-16 | 50.10             | 36.60             | 0.20             | 13.10       | 27.10           | 15.00          |
| April           | 2022-04-12 | 60.10             | 39.80             | 0.00             | 0.10        | 19.20           | 24.20          |
| May             | 2022-05-13 | 55.50             | 38.30             | 0.10             | 6.10        | 20.90           | 15.00          |
| June            | 2022-06-23 | 58.60             | 38.90             | 0.20             | 2.30        | 13.20           | 16.10          |
| July            | 2022-07-14 | 57.90             | 38.40             | 0.30             | 3.40        | 25.50           | 34.10          |
| August          | 2022-08-12 | 60.10             | 39.20             | 0.20             | 0.50        | 15.80           | 19.70          |
| September       | 2022-09-13 | 58.10             | 38.80             | 0.30             | 2.80        | 21.70           | 23.70          |
| October         | 2022-10-14 | 60.70             | 39.10             | 0.20             | 0.00        | 7.00            | 8.60           |
| November        | 2022-11-16 | 59.10             | 39.10             | 0.00             | 1.80        | 12.00           | 12.90          |
| December        | 2022-12-14 | 42.40             | 33.60             | 1.00             | 23.00       | 13.20           | 6.60           |
| <b>Average</b>  |            | <b>56.8</b>       | <b>38.3</b>       | <b>0.3</b>       | <b>4.6</b>  | <b>18.2</b>     | <b>17.2</b>    |
| <b>HLGW033A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 59.80             | 40.20             | 0.00             | 0.00        | 8.60            | 11.70          |
| February        | 2022-02-15 | 52.70             | 36.80             | 0.50             | 10.00       | 12.00           | 9.20           |
| March           | 2022-03-21 | 59.70             | 39.50             | 0.00             | 0.80        | 9.10            | 11.40          |
| April           | 2022-04-13 | 59.40             | 40.60             | 0.00             | 0.00        | 5.50            | 5.70           |
| May             | 2022-05-16 | 49.70             | 34.90             | 1.30             | 14.10       | 12.60           | 8.30           |
| June            | 2022-06-22 | 60.00             | 39.10             | 0.10             | 0.80        | 5.70            | 6.80           |
| July            | 2022-07-21 | 58.30             | 38.60             | 0.10             | 3.00        | 8.00            | 10.80          |
| August          | 2022-08-16 | 52.80             | 36.70             | 0.00             | 10.50       | 11.60           | 7.50           |
| September       | 2022-09-15 | 59.90             | 39.90             | 0.20             | 0.00        | 6.60            | 6.90           |
| October         | 2022-10-13 | 57.20             | 38.10             | 0.00             | 4.70        | 7.80            | 9.20           |
| November        | 2022-11-18 | 60.20             | 39.80             | 0.00             | 0.00        | 6.40            | 8.40           |
| December        | 2022-12-14 | 52.30             | 36.70             | 0.40             | 10.60       | 8.10            | 8.30           |
| <b>Average</b>  |            | <b>56.8</b>       | <b>38.4</b>       | <b>0.2</b>       | <b>4.5</b>  | <b>8.5</b>      | <b>8.7</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW033B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 18.40             | 26.60             | 3.50             | 51.50       | 0.00            | 0.00           |
| March           | 2022-03-16 | 7.90              | 18.40             | 4.90             | 68.80       | 0.00            | 0.00           |
| April           | 2022-04-12 | 59.90             | 40.10             | 0.10             |             | 0.00            | 3.20           |
| May             | 2022-05-13 | 32.20             | 26.60             | 4.60             | 36.60       | 0.00            | 0.00           |
| June            | 2022-06-23 | 59.90             | 38.30             | 0.20             | 1.60        | 0.00            | 1.10           |
| July            | 2022-07-14 | 29.70             | 28.30             | 0.30             | 41.70       | 0.00            | 0.00           |
| August          | 2022-08-12 | 10.70             | 19.00             | 3.70             | 66.60       | 1.80            | 0.00           |
| September       | 2022-09-13 | 37.60             | 27.80             | 2.70             | 31.90       | 0.00            | 0.00           |
| October         | 2022-10-19 | 14.30             | 22.00             | 1.20             | 62.50       |                 |                |
| November        | 2022-11-16 | 43.70             | 34.20             | 0.00             | 22.10       | 0.00            | 0.00           |
| December        | 2022-12-14 | 27.60             | 26.60             | 3.10             | 42.70       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>31.1</b>       | <b>28.0</b>       | <b>2.2</b>       | <b>42.6</b> | <b>0.2</b>      | <b>0.4</b>     |
| <b>HLGW034A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 54.90             | 36.50             | 0.00             | 8.60        | 2.50            | 2.20           |
| March           | 2022-03-21 | 53.90             | 37.40             | 0.00             | 8.70        | 4.80            | 3.90           |
| April           | 2022-04-13 | 60.50             | 39.10             | 0.00             | 0.40        | 5.30            | 6.80           |
| May             | 2022-05-16 | 53.50             | 36.60             | 0.00             | 9.90        | 7.60            | 6.60           |
| June            | 2022-06-22 | 60.20             | 38.40             | 0.00             | 1.40        | 7.50            | 10.30          |
| July            | 2022-07-21 | 48.30             | 34.70             | 0.20             | 16.80       | 9.50            | 6.50           |
| August          | 2022-08-16 | 60.30             | 38.40             | 0.00             | 1.30        | 7.00            | 9.00           |
| September       | 2022-09-15 | 55.40             | 37.50             | 0.30             | 6.80        | 9.60            | 9.50           |
| October         | 2022-10-13 | 51.70             | 35.90             | 0.00             | 12.40       | 8.80            | 7.40           |
| November        | 2022-11-18 | 60.70             | 39.30             | 0.00             | 0.00        | 5.50            | 7.50           |
| December        | 2022-12-14 | 46.40             | 34.70             | 0.20             | 18.70       | 10.10           | 5.00           |
| <b>Average</b>  |            | <b>55.1</b>       | <b>37.1</b>       | <b>0.1</b>       | <b>7.7</b>  | <b>7.1</b>      | <b>6.8</b>     |
| <b>HLGW034B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 58.10             | 37.50             | 0.00             | 4.40        | 10.20           | 10.20          |
| February        | 2022-02-15 | 55.30             | 37.60             | 0.10             | 7.00        | 34.70           | 27.80          |
| March           | 2022-03-16 | 50.00             | 35.30             | 0.80             | 13.90       | 11.60           | 7.60           |
| April           | 2022-04-12 | 58.30             | 38.50             | 0.00             | 3.20        | 5.10            | 5.70           |
| May             | 2022-05-13 | 28.00             | 26.00             | 2.30             | 43.70       | 3.30            | 1.00           |
| June            | 2022-06-23 | 38.80             | 30.30             | 0.40             | 30.50       | 0.00            | 0.00           |
| July            | 2022-07-14 | 26.60             | 24.40             | 2.50             | 46.50       | 0.00            | 0.00           |
| August          | 2022-08-12 | 47.10             | 30.40             | 1.20             | 21.30       | 0.00            | 0.00           |
| September       | 2022-09-13 | 37.30             | 29.90             | 1.00             | 31.80       | 0.00            | 0.00           |
| October         | 2022-10-19 | 38.10             | 30.60             | 0.10             | 31.20       |                 |                |
| November        | 2022-11-16 | 51.30             | 35.80             | 0.00             | 12.90       | 0.00            | 0.00           |
| December        | 2022-12-14 | 36.00             | 30.40             | 1.70             | 31.90       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>43.7</b>       | <b>32.2</b>       | <b>0.8</b>       | <b>23.2</b> | <b>5.9</b>      | <b>4.8</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW036B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 53.30             | 42.60             | 0.00             | 4.10       | 9.70            | 9.60           |
| February        | 2022-02-16 | 52.70             | 38.10             | 0.10             | 9.10       | 10.90           | 5.70           |
| March           | 2022-03-17 | 55.60             | 38.60             | 0.10             | 5.70       | 3.60            | 5.00           |
| April           | 2022-04-19 | 57.20             | 39.50             | 0.30             | 3.00       | 0.00            | 1.50           |
| May             | 2022-05-18 | 53.80             | 44.10             | 0.10             | 2.00       | 3.60            | 4.80           |
| June            | 2022-06-28 | 54.50             | 45.10             | 0.40             | 0.00       | 5.40            | 6.00           |
| July            | 2022-07-15 | 54.90             | 44.80             | 0.20             | 0.10       | 8.40            | 8.30           |
| August          | 2022-08-23 | 56.40             | 43.50             | 0.10             | 0.00       | 6.40            | 8.20           |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>54.8</b>       | <b>42.0</b>       | <b>0.2</b>       | <b>3.0</b> | <b>6.0</b>      | <b>6.1</b>     |
| <b>HLGW037B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 49.70             | 33.30             | 1.70             | 15.30      | 17.80           | 1.90           |
| February        | 2022-02-15 | 60.40             | 39.60             | 0.00             | 0.00       | 22.90           | 28.80          |
| March           | 2022-03-17 | 56.80             | 36.70             | 2.00             | 4.50       | 29.70           | 29.60          |
| April           |            |                   |                   |                  |            |                 |                |
| May             | 2022-05-17 | 51.40             | 36.60             | 0.20             | 11.80      | 10.50           | 9.20           |
| June            |            |                   |                   |                  |            |                 |                |
| July            | 2022-07-26 | 53.80             | 33.10             | 2.00             | 11.10      | 3.70            | 3.20           |
| August          | 2022-08-23 | 55.60             | 39.90             | 0.20             | 4.30       | 4.80            | 4.70           |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>54.6</b>       | <b>36.5</b>       | <b>1.0</b>       | <b>7.8</b> | <b>14.9</b>     | <b>12.9</b>    |
| <b>HLGW038B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 59.50             | 40.50             | 0.00             | 0.00       | 4.80            | 4.60           |
| February        | 2022-02-15 | 59.30             | 40.70             | 0.00             | 0.00       | 0.00            | 0.00           |
| March           | 2022-03-17 | 60.10             | 39.50             | 0.40             | 0.00       | 2.80            | 2.80           |
| April           | 2022-04-19 | 54.60             | 38.00             | 0.60             | 6.80       | 2.20            | 2.50           |
| May             | 2022-05-17 | 53.90             | 37.40             | 0.50             | 8.20       | 5.20            | 3.70           |
| June            | 2022-06-27 | 44.70             | 35.00             | 0.20             | 20.10      | 0.00            | 0.00           |
| July            | 2022-07-15 | 39.30             | 33.00             | 0.80             | 26.90      | 26.60           | 0.00           |
| August          | 2022-08-23 | 55.80             | 35.10             | 1.40             | 7.70       | 1.80            | 1.80           |
| September       | 2022-09-16 | 52.50             | 38.60             | 0.70             | 8.20       | 3.20            | 4.50           |
| October         | 2022-10-20 | 58.00             | 39.50             | 0.30             | 2.20       | 5.20            | 5.90           |
| November        | 2022-11-21 | 59.50             | 40.50             | 0.00             | 0.00       | 8.00            | 13.00          |
| December        | 2022-12-15 | 49.00             | 36.60             | 0.70             | 13.70      | 9.20            | 5.30           |
| <b>Average</b>  |            | <b>53.9</b>       | <b>37.9</b>       | <b>0.5</b>       | <b>7.8</b> | <b>5.8</b>      | <b>3.7</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW039A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 59.10             | 40.90             | 0.00             | 0.00        | 8.00            | 8.20           |
| February        | 2022-02-15 | 59.60             | 40.40             | 0.00             | 0.00        | 8.30            | 10.20          |
| March           | 2022-03-21 | 56.90             | 38.40             | 0.40             | 4.30        | 11.00           | 12.60          |
| April           | 2022-04-12 | 57.00             | 38.60             | 0.30             | 4.10        | 32.20           | 32.30          |
| May             | 2022-05-16 | 56.10             | 37.70             | 0.70             | 5.50        | 9.50            | 9.90           |
| June            | 2022-06-22 | 60.30             | 39.60             | 0.10             | 0.00        | 5.60            | 6.40           |
| July            | 2022-07-25 | 52.60             | 37.00             | 0.60             | 9.80        | 7.10            | 7.20           |
| August          | 2022-08-16 | 46.90             | 34.50             | 1.20             | 17.40       | 8.60            | 5.80           |
| September       | 2022-09-14 | 59.90             | 40.10             | 0.00             | 0.00        | 7.20            | 6.80           |
| October         | 2022-10-13 | 60.10             | 39.90             | 0.00             | 0.00        | 5.70            | 9.60           |
| November        | 2022-11-17 | 51.50             | 36.40             | 1.20             | 10.90       | 10.00           | 10.00          |
| December        | 2022-12-15 | 55.20             | 37.70             | 0.60             | 6.50        | 9.40            | 9.30           |
| <b>Average</b>  |            | <b>56.3</b>       | <b>38.4</b>       | <b>0.4</b>       | <b>4.9</b>  | <b>10.2</b>     | <b>10.7</b>    |
| <b>HLGW039B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 52.10             | 27.00             | 4.30             | 16.60       | 0.00            | 0.00           |
| February        | 2022-02-15 | 60.80             | 37.30             | 1.90             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-17 | 62.20             | 36.70             | 1.10             | 0.00        | 0.00            | 2.70           |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            | 2022-06-27 | 36.80             | 34.50             | 1.10             | 27.60       | 0.00            | 0.00           |
| July            | 2022-07-22 | 49.30             | 32.50             | 3.20             | 15.00       | 5.50            | 0.00           |
| August          | 2022-08-23 | 58.50             | 38.90             | 0.00             | 2.60        | 0.00            | 3.70           |
| September       | 2022-09-16 | 31.70             | 34.80             | 0.50             | 33.00       | 6.40            | 0.00           |
| October         | 2022-10-27 | 60.50             | 39.40             | 0.00             | 0.10        |                 | 2.80           |
| November        | 2022-11-22 | 58.10             | 38.40             | 0.00             | 3.50        | 3.60            | 5.90           |
| December        | 2022-12-15 | 52.80             | 37.80             | 0.00             | 9.40        | 7.40            | 3.60           |
| <b>Average</b>  |            | <b>52.3</b>       | <b>35.7</b>       | <b>1.2</b>       | <b>10.8</b> | <b>2.5</b>      | <b>1.9</b>     |
| <b>HLGW040A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 58.00             | 42.00             | 0.00             | 0.00        | 6.50            | 6.30           |
| February        | 2022-02-15 | 59.30             | 40.70             | 0.00             | 0.00        | 6.40            | 17.10          |
| March           | 2022-03-21 | 52.80             | 38.80             | 0.00             | 8.40        | 10.00           | 7.40           |
| April           | 2022-04-13 | 53.00             | 38.50             | 0.00             | 8.50        | 2.40            | 2.40           |
| May             | 2022-05-16 | 59.20             | 39.70             | 0.10             | 1.00        | 2.20            | 2.70           |
| June            | 2022-06-22 | 57.30             | 38.60             | 0.10             | 4.00        | 7.80            | 7.70           |
| July            | 2022-07-21 | 52.20             | 37.70             | 0.10             | 10.00       | 8.00            | 7.80           |
| August          | 2022-08-17 | 53.30             | 38.20             | 0.00             | 8.50        | 7.60            | 7.20           |
| September       | 2022-09-15 | 55.50             | 38.90             | 0.00             | 5.60        | 5.60            | 5.40           |
| October         | 2022-10-13 | 56.00             | 38.90             | 0.00             | 5.10        | 7.00            | 6.60           |
| November        | 2022-11-17 | 49.60             | 36.90             | 0.00             | 13.50       | 4.10            | 4.30           |
| December        | 2022-12-15 | 44.30             | 35.00             | 0.30             | 20.40       | 2.90            | 1.50           |
| <b>Average</b>  |            | <b>54.2</b>       | <b>38.7</b>       | <b>0.1</b>       | <b>7.1</b>  | <b>5.9</b>      | <b>6.4</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW040B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 53.50             | 35.70             | 0.40             | 10.40       | 2.10            | 5.80           |
| February        | 2022-02-15 | 61.80             | 38.20             | 0.00             | 0.00        | 6.50            | 8.60           |
| March           | 2022-03-17 | 61.30             | 38.60             | 0.10             | 0.00        | 6.90            | 11.30          |
| April           | 2022-04-19 | 47.90             | 35.20             | 0.60             | 16.30       | 8.60            | 6.00           |
| May             | 2022-05-17 | 56.20             | 38.00             | 0.20             | 5.60        | 6.30            | 6.00           |
| June            | 2022-06-28 | 59.30             | 38.80             | 0.30             | 1.60        | 1.90            | 2.20           |
| July            | 2022-07-22 | 54.30             | 39.00             | 0.20             | 6.50        | 6.20            | 6.00           |
| August          | 2022-08-23 | 43.90             | 35.30             | 0.10             | 20.70       | 1.80            | 0.00           |
| September       | 2022-09-16 | 52.10             | 38.40             | 0.00             | 9.50        | 4.10            | 3.60           |
| October         | 2022-10-20 | 53.70             | 38.50             | 0.00             | 7.80        | 4.10            | 3.80           |
| November        | 2022-11-21 | 60.50             | 39.50             | 0.00             | 0.00        | 1.90            | 3.20           |
| December        | 2022-12-15 | 61.10             | 38.70             | 0.20             | 0.00        | 2.30            | 4.50           |
| <b>Average</b>  |            | <b>55.5</b>       | <b>37.8</b>       | <b>0.2</b>       | <b>6.5</b>  | <b>4.4</b>      | <b>5.1</b>     |
| <b>HLGW041A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 47.30             | 36.90             | 0.00             | 15.80       | 0.00            | 0.00           |
| March           | 2022-03-21 | 3.70              | 16.50             | 1.70             | 78.10       | 0.00            | 0.00           |
| April           | 2022-04-13 | 8.40              | 17.80             | 6.40             | 67.40       | 0.00            | 0.00           |
| May             | 2022-05-16 | 33.10             | 31.40             | 0.10             | 35.40       | 1.50            | 0.00           |
| June            | 2022-06-22 | 21.60             | 25.80             | 0.10             | 52.50       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-17 | 20.10             | 24.60             | 0.10             | 55.20       | 0.00            | 0.00           |
| September       | 2022-09-15 | 27.40             | 27.40             | 2.60             | 42.60       | 0.00            | 0.00           |
| October         | 2022-10-13 | 55.00             | 38.50             | 0.00             | 6.50        | 1.80            | 1.50           |
| November        | 2022-11-17 | 31.00             | 31.80             | 0.30             | 36.90       | 0.00            | 0.00           |
| December        | 2022-12-15 | 20.30             | 22.90             | 3.00             | 53.80       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>26.8</b>       | <b>27.4</b>       | <b>1.4</b>       | <b>44.4</b> | <b>0.3</b>      | <b>0.2</b>     |
| <b>HLGW041B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 60.50             | 39.30             | 0.20             | 0.00        | 4.90            | 11.70          |
| February        | 2022-02-15 | 56.20             | 39.60             | 0.00             | 4.20        | 2.50            | 4.10           |
| March           | 2022-03-17 | 54.40             | 39.10             | 0.00             | 6.50        | 8.80            | 7.70           |
| April           | 2022-04-19 | 44.70             | 36.10             | 0.10             | 19.10       | 6.70            | 5.70           |
| May             | 2022-05-17 | 55.40             | 39.00             | 0.00             | 5.60        | 5.90            | 6.00           |
| June            | 2022-06-27 | 51.10             | 37.40             | 0.10             | 11.40       | 5.30            | 3.20           |
| July            | 2022-07-22 | 58.40             | 39.70             | 0.10             | 1.80        | 10.70           | 11.40          |
| August          | 2022-08-24 | 56.90             | 39.10             | 0.00             | 4.00        | 6.30            | 6.20           |
| September       | 2022-09-16 | 51.70             | 37.50             | 0.20             | 10.60       | 6.30            | 4.80           |
| October         | 2022-10-20 | 59.50             | 40.50             | 0.00             | 0.00        | 3.80            | 7.10           |
| November        | 2022-11-21 | 38.30             | 33.10             | 0.60             | 28.00       | 4.10            | 0.00           |
| December        | 2022-12-15 | 43.30             | 34.90             | 0.20             | 21.60       | 7.20            | 5.10           |
| <b>Average</b>  |            | <b>52.5</b>       | <b>37.9</b>       | <b>0.1</b>       | <b>9.4</b>  | <b>6.0</b>      | <b>6.1</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW042A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 59.90             | 39.20             | 0.00             | 0.90        | 4.20            | 4.80           |
| February        | 2022-02-15 | 53.70             | 37.50             | 0.20             | 8.60        | 8.80            | 4.50           |
| March           | 2022-03-21 | 48.40             | 36.20             | 0.20             | 15.20       | 7.10            | 4.60           |
| April           | 2022-04-13 | 54.80             | 38.80             | 0.00             | 6.40        | 4.60            | 4.50           |
| May             |            |                   |                   |                  |             |                 |                |
| June            | 2022-06-22 | 48.30             | 35.60             | 0.30             | 15.80       | 3.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-17 | 51.40             | 36.60             | 0.00             | 12.00       | 0.00            | 0.00           |
| September       | 2022-09-15 | 49.90             | 36.60             | 0.10             | 13.40       | 0.00            | 1.00           |
| October         | 2022-10-13 | 51.90             | 36.50             | 0.30             | 11.30       | 3.00            | 2.60           |
| November        | 2022-11-18 | 54.00             | 38.00             | 0.10             | 7.90        | 4.00            | 4.30           |
| December        | 2022-12-15 | 48.60             | 35.60             | 0.50             | 15.30       | 4.20            | 1.50           |
| <b>Average</b>  |            | <b>52.1</b>       | <b>37.1</b>       | <b>0.2</b>       | <b>10.7</b> | <b>3.9</b>      | <b>2.8</b>     |
| <b>HLGW042B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 58.30             | 38.80             | 0.00             | 2.90        | 26.50           | 25.90          |
| February        | 2022-02-15 | 56.80             | 38.90             | 0.00             | 4.30        | 20.00           | 19.80          |
| March           | 2022-03-16 | 52.20             | 37.90             | 0.00             | 9.90        | 25.00           | 18.80          |
| April           | 2022-04-12 | 59.20             | 40.80             | 0.00             | 0.00        | 20.10           | 21.40          |
| May             | 2022-05-13 | 56.70             | 38.80             | 0.00             | 4.50        | 21.70           | 19.30          |
| June            | 2022-06-30 | 51.30             | 37.10             | 0.10             | 11.50       | 21.40           | 21.40          |
| July            | 2022-07-14 | 54.00             | 37.70             | 0.20             | 8.10        | 21.90           | 23.40          |
| August          | 2022-08-12 | 55.20             | 38.20             | 0.00             | 6.60        | 18.40           | 18.40          |
| September       | 2022-09-13 | 53.10             | 37.90             | 0.00             | 9.00        | 18.70           | 18.10          |
| October         | 2022-10-19 | 52.30             | 37.50             | 0.00             | 10.20       | 18.00           | 13.00          |
| November        | 2022-11-16 | 59.30             | 39.80             | 0.00             | 0.90        | 18.60           | 19.10          |
| December        | 2022-12-14 | 45.50             | 36.10             | 0.20             | 18.20       | 17.50           | 7.10           |
| <b>Average</b>  |            | <b>54.5</b>       | <b>38.3</b>       | <b>0.0</b>       | <b>7.2</b>  | <b>20.7</b>     | <b>18.8</b>    |
| <b>HLGW043A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 61.10             | 38.90             | 0.00             | 0.00        | 0.00            | 2.50           |
| March           | 2022-03-21 | 59.40             | 38.20             | 0.00             | 2.40        | 2.50            | 4.20           |
| April           | 2022-04-13 | 60.80             | 38.20             | 0.00             | 1.00        | 1.50            | 1.50           |
| May             | 2022-05-16 | 60.70             | 38.60             | 0.00             | 0.70        | 2.50            | 3.30           |
| June            | 2022-06-22 | 53.60             | 35.90             | 0.20             | 10.30       | 2.60            | 2.40           |
| July            | 2022-07-21 | 56.30             | 36.70             | 0.30             | 6.70        | 3.10            | 3.20           |
| August          | 2022-08-17 | 56.60             | 36.80             | 0.20             | 6.40        | 5.00            | 4.50           |
| September       | 2022-09-15 | 52.60             | 36.90             | 0.30             | 10.20       | 6.60            | 3.80           |
| October         | 2022-10-13 | 59.50             | 38.00             | 0.20             | 2.30        | 4.80            | 6.60           |
| November        | 2022-11-18 | 49.70             | 35.40             | 0.50             | 14.40       | 7.00            | 5.10           |
| December        | 2022-12-15 | 50.80             | 35.60             | 0.40             | 13.20       | 1.50            | 2.20           |
| <b>Average</b>  |            | <b>56.5</b>       | <b>37.2</b>       | <b>0.2</b>       | <b>6.1</b>  | <b>3.4</b>      | <b>3.6</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW043B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 50.70             | 34.70             | 0.00             | 14.60       | 0.00            | 0.00           |
| February        | 2022-02-15 | 45.10             | 32.60             | 0.00             | 22.30       | 0.00            | 0.00           |
| March           | 2022-03-16 | 21.10             | 21.50             | 6.60             | 50.80       | 0.00            | 0.00           |
| April           | 2022-04-12 | 37.60             | 29.20             | 3.90             | 29.30       | 0.00            | 0.00           |
| May             | 2022-05-13 | 55.70             | 36.80             | 0.00             | 7.50        | 0.00            | 1.10           |
| June            | 2022-06-23 | 25.00             | 25.80             | 1.30             | 47.90       | 0.00            | 0.00           |
| July            | 2022-07-14 | 43.90             | 32.50             | 0.10             | 23.50       | 2.60            | 0.00           |
| August          | 2022-08-12 | 25.50             | 25.80             | 2.20             | 46.50       | 0.00            | 0.00           |
| September       | 2022-09-13 | 47.40             | 35.20             | 0.00             | 17.40       | 0.00            | 1.00           |
| October         | 2022-10-19 | 45.50             | 34.40             | 0.10             | 20.00       |                 |                |
| November        | 2022-11-16 | 45.50             | 35.10             | 0.00             | 19.40       | 0.00            | 0.00           |
| December        | 2022-12-14 | 36.90             | 32.10             | 0.30             | 30.70       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>40.0</b>       | <b>31.3</b>       | <b>1.2</b>       | <b>27.5</b> | <b>0.2</b>      | <b>0.2</b>     |
| <b>HLGW044A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 61.20             | 38.80             | 0.00             | 0.00        | 34.20           | 27.30          |
| February        | 2022-02-15 | 58.80             | 37.90             | 0.00             | 3.30        | 4.80            | 5.00           |
| March           | 2022-03-21 | 58.90             | 38.40             | 0.00             | 2.70        | 0.00            | 0.00           |
| April           | 2022-04-13 | 58.10             | 38.20             | 0.00             | 3.70        | 10.30           | 9.90           |
| May             | 2022-05-16 | 53.80             | 36.60             | 0.00             | 9.60        | 11.20           | 6.50           |
| June            | 2022-06-22 | 57.20             | 37.10             | 0.00             | 5.70        | 4.10            | 4.10           |
| July            | 2022-07-21 | 56.10             | 36.70             | 0.00             | 7.20        | 4.90            | 4.10           |
| August          | 2022-08-17 | 52.40             | 36.00             | 0.00             | 11.60       | 11.60           | 10.20          |
| September       | 2022-09-15 | 54.20             | 36.80             | 0.10             | 8.90        | 6.90            | 5.60           |
| October         | 2022-10-13 | 54.50             | 36.60             | 0.00             | 8.90        | 8.40            | 8.10           |
| November        | 2022-11-18 | 58.00             | 37.70             | 0.00             | 4.30        | 3.50            | 4.50           |
| December        | 2022-12-15 | 54.80             | 36.90             | 0.00             | 8.30        | 4.70            | 4.70           |
| <b>Average</b>  |            | <b>56.5</b>       | <b>37.3</b>       | <b>0.0</b>       | <b>6.2</b>  | <b>8.7</b>      | <b>7.5</b>     |
| <b>HLGW044B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 37.20             | 20.60             | 0.00             | 42.20       | 0.00            | 0.00           |
| March           | 2022-03-16 | 34.30             | 22.40             | 2.40             | 40.90       | 0.00            | 0.00           |
| April           | 2022-04-12 | 44.40             | 23.60             | 0.00             | 32.00       | 0.00            | 0.00           |
| May             | 2022-05-13 | 44.00             | 34.00             | 0.00             | 22.00       | 0.00            | 0.00           |
| June            | 2022-06-23 | 41.10             | 29.40             | 0.10             | 29.40       | 0.00            | 0.00           |
| July            | 2022-07-14 | 42.40             | 29.50             | 0.60             | 27.50       | 0.00            | 0.00           |
| August          | 2022-08-12 | 39.40             | 28.00             | 1.20             | 31.40       | 0.00            | 0.00           |
| September       | 2022-09-13 | 38.20             | 23.70             | 2.30             | 35.80       | 0.00            | 0.00           |
| October         | 2022-10-19 | 45.40             | 34.40             | 0.00             | 20.20       |                 |                |
| November        | 2022-11-16 | 49.40             | 35.90             | 0.00             | 14.70       | 0.00            | 0.00           |
| December        | 2022-12-14 | 43.50             | 34.30             | 0.40             | 21.80       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>41.8</b>       | <b>28.7</b>       | <b>0.6</b>       | <b>28.9</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW047A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 60.00             | 40.00             | 0.00             | 0.00        | 7.10            | 6.80           |
| February        | 2022-02-15 | 60.70             | 39.30             | 0.00             | 0.00        | 17.70           | 18.70          |
| March           | 2022-03-21 | 55.80             | 38.60             | 0.00             | 5.60        | 12.30           | 11.60          |
| April           | 2022-04-13 | 55.70             | 37.90             | 0.00             | 6.40        | 9.40            | 8.60           |
| May             | 2022-05-16 | 53.90             | 37.10             | 0.20             | 8.80        | 5.70            | 5.70           |
| June            | 2022-06-22 | 57.70             | 38.00             | 0.30             | 4.00        | 7.00            | 7.20           |
| July            | 2022-07-21 | 53.40             | 37.60             | 0.20             | 8.80        | 7.30            | 7.40           |
| August          | 2022-08-17 | 51.60             | 37.60             | 0.00             | 10.80       | 7.10            | 7.10           |
| September       | 2022-09-14 | 56.00             | 39.10             | 0.00             | 4.90        | 9.30            | 9.10           |
| October         | 2022-10-13 | 57.20             | 39.50             | 0.00             | 3.30        | 5.40            | 6.90           |
| November        | 2022-11-17 | 48.70             | 37.30             | 0.00             | 14.00       | 6.10            | 5.00           |
| December        | 2022-12-15 | 54.20             | 45.80             | 0.00             | 0.00        | 32.10           | 32.10          |
| <b>Average</b>  |            | <b>55.4</b>       | <b>39.0</b>       | <b>0.1</b>       | <b>5.6</b>  | <b>10.5</b>     | <b>10.5</b>    |
| <b>HLGW048A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 60.30             | 39.70             | 0.00             | 0.00        | 6.20            | 6.40           |
| February        | 2022-02-15 | 49.80             | 36.80             | 0.00             | 13.40       | 5.40            | 3.10           |
| March           | 2022-03-21 | 53.20             | 37.80             | 0.00             | 9.00        | 6.60            | 5.10           |
| April           | 2022-04-13 | 58.30             | 39.20             | 0.00             | 2.50        | 3.50            | 4.40           |
| May             | 2022-05-16 | 48.80             | 36.60             | 0.00             | 14.60       | 2.20            | 0.00           |
| June            | 2022-06-22 | 54.90             | 37.80             | 0.00             | 7.30        | 0.00            | 2.10           |
| July            | 2022-07-21 | 44.20             | 35.30             | 0.10             | 20.40       | 4.90            | 4.60           |
| August          | 2022-08-17 | 51.20             | 37.60             | 0.00             | 11.20       | 3.40            | 3.70           |
| September       | 2022-09-14 | 47.30             | 36.50             | 0.00             | 16.20       | 6.50            | 6.20           |
| October         | 2022-10-13 | 39.70             | 34.10             | 0.00             | 26.20       | 4.40            | 1.00           |
| November        | 2022-11-17 | 50.50             | 36.80             | 0.00             | 12.70       | 2.40            | 2.90           |
| December        | 2022-12-15 | 52.30             | 38.20             | 0.00             | 9.50        | 3.20            | 2.20           |
| <b>Average</b>  |            | <b>50.9</b>       | <b>37.2</b>       | <b>0.0</b>       | <b>11.9</b> | <b>4.1</b>      | <b>3.5</b>     |
| <b>HLGW049A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 36.00             | 31.00             | 0.00             | 33.00       | 0.00            | 0.00           |
| March           | 2022-03-21 | 29.00             | 29.20             | 0.50             | 41.30       | 0.00            | 0.00           |
| April           | 2022-04-13 | 28.80             | 29.00             | 0.90             | 41.30       | 1.80            | 0.00           |
| May             | 2022-05-16 | 35.40             | 30.10             | 0.10             | 34.40       | 0.00            | 0.00           |
| June            | 2022-06-22 | 37.00             | 31.80             | 0.00             | 31.20       | 0.00            | 0.00           |
| July            | 2022-07-21 | 35.80             | 31.10             | 0.10             | 33.00       | 0.00            | 0.00           |
| August          | 2022-08-17 | 30.30             | 29.60             | 0.00             | 40.10       | 0.00            | 0.00           |
| September       | 2022-09-15 | 33.10             | 31.00             | 0.20             | 35.70       | 0.00            | 0.00           |
| October         | 2022-10-13 | 32.50             | 30.40             | 0.10             | 37.00       |                 |                |
| November        | 2022-11-17 | 57.20             | 36.50             | 0.70             | 5.60        | 0.00            | 1.90           |
| December        | 2022-12-15 | 14.10             | 17.00             | 6.60             | 62.30       | 1.90            | 0.00           |
| <b>Average</b>  |            | <b>33.6</b>       | <b>29.7</b>       | <b>0.8</b>       | <b>35.9</b> | <b>0.4</b>      | <b>0.2</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW050A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 47.30             | 34.90             | 0.00             | 17.80       | 0.00            | 0.00           |
| March           | 2022-03-21 | 37.70             | 32.90             | 0.00             | 29.40       | 0.00            | 0.00           |
| April           | 2022-04-13 | 41.00             | 33.40             | 0.00             | 25.60       | 2.40            | 0.00           |
| May             | 2022-05-16 | 40.90             | 33.30             | 0.00             | 25.80       | 0.00            | 0.00           |
| June            | 2022-06-22 | 35.10             | 31.50             | 0.10             | 33.30       | 0.00            | 0.00           |
| July            | 2022-07-21 | 39.20             | 32.90             | 0.00             | 27.90       | 0.00            | 0.00           |
| August          | 2022-08-17 | 37.50             | 32.40             | 0.20             | 29.90       | 0.00            | 0.00           |
| September       | 2022-09-15 | 37.90             | 32.60             | 0.60             | 28.90       | 0.00            | 0.00           |
| October         | 2022-10-13 | 38.60             | 31.60             | 0.10             | 29.70       |                 | 0.00           |
| November        | 2022-11-17 | 45.80             | 33.80             | 0.00             | 20.40       | 0.00            | 0.00           |
| December        | 2022-12-15 | 55.10             | 37.50             | 0.00             | 7.40        | 0.00            | 1.90           |
| <b>Average</b>  |            | <b>41.5</b>       | <b>33.3</b>       | <b>0.1</b>       | <b>25.1</b> | <b>0.2</b>      | <b>0.2</b>     |
| <b>HLGW051A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-15 | 49.00             | 35.60             | 0.10             | 15.30       | 0.00            | 0.00           |
| March           | 2022-03-21 | 47.20             | 35.10             | 0.00             | 17.70       | 0.00            | 0.00           |
| April           | 2022-04-13 | 48.70             | 34.30             | 0.00             | 17.00       | 0.00            | 0.00           |
| May             | 2022-05-16 | 53.80             | 36.50             | 0.00             | 9.70        | 0.00            | 0.00           |
| June            | 2022-06-22 | 58.60             | 38.20             | 0.00             | 3.20        | 0.00            | 1.00           |
| July            | 2022-07-21 | 27.30             | 28.70             | 0.00             | 44.00       | 4.10            | 1.00           |
| August          | 2022-08-17 | 34.10             | 31.00             | 0.00             | 34.90       | 0.00            | 0.00           |
| September       | 2022-09-15 | 40.40             | 33.40             | 0.20             | 26.00       | 0.00            | 2.60           |
| October         | 2022-10-13 | 37.70             | 32.00             | 0.00             | 30.30       |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-15 | 56.30             | 38.20             | 0.00             | 5.50        | 5.30            | 4.80           |
| <b>Average</b>  |            | <b>45.3</b>       | <b>34.3</b>       | <b>0.0</b>       | <b>20.4</b> | <b>1.0</b>      | <b>1.0</b>     |
| <b>LHGW002A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |

Appendix B2, continued

| Month           | Date                    | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|-------------------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>LHGW0003</b> |                         |                   |                   |                  |            |                 |                |
| January         |                         |                   |                   |                  |            |                 |                |
| February        |                         |                   |                   |                  |            |                 |                |
| March           |                         |                   |                   |                  |            |                 |                |
| April           |                         |                   |                   |                  |            |                 |                |
| May             |                         |                   |                   |                  |            |                 |                |
| June            |                         |                   |                   |                  |            |                 |                |
| July            |                         |                   |                   |                  |            |                 |                |
| August          |                         |                   |                   |                  |            |                 |                |
| September       |                         |                   |                   |                  |            |                 |                |
| October         |                         |                   |                   |                  |            |                 |                |
| November        |                         |                   |                   |                  |            |                 |                |
| December        |                         |                   |                   |                  |            |                 |                |
| <b>Average</b>  |                         |                   |                   |                  |            |                 |                |
| <b>LHGW0004</b> |                         |                   |                   |                  |            |                 |                |
| January         |                         |                   |                   |                  |            |                 |                |
| February        |                         |                   |                   |                  |            |                 |                |
| March           |                         |                   |                   |                  |            |                 |                |
| April           |                         |                   |                   |                  |            |                 |                |
| May             |                         |                   |                   |                  |            |                 |                |
| June            |                         |                   |                   |                  |            |                 |                |
| July            |                         |                   |                   |                  |            |                 |                |
| August          |                         |                   |                   |                  |            |                 |                |
| September       |                         |                   |                   |                  |            |                 |                |
| October         |                         |                   |                   |                  |            |                 |                |
| November        |                         |                   |                   |                  |            |                 |                |
| December        |                         |                   |                   |                  |            |                 |                |
| <b>Average</b>  |                         |                   |                   |                  |            |                 |                |
| <b>LHGW0006</b> |                         |                   |                   |                  |            |                 |                |
| January         | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| February        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| March           | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| April           | Decommissioned May 2014 |                   |                   |                  |            |                 |                |
| May             | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| June            | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| July            | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| August          | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| September       | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| October         | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| November        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| December        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| <b>Average</b>  |                         | <b>0.0</b>        | <b>0.0</b>        | <b>0.0</b>       | <b>0.0</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date                    | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|-------------------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>LHGW0007</b> |                         |                   |                   |                  |            |                 |                |
| January         |                         |                   |                   |                  |            |                 |                |
| February        |                         |                   |                   |                  |            |                 |                |
| March           |                         |                   |                   |                  |            |                 |                |
| April           |                         |                   |                   |                  |            |                 |                |
| May             |                         |                   |                   |                  |            |                 |                |
| June            |                         |                   |                   |                  |            |                 |                |
| July            |                         |                   |                   |                  |            |                 |                |
| August          |                         |                   |                   |                  |            |                 |                |
| September       |                         |                   |                   |                  |            |                 |                |
| October         |                         |                   |                   |                  |            |                 |                |
| November        |                         |                   |                   |                  |            |                 |                |
| December        |                         |                   |                   |                  |            |                 |                |
| <b>Average</b>  |                         |                   |                   |                  |            |                 |                |
| <b>LHGW0008</b> |                         |                   |                   |                  |            |                 |                |
| January         |                         |                   |                   |                  |            |                 |                |
| February        |                         |                   |                   |                  |            |                 |                |
| March           |                         |                   |                   |                  |            |                 |                |
| April           |                         |                   |                   |                  |            |                 |                |
| May             |                         |                   |                   |                  |            |                 |                |
| June            |                         |                   |                   |                  |            |                 |                |
| July            |                         |                   |                   |                  |            |                 |                |
| August          |                         |                   |                   |                  |            |                 |                |
| September       |                         |                   |                   |                  |            |                 |                |
| October         |                         |                   |                   |                  |            |                 |                |
| November        |                         |                   |                   |                  |            |                 |                |
| December        |                         |                   |                   |                  |            |                 |                |
| <b>Average</b>  |                         |                   |                   |                  |            |                 |                |
| <b>LHGW0009</b> |                         |                   |                   |                  |            |                 |                |
| January         | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| February        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| March           | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| April           | Decommissioned May 2014 |                   |                   |                  |            |                 |                |
| May             | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| June            | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| July            | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| August          | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| September       | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| October         | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| November        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| December        | ---                     | ---               | ---               | ---              | ---        | ---             | ---            |
| <b>Average</b>  |                         | <b>0.0</b>        | <b>0.0</b>        | <b>0.0</b>       | <b>0.0</b> | <b>0.0</b>      | <b>0.0</b>     |



Appendix B2, continued

| Month          | Date                    | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|----------------|-------------------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>LHW0010</b> |                         |                   |                   |                  |             |                 |                |
| January        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| February       | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| March          | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| April          | Decommissioned May 2014 |                   |                   |                  |             |                 |                |
| May            | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| June           | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| July           | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| August         | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| September      | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| October        | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| November       | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| December       | ---                     | ---               | ---               | ---              | ---         | ---             | ---            |
| <b>Average</b> |                         | <b>0.0</b>        | <b>0.0</b>        | <b>0.0</b>       | <b>0.0</b>  | <b>0.0</b>      | <b>0.0</b>     |
| <b>LHW0013</b> |                         |                   |                   |                  |             |                 |                |
| January        | 2022-01-28              | 55.90             | 36.70             | 1.40             | 6.00        | 4.90            | 5.00           |
| February       | 2022-02-18              | 55.50             | 36.70             | 1.10             | 6.70        | 6.80            | 6.80           |
| March          | 2022-03-23              | 53.70             | 37.00             | 1.00             | 8.30        | 5.10            | 5.30           |
| April          | 2022-04-19              | 56.50             | 38.70             | 0.30             | 4.50        | 6.80            | 6.90           |
| May            | 2022-05-18              | 57.50             | 39.40             | 0.00             | 3.10        | 7.90            | 9.90           |
| June           | 2022-06-29              | 43.10             | 33.70             | 1.70             | 21.50       | 7.10            | 4.00           |
| July           | 2022-07-22              | 40.50             | 29.50             | 4.40             | 25.60       | 2.70            | 1.60           |
| August         | 2022-08-24              | 23.50             | 20.20             | 7.50             | 48.80       | 3.10            | 0.00           |
| September      | 2022-09-22              | 7.60              | 10.10             | 12.50            | 69.80       | 0.00            | 0.00           |
| October        | 2022-10-28              | 45.30             | 34.80             | 2.30             | 17.60       | 0.00            | 1.30           |
| November       | 2022-11-30              | 57.50             | 40.20             | 0.00             | 2.30        | 0.00            | 1.90           |
| December       |                         |                   |                   |                  |             |                 |                |
| <b>Average</b> |                         | <b>45.1</b>       | <b>32.5</b>       | <b>2.9</b>       | <b>19.5</b> | <b>4.0</b>      | <b>3.9</b>     |
| <b>LHW0017</b> |                         |                   |                   |                  |             |                 |                |
| January        |                         |                   |                   |                  |             |                 |                |
| February       |                         |                   |                   |                  |             |                 |                |
| March          |                         |                   |                   |                  |             |                 |                |
| April          |                         |                   |                   |                  |             |                 |                |
| May            |                         |                   |                   |                  |             |                 |                |
| June           |                         |                   |                   |                  |             |                 |                |
| July           |                         |                   |                   |                  |             |                 |                |
| August         |                         |                   |                   |                  |             |                 |                |
| September      |                         |                   |                   |                  |             |                 |                |
| October        |                         |                   |                   |                  |             |                 |                |
| November       |                         |                   |                   |                  |             |                 |                |
| December       |                         |                   |                   |                  |             |                 |                |
| <b>Average</b> |                         |                   |                   |                  |             |                 |                |

Appendix B2, continued

| Month           | Date | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance % | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------|-------------------|-------------------|------------------|-----------|-----------------|----------------|
| <b>LHGW0019</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      |                   |                   |                  |           |                 |                |
| <b>LHGW0020</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      |                   |                   |                  |           |                 |                |
| <b>LHGW0021</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      |                   |                   |                  |           |                 |                |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>LHGW0022</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |
| <b>LHGW0023</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-18 | 11.30             | 7.80              | 13.10            | 67.80       | 0.00            | 0.00           |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>11.3</b>       | <b>7.8</b>        | <b>13.1</b>      | <b>67.8</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>TLGW001A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>---</b>        | <b>---</b>        | <b>---</b>       | <b>---</b>  | <b>---</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance % | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------|-------------------|-------------------|------------------|-----------|-----------------|----------------|
| <b>TLGW001B</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      | ---               | ---               | ---              | ---       | ---             | <b>0.0</b>     |
| <b>TLGW002A</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      | ---               | ---               | ---              | ---       | ---             | <b>0.0</b>     |
| <b>TLGW002B</b> |      |                   |                   |                  |           |                 |                |
| January         |      |                   |                   |                  |           |                 |                |
| February        |      |                   |                   |                  |           |                 |                |
| March           |      |                   |                   |                  |           |                 |                |
| April           |      |                   |                   |                  |           |                 |                |
| May             |      |                   |                   |                  |           |                 |                |
| June            |      |                   |                   |                  |           |                 |                |
| July            |      |                   |                   |                  |           |                 |                |
| August          |      |                   |                   |                  |           |                 |                |
| September       |      |                   |                   |                  |           |                 |                |
| October         |      |                   |                   |                  |           |                 |                |
| November        |      |                   |                   |                  |           |                 |                |
| December        |      |                   |                   |                  |           |                 |                |
| <b>Average</b>  |      | ---               | ---               | ---              | ---       | ---             | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>TLGW002C</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | ---               | ---               | ---              | ---         | ---             | <b>0.0</b>     |
| <b>VLGW001D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 70.30             | 12.20             | 1.10             | 16.40       | 3.10            | 3.80           |
| February        | 2022-02-28 | 72.10             | 10.20             | 1.60             | 16.10       | 0.00            | 0.00           |
| March           | 2022-03-23 | 88.80             | 9.50              | 0.00             | 1.70        | 0.00            | 0.00           |
| April           | 2022-04-13 | 92.30             | 7.60              | 0.10             | 0.00        | 0.00            | 1.30           |
| May             | 2022-05-20 | 75.70             | 11.40             | 0.00             | 12.90       | 0.00            | 2.10           |
| June            | 2022-06-27 | 88.70             | 6.80              | 0.00             | 4.50        | 0.00            | 1.20           |
| July            | 2022-07-21 | 62.40             | 11.00             | 0.40             | 26.20       | 4.80            | 0.00           |
| August          | 2022-08-19 | 91.20             | 7.50              | 0.10             | 1.20        | 0.00            | 1.80           |
| September       | 2022-09-23 | 57.30             | 12.90             | 0.10             | 29.70       | 1.60            | 1.60           |
| October         | 2022-10-19 | 47.60             | 12.60             | 0.00             | 39.80       | 2.80            |                |
| November        | 2022-11-23 | 88.80             | 7.70              | 0.00             | 3.50        | 0.00            | 1.30           |
| December        | 2022-12-16 | 61.50             | 12.10             | 0.10             | 26.30       | 2.10            | 0.00           |
| <b>Average</b>  |            | <b>74.7</b>       | <b>10.1</b>       | <b>0.3</b>       | <b>14.9</b> | <b>1.2</b>      | <b>1.2</b>     |
| <b>VLGW001S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-13 | 46.30             | 26.90             | 2.80             | 24.00       | 0.00            | 0.00           |
| May             | 2022-05-30 | 62.10             | 30.80             | 0.30             | 6.80        | 0.00            | 0.00           |
| June            | 2022-06-27 | 59.70             | 29.30             | 0.00             | 11.00       | 0.00            | 0.00           |
| July            | 2022-07-21 | 63.00             | 30.10             | 0.40             | 6.50        | 0.00            | 0.00           |
| August          | 2022-08-19 | 65.20             | 30.60             | 0.30             | 3.90        | 0.00            | 0.00           |
| September       | 2022-09-23 | 38.50             | 25.70             | 0.10             | 35.70       | 0.00            | 0.00           |
| October         | 2022-10-19 | 27.80             | 18.70             | 5.40             | 48.10       | 0.00            |                |
| November        | 2022-11-23 | 62.50             | 31.30             | 0.00             | 6.20        | 0.00            | 0.00           |
| December        | 2022-12-16 | 39.70             | 27.90             | 0.00             | 32.40       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>51.6</b>       | <b>27.9</b>       | <b>1.0</b>       | <b>19.4</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW002D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | ---               | ---               | ---              | ---         | ---             | <b>0.0</b>     |
| <b>VLGW002S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | ---               | ---               | ---              | ---         | ---             | <b>0.0</b>     |
| <b>VLGW003D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 76.70             | 22.10             | 0.00             | 1.20        | 0.00            | 0.00           |
| February        | 2022-02-28 | 60.60             | 18.90             | 0.30             | 20.20       | 0.00            | 0.00           |
| March           | 2022-03-22 | 64.50             | 18.10             | 0.10             | 17.30       | 0.00            | 0.00           |
| April           | 2022-04-13 | 75.00             | 17.70             | 0.00             | 7.30        | 6.00            | 5.90           |
| May             | 2022-05-20 | 79.20             | 20.80             | 0.00             | 0.00        | 1.70            | 2.50           |
| June            | 2022-06-27 | 72.10             | 18.90             | 0.10             | 8.90        | 0.00            | 0.00           |
| July            | 2022-07-21 | 72.70             | 19.60             | 0.50             | 7.20        | 6.30            | 6.00           |
| August          | 2022-08-25 | 74.00             | 19.60             | 0.20             | 6.20        | 6.40            | 8.90           |
| September       | 2022-09-15 | 60.30             | 18.70             | 0.20             | 20.80       | 3.30            | 3.10           |
| October         | 2022-10-19 | 65.70             | 18.20             | 0.10             | 16.00       | 4.80            | 4.70           |
| November        | 2022-11-23 | 71.70             | 19.90             | 0.00             | 8.40        | 4.80            | 3.20           |
| December        | 2022-12-16 | 70.80             | 20.50             | 0.00             | 8.70        | 3.30            | 2.50           |
| <b>Average</b>  |            | <b>70.3</b>       | <b>19.4</b>       | <b>0.1</b>       | <b>10.2</b> | <b>3.1</b>      | <b>3.1</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW003S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 63.20             | 28.00             | 0.00             | 8.80        | 8.30            | 8.20           |
| February        | 2022-02-28 | 68.50             | 22.90             | 0.40             | 8.20        | 6.30            | 5.30           |
| March           | 2022-03-22 | 68.40             | 26.20             | 0.00             | 5.40        | 5.50            | 5.10           |
| April           | 2022-04-13 | 64.20             | 30.60             | 0.00             | 5.20        | 3.50            | 3.50           |
| May             | 2022-05-20 | 63.80             | 27.80             | 0.00             | 8.40        | 2.00            | 0.00           |
| June            | 2022-06-27 | 77.00             | 16.80             | 0.10             | 6.10        | 2.40            | 2.40           |
| July            | 2022-07-21 | 70.20             | 22.80             | 0.70             | 6.30        | 3.10            | 2.00           |
| August          | 2022-08-25 | 77.70             | 18.80             | 0.50             | 3.00        | 0.00            | 1.70           |
| September       | 2022-09-15 | 74.90             | 25.10             | 0.00             | 0.00        | 0.00            | 1.10           |
| October         | 2022-10-19 | 57.40             | 22.20             | 0.40             | 20.00       | 4.30            |                |
| November        | 2022-11-23 | 77.50             | 22.50             | 0.00             | 0.00        | 0.00            | 1.20           |
| December        | 2022-12-16 | 79.10             | 20.80             | 0.10             | 0.00        | 0.00            | 2.20           |
| <b>Average</b>  |            | <b>70.2</b>       | <b>23.7</b>       | <b>0.2</b>       | <b>6.0</b>  | <b>3.0</b>      | <b>3.0</b>     |
| <b>VLGW004D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-30 | 0.10              | 5.80              | 15.70            | 78.40       | 0.00            | 0.00           |
| June            | 2022-06-27 | 0.00              | 0.40              | 20.50            | 79.10       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       | 2022-09-23 | 0.10              | 0.40              | 20.50            | 79.00       | 0.00            | 0.00           |
| October         |            |                   |                   |                  |             |                 |                |
| November        | 2022-11-23 | 0.10              | 1.00              | 20.90            | 78.00       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>0.1</b>        | <b>1.9</b>        | <b>19.4</b>      | <b>78.6</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>VLGW004S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-20 | 84.20             | 15.80             | 0.10             |             | 2.20            | 1.80           |
| June            | 2022-06-27 | 72.70             | 15.30             | 0.10             | 11.90       | 0.00            | 0.00           |
| July            | 2022-07-21 | 81.90             | 12.60             | 0.30             | 5.20        | 0.00            | 2.10           |
| August          | 2022-08-18 | 78.80             | 16.30             | 0.00             | 4.90        | 0.00            | 1.20           |
| September       | 2022-09-23 | 70.30             | 19.50             | 0.30             | 9.90        | 4.20            | 4.00           |
| October         | 2022-10-19 | 48.70             | 16.00             | 2.40             | 32.90       | 4.40            | 0.00           |
| November        | 2022-11-23 | 80.60             | 11.50             | 1.80             | 6.10        | 0.00            | 1.20           |
| December        | 2022-12-30 | 72.40             | 17.60             | 0.80             | 9.20        | 0.00            | 1.70           |
| <b>Average</b>  |            | <b>73.7</b>       | <b>15.6</b>       | <b>0.7</b>       | <b>11.4</b> | <b>1.4</b>      | <b>1.5</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW005D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 89.80             | 10.20             | 0.00             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-23 | 89.80             | 10.20             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-13 | 90.20             | 9.70              | 0.00             | 0.10        | 0.00            | 1.80           |
| May             | 2022-05-20 | 14.00             | 1.60              | 17.40            | 67.00       | 0.00            | 0.00           |
| June            | 2022-06-28 | 30.00             | 3.50              | 13.50            | 53.00       | 0.00            |                |
| July            | 2022-07-18 | 90.70             | 9.20              | 0.10             | 0.00        | 0.00            | 0.00           |
| August          | 2022-08-23 | 90.60             | 9.40              | 0.00             | 0.00        | 0.00            | 2.20           |
| September       | 2022-09-29 | 90.80             | 9.00              | 0.10             | 0.10        | 0.00            | 0.00           |
| October         | 2022-10-07 | 91.50             | 8.50              | 0.10             |             |                 |                |
| November        | 2022-11-23 | 86.10             | 13.90             | 0.00             | 0.00        | 0.00            | 0.00           |
| December        | 2022-12-30 | 90.10             | 9.80              | 0.10             | 0.00        | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>77.6</b>       | <b>8.6</b>        | <b>2.8</b>       | <b>12.0</b> | <b>0.0</b>      | <b>0.4</b>     |
| <b>VLGW005S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 81.70             | 18.30             | 0.00             | 0.00        | 5.70            | 4.50           |
| March           | 2022-03-23 | 82.50             | 17.50             | 0.00             | 0.00        | 0.00            | 1.80           |
| April           | 2022-04-13 | 64.70             | 16.70             | 2.00             | 16.60       | 0.00            | 0.00           |
| May             | 2022-05-20 | 68.40             | 18.60             | 0.00             | 13.00       | 0.00            | 0.00           |
| June            | 2022-06-28 | 42.80             | 18.90             | 2.20             | 36.10       | 0.00            | 0.00           |
| July            | 2022-07-18 | 79.10             | 14.50             | 0.30             | 6.10        | 0.00            | 0.00           |
| August          |            |                   |                   |                  |             |                 |                |
| September       | 2022-09-26 | 78.80             | 16.00             | 0.00             | 5.20        | 0.00            | 0.00           |
| October         | 2022-10-07 | 75.00             | 14.30             | 0.30             | 10.40       |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-30 | 54.10             | 23.50             | 0.20             | 22.20       | 3.80            | 1.90           |
| <b>Average</b>  |            | <b>69.7</b>       | <b>17.6</b>       | <b>0.6</b>       | <b>12.2</b> | <b>1.2</b>      | <b>1.0</b>     |
| <b>VLGW006D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 81.40             | 18.60             | 0.00             | 0.00        | 4.90            | 4.90           |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 79.70             | 18.80             | 0.00             | 1.50        | 0.00            | 0.00           |
| April           | 2022-04-19 | 54.50             | 16.70             | 1.60             | 27.20       | 0.00            | 0.00           |
| May             | 2022-05-20 | 55.90             | 17.20             | 1.20             | 25.70       | 1.10            | 0.00           |
| June            | 2022-06-24 | 64.80             | 14.80             | 3.70             | 16.70       | 0.00            | 0.00           |
| July            | 2022-07-12 | 83.10             | 16.70             | 0.20             | 0.00        | 0.00            | 0.00           |
| August          | 2022-08-23 | 82.90             | 17.10             | 0.00             | 0.00        | 0.00            | 0.00           |
| September       | 2022-09-26 | 80.70             | 15.80             | 0.20             | 3.30        | 0.00            | 0.00           |
| October         | 2022-10-27 | 83.70             | 16.20             | 0.10             | 0.00        |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-30 | 60.40             | 19.00             | 0.00             | 20.60       | 3.20            | 2.40           |
| <b>Average</b>  |            | <b>72.7</b>       | <b>17.1</b>       | <b>0.7</b>       | <b>9.5</b>  | <b>1.0</b>      | <b>0.8</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW006S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 82.40             | 17.40             | 0.20             | 0.00        | 2.20            | 2.20           |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 69.10             | 18.40             | 0.00             | 12.50       | 2.70            | 2.70           |
| April           | 2022-04-19 | 72.40             | 18.30             | 0.10             | 9.20        | 0.00            | 1.70           |
| May             | 2022-05-20 | 65.00             | 17.80             | 0.00             | 17.20       | 0.00            | 0.00           |
| June            | 2022-06-24 | 51.60             | 15.60             | 0.50             | 32.30       | 1.10            | 0.00           |
| July            | 2022-07-12 | 82.20             | 15.30             | 0.40             | 2.10        | 0.00            | 0.00           |
| August          | 2022-08-23 | 84.30             | 13.70             | 0.30             | 1.70        | 0.00            | 2.50           |
| September       | 2022-09-26 | 52.10             | 16.30             | 0.10             | 31.50       | 3.00            | 0.00           |
| October         | 2022-10-27 | 84.50             | 15.50             | 0.00             | 0.00        |                 | 2.50           |
| November        | 2022-11-23 | 46.70             | 17.30             | 0.70             | 35.30       | 3.90            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>69.0</b>       | <b>16.6</b>       | <b>0.2</b>       | <b>14.2</b> | <b>1.4</b>      | <b>1.2</b>     |
| <b>VLGW007D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 78.70             | 21.30             | 0.00             | 0.00        | 5.30            | 5.50           |
| February        | 2022-02-28 | 79.70             | 19.10             | 0.80             | 0.40        | 7.50            | 7.40           |
| March           | 2022-03-22 | 74.10             | 17.60             | 1.80             | 6.50        | 5.70            | 5.60           |
| April           | 2022-04-19 | 63.90             | 16.50             | 3.00             | 16.60       | 3.40            | 3.40           |
| May             | 2022-05-19 | 67.10             | 17.50             | 4.50             | 10.90       | 2.70            | 2.00           |
| June            | 2022-06-23 | 68.00             | 17.70             | 1.70             | 12.60       | 0.00            | 0.00           |
| July            | 2022-07-12 | 63.30             | 16.10             | 2.90             | 17.70       | 0.00            | 0.00           |
| August          | 2022-08-18 | 77.40             | 22.60             | 0.00             | 0.00        | 0.00            | 0.00           |
| September       | 2022-09-26 | 74.80             | 22.60             | 0.00             | 2.60        | 0.00            | 2.00           |
| October         | 2022-10-27 | 76.40             | 23.60             | 0.00             | 0.00        |                 |                |
| November        | 2022-11-28 | 76.60             | 23.40             | 0.00             | 0.00        | 0.00            | 0.00           |
| December        | 2022-12-16 | 74.70             | 25.30             | 0.00             | 0.00        | 0.00            | 1.20           |
| <b>Average</b>  |            | <b>72.9</b>       | <b>20.3</b>       | <b>1.2</b>       | <b>5.6</b>  | <b>2.2</b>      | <b>2.5</b>     |
| <b>VLGW007S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 83.60             | 15.50             | 0.00             | 0.90        | 2.90            | 3.70           |
| February        | 2022-02-28 | 79.00             | 19.00             | 0.00             | 2.00        | 7.20            | 6.50           |
| March           | 2022-03-22 | 72.80             | 18.30             | 0.00             | 8.90        | 6.70            | 6.10           |
| April           | 2022-04-19 | 70.40             | 17.50             | 0.30             | 11.80       | 0.00            | 0.00           |
| May             | 2022-05-19 | 42.90             | 11.80             | 7.10             | 38.20       | 0.00            | 0.00           |
| June            | 2022-06-23 | 53.90             | 11.90             | 4.40             | 29.80       | 0.00            | 0.00           |
| July            | 2022-07-12 | 54.60             | 9.10              | 6.60             | 29.70       | 0.00            | 0.00           |
| August          | 2022-08-18 | 78.60             | 16.90             | 0.20             | 4.30        | 0.00            | 1.70           |
| September       | 2022-09-26 | 65.10             | 16.20             | 0.30             | 18.40       | 1.10            | 0.00           |
| October         | 2022-10-27 | 80.80             | 17.90             | 0.30             | 1.00        |                 | 1.20           |
| November        | 2022-11-28 | 81.00             | 19.00             | 0.00             | 0.00        | 0.00            | 2.50           |
| December        | 2022-12-16 | 71.50             | 18.20             | 0.00             | 10.30       | 2.10            | 1.20           |
| <b>Average</b>  |            | <b>69.5</b>       | <b>15.9</b>       | <b>1.6</b>       | <b>12.9</b> | <b>1.8</b>      | <b>1.9</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW008D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 3.10              | 7.80              | 14.90            | 74.20       | 0.00            | 0.00           |
| March           | 2022-03-22 | 2.80              | 9.10              | 12.80            | 75.30       | 0.00            | 0.00           |
| April           | 2022-04-19 | 1.50              | 8.00              | 12.90            | 77.60       | 0.00            | 0.00           |
| May             | 2022-05-20 | 33.60             | 8.50              | 11.00            | 46.90       | 0.00            | 0.00           |
| June            | 2022-06-23 | 73.90             | 15.20             | 0.20             | 10.70       | 0.00            | 3.20           |
| July            | 2022-07-12 | 86.50             | 12.70             | 0.00             | 0.80        | 0.00            | 0.00           |
| August          | 2022-08-11 | 83.70             | 15.10             | 0.40             | 0.80        | 0.00            | 3.00           |
| September       | 2022-09-13 | 35.70             | 18.10             | 0.20             | 46.00       | 3.40            | 0.00           |
| October         | 2022-10-11 | 79.50             | 16.90             | 0.30             | 3.30        |                 |                |
| November        | 2022-11-28 | 74.10             | 17.70             | 0.10             | 8.10        | 0.00            | 0.00           |
| December        | 2022-12-16 | 75.50             | 17.80             | 0.00             | 6.70        | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>50.0</b>       | <b>13.4</b>       | <b>4.8</b>       | <b>31.9</b> | <b>0.3</b>      | <b>0.6</b>     |
| <b>VLGW008S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 75.40             | 24.60             | 0.00             | 0.00        | 1.70            | 2.50           |
| February        | 2022-02-28 | 76.10             | 22.70             | 0.00             | 1.20        | 3.10            | 2.80           |
| March           | 2022-03-22 | 75.70             | 21.70             | 0.10             | 2.50        | 5.10            | 4.70           |
| April           | 2022-04-19 | 75.80             | 21.40             | 0.00             | 2.80        | 5.20            | 5.60           |
| May             | 2022-05-20 | 75.90             | 19.70             | 0.30             | 4.10        | 3.00            | 4.10           |
| June            | 2022-06-23 | 66.20             | 18.00             | 0.20             | 15.60       | 2.00            | 0.00           |
| July            | 2022-07-12 | 78.70             | 18.80             | 0.10             | 2.40        | 0.00            | 0.00           |
| August          | 2022-08-11 | 23.70             | 6.10              | 14.20            | 56.00       | 0.00            | 0.00           |
| September       | 2022-09-13 | 55.80             | 18.70             | 1.70             | 23.80       | 0.00            | 0.00           |
| October         | 2022-10-11 | 70.00             | 20.80             | 0.00             | 9.20        | 0.00            | 1.60           |
| November        | 2022-11-28 | 72.80             | 20.90             | 0.10             | 6.20        | 1.70            | 1.70           |
| December        | 2022-12-16 | 71.90             | 19.70             | 0.00             | 8.40        | 1.70            | 1.20           |
| <b>Average</b>  |            | <b>68.2</b>       | <b>19.4</b>       | <b>1.4</b>       | <b>11.0</b> | <b>2.0</b>      | <b>2.0</b>     |
| <b>VLGW009D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 90.30             | 9.40              | 0.30             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-23 | 90.50             | 9.20              | 0.30             | 0.00        | 0.00            | 2.30           |
| April           | 2022-04-13 | 23.40             | 12.20             | 9.20             | 55.20       | 0.00            | 0.00           |
| May             | 2022-05-20 | 44.30             | 21.00             | 0.00             | 34.70       | 2.30            | 0.00           |
| June            | 2022-06-28 | 86.90             | 10.50             | 0.30             | 2.30        | 0.00            | 2.90           |
| July            | 2022-07-21 | 12.40             | 16.30             | 0.40             | 70.90       | 4.50            | 0.00           |
| August          | 2022-08-18 | 81.50             | 11.90             | 0.00             | 6.60        | 0.00            | 1.20           |
| September       | 2022-09-23 | 9.00              | 16.70             | 1.00             | 73.30       | 2.80            | 0.00           |
| October         | 2022-10-07 | 71.90             | 11.10             | 0.50             | 16.50       |                 |                |
| November        | 2022-11-23 | 90.50             | 9.40              | 0.00             | 0.10        | 0.00            | 0.00           |
| December        | 2022-12-30 | 90.90             | 9.00              | 0.00             | 0.10        | 0.00            | 1.30           |
| <b>Average</b>  |            | <b>62.9</b>       | <b>12.4</b>       | <b>1.1</b>       | <b>23.6</b> | <b>1.0</b>      | <b>0.8</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW009S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 31.40             | 11.80             | 11.40            | 45.40       | 0.00            | 0.00           |
| March           | 2022-03-23 | 1.50              | 0.70              | 20.30            | 77.50       | 0.00            | 0.00           |
| April           | 2022-04-13 | 74.30             | 23.60             | 0.00             | 2.10        | 0.00            | 2.10           |
| May             | 2022-05-20 | 74.70             | 25.30             | 0.00             | 0.00        | 0.00            | 2.00           |
| June            | 2022-06-28 | 3.10              | 0.70              | 20.70            | 75.50       | 0.00            | 0.00           |
| July            | 2022-07-21 | 76.90             | 22.50             | 0.00             | 0.60        | 0.00            | 2.90           |
| August          | 2022-08-18 | 32.90             | 7.50              | 11.40            | 48.20       | 0.00            | 0.00           |
| September       | 2022-09-23 | 75.30             | 24.60             | 0.00             | 0.10        | 0.00            | 1.20           |
| October         | 2022-10-07 | 8.50              | 1.90              | 18.20            | 71.40       |                 |                |
| November        | 2022-11-23 | 75.80             | 24.20             | 0.00             | 0.00        | 0.00            | 1.70           |
| December        | 2022-12-30 | 49.80             | 12.70             | 7.20             | 30.30       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>45.8</b>       | <b>14.1</b>       | <b>8.1</b>       | <b>31.9</b> | <b>0.0</b>      | <b>1.0</b>     |
| <b>VLGW010S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-20 | 56.50             | 24.60             | 0.70             | 18.20       | 0.00            | 0.00           |
| June            | 2022-06-24 | 34.20             | 17.90             | 0.30             | 47.60       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-24 | 58.90             | 39.80             | 0.20             | 1.10        | 0.00            | 2.80           |
| September       |            |                   |                   |                  |             |                 |                |
| October         | 2022-10-07 | 75.00             | 21.90             | 0.10             | 3.00        |                 |                |
| November        | 2022-11-23 | 45.10             | 23.20             | 0.10             | 31.60       | 4.90            | 4.90           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>53.9</b>       | <b>25.5</b>       | <b>0.3</b>       | <b>20.3</b> | <b>1.2</b>      | <b>1.9</b>     |
| <b>VLGW011S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 59.20             | 18.10             | 0.00             | 22.70       | 0.00            | 0.00           |
| February        | 2022-02-28 | 35.20             | 17.20             | 0.50             | 47.10       | 0.00            | 0.00           |
| March           | 2022-03-22 | 33.70             | 16.80             | 0.00             | 49.50       | 0.00            | 0.00           |
| April           | 2022-04-19 | 30.60             | 15.90             | 0.50             | 53.00       | 0.00            | 0.00           |
| May             | 2022-05-20 | 45.70             | 18.30             | 0.10             | 35.90       | 0.00            | 0.00           |
| June            | 2022-06-23 | 66.80             | 26.70             | 0.70             | 5.80        | 0.00            | 0.00           |
| July            | 2022-07-12 | 64.90             | 24.30             | 0.20             | 10.60       | 0.00            | 0.00           |
| August          | 2022-08-10 | 27.50             | 20.80             | 0.60             | 51.10       | 8.20            | 0.00           |
| September       | 2022-09-13 | 63.00             | 30.90             | 0.00             | 6.10        | 2.80            | 4.00           |
| October         | 2022-10-07 | 62.80             | 30.10             | 0.10             | 7.00        | 4.30            | 4.50           |
| November        | 2022-11-22 | 61.90             | 30.80             | 0.00             | 7.30        | 4.40            | 3.70           |
| December        | 2022-12-16 | 44.10             | 27.60             | 0.00             | 28.30       | 6.50            | 1.10           |
| <b>Average</b>  |            | <b>49.6</b>       | <b>23.1</b>       | <b>0.2</b>       | <b>27.0</b> | <b>2.2</b>      | <b>1.1</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW012S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 75.70             | 18.60             | 0.00             | 5.70        | 5.50            | 5.00           |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 76.10             | 20.80             | 0.00             | 3.10        | 5.30            | 4.20           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-30 | 52.40             | 21.60             | 1.80             | 24.20       | 0.00            | 0.00           |
| June            | 2022-06-23 | 71.60             | 28.20             | 0.20             | 0.00        | 0.00            | 2.00           |
| July            | 2022-07-12 | 57.60             | 23.40             | 0.10             | 18.90       | 2.80            | 2.30           |
| August          | 2022-08-10 | 63.70             | 25.50             | 0.10             | 10.70       | 1.10            | 5.00           |
| September       | 2022-09-13 | 69.30             | 30.20             | 0.30             | 0.20        | 0.00            | 1.60           |
| October         | 2022-10-11 | 49.90             | 24.40             | 0.10             | 25.60       | 2.80            | 0.00           |
| November        | 2022-11-22 | 69.20             | 30.80             | 0.00             | 0.00        | 0.00            | 1.10           |
| December        | 2022-12-16 | 65.80             | 26.70             | 0.10             | 7.40        | 1.10            | 2.00           |
| <b>Average</b>  |            | <b>65.1</b>       | <b>25.0</b>       | <b>0.3</b>       | <b>9.6</b>  | <b>1.9</b>      | <b>2.3</b>     |
| <b>VLGW013D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 65.70             | 15.80             | 0.10             | 18.40       | 0.00            | 0.00           |
| April           | 2022-04-19 | 66.30             | 15.30             | 0.00             | 18.40       | 0.00            | 0.00           |
| May             | 2022-05-19 | 69.60             | 14.40             | 1.90             | 14.10       | 0.00            | 0.00           |
| June            | 2022-06-23 | 62.40             | 15.80             | 2.50             | 19.30       | 0.00            | 0.00           |
| July            | 2022-07-12 | 25.00             | 6.10              | 13.40            | 55.50       | 0.00            | 0.00           |
| August          | 2022-08-09 | 72.80             | 19.30             | 0.40             | 7.50        | 0.00            | 0.00           |
| September       | 2022-09-13 | 28.50             | 17.50             | 3.10             | 50.90       | 0.00            | 0.00           |
| October         | 2022-10-11 | 39.40             | 17.20             | 0.50             | 42.90       |                 |                |
| November        | 2022-11-09 | 46.00             | 19.00             | 0.40             | 34.60       | 0.00            | 0.00           |
| December        | 2022-12-16 | 54.70             | 18.30             | 0.40             | 26.60       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>53.0</b>       | <b>15.9</b>       | <b>2.3</b>       | <b>28.8</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>VLGW013S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 63.40             | 16.50             | 0.00             | 20.10       | 0.00            | 0.00           |
| April           | 2022-04-19 | 67.50             | 15.40             | 0.00             | 17.10       | 0.00            | 0.00           |
| May             | 2022-05-19 | 77.00             | 16.50             | 0.00             | 6.50        | 0.00            | 1.70           |
| June            | 2022-06-23 | 70.20             | 16.40             | 0.50             | 12.90       | 8.90            | 2.40           |
| July            | 2022-07-12 | 71.30             | 16.10             | 0.30             | 12.30       | 7.50            | 7.60           |
| August          | 2022-08-09 | 73.50             | 16.20             | 0.10             | 10.20       | 5.80            | 14.40          |
| September       | 2022-09-13 | 34.10             | 15.40             | 3.70             | 46.80       | 0.00            | 0.00           |
| October         | 2022-10-11 | 38.20             | 18.30             | 0.00             | 43.50       | 0.00            | 0.00           |
| November        | 2022-11-09 | 47.30             | 18.60             | 0.40             | 33.70       | 0.00            | 0.00           |
| December        | 2022-12-16 | 59.00             | 18.40             | 0.00             | 22.60       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>60.2</b>       | <b>16.8</b>       | <b>0.5</b>       | <b>22.6</b> | <b>2.2</b>      | <b>2.6</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW014D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | ---               | ---               | ---              | ---         | ---             | <b>0.0</b>     |
| <b>VLGW014S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | ---               | ---               | ---              | ---         | ---             | <b>0.0</b>     |
| <b>VLGW015D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 62.60             | 10.20             | 1.80             | 25.40       | 12.70           | 0.00           |
| February        | 2022-02-28 | 88.20             | 11.80             | 0.00             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-23 | 83.50             | 16.50             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-13 | 66.30             | 11.40             | 1.90             | 20.40       | 3.50            | 3.70           |
| May             | 2022-05-20 | 45.50             | 11.80             | 1.40             | 41.30       | 4.10            | 1.10           |
| June            | 2022-06-27 | 56.40             | 12.60             | 0.40             | 30.60       | 2.80            | 0.00           |
| July            | 2022-07-21 | 82.90             | 13.60             | 0.00             | 3.50        | 0.00            | 2.80           |
| August          | 2022-08-19 | 84.20             | 15.80             | 0.00             | 0.00        | 2.50            | 4.00           |
| September       | 2022-09-15 | 55.20             | 11.70             | 0.00             | 33.10       | 8.10            | 1.10           |
| October         | 2022-10-17 | 72.10             | 14.00             | 0.80             | 13.10       | 1.70            | 1.20           |
| November        | 2022-11-23 | 68.10             | 13.40             | 0.00             | 18.50       | 3.30            | 3.70           |
| December        | 2022-12-16 | 81.50             | 16.60             | 0.00             | 1.90        | 0.00            | 1.80           |
| <b>Average</b>  |            | <b>70.5</b>       | <b>13.3</b>       | <b>0.5</b>       | <b>15.7</b> | <b>3.2</b>      | <b>1.6</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW015S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 63.80             | 22.00             | 0.30             | 13.90       | 0.00            | 0.00           |
| February        | 2022-02-28 | 78.40             | 20.20             | 0.80             | 0.60        | 0.00            | 0.00           |
| March           | 2022-03-23 | 68.50             | 20.50             | 2.50             | 8.50        | 0.00            | 0.00           |
| April           | 2022-04-13 | 27.90             | 12.90             | 12.50            | 46.70       | 0.00            | 0.00           |
| May             | 2022-05-20 | 73.40             | 26.40             | 0.10             | 0.10        | 0.00            | 1.10           |
| June            | 2022-06-27 | 64.30             | 18.30             | 0.00             | 17.40       | 0.00            | 0.00           |
| July            | 2022-07-21 | 64.50             | 21.30             | 0.60             | 13.60       | 0.00            | 0.00           |
| August          | 2022-08-19 | 69.90             | 26.60             | 0.50             | 3.00        | 0.00            | 2.00           |
| September       | 2022-09-15 | 69.10             | 22.00             | 0.00             | 8.90        | 0.00            | 1.10           |
| October         | 2022-10-17 | 66.40             | 22.50             | 0.40             | 10.70       | 2.30            | 2.90           |
| November        | 2022-11-23 | 65.40             | 23.30             | 0.00             | 11.30       | 4.50            | 4.00           |
| December        | 2022-12-16 | 72.60             | 22.50             | 0.20             | 4.70        | 2.10            | 2.10           |
| <b>Average</b>  |            | <b>65.4</b>       | <b>21.5</b>       | <b>1.5</b>       | <b>11.6</b> | <b>0.7</b>      | <b>1.1</b>     |
| <b>VLGW016D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 65.00             | 21.20             | 0.00             | 13.80       | 1.20            | 1.20           |
| February        | 2022-02-28 | 76.90             | 19.10             | 0.00             | 4.00        | 4.80            | 4.80           |
| March           | 2022-03-23 | 80.10             | 19.70             | 0.00             | 0.20        | 4.80            | 4.60           |
| April           | 2022-04-13 | 66.60             | 20.20             | 0.00             | 13.20       | 4.40            | 4.00           |
| May             | 2022-05-20 | 67.50             | 20.60             | 0.00             | 11.90       | 2.10            | 2.40           |
| June            | 2022-06-27 | 68.00             | 18.60             | 0.10             | 13.30       | 4.50            | 1.60           |
| July            | 2022-07-18 | 64.20             | 20.00             | 0.10             | 15.70       | 4.10            | 3.30           |
| August          | 2022-08-19 | 65.40             | 20.70             | 0.00             | 13.90       | 2.90            | 2.60           |
| September       | 2022-09-26 | 64.20             | 19.60             | 0.00             | 16.20       | 1.60            | 1.60           |
| October         | 2022-10-19 | 64.00             | 20.20             | 0.00             | 15.80       | 3.10            | 3.10           |
| November        | 2022-11-23 | 64.00             | 20.90             | 0.00             | 15.10       | 2.70            | 2.90           |
| December        | 2022-12-30 | 53.50             | 21.70             | 0.00             | 24.80       | 7.00            | 2.90           |
| <b>Average</b>  |            | <b>66.6</b>       | <b>20.2</b>       | <b>0.0</b>       | <b>13.2</b> | <b>3.6</b>      | <b>2.9</b>     |
| <b>VLGW016S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 44.50             | 27.80             | 0.00             | 27.70       | 4.50            | 3.60           |
| February        | 2022-02-28 | 75.60             | 24.30             | 0.10             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-23 | 75.20             | 24.80             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-13 | 59.70             | 30.30             | 0.00             | 10.00       | 4.00            | 4.00           |
| May             | 2022-05-20 | 75.00             | 25.00             | 0.00             | 0.00        | 0.00            | 1.20           |
| June            | 2022-06-27 | 73.00             | 24.40             | 0.10             | 2.50        | 0.00            | 1.60           |
| July            | 2022-07-18 | 53.90             | 29.80             | 0.20             | 16.10       | 0.00            | 0.00           |
| August          | 2022-08-19 | 57.80             | 32.10             | 0.00             | 10.10       | 2.90            | 2.90           |
| September       | 2022-09-26 | 49.40             | 31.60             | 0.10             | 18.90       | 0.00            | 0.00           |
| October         | 2022-10-19 | 54.00             | 32.30             | 0.10             | 13.60       |                 | 1.10           |
| November        | 2022-11-23 | 50.70             | 32.90             | 0.20             | 16.20       | 2.20            | 0.00           |
| December        | 2022-12-30 | 75.40             | 24.30             | 0.30             | 0.00        | 0.00            | 1.20           |
| <b>Average</b>  |            | <b>62.0</b>       | <b>28.3</b>       | <b>0.1</b>       | <b>9.6</b>  | <b>1.2</b>      | <b>1.3</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>VLGW017D</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-19 | 71.80             | 28.20             | 0.00             | 0.00       | 1.70            | 2.40           |
| February        |            |                   |                   |                  |            |                 |                |
| March           | 2022-03-22 | 73.10             | 26.90             | 0.00             | 0.00       | 0.00            | 0.00           |
| April           | 2022-04-13 | 51.00             | 24.40             | 0.00             | 24.60      | 1.60            | 0.00           |
| May             | 2022-05-20 | 72.90             | 27.10             | 0.00             | 0.00       | 0.00            | 1.70           |
| June            | 2022-06-29 | 72.90             | 27.00             | 0.10             | 0.00       | 0.00            | 2.30           |
| July            | 2022-07-18 | 73.10             | 26.80             | 0.10             | 0.00       | 0.00            | 1.10           |
| August          | 2022-08-23 | 73.10             | 26.90             | 0.00             | 0.00       | 1.60            | 4.10           |
| September       | 2022-09-26 | 36.40             | 22.10             | 0.60             | 40.90      | 3.10            | 0.00           |
| October         | 2022-10-20 | 72.60             | 27.30             | 0.20             | N/A        |                 | 1.60           |
| November        | 2022-11-23 | 70.40             | 26.70             | 0.30             | 2.60       | 2.90            | 1.10           |
| December        | 2022-12-30 | 71.40             | 28.60             | 0.00             | 0.00       | 0.00            | 1.20           |
| <b>Average</b>  |            | <b>67.2</b>       | <b>26.5</b>       | <b>0.1</b>       | <b>6.8</b> | <b>1.1</b>      | <b>1.4</b>     |
| <b>VLGW017S</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-19 | 71.40             | 28.10             | 0.50             | 0.00       | 2.10            | 2.40           |
| February        | 2022-02-28 | 72.10             | 27.30             | 0.60             | 0.00       | 0.00            | 0.00           |
| March           | 2022-03-22 | 67.90             | 25.30             | 1.60             | 5.20       | 5.80            | 5.80           |
| April           | 2022-04-13 | 73.10             | 26.90             | 0.00             | 0.00       | 4.90            | 6.50           |
| May             | 2022-05-20 | 69.90             | 25.10             | 1.60             | 3.40       | 4.30            | 4.80           |
| June            | 2022-06-29 | 70.70             | 25.80             | 0.20             | 3.30       | 0.00            | 0.00           |
| July            | 2022-07-18 | 72.60             | 27.30             | 0.10             | 0.00       | 0.00            | 0.00           |
| August          | 2022-08-23 | 72.10             | 27.90             | 0.00             | 0.00       | 0.00            | 0.00           |
| September       | 2022-09-29 | 71.60             | 28.20             | 0.10             | 0.10       | 0.00            | 1.60           |
| October         | 2022-10-20 | 71.80             | 28.20             | 0.00             | 0.00       |                 | 1.60           |
| November        | 2022-11-23 | 71.20             | 28.80             | 0.00             | 0.00       | 0.00            | 0.00           |
| December        | 2022-12-30 | 65.10             | 26.80             | 0.00             | 8.10       | 1.10            | 1.60           |
| <b>Average</b>  |            | <b>70.8</b>       | <b>27.1</b>       | <b>0.4</b>       | <b>1.7</b> | <b>1.7</b>      | <b>2.0</b>     |
| <b>VLGW018D</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-19 | 65.70             | 34.30             | 0.00             | 0.00       | 2.30            | 3.30           |
| February        | 2022-02-28 | 67.20             | 32.80             | 0.00             | 0.00       | 5.80            | 5.90           |
| March           | 2022-03-22 | 67.20             | 32.80             | 0.00             | 0.00       | 6.40            | 5.50           |
| April           | 2022-04-19 | 55.40             | 29.60             | 0.10             | 14.90      | 4.30            | 3.80           |
| May             | 2022-05-19 | 50.60             | 29.20             | 0.00             | 20.20      | 3.40            | 1.90           |
| June            | 2022-06-24 | 49.00             | 27.40             | 0.10             | 23.50      | 3.30            | 0.00           |
| July            | 2022-07-26 | 69.30             | 30.70             | 0.00             | 0.00       | 0.00            | 1.60           |
| August          | 2022-08-18 | 68.20             | 31.80             | 0.00             | 0.00       | 0.00            | 0.00           |
| September       | 2022-09-26 | 50.60             | 27.60             | 3.60             | 18.20      | 0.00            | 0.00           |
| October         | 2022-10-20 | 66.00             | 33.70             | 0.30             | 0.00       |                 | 1.10           |
| November        | 2022-11-23 | 56.10             | 30.80             | 0.30             | 12.80      | 2.50            | 1.50           |
| December        | 2022-12-30 | 69.00             | 30.90             | 0.10             | 0.00       | 2.40            | 3.60           |
| <b>Average</b>  |            | <b>61.2</b>       | <b>31.0</b>       | <b>0.4</b>       | <b>7.5</b> | <b>2.8</b>      | <b>2.4</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW018S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 66.70             | 33.30             | 0.00             | 0.00        | 2.90            | 2.60           |
| February        | 2022-02-28 | 70.20             | 29.80             | 0.00             | 0.00        | 6.70            | 6.70           |
| March           | 2022-03-22 | 70.40             | 29.60             | 0.00             | 0.00        | 1.10            | 0.00           |
| April           | 2022-04-19 | 52.90             | 29.40             | 2.60             | 15.10       | 0.00            | 0.00           |
| May             | 2022-05-19 | 24.80             | 14.70             | 12.20            | 48.30       | 0.00            | 0.00           |
| June            | 2022-06-24 | 41.80             | 25.90             | 0.10             | 32.20       | 4.20            | 0.00           |
| July            | 2022-07-26 | 68.30             | 31.60             | 0.10             | 0.00        | 0.00            | 2.80           |
| August          | 2022-08-18 | 70.20             | 28.90             | 0.20             | 0.70        | 0.00            | 2.00           |
| September       | 2022-09-26 | 62.30             | 28.70             | 0.20             | 8.80        | 3.40            | 3.80           |
| October         | 2022-10-20 | 65.40             | 30.20             | 0.00             | 4.40        | 3.10            | 3.90           |
| November        | 2022-11-23 | 42.50             | 28.70             | 0.10             | 28.70       | 2.20            | 0.00           |
| December        | 2022-12-30 | 66.10             | 28.20             | 1.20             | 4.50        | 0.00            | 1.60           |
| <b>Average</b>  |            | <b>58.5</b>       | <b>28.3</b>       | <b>1.4</b>       | <b>11.9</b> | <b>2.0</b>      | <b>2.0</b>     |
| <b>VLGW019D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 64.00             | 33.40             | 1.70             | 0.90        | 2.30            | 2.30           |
| February        | 2022-02-28 | 64.70             | 35.30             | 0.00             | 0.00        | 3.10            | 3.10           |
| March           | 2022-03-22 | 64.30             | 35.70             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-19 | 65.10             | 34.40             | 0.00             | 0.50        | 2.30            | 2.80           |
| May             | 2022-05-19 | 57.10             | 31.90             | 0.30             | 10.70       | 2.20            | 1.60           |
| June            | 2022-06-23 | 60.90             | 32.80             | 0.10             | 6.20        | 0.00            | 1.50           |
| July            | 2022-07-26 | 58.50             | 31.80             | 0.20             | 9.50        | 1.50            | 2.20           |
| August          | 2022-08-18 | 64.20             | 29.10             | 0.00             | 6.70        | 3.50            | 2.90           |
| September       | 2022-09-26 | 59.90             | 33.20             | 0.00             | 6.90        | 2.20            | 1.90           |
| October         | 2022-10-20 | 60.10             | 33.80             | 0.00             | 6.10        | 0.00            |                |
| November        | 2022-11-30 | 65.00             | 35.00             | 0.00             | 0.00        | 0.00            | 0.00           |
| December        | 2022-12-30 | 65.00             | 35.00             | 0.00             | 0.00        | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>62.4</b>       | <b>33.5</b>       | <b>0.2</b>       | <b>4.0</b>  | <b>1.4</b>      | <b>1.7</b>     |
| <b>VLGW019S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 55.60             | 33.20             | 0.00             | 11.20       | 6.20            | 5.70           |
| February        | 2022-02-28 | 63.30             | 33.80             | 0.00             | 2.90        | 1.10            | 1.60           |
| March           | 2022-03-22 | 65.20             | 33.90             | 0.00             | 0.90        | 3.50            | 3.50           |
| April           | 2022-04-19 | 63.00             | 32.30             | 0.10             | 4.60        | 2.00            | 1.60           |
| May             | 2022-05-19 | 59.30             | 32.70             | 0.20             | 7.80        | 3.60            | 3.80           |
| June            | 2022-06-23 | 57.80             | 31.90             | 0.20             | 10.10       | 3.60            | 3.90           |
| July            | 2022-07-26 | 57.90             | 31.50             | 0.80             | 9.80        | 4.00            | 3.50           |
| August          | 2022-08-30 | 59.40             | 31.60             | 1.00             | 8.00        | 5.50            | 5.40           |
| September       | 2022-09-26 | 58.50             | 31.90             | 0.40             | 9.20        | 2.20            | 2.50           |
| October         | 2022-10-20 | 57.90             | 33.00             | 0.30             | 8.80        | 1.10            | 1.10           |
| November        | 2022-11-30 | 64.40             | 35.00             | 0.40             | 0.20        | 2.60            | 4.50           |
| December        | 2022-12-30 | 63.70             | 35.00             | 0.10             | 1.20        | 3.10            | 4.70           |
| <b>Average</b>  |            | <b>60.5</b>       | <b>33.0</b>       | <b>0.3</b>       | <b>6.2</b>  | <b>3.2</b>      | <b>3.5</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW020D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 62.80             | 37.20             | 0.00             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-22 | 62.50             | 37.50             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-19 | 61.50             | 36.00             | 0.00             | 2.50        | 0.00            | 0.00           |
| May             | 2022-05-17 | 56.90             | 33.70             | 1.40             | 8.00        | 0.00            | 0.00           |
| June            | 2022-06-24 | 53.20             | 32.10             | 2.10             | 12.60       | 0.00            | 0.00           |
| July            | 2022-07-25 | 47.60             | 31.70             | 0.10             | 20.60       | 0.00            | 0.00           |
| August          | 2022-08-24 | 55.60             | 32.90             | 1.70             | 9.80        | 0.00            | 0.00           |
| September       | 2022-09-29 | 60.20             | 35.40             | 0.00             | 4.40        | 0.00            | 0.00           |
| October         | 2022-10-14 | 48.60             | 32.40             | 0.00             | 19.00       |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-16 | 63.80             | 36.20             | 0.10             |             | 0.00            | 1.60           |
| <b>Average</b>  |            | <b>57.3</b>       | <b>34.5</b>       | <b>0.5</b>       | <b>8.5</b>  | <b>0.0</b>      | <b>0.2</b>     |
| <b>VLGW020S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 64.60             | 35.40             | 0.00             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-22 | 63.50             | 36.50             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-19 | 64.10             | 35.80             | 0.10             | 0.00        | 0.00            | 1.10           |
| May             | 2022-05-17 | 63.50             | 36.50             | 0.00             | 0.00        | 0.00            | 1.10           |
| June            | 2022-06-24 | 62.20             | 35.00             | 0.40             | 2.40        | 1.10            | 1.50           |
| July            | 2022-07-25 | 41.50             | 28.60             | 0.40             | 29.50       | 1.80            | 0.00           |
| August          | 2022-08-24 | 62.00             | 35.70             | 0.00             | 2.30        | 0.00            | 1.10           |
| September       | 2022-09-29 | 63.60             | 34.90             | 0.40             | 1.10        | 0.00            | 1.10           |
| October         | 2022-10-14 | 44.90             | 31.60             | 0.00             | 23.50       | 1.00            |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-16 | 62.20             | 34.30             | 0.00             | 3.50        | 2.60            | 2.30           |
| <b>Average</b>  |            | <b>59.2</b>       | <b>34.4</b>       | <b>0.1</b>       | <b>6.2</b>  | <b>0.7</b>      | <b>0.9</b>     |
| <b>VLGW021D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 58.50             | 18.00             | 0.00             | 23.50       | 4.80            | 3.60           |
| February        | 2022-02-28 | 60.90             | 18.80             | 0.10             | 20.20       | 24.20           | 24.40          |
| March           | 2022-03-22 | 61.20             | 18.10             | 0.60             | 20.10       | 4.60            | 4.40           |
| April           | 2022-04-20 | 68.30             | 19.50             | 0.10             | 12.10       | 2.40            | 2.40           |
| May             | 2022-05-19 | 72.10             | 19.50             | 0.10             | 8.30        | 3.00            | 3.30           |
| June            | 2022-06-23 | 74.10             | 21.50             | 0.00             | 4.40        | 1.20            | 1.70           |
| July            | 2022-07-26 | 71.50             | 17.50             | 0.30             | 10.70       | 5.40            | 5.10           |
| August          | 2022-08-11 | 72.90             | 17.80             | 0.40             | 8.90        | 3.20            | 4.10           |
| September       | 2022-09-29 | 38.80             | 17.50             | 2.00             | 41.70       | 6.10            | 0.00           |
| October         | 2022-10-14 | 51.00             | 19.30             | 0.00             | 29.70       | 1.60            | 0.00           |
| November        | 2022-11-22 | 72.20             | 24.00             | 0.00             | 3.80        | 0.00            | 1.70           |
| December        | 2022-12-16 | 63.50             | 20.80             | 0.00             | 15.70       | 1.70            | 0.00           |
| <b>Average</b>  |            | <b>63.8</b>       | <b>19.4</b>       | <b>0.3</b>       | <b>16.6</b> | <b>4.9</b>      | <b>4.2</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW021S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 75.40             | 22.40             | 0.20             | 2.00        | 4.80            | 4.60           |
| February        | 2022-02-28 | 79.00             | 21.00             | 0.00             | 0.00        | 3.10            | 3.10           |
| March           | 2022-03-22 | 77.80             | 22.20             | 0.00             | 0.00        | 3.30            | 2.50           |
| April           | 2022-04-20 | 74.50             | 19.30             | 0.00             | 6.20        | 4.40            | 4.00           |
| May             | 2022-05-19 | 62.70             | 20.60             | 0.60             | 16.10       | 2.70            | 0.00           |
| June            | 2022-06-23 | 67.80             | 20.20             | 0.10             | 11.90       | 2.40            | 0.00           |
| July            | 2022-07-26 | 71.90             | 17.60             | 0.30             | 10.20       | 4.60            | 4.20           |
| August          | 2022-08-24 | 54.80             | 21.40             | 0.00             | 23.80       | 0.00            | 0.00           |
| September       | 2022-09-29 | 62.70             | 23.00             | 0.20             | 14.10       | 0.00            | 1.10           |
| October         | 2022-10-14 | 57.40             | 18.80             | 0.10             | 23.70       | 2.30            | 2.00           |
| November        | 2022-11-22 | 71.00             | 17.60             | 0.00             | 11.40       | 3.00            | 2.50           |
| December        | 2022-12-16 | 52.00             | 18.40             | 0.00             | 29.60       | 2.00            | 0.00           |
| <b>Average</b>  |            | <b>67.3</b>       | <b>20.2</b>       | <b>0.1</b>       | <b>12.4</b> | <b>2.7</b>      | <b>2.0</b>     |
| <b>VLGW022D</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-30 | 12.60             | 15.00             | 5.90             | 66.50       | 0.00            | 0.00           |
| June            | 2022-06-29 | 65.90             | 26.80             | 1.40             | 5.90        | 0.00            | 0.00           |
| July            | 2022-07-19 | 70.70             | 29.10             | 0.10             | 0.10        | 0.00            | 0.00           |
| August          | 2022-08-22 | 70.50             | 29.50             | 0.00             | 0.00        | 0.00            | 1.10           |
| September       | 2022-09-23 | 55.00             | 24.30             | 0.10             | 20.60       | 0.00            | 0.00           |
| October         | 2022-10-25 | 70.60             | 29.40             | 0.00             | 0.00        | 0.00            | 1.10           |
| November        | 2022-11-29 | 68.30             | 26.30             | 0.00             | 5.40        | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>59.1</b>       | <b>25.8</b>       | <b>1.1</b>       | <b>14.1</b> | <b>0.0</b>      | <b>0.3</b>     |
| <b>VLGW022S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 49.70             | 20.90             | 0.00             | 29.40       | 0.00            | 0.00           |
| March           | 2022-03-23 | 42.30             | 20.60             | 0.00             | 37.10       | 0.00            | 0.00           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-25 | 60.60             | 21.80             | 0.40             | 17.20       | 0.00            | 0.00           |
| June            | 2022-06-29 | 36.80             | 15.80             | 2.60             | 44.80       | 0.00            | 0.00           |
| July            | 2022-07-19 | 45.00             | 17.80             | 0.50             | 36.70       | 0.00            | 0.00           |
| August          | 2022-08-22 | 43.00             | 18.80             | 0.30             | 37.90       | 0.00            | 0.00           |
| September       | 2022-09-23 | 31.10             | 21.20             | 0.30             | 47.40       | 0.00            | 0.00           |
| October         | 2022-10-25 | 43.30             | 23.30             | 0.00             | 33.40       |                 |                |
| November        | 2022-11-29 | 42.20             | 21.00             | 0.20             | 36.60       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>43.8</b>       | <b>20.1</b>       | <b>0.5</b>       | <b>35.6</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW023D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 63.80             | 11.20             | 3.30             | 21.70       | 4.20            | 4.00           |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-13 | 70.30             | 14.90             | 0.00             | 14.80       | 3.20            | 1.70           |
| May             | 2022-05-20 | 62.00             | 14.10             | 1.90             | 22.00       | 0.00            | 0.00           |
| June            |            |                   |                   |                  |             |                 |                |
| July            | 2022-07-21 | 58.00             | 11.60             | 2.60             | 27.80       | 2.30            | 0.00           |
| August          | 2022-08-19 | 59.10             | 8.70              | 4.70             | 27.50       | 0.00            | 0.00           |
| September       | 2022-09-15 | 68.80             | 10.20             | 2.40             | 18.60       | 0.00            | 0.00           |
| October         | 2022-10-19 | 74.00             | 11.70             | 0.00             | 14.30       |                 | 1.20           |
| November        | 2022-11-23 | 76.00             | 13.30             | 0.00             | 10.70       | 0.00            | 0.00           |
| December        | 2022-12-16 | 86.40             | 10.80             | 0.40             | 2.40        | 0.00            | 1.90           |
| <b>Average</b>  |            | <b>68.7</b>       | <b>11.8</b>       | <b>1.7</b>       | <b>17.8</b> | <b>1.2</b>      | <b>1.0</b>     |
| <b>VLGW023S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 62.50             | 28.50             | 1.90             | 7.10        | 4.00            | 3.80           |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-22 | 69.80             | 28.60             | 0.00             | 1.60        | 4.90            | 4.90           |
| April           | 2022-04-13 | 58.50             | 29.00             | 0.10             | 12.40       | 1.10            | 1.10           |
| May             | 2022-05-20 | 66.50             | 29.00             | 0.00             | 4.50        | 0.00            | 1.10           |
| June            | 2022-06-27 | 67.10             | 24.20             | 0.20             | 8.50        | 1.90            | 1.90           |
| July            | 2022-07-21 | 64.30             | 28.80             | 0.20             | 6.70        | 0.00            | 1.10           |
| August          | 2022-08-19 | 70.00             | 30.00             | 0.00             | 0.00        | 0.00            | 1.60           |
| September       | 2022-09-15 | 51.70             | 31.50             | 0.40             | 16.40       | 5.90            | 1.50           |
| October         | 2022-10-19 | 57.80             | 34.60             | 0.00             | 7.60        | 1.90            | 1.90           |
| November        | 2022-11-23 | 49.90             | 32.20             | 0.20             | 17.70       | 3.80            | 3.80           |
| December        | 2022-12-16 | 61.20             | 31.70             | 0.10             | 7.00        | 2.00            | 2.00           |
| <b>Average</b>  |            | <b>61.8</b>       | <b>29.8</b>       | <b>0.3</b>       | <b>8.1</b>  | <b>2.3</b>      | <b>2.2</b>     |
| <b>VLGW024D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 51.00             | 21.20             | 3.70             | 24.10       | 5.00            | 4.80           |
| February        | 2022-02-28 | 84.30             | 14.60             | 1.10             | 0.00        |                 |                |
| March           | 2022-03-23 | 65.70             | 23.90             | 0.00             | 10.40       | 0.00            | 0.00           |
| April           | 2022-04-13 | 75.10             | 23.50             | 0.20             | 1.20        | 3.50            | 3.90           |
| May             | 2022-05-20 | 67.90             | 24.00             | 0.90             | 7.20        | 7.60            | 7.20           |
| June            | 2022-06-27 | 59.30             | 22.90             | 0.80             | 17.00       | 5.80            | 2.70           |
| July            | 2022-07-18 | 58.80             | 24.40             | 1.30             | 15.50       | 2.80            | 2.50           |
| August          | 2022-08-19 | 67.40             | 25.00             | 0.70             | 6.90        | 3.10            | 4.70           |
| September       | 2022-09-15 | 52.60             | 29.00             | 0.30             | 18.10       | 0.00            | 0.00           |
| October         | 2022-10-17 | 73.20             | 24.20             | 0.70             | 1.90        | 1.60            | 2.90           |
| November        | 2022-11-23 | 57.40             | 27.60             | 0.30             | 14.70       | 2.50            | 1.60           |
| December        | 2022-12-16 | 70.50             | 26.50             | 0.30             | 2.70        | 2.40            | 4.10           |
| <b>Average</b>  |            | <b>65.3</b>       | <b>23.9</b>       | <b>0.9</b>       | <b>10.0</b> | <b>3.1</b>      | <b>3.1</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>VLGW024S</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            |                   |                   |                  |            |                 |                |
| <b>VLGW025D</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             | 2022-05-25 | 69.90             | 30.10             | 0.00             | 0.00       | 0.00            | 0.00           |
| June            | 2022-06-24 | 69.90             | 28.90             | 0.10             | 1.10       | 0.00            | 0.00           |
| July            | 2022-07-25 | 68.10             | 28.70             | 0.10             | 3.10       | 0.00            | 0.00           |
| August          | 2022-08-24 | 69.80             | 30.20             | 0.00             | 0.00       | 0.00            | 0.00           |
| September       | 2022-09-29 | 70.70             | 29.30             | 0.00             | 0.00       | 0.00            | 0.00           |
| October         |            |                   |                   |                  |            |                 |                |
| November        | 2022-11-23 | 69.60             | 30.30             | 0.10             | 0.00       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>69.7</b>       | <b>29.6</b>       | <b>0.1</b>       | <b>0.7</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>VLGW025S</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             | 2022-05-25 | 69.80             | 30.20             | 0.00             | 0.00       | 0.00            | 0.00           |
| June            | 2022-06-24 | 70.40             | 28.60             | 0.10             | 0.90       | 0.00            | 0.00           |
| July            | 2022-07-25 | 68.70             | 28.60             | 0.00             | 2.70       | 0.00            | 0.00           |
| August          | 2022-08-24 | 69.10             | 30.90             | 0.00             | 0.00       | 0.00            | 0.00           |
| September       | 2022-09-29 | 70.10             | 29.90             | 0.00             | 0.00       | 0.00            | 0.00           |
| October         |            |                   |                   |                  |            |                 |                |
| November        | 2022-11-23 | 70.20             | 29.80             | 0.10             |            | 0.00            | 0.00           |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>69.7</b>       | <b>29.7</b>       | <b>0.0</b>       | <b>0.7</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW026D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 63.90             | 36.10             | 0.00             | 0.00        | 3.50            | 3.30           |
| February        | 2022-02-28 | 64.80             | 35.20             | 0.00             | 0.00        | 4.90            | 4.60           |
| March           | 2022-03-22 | 64.60             | 35.40             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-20 | 64.90             | 35.10             | 0.00             | 0.00        | 0.00            | 2.80           |
| May             | 2022-05-17 | 42.50             | 27.90             | 0.20             | 29.40       | 2.50            | 0.00           |
| June            | 2022-06-24 | 61.30             | 30.90             | 0.10             | 7.70        | 0.00            | 1.50           |
| July            | 2022-07-26 | 63.50             | 30.70             | 0.30             | 5.50        | 2.70            | 1.50           |
| August          | 2022-08-24 | 33.20             | 25.60             | 1.40             | 39.80       | 2.60            | 0.00           |
| September       | 2022-09-29 | 65.90             | 34.10             | 0.00             | 0.00        | 0.00            | 0.00           |
| October         | 2022-10-14 | 66.10             | 33.90             | 0.00             | 0.00        | 0.00            | 2.50           |
| November        | 2022-11-29 | 39.90             | 27.30             | 0.30             | 32.50       | 1.90            | 0.00           |
| December        | 2022-12-16 | 65.10             | 34.90             | 0.00             | 0.00        | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>58.0</b>       | <b>32.3</b>       | <b>0.2</b>       | <b>9.6</b>  | <b>1.5</b>      | <b>1.4</b>     |
| <b>VLGW026S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 66.70             | 33.30             | 0.00             | 0.00        | 3.60            | 3.60           |
| February        | 2022-02-28 | 67.20             | 32.80             | 0.00             | 0.00        | 3.60            | 3.40           |
| March           | 2022-03-22 | 67.20             | 32.60             | 0.10             | 0.10        | 0.00            | 0.00           |
| April           | 2022-04-20 | 69.20             | 30.70             | 0.10             | 0.00        | 4.80            | 5.50           |
| May             | 2022-05-17 | 40.70             | 26.60             | 0.60             | 32.10       | 4.10            | 1.50           |
| June            | 2022-06-24 | 61.30             | 27.90             | 0.30             | 10.50       | 2.50            | 2.50           |
| July            | 2022-07-26 | 68.70             | 28.80             | 0.00             | 2.50        | 0.00            | 1.10           |
| August          | 2022-08-24 | 34.20             | 26.50             | 0.50             | 38.80       | 4.90            | 1.50           |
| September       | 2022-09-29 | 68.70             | 30.30             | 0.00             | 1.00        | 1.60            | 3.50           |
| October         | 2022-10-14 | 51.20             | 28.70             | 0.20             | 19.90       | 2.40            | 1.00           |
| November        | 2022-11-29 | 40.40             | 27.40             | 0.00             | 32.20       | 1.10            | 0.00           |
| December        | 2022-12-16 | 67.90             | 32.00             | 0.10             | 0.00        | 0.00            | 1.10           |
| <b>Average</b>  |            | <b>58.6</b>       | <b>29.8</b>       | <b>0.2</b>       | <b>11.4</b> | <b>2.4</b>      | <b>2.1</b>     |
| <b>VLGW027D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 72.10             | 23.90             | 0.00             | 4.00        | 7.20            | 7.40           |
| February        | 2022-02-28 | 75.90             | 24.10             | 0.00             | 0.00        | 8.30            | 8.00           |
| March           | 2022-03-23 | 74.90             | 23.60             | 0.00             | 1.50        | 0.00            | 1.70           |
| April           | 2022-04-22 | 73.60             | 23.30             | 0.50             | 2.60        | 2.90            | 3.40           |
| May             | 2022-05-24 | 76.30             | 23.70             | 0.00             | 0.00        | 1.70            | 3.00           |
| June            | 2022-06-23 | 70.50             | 21.90             | 0.60             | 7.00        | 4.20            | 4.00           |
| July            | 2022-07-19 | 71.20             | 22.10             | 0.50             | 6.20        | 4.50            | 4.20           |
| August          | 2022-08-22 | 69.60             | 22.70             | 0.40             | 7.30        | 2.00            | 4.40           |
| September       | 2022-09-23 | 57.70             | 25.90             | 0.00             | 16.40       | 4.10            | 2.50           |
| October         | 2022-10-25 | 67.20             | 26.60             | 0.00             | 6.20        | 1.60            | 2.00           |
| November        | 2022-11-29 | 67.90             | 26.50             | 0.00             | 5.60        | 0.00            | 1.10           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>70.6</b>       | <b>24.0</b>       | <b>0.2</b>       | <b>5.2</b>  | <b>3.3</b>      | <b>3.8</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW027S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 73.30             | 19.80             | 0.00             | 6.90        | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-22 | 61.40             | 19.30             | 1.20             | 18.10       | 0.00            | 0.00           |
| May             | 2022-05-24 | 73.20             | 22.00             | 0.20             | 4.60        | 0.00            | 0.00           |
| June            | 2022-06-23 | 69.10             | 18.10             | 0.20             | 12.60       | 0.00            | 0.00           |
| July            | 2022-07-19 | 74.00             | 16.70             | 0.60             | 8.70        | 0.00            | 0.00           |
| August          | 2022-08-22 | 39.40             | 19.80             | 0.50             | 40.30       | 0.00            | 0.00           |
| September       | 2022-09-23 | 16.00             | 20.40             | 0.60             | 63.00       | 0.00            | 0.00           |
| October         | 2022-10-25 | 66.90             | 18.60             | 0.50             | 14.00       | 0.00            |                |
| November        | 2022-11-29 | 67.50             | 20.50             | 0.00             | 12.00       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>60.1</b>       | <b>19.5</b>       | <b>0.4</b>       | <b>20.0</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>VLGW028S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 71.70             | 28.20             | 0.00             | 0.10        | 0.00            | 0.00           |
| March           | 2022-03-23 | 71.80             | 28.00             | 0.10             | 0.10        | 0.00            | 0.00           |
| April           | 2022-04-20 | 72.50             | 27.40             | 0.10             | 0.00        | 0.00            | 0.00           |
| May             | 2022-05-24 | 72.30             | 27.70             | 0.00             | 0.00        | 0.00            | 2.00           |
| June            | 2022-06-29 | 41.50             | 25.90             | 0.40             | 32.20       | 2.20            | 0.00           |
| July            | 2022-07-26 | 58.50             | 25.20             | 0.40             | 15.90       | 0.00            | 0.00           |
| August          | 2022-08-24 | 62.90             | 25.20             | 0.40             | 11.50       | 0.00            | 1.90           |
| September       | 2022-09-29 | 29.50             | 24.10             | 0.00             | 46.40       | 1.50            | 0.00           |
| October         | 2022-10-25 | 50.50             | 24.70             | 0.50             | 24.30       |                 |                |
| November        | 2022-11-29 | 64.30             | 26.50             | 0.10             | 9.10        | 0.00            | 0.00           |
| December        | 2022-12-30 | 73.00             | 26.00             | 0.10             | 0.90        | 0.00            | 1.70           |
| <b>Average</b>  |            | <b>60.8</b>       | <b>26.3</b>       | <b>0.2</b>       | <b>12.8</b> | <b>0.4</b>      | <b>0.6</b>     |
| <b>VLGW029D</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 71.90             | 25.60             | 0.10             | 2.40        | 0.00            | 3.00           |
| February        | 2022-02-28 | 69.20             | 25.10             | 0.00             | 5.70        | 1.20            | 2.70           |
| March           | 2022-03-23 | 69.30             | 24.60             | 0.00             | 6.10        | 7.30            | 7.30           |
| April           | 2022-04-22 | 70.60             | 24.20             | 0.00             | 5.20        | 4.00            | 5.00           |
| May             | 2022-05-24 | 74.70             | 24.90             | 0.00             | 0.40        | 5.20            | 6.40           |
| June            | 2022-06-23 | 68.70             | 24.40             | 0.20             | 6.70        | 3.70            | 3.70           |
| July            | 2022-07-19 | 68.40             | 24.40             | 0.20             | 7.00        | 5.40            | 4.40           |
| August          | 2022-08-19 | 68.30             | 25.60             | 0.00             | 6.10        | 3.70            | 3.70           |
| September       | 2022-09-23 | 62.70             | 26.00             | 0.00             | 11.30       | 2.80            | 2.30           |
| October         | 2022-10-25 | 68.10             | 27.30             | 0.00             | 4.60        | 2.30            | 4.90           |
| November        | 2022-11-29 | 60.40             | 26.80             | 0.00             | 12.80       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>68.4</b>       | <b>25.4</b>       | <b>0.0</b>       | <b>6.2</b>  | <b>3.2</b>      | <b>3.9</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW029S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 67.70             | 32.30             | 0.00             | 0.00        | 0.00            | 2.90           |
| February        | 2022-02-28 | 51.30             | 24.10             | 0.00             | 24.60       | 5.00            | 4.30           |
| March           | 2022-03-23 | 43.50             | 22.50             | 0.20             | 33.80       | 0.00            | 0.00           |
| April           | 2022-04-22 | 39.00             | 20.60             | 0.60             | 39.80       | 1.50            | 0.00           |
| May             | 2022-05-24 | 69.00             | 30.60             | 0.40             | 0.00        | 0.00            | 2.00           |
| June            | 2022-06-23 | 45.20             | 22.70             | 0.50             | 31.60       | 1.50            | 0.00           |
| July            | 2022-07-19 | 69.10             | 30.60             | 0.10             | 0.20        | 0.00            | 0.00           |
| August          | 2022-08-19 | 68.90             | 30.90             | 0.20             | 0.00        | 0.00            | 1.60           |
| September       | 2022-09-23 | 31.10             | 22.50             | 0.00             | 46.40       | 2.40            | 0.00           |
| October         |            |                   |                   |                  |             |                 |                |
| November        | 2022-11-29 | 68.40             | 31.30             | 0.30             | 0.00        | 0.00            | 1.60           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>55.3</b>       | <b>26.8</b>       | <b>0.2</b>       | <b>17.6</b> | <b>1.0</b>      | <b>1.2</b>     |
| <b>VLGW030S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-28 | 55.00             | 25.60             | 0.00             | 19.40       | 0.00            | 0.00           |
| March           | 2022-03-23 | 50.60             | 26.10             | 0.10             | 23.20       | 0.00            | 0.00           |
| April           | 2022-04-20 | 57.40             | 24.90             | 0.00             | 17.70       | 0.00            | 0.00           |
| May             | 2022-05-24 | 48.80             | 28.10             | 0.00             | 23.10       | 0.00            | 0.00           |
| June            | 2022-06-29 | 36.80             | 25.90             | 0.40             | 36.90       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-24 | 40.30             | 24.20             | 2.50             | 33.00       | 0.00            | 0.00           |
| September       | 2022-09-29 | 30.80             | 25.10             | 0.20             | 43.90       | 0.00            | 0.00           |
| October         | 2022-10-25 | 43.00             | 28.70             | 0.00             | 28.30       | 0.00            |                |
| November        | 2022-11-29 | 37.60             | 26.90             | 0.10             | 35.40       | 0.00            | 0.00           |
| December        | 2022-12-30 | 49.10             | 25.40             | 0.00             | 25.50       | 0.00            | 1.10           |
| <b>Average</b>  |            | <b>44.9</b>       | <b>26.1</b>       | <b>0.3</b>       | <b>28.6</b> | <b>0.0</b>      | <b>0.1</b>     |
| <b>VLGW031S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-24 | 62.90             | 23.30             | 0.10             | 13.70       | 0.00            | 0.00           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-24 | 63.90             | 21.90             | 0.20             | 14.00       | 0.00            | 0.00           |
| June            | 2022-06-27 | 69.20             | 22.00             | 0.30             | 8.50        | 0.00            | 0.00           |
| July            | 2022-07-25 | 66.40             | 22.00             | 0.70             | 10.90       | 0.00            | 0.00           |
| August          | 2022-08-22 | 63.80             | 22.40             | 1.40             | 12.40       | 0.00            | 0.00           |
| September       | 2022-09-22 | 35.70             | 21.60             | 0.80             | 41.90       | 3.60            | 0.00           |
| October         | 2022-10-19 | 42.60             | 22.90             | 0.70             | 33.80       |                 |                |
| November        | 2022-11-22 | 54.00             | 25.20             | 0.10             | 20.70       | 17.10           | 16.90          |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>57.3</b>       | <b>22.7</b>       | <b>0.5</b>       | <b>19.5</b> | <b>3.0</b>      | <b>2.4</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW032S</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 66.40             | 33.60             | 0.00             | 0.00        | 6.50            | 6.50           |
| February        | 2022-02-28 | 67.20             | 32.80             | 0.00             | 0.00        | 1.60            | 2.60           |
| March           | 2022-03-23 | 67.90             | 28.80             | 0.10             | 3.20        | 2.60            | 2.30           |
| April           | 2022-04-20 | 70.40             | 29.40             | 0.00             | 0.20        | 4.50            | 4.80           |
| May             | 2022-05-24 | 61.10             | 27.60             | 0.00             | 11.30       | 4.30            | 3.70           |
| June            | 2022-06-29 | 50.60             | 25.90             | 0.70             | 22.80       | 3.90            | 0.00           |
| July            | 2022-07-26 | 63.90             | 28.00             | 0.30             | 7.80        | 0.00            | 1.90           |
| August          | 2022-08-30 | 56.40             | 27.30             | 0.30             | 16.00       | 3.20            | 1.90           |
| September       | 2022-09-29 | 54.40             | 26.80             | 0.20             | 18.60       | 0.00            | 0.00           |
| October         | 2022-10-25 | 63.90             | 29.80             | 0.10             | 6.20        |                 | 1.60           |
| November        | 2022-11-29 | 54.80             | 28.20             | 0.20             | 16.80       | 0.00            | 0.00           |
| December        | 2022-12-30 | 67.10             | 32.90             | 0.00             | 0.00        | 0.00            | 1.10           |
| <b>Average</b>  |            | <b>62.0</b>       | <b>29.3</b>       | <b>0.2</b>       | <b>8.6</b>  | <b>2.4</b>      | <b>2.2</b>     |
| <b>VLGW033S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-24 | 53.60             | 30.10             | 0.00             | 16.30       | 0.00            | 0.00           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-24 | 59.40             | 29.80             | 0.00             | 10.80       | 0.00            | 1.10           |
| June            | 2022-06-27 | 46.50             | 32.40             | 0.10             | 21.00       | 0.00            | 0.00           |
| July            | 2022-07-25 | 43.40             | 29.80             | 0.90             | 25.90       | 0.00            | 0.00           |
| August          | 2022-08-22 | 46.40             | 33.10             | 0.90             | 19.60       | 0.00            | 0.00           |
| September       | 2022-09-22 | 42.90             | 32.70             | 0.20             | 24.20       | 0.00            | 0.00           |
| October         | 2022-10-19 | 46.90             | 33.60             | 0.00             | 19.50       |                 |                |
| November        | 2022-11-28 | 39.90             | 33.50             | 0.10             | 26.50       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>47.4</b>       | <b>31.9</b>       | <b>0.3</b>       | <b>20.5</b> | <b>0.0</b>      | <b>0.2</b>     |
| <b>VLGW034S</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-24 | 43.30             | 30.40             | 0.00             | 26.30       | 0.00            | 0.00           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-24 | 44.10             | 30.20             | 0.00             | 25.70       | 0.00            | 0.00           |
| June            | 2022-06-27 | 41.50             | 27.70             | 0.20             | 30.60       | 0.00            | 0.00           |
| July            | 2022-07-25 | 42.80             | 29.10             | 0.30             | 27.80       | 0.00            | 0.00           |
| August          | 2022-08-22 | 42.70             | 30.60             | 0.00             | 26.70       | 0.00            | 0.00           |
| September       | 2022-09-22 | 42.80             | 31.60             | 0.60             | 25.00       | 0.00            | 0.00           |
| October         | 2022-10-18 | 42.10             | 31.80             | 0.20             | 25.90       |                 |                |
| November        | 2022-11-28 | 27.00             | 28.90             | 0.10             | 44.00       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>40.8</b>       | <b>30.0</b>       | <b>0.2</b>       | <b>29.0</b> | <b>0.0</b>      | <b>0.0</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>VLGW042S</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-19 | 72.40             | 20.40             | 0.00             | 7.20       | 7.90            | 10.50          |
| February        | 2022-02-28 | 70.90             | 20.50             | 0.10             | 8.50       | 3.00            | 3.20           |
| March           |            |                   |                   |                  |            |                 |                |
| April           | 2022-04-13 | 69.40             | 19.20             | 0.70             | 10.70      | 4.10            | 4.20           |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>70.9</b>       | <b>20.0</b>       | <b>0.3</b>       | <b>8.8</b> | <b>5.0</b>      | <b>6.0</b>     |
| <b>VLGW043S</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        | 2022-02-28 | 65.60             | 34.10             | 0.30             | 0.00       | 0.00            | 0.00           |
| March           | 2022-03-22 | 64.90             | 34.90             | 0.20             | 0.00       | 0.00            | 0.00           |
| April           | 2022-04-19 | 64.00             | 33.70             | 0.00             | 2.30       | 0.00            | 1.60           |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>64.8</b>       | <b>34.2</b>       | <b>0.2</b>       | <b>0.8</b> | <b>0.0</b>      | <b>0.5</b>     |
| <b>VLGW047S</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        |            |                   |                   |                  |            |                 |                |
| March           |            |                   |                   |                  |            |                 |                |
| April           |            |                   |                   |                  |            |                 |                |
| May             |            |                   |                   |                  |            |                 |                |
| June            |            |                   |                   |                  |            |                 |                |
| July            |            |                   |                   |                  |            |                 |                |
| August          |            |                   |                   |                  |            |                 |                |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            |                   |                   |                  |            |                 |                |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW0049</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 69.30             | 30.70             | 0.00             | 0.00        | 0.00            | 1.20           |
| February        | 2022-02-28 | 17.80             | 9.10              | 15.80            | 57.30       | 1.80            | 0.00           |
| March           | 2022-03-22 | 70.00             | 29.90             | 0.20             |             | 0.00            | 3.50           |
| April           | 2022-04-21 | 31.30             | 14.30             | 11.40            | 43.00       | 0.00            | 0.00           |
| May             | 2022-05-25 | 69.30             | 30.70             | 0.00             | 0.00        | 0.00            | 1.70           |
| June            | 2022-06-28 | 13.90             | 6.30              | 17.30            | 62.50       | 0.00            | 0.00           |
| July            | 2022-07-19 | 69.90             | 30.00             | 0.20             |             | 0.00            | 0.00           |
| August          | 2022-08-24 | 69.40             | 30.60             | 0.00             | 0.00        | 0.00            | 1.10           |
| September       | 2022-09-15 | 68.90             | 30.90             | 0.10             | 0.10        | 0.00            | 0.00           |
| October         | 2022-10-07 | 69.00             | 30.10             | 0.00             | 0.90        |                 |                |
| November        | 2022-11-28 | 70.30             | 29.50             | 0.20             | 0.00        | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>56.3</b>       | <b>24.7</b>       | <b>4.1</b>       | <b>18.2</b> | <b>0.2</b>      | <b>0.8</b>     |
| <b>VLGW0050</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 73.40             | 26.50             | 0.10             | 0.00        | 1.20            | 1.70           |
| February        | 2022-02-28 | 39.30             | 26.90             | 0.80             | 33.00       | 2.20            | 0.00           |
| March           | 2022-03-23 | 74.20             | 25.80             | 0.00             | 0.00        | 0.00            | 0.00           |
| April           | 2022-04-20 | 73.80             | 25.70             | 0.50             | 0.00        | 0.00            | 1.70           |
| May             | 2022-05-26 | 55.50             | 27.80             | 0.20             | 16.50       | 1.10            | 0.00           |
| June            | 2022-06-29 | 51.10             | 28.60             | 0.40             | 19.90       | 0.00            | 0.00           |
| July            | 2022-07-19 | 50.80             | 27.70             | 0.10             | 21.40       | 0.00            | 0.00           |
| August          | 2022-08-19 | 55.50             | 28.60             | 0.00             | 15.90       | 0.00            | 3.50           |
| September       | 2022-09-23 | 35.10             | 29.40             | 0.00             | 35.50       | 7.40            | 0.00           |
| October         | 2022-10-25 | 74.10             | 25.90             | 0.00             | 0.00        | 0.00            | 1.20           |
| November        | 2022-11-29 | 40.90             | 26.30             | 0.70             | 32.10       | 0.00            | 0.00           |
| December        | 2022-12-15 | 75.10             | 24.80             | 0.10             | 0.00        | 0.00            | 1.20           |
| <b>Average</b>  |            | <b>58.2</b>       | <b>27.0</b>       | <b>0.2</b>       | <b>14.5</b> | <b>1.0</b>      | <b>0.8</b>     |
| <b>VLGW0051</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 56.60             | 32.20             | 0.00             | 11.20       | 10.50           | 10.20          |
| February        | 2022-02-28 | 63.00             | 32.50             | 0.00             | 4.50        | 10.80           | 10.70          |
| March           | 2022-03-23 | 63.00             | 32.00             | 0.00             | 5.00        | 8.00            | 8.10           |
| April           | 2022-04-20 | 67.10             | 32.60             | 0.00             | 0.30        | 9.30            | 10.60          |
| May             | 2022-05-26 | 67.40             | 32.50             | 0.00             | 0.10        | 7.10            | 8.40           |
| June            | 2022-06-29 | 61.60             | 32.10             | 0.10             | 6.20        | 9.20            | 9.10           |
| July            | 2022-07-19 | 50.90             | 30.90             | 0.10             | 18.10       | 15.50           | 15.80          |
| August          | 2022-08-19 | 53.60             | 32.80             | 0.00             | 13.60       | 14.90           | 15.20          |
| September       | 2022-09-23 | 51.20             | 32.50             | 0.00             | 16.30       | 18.00           | 17.80          |
| October         | 2022-10-25 | 53.60             | 33.40             | 0.00             | 13.00       | 17.10           | 16.90          |
| November        | 2022-11-29 | 46.40             | 31.90             | 0.00             | 21.70       | 15.10           | 9.00           |
| December        | 2022-12-15 | 55.30             | 31.90             | 0.00             | 12.80       | 7.30            | 7.40           |
| <b>Average</b>  |            | <b>57.5</b>       | <b>32.3</b>       | <b>0.0</b>       | <b>10.2</b> | <b>11.9</b>     | <b>11.6</b>    |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW0052</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 43.30             | 32.90             | 0.00             | 23.80       | 1.10            | 0.00           |
| February        | 2022-02-28 | 55.90             | 31.00             | 0.00             | 13.10       | 0.00            | 0.00           |
| March           | 2022-03-22 | 52.90             | 31.60             | 0.00             | 15.50       | 0.00            | 0.00           |
| April           | 2022-04-21 | 55.40             | 31.00             | 0.00             | 13.60       | 0.00            | 0.00           |
| May             | 2022-05-25 | 54.50             | 31.50             | 0.00             | 14.00       | 0.00            | 0.00           |
| June            | 2022-06-28 | 53.00             | 30.10             | 0.30             | 16.60       | 0.00            | 0.00           |
| July            | 2022-07-19 | 61.00             | 33.20             | 0.00             | 5.80        | 0.00            | 0.00           |
| August          | 2022-08-24 | 59.40             | 34.90             | 0.00             | 5.70        | 0.00            | 0.00           |
| September       | 2022-09-15 | 61.00             | 35.40             | 0.00             | 3.60        | 0.00            | 0.00           |
| October         | 2022-10-07 | 56.00             | 34.40             | 0.00             | 9.60        |                 | 1.00           |
| November        | 2022-11-28 | 52.80             | 35.50             | 0.00             | 11.70       | 1.90            | 1.90           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>55.0</b>       | <b>32.9</b>       | <b>0.0</b>       | <b>12.1</b> | <b>0.3</b>      | <b>0.3</b>     |
| <b>VLGW0053</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-19 | 50.60             | 33.70             | 0.00             | 15.70       | 0.00            | 0.00           |
| February        | 2022-02-28 | 47.30             | 31.90             | 0.00             | 20.80       | 0.00            | 0.00           |
| March           | 2022-03-22 | 47.40             | 32.60             | 0.00             | 20.00       | 0.00            | 0.00           |
| April           | 2022-04-21 | 48.40             | 32.80             | 0.00             | 18.80       | 0.00            | 0.00           |
| May             | 2022-05-25 | 37.50             | 29.30             | 0.00             | 33.20       | 0.00            | 0.00           |
| June            | 2022-06-28 | 40.80             | 28.90             | 1.50             | 28.80       | 0.00            | 0.00           |
| July            | 2022-07-19 | 44.70             | 30.80             | 0.10             | 24.40       | 0.00            | 0.00           |
| August          | 2022-08-24 | 42.80             | 30.00             | 1.30             | 25.90       | 0.00            | 0.00           |
| September       | 2022-09-15 | 47.30             | 31.80             | 0.90             | 20.00       | 0.00            | 0.00           |
| October         | 2022-10-07 | 46.30             | 31.10             | 0.40             | 22.20       | 0.00            |                |
| November        | 2022-11-28 | 49.20             | 33.00             | 0.00             | 17.80       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>45.7</b>       | <b>31.4</b>       | <b>0.4</b>       | <b>22.5</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>VLGW0054</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 65.20             | 27.10             | 0.00             | 7.70        | 2.10            | 2.10           |
| February        | 2022-02-28 | 45.20             | 29.90             | 0.00             | 24.90       | 4.30            | 0.00           |
| March           | 2022-03-23 | 50.40             | 29.30             | 0.00             | 20.30       | 0.00            | 0.00           |
| April           | 2022-04-20 | 51.60             | 29.10             | 0.00             | 19.30       | 0.00            | 0.00           |
| May             | 2022-05-26 | 55.70             | 29.00             | 0.00             | 15.30       | 0.00            | 1.10           |
| June            | 2022-06-29 | 44.50             | 29.80             | 0.40             | 25.30       | 0.00            | 0.00           |
| July            | 2022-07-25 | 42.80             | 29.20             | 0.80             | 27.20       | 1.00            | 0.00           |
| August          | 2022-08-19 | 49.80             | 31.10             | 0.00             | 19.10       | 1.00            | 1.80           |
| September       | 2022-09-29 | 42.70             | 29.20             | 0.40             | 27.70       | 0.00            | 0.00           |
| October         | 2022-10-27 | 44.20             | 31.20             | 0.00             | 24.60       | 1.00            |                |
| November        | 2022-11-29 | 41.30             | 30.40             | 0.00             | 28.30       | 1.10            | 0.00           |
| December        | 2022-12-15 | 37.30             | 29.10             | 0.00             | 33.60       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>47.6</b>       | <b>29.5</b>       | <b>0.1</b>       | <b>22.8</b> | <b>0.9</b>      | <b>0.5</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW0055</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 63.60             | 36.40             | 0.00             | 0.00        | 0.00            | 2.00           |
| February        | 2022-02-28 | 64.00             | 36.00             | 0.00             | 0.00        | 0.00            | 0.00           |
| March           | 2022-03-23 | 64.00             | 35.80             | 0.20             | 0.00        | 0.00            | 1.10           |
| April           | 2022-04-20 | 63.50             | 36.50             | 0.00             | 0.00        | 0.00            | 0.00           |
| May             | 2022-05-26 | 64.10             | 35.40             | 0.40             | 0.10        | 0.00            | 0.00           |
| June            | 2022-06-29 | 54.50             | 32.60             | 0.00             | 12.90       | 1.10            | 1.50           |
| July            | 2022-07-25 | 55.70             | 33.00             | 0.10             | 11.20       | 2.70            | 1.90           |
| August          | 2022-08-19 | 58.90             | 33.80             | 0.00             | 7.30        | 2.90            | 3.30           |
| September       | 2022-09-29 | 51.80             | 32.40             | 0.00             | 15.80       | 2.50            | 1.10           |
| October         | 2022-10-27 | 62.80             | 36.10             | 0.00             | 1.10        | 1.60            | 2.50           |
| November        | 2022-11-29 | 41.90             | 31.80             | 0.10             | 26.20       | 1.10            | 0.00           |
| December        | 2022-12-13 | 64.30             | 35.70             | 0.00             | 0.00        | 0.00            | 1.10           |
| <b>Average</b>  |            | <b>59.1</b>       | <b>34.6</b>       | <b>0.1</b>       | <b>6.2</b>  | <b>1.0</b>      | <b>1.2</b>     |
| <b>VLGW0056</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 61.90             | 33.20             | 0.00             | 4.90        | 2.90            | 2.60           |
| February        | 2022-02-28 | 62.20             | 33.70             | 0.00             | 4.10        | 0.00            | 0.00           |
| March           | 2022-03-23 | 60.00             | 32.90             | 0.00             | 7.10        | 0.00            | 0.00           |
| April           | 2022-04-20 | 60.00             | 32.70             | 0.00             | 7.30        | 0.00            | 0.00           |
| May             | 2022-05-26 | 60.30             | 32.30             | 0.10             | 7.30        | 0.00            | 0.00           |
| June            | 2022-06-29 | 60.00             | 31.90             | 0.10             | 8.00        | 0.00            | 0.00           |
| July            | 2022-07-25 | 57.80             | 31.10             | 0.10             | 11.00       | 0.00            | 0.00           |
| August          | 2022-08-19 | 58.60             | 31.80             | 0.00             | 9.60        | 0.00            | 2.50           |
| September       | 2022-09-29 | 49.40             | 30.10             | 0.00             | 20.50       | 0.00            | 0.00           |
| October         | 2022-10-27 | 63.20             | 34.60             | 0.00             | 2.20        |                 | 1.10           |
| November        | 2022-11-29 | 29.90             | 27.60             | 0.00             | 42.50       | 1.90            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>56.7</b>       | <b>32.0</b>       | <b>0.0</b>       | <b>11.3</b> | <b>0.5</b>      | <b>0.6</b>     |
| <b>VLGW0057</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-20 | 29.30             | 24.10             | 2.10             | 44.50       | 0.00            | 0.00           |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>29.3</b>       | <b>24.1</b>       | <b>2.1</b>       | <b>44.5</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>VLGW0058</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |
| <b>VLGW0059</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-23 | 60.00             | 39.20             | 0.00             | 0.80        | 0.00            | 0.00           |
| April           | 2022-04-14 | 50.50             | 37.60             | 0.00             | 11.90       | 3.30            | 1.90           |
| May             | 2022-05-18 | 51.50             | 37.70             | 0.00             | 10.80       | 0.00            | 0.00           |
| June            | 2022-06-29 | 43.70             | 35.00             | 0.20             | 21.10       | 0.00            | 0.00           |
| July            | 2022-07-22 | 58.20             | 38.00             | 1.10             | 2.70        | 0.00            | 1.50           |
| August          | 2022-08-18 | 59.70             | 40.00             | 0.00             | 0.30        | 1.00            | 4.10           |
| September       | 2022-09-22 | 59.80             | 40.00             | 0.20             | 0.00        | 3.80            | 6.60           |
| October         | 2022-10-07 | 52.40             | 38.40             | 0.00             | 9.20        | 7.80            | 7.20           |
| November        | 2022-11-18 | 54.50             | 38.00             | 0.70             | 6.80        | 4.60            | 5.00           |
| December        | 2022-12-15 | 57.00             | 39.70             | 0.10             | 3.20        | 4.20            | 4.50           |
| <b>Average</b>  |            | <b>54.7</b>       | <b>38.4</b>       | <b>0.2</b>       | <b>6.7</b>  | <b>2.5</b>      | <b>3.1</b>     |
| <b>VLGW0060</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-20 | 62.50             | 37.50             | 0.00             | 0.00        | 0.00            | 1.90           |
| May             | 2022-05-24 | 48.50             | 32.20             | 0.30             | 19.00       | 1.50            | 0.00           |
| June            | 2022-06-29 | 43.70             | 31.10             | 0.70             | 24.50       | 1.00            | 0.00           |
| July            | 2022-07-22 | 65.10             | 34.70             | 0.20             | 0.00        | 0.00            | 1.90           |
| August          | 2022-08-24 | 49.00             | 33.50             | 0.00             | 17.50       | 0.00            | 0.00           |
| September       | 2022-09-22 | 65.90             | 34.00             | 0.10             | 0.00        | 0.00            | 2.20           |
| October         | 2022-10-11 | 30.60             | 29.20             | 0.20             | 40.00       | 5.60            | 0.00           |
| November        | 2022-11-18 | 66.10             | 33.90             | 0.00             | 0.00        | 0.00            | 1.10           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>53.9</b>       | <b>33.3</b>       | <b>0.2</b>       | <b>12.6</b> | <b>1.0</b>      | <b>0.9</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW049B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 60.10             | 39.40             | 0.40             | 0.10        | 2.90            | 3.90           |
| February        | 2022-02-15 | 57.20             | 39.30             | 0.00             | 3.50        | 14.00           | 17.30          |
| March           | 2022-03-17 | 59.30             | 40.60             | 0.10             | 0.00        | 6.20            | 9.40           |
| April           | 2022-04-19 | 50.00             | 37.00             | 0.40             | 12.60       | 5.80            | 4.90           |
| May             | 2022-05-17 | 55.20             | 38.10             | 0.40             | 6.30        | 3.50            | 2.10           |
| June            | 2022-06-30 | 54.70             | 38.10             | 0.20             | 7.00        | 7.70            | 7.00           |
| July            | 2022-07-22 | 53.50             | 38.00             | 0.30             | 8.20        | 11.10           | 10.40          |
| August          | 2022-08-24 | 52.60             | 37.70             | 0.00             | 9.70        | 6.40            | 6.80           |
| September       | 2022-09-16 | 52.60             | 37.30             | 0.40             | 9.70        | 12.30           | 12.10          |
| October         | 2022-10-20 | 54.60             | 38.80             | 0.00             | 6.60        | 4.90            | 4.80           |
| November        | 2022-11-22 | 59.10             | 40.90             | 0.00             | 0.00        | 1.80            | 5.50           |
| December        | 2022-12-15 | 46.60             | 34.80             | 1.20             | 17.40       | 10.80           | 6.00           |
| <b>Average</b>  |            | <b>54.6</b>       | <b>38.3</b>       | <b>0.3</b>       | <b>6.8</b>  | <b>7.3</b>      | <b>7.5</b>     |
| <b>HLGW040B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 53.50             | 35.70             | 0.40             | 10.40       | 2.10            | 5.80           |
| February        | 2022-02-15 | 61.80             | 38.20             | 0.00             | 0.00        | 6.50            | 8.60           |
| March           | 2022-03-17 | 61.30             | 38.60             | 0.10             | 0.00        | 6.90            | 11.30          |
| April           | 2022-04-19 | 47.90             | 35.20             | 0.60             | 16.30       | 8.60            | 6.00           |
| May             | 2022-05-17 | 56.20             | 38.00             | 0.20             | 5.60        | 6.30            | 6.00           |
| June            | 2022-06-28 | 59.30             | 38.80             | 0.30             | 1.60        | 1.90            | 2.20           |
| July            | 2022-07-22 | 54.30             | 39.00             | 0.20             | 6.50        | 6.20            | 6.00           |
| August          | 2022-08-23 | 43.90             | 35.30             | 0.10             | 20.70       | 1.80            | 0.00           |
| September       | 2022-09-16 | 52.10             | 38.40             | 0.00             | 9.50        | 4.10            | 3.60           |
| October         | 2022-10-20 | 53.70             | 38.50             | 0.00             | 7.80        | 4.10            | 3.80           |
| November        | 2022-11-21 | 60.50             | 39.50             | 0.00             | 0.00        | 1.90            | 3.20           |
| December        | 2022-12-15 | 61.10             | 38.70             | 0.20             | 0.00        | 2.30            | 4.50           |
| <b>Average</b>  |            | <b>55.5</b>       | <b>37.8</b>       | <b>0.2</b>       | <b>6.5</b>  | <b>4.4</b>      | <b>5.1</b>     |
| <b>HLGW045B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-19 | 17.10             | 12.50             | 1.50             | 68.90       | 0.00            | 0.00           |
| May             | 2022-05-17 | 28.70             | 27.90             | 0.20             | 43.20       | 0.00            | 0.00           |
| June            | 2022-06-27 | 27.80             | 28.30             | 0.50             | 43.40       | 0.00            | 0.00           |
| July            | 2022-07-22 | 12.10             | 17.90             | 7.80             | 62.20       | 0.00            | 0.00           |
| August          | 2022-08-23 | 35.00             | 32.90             | 0.00             | 32.10       | 0.00            | 3.00           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>24.1</b>       | <b>23.9</b>       | <b>2.0</b>       | <b>50.0</b> | <b>0.0</b>      | <b>0.6</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW046B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-17 | 1.50              | 12.80             | 17.10            | 68.60       | 0.00            | 0.00           |
| April           | 2022-04-19 | 0.10              | 0.40              | 21.60            | 77.90       | 0.00            | 0.00           |
| May             | 2022-05-30 | 10.80             | 14.80             | 14.10            | 60.30       | 0.00            | 0.00           |
| June            | 2022-06-27 | 1.20              | 3.10              | 18.60            | 77.10       | 0.00            | 0.00           |
| July            | 2022-07-22 | 0.30              | 0.30              | 21.30            | 78.10       | 0.00            | 0.00           |
| August          | 2022-08-23 | 35.80             | 33.70             | 0.20             | 30.30       | 0.00            | 2.50           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>8.3</b>        | <b>10.9</b>       | <b>15.5</b>      | <b>65.4</b> | <b>0.0</b>      | <b>0.4</b>     |
| <b>HLGW047B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-17 | 1.40              | 9.50              | 17.50            | 71.60       | 0.00            | 0.00           |
| April           | 2022-04-19 | 17.30             | 22.50             | 11.40            | 48.80       | 0.00            | 0.00           |
| May             | 2022-05-17 | 12.10             | 17.30             | 12.00            | 58.60       | 0.00            | 0.00           |
| June            | 2022-06-27 | 20.10             | 21.20             | 6.90             | 51.80       | 0.00            | 0.00           |
| July            | 2022-07-22 | 44.80             | 35.60             | 1.00             | 18.60       | 0.00            | 0.00           |
| August          | 2022-08-23 | 45.80             | 37.60             | 0.10             | 16.50       | 0.00            | 0.00           |
| September       |            |                   |                   |                  |             |                 |                |
| October         | 2022-10-20 | 43.70             | 36.30             | 0.00             | 20.00       | 0.00            |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        | 2022-12-15 | 36.60             | 29.80             | 3.30             | 30.30       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>27.7</b>       | <b>26.2</b>       | <b>6.5</b>       | <b>39.5</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW048B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           | 2022-03-17 | 23.90             | 26.60             | 0.30             | 49.20       | 0.00            | 0.00           |
| April           | 2022-04-19 | 31.30             | 29.70             | 0.00             | 39.00       | 0.00            | 0.00           |
| May             | 2022-05-17 | 58.90             | 38.80             | 0.00             | 2.30        | 0.00            | 2.50           |
| June            | 2022-06-27 | 23.10             | 26.80             | 0.20             | 49.90       | 0.00            | 0.00           |
| July            | 2022-07-22 | 27.50             | 29.50             | 0.10             | 42.90       | 0.00            | 0.00           |
| August          | 2022-08-24 | 33.30             | 31.70             | 0.00             | 35.00       | 0.00            | 0.00           |
| September       | 2022-09-16 | 33.80             | 31.90             | 0.00             | 34.30       | 0.00            | 0.00           |
| October         | 2022-10-20 | 39.30             | 33.60             | 0.00             | 27.10       | 0.00            | 0.00           |
| November        | 2022-11-21 | 34.00             | 30.90             | 0.00             | 35.10       | 0.00            | 0.00           |
| December        | 2022-12-15 | 9.60              | 19.60             | 3.90             | 66.90       | 4.40            | 0.00           |
| <b>Average</b>  |            | <b>31.5</b>       | <b>29.9</b>       | <b>0.5</b>       | <b>38.2</b> | <b>0.4</b>      | <b>0.3</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW050B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 58.60             | 38.30             | 0.00             | 3.10        | 1.60            | 1.90           |
| February        | 2022-02-15 | 57.30             | 38.60             | 0.00             | 4.10        | 10.90           | 9.30           |
| March           | 2022-03-16 | 53.70             | 37.90             | 0.00             | 8.40        | 6.00            | 5.10           |
| April           | 2022-04-12 | 59.30             | 39.80             | 0.00             | 0.90        | 3.40            | 4.30           |
| May             | 2022-05-13 | 57.30             | 38.60             | 0.00             | 4.10        | 5.60            | 5.40           |
| June            | 2022-06-30 | 48.50             | 36.40             | 0.10             | 15.00       | 5.80            | 3.60           |
| July            | 2022-07-14 | 55.10             | 38.20             | 0.00             | 6.70        | 8.80            | 8.20           |
| August          | 2022-08-12 | 55.20             | 38.90             | 0.00             | 5.90        | 5.10            | 5.00           |
| September       | 2022-09-13 | 54.30             | 38.70             | 0.00             | 7.00        | 5.90            | 5.90           |
| October         | 2022-10-19 | 50.90             | 37.60             | 0.00             | 11.50       | 2.40            | 1.90           |
| November        | 2022-11-16 | 59.80             | 39.80             | 0.00             | 0.40        | 4.70            | 5.10           |
| December        | 2022-12-14 | 43.80             | 35.80             | 0.00             | 20.40       | 1.90            | 0.00           |
| <b>Average</b>  |            | <b>54.5</b>       | <b>38.2</b>       | <b>0.0</b>       | <b>7.3</b>  | <b>5.2</b>      | <b>4.6</b>     |
| <b>HLGW051B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-25 | 47.70             | 35.20             | 0.10             | 17.00       | 9.90            | 8.10           |
| February        | 2022-02-15 | 57.50             | 38.60             | 0.10             | 3.80        | 10.90           | 10.80          |
| March           | 2022-03-16 | 50.60             | 36.80             | 0.20             | 12.40       | 8.30            | 7.90           |
| April           | 2022-04-12 | 56.00             | 39.10             | 0.00             | 4.90        | 4.10            | 4.60           |
| May             | 2022-05-13 | 49.80             | 36.70             | 0.20             | 13.30       | 4.30            | 2.20           |
| June            | 2022-06-23 | 58.60             | 39.60             | 0.10             | 1.70        | 1.90            | 3.10           |
| July            | 2022-07-14 | 57.90             | 38.80             | 0.50             | 2.80        | 8.40            | 8.10           |
| August          | 2022-08-12 | 49.90             | 36.90             | 0.30             | 12.90       | 4.60            | 4.80           |
| September       | 2022-09-13 | 51.30             | 37.10             | 0.40             | 11.20       | 7.00            | 6.20           |
| October         | 2022-10-19 | 52.70             | 37.70             | 0.40             | 9.20        | 2.70            | 2.40           |
| November        | 2022-11-16 | 57.90             | 39.20             | 0.40             | 2.50        | 3.20            | 3.00           |
| December        | 2022-12-14 | 48.60             | 36.80             | 0.90             | 13.70       | 3.00            | 1.90           |
| <b>Average</b>  |            | <b>53.2</b>       | <b>37.7</b>       | <b>0.3</b>       | <b>8.8</b>  | <b>5.7</b>      | <b>5.3</b>     |
| <b>HLGW0052</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-14 | 57.00             | 39.10             | 0.10             | 3.80        | 10.20           | 13.00          |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-22 | 41.00             | 37.00             | 0.10             | 21.90       | 5.10            | 2.70           |
| May             | 2022-05-13 | 50.90             | 39.50             | 0.00             | 9.60        | 9.40            | 4.90           |
| June            | 2022-06-30 | 57.90             | 39.80             | 0.30             | 2.00        | 2.60            | 6.30           |
| July            | 2022-07-13 | 54.80             | 41.50             | 0.00             | 3.70        | 8.40            | 9.70           |
| August          |            |                   |                   |                  |             |                 |                |
| September       | 2022-09-14 | 54.70             | 40.20             | 0.00             | 5.10        | 8.30            | 7.40           |
| October         | 2022-10-11 | 59.30             | 40.40             | 0.30             | 0.00        | 0.00            | 3.80           |
| November        | 2022-11-17 | 21.10             | 22.20             | 6.00             | 50.70       | 6.80            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>49.6</b>       | <b>37.5</b>       | <b>0.9</b>       | <b>12.1</b> | <b>6.4</b>      | <b>6.0</b>     |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW0053</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 57.40             | 42.50             | 0.00             | 0.10       | 7.30            | 5.60           |
| February        | 2022-02-14 | 57.70             | 42.30             | 0.00             | 0.00       | 9.20            | 14.90          |
| March           | 2022-03-15 | 55.20             | 42.00             | 0.00             | 2.80       | 10.00           | 11.50          |
| April           | 2022-04-14 | 55.10             | 42.10             | 0.00             | 2.80       | 13.10           | 13.20          |
| May             | 2022-05-13 | 56.30             | 42.10             | 0.00             | 1.60       | 14.70           | 13.50          |
| June            | 2022-06-22 | 56.70             | 41.80             | 0.10             | 1.40       | 10.20           | 12.90          |
| July            |            |                   |                   |                  |            |                 |                |
| August          | 2022-08-15 | 56.40             | 42.20             | 0.00             | 1.40       | 9.90            | 10.60          |
| September       | 2022-09-14 | 56.30             | 42.30             | 0.00             | 1.40       | 9.90            | 10.70          |
| October         | 2022-10-11 | 57.30             | 42.40             | 0.20             | 0.10       | 8.40            | 10.00          |
| November        | 2022-11-10 | 56.50             | 43.50             | 0.00             | 0.00       | 10.40           | 12.80          |
| December        | 2022-12-09 | 56.20             | 43.80             | 0.00             | 0.00       | 8.00            | 10.50          |
| <b>Average</b>  |            | <b>56.5</b>       | <b>42.5</b>       | <b>0.0</b>       | <b>1.1</b> | <b>10.1</b>     | <b>11.5</b>    |
| <b>HLGW0054</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 58.00             | 42.00             | 0.00             | 0.00       | 6.80            | 7.20           |
| February        | 2022-02-14 | 48.50             | 38.80             | 0.00             | 12.70      | 4.40            | 2.90           |
| March           | 2022-03-21 | 46.10             | 38.00             | 0.10             | 15.80      | 3.70            | 2.30           |
| April           | 2022-04-14 | 57.20             | 42.80             | 0.00             | 0.00       | 1.60            | 8.50           |
| May             | 2022-05-13 | 57.10             | 42.90             | 0.00             | 0.00       | 1.00            | 3.90           |
| June            | 2022-06-22 | 57.20             | 42.80             | 0.10             |            | 1.20            | 3.30           |
| July            | 2022-07-13 | 51.80             | 40.60             | 0.00             | 7.60       | 2.50            | 2.20           |
| August          | 2022-08-15 | 57.10             | 42.40             | 0.00             | 0.50       | 1.10            | 2.20           |
| September       | 2022-09-14 | 50.10             | 40.30             | 0.00             | 9.60       | 1.60            | 0.90           |
| October         | 2022-10-11 | 48.60             | 39.70             | 0.10             | 11.60      | 1.90            | 2.10           |
| November        | 2022-11-10 | 55.30             | 44.70             | 0.00             | 0.00       | 3.40            | 4.30           |
| December        | 2022-12-09 | 55.50             | 44.50             | 0.00             | 0.00       | 1.60            | 3.90           |
| <b>Average</b>  |            | <b>53.5</b>       | <b>41.6</b>       | <b>0.0</b>       | <b>5.3</b> | <b>2.6</b>      | <b>3.6</b>     |
| <b>HLGW0055</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        | 2022-02-14 | 53.10             | 39.20             | 0.00             | 7.70       | 11.10           | 9.70           |
| March           | 2022-03-21 | 52.20             | 38.80             | 0.30             | 8.70       | 6.20            | 4.80           |
| April           | 2022-04-14 | 57.50             | 40.70             | 0.00             | 1.80       | 2.70            | 2.90           |
| May             | 2022-05-13 | 56.40             | 40.00             | 0.00             | 3.60       | 3.20            | 3.10           |
| June            | 2022-06-22 | 55.70             | 39.80             | 0.00             | 4.50       | 3.60            | 4.00           |
| July            | 2022-07-13 | 49.20             | 38.30             | 0.10             | 12.40      | 5.30            | 3.70           |
| August          | 2022-08-15 | 57.70             | 41.50             | 0.00             | 0.80       | 2.50            | 3.80           |
| September       | 2022-09-14 | 51.50             | 39.80             | 0.00             | 8.70       | 3.90            | 4.20           |
| October         | 2022-10-11 | 48.90             | 38.70             | 0.20             | 12.20      | 5.80            | 5.70           |
| November        | 2022-11-10 | 57.30             | 42.70             | 0.00             | 0.00       | 2.30            | 3.90           |
| December        | 2022-12-09 | 56.50             | 43.50             | 0.00             | 0.00       | 1.30            | 2.80           |
| <b>Average</b>  |            | <b>54.2</b>       | <b>40.3</b>       | <b>0.1</b>       | <b>5.5</b> | <b>4.4</b>      | <b>4.4</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0056</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-30 | 13.10             | 18.30             | 6.80             | 61.80       | 0.00            | 0.00           |
| June            | 2022-06-29 | 15.10             | 19.10             | 6.10             | 59.70       | 0.00            | 0.00           |
| July            | 2022-07-13 | 15.90             | 22.00             | 3.10             | 59.00       | 0.00            | 0.00           |
| August          | 2022-08-30 | 14.10             | 16.20             | 8.40             | 61.30       | 0.00            | 0.00           |
| September       | 2022-09-14 | 11.00             | 12.00             | 12.50            | 64.50       | 0.00            | 0.00           |
| October         | 2022-10-14 | 10.10             | 17.20             | 5.30             | 67.40       |                 |                |
| November        | 2022-11-28 | 7.30              | 12.20             | 11.50            | 69.00       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>12.4</b>       | <b>16.7</b>       | <b>7.7</b>       | <b>63.2</b> | <b>0.0</b>      | <b>0.0</b>     |
| <b>HLGW0057</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 53.60             | 38.70             | 0.30             | 7.40        | 30.60           | 29.80          |
| February        | 2022-02-14 | 56.90             | 40.30             | 0.00             | 2.80        | 19.10           | 21.70          |
| March           | 2022-03-15 | 55.70             | 40.20             | 0.20             | 3.90        | 17.80           | 17.90          |
| April           | 2022-04-14 | 55.80             | 40.00             | 0.00             | 4.20        | 13.20           | 12.40          |
| May             | 2022-05-13 | 58.00             | 40.60             | 0.10             | 1.30        | 14.50           | 16.40          |
| June            | 2022-06-22 | 57.30             | 40.10             | 0.20             | 2.40        | 13.70           | 15.40          |
| July            | 2022-07-13 | 52.10             | 38.90             | 0.30             | 8.70        | 20.10           | 20.20          |
| August          | 2022-08-15 | 52.60             | 39.30             | 0.20             | 7.90        | 19.60           | 17.60          |
| September       | 2022-09-14 | 53.80             | 39.90             | 0.00             | 6.30        | 17.70           | 17.70          |
| October         | 2022-10-11 | 56.20             | 40.20             | 0.10             | 3.50        | 18.50           | 18.50          |
| November        | 2022-11-10 | 51.60             | 38.40             | 0.00             | 10.00       | 19.90           | 17.60          |
| December        | 2022-12-09 | 55.80             | 40.50             | 0.00             | 3.70        | 14.30           | 14.50          |
| <b>Average</b>  |            | <b>55.0</b>       | <b>39.8</b>       | <b>0.1</b>       | <b>5.2</b>  | <b>18.3</b>     | <b>18.3</b>    |
| <b>HLGW0058</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-14 | 21.90             | 23.60             | 5.00             | 49.50       | 18.20           | 7.30           |
| May             | 2022-05-13 | 38.00             | 32.30             | 1.30             | 28.40       | 0.00            | 0.00           |
| June            | 2022-06-22 | 43.50             | 33.00             | 0.70             | 22.80       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-15 | 21.50             | 22.30             | 5.20             | 51.00       | 13.60           | 1.60           |
| September       | 2022-09-14 | 45.30             | 37.90             | 0.40             | 16.40       | 0.00            | 0.00           |
| October         | 2022-10-11 | 42.50             | 35.80             | 0.90             | 20.80       | 0.00            | 0.00           |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>35.5</b>       | <b>30.8</b>       | <b>2.3</b>       | <b>31.5</b> | <b>5.3</b>      | <b>1.5</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW0059</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-14 | 58.50             | 40.80             | 0.70             | 0.00        | 19.40           | 23.70          |
| March           | 2022-03-15 | 53.40             | 40.30             | 0.10             | 6.20        | 41.70           | 31.00          |
| April           | 2022-04-14 | 55.80             | 40.40             | 0.00             | 3.80        | 33.60           | 30.90          |
| May             | 2022-05-13 | 58.20             | 41.70             | 0.10             | 0.00        | 16.40           | 17.90          |
| June            | 2022-06-23 | 37.70             | 33.00             | 1.80             | 27.50       | 0.00            | 0.00           |
| July            | 2022-07-13 | 54.10             | 40.20             | 0.20             | 5.50        | 17.90           | 17.20          |
| August          | 2022-08-15 | 52.30             | 39.30             | 0.00             | 8.40        | 15.20           | 18.40          |
| September       | 2022-09-14 | 58.20             | 41.70             | 0.10             | 0.00        | 14.60           | 20.40          |
| October         | 2022-10-12 | 32.60             | 32.10             | 3.00             | 32.30       | 0.00            | 0.00           |
| November        | 2022-11-17 | 29.20             | 26.80             | 4.60             | 39.40       | 44.70           | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>49.0</b>       | <b>37.6</b>       | <b>1.1</b>       | <b>12.3</b> | <b>20.4</b>     | <b>16.0</b>    |
| <b>HLGW0060</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |
| <b>HLGW0061</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-14 | 56.50             | 41.40             | 0.00             | 2.10        | 9.40            | 11.00          |
| March           | 2022-03-21 | 55.40             | 41.30             | 0.10             | 3.20        | 21.40           | 17.70          |
| April           | 2022-04-14 | 55.80             | 41.80             | 0.00             | 2.40        | 9.90            | 10.70          |
| May             | 2022-05-13 | 57.80             | 42.20             | 0.00             | 0.00        | 16.50           | 17.10          |
| June            | 2022-06-22 | 58.00             | 41.90             | 0.10             | 0.00        | 6.40            | 9.90           |
| July            | 2022-07-13 | 52.50             | 40.70             | 0.10             | 6.70        | 13.10           | 13.80          |
| August          | 2022-08-15 | 54.10             | 41.40             | 0.00             | 4.50        | 13.80           | 11.20          |
| September       | 2022-09-14 | 55.70             | 41.50             | 0.00             | 2.80        | 14.00           | 14.30          |
| October         | 2022-10-12 | 47.50             | 39.20             | 0.00             | 13.30       | 11.50           | 7.40           |
| November        | 2022-11-17 | 45.00             | 38.30             | 0.30             | 16.40       | 11.00           | 9.10           |
| December        | 2022-12-09 | 56.50             | 40.20             | 0.60             | 2.70        | 6.10            | 5.90           |
| <b>Average</b>  |            | <b>54.1</b>       | <b>40.9</b>       | <b>0.1</b>       | <b>4.9</b>  | <b>12.1</b>     | <b>11.6</b>    |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW0062</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 57.20             | 42.80             | 0.00             | 0.00       | 16.30           | 16.50          |
| February        | 2022-02-14 | 57.70             | 42.30             | 0.00             | 0.00       | 1.70            | 12.80          |
| March           | 2022-03-21 | 56.80             | 43.20             | 0.00             | 0.00       | 8.40            | 9.70           |
| April           | 2022-04-14 | 57.10             | 42.90             | 0.00             | 0.00       | 8.60            | 9.20           |
| May             | 2022-05-13 | 55.60             | 42.40             | 0.00             | 2.00       | 12.60           | 12.70          |
| June            | 2022-06-22 | 57.20             | 42.70             | 0.10             | 0.00       | 4.50            | 8.10           |
| July            | 2022-07-13 | 52.80             | 41.50             | 0.00             | 5.70       | 6.10            | 6.20           |
| August          |            |                   |                   |                  |            |                 |                |
| September       | 2022-09-14 | 55.70             | 43.00             | 0.00             | 1.30       | 6.60            | 8.00           |
| October         | 2022-10-12 | 38.30             | 36.40             | 0.00             | 25.30      | 8.10            | 4.40           |
| November        | 2022-11-10 | 55.10             | 44.90             | 0.00             | 0.00       | 3.70            | 5.00           |
| December        | 2022-12-09 | 55.40             | 44.60             | 0.00             | 0.00       | 0.00            | 6.00           |
| <b>Average</b>  |            | <b>54.4</b>       | <b>42.4</b>       | <b>0.0</b>       | <b>3.1</b> | <b>7.0</b>      | <b>9.0</b>     |
| <b>HLGW0063</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 58.10             | 41.70             | 0.00             | 0.20       | 13.00           | 13.10          |
| February        | 2022-02-14 | 57.30             | 42.70             | 0.00             | 0.00       | 0.00            | 6.20           |
| March           | 2022-03-21 | 57.50             | 42.00             | 0.00             | 0.50       | 4.10            | 5.80           |
| April           | 2022-04-14 | 56.80             | 42.90             | 0.00             | 0.30       | 2.40            | 3.10           |
| May             | 2022-05-13 | 53.40             | 41.50             | 0.00             | 5.10       | 2.80            | 2.70           |
| June            | 2022-06-22 | 56.00             | 43.20             | 0.00             | 0.80       | 0.00            | 2.80           |
| July            | 2022-07-13 | 53.20             | 41.70             | 0.00             | 5.10       | 1.40            | 1.60           |
| August          | 2022-08-15 | 53.30             | 41.90             | 0.00             | 4.80       | 2.00            | 3.90           |
| September       | 2022-09-14 | 51.80             | 41.60             | 0.00             | 6.60       | 3.30            | 3.30           |
| October         | 2022-10-12 | 41.00             | 37.60             | 0.00             | 21.40      | 4.00            | 2.80           |
| November        | 2022-11-10 | 55.30             | 44.70             | 0.00             | 0.00       | 0.90            | 2.20           |
| December        | 2022-12-09 | 53.80             | 46.20             | 0.00             | 0.00       | 1.30            | 2.40           |
| <b>Average</b>  |            | <b>54.0</b>       | <b>42.3</b>       | <b>0.0</b>       | <b>3.7</b> | <b>2.9</b>      | <b>4.2</b>     |
| <b>HLGW064B</b> |            |                   |                   |                  |            |                 |                |
| January         |            |                   |                   |                  |            |                 |                |
| February        | 2022-02-14 | 57.40             | 41.00             | 0.00             | 1.60       | 11.30           | 14.10          |
| March           | 2022-03-15 | 57.40             | 40.90             | 0.00             | 1.70       | 12.70           | 14.40          |
| April           | 2022-04-14 | 57.30             | 40.80             | 0.00             | 1.90       | 10.00           | 12.40          |
| May             | 2022-05-13 | 57.10             | 40.40             | 0.00             | 2.50       | 27.50           | 27.50          |
| June            | 2022-06-22 | 56.30             | 40.00             | 0.00             | 3.70       | 24.30           | 27.40          |
| July            | 2022-07-13 | 53.20             | 39.30             | 0.00             | 7.50       | 26.40           | 26.40          |
| August          | 2022-08-15 | 52.20             | 38.90             | 0.00             | 8.90       | 32.60           | 31.80          |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>55.8</b>       | <b>40.2</b>       | <b>0.0</b>       | <b>4.0</b> | <b>20.7</b>     | <b>22.0</b>    |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW065A</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             |            |                   |                   |                  |             |                 |                |
| June            |            |                   |                   |                  |             |                 |                |
| July            |            |                   |                   |                  |             |                 |                |
| August          |            |                   |                   |                  |             |                 |                |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            |                   |                   |                  |             |                 |                |
| <b>HLGW065B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 42.70             | 33.00             | 3.00             | 21.30       | 12.10           | 12.30          |
| February        | 2022-02-14 | 22.40             | 24.70             | 3.60             | 49.30       | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           | 2022-04-14 | 9.50              | 10.30             | 14.40            | 65.80       | 0.00            | 0.00           |
| May             | 2022-05-13 | 39.70             | 34.70             | 0.20             | 25.40       | 0.00            | 0.00           |
| June            | 2022-06-22 | 41.10             | 33.90             | 0.10             | 24.90       | 0.00            | 0.00           |
| July            | 2022-07-13 | 23.60             | 28.10             | 0.50             | 47.80       | 0.00            | 0.00           |
| August          | 2022-08-15 | 40.30             | 33.20             | 0.30             | 26.20       | 0.00            | 0.00           |
| September       | 2022-09-14 | 20.10             | 24.40             | 0.90             | 54.60       | 0.00            | 0.00           |
| October         | 2022-10-12 | 21.50             | 27.50             | 1.10             | 49.90       | 0.00            | 0.00           |
| November        | 2022-11-10 | 24.60             | 25.40             | 1.80             | 48.20       | 0.00            | 0.00           |
| December        | 2022-12-09 | 40.10             | 33.70             | 1.30             | 24.90       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>29.6</b>       | <b>28.1</b>       | <b>2.5</b>       | <b>39.8</b> | <b>1.1</b>      | <b>1.1</b>     |
| <b>HLGW066A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 52.90             | 38.80             | 0.00             | 8.30        | 0.00            | 0.00           |
| February        | 2022-02-14 | 39.30             | 33.70             | 0.00             | 27.00       | 0.00            | 0.00           |
| March           | 2022-03-17 | 41.10             | 33.60             | 0.40             | 24.90       | 0.00            | 0.00           |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-12 | 45.60             | 35.60             | 0.00             | 18.80       | 0.00            | 0.00           |
| June            | 2022-06-22 | 41.90             | 34.50             | 0.90             | 22.70       | 0.00            | 0.00           |
| July            | 2022-07-11 | 40.20             | 34.30             | 0.20             | 25.30       | 0.00            | 0.00           |
| August          | 2022-08-09 | 37.70             | 32.10             | 1.60             | 28.60       | 0.00            | 0.00           |
| September       | 2022-09-12 | 36.50             | 32.60             | 0.00             | 30.90       | 0.00            | 0.00           |
| October         | 2022-10-07 | 34.10             | 31.30             | 0.20             | 34.40       | 0.00            | 0.00           |
| November        | 2022-11-10 | 36.00             | 32.70             | 0.10             | 31.20       | 2.10            | 0.00           |
| December        | 2022-12-06 | 32.90             | 33.10             | 0.00             | 34.00       | 0.00            | 0.00           |
| <b>Average</b>  |            | <b>39.8</b>       | <b>33.8</b>       | <b>0.3</b>       | <b>26.0</b> | <b>0.2</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW066B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 54.30             | 39.20             | 0.40             | 6.10        | 75.90           | 62.20          |
| February        | 2022-02-14 | 55.40             | 40.10             | 0.00             | 4.50        | 77.80           | 67.50          |
| March           | 2022-03-15 | 54.90             | 40.10             | 0.00             | 5.00        | 35.50           | 31.80          |
| April           | 2022-04-14 | 55.20             | 40.40             | 0.00             | 4.40        | 41.20           | 28.40          |
| May             | 2022-05-13 | 55.90             | 40.20             | 0.00             | 3.90        | 18.30           | 18.20          |
| June            | 2022-06-22 | 56.30             | 40.00             | 0.10             | 3.60        | 16.40           | 20.20          |
| July            | 2022-07-13 | 52.10             | 38.80             | 0.10             | 9.00        | 10.40           | 9.10           |
| August          | 2022-08-15 | 50.50             | 37.80             | 0.00             | 11.70       | 4.40            | 4.80           |
| September       | 2022-09-14 | 54.50             | 39.50             | 0.00             | 6.00        | 6.40            | 9.60           |
| October         | 2022-10-12 | 50.60             | 38.50             | 0.20             | 10.70       | 14.20           | 12.30          |
| November        | 2022-11-10 | 53.80             | 43.10             | 3.10             | 0.00        | 0.00            | 2.40           |
| December        | 2022-12-06 | 55.60             | 40.50             | 0.00             | 3.90        | 0.00            | 12.80          |
| <b>Average</b>  |            | <b>54.1</b>       | <b>39.9</b>       | <b>0.3</b>       | <b>5.7</b>  | <b>25.0</b>     | <b>23.3</b>    |
| <b>HLGW067A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 50.40             | 39.00             | 0.00             | 10.60       | 12.60           | 10.00          |
| February        | 2022-02-14 | 58.20             | 41.80             | 0.00             | 0.00        | 24.10           | 26.50          |
| March           | 2022-03-17 | 58.80             | 41.20             | 0.00             | 0.00        | 21.20           | 23.70          |
| April           | 2022-04-12 | 58.30             | 41.60             | 0.10             | 0.00        | 15.30           | 18.60          |
| May             | 2022-05-12 | 58.10             | 41.90             | 0.00             | 0.00        | 23.50           | 25.50          |
| June            | 2022-06-22 | 55.30             | 39.50             | 0.80             | 4.40        | 28.40           | 28.40          |
| July            | 2022-07-11 | 55.80             | 40.30             | 0.10             | 3.80        | 21.40           | 21.50          |
| August          | 2022-08-09 | 57.40             | 41.30             | 0.00             | 1.30        | 22.00           | 24.50          |
| September       | 2022-09-12 | 55.50             | 40.10             | 0.40             | 4.00        | 22.90           | 24.50          |
| October         | 2022-10-07 | 56.60             | 40.30             | 0.00             | 3.10        | 22.90           | 23.90          |
| November        | 2022-11-09 | 56.80             | 41.20             | 0.30             | 1.70        | 27.10           | 32.90          |
| December        | 2022-12-06 | 51.40             | 38.70             | 0.80             | 9.10        | 28.50           | 24.40          |
| <b>Average</b>  |            | <b>56.1</b>       | <b>40.6</b>       | <b>0.2</b>       | <b>3.2</b>  | <b>22.5</b>     | <b>23.7</b>    |
| <b>HLGW067B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        | 2022-02-14 | 19.70             | 16.00             | 0.00             | 64.30       | 0.00            | 0.00           |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-13 | 27.60             | 31.90             | 1.60             | 38.90       | 0.00            | 0.00           |
| June            | 2022-06-23 | 7.80              | 18.40             | 15.10            | 58.70       | 0.00            | 0.00           |
| July            |            |                   |                   |                  |             |                 |                |
| August          | 2022-08-16 | 25.10             | 20.00             | 10.20            | 44.70       | 0.00            | 0.00           |
| September       | 2022-09-14 | 21.30             | 17.80             | 5.90             | 55.00       | 0.00            | 0.00           |
| October         | 2022-10-13 | 23.00             | 18.40             | 10.30            | 48.30       | 0.00            | 0.00           |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>20.8</b>       | <b>20.4</b>       | <b>7.2</b>       | <b>51.7</b> | <b>0.0</b>      | <b>0.0</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %   | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|-------------|-----------------|----------------|
| <b>HLGW068B</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-28 | 57.90             | 42.10             | 0.00             | 0.00        | 4.70            | 9.70           |
| February        | 2022-02-14 | 56.10             | 41.20             | 0.20             | 2.50        | 11.40           | 12.30          |
| March           | 2022-03-15 | 53.80             | 40.10             | 0.50             | 5.60        | 14.70           | 13.30          |
| April           | 2022-04-14 | 54.80             | 41.10             | 0.20             | 3.90        | 9.60            | 9.40           |
| May             | 2022-05-13 | 55.20             | 41.30             | 0.10             | 3.40        | 7.90            | 7.90           |
| June            | 2022-06-22 | 53.90             | 40.80             | 0.20             | 5.10        | 7.80            | 7.80           |
| July            | 2022-07-13 | 52.50             | 40.50             | 0.10             | 6.90        | 6.70            | 6.80           |
| August          | 2022-08-15 | 55.40             | 41.40             | 0.00             | 3.20        | 6.00            | 9.10           |
| September       |            |                   |                   |                  |             |                 |                |
| October         |            |                   |                   |                  |             |                 |                |
| November        |            |                   |                   |                  |             |                 |                |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>55.0</b>       | <b>41.1</b>       | <b>0.2</b>       | <b>3.8</b>  | <b>8.6</b>      | <b>9.5</b>     |
| <b>RWHGW01A</b> |            |                   |                   |                  |             |                 |                |
| January         | 2022-01-18 | 45.50             | 36.90             | 0.50             | 17.10       | 0.00            | 0.00           |
| February        | 2022-02-14 | 50.10             | 38.90             | 0.10             | 10.90       | 0.00            | 0.00           |
| March           | 2022-03-21 | 49.70             | 38.90             | 0.00             | 11.40       | 0.00            | 0.00           |
| April           | 2022-04-22 | 51.20             | 39.70             | 0.00             | 9.10        | 0.00            | 0.00           |
| May             | 2022-05-12 | 46.90             | 36.80             | 0.70             | 15.60       | 0.00            | 0.00           |
| June            | 2022-06-22 | 52.00             | 39.00             | 0.10             | 8.90        | 0.00            | 0.00           |
| July            | 2022-07-11 | 55.10             | 40.80             | 0.10             | 4.00        | 0.00            | 2.10           |
| August          | 2022-08-09 | 56.20             | 41.40             | 0.00             | 2.40        | 2.90            | 3.10           |
| September       | 2022-09-12 | 52.60             | 40.60             | 0.00             | 6.80        | 0.00            | 1.30           |
| October         | 2022-10-07 | 45.90             | 36.10             | 0.90             | 17.10       | 1.80            | 2.60           |
| November        | 2022-11-09 | 50.80             | 40.40             | 0.00             | 8.80        | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>50.5</b>       | <b>39.0</b>       | <b>0.2</b>       | <b>10.2</b> | <b>0.4</b>      | <b>0.8</b>     |
| <b>RWHGW01B</b> |            |                   |                   |                  |             |                 |                |
| January         |            |                   |                   |                  |             |                 |                |
| February        |            |                   |                   |                  |             |                 |                |
| March           |            |                   |                   |                  |             |                 |                |
| April           |            |                   |                   |                  |             |                 |                |
| May             | 2022-05-24 | 37.60             | 31.70             | 2.30             | 28.40       | 0.00            | 0.00           |
| June            | 2022-06-29 | 44.40             | 36.00             | 1.20             | 18.40       | 0.00            | 0.00           |
| July            | 2022-07-13 | 44.00             | 35.60             | 1.20             | 19.20       | 0.00            | 0.00           |
| August          | 2022-08-30 | 47.40             | 38.40             | 0.40             | 13.80       | 0.00            | 1.80           |
| September       | 2022-09-14 | 32.80             | 30.30             | 3.00             | 33.90       | 0.90            | 0.60           |
| October         | 2022-10-14 | 39.10             | 34.00             | 1.20             | 25.70       | 0.00            | 0.00           |
| November        | 2022-11-28 | 36.80             | 32.20             | 2.80             | 28.20       | 0.00            | 0.00           |
| December        |            |                   |                   |                  |             |                 |                |
| <b>Average</b>  |            | <b>40.3</b>       | <b>34.0</b>       | <b>1.7</b>       | <b>23.9</b> | <b>0.1</b>      | <b>0.3</b>     |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW070A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 54.90             | 40.70             | 0.00             | 4.40       | 31.60           | 21.80          |
| February        | 2022-02-14 | 57.20             | 41.30             | 0.00             | 1.50       | 25.80           | 26.50          |
| March           | 2022-03-17 | 58.40             | 41.60             | 0.00             | 0.00       | 23.20           | 27.40          |
| April           | 2022-04-12 | 57.60             | 42.40             | 0.00             | 0.00       | 16.30           | 18.10          |
| May             | 2022-05-12 | 57.50             | 42.50             | 0.00             | 0.00       | 22.90           | 20.50          |
| June            | 2022-06-21 | 51.60             | 39.00             | 0.30             | 9.10       | 26.10           | 22.40          |
| July            | 2022-07-11 | 54.90             | 40.30             | 0.00             | 4.80       | 20.20           | 22.10          |
| August          | 2022-08-09 | 57.60             | 42.20             | 0.20             | 0.00       | 21.90           | 22.00          |
| September       | 2022-09-12 | 53.20             | 40.30             | 0.00             | 6.50       | 25.70           | 26.10          |
| October         | 2022-10-07 | 57.50             | 40.90             | 0.00             | 1.60       | 17.00           | 17.40          |
| November        | 2022-11-09 | 53.50             | 39.60             | 0.20             | 6.70       | 24.80           | 23.60          |
| December        | 2022-12-06 | 57.40             | 40.80             | 0.00             | 1.80       | 20.50           | 21.80          |
| <b>Average</b>  |            | <b>55.9</b>       | <b>41.0</b>       | <b>0.1</b>       | <b>3.0</b> | <b>23.0</b>     | <b>22.5</b>    |
| <b>HLGW071A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 50.10             | 38.10             | 0.50             | 11.30      | 21.20           | 16.20          |
| February        | 2022-02-14 | 55.10             | 40.20             | 0.20             | 4.50       | 22.50           | 21.80          |
| March           | 2022-03-17 | 58.30             | 41.70             | 0.00             | 0.00       | 16.90           | 19.60          |
| April           | 2022-04-12 | 58.20             | 41.80             | 0.00             | 0.00       | 12.00           | 13.00          |
| May             | 2022-05-12 | 57.80             | 42.20             | 0.00             | 0.00       | 9.20            | 10.10          |
| June            | 2022-06-21 | 54.90             | 39.40             | 0.40             | 5.30       | 16.00           | 16.00          |
| July            | 2022-07-11 | 55.80             | 40.00             | 0.00             | 4.20       | 11.00           | 11.10          |
| August          | 2022-08-09 | 58.40             | 41.60             | 0.00             | 0.00       | 11.70           | 12.70          |
| September       | 2022-09-12 | 56.60             | 40.40             | 0.00             | 3.00       | 10.20           | 12.60          |
| October         | 2022-10-07 | 58.50             | 40.20             | 0.00             | 1.30       | 12.10           | 14.30          |
| November        | 2022-11-09 | 37.00             | 29.10             | 5.80             | 28.10      | 15.20           | 6.80           |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>54.6</b>       | <b>39.5</b>       | <b>0.6</b>       | <b>5.2</b> | <b>14.4</b>     | <b>14.0</b>    |
| <b>HLGW072A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 57.80             | 40.80             | 0.00             | 1.40       | 36.50           | 29.60          |
| February        | 2022-02-14 | 55.60             | 40.00             | 0.30             | 4.10       | 33.20           | 32.80          |
| March           | 2022-03-17 | 56.40             | 40.20             | 0.10             | 3.30       | 32.90           | 32.80          |
| April           | 2022-04-12 | 58.70             | 41.30             | 0.00             | 0.00       | 24.50           | 28.20          |
| May             | 2022-05-12 | 58.60             | 41.40             | 0.00             | 0.00       | 26.80           | 27.10          |
| June            | 2022-06-21 | 54.10             | 39.10             | 0.40             | 6.40       | 24.30           | 24.40          |
| July            | 2022-07-11 | 56.90             | 40.10             | 0.00             | 3.00       | 12.50           | 12.60          |
| August          | 2022-08-09 | 58.60             | 41.40             | 0.00             | 0.00       | 8.70            | 12.00          |
| September       | 2022-09-12 | 55.00             | 39.80             | 0.00             | 5.20       | 24.30           | 24.20          |
| October         | 2022-10-07 | 56.20             | 39.30             | 0.20             | 4.30       | 19.90           | 20.00          |
| November        | 2022-11-09 | 52.00             | 38.80             | 0.50             | 8.70       | 28.70           | 28.70          |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>56.4</b>       | <b>40.2</b>       | <b>0.1</b>       | <b>3.3</b> | <b>24.8</b>     | <b>24.8</b>    |



Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW073A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 58.60             | 41.00             | 0.00             | 0.40       | 45.30           | 42.00          |
| February        | 2022-02-14 | 55.70             | 40.30             | 0.00             | 4.00       | 40.70           | 42.00          |
| March           | 2022-03-17 | 59.00             | 41.00             | 0.00             | 0.00       | 44.90           | 48.90          |
| April           | 2022-04-12 | 59.10             | 40.90             | 0.00             | 0.00       | 35.30           | 40.00          |
| May             | 2022-05-12 | 58.80             | 41.10             | 0.00             | 0.10       | 36.70           | 39.10          |
| June            | 2022-06-21 | 54.50             | 39.20             | 0.20             | 6.10       | 33.50           | 36.20          |
| July            | 2022-07-11 | 53.20             | 38.80             | 0.10             | 7.90       | 17.40           | 17.30          |
| August          | 2022-08-09 | 56.30             | 40.40             | 0.00             | 3.30       | 33.10           | 33.10          |
| September       | 2022-09-12 | 54.60             | 39.70             | 0.00             | 5.70       | 31.80           | 31.80          |
| October         | 2022-10-07 | 57.30             | 39.80             | 0.00             | 2.90       | 21.20           | 21.20          |
| November        | 2022-11-09 | 58.40             | 41.60             | 0.00             | 0.00       | 35.60           | 44.30          |
| December        | 2022-12-06 | 54.60             | 40.00             | 0.20             | 5.20       | 55.50           | 55.10          |
| <b>Average</b>  |            | <b>56.7</b>       | <b>40.3</b>       | <b>0.0</b>       | <b>3.0</b> | <b>35.9</b>     | <b>37.6</b>    |
| <b>HLGW074A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 54.50             | 40.00             | 0.00             | 5.50       | 44.40           | 35.90          |
| February        | 2022-02-14 | 54.70             | 40.00             | 0.00             | 5.30       | 36.10           | 35.40          |
| March           | 2022-03-17 | 58.50             | 41.50             | 0.00             | 0.00       | 32.80           | 35.00          |
| April           | 2022-04-12 | 58.60             | 41.40             | 0.00             | 0.00       | 27.50           | 31.60          |
| May             | 2022-05-12 | 58.40             | 41.60             | 0.00             | 0.00       | 25.90           | 30.70          |
| June            | 2022-06-21 | 55.90             | 40.00             | 0.40             | 3.70       | 28.10           | 26.60          |
| July            | 2022-07-11 | 51.90             | 38.80             | 0.10             | 9.20       | 33.10           | 33.00          |
| August          | 2022-08-09 | 57.80             | 41.50             | 0.00             | 0.70       | 25.60           | 27.60          |
| September       | 2022-09-12 | 54.30             | 40.30             | 0.00             | 5.40       | 29.80           | 34.70          |
| October         | 2022-10-07 | 57.00             | 40.70             | 0.00             | 2.30       | 13.30           | 14.80          |
| November        | 2022-11-09 | 2.80              | 2.50              | 20.80            | 73.90      | 0.00            | 0.00           |
| December        | 2022-12-06 | 54.10             | 39.20             | 0.30             | 6.40       | 0.00            | 1.10           |
| <b>Average</b>  |            | <b>51.5</b>       | <b>37.3</b>       | <b>1.8</b>       | <b>9.4</b> | <b>24.7</b>     | <b>25.5</b>    |
| <b>HLGW075B</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-28 | 58.30             | 41.60             | 0.00             | 0.10       | 14.10           | 14.30          |
| February        | 2022-02-14 | 56.10             | 41.00             | 0.00             | 2.90       | 16.60           | 16.00          |
| March           | 2022-03-15 | 55.00             | 40.60             | 0.00             | 4.40       | 20.50           | 16.80          |
| April           | 2022-04-14 | 56.60             | 40.90             | 0.00             | 2.50       | 14.90           | 14.90          |
| May             | 2022-05-13 | 54.90             | 40.50             | 0.00             | 4.60       | 15.10           | 15.20          |
| June            | 2022-06-22 | 54.00             | 40.00             | 0.00             | 6.00       | 13.00           | 12.80          |
| July            | 2022-07-13 | 54.60             | 40.20             | 0.00             | 5.20       | 10.90           | 10.90          |
| August          | 2022-08-15 | 55.30             | 40.20             | 0.00             | 4.50       | 14.50           | 14.60          |
| September       |            |                   |                   |                  |            |                 |                |
| October         |            |                   |                   |                  |            |                 |                |
| November        |            |                   |                   |                  |            |                 |                |
| December        |            |                   |                   |                  |            |                 |                |
| <b>Average</b>  |            | <b>55.6</b>       | <b>40.6</b>       | <b>0.0</b>       | <b>3.8</b> | <b>15.0</b>     | <b>14.4</b>    |

Appendix B2, continued

| Month           | Date              | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|-------------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW079A</b> |                   |                   |                   |                  |            |                 |                |
| January         | 2022-01-18        | 52.70             | 39.30             | <<<<             | N/A        | 12.50           | 0.00           |
| February        | 2022-02-14        | 49.60             | 38.60             | 0.30             | 11.50      | 0.00            | 0.00           |
| March           | 2022-03-17        | 57.20             | 42.80             | 0.00             | 0.00       | 1.00            | 1.40           |
| April           | 2022-04-11        | 54.80             | 40.80             | 0.10             | 4.30       | 14.90           | 14.70          |
| May             | 2022-05-12        | 57.80             | 42.10             | 0.10             | 0.00       | 11.30           | 12.40          |
| June            | 2022-06-21        | 53.10             | 40.10             | 0.10             | 6.70       | 11.80           | 10.80          |
| July            | 2022-07-11        | 58.30             | 41.40             | 0.30             | 0.00       | 11.10           | 13.10          |
| August          | 2022-08-09        | 56.10             | 41.60             | 0.00             | 2.30       | 12.60           | 14.80          |
| September       | 2022-09-12        | 50.60             | 39.60             | 0.00             | 9.80       | 15.20           | 13.00          |
| October         | 2022-10-07        | 58.30             | 41.50             | 0.00             | 0.20       | 9.20            | 12.90          |
| November        | 2022-11-09        | 52.10             | 39.10             | 0.10             | 8.70       | 13.30           | 11.20          |
| December        | 2022-12-06        | 58.30             | 41.70             | 0.00             | 0.00       | 9.90            | 12.80          |
| <b>Average</b>  |                   | <b>54.9</b>       | <b>40.7</b>       | <b>0.1</b>       | <b>4.0</b> | <b>10.2</b>     | <b>9.8</b>     |
| <b>HLGW080A</b> |                   |                   |                   |                  |            |                 |                |
| January         | 2022-01-18        | 56.90             | 43.10             | 0.00             | 0.00       | 11.10           | 9.90           |
| February        | 2022-02-14        | 54.90             | 41.00             | 0.50             | 3.60       | 9.60            | 9.30           |
| March           | 2022-03-17        | 57.00             | 43.00             | 0.00             | 0.00       | 15.50           | 21.20          |
| April           | 2022-04-11        | 57.60             | 42.40             | 0.00             | 0.00       | 24.70           | 25.90          |
| May             | 2022-05-12        | 54.60             | 41.20             | 0.10             | 4.10       | 20.30           | 20.50          |
| June            | 2022-06-21        | 56.20             | 41.50             | 0.10             | 2.20       | 17.70           | 17.60          |
| July            | 2022-07-11        | 58.00             | 41.70             | 0.20             | 0.10       | 19.90           | 20.40          |
| August          | 2022-08-09        | 57.60             | 42.20             | 0.00             | 0.20       | 17.60           | 19.60          |
| September       | 2022-09-12        | 55.40             | 41.30             | 0.20             | 3.10       | 20.10           | 21.20          |
| October         | 2022-10-07        | 58.20             | 41.60             | 0.00             | 0.20       | 15.80           | 20.60          |
| November        | 2022-11-09        | 51.70             | 37.80             | 1.70             | 8.80       | 22.40           | 19.90          |
| December        | 2022-12-06        | 55.60             | 39.80             | 0.90             | 3.70       | 21.10           | 21.10          |
| <b>Average</b>  | <b>2022-06-28</b> | <b>56.1</b>       | <b>41.4</b>       | <b>0.3</b>       | <b>2.2</b> | <b>18.0</b>     | <b>18.9</b>    |
| <b>HLGW081A</b> |                   |                   |                   |                  |            |                 |                |
| January         | 2022-01-18        | 58.50             | 40.30             | 0.50             | 0.70       | 32.00           | 24.10          |
| February        | 2022-02-14        | 56.50             | 39.90             | 0.80             | 2.80       | 38.20           | 38.10          |
| March           | 2022-03-17        | 58.50             | 40.40             | 0.30             | 0.80       | 40.40           | 43.00          |
| April           | 2022-04-11        | 56.40             | 40.20             | 0.60             | 2.80       | 41.10           | 39.20          |
| May             | 2022-05-12        | 54.30             | 39.00             | 1.30             | 5.40       | 45.00           | 41.60          |
| June            | 2022-06-21        | 55.00             | 39.40             | 0.70             | 4.90       | 33.40           | 29.30          |
| July            | 2022-07-11        | 56.30             | 39.60             | 0.40             | 3.70       | 36.10           | 36.10          |
| August          | 2022-08-09        | 56.70             | 40.30             | 0.30             | 2.70       | 30.30           | 31.00          |
| September       | 2022-09-12        | 56.90             | 39.80             | 0.40             | 2.90       | 32.10           | 34.30          |
| October         | 2022-10-07        | 57.50             | 39.60             | 0.10             | 2.80       | 29.70           | 32.20          |
| November        | 2022-11-09        | 53.60             | 37.60             | 1.80             | 7.00       | 36.70           | 33.70          |
| December        | 2022-12-06        | 53.70             | 37.60             | 1.70             | 7.00       | 34.10           | 32.10          |
| <b>Average</b>  |                   | <b>56.2</b>       | <b>39.5</b>       | <b>0.7</b>       | <b>3.6</b> | <b>35.8</b>     | <b>34.6</b>    |

Appendix B2, continued

| Month           | Date       | CH <sub>4</sub> % | CO <sub>2</sub> % | O <sub>2</sub> % | Balance %  | Init. Flow SCFM | Adj. Flow SCFM |
|-----------------|------------|-------------------|-------------------|------------------|------------|-----------------|----------------|
| <b>HLGW082A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 59.30             | 40.10             | 0.60             | 0.00       | 13.10           | 21.20          |
| February        | 2022-02-14 | 54.40             | 39.30             | 0.90             | 5.40       | 24.70           | 23.30          |
| March           | 2022-03-17 | 58.60             | 41.40             | 0.00             | 0.00       | 23.60           | 24.50          |
| April           | 2022-04-11 | 58.20             | 41.80             | 0.00             | 0.00       | 22.20           | 24.30          |
| May             | 2022-05-12 | 57.90             | 42.10             | 0.00             | 0.00       | 21.70           | 22.80          |
| June            | 2022-06-21 | 54.20             | 38.70             | 1.00             | 6.10       | 22.30           | 20.10          |
| July            | 2022-07-11 | 58.70             | 40.50             | 0.10             | 0.70       | 21.90           | 22.10          |
| August          | 2022-08-09 | 57.80             | 40.70             | 0.00             | 1.50       | 21.20           | 22.80          |
| September       | 2022-09-12 | 54.50             | 39.30             | 0.60             | 5.60       | 22.30           | 22.30          |
| October         | 2022-10-07 | 58.20             | 40.30             | 0.00             | 1.50       | 18.00           | 20.00          |
| November        | 2022-11-09 | 47.40             | 34.00             | 3.90             | 14.70      | 23.10           | 16.00          |
| December        | 2022-12-06 | 47.80             | 34.50             | 3.50             | 14.20      | 14.80           | 9.90           |
| <b>Average</b>  |            | <b>55.6</b>       | <b>39.4</b>       | <b>0.9</b>       | <b>4.1</b> | <b>20.7</b>     | <b>20.8</b>    |
| <b>HLGW083A</b> |            |                   |                   |                  |            |                 |                |
| January         | 2022-01-18 | 60.00             | 39.90             | 0.00             | 0.10       | 31.60           | 37.30          |
| February        | 2022-02-14 | 56.40             | 39.80             | 0.40             | 3.40       | 30.10           | 29.70          |
| March           | 2022-03-17 | 56.50             | 40.20             | 0.00             | 3.30       | 21.20           | 21.90          |
| April           | 2022-04-11 | 54.40             | 39.70             | 0.00             | 5.90       | 17.20           | 15.50          |
| May             | 2022-05-12 | 56.90             | 40.60             | 0.00             | 2.50       | 11.20           | 11.10          |
| June            | 2022-06-21 | 55.80             | 39.80             | 0.10             | 4.30       | 27.00           | 25.80          |
| July            | 2022-07-11 | 56.70             | 39.70             | 0.10             | 3.50       | 25.80           | 25.80          |
| August          | 2022-08-09 | 58.90             | 41.10             | 0.00             | 0.00       | 26.20           | 29.80          |
| September       | 2022-09-12 | 54.20             | 38.50             | 0.90             | 6.40       | 31.20           | 26.50          |
| October         | 2022-10-07 | 56.80             | 39.70             | 0.00             | 3.50       | 30.70           | 29.90          |
| November        | 2022-11-09 | 52.90             | 38.70             | 0.50             | 7.90       | 31.50           | 26.60          |
| December        | 2022-12-06 | 55.50             | 40.00             | 0.00             | 4.50       | 25.30           | 25.30          |
| <b>Average</b>  |            | <b>56.3</b>       | <b>39.8</b>       | <b>0.2</b>       | <b>3.8</b> | <b>25.8</b>     | <b>25.4</b>    |

Note: <<>> = under or over range of instrument

**Appendix B3 2022 Hartland Landfill Gas Well Field Data Summary**

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| HLGW016B | 163                | 2012           | 55.6                       | 146.9               | 12.0                | 42,895,165                 | 1,214,662         | 43,606      | 16%                          | 16%                  |
| HLGW073A | 163                | 2019           | 56.7                       | 35.9                | 12.0                | 10,693,131                 | 302,797           | 10,870      | 4%                           | 20%                  |
| HLGW081A | 167                | 2019           | 56.2                       | 35.8                | 12.0                | 10,548,939                 | 298,714           | 10,724      | 4%                           | 24%                  |
| HLGW028A | 171                | 2017           | 55.5                       | 31.6                | 12.0                | 9,218,119                  | 261,029           | 9,371       | 3%                           | 27%                  |
| HLGW083A | 167                | 2019           | 56.3                       | 25.8                | 12.0                | 7,608,816                  | 215,459           | 7,735       | 3%                           | 30%                  |
| HLGW066B | 159 (3)            | 2018           | 54.1                       | 25.0                | 12.0                | 7,115,590                  | 201,492           | 7,234       | 3%                           | 33%                  |
| HLGW070A | 163                | 2019           | 55.9                       | 23.0                | 12.0                | 6,758,971                  | 191,394           | 6,871       | 3%                           | 36%                  |
| HLGW072A | 163                | 2019           | 56.4                       | 24.8                | 11.0                | 6,717,577                  | 190,222           | 6,829       | 3%                           | 38%                  |
| HLGW074A | 163                | 2019           | 51.5                       | 24.7                | 12.0                | 6,692,150                  | 189,502           | 6,803       | 3%                           | 41%                  |
| HLGW067A | 159 (3)            | 2018           | 56.1                       | 22.5                | 12.0                | 6,622,387                  | 187,526           | 6,732       | 2%                           | 43%                  |
| HLGW0018 | 165                | 2013           | 55.3                       | 22.6                | 12.0                | 6,572,614                  | 186,117           | 6,682       | 2%                           | 46%                  |
| HLGW082A | 167                | 2019           | 55.6                       | 20.7                | 12.0                | 6,056,275                  | 171,496           | 6,157       | 2%                           | 48%                  |
| HLGW042B | 175                | 2017           | 54.5                       | 20.7                | 12.0                | 5,911,089                  | 167,384           | 6,009       | 2%                           | 50%                  |
| HLGW032B | 171                | 2014           | 56.8                       | 18.2                | 12.0                | 5,439,613                  | 154,034           | 5,530       | 2%                           | 52%                  |
| HLGW080A | 167                | 2019           | 56.1                       | 18.0                | 12.0                | 5,303,625                  | 150,183           | 5,392       | 2%                           | 54%                  |
| HLGW0057 | 155(3)             | 2019           | 55.0                       | 18.3                | 12.0                | 5,268,026                  | 149,175           | 5,355       | 2%                           | 56%                  |
| HLGW0059 | 155(3)             | 2019           | 49.0                       | 20.4                | 10.0                | 4,365,124                  | 123,607           | 4,437       | 2%                           | 58%                  |
| HLGW071A | 163                | 2019           | 54.6                       | 14.4                | 11.0                | 3,777,097                  | 106,956           | 3,840       | 1%                           | 59%                  |
| HLGW030B | 171                | 2014           | 55.2                       | 12.4                | 12.0                | 3,597,529                  | 101,871           | 3,657       | 1%                           | 60%                  |
| VLGW0051 | ---                | 2011           | 57.5                       | 11.9                | 12.0                | 3,592,885                  | 101,740           | 3,652       | 1%                           | 62%                  |
| HLGW064B | 155(3)             | 2018           | 55.8                       | 20.7                | 7.0                 | 3,539,747                  | 97,034            | 3,484       | 1%                           | 63%                  |
| HLGW031B | 171                | 2014           | 53.5                       | 12.2                | 12.0                | 3,426,694                  | 97,034            | 3,484       | 1%                           | 64%                  |
| HLGW025B | 171                | 2016           | 55.0                       | 17.5                | 8.0                 | 3,370,093                  | 95,431            | 3,426       | 1%                           | 66%                  |
| HLGW0061 | 155(3)             | 2019           | 54.1                       | 12.1                | 11.0                | 3,150,594                  | 89,215            | 3,203       | 1%                           | 67%                  |
| HLGW047A | 179                | 2017           | 55.4                       | 10.5                | 12.0                | 3,068,327                  | 86,886            | 3,119       | 1%                           | 68%                  |
| HLGW039A | 175                | 2017           | 56.3                       | 10.2                | 12.0                | 3,019,797                  | 85,512            | 3,070       | 1%                           | 69%                  |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| HLGW079A | 167                | 2019           | 54.9                       | 10.2                | 12.0                | 2,951,703                  | 83,583            | 3,001       | 1%                           | 70%                  |
| HLGW075B | 163                | 2019           | 55.6                       | 15.0                | 8.0                 | 2,910,999                  | 82,431            | 2,959       | 1%                           | 71%                  |
| HLGW0053 | 151(3)             | 2018           | 56.5                       | 10.1                | 11.0                | 2,746,117                  | 77,762            | 2,792       | 1%                           | 72%                  |
| HLGW044A | 179                | 2017           | 56.5                       | 8.7                 | 12.0                | 2,587,118                  | 73,259            | 2,630       | 1%                           | 73%                  |
| HLGW033A | 171                | 2014           | 56.8                       | 8.5                 | 12.0                | 2,537,695                  | 71,860            | 2,580       | 1%                           | 74%                  |
| HLGW037B | 175                | 2017           | 54.6                       | 14.9                | 6.0                 | 2,137,464                  | 60,527            | 2,173       | 1%                           | 75%                  |
| HLGW049B | 179                | 2018           | 54.6                       | 7.3                 | 12.0                | 2,089,965                  | 59,182            | 2,125       | 1%                           | 76%                  |
| HLGW029A | 171                | 2017           | 54.2                       | 6.9                 | 12.0                | 1,969,004                  | 55,756            | 2,002       | 1%                           | 77%                  |
| HLGW021B | 165                | 2013           | 56.2                       | 7.0                 | 11.0                | 1,885,761                  | 53,399            | 1,917       | 1%                           | 77%                  |
| HLGW034A | 171                | 2014           | 55.1                       | 7.1                 | 11.0                | 1,885,295                  | 53,386            | 1,917       | 1%                           | 78%                  |
| HLGW0062 | 155(3)             | 2019           | 54.4                       | 7.0                 | 11.0                | 1,825,688                  | 51,698            | 1,856       | 1%                           | 79%                  |
| HLGW028B | 171                | 2015           | 56.8                       | 6.4                 | 11.0                | 1,752,124                  | 49,615            | 1,781       | 1%                           | 79%                  |
| HLGW040A | 175                | 2017           | 54.2                       | 5.9                 | 12.0                | 1,672,982                  | 47,374            | 1,701       | 1%                           | 80%                  |
| HLGW041B | 175                | 2017           | 52.5                       | 6.0                 | 12.0                | 1,667,282                  | 47,212            | 1,695       | 1%                           | 81%                  |
| HLGW068B | 160 (3)            | 2018           | 55.0                       | 8.6                 | 8.0                 | 1,654,978                  | 46,864            | 1,682       | 1%                           | 81%                  |
| HLGW038B | 175                | 2017           | 53.9                       | 5.8                 | 12.0                | 1,626,563                  | 46,059            | 1,654       | 1%                           | 82%                  |
| VLGW021D | ---                | 1997           | 63.8                       | 4.9                 | 12.0                | 1,624,199                  | 45,992            | 1,651       | 1%                           | 82%                  |
| HLGW024B | 171                | 2016           | 57.1                       | 8.0                 | 8.0                 | 1,599,750                  | 45,300            | 1,626       | 1%                           | 83%                  |
| HLGW051B | 179                | 2017           | 53.2                       | 5.7                 | 12.0                | 1,590,876                  | 45,049            | 1,617       | 1%                           | 84%                  |
| HLGW050B | 179                | 2018           | 54.5                       | 5.2                 | 12.0                | 1,481,124                  | 41,941            | 1,506       | 1%                           | 84%                  |
| HLGW034B | 171                | 2014           | 43.7                       | 5.9                 | 12.0                | 1,355,703                  | 38,389            | 1,378       | 1%                           | 85%                  |
| HLGW040B | 175                | 2018           | 55.5                       | 4.4                 | 12.0                | 1,279,613                  | 36,235            | 1,301       | 0%                           | 85%                  |
| VLGW016D | ---                | 1997           | 66.6                       | 3.6                 | 12.0                | 1,259,803                  | 35,674            | 1,281       | 0%                           | 86%                  |
| VLGW015D | ---                | 1997           | 70.5                       | 3.2                 | 12.0                | 1,195,068                  | 33,841            | 1,215       | 0%                           | 86%                  |
| HLGW036B | 175                | 2017           | 54.8                       | 6.0                 | 8.0                 | 1,151,484                  | 32,607            | 1,171       | 0%                           | 86%                  |
| HLGW0055 | 151(3)             | 2018           | 54.2                       | 4.4                 | 11.0                | 1,136,123                  | 32,172            | 1,155       | 0%                           | 87%                  |
| VLGW027D | ---                | 1997           | 70.6                       | 3.3                 | 11.0                | 1,128,500                  | 31,956            | 1,147       | 0%                           | 87%                  |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| VLGW003D | ---                | 1996           | 70.3                       | 3.1                 | 12.0                | 1,125,947                  | 31,883            | 1,145       | 0%                           | 88%                  |
| HLGW0052 | 151(3)             | 2018           | 49.6                       | 6.4                 | 8.0                 | 1,102,737                  | 31,226            | 1,121       | 0%                           | 88%                  |
| VLGW003S | ---                | 1996           | 70.2                       | 3.0                 | 12.0                | 1,087,223                  | 30,787            | 1,105       | 0%                           | 89%                  |
| HLGW048A | 179                | 2017           | 50.9                       | 4.1                 | 12.0                | 1,084,600                  | 30,713            | 1,103       | 0%                           | 89%                  |
| VLGW024D | ---                | 1997           | 65.3                       | 3.1                 | 12.0                | 1,069,080                  | 30,273            | 1,087       | 0%                           | 89%                  |
| VLGW029D | ---                | 1997           | 68.4                       | 3.2                 | 11.0                | 1,065,821                  | 30,181            | 1,083       | 0%                           | 90%                  |
| HLGW027A | 171                | 2017           | 44.0                       | 4.4                 | 12.0                | 1,022,395                  | 28,951            | 1,039       | 0%                           | 90%                  |
| VLGW019S | ---                | 1997           | 60.5                       | 3.2                 | 12.0                | 1,019,652                  | 28,873            | 1,037       | 0%                           | 91%                  |
| VLGW021S | ---                | 1997           | 67.3                       | 2.7                 | 12.0                | 959,723                    | 27,176            | 976         | 0%                           | 91%                  |
| HLGW043A | 175                | 2017           | 56.5                       | 3.4                 | 11.0                | 917,020                    | 25,967            | 932         | 0%                           | 91%                  |
| VLGW018D | ---                | 1997           | 61.2                       | 2.8                 | 12.0                | 888,363                    | 25,156            | 903         | 0%                           | 92%                  |
| HLGW042A | 175                | 2017           | 52.1                       | 3.9                 | 10.0                | 887,034                    | 25,118            | 902         | 0%                           | 92%                  |
| LHGW0013 | 151                | 2011           | 45.1                       | 4.0                 | 11.0                | 877,472                    | 24,847            | 892         | 0%                           | 92%                  |
| VLGW007D | ---                | 1996           | 72.9                       | 2.2                 | 12.0                | 856,323                    | 24,248            | 871         | 0%                           | 93%                  |
| HLGW0063 | 155(3)             | 2019           | 54.0                       | 2.9                 | 12.0                | 831,452                    | 23,544            | 845         | 0%                           | 93%                  |
| VLGW032S | ---                | 1997           | 62.0                       | 2.4                 | 12.0                | 787,692                    | 22,305            | 801         | 0%                           | 93%                  |
| VLGW026S | ---                | 1997           | 58.6                       | 2.4                 | 12.0                | 733,877                    | 20,781            | 746         | 0%                           | 93%                  |
| HLGW0054 | 151(3)             | 2018           | 53.5                       | 2.6                 | 12.0                | 721,903                    | 20,442            | 734         | 0%                           | 94%                  |
| VLGW008S | ---                | 1996           | 68.2                       | 2.0                 | 12.0                | 701,255                    | 19,857            | 713         | 0%                           | 94%                  |
| VLGW023S | ---                | 1997           | 61.8                       | 2.3                 | 11.0                | 689,359                    | 19,521            | 701         | 0%                           | 94%                  |
| VLGW007S | ---                | 1996           | 69.5                       | 1.8                 | 12.0                | 663,963                    | 18,801            | 675         | 0%                           | 94%                  |
| VLGW017S | ---                | 1997           | 70.8                       | 1.7                 | 12.0                | 615,288                    | 17,423            | 625         | 0%                           | 95%                  |
| VLGW018S | ---                | 1997           | 58.5                       | 2.0                 | 12.0                | 604,027                    | 17,104            | 614         | 0%                           | 95%                  |
| VLGW031S | ---                | 1997           | 57.3                       | 3.0                 | 8.0                 | 593,537                    | 16,807            | 603         | 0%                           | 95%                  |
| VLGW0059 | ---                | 2011           | 54.7                       | 2.5                 | 10.0                | 591,778                    | 16,757            | 602         | 0%                           | 95%                  |
| VLGW013S | ---                | 1997           | 60.2                       | 2.2                 | 10.0                | 584,554                    | 16,553            | 594         | 0%                           | 96%                  |
| HLGW039B | 175                | 2017           | 52.3                       | 2.5                 | 10.0                | 582,324                    | 16,490            | 592         | 0%                           | 96%                  |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| VLGW011S | ---                | 1996           | 49.6                       | 2.2                 | 12.0                | 569,069                    | 16,114            | 579         | 0%                           | 96%                  |
| HLGW029B | 171                | 2015           | 50.6                       | 3.2                 | 8.0                 | 564,284                    | 15,979            | 574         | 0%                           | 96%                  |
| VLGW012S | ---                | 1996           | 65.1                       | 1.9                 | 10.0                | 530,310                    | 15,017            | 539         | 0%                           | 96%                  |
| HLGW0058 | 155(3)             | 2019           | 35.5                       | 5.3                 | 6.0                 | 493,491                    | 13,974            | 502         | 0%                           | 97%                  |
| HLGW027B | 171                | 2015           | 43.3                       | 2.1                 | 12.0                | 479,193                    | 13,569            | 487         | 0%                           | 97%                  |
| VLGW001D | ---                | 1996           | 74.7                       | 1.2                 | 12.0                | 471,047                    | 13,339            | 479         | 0%                           | 97%                  |
| VLGW019D | ---                | 1997           | 62.4                       | 1.4                 | 12.0                | 467,107                    | 13,227            | 475         | 0%                           | 97%                  |
| VLGW042S | ---                | 2003           | 70.9                       | 5.0                 | 3.0                 | 465,558                    | 13,183            | 473         | 0%                           | 97%                  |
| VLGW026D | ---                | 1997           | 58.0                       | 1.5                 | 12.0                | 459,362                    | 13,008            | 467         | 0%                           | 98%                  |
| VLGW006S | ---                | 1996           | 69.0                       | 1.4                 | 10.0                | 433,133                    | 12,265            | 440         | 0%                           | 98%                  |
| VLGW016S | ---                | 1997           | 62.0                       | 1.2                 | 12.0                | 402,784                    | 11,406            | 409         | 0%                           | 98%                  |
| VLGW017D | ---                | 1997           | 67.2                       | 1.1                 | 11.0                | 352,477                    | 9,981             | 358         | 0%                           | 98%                  |
| VLGW004S | ---                | 1996           | 73.7                       | 1.4                 | 8.0                 | 348,439                    | 9,867             | 354         | 0%                           | 98%                  |
| VLGW023D | ---                | 1997           | 68.7                       | 1.2                 | 9.0                 | 328,237                    | 9,295             | 334         | 0%                           | 98%                  |
| VLGW005S | ---                | 1996           | 69.7                       | 1.2                 | 9.0                 | 325,992                    | 9,231             | 331         | 0%                           | 98%                  |
| VLGW006D | ---                | 1996           | 72.7                       | 1.0                 | 10.0                | 325,369                    | 9,213             | 331         | 0%                           | 98%                  |
| VLGW0055 | ---                | 2011           | 59.1                       | 1.0                 | 12.0                | 307,829                    | 8,717             | 313         | 0%                           | 99%                  |
| VLGW0050 | ---                | 2011           | 58.2                       | 1.0                 | 12.0                | 303,357                    | 8,590             | 308         | 0%                           | 99%                  |
| VLGW009D | ---                | 1996           | 62.9                       | 1.0                 | 11.0                | 290,645                    | 8,230             | 295         | 0%                           | 99%                  |
| HLGW032A | 171                | 2014           | 49.5                       | 1.2                 | 11.0                | 279,378                    | 7,911             | 284         | 0%                           | 99%                  |
| VLGW015S | ---                | 1997           | 65.4                       | 0.7                 | 12.0                | 254,608                    | 7,210             | 259         | 0%                           | 99%                  |
| VLGW029S | ---                | 1997           | 55.3                       | 1.0                 | 10.0                | 251,856                    | 7,132             | 256         | 0%                           | 99%                  |
| VLGW0054 | ---                | 2011           | 47.6                       | 0.9                 | 12.0                | 218,601                    | 6,190             | 222         | 0%                           | 99%                  |
| HLGW051A | 179                | 2017           | 45.3                       | 1.0                 | 10.0                | 207,165                    | 5,866             | 211         | 0%                           | 99%                  |
| VLGW0060 | ---                | 2011           | 53.9                       | 1.0                 | 8.0                 | 191,210                    | 5,415             | 194         | 0%                           | 99%                  |
| VLGW020S | ---                | 1997           | 59.2                       | 0.7                 | 10.0                | 168,479                    | 4,771             | 171         | 0%                           | 99%                  |
| HLGW065B | 159 (3)            | 2018           | 29.6                       | 1.1                 | 11.0                | 156,788                    | 4,440             | 159         | 0%                           | 99%                  |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| VLGW010S | ---                | 1996           | 53.9                       | 1.2                 | 5.0                 | 144,628                    | 4,095             | 147         | 0%                           | 99%                  |
| VLGW0056 | ---                | 2011           | 56.7                       | 0.5                 | 11.0                | 130,971                    | 3,709             | 133         | 0%                           | 100%                 |
| VLGW028S | ---                | 1997           | 60.8                       | 0.4                 | 11.0                | 108,278                    | 3,066             | 110         | 0%                           | 100%                 |
| RWHGW01A | 3                  | 2020           | 50.5                       | 0.4                 | 11.0                | 103,996                    | 2,945             | 106         | 0%                           | 100%                 |
| HLGW008B | 143                | 2006           | 41.4                       | 0.5                 | 11.0                | 96,095                     | 2,721             | 98          | 0%                           | 100%                 |
| HLGW0010 | 139                | 2008           | 33.7                       | 3.2                 | 2.0                 | 94,276                     | 2,670             | 96          | 0%                           | 100%                 |
| VLGW008D | ---                | 1996           | 50.0                       | 0.3                 | 11.0                | 81,846                     | 2,318             | 83          | 0%                           | 100%                 |
| VLGW0052 | ---                | 2011           | 55.0                       | 0.3                 | 11.0                | 79,480                     | 2,251             | 81          | 0%                           | 100%                 |
| HLGW008A | 143                | 2006           | 42.2                       | 0.4                 | 12.0                | 79,405                     | 2,248             | 81          | 0%                           | 100%                 |
| HLGW030A | 171                | 2014           | 39.5                       | 0.4                 | 9.0                 | 68,494                     | 1,940             | 70          | 0%                           | 100%                 |
| HLGW022B | 165                | 2013           | 42.4                       | 0.3                 | 11.0                | 67,333                     | 1,907             | 68          | 0%                           | 100%                 |
| HLGW048B | 179                | 2018           | 31.5                       | 0.4                 | 10.0                | 60,616                     | 1,716             | 62          | 0%                           | 100%                 |
| HLGW049A | 179                | 2017           | 33.6                       | 0.4                 | 11.0                | 59,800                     | 1,693             | 61          | 0%                           | 100%                 |
| HLGW006A | 159                | 2005           | 37.2                       | 0.4                 | 8.0                 | 56,939                     | 1,612             | 58          | 0%                           | 100%                 |
| HLGW043B | 175                | 2017           | 40.0                       | 0.2                 | 12.0                | 49,656                     | 1,406             | 50          | 0%                           | 100%                 |
| VLGW0049 | ---                | 2011           | 56.3                       | 0.2                 | 11.0                | 48,783                     | 1,381             | 50          | 0%                           | 100%                 |
| HLGW050A | 179                | 2017           | 41.5                       | 0.2                 | 11.0                | 47,919                     | 1,357             | 49          | 0%                           | 100%                 |
| HLGW041A | 175                | 2017           | 26.8                       | 0.3                 | 10.0                | 38,701                     | 1,096             | 39          | 0%                           | 100%                 |
| HLGW031A | 171                | 2014           | 34.3                       | 0.2                 | 10.0                | 33,062                     | 936               | 34          | 0%                           | 100%                 |
| HLGW033B | 171                | 2014           | 31.1                       | 0.2                 | 11.0                | 26,941                     | 763               | 27          | 0%                           | 100%                 |
| RWHGW01B | 3                  | 2020           | 40.3                       | 0.1                 | 7.0                 | 15,878                     | 450               | 16          | 0%                           | 100%                 |
| HLGW065A | 159 (3)            | 2018           | #N/A                       | #N/A                | #N/A                |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW0004 | 147                | 2003           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW026B | 171                | 2015           | 27.7                       | 0.0                 | 7.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW0053 | ---                | 2011           | 45.7                       | 0.0                 | 11.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0060 | 155(3)             | 2019           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW067B | 159 (3)            | 2018           | 20.8                       | 0.0                 | 6.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |



Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| HLGW023B | 165                | 2013           | 25.7                       | 0.0                 | 6.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW023B | 165                | 2013           | 25.7                       | 0.0                 | 6.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW044B | 179                | 2017           | 41.8                       | 0.0                 | 11.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0013 | 147                | 2010           | 32.2                       | 0.0                 | 3.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| LHGW0019 | ---                | 2014           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW0058 | ---                | 2011           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0023 | 159                | 2011           | 11.3                       | 0.0                 | 1.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0003 | 139                | 2003           | 43.7                       | 0.0                 | 1.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| LHGW0022 | 159                | 2014           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW045B | 179                | 2018           | 24.1                       | 0.0                 | 5.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0014 | 155                | 2011           | 8.2                        | 0.0                 | 2.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0001 | 139                | 2001           | 29.2                       | 0.0                 | 1.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW047B | 179                | 2018           | 27.7                       | 0.0                 | 8.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0012 | 147                | 2010           | 42.0                       | 0.0                 | 3.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW009S | ---                | 1996           | 45.8                       | 0.0                 | 11.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0005 | 147                | 2003           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW0009 | 139                | 2008           | ---                        | ---                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW0011 | 0                  | 2008           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW0015 | 155                | 2011           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW006B | 159                | 2005           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW016A | 159                | 2012           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW017A | 163                | 2013           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW017B | 163                | 2012           | 8.4                        | 0.0                 | 2.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW019B | 165                | 2013           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW019C | 165                | 2012           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW020B | 165                | 2013           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0003 | 147                | 2003           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| LHGW0004 | 147                | 2003           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0006 | 143                | 2009           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0007 | 143                | 2009           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0008 | 143                | 2009           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0009 | 143                | 2012           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0010 | 143                | 2012           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0017 | 163                | 2012           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0020 | 159                | 2014           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW0021 | 159                | 2014           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| LHGW002A | 147                | 2007           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW001S | ---                | 1996           | 51.6                       | 0.0                 | 9.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW002D | ---                | 1996           | ---                        | ---                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW002S | ---                | 1996           | ---                        | ---                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW004D | ---                | 1996           | 0.1                        | 0.0                 | 0.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW0057 | ---                | 2011           | 29.3                       | 0.0                 | 1.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW005D | ---                | 1996           | 77.6                       | 0.0                 | 11.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW013D | ---                | 1997           | 53.0                       | 0.0                 | 10.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW014D | ---                | 1997           | ---                        | ---                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW014S | ---                | 1997           | ---                        | ---                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW020D | ---                | 1997           | 57.3                       | 0.0                 | 10.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW022D | ---                | 1997           | 59.1                       | 0.0                 | 7.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW022S | ---                | 1997           | 43.8                       | 0.0                 | 9.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW024S | ---                | 1997           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| VLGW025D | ---                | 1997           | 69.7                       | 0.0                 | 6.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW025S | ---                | 1997           | 69.7                       | 0.0                 | 6.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW027S | ---                | 1997           | 60.1                       | 0.0                 | 9.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW030S | ---                | 1997           | 44.9                       | 0.0                 | 10.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |

Appendix B3, continued

| Name     | Refuse Lift (mASL) | Year Activated | Average Methane (% by vol) | Average Flow (scfm) | Months in Operation | Methane Annual Flow (scfm) | Methane Flow (m3) | Energy (GJ) | Well Production (% of Total) | Cumulative Total (%) |
|----------|--------------------|----------------|----------------------------|---------------------|---------------------|----------------------------|-------------------|-------------|------------------------------|----------------------|
| VLGW033S | ---                | 1997           | 47.4                       | 0.0                 | 8.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW034S | ---                | 1997           | 40.8                       | 0.0                 | 8.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW043S | ---                | 2003           | 64.8                       | 0.0                 | 3.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| VLGW047S | ---                | 2003           | 0.0                        | 0.0                 | 0.0                 |                            | 0                 | 0           | 0%                           | 100%                 |
| HLGW046B | 179                | 2018           | 8.3                        | 0.0                 | 4.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW0056 | 151(3)             | 2018           | 12.4                       | 0.0                 | 7.0                 | 0                          | 0                 | 0           | 0%                           | 100%                 |
| HLGW066A | 159 (3)            | 2018           | 39.8                       | 0.2                 | 11.0                | 0                          | 0                 | 0           | 0%                           | 100%                 |

## **APPENDIX C**

### **Hartland Landfill Gas Collection Data**

C1 Hartland Landfill Gas Collection Data



Appendix C1 Hartland Landfill Gas Collection Data

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 1-Jan-22  | 54.87             | 0.43             | -34.02                | 85.20            | 341.38           | -                      | 770,306                        | 691,791  | 1,462,097 |          |
| 2-Jan-22  | 52.83             | 0.38             | -33.77                | 131.86           | 358.70           | -                      | 749,046                        | 701,990  | 1,451,036 |          |
| 3-Jan-22  | 50.36             | 0.28             | -33.81                | 205.78           | 316.16           | -                      | 753,063                        | 728,349  | 1,481,412 |          |
| 4-Jan-22  | 54.95             | 0.36             | -34.38                | 82.06            | 353.69           | -                      | 792,256                        | 737,057  | 1,529,313 |          |
| 5-Jan-22  | 54.95             | 0.36             | -32.76                | 715.42           | 208.93           | -                      | 1,012,975                      | 531,520  | 1,544,495 |          |
| 6-Jan-22  | 53.85             | 0.39             | -32.41                | 691.29           | 200.38           | -                      | 871,743                        | 730,249  | 1,601,992 |          |
| 7-Jan-22  | 53.29             | 0.46             | -33.80                | 347.45           | 268.42           | -                      | 838,496                        | 756,439  | 1,594,935 |          |
| 8-Jan-22  | 54.72             | 0.46             | -34.13                | 82.93            | 334.24           | -                      | 821,963                        | 751,089  | 1,573,052 |          |
| 9-Jan-22  | 55.00             | 0.46             | -34.13                | 85.91            | 326.43           | -                      | 825,652                        | 754,329  | 1,579,981 |          |
| 10-Jan-22 | 55.48             | 0.46             | -34.13                | 87.56            | 334.93           | -                      | 820,120                        | 767,795  | 1,587,915 |          |
| 11-Jan-22 | 56.10             | 0.40             | -33.50                | 88.50            | 338.90           | -                      | 816,333                        | 756,883  | 1,573,216 |          |
| 12-Jan-22 | 54.84             | 0.48             | -34.52                | 87.01            | 351.81           | -                      | 816,788                        | 762,675  | 1,579,463 |          |
| 13-Jan-22 | 53.76             | 0.47             | -34.53                | 88.74            | 321.97           | 369,497                | 631,921                        | 562,370  | 1,563,788 |          |
| 14-Jan-22 | 54.08             | 0.47             | -34.52                | 86.61            | 338.77           | -                      | 842,748                        | 723,370  | 1,566,118 |          |
| 15-Jan-22 | 54.57             | 0.47             | -34.49                | 88.11            | 331.79           | -                      | 823,900                        | 737,049  | 1,560,949 |          |
| 16-Jan-22 | 54.69             | 0.48             | -33.49                | 86.62            | 334.53           | -                      | 806,473                        | 737,785  | 1,544,258 |          |
| 17-Jan-22 | 51.06             | 0.49             | -32.97                | 435.97           | 247.68           | -                      | 781,078                        | 739,375  | 1,520,453 |          |
| 18-Jan-22 | 52.83             | 0.48             | -33.51                | 90.15            | 312.36           | -                      | 735,144                        | 733,794  | 1,468,938 |          |
| 19-Jan-22 | 53.20             | 0.47             | -33.53                | 84.23            | 372.10           | -                      | 726,107                        | 722,145  | 1,448,252 |          |
| 20-Jan-22 | 51.68             | 0.45             | -33.54                | 85.92            | 315.97           | -                      | 773,421                        | 737,898  | 1,511,319 |          |
| 21-Jan-22 | 52.66             | 0.44             | -33.52                | 81.76            | 343.15           | -                      | 787,739                        | 749,556  | 1,537,295 |          |
| 22-Jan-22 | 53.35             | 0.47             | -33.54                | 83.34            | 348.51           | -                      | 763,057                        | 755,109  | 1,518,166 |          |
| 23-Jan-22 | 53.21             | 0.47             | -33.53                | 84.09            | 341.83           | 508,219                | 553,444                        | 416,690  | 1,478,353 |          |
| 24-Jan-22 | 52.98             | 0.48             | -33.53                | 83.77            | 326.15           | 1,215,624              | 153,119                        | 445,553  | 1,814,296 |          |
| 25-Jan-22 | 52.98             | 0.46             | -33.52                | 79.22            | 323.84           | 1,311,393              | 124,051                        | 748,800  | 2,184,244 |          |
| 26-Jan-22 | 53.13             | 0.36             | -33.26                | 77.51            | 325.18           | -                      | 817,889                        | 750,284  | 1,568,173 |          |
| 27-Jan-22 | 54.06             | 0.40             | -33.50                | 83.18            | 331.60           | 225,103                | 679,457                        | 595,292  | 1,499,852 |          |
| 28-Jan-22 | 55.42             | 0.45             | -33.48                | 86.70            | 310.22           | 98,395                 | 682,837                        | 682,994  | 1,464,226 |          |
| 29-Jan-22 | 56.50             | 0.29             | -33.48                | 86.28            | 352.74           | -                      | 774,374                        | 733,511  | 1,507,885 |          |
| 30-Jan-22 | 54.59             | -0.09            | -33.48                | 80.49            | 353.41           | -                      | 745,973                        | 756,118  | 1,502,091 |          |
| 31-Jan-22 | 53.96             | 0.39             | -33.41                | 83.79            | 263.97           | -                      | 804,361                        | 829,017  | 1,633,378 |          |
| 1-Feb-22  | 56.96             | 0.39             | -33.41                | 83.79            | 263.97           | -                      | 1,069,395                      | 447,355  | 1,516,750 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments                                                                           |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|------------------------------------------------------------------------------------|
| 2-Feb-22  | 57.13             | 0.40             | -33.46                | 84.14            | 318.98           | -                      | 819,835                        | 726,293  | 1,546,128 |                                                                                    |
| 3-Feb-22  | 56.71             | 0.38             | -33.41                | 86.25            | 317.69           | -                      | 825,686                        | 746,967  | 1,572,653 |                                                                                    |
| 4-Feb-22  | 57.40             | 0.37             | -33.49                | ---              | 356.21           | -                      | 831,049                        | 742,421  | 1,573,470 |                                                                                    |
| 5-Feb-22  | 56.05             | 0.37             | -33.49                | ---              | 328.20           | -                      | 828,569                        | 754,757  | 1,583,326 |                                                                                    |
| 6-Feb-22  | 57.28             | 0.36             | -33.48                | ---              | 300.59           | -                      | 942,144                        | 630,205  | 1,572,349 |                                                                                    |
| 7-Feb-22  | 56.30             | 0.20             | ---                   | ---              | ---              | -                      | 968,647                        | 596,332  | 1,564,979 |                                                                                    |
| 8-Feb-22  | 56.48             | 0.36             | -33.50                | 86.64            | 350.35           | -                      | 831,345                        | 747,385  | 1,578,730 |                                                                                    |
| 9-Feb-22  | 56.59             | 0.33             | -33.51                | 89.57            | 342.24           | -                      | 854,403                        | 731,635  | 1,586,038 |                                                                                    |
| 10-Feb-22 | 57.12             | 0.34             | -33.51                | 88.91            | 362.60           | -                      | 862,939                        | 737,610  | 1,600,549 |                                                                                    |
| 11-Feb-22 | 57.27             | 0.34             | -33.50                | 83.86            | 366.42           | -                      | 881,039                        | 734,315  | 1,615,354 |                                                                                    |
| 12-Feb-22 | 57.75             | 0.33             | -33.51                | 82.39            | 358.28           | -                      | 942,830                        | 672,491  | 1,615,321 |                                                                                    |
| 13-Feb-22 | 58.36             | 0.35             | -33.50                | 86.18            | 334.43           | -                      | 1,012,293                      | 591,587  | 1,603,880 |                                                                                    |
| 14-Feb-22 | 58.47             | 0.39             | -33.29                | 86.05            | 320.21           | -                      | 918,671                        | 695,009  | 1,613,680 |                                                                                    |
| 15-Feb-22 | 56.33             | 0.44             | -33.40                | 87.03            | 365.16           | -                      | 885,881                        | 763,503  | 1,649,384 |                                                                                    |
| 16-Feb-22 | 55.86             | 0.50             | -33.51                | 82.90            | 423.92           | -                      | 779,867                        | 747,879  | 1,527,746 |                                                                                    |
| 17-Feb-22 | 57.79             | 0.34             | -33.48                | 87.49            | 273.00           | -                      | 1,392,030                      | 60,586   | 1,452,616 | ---                                                                                |
| 18-Feb-22 | 57.77             | 0.36             | -33.50                | 88.16            | 299.30           | -                      | 1,159,391                      | 367,513  | 1,526,904 | ---                                                                                |
| 19-Feb-22 | 59.24             | 0.37             | -33.50                | 85.88            | 382.70           | -                      | 936,861                        | 608,082  | 1,544,943 | ---                                                                                |
| 20-Feb-22 | 58.97             | 0.39             | -33.50                | 84.72            | 374.63           | -                      | 925,426                        | 616,337  | 1,541,763 | ---                                                                                |
| 21-Feb-22 | 58.25             | 0.41             | -33.50                | 78.86            | 379.99           | -                      | 1,318,243                      | 189,732  | 1,507,975 | ---                                                                                |
| 22-Feb-22 | 56.30             | 0.30             | -33.16                | 1,424.74         | 302.61           | 726,931                | 776,358                        | 4,038    | 1,507,327 | ---                                                                                |
| 23-Feb-22 | 56.80             | 0.20             | -33.48                | 1,550.83         | 29.28            | 1,536,939              | -                              | -        | 1,536,939 | Ground flare running- gas concentration measurements replaced with manual readings |
| 24-Feb-22 | 56.00             | 0.20             | -33.48                | 1,550.74         | 27.52            | 1,564,645              | -                              | -        | 1,564,645 | Ground flare running- gas concentration measurements replaced with manual readings |
| 25-Feb-22 | 57.50             | 0.20             | -33.47                | 1,552.04         | 30.40            | 1,569,560              | -                              | -        | 1,569,560 | Ground flare running- gas concentration measurements replaced with manual readings |
| 26-Feb-22 | ---               | ---              | -33.47                | 1,548.50         | 34.49            | 1,543,943              | -                              | -        | 1,543,943 | Ground flare running- gas concentration measurements replaced with manual readings |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments                                                                                                                                 |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|
| 27-Feb-22 | ---               | ---              | -33.42                | 1,553.23         | 31.24            | 1,553,772              | -                              | -        | 1,553,772 | Ground flare running- No manual readings taken on weekend                                                                                |
| 28-Feb-22 | 58.40             | 0.20             | -33.50                | 1,547.60         | 33.00            | 1,553,772              | -                              | -        | 1,553,772 | Total flow biased high due to leak, replaced with average of preceding 4 days. Ground flare running- No manual readings taken on weekend |
| 1-Mar-22  | 58.10             | 0.10             | -33.48                | 1,551.88         | 29.56            | 1,501,287              | -                              | -        | 1,501,287 |                                                                                                                                          |
| 2-Mar-22  | 58.60             | 0.10             | -33.48                | 1,550.25         | 33.41            | 1,507,318              | -                              | -        | 1,507,318 | N/A                                                                                                                                      |
| 3-Mar-22  | 57.50             | 0.10             | -33.48                | 1,550.66         | 30.60            | 1,529,178              | -                              | -        | 1,529,178 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 4-Mar-22  | 57.70             | 0.10             | -33.47                | 1,552.48         | 27.91            | 1,530,604              | -                              | -        | 1,530,604 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 5-Mar-22  | 57.40             | 0.10             | -33.47                | 1,546.98         | 27.35            | 1,539,267              | -                              | -        | 1,539,267 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 6-Mar-22  | ---               | ---              | -33.47                | 1,549.68         | 28.35            | 1,548,203              | -                              | -        | 1,548,203 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 7-Mar-22  | 58.20             | 0.10             | -33.47                | 1,552.56         | 33.00            | 1,561,254              | -                              | -        | 1,561,254 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 8-Mar-22  | 58.90             | 0.10             | -33.47                | 1,550.90         | 31.51            | 1,566,375              | -                              | -        | 1,566,375 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 9-Mar-22  | 58.20             | 0.10             | -33.47                | 1,549.80         | 27.44            | 1,559,341              | -                              | -        | 1,559,341 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |
| 10-Mar-22 | 58.10             | 0.20             | -33.48                | 1,551.17         | 32.56            | 1,560,691              | -                              | -        | 1,560,691 | Ground flare running- gas concentration measurements replaced with manual readings                                                       |



Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments                                                                           |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|------------------------------------------------------------------------------------|
| 11-Mar-22 | 58.20             | 0.10             | -33.48                | 1,550.16         | 32.04            | 1,570,234              | -                              | -        | 1,570,234 | Ground flare running- gas concentration measurements replaced with manual readings |
| 12-Mar-22 | 59.80             | 0.00             | -32.87                | 1,358.59         | 221.00           | 838,838                | 708,080                        | 77,534   | 1,624,452 | Ground flare running- gas concentration measurements replaced with manual readings |
| 13-Mar-22 | 51.14             | 0.08             | -33.07                | 91.16            | 259.16           | -                      | 1,475,048                      | 42,725   | 1,517,773 | Ground flare running- gas concentration measurements replaced with manual readings |
| 14-Mar-22 | 55.70             | 0.06             | -33.17                | 89.20            | 270.65           | -                      | 1,376,938                      | 223,158  | 1,600,096 | ---                                                                                |
| 15-Mar-22 | 58.07             | 0.07             | -33.50                | 85.68            | 323.00           | -                      | 1,134,219                      | 456,007  | 1,590,226 | ---                                                                                |
| 16-Mar-22 | 56.93             | 0.04             | -33.50                | 86.32            | 290.86           | -                      | 1,029,952                      | 546,055  | 1,576,007 | ---                                                                                |
| 17-Mar-22 | 58.11             | 0.03             | -33.49                | 88.50            | 263.78           | -                      | 1,054,885                      | 532,660  | 1,587,545 | ---                                                                                |
| 18-Mar-22 | 58.62             | 0.03             | -33.50                | 89.73            | 286.97           | -                      | 1,065,306                      | 523,744  | 1,589,050 | ---                                                                                |
| 19-Mar-22 | 58.09             | 0.06             | -33.49                | 80.49            | 339.97           | -                      | 1,045,953                      | 523,196  | 1,569,149 | ---                                                                                |
| 20-Mar-22 | 57.12             | 0.06             | -33.50                | 85.11            | 292.53           | -                      | 1,044,961                      | 534,032  | 1,578,993 | ---                                                                                |
| 21-Mar-22 | 57.12             | 0.05             | -33.49                | 87.88            | 286.54           | -                      | 1,195,086                      | 391,645  | 1,586,731 | ---                                                                                |
| 22-Mar-22 | 57.33             | 0.03             | -33.50                | 90.13            | 356.09           | -                      | 854,106                        | 755,069  | 1,609,175 | ---                                                                                |
| 23-Mar-22 | 58.25             | 0.04             | -33.49                | 88.36            | 396.60           | -                      | 837,630                        | 739,306  | 1,576,936 | ---                                                                                |
| 24-Mar-22 | 58.44             | 0.02             | -33.50                | 85.08            | 424.84           | -                      | 815,774                        | 734,588  | 1,550,362 | ---                                                                                |
| 25-Mar-22 | 58.58             | 0.04             | -33.51                | 89.26            | 395.48           | -                      | 823,226                        | 736,761  | 1,559,987 | ---                                                                                |
| 26-Mar-22 | 58.97             | 0.06             | -32.83                | 88.12            | 374.26           | -                      | 809,090                        | 737,266  | 1,546,356 | ---                                                                                |
| 27-Mar-22 | 59.68             | 0.06             | -31.19                | 89.91            | 404.68           | -                      | 766,762                        | 732,981  | 1,499,743 | ---                                                                                |
| 28-Mar-22 | 58.94             | 0.06             | -31.05                | 90.84            | 387.42           | -                      | 772,568                        | 739,234  | 1,511,802 | ---                                                                                |
| 29-Mar-22 | 58.07             | 0.06             | -32.11                | 89.97            | 412.13           | -                      | 788,665                        | 736,456  | 1,525,121 | ---                                                                                |
| 30-Mar-22 | 58.20             | 0.05             | -33.21                | 84.64            | 405.82           | -                      | 841,084                        | 685,663  | 1,526,747 | ---                                                                                |
| 31-Mar-22 | 58.20             | 0.10             | -32.80                | 86.60            | 375.00           | -                      | 811,939                        | 784,361  | 1,596,300 | ---                                                                                |
| 1-Apr-22  | 59.41             | 0.06             | -32.36                | 88.76            | 358.87           | -                      | 822,891                        | 724,138  | 1,547,029 | N/A                                                                                |
| 2-Apr-22  | 59.82             | 0.06             | -33.07                | 86.86            | 384.81           | -                      | 841,688                        | 715,470  | 1,557,158 | ---                                                                                |
| 3-Apr-22  | 61.37             | 0.03             | -33.00                | 88.03            | 327.25           | -                      | 843,943                        | 707,154  | 1,551,097 | ---                                                                                |
| 4-Apr-22  | 60.76             | 0.07             | -32.89                | 81.86            | 457.05           | -                      | 843,530                        | 662,034  | 1,505,564 | ---                                                                                |
| 5-Apr-22  | 58.37             | 0.11             | -33.50                | 81.96            | 378.11           | -                      | 1,266,785                      | 219,126  | 1,485,911 | ---                                                                                |
| 6-Apr-22  | 59.38             | 0.02             | -33.50                | 85.56            | 333.44           | -                      | 1,267,909                      | 235,914  | 1,503,823 | ---                                                                                |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 7-Apr-22  | 60.77             | 0.03             | -32.95                | 88.73            | 376.83           | -                      | 1,026,868                      | 502,221  | 1,529,089 | ---      |
| 8-Apr-22  | 60.33             | 0.04             | -33.44                | 86.66            | 407.54           | -                      | 899,930                        | 669,713  | 1,569,643 | ---      |
| 9-Apr-22  | 60.00             | 0.03             | -33.20                | 83.71            | 336.07           | -                      | 1,244,105                      | 308,126  | 1,552,231 | ---      |
| 10-Apr-22 | 58.10             | 0.03             | -33.02                | 1,417.84         | 188.95           | 1,018,248              | 522,128                        | 22,731   | 1,563,107 | ---      |
| 11-Apr-22 | 58.70             | 0.01             | -33.47                | 1,551.13         | 28.58            | 1,543,140              | -                              | 15,708   | 1,558,848 | ---      |
| 12-Apr-22 | 58.30             | 0.01             | -33.48                | 1,548.97         | 32.39            | 1,573,892              | -                              | 9,974    | 1,583,866 | ---      |
| 13-Apr-22 | 57.70             | 0.00             | -33.48                | 1,550.86         | 32.55            | 1,597,712              | -                              | 13,964   | 1,611,676 | ---      |
| 14-Apr-22 | 55.80             | 0.10             | -31.09                | 1,020.65         | 387.07           | 581,410                | 616,531                        | 297,632  | 1,495,573 | ---      |
| 15-Apr-22 | ---               | 0.04             | -33.51                | 85.84            | 422.98           | -                      | 775,761                        | 738,550  | 1,514,311 | ---      |
| 16-Apr-22 | 58.70             | 0.06             | -33.53                | 83.12            | 434.05           | -                      | 768,582                        | 735,766  | 1,504,348 | ---      |
| 17-Apr-22 | ---               | 0.04             | -33.51                | 85.14            | 457.39           | -                      | 771,344                        | 740,151  | 1,511,495 | ---      |
| 18-Apr-22 | ---               | 0.04             | -34.04                | 87.74            | 415.25           | -                      | 786,498                        | 722,972  | 1,509,470 | ---      |
| 19-Apr-22 | 57.40             | 0.05             | -34.41                | 85.97            | 409.70           | -                      | 810,637                        | 740,959  | 1,551,596 | ---      |
| 20-Apr-22 | 59.00             | 0.39             | -32.97                | 742.86           | 393.59           | 103,007                | 762,264                        | 660,625  | 1,525,896 | ---      |
| 21-Apr-22 | 58.09             | 0.19             | -33.38                | 88.79            | 394.52           | -                      | 797,986                        | 742,015  | 1,540,001 | ---      |
| 22-Apr-22 | 57.14             | 0.19             | -33.50                | 88.87            | 373.37           | -                      | 788,475                        | 739,325  | 1,527,800 |          |
| 23-Apr-22 | 57.86             | 0.19             | -33.61                | 88.97            | 388.06           | -                      | 797,460                        | 741,701  | 1,539,161 |          |
| 24-Apr-22 | 59.47             | 0.19             | -34.04                | 89.57            | 423.50           | -                      | 812,570                        | 735,761  | 1,548,331 |          |
| 25-Apr-22 | 59.69             | 0.21             | -32.93                | 86.74            | 390.68           | -                      | 820,802                        | 701,489  | 1,522,291 |          |
| 26-Apr-22 | ---               | 0.25             | -32.55                | 1,098.57         | 371.69           | 394,003                | 625,879                        | 527,336  | 1,547,218 |          |
| 27-Apr-22 | 59.13             | 0.23             | -33.51                | 86.49            | 400.16           | -                      | 823,431                        | 747,143  | 1,570,574 |          |
| 28-Apr-22 | 59.37             | 0.23             | -33.52                | 88.49            | 388.78           | -                      | 824,435                        | 745,424  | 1,569,859 |          |
| 29-Apr-22 | 58.93             | 0.25             | -33.51                | 90.92            | 431.17           | -                      | 821,448                        | 744,036  | 1,565,484 |          |
| 30-Apr-22 | 59.80             | 0.20             | -33.50                | 90.30            | 383.20           | -                      | 811,776                        | 767,038  | 1,578,814 |          |
| 1-May-22  | 59.69             | 0.23             | -33.49                | 91.10            | 361.64           | -                      | 816,603                        | 736,672  | 1,553,275 |          |
| 2-May-22  | 59.92             | 0.25             | -33.46                | 92.74            | 402.92           | -                      | 812,284                        | 742,142  | 1,554,426 |          |
| 3-May-22  | 58.44             | 0.25             | -33.50                | 89.41            | 386.79           | -                      | 816,348                        | 753,373  | 1,569,721 |          |
| 4-May-22  | 59.90             | 0.21             | -33.49                | 90.77            | 408.86           | -                      | 842,824                        | 725,319  | 1,568,143 |          |
| 5-May-22  | 60.09             | 0.24             | -33.37                | 88.27            | 390.30           | -                      | 818,603                        | 735,251  | 1,553,854 |          |
| 6-May-22  | 59.13             | 0.25             | -32.32                | 89.03            | 416.82           | -                      | 821,362                        | 738,925  | 1,560,287 |          |
| 7-May-22  | 58.17             | 0.28             | -31.85                | 87.94            | 400.83           | -                      | 834,486                        | 744,905  | 1,579,391 |          |
| 8-May-22  | 58.31             | 0.26             | -31.74                | 86.71            | 412.64           | -                      | 836,619                        | 740,828  | 1,577,447 |          |
| 9-May-22  | 57.48             | 0.28             | -32.57                | 90.13            | 390.24           | -                      | 834,496                        | 740,767  | 1,575,263 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 10-May-22 | 55.96             | 0.26             | -33.48                | 89.29            | 408.48           | -                      | 816,894                        | 750,193  | 1,567,087 |          |
| 11-May-22 | 57.19             | 0.26             | -33.00                | 88.76            | 425.47           | -                      | 788,885                        | 743,561  | 1,532,446 |          |
| 12-May-22 | 58.22             | 0.27             | -32.57                | 89.01            | 381.66           | -                      | 793,468                        | 734,761  | 1,528,229 |          |
| 13-May-22 | 56.92             | 0.28             | -33.02                | 89.11            | 426.43           | -                      | 813,313                        | 747,132  | 1,560,445 |          |
| 14-May-22 | 58.31             | 0.25             | -32.74                | 91.22            | 389.30           | -                      | 805,381                        | 745,135  | 1,550,516 |          |
| 15-May-22 | 59.19             | 0.23             | -32.60                | 92.16            | 377.09           | -                      | 819,209                        | 728,502  | 1,547,711 |          |
| 16-May-22 | 57.73             | 0.28             | -33.03                | 89.76            | 416.89           | -                      | 879,616                        | 669,885  | 1,549,501 |          |
| 17-May-22 | 57.55             | 0.27             | -33.41                | 90.56            | 367.42           | -                      | 849,177                        | 719,705  | 1,568,882 |          |
| 18-May-22 | 58.50             | 0.20             | -30.33                | 844.65           | 400.09           | 173,799                | 723,394                        | 520,748  | 1,417,941 |          |
| 19-May-22 | 57.35             | 0.27             | -33.49                | 90.46            | 379.30           | -                      | 1,114,418                      | 444,010  | 1,558,428 |          |
| 20-May-22 | 57.00             | 0.00             | -31.86                | 1,018.15         | 373.71           | 147,517                | 745,955                        | 661,961  | 1,555,433 |          |
| 21-May-22 | 57.40             | 0.30             | -32.73                | 1,284.45         | 407.23           | 427,872                | 658,046                        | 474,693  | 1,560,611 |          |
| 22-May-22 | 56.74             | 0.34             | -33.39                | 95.40            | 336.51           | -                      | 878,971                        | 715,315  | 1,594,286 |          |
| 23-May-22 | 57.00             | 0.35             | -33.42                | 97.83            | 365.72           | -                      | 876,234                        | 714,351  | 1,590,585 |          |
| 24-May-22 | 57.80             | 0.39             | -33.47                | 95.22            | 297.62           | -                      | 868,683                        | 715,076  | 1,583,759 |          |
| 25-May-22 | 56.30             | 0.20             | -32.65                | 1,173.71         | 329.40           | 600,335                | 555,336                        | 399,925  | 1,555,596 |          |
| 26-May-22 | 57.00             | 0.40             | -32.73                | 1,250.17         | 323.96           | 505,243                | 583,187                        | 466,893  | 1,555,323 |          |
| 27-May-22 | 58.23             | 0.32             | -32.58                | 92.27            | 396.75           | -                      | 886,426                        | 606,837  | 1,493,263 |          |
| 28-May-22 | 58.95             | 0.29             | -32.20                | 92.46            | 392.98           | -                      | 928,505                        | 546,650  | 1,475,155 |          |
| 29-May-22 | 57.72             | 0.33             | -32.87                | 92.87            | 412.68           | -                      | 808,412                        | 658,080  | 1,466,492 |          |
| 30-May-22 | 56.80             | 0.30             | -33.50                | 93.80            | 378.60           | -                      | 822,943                        | 783,714  | 1,606,657 |          |
| 31-May-22 | 57.20             | 0.30             | -33.30                | 98.10            | 418.00           | -                      | 832,184                        | 793,551  | 1,625,735 |          |
| 1-Jun-22  | 57.99             | 0.25             | -32.76                | 98.95            | 370.86           | -                      | 825,697                        | 665,833  | 1,491,530 |          |
| 2-Jun-22  | 58.65             | 0.23             | -31.99                | 98.57            | 413.65           | -                      | 803,917                        | 661,847  | 1,465,764 |          |
| 3-Jun-22  | 59.14             | 0.28             | -32.01                | 98.62            | 388.09           | -                      | 797,953                        | 748,800  | 1,546,753 |          |
| 4-Jun-22  | 59.43             | 0.27             | -31.76                | 95.66            | 358.32           | -                      | 800,168                        | 611,368  | 1,411,536 |          |
| 5-Jun-22  | 58.57             | 0.27             | -32.25                | 95.80            | 377.18           | -                      | 800,570                        | 648,000  | 1,448,570 |          |
| 6-Jun-22  | 56.67             | 0.33             | -33.48                | 95.96            | 365.50           | -                      | 794,759                        | 648,000  | 1,442,759 |          |
| 7-Jun-22  | 58.42             | 0.22             | -32.80                | 95.60            | 427.75           | -                      | 804,975                        | 648,000  | 1,452,975 |          |
| 8-Jun-22  | 57.72             | 0.24             | -31.98                | 98.12            | 385.21           | -                      | 822,859                        | 662,518  | 1,485,377 |          |
| 9-Jun-22  | 59.01             | 0.24             | -32.11                | 96.51            | 344.36           | -                      | 836,864                        | 750,240  | 1,587,104 |          |
| 10-Jun-22 | 58.43             | 0.26             | -31.81                | 95.71            | 363.55           | -                      | 824,016                        | 750,240  | 1,574,256 |          |
| 11-Jun-22 | 58.54             | 0.22             | -31.60                | 96.36            | 389.57           | -                      | 825,847                        | 750,240  | 1,576,087 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 12-Jun-22 | 59.01             | 0.25             | -31.66                | 94.11            | 410.09           | -                      | 825,097                        | 737,524  | 1,562,621 |          |
| 13-Jun-22 | 57.46             | 0.31             | -32.10                | 92.30            | 409.53           | -                      | 839,375                        | 737,280  | 1,576,655 |          |
| 14-Jun-22 | 56.98             | 0.26             | -31.24                | 91.83            | 386.08           | -                      | 834,921                        | 737,280  | 1,572,201 |          |
| 15-Jun-22 | 58.66             | 0.25             | -29.94                | 94.70            | 379.87           | -                      | 823,549                        | 737,280  | 1,560,829 |          |
| 16-Jun-22 | 58.23             | 0.27             | -28.90                | 95.22            | 362.20           | -                      | 818,118                        | 737,280  | 1,555,398 |          |
| 17-Jun-22 | 58.23             | 0.28             | -30.69                | 95.28            | 386.64           | -                      | 836,473                        | 737,280  | 1,573,753 |          |
| 18-Jun-22 | 57.75             | 0.26             | -32.12                | 95.38            | 405.52           | -                      | 802,214                        | 671,976  | 1,474,190 |          |
| 19-Jun-22 | 57.46             | 0.22             | -31.51                | 97.63            | 427.27           | -                      | 780,412                        | 753,421  | 1,533,833 |          |
| 20-Jun-22 | 57.05             | 0.21             | -31.98                | 97.62            | 340.83           | -                      | 898,312                        | 549,051  | 1,447,363 |          |
| 21-Jun-22 | 57.66             | 0.19             | -31.94                | 98.45            | 360.61           | -                      | 895,518                        | 598,048  | 1,493,566 |          |
| 22-Jun-22 | 57.98             | 0.18             | -29.71                | 99.58            | 441.43           | -                      | 804,877                        | 708,845  | 1,513,722 |          |
| 23-Jun-22 | 56.64             | 0.28             | -29.66                | 96.19            | 388.67           | -                      | 866,398                        | 701,778  | 1,568,176 |          |
| 24-Jun-22 | 55.10             | 0.20             | -33.13                | 97.45            | 387.61           | -                      | 835,867                        | 695,520  | 1,531,387 |          |
| 25-Jun-22 | 56.90             | 0.15             | -32.97                | 97.65            | 505.00           | -                      | 724,917                        | 695,987  | 1,420,904 |          |
| 26-Jun-22 | 57.66             | 0.17             | -32.71                | 98.36            | 499.71           | -                      | 689,510                        | 684,841  | 1,374,351 |          |
| 27-Jun-22 | 57.81             | 0.16             | -32.34                | 98.06            | 440.80           | -                      | 699,539                        | 652,578  | 1,352,117 |          |
| 28-Jun-22 | 58.75             | 0.24             | -31.75                | 98.11            | 422.98           | -                      | 748,224                        | 639,257  | 1,387,481 |          |
| 29-Jun-22 | 57.78             | 0.28             | -32.25                | 98.43            | 362.03           | -                      | 801,310                        | 737,371  | 1,538,681 |          |
| 30-Jun-22 | 57.80             | 0.20             | -31.50                | 97.80            | 395.30           | -                      | 806,408                        | 742,341  | 1,548,749 |          |
| 1-Jul-22  | 58.29             | 0.23             | -31.35                | 99.16            | 391.18           | -                      | 800,155                        | 758,880  | 1,559,035 |          |
| 2-Jul-22  | 58.61             | 0.20             | -31.30                | 97.60            | 387.11           | -                      | 800,034                        | 758,880  | 1,558,914 |          |
| 3-Jul-22  | 58.90             | 0.25             | -32.06                | 96.33            | 367.11           | -                      | 812,216                        | 756,106  | 1,568,322 |          |
| 4-Jul-22  | 58.28             | 0.25             | -31.98                | 94.77            | 338.14           | -                      | 836,763                        | 670,527  | 1,507,290 |          |
| 5-Jul-22  | 58.75             | 0.20             | -31.40                | 96.63            | 333.62           | -                      | 856,675                        | 622,972  | 1,479,647 |          |
| 6-Jul-22  | 58.66             | 0.21             | -32.04                | 98.80            | 394.57           | -                      | 828,187                        | 669,600  | 1,497,787 |          |
| 7-Jul-22  | 58.17             | 0.25             | -32.46                | 98.94            | 339.63           | -                      | 911,127                        | 630,149  | 1,541,276 |          |
| 8-Jul-22  | 57.71             | 0.21             | -32.91                | 99.93            | 370.26           | -                      | 840,669                        | 756,000  | 1,596,669 |          |
| 9-Jul-22  | 57.21             | 0.22             | -33.43                | 99.27            | 344.45           | -                      | 873,632                        | 665,317  | 1,538,949 |          |
| 10-Jul-22 | 56.74             | 0.24             | -33.40                | 99.06            | 304.57           | -                      | 854,889                        | 677,320  | 1,532,209 |          |
| 11-Jul-22 | 57.68             | 0.20             | -32.62                | 99.26            | 344.26           | -                      | 860,536                        | 687,202  | 1,547,738 |          |
| 12-Jul-22 | 58.26             | 0.17             | -32.33                | 100.45           | 359.31           | -                      | 869,611                        | 642,021  | 1,511,632 |          |
| 13-Jul-22 | 57.55             | 0.22             | -32.88                | 98.70            | 345.58           | -                      | 858,343                        | 632,160  | 1,490,503 |          |
| 14-Jul-22 | 57.46             | 0.17             | -32.37                | 99.76            | 275.59           | -                      | 1,093,496                      | 468,323  | 1,561,819 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 15-Jul-22 | 56.97             | 0.24             | -32.89                | 98.57            | 306.95           | -                      | 853,770                        | 714,179  | 1,567,949 |          |
| 16-Jul-22 | 56.82             | 0.24             | -33.02                | 99.28            | 362.45           | -                      | 846,663                        | 728,049  | 1,574,712 |          |
| 17-Jul-22 | 56.93             | 0.26             | -33.00                | 98.13            | 341.13           | -                      | 867,879                        | 692,467  | 1,560,346 |          |
| 18-Jul-22 | 55.88             | 0.26             | -33.27                | 99.65            | 349.18           | -                      | 848,045                        | 740,160  | 1,588,205 |          |
| 19-Jul-22 | 56.52             | 0.21             | -32.93                | 98.46            | 329.08           | -                      | 853,231                        | 740,160  | 1,593,391 |          |
| 20-Jul-22 | 56.72             | 0.26             | -32.54                | 99.88            | 304.33           | -                      | 869,200                        | 638,059  | 1,507,259 |          |
| 21-Jul-22 | 57.20             | 0.30             | -31.46                | 1,031.00         | 291.22           | 268,404                | 744,537                        | 523,537  | 1,536,478 |          |
| 22-Jul-22 | 57.10             | 0.40             | -32.17                | 653.61           | 284.44           | 156,185                | 742,786                        | 596,427  | 1,495,398 |          |
| 23-Jul-22 | 56.89             | 0.21             | -32.92                | 98.59            | 301.93           | -                      | 876,006                        | 730,906  | 1,606,912 |          |
| 24-Jul-22 | 57.04             | 0.23             | -32.23                | 98.82            | 346.02           | -                      | 868,344                        | 683,920  | 1,552,264 |          |
| 25-Jul-22 | 57.23             | 0.19             | -31.69                | 99.12            | 310.08           | -                      | 858,502                        | 691,876  | 1,550,378 |          |
| 26-Jul-22 | 56.47             | 0.23             | -30.41                | 100.27           | 334.87           | -                      | 987,440                        | 504,475  | 1,491,915 |          |
| 27-Jul-22 | 56.54             | 0.14             | -31.75                | 99.96            | 285.72           | -                      | 869,422                        | 558,599  | 1,428,021 |          |
| 28-Jul-22 | 56.40             | 0.15             | -33.01                | 99.40            | 275.05           | -                      | 899,457                        | 632,284  | 1,531,741 |          |
| 29-Jul-22 | 56.49             | 0.16             | -32.96                | 99.99            | 285.02           | -                      | 883,845                        | 622,080  | 1,505,925 |          |
| 30-Jul-22 | 56.30             | 0.20             | -33.00                | 99.50            | 300.40           | -                      | 900,595                        | 725,439  | 1,626,034 |          |
| 31-Jul-22 | 56.40             | 0.20             | -33.20                | 100.30           | 287.50           | -                      | 896,273                        | 727,418  | 1,623,691 |          |
| 1-Aug-22  | 56.53             | 0.18             | -33.35                | 100.07           | 344.60           | -                      | 899,276                        | 637,920  | 1,537,196 |          |
| 2-Aug-22  | 56.54             | 0.24             | -33.52                | 99.13            | 307.75           | -                      | 899,926                        | 637,920  | 1,537,846 |          |
| 3-Aug-22  | 57.61             | 0.23             | -31.19                | 96.86            | 381.11           | -                      | 819,656                        | 660,694  | 1,480,350 |          |
| 4-Aug-22  | 57.00             | 0.30             | -30.52                | 767.44           | 380.63           | 91,228                 | 814,954                        | 596,855  | 1,503,037 |          |
| 5-Aug-22  | 57.06             | 0.21             | -32.35                | 94.46            | 388.16           | -                      | 859,670                        | 680,241  | 1,539,911 |          |
| 6-Aug-22  | 56.64             | 0.21             | -32.01                | 95.53            | 413.81           | -                      | 825,283                        | 710,186  | 1,535,469 |          |
| 7-Aug-22  | 50.63             | 0.35             | -30.43                | 95.60            | 420.80           | -                      | 856,478                        | 649,043  | 1,505,521 |          |
| 8-Aug-22  | 57.22             | 0.19             | -31.15                | 95.82            | 406.72           | -                      | 895,583                        | 616,194  | 1,511,777 |          |
| 9-Aug-22  | 57.60             | 0.19             | -31.00                | 96.40            | 386.53           | -                      | 824,544                        | 705,587  | 1,530,131 |          |
| 10-Aug-22 | 57.43             | 0.23             | -30.85                | 97.39            | 338.26           | -                      | 830,163                        | 720,763  | 1,550,926 |          |
| 11-Aug-22 | 57.06             | 0.23             | -31.23                | 95.92            | 371.15           | -                      | 870,625                        | 699,313  | 1,569,938 |          |
| 12-Aug-22 | 56.52             | 0.23             | -32.30                | 96.02            | 336.48           | -                      | 890,294                        | 706,869  | 1,597,163 |          |
| 13-Aug-22 | 55.91             | 0.28             | -33.44                | 97.07            | 338.62           | -                      | 900,831                        | 729,595  | 1,630,426 |          |
| 14-Aug-22 | 56.15             | 0.23             | -33.00                | 96.38            | 297.05           | -                      | 907,278                        | 713,414  | 1,620,692 |          |
| 15-Aug-22 | 55.82             | 0.26             | -32.13                | 96.96            | 293.05           | -                      | 925,300                        | 680,295  | 1,605,595 |          |
| 16-Aug-22 | 54.10             | 0.10             | -31.10                | 673.16           | 325.64           | 88,727                 | 877,208                        | 640,301  | 1,606,236 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 17-Aug-22 | 55.60             | 0.00             | -31.44                | 1,217.21         | 327.40           | 454,518                | 716,404                        | 410,820  | 1,581,742 |          |
| 18-Aug-22 | 56.69             | 0.17             | -31.83                | 97.22            | 297.64           | -                      | 954,014                        | 629,538  | 1,583,552 |          |
| 19-Aug-22 | 57.03             | 0.15             | -31.79                | 97.90            | 314.97           | -                      | 944,278                        | 650,806  | 1,595,084 |          |
| 20-Aug-22 | 57.01             | 0.20             | -32.00                | 97.24            | 291.56           | -                      | 935,219                        | 674,037  | 1,609,256 |          |
| 21-Aug-22 | ---               | ---              | -31.91                | 1,203.91         | 230.95           | 700,928                | 652,897                        | 276,909  | 1,630,734 |          |
| 22-Aug-22 | 54.10             | 0.00             | -30.14                | 1,335.24         | 269.36           | 958,503                | 539,467                        | 109,788  | 1,607,758 |          |
| 23-Aug-22 | 55.90             | 0.10             | -31.12                | 1,183.33         | 312.00           | 546,375                | 678,867                        | 408,680  | 1,633,922 |          |
| 24-Aug-22 | 56.88             | 0.18             | -31.00                | 96.76            | 280.66           | -                      | 972,100                        | 654,430  | 1,626,530 |          |
| 25-Aug-22 | 56.39             | 0.18             | -31.16                | 97.11            | 293.66           | -                      | 954,044                        | 677,676  | 1,631,720 |          |
| 26-Aug-22 | 57.03             | 0.20             | -30.91                | 94.85            | 317.50           | -                      | 947,588                        | 676,719  | 1,624,307 |          |
| 27-Aug-22 | 57.79             | 0.25             | -30.13                | 92.67            | 333.91           | -                      | 890,794                        | 712,047  | 1,602,841 |          |
| 28-Aug-22 | 57.36             | 0.24             | -29.91                | 92.28            | 305.79           | -                      | 883,020                        | 712,330  | 1,595,350 |          |
| 29-Aug-22 | 56.45             | 0.18             | -29.36                | 91.25            | 332.14           | -                      | 907,038                        | 670,857  | 1,577,895 |          |
| 30-Aug-22 | 56.63             | 0.19             | -28.92                | 91.23            | 298.77           | -                      | 943,217                        | 624,493  | 1,567,710 |          |
| 31-Aug-22 | 56.10             | 0.10             | -30.30                | 92.40            | 262.60           | -                      | 1,044,451                      | 625,864  | 1,670,315 |          |
| 1-Sep-22  | 56.59             | 0.20             | -31.84                | 92.27            | 277.43           | -                      | 940,958                        | 711,127  | 1,652,085 |          |
| 2-Sep-22  | 56.52             | 0.19             | -31.63                | 91.22            | 305.56           | -                      | 936,981                        | 693,190  | 1,630,171 |          |
| 3-Sep-22  | 55.61             | 0.21             | -32.54                | 89.66            | 315.88           | -                      | 939,786                        | 714,709  | 1,654,495 |          |
| 4-Sep-22  | 56.32             | 0.25             | -32.59                | 93.99            | 296.88           | -                      | 945,540                        | 715,037  | 1,660,577 |          |
| 5-Sep-22  | 55.48             | 0.26             | -32.74                | 89.06            | 339.94           | -                      | 942,002                        | 719,614  | 1,661,616 |          |
| 6-Sep-22  | 56.23             | 0.21             | -32.47                | 89.30            | 303.02           | -                      | 940,609                        | 711,537  | 1,652,146 |          |
| 7-Sep-22  | 54.91             | 0.24             | -32.74                | 90.10            | 321.90           | -                      | 932,943                        | 723,316  | 1,656,259 |          |
| 8-Sep-22  | 54.20             | 0.20             | -32.13                | 1,046.51         | 272.18           | 385,551                | 727,601                        | 547,541  | 1,660,693 |          |
| 9-Sep-22  | 56.54             | 0.24             | -32.35                | 89.26            | 341.22           | -                      | 950,766                        | 697,408  | 1,648,174 |          |
| 10-Sep-22 | 56.11             | 0.21             | -32.35                | 91.90            | 322.57           | -                      | 938,010                        | 704,984  | 1,642,994 |          |
| 11-Sep-22 | 55.33             | 0.24             | -32.47                | 91.72            | 309.98           | -                      | 940,975                        | 700,436  | 1,641,411 |          |
| 12-Sep-22 | 55.84             | 0.26             | -32.69                | 88.29            | 286.85           | -                      | 939,076                        | 709,354  | 1,648,430 |          |
| 13-Sep-22 | 56.05             | 0.24             | -32.54                | 93.52            | 284.35           | -                      | 943,720                        | 705,375  | 1,649,095 |          |
| 14-Sep-22 | 55.60             | 0.20             | -30.36                | 358.48           | 266.37           | 5,614                  | 932,908                        | 694,690  | 1,633,212 |          |
| 15-Sep-22 | 54.51             | 0.27             | -31.23                | 94.84            | 277.71           | -                      | 1,009,487                      | 657,207  | 1,666,694 |          |
| 16-Sep-22 | 53.80             | 0.20             | -31.20                | 1,218.82         | 279.45           | 655,704                | 571,976                        | 447,080  | 1,674,760 |          |
| 17-Sep-22 | ---               | ---              | -32.00                | 1,547.60         | 30.99            | 1,665,573              | -                              | -        | 1,665,573 |          |
| 18-Sep-22 | ---               | ---              | -32.00                | 1,553.52         | 26.75            | 1,660,795              | -                              | -        | 1,660,795 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 19-Sep-22 | ---               | ---              | -31.98                | 1,549.03         | 27.59            | 1,657,302              | -                              | -        | 1,657,302 |          |
| 20-Sep-22 | 50.90             | 0.40             | -31.99                | 1,550.06         | 27.29            | 1,662,022              | -                              | -        | 1,662,022 |          |
| 21-Sep-22 | 53.90             | 0.30             | -32.00                | 1,549.19         | 27.40            | 1,666,644              | -                              | -        | 1,666,644 |          |
| 22-Sep-22 | 52.90             | 0.50             | -32.00                | 1,541.30         | 27.24            | 1,658,943              | -                              | -        | 1,658,943 |          |
| 23-Sep-22 | 52.10             | 0.40             | -31.99                | 1,545.06         | 32.30            | 1,647,422              | -                              | -        | 1,647,422 |          |
| 24-Sep-22 | ---               | ---              | -31.99                | 1,548.49         | 26.29            | 1,649,469              | -                              | -        | 1,649,469 |          |
| 25-Sep-22 | ---               | ---              | -31.99                | 1,551.48         | 26.92            | 1,658,374              | -                              | -        | 1,658,374 |          |
| 26-Sep-22 | 51.50             | 0.30             | -31.99                | 1,548.34         | 28.67            | 1,642,316              | -                              | -        | 1,642,316 |          |
| 27-Sep-22 | 53.10             | 0.30             | -32.00                | 1,552.21         | 28.46            | 1,611,338              | -                              | -        | 1,611,338 |          |
| 28-Sep-22 | 52.10             | 0.40             | -31.99                | 1,554.06         | 29.92            | 1,598,704              | -                              | -        | 1,598,704 |          |
| 29-Sep-22 | 52.00             | 0.30             | -31.98                | 1,551.34         | 29.06            | 1,569,410              | -                              | -        | 1,569,410 |          |
| 30-Sep-22 | ---               | ---              | -31.98                | 1,549.57         | 27.57            | 1,547,214              | -                              | -        | 1,547,214 |          |
| 1-Oct-22  | ---               | ---              | -31.98                | 1,550.44         | 28.22            | 1,547,961              | -                              | -        | 1,547,961 |          |
| 2-Oct-22  | ---               | ---              | -31.98                | 1,551.06         | 28.15            | 1,544,432              | -                              | -        | 1,544,432 |          |
| 3-Oct-22  | 52.80             | 0.30             | -31.98                | 1,549.01         | 28.19            | 1,542,138              | -                              | -        | 1,542,138 |          |
| 4-Oct-22  | 52.40             | 0.40             | -31.99                | 1,548.97         | 29.10            | 1,532,993              | -                              | -        | 1,532,993 |          |
| 5-Oct-22  | 53.00             | 0.30             | -31.99                | 1,547.48         | 26.79            | 1,533,809              | -                              | -        | 1,533,809 |          |
| 6-Oct-22  | 53.40             | 0.10             | -31.99                | 1,547.90         | 29.77            | 1,502,231              | -                              | -        | 1,502,231 |          |
| 7-Oct-22  | 54.50             | 0.30             | -31.96                | 1,552.98         | 29.93            | 1,462,496              | -                              | -        | 1,462,496 |          |
| 8-Oct-22  | 55.00             | 0.20             | -31.98                | 1,550.27         | 28.86            | 1,470,557              | -                              | -        | 1,470,557 |          |
| 9-Oct-22  | ---               | ---              | -31.98                | 1,550.34         | 28.95            | 1,465,422              | -                              | -        | 1,465,422 |          |
| 10-Oct-22 | ---               | ---              | -31.98                | 1,549.47         | 31.07            | 1,457,299              | -                              | -        | 1,457,299 |          |
| 11-Oct-22 | 55.50             | 0.30             | -31.98                | 1,550.54         | 28.24            | 1,465,887              | -                              | -        | 1,465,887 |          |
| 12-Oct-22 | 55.00             | 0.20             | -31.98                | 1,547.70         | 28.46            | 1,499,694              | -                              | -        | 1,499,694 |          |
| 13-Oct-22 | 56.30             | 0.30             | -31.98                | 1,549.33         | 29.75            | 1,510,373              | -                              | -        | 1,510,373 |          |
| 14-Oct-22 | 55.70             | 0.10             | -31.98                | 1,549.05         | 29.23            | 1,488,321              | -                              | -        | 1,488,321 |          |
| 15-Oct-22 | 53.70             | 0.20             | -31.97                | 1,551.50         | 30.49            | 1,523,065              | -                              | -        | 1,523,065 |          |
| 16-Oct-22 | ---               | ---              | -31.98                | 1,546.92         | 30.21            | 1,516,488              | -                              | -        | 1,516,488 |          |
| 17-Oct-22 | 52.80             | 0.40             | -31.97                | 1,549.29         | 31.27            | 1,511,411              | -                              | 3,373    | 1,514,784 |          |
| 18-Oct-22 | 53.10             | 0.50             | -29.86                | 1,328.32         | 300.79           | 761,733                | 416,016                        | 264,895  | 1,442,644 |          |
| 19-Oct-22 | 53.50             | 0.40             | -30.63                | 1,127.65         | 415.06           | 449,579                | 514,287                        | 530,144  | 1,494,010 |          |
| 20-Oct-22 | 56.49             | 0.44             | -31.09                | 92.39            | 354.21           | -                      | 855,943                        | 657,769  | 1,513,712 |          |
| 21-Oct-22 | 56.06             | 0.51             | -31.66                | 88.83            | 375.40           | -                      | 791,031                        | 779,539  | 1,570,570 |          |

Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 22-Oct-22 | 54.72             | 0.62             | -30.55                | 84.62            | 379.88           | -                      | 753,376                        | 789,397  | 1,542,773 |          |
| 23-Oct-22 | 54.02             | 0.62             | -30.42                | 85.99            | 412.24           | -                      | 714,776                        | 820,327  | 1,535,103 |          |
| 24-Oct-22 | 54.71             | 0.60             | -30.04                | 84.44            | 408.93           | -                      | 717,742                        | 804,254  | 1,521,996 |          |
| 25-Oct-22 | 55.02             | 0.55             | -30.19                | 86.26            | 379.90           | -                      | 749,843                        | 798,098  | 1,547,941 |          |
| 26-Oct-22 | ---               | ---              | -28.90                | 81.14            | 320.82           | 3,059                  | 571,649                        | 552,641  | 1,127,349 |          |
| 27-Oct-22 | 56.86             | 0.39             | -31.29                | 86.31            | 373.72           | -                      | 784,959                        | 770,581  | 1,555,540 |          |
| 28-Oct-22 | 55.57             | 0.47             | -30.85                | 84.34            | 385.90           | -                      | 755,763                        | 800,506  | 1,556,269 |          |
| 29-Oct-22 | 55.52             | 0.42             | -31.08                | 88.67            | 383.16           | -                      | 771,756                        | 800,803  | 1,572,559 |          |
| 30-Oct-22 | 57.03             | 0.36             | -30.65                | 88.12            | 370.23           | -                      | 770,865                        | 781,713  | 1,552,578 |          |
| 31-Oct-22 | 57.40             | 0.40             | -30.20                | 85.30            | 384.20           | -                      | 780,435                        | 757,548  | 1,537,983 |          |
| 1-Nov-22  | 57.06             | 0.44             | -30.03                | 82.36            | 367.92           | -                      | 756,787                        | 780,635  | 1,537,422 |          |
| 2-Nov-22  | 54.87             | 0.53             | -31.03                | 81.16            | 397.31           | -                      | 751,682                        | 804,454  | 1,556,136 |          |
| 3-Nov-22  | 56.33             | 0.39             | -31.63                | 83.17            | 325.00           | -                      | 763,162                        | 789,329  | 1,552,491 |          |
| 4-Nov-22  | ---               | ---              | -29.29                | 823.93           | 277.91           | 210,029                | 1,026,200                      | 255,919  | 1,492,148 |          |
| 5-Nov-22  | ---               | ---              | -31.97                | 1,552.11         | 29.04            | 1,490,449              | -                              | 45,701   | 1,536,150 |          |
| 6-Nov-22  | ---               | ---              | -31.97                | 1,550.39         | 32.64            | 1,555,238              | -                              | 66,744   | 1,621,982 |          |
| 7-Nov-22  | 54.60             | 0.50             | -31.98                | 1,548.22         | 32.39            | 1,485,713              | -                              | 79,167   | 1,564,880 |          |
| 8-Nov-22  | 56.00             | 0.30             | -30.53                | 869.71           | 227.11           | 622,443                | 760,018                        | 64,951   | 1,447,412 |          |
| 9-Nov-22  | 54.71             | 0.47             | -31.93                | 78.23            | 367.18           | -                      | 1,044,885                      | 472,764  | 1,517,649 |          |
| 10-Nov-22 | 56.50             | 0.00             | -28.80                | 929.46           | 405.40           | 207,544                | 623,949                        | 650,497  | 1,481,990 |          |
| 11-Nov-22 | ---               | ---              | -30.63                | 1,063.26         | 350.35           | 682,064                | 446,445                        | 461,597  | 1,590,106 |          |
| 12-Nov-22 | ---               | ---              | -30.45                | 703.97           | 357.04           | 244,288                | 640,957                        | 691,653  | 1,576,898 |          |
| 13-Nov-22 | ---               | ---              | -30.73                | 1,291.34         | 216.96           | 1,076,466              | 91,531                         | 167,647  | 1,335,644 |          |
| 14-Nov-22 | 52.20             | 1.00             | -31.48                | 750.89           | 363.68           | 688,417                | 451,832                        | 483,504  | 1,623,753 |          |
| 15-Nov-22 | 52.30             | 0.50             | -30.44                | 810.50           | 391.16           | 267,859                | 628,009                        | 609,770  | 1,505,638 |          |
| 16-Nov-22 | 52.90             | 0.60             | -31.57                | 81.17            | 379.56           | -                      | 796,813                        | 822,215  | 1,619,028 |          |
| 17-Nov-22 | 51.90             | 0.40             | -29.15                | 947.89           | 500.10           | 214,041                | 608,415                        | 645,129  | 1,467,585 |          |
| 18-Nov-22 | 57.00             | 0.10             | -30.36                | 848.98           | 450.14           | 376,535                | 487,627                        | 570,333  | 1,434,495 |          |
| 19-Nov-22 | 56.81             | 0.31             | -30.28                | 78.32            | 427.36           | -                      | 676,406                        | 730,398  | 1,406,804 |          |
| 20-Nov-22 | 53.28             | 0.70             | -30.64                | 81.27            | 367.29           | -                      | 687,225                        | 677,900  | 1,365,125 |          |
| 21-Nov-22 | 57.28             | 0.30             | -31.19                | 86.58            | 367.43           | -                      | 729,287                        | 730,162  | 1,459,449 |          |
| 22-Nov-22 | 55.39             | 1.38             | -28.72                | 86.35            | 359.16           | -                      | 692,616                        | 655,608  | 1,348,224 |          |
| 23-Nov-22 | 55.47             | 0.39             | -31.38                | 87.49            | 387.77           | -                      | 699,742                        | 797,448  | 1,497,190 |          |



Appendix C1, continued

| Date      | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow | TotalFlow | Comments |
|-----------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|----------|-----------|----------|
| 24-Nov-22 | 56.76             | 0.31             | -30.99                | 83.04            | 377.99           | -                      | 858,415                        | 625,444  | 1,483,859 |          |
| 25-Nov-22 | 56.24             | 0.38             | -31.39                | 86.06            | 408.12           | -                      | 694,137                        | 788,069  | 1,482,206 |          |
| 26-Nov-22 | 52.50             | 0.33             | -31.08                | 84.81            | 422.78           | -                      | 688,364                        | 760,264  | 1,448,628 |          |
| 27-Nov-22 | ---               | ---              | -31.08                | 79.20            | 245.54           | -                      | 1,322,717                      | 58,337   | 1,381,054 |          |
| 28-Nov-22 | 58.40             | 0.10             | -29.20                | 506.97           | 458.74           | 42,385                 | 913,775                        | 469,716  | 1,425,876 |          |
| 29-Nov-22 | 59.30             | 0.00             | -29.64                | 1,069.99         | 412.85           | 387,710                | 435,540                        | 554,770  | 1,378,020 |          |
| 30-Nov-22 | 59.10             | 0.10             | -29.80                | 1,050.60         | 468.20           | 483,692                | 423,485                        | 470,391  | 1,377,568 |          |
| 1-Dec-22  | 55.90             | 0.45             | -31.50                | 82.97            | 519.01           | -                      | 634,464                        | 784,755  | 1,419,219 |          |
| 2-Dec-22  | 56.03             | 0.41             | -31.88                | 82.85            | 510.63           | -                      | 582,008                        | 775,082  | 1,357,090 |          |
| 3-Dec-22  | 55.63             | 0.45             | -31.61                | 79.13            | 473.14           | -                      | 611,271                        | 801,740  | 1,413,011 |          |
| 4-Dec-22  | 56.64             | 0.38             | -30.41                | 82.06            | 444.05           | -                      | 637,651                        | 791,900  | 1,429,551 |          |
| 5-Dec-22  | 56.06             | 0.41             | -30.36                | 85.12            | 406.55           | -                      | 625,390                        | 799,055  | 1,424,445 |          |
| 6-Dec-22  | 54.41             | 0.42             | -30.77                | 85.43            | 394.27           | -                      | 656,981                        | 806,924  | 1,463,905 |          |
| 7-Dec-22  | 53.65             | 0.40             | -30.23                | 88.80            | 329.59           | -                      | 948,200                        | 535,613  | 1,483,813 |          |
| 8-Dec-22  | 55.10             | 0.39             | -31.29                | 84.75            | 434.95           | -                      | 700,958                        | 754,892  | 1,455,850 |          |
| 9-Dec-22  | 55.30             | 0.20             | -29.98                | 748.06           | 460.14           | 99,501                 | 613,478                        | 723,804  | 1,436,783 |          |
| 10-Dec-22 | 55.10             | 0.10             | -30.11                | 1,000.84         | 362.71           | 407,572                | 510,061                        | 542,118  | 1,459,751 |          |
| 11-Dec-22 | 52.02             | 0.53             | -32.16                | 88.61            | 388.11           | -                      | 717,110                        | 826,557  | 1,543,667 |          |
| 12-Dec-22 | 51.40             | 0.52             | -31.64                | 82.33            | 413.94           | -                      | 689,281                        | 839,983  | 1,529,264 |          |
| 13-Dec-22 | 49.88             | 0.72             | -31.05                | 88.11            | 395.09           | -                      | 687,213                        | 852,527  | 1,539,740 |          |
| 14-Dec-22 | 50.23             | 0.60             | -32.21                | 85.08            | 446.59           | -                      | 646,873                        | 845,381  | 1,492,254 |          |
| 15-Dec-22 | 53.44             | 0.41             | -32.46                | 82.34            | 478.85           | -                      | 633,882                        | 785,872  | 1,419,754 |          |
| 16-Dec-22 | 55.35             | 0.33             | -32.49                | 85.09            | 465.87           | -                      | 635,145                        | 775,982  | 1,411,127 |          |
| 17-Dec-22 | 56.85             | 0.32             | -32.47                | 85.14            | 405.42           | -                      | 648,461                        | 750,449  | 1,398,910 |          |
| 18-Dec-22 | 55.95             | 0.43             | -32.50                | 82.80            | 572.89           | -                      | 613,228                        | 773,359  | 1,386,587 |          |
| 19-Dec-22 | 53.90             | 0.48             | -32.49                | 80.44            | 575.46           | -                      | 580,399                        | 772,829  | 1,353,228 |          |
| 20-Dec-22 | 55.46             | 0.34             | -32.49                | 79.61            | 569.40           | -                      | 578,368                        | 676,807  | 1,255,175 |          |
| 21-Dec-22 | 48.95             | 0.44             | -32.53                | 75.96            | 684.80           | -                      | 615,976                        | 607,685  | 1,223,661 |          |
| 22-Dec-22 | 42.64             | 0.32             | -32.49                | 81.68            | 514.49           | -                      | 876,715                        | 378,407  | 1,255,122 |          |
| 23-Dec-22 | 57.09             | 0.35             | -32.51                | 81.01            | 507.83           | -                      | 637,240                        | 585,287  | 1,222,527 |          |
| 24-Dec-22 | 55.92             | 0.44             | -32.52                | 85.09            | 528.47           | -                      | 696,339                        | 548,416  | 1,244,755 |          |
| 25-Dec-22 | 57.27             | 0.33             | -32.50                | 86.28            | 476.41           | -                      | 565,914                        | 657,432  | 1,223,346 |          |
| 26-Dec-22 | ---               | ---              | -30.36                | 828.74           | 428.11           | 296,814                | 468,385                        | 478,025  | 1,243,224 |          |

Appendix C1, continued

| Date                            | Methane Daily Avg | Oxygen Daily Avg | Field Pressure ("H2O) | Flare 1 Temp Avg | Flare 2 Temp Avg | Groundflare Daily Flow | Candlestick Flare 2 Daily Flow | Gen Flow           | TotalFlow          | Comments |
|---------------------------------|-------------------|------------------|-----------------------|------------------|------------------|------------------------|--------------------------------|--------------------|--------------------|----------|
| 27-Dec-22                       | 56.26             | 0.52             | -32.49                | 86.60            | 496.91           | -                      | 594,470                        | 670,763            | 1,265,233          |          |
| 28-Dec-22                       | 55.10             | 0.54             | -32.45                | 82.13            | 489.86           | -                      | 692,773                        | 595,127            | 1,287,900          |          |
| 29-Dec-22                       | 57.23             | 0.36             | -32.48                | 89.20            | 420.30           | -                      | 1,022,084                      | 284,356            | 1,306,440          |          |
| 30-Dec-22                       | 57.08             | 0.39             | -32.24                | 86.46            | 433.36           | -                      | 623,728                        | 690,557            | 1,314,285          |          |
| 31-Dec-22                       | 53.60             | 0.60             | -32.50                | 86.30            | 488.70           | -                      | 614,155                        | 731,155            | 1,345,310          |          |
| <b>Total</b>                    |                   |                  |                       |                  |                  | <b>105,091,532</b>     | <b>251,649,080</b>             | <b>202,337,653</b> | <b>558,386,474</b> |          |
| <b>Daily Average</b>            | <b>56.4</b>       | <b>0.3</b>       | <b>-32.3</b>          |                  |                  | <b>288,713</b>         | <b>691,344</b>                 | <b>553,972</b>     | <b>1,534,029</b>   |          |
| <b>scfm</b>                     |                   |                  |                       |                  |                  | <b>200</b>             | <b>480</b>                     | <b>385</b>         | <b>1,065</b>       |          |
| <b>Normalize to 50% methane</b> |                   |                  |                       |                  |                  | -                      | -                              | -                  | -                  |          |

## **APPENDIX D**

### **Subsurface Perimeter and Foundation Probe Monitoring**

- D1 Subsurface Perimeter and Foundation Probe Monitoring Methodology
- D2 Probe Location and Completion Information
- D3 Hartland Landfill Gas Monitoring Program 2022 Gas Probe Data



## **Appendix D1 Subsurface Perimeter and Foundation Probe Monitoring Methodology**

The following is the subsurface probe and foundation monitoring field methodology, as outlined in *Hartland Landfill Standard Operating Procedures* (2019). All monitoring is completed with a LANDTEC Gas Analyzer and Extraction Monitor (GEM) 2000+.

### **CALIBRATION**

Prior to each monitoring event, the gas analyzer is calibrated using the calibration gases at Hartland. Prior to calibration, the gas monitor is set to Gas Analyzer (GA) mode for ambient measurements.

Methane and carbon dioxide gases are used to calibrate the methane and carbon dioxide sensors, and zero the oxygen sensor. Oxygen gas is used to calibrate the oxygen sensor and zero the methane sensor. All calibration values should be recorded on the field sheet.

### **MONITORING**

Weather conditions, including barometric pressure, precipitation and temperature are recorded prior to commencing work.

The following monitoring procedure is followed for each gas probe:

1. Zero pressure.
2. Connect tubing to the gas sample port (ensure pump is off), open valve, wait until pressure reading stabilizes and record value.
3. Turn on pump and wait at least 200 seconds.
4. Watch for any methane or carbon dioxide spikes.
5. At the end of 200 seconds, record the gas concentrations and any spikes on the field sheet.
6. Quickly navigate to the pressure screen and record the static pressure reading (this helps determine whether the screen is plugged/open, or water is covering the screen).
7. Disconnect the tubing from the sampling port and close the gas monitoring valve.
8. Open the water level monitoring port (not all wells will have a water level monitoring port).
9. Follow the same procedure (steps 1-8) for gas probe B.
10. Once monitoring for probe B is completed measure the water level for probe A, followed by probe B.
11. Before moving to the next station, ensure that all valves are closed.

At the end of the day, check gas levels using the calibration gas and record on the field sheet.

## Appendix D2 Probe Location and Completion Information

| Probe                                            | Probe Location                                                                   | Well Information                                       |
|--------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>East Property Boundary Perimeter Probes</b>   |                                                                                  |                                                        |
| GP-1A                                            | 90 m north of main gate                                                          | Depth: 10.37 m, Screen height: 2.91 m                  |
| GP-1B                                            | 90 m north of main gate                                                          | Depth: 5.82 m, Screen height: 2.91 m                   |
| GP-2A                                            | 70 m north of GP-1                                                               | Depth: 10.61 m, Screen height: 2.91 m                  |
| GP-2B                                            | 70 m north of GP-1                                                               | Depth: 6.36 m, Screen height: 2.91 m                   |
| GP-3A                                            | 120 m north of GP-1                                                              | Depth: 10.63 m, Screen height: 2.91 m                  |
| GP-3B                                            | 120 m north of GP-1                                                              | Depth: 4.83 m, Screen height: unknown                  |
| GP-11A                                           | 20 m north of main gate in mountain biking parking lot                           | Depth: 10.72 m, Screen height: unknown                 |
| GP-11B                                           | 20 m north of main gate in mountain biking parking lot                           | Depth: 5.23 m, Screen height: unknown                  |
| GP-12A                                           | 50 m north of GP-3 along perimeter road                                          | Depth: 9.00 m, Screen height: unknown                  |
| GP-12B                                           | 50 m north of GP-3 along perimeter road                                          | Depth: 5.72 m, Screen height: unknown                  |
| <b>Horizontal Subsurface Building Gas Probes</b> |                                                                                  |                                                        |
| GP-4A                                            | Southeast corner of workshop                                                     | 2.4 m from southeast corner of building in gravel road |
| GP-5A                                            | Admin building parking lot, behind mountain bike washrooms                       | 3 m along west side of mountain bike washroom building |
| GP-6A                                            | Northeast corner of admin building                                               | 15 m west along north side of building                 |
| GP-6B                                            | Northeast corner of admin building                                               | 15 m west along north side of building                 |
| GP-7A                                            | Against north wall of Hartland admin office                                      | 10 m south toward southeast corner of building         |
| GP-7B                                            | Against wall in southwest corner of Hartland admin building                      | Follows 'H' pattern under building extension           |
| GP-8A                                            | East side of auto-scale building                                                 | Unknown                                                |
| GP-9A                                            | West side of auto-scale building                                                 | Unknown                                                |
| GP-13A                                           | 2 m south of Hartland workshop entrance                                          | Unknown                                                |
| GP-14A                                           | West side of Hartland workshop                                                   | 12 m along east side of workshop                       |
| GP-17A                                           | North corner of Hartland Interpretive Centre (monitoring initiated January 2011) | Follows building perimeter                             |
| GP-18A                                           | Northwest corner of the contractor's workshop                                    | Follows building perimeter                             |

Appendix D3 Hartland Landfill Gas Monitoring Program 2022 Gas Probe Data

**GAS PROBE 01A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment                                                                                         |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |                                                                                                 |
| 2022           | 2022/03/14 | 15:29 | ---             | 3.77               | -35,030.23                 | 0.0                        | 0.1                               | 21.4                     |                                                                                                 |
| 2022           | 2022/07/29 | 13:48 | ---             | 7.58               | 0.12                       | 0.0                        | 0.3                               | 19                       | Pump stopped prior to full recommended sampling period (200 seconds) because of vacuum in well. |

**GAS PROBE 01B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:34 | ---             | 4.01               | -35,029.99                 | 0.0                        | 2.8                               | 14.9                     |         |
| 2022           | 2022/07/29 | 13:52 | ---             | 4.6                | 1.69                       | 0.0                        | 3.3                               | 15.8                     |         |

**GAS PROBE 02A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment                                                                                         |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |                                                                                                 |
| 2022           | 2022/03/14 | 15:17 | ---             | 5.08               | -35,028.92                 | 0.0                        | 0.1                               | 21.2                     |                                                                                                 |
| 2022           | 2022/07/29 | 14:00 | ---             | 6.67               | -1.03                      | 0.0                        | 0.3                               | 18.9                     | Pump stopped prior to full recommended sampling period (200 seconds) because of vacuum in well. |

Appendix D3, continued

**GAS PROBE 02B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:22 | ---             | 5.3                | -35,028.70                 | 0.0                        | 4.2                               | 11.0                     |         |
| 2022           | 2022/07/29 | 14:03 | ---             | 5.84               | 2.39                       | 0.0                        | 5.2                               | 8.4                      |         |

**GAS PROBE 03A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:05 | ---             | 9.04               | -35,024.96                 | 0.0                        | 1.8                               | 14.2                     |         |
| 2022           | 2022/07/29 | 14:15 | ---             | 10.63              | 2.91                       | 0.0                        | 1.7                               | 11.7                     | Dry     |

**GAS PROBE 03B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:10 | ---             | 4.76               | -35,029.24                 | 0.0                        | 1.7                               | 14.8                     |         |
| 2022           | 2022/07/29 | 14:18 | ---             | 4.75               | 2.83                       | 0.0                        | 5.8                               | 16                       | Dry     |

**GAS PROBE 04A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:41 | ---             | ---                | ---                        | 0.0                        | 2.4                               | 19.0                     |         |
| 2022           | 2022/07/29 | 13:32 | ---             | ---                | ---                        | 0.0                        | 1.8                               | 17.7                     |         |

**GAS PROBE 05A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 12:20 | ---             | ---                | ---                        | 0.0                        | 0.7                               | 20.1                     |         |
| 2022           | 2022/07/29 | 11:07 | ---             | ---                | ---                        | 0.0                        | 0.5                               | 19.8                     |         |



Appendix D3, continued

**GAS PROBE 06A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 12:26 | ---             | ---                | ---                        | 0.0                        | 0.5                               | 20.4                     |         |
| 2022           | 2022/07/29 | 11:14 | ---             | ---                | ---                        | 0.0                        | 0.3                               | 19.8                     |         |

**GAS PROBE 06B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 12:29 | ---             | ---                | ---                        | 0.0                        | 1.1                               | 19.8                     |         |
| 2022           | 2022/07/29 | 11:37 | ---             | ---                | ---                        | 0.0                        | 0.4                               | 19.7                     |         |

**GAS PROBE 07A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 12:53 | ---             | ---                | ---                        | 0.0                        | 0.3                               | 20.9                     |         |
| 2022           | 2022/07/29 | 11:37 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 20.2                     |         |

**GAS PROBE 07B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 12:56 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 21.0                     |         |
| 2022           | 2022/07/29 | 11:42 | ---             | ---                | ---                        | 0.0                        | 0.1                               | 20.4                     |         |

**GAS PROBE 08A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 13:01 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 21.1                     |         |
| 2022           | 2022/07/29 | 11:48 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 20.2                     |         |

Appendix D3, continued

**GAS PROBE 09A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 13:07 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 21.1                     |         |
| 2022           | 2022/07/29 | 11:54 | ---             | ---                | ---                        | 0.0                        | 0.2                               | 20.1                     |         |

**GAS PROBE 11A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment                                                                                         |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|-------------------------------------------------------------------------------------------------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |                                                                                                 |
| 2022           | 2022/03/14 | 13:42 | ---             | 4.37               | -35,212.63                 | 0.0                        | 0.2                               | 20.9                     |                                                                                                 |
| 2022           | 2022/07/29 | 10:58 | ---             | 8.01               | 0.20                       | 0.0                        | 0.2                               | 19.9                     | Pump stopped prior to full recommended sampling period (200 seconds) because of vacuum in well. |

**GAS PROBE 11B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 13:45 | ---             | 4.46               | -35,212.54                 | 0.0                        | 19.0                              | 19.0                     |         |
| 2022           | 2022/07/29 | 10:53 | ---             | 5.65               | 3.33                       | 0.0                        | 3                                 | 17.8                     |         |

**GAS PROBE 12A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 14:01 | ---             | 6.97               | -35,210.03                 | 0.0                        | 20.8                              | 20.8                     |         |
| 2022           | 2022/07/29 | 14:30 | ---             | 10.33              | 4.24                       | 0.0                        | 2.6                               | 7.6                      |         |

Appendix D3, continued

**GAS PROBE 12B**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 14:08 | ---             | 6.06               | -35,210.94                 | 0.0                        | 7.8                               | 7.8                      |         |
| 2022           | 2022/07/29 | 14:35 | ---             | 6.53               | 3.72                       | 0.0                        | 8.7                               | 8.5                      |         |

**GAS PROBE 13A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:45 | ---             | ---                | ---                        | 0.0                        | 17.9                              | 17.9                     |         |
| 2022           | 2022/07/29 | 13:37 | ---             | ---                | ---                        | 0.0                        | 5.7                               | 14                       |         |

**GAS PROBE 17A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 15:50 | ---             | ---                | ---                        | 0.0                        | 21.1                              | 21.1                     |         |
| 2022           | 2022/07/29 | 13:41 | ---             | ---                | ---                        | 0.0                        | 0.7                               | 18.9                     |         |

**GAS PROBE 18A**

| Reporting Year | Date       | Time  | Pressure/Vacuum | Static water level | Exposed screen above water | Methane (CH <sub>4</sub> ) | Carbon Dioxide (CO <sub>2</sub> ) | Oxygen (O <sub>2</sub> ) | Comment |
|----------------|------------|-------|-----------------|--------------------|----------------------------|----------------------------|-----------------------------------|--------------------------|---------|
|                |            |       | inches of water | metres             | metres                     | percent in air             | percent in air                    | percent in air           |         |
| 2022           | 2022/03/14 | 14:18 | ---             | ---                | ---                        | 0.0                        | 21.0                              | 21.0                     |         |
| 2022           | 2022/07/29 | 10:34 | ---             | ---                | ---                        | 0.0                        | 0.3                               | 19.9                     |         |

## **APPENDIX E**

### **Grid and Hot Spot Monitoring**

- E1 Grid and Hot Spot Monitoring Methodology
- E2 2022 Grid and Z Point Monitoring Data
- E3 Hartland Landfill Historical Z Point Data



## Appendix E1 Grid and Hot Spot Monitoring Methodology

The following is the grid sampling field methodology, as outlined in *Hartland Landfill Standard Operating Procedures* (2012).

Monitoring usually takes two full days, beginning at 0730 hours and ending between 1600 and 1630. Prior to each monitoring day, the gas analyzer must be calibrated using the calibration gases at Hartland. At the beginning of each field day, the fuel cell for the Flame Ionization Detector (FID) is filled with hydrogen gas and the unit is warmed up for at least 30 minutes before calibration. Calibration is conducted with two methane span gases (currently 500 ppm and 14,990 ppm methane), and a zero gas to generate a proper calibration slope. After successful calibration, as span check is completed and recorded on the calibration sheet. In addition, the Jerome sensor is regenerated at the beginning and end of each day to remove any residual hydrogen sulphide on the gold sensor.

The Jerome analyzer is factory calibrated and, therefore, does not require field calibration. After regeneration, the instrument is turned on for 30 minutes before zeroing. Once it is zeroed, the zero filter is attached to the unit and a sample is taken.

### **MONITORING**

There is an established walking pattern over the grid points, and it denotes two distinct monitoring areas (Phase 1 and Phase 2/Active Face). These areas are monitored separately, due to the distinct differences in gas concentrations, level of landfilling activity, and placement of litter fences. This results in acquisition of data from a similar area under similar environmental conditions, as monitoring typically takes two days. In each area, the grid points are traversed alphabetically (e.g., B1, B2, B3, B4, etc.) where physically possible. In some cases, litter fences, controlled waste trenches or active filling areas limit or restrict access resulting in deviation from the standard protocol. These deviations should be recorded on the field sheet.

Weather conditions dictate when this monitoring can be completed. The FID cannot operate in rainy conditions and monitoring should be delayed until two consecutive days of dry weather are predicted. In addition, high to moderate winds blow gases away from their origin and dilute gas concentrations. These conditions are not representative of typical landfill conditions and monitoring does not take place on these days.

The following procedure is used to collect methane and H<sub>2</sub>S readings at each grid point:

1. Place the hydrogen sulphide (H<sub>2</sub>S) analyzer on the ground then press the "Sample" button.
2. The second staff person should place the FID intake controller 4 inches from the ground surface for 30 seconds.
3. Once the H<sub>2</sub>S analyzer has reported a value (approximately 30 seconds), the methane value should be read from the FID and both values recorded on the field sheet.
4. The FID is programmed to alarm if methane levels exceed 100 ppm. If the alarm sounds while walking a traverse, staff must investigate the area for the source of elevated methane by means of a detailed 10-by-10 meter (m) grid. The 10-by-10 m grid should be traversed between all adjacent grid points. Obvious sources of methane include bird poles or a seam/edge of a temporary closure lining.
5. Once the source has been identified, record the source description, methane and H<sub>2</sub>S values, as well as the location coordinates. This data represents a "hot spot" (>1,000 ppm of methane) or "Z-spot" (>12,500 ppm of methane), identified on figures 5 and 6 as a red, or purple, 'X', respectively.
6. If an obvious source cannot be identified, the location and data/observations from the highest localized reading should be recorded.
7. Continue with this method until all grid points, background stations, and pre-existing Z-spots have been monitored. Pre-existing Z-spots can be removed from the monitoring list if methane levels are below 1,000 ppm for three consecutive monitoring events.
8. At the end of each field day, a span check is completed on the FID and recorded on the field sheet.

**Appendix E2 2022 Grid and Z Point Monitoring Data**

**Table 1. Hartland Landfill VOC & TRS Grid Data**

| <b>August 23-26, 2022</b> |                      |                       |
|---------------------------|----------------------|-----------------------|
| <b>WAYPOINT</b>           | <b>Methane (ppm)</b> | <b>H<sub>2</sub>S</b> |
| B1                        | 0                    | 0.002                 |
| B2                        | 0                    | 0.001                 |
| B3                        | 0                    | 0.003                 |
| B4                        | 0                    | 0.002                 |
| B5                        | 0                    | 0.002                 |
| B6                        | 1                    | 0.002                 |
| B7                        | 0                    | 0.001                 |
| B8                        | 0                    | 0.002                 |
| B9                        | 0                    | 0.003                 |
| B10                       | 0                    | 0.003                 |
| BACK-1                    | 0                    | 0.001                 |
| BACK-6                    | 0                    | 0.002                 |
| BACK-7                    | 0                    | 0.000                 |
| BACK-10                   | 0                    | 0.000                 |
| BACK-11                   | 0                    | 0.000                 |
| BACK-12                   | 0                    | 0.001                 |
| BACK-13                   | 0                    | 0.000                 |
| BACK-20                   | 0                    | 0.001                 |
| BACK-21                   | 0                    | 0.001                 |
| C1                        | 0                    | 0.002                 |
| C2                        | 0                    | 0.002                 |
| C3                        | 0                    | 0.003                 |
| C4                        | 0                    | 0.003                 |
| C5                        | 0                    | 0.001                 |
| C6                        | 0                    | 0.002                 |
| C7                        | 0                    | 0.003                 |
| C8                        | 0                    | 0.003                 |
| C9                        | 0                    | 0.003                 |
| C10                       | 0                    | 0.002                 |
| C11                       | 0                    | 0.003                 |
| D1                        | 0                    | 0.002                 |
| D2                        | 0                    | 0.002                 |
| D3                        | 0                    | 0.003                 |
| D4                        | 0                    | 0.003                 |
| D5                        | 0                    | 0.003                 |
| D6                        | 0                    | 0.004                 |
| D7                        | 0                    | 0.002                 |
| D8                        | 35                   | 0.002                 |
| D9                        | 0                    | 0.002                 |
| D10                       | 0                    | 0.002                 |
| D11                       | 0                    | 0.002                 |
| E1                        | 0                    | 0.001                 |
| E2                        | 0                    | 0.003                 |
| E3                        | 0                    | 0.003                 |
| E4                        | 0                    | 0.002                 |
| E5                        | 0                    | 0.002                 |
| E6                        | 0                    | 0.002                 |
| E7                        | 2                    | 0.002                 |

**Appendix E2**  
**Table 1, continued**

| August 23-26, 2022 |               |                  |
|--------------------|---------------|------------------|
| WAYPOINT           | Methane (ppm) | H <sub>2</sub> S |
| E8                 | 0             | 0.002            |
| E9                 | ---           | ---              |
| E10                | 0             | 0.002            |
| E11                | 202           | 0.002            |
| F1                 | 0             | 0.002            |
| F2                 | 0             | 0.002            |
| F3                 | 0             | 0.002            |
| F4                 | 0             | 0.001            |
| F5                 | 0             | 0.002            |
| F6                 | 13            | 0.001            |
| F7                 | 4             | 0.001            |
| F8                 | 1             | 0.003            |
| F9                 | ---           | ---              |
| F10                | 34            | 0.005            |
| F11                | 110           | 0.003            |
| F12                | ---           | ---              |
| G1                 | 0             | 0.001            |
| G2                 | 0             | 0.001            |
| G3                 | 0             | 0.001            |
| G4                 |               | ---              |
| G5                 | 0             | 0.002            |
| G6                 | 1             | 0.002            |
| G7                 | 445           | 0.002            |
| G8                 | 2             | 0.002            |
| G9                 | 15            | 0.002            |
| G10                | 2             | 0.001            |
| G11                | ---           | ---              |
| G12                | 61            | 0.001            |
| G13                | ---           | ---              |
| G14                | ---           | ---              |
| G15                | ---           | ---              |
| H1                 | 0             | 0.001            |
| H2                 | 0             | 0.001            |
| H3                 | 0             | 0.001            |
| H4                 | 0             | 0.001            |
| H5                 | 0             | 0.001            |
| H6                 | 0             | 0.001            |
| H7                 | 0             | 0.001            |
| H8                 | 5             | 0.001            |
| H9                 | 7             | 0.001            |
| H10                | 7             | 0.003            |
| H11                | 0             | 0.001            |
| H12                | ---           | ---              |
| H13                | ---           | ---              |
| I1                 | 0             | 0.000            |
| I2                 | 0             | 0.000            |
| I3                 | 0             | 0.000            |
| I4                 | 0             | 0.001            |
| I5                 | 0             | 0.001            |
| I6                 | 0             | 0.001            |
| I7                 | 0             | 0.000            |



**Appendix E2**  
**Table 1, continued**

| August 23-26, 2022 |               |                  |
|--------------------|---------------|------------------|
| WAYPOINT           | Methane (ppm) | H <sub>2</sub> S |
| I8                 | 13            | 0.001            |
| I9                 | 0             | 0.002            |
| I10                | 12            | 0.001            |
| I11                | 10            | 0.001            |
| I12                | 165           | 0.003            |
| I13                | 68            | 0.003            |
| I14                | 46            | 0.002            |
| I15                | 121           | 0.002            |
| J1                 | 0             | 0.001            |
| J2                 | 0             | 0.001            |
| J3                 | 0             | 0.001            |
| J4                 | 0             | 0.001            |
| J5                 | 0             | 0.001            |
| J6                 | 0             | 0.001            |
| J7                 | 0             | 0.001            |
| J8                 | 0             | 0.001            |
| J9                 | 0             | 0.002            |
| K1                 | 0             | 0.001            |
| K2                 | 0             | 0.001            |
| K3                 | 0             | 0.001            |
| K4                 | 0             | 0.001            |
| K5                 | 0             | 0.001            |
| K6                 | 0             | 0.001            |
| K7                 | 0             | 0.001            |
| K8                 | 0             | 0.002            |
| K9                 | 35            | 0.002            |
| K10                | 4             | 0.001            |
| K11                | 46            | 0.002            |
| K12                | 2800          | 0.018            |
| K13                | 6             | 0.001            |
| K14                | 15            | 0.003            |
| K15                | 15            | 0.002            |
| L1                 | 0             | 0.001            |
| L2                 | 0             | 0.001            |
| L3                 | 0             | 0.002            |
| L4                 | 0             | 0.001            |
| L5                 | 0             | 0.001            |
| L6                 | 0             | 0.001            |
| L7                 | 0             | 0.001            |
| L8                 | 0             | 0.001            |
| L9                 | 0             | 0.001            |
| L10                | 0             | 0.002            |
| L11                | 0             | 0.003            |
| L12                | 13            | 0.002            |
| L13                | 2             | 0.002            |
| L14                | 0             | 0.002            |
| M1                 | 0             | 0.001            |
| M2                 | 0             | 0.001            |
| M3                 | 0             | 0.000            |
| M4                 | 0             | 0.001            |
| M5                 | 0             | 0.001            |

**Appendix E2**  
**Table 1, continued**

| August 23-26, 2022 |               |                  |
|--------------------|---------------|------------------|
| WAYPOINT           | Methane (ppm) | H <sub>2</sub> S |
| M6                 | 0             | 0.001            |
| M7                 | 0             | 0.001            |
| M8                 | 1             | 0.002            |
| M9                 | 0             | 0.001            |
| M10                | 0             | 0.000            |
| M11                | 7             | 0.001            |
| M12                | 3             | 0.001            |
| M13                | 2             | 0.001            |
| M14                | ---           | ---              |
| N1                 | 0             | 0.002            |
| N2                 | 1             | 0.002            |
| N3                 | 1             | 0.002            |
| N4                 | 0             | 0.002            |
| N5                 | 0             | 0.002            |
| N6                 | 0             | 0.002            |
| N7                 | 0             | 0.002            |
| N8                 | 1             | 0.002            |
| N9                 | 0             | 0.003            |
| N10                | 1             | 0.002            |
| N11                | 1             | 0.003            |
| N12                | 28            | 0.003            |
| N13                | 0             | 0.005            |
| P1                 | 0             | 0.001            |
| P2                 | 0             | 0.001            |
| P3                 | 0             | 0.001            |
| P4                 | 3             | 0.001            |
| Z88                | 5500          | 0.000            |
| Z94                | 12            | 0.580            |
| Z100               | 5600          | 0.001            |
| Z106               | 0.02          | 0.065            |
| Z108               |               |                  |
| Z115               |               |                  |
| Z117               |               |                  |
| Z119               | 3900          | 0                |
| Z121               |               |                  |
| Z122               | 180           | 0.004            |
| Z123               | 10            | 0.001            |
| Z124               | 2900          | 0                |
| Z125               | 1600          | 0.013            |
| Z126               | 130           | 0.002            |
| Z127               | 6600          | 0.650            |
| Z128               | 7600          | 0.26             |
| Z129               | 1800          | 0.000            |
| Z130               | 2900          | 0                |
| Z131               | 950           | 0.000            |
| Z132               |               |                  |
| Z133               |               |                  |
| Z134               |               |                  |
| Z135               |               |                  |
| Z136               | 4400          | 0.009            |

Appendix E2, continued

Table 2. Hartland Landfill VOC from Walkabout

| WAYPOINT | Methane (ppm) | Comments                                                                           |
|----------|---------------|------------------------------------------------------------------------------------|
| Z88      | 5,500         | Infrastructure hatch, north face closure at Toutle Valley                          |
| Z94      | 12            | Buried                                                                             |
| Z100     | 5,600         | Hole in tarp beside black pipe, approximately 20 ft downhill of gas well           |
| Z106     | 2             | LFG infrastructure on North Face interim closure                                   |
| Z119     | 3,900         | 4 holes along LFG pipe                                                             |
| Z122     | 2             | Concrete box infrastructure with black lid, across and up the road from wheel wash |
| Z123     | 0             | Buried                                                                             |
| Z124     | 2,900         | Concrete box with metal hatch by road                                              |
| Z125     | 1,600         | Concrete box with metal hatch by road, adjacent to Z124, slightly south            |
| Z126     | 130           | Concrete box with metal hatch by road, uphill of Z125                              |
| Z127     | 6,600         | Metal culvert parallel to road, flowing downhill into Toutle Valley                |
| Z128     | 7,600         | Inside casing of wells 90-1-1 and 90-2-1                                           |
| Z129     | 1,800         | Large hole in black tarp with metal poking out, 50ft south of well #90             |
| Z130     | 2,900         | Hole in tarp                                                                       |
| Z131     | 950           | Hole in tarp between bench roads, downhill of Z130                                 |
| Z135     | 2             | Hole in tarp with metal rebar                                                      |
| Z136     | 4,400         | Large hole in black tarp with rotten stump sticking out                            |

Appendix E3 Hartland Landfill Historical Z-Point Data

| Northing   | Eastings  | Point | Sort Order | Created  | Active? | Oct-2009 | Jan-2010 | Jun-2010 | Jan-2011 | Dec-2011 | Mar-2012 | May-2012 | Jul-2012 | Dec-2012 | Mar-2013 | Oct-2013 | Mar-2014 | Jul-2014 | Mar-2015 | Sep-2015 | Sep-2016 | Mar-2017 | Aug-2017 | Mar-2018 | Mar-2019 | Jul-2020 | Jul-2021 | Aug-2022     | Aug-2023     | Description (updated during latest survey)                                         |                                                                                         |
|------------|-----------|-------|------------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|--------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 5376317.71 | 465627.16 | Z88   | 88         | Jan-2010 | ACTIVE  |          | 50000    | 0.121    | 2395     | 15000    | 22000    | 15000    | 10300    | 15000    | 8720     | 3600     | 41700    | 8919     | 10500    | 15400    | 15700    | 4700     | 10300    | 6370     | 874      | 6816     | 311      | 5500         | 12,200       | Infrastructure hatch, north face closure at Toutle Valley                          |                                                                                         |
| 5376339.03 | 465598.07 | Z94   | 94         | Jan-2011 | ACTIVE  |          |          |          | 12500    | 20000    | 15000    | 15000    | 79700    | 15000    | 12500    | MISSED   | 23800    | 73200    | 42100    | 41400    | 134      | 14000    | 11300    | 16700    | 2859     | 8600     | 2        | 12           | 3.1          | Buried                                                                             |                                                                                         |
| 5376298.15 | 465682.45 | Z100  | 100        | Dec-2011 | ACTIVE  |          |          |          |          | 2300     | 15000    | 15000    | 10800    | 15000    | 12500    | 1088     | 18900    | 314      | 5685     | 11200    | 3.21     | MISSED   | MISSED   | MISSED   | 7        | 1511     | MISSED   | 5600         | 12,900       | Hole in tarp beside black pipe, approximately 20 ft downhill of gas well           |                                                                                         |
| 5376283.35 | 465708.83 | Z101  | 101        | Dec-2011 | N       |          |          |          |          | 11700    | 23.05    | 17800    | 30900    | 15000    | 12500    | 127      | 14500    | 17600    | 2803     | 28200    | 52       | 8500     | 85.81    | 1400     | 39       | 2        | 22       | DISCONTINUED | DISCONTINUED | DISCONTINUED                                                                       |                                                                                         |
| 5376327.32 | 465654.99 | Z106  | 106        | May-2012 | ACTIVE  |          |          |          |          |          |          | 61300    | 35700    | 42000    | 12500    | 6566     | 2693     | 9300     | 2072     | 8086     | 50300    | 11000    | 1989     | 0        | 3950     | 3800     | 5007     | 2000         | 8,000        | LFG infrastructure on North Face interim closure (box lid)                         |                                                                                         |
| 5376257.97 | 465597.96 | Z115  | 115        |          | Y       |          |          |          |          |          |          |          |          |          |          | 61800    | ---      | 6560     | 12900    | MISSED   | 1        | MISSED   | MISSED   | MISSED   | MISSED   | MISSED   | MISSED   |              | DISCONTINUED | DISCONTINUED                                                                       |                                                                                         |
| 5376314.21 | 465611.88 | Z118  | 118        | Jul-2014 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          | 12600    | 3600     | MISSED   | 9639     | 10       | 25.4     | 1032     | 1407     | 2487     | 369      | 2        |              | MISSED       | Hole in tarp                                                                       |                                                                                         |
| 5376296.43 | 465718.43 | Z119  | 119        | Jul-2014 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          | 15900    | 15900    | 16200    | 7000     | 4773     | 6966     | 8890     | 3100     | 9632     | 700      | 2400     |              | MISSED       | 4 holes along LFG pipe                                                             |                                                                                         |
| 5375891.79 | 465602.61 | Z122  | 122        | Mar-2017 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | MISSED   | 8,500    | 7,224    | MISSED   | 65       | 2,444    | 1,077    |              | 1,015        | Concrete box infrastructure with black lid, across and up the road from wheel wash |                                                                                         |
| 5375891.79 | 465602.61 | Z123  | 123        | Mar-2017 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | MISSED   | 8,400    | 365      | MISSED   | 28747    | 25,600   | 0        | 0            | 0.0%         | Buried                                                                             |                                                                                         |
| 5376156.54 | 465848.29 | Z124  | 124        | Mar-2017 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | MISSED   | 6,300    | 6,645    | 3,288    | MISSED   | 2,043    | 693      | 2,900        | MISSED       | Concrete box with metal hatch by road                                              |                                                                                         |
| 5376155.12 | 465848.01 | Z125  | 125        | Mar-2017 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | MISSED   | 14,000   | 3,002    | 5,028    | MISSED   | 10,100   | 700      | 1,600        | 5,034        | Concrete box with metal hatch by road, adjacent to Z124, slightly south            |                                                                                         |
| 5376147.43 | 465854.57 | Z126  | 126        | Jul-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 9,400    | 456      | 130          | 14,000       | Concrete box with metal hatch by road, uphill of Z125                              |                                                                                         |
| 5376276.39 | 465621.81 | Z127  | 127        | Aug-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 21,400   | 75,000       | 6,600        | 7,100                                                                              | Metal culvert parallel to road, flowing downhill into Toutle Valley                     |
| 5376286.65 | 465651.33 | Z128  | 128        | Sep-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 3,400    | 2,120        | 7,600        | 15,000                                                                             | Inside casing of Gw well 90-2-1 (90-1-1 reading: 1.3ppm methane, 0.150ppm H2S in 2023)  |
| 5376281.02 | 465652.79 | Z129  | 129        | Oct-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 8,900    | 2,670        | 1,800        | MISSED                                                                             | Large hole in black tarp with metal pole sticking out, 50ft south of well #90           |
| 5376282.15 | 465729.97 | Z130  | 130        | Nov-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1,686    | 1,111        | 2,900        | 3,300                                                                              | Hole in tarp with metal poking out                                                      |
| 5376286.60 | 465730.09 | Z131  | 131        | Dec-2020 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1,430    | 1,905        | 950          | 3,300                                                                              | Hole in tarp between bench roads, downhill of Z130. Rock poking out of hole in the tarp |
| 5376359.74 | 465654.26 | Z132  | 132        | Jan-2021 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 2,302    | 391          | MISSED       | MISSED                                                                             | Hole in tarp (large rock poking through), near bench road and black pipe                |
| 5376209.99 | 465672.68 | Z133  | 133        | Jul-2021 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 3,000    | MISSED       | 0            | Buried 2023                                                                        |                                                                                         |
| 5376197.89 | 465653.66 | Z134  | 134        | Jul-2021 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 14,000   | MISSED       | 5            | Flange on black pipe at top of slope                                               |                                                                                         |
| 5376280.91 | 465730.54 | Z135  | 135        | Jul-2021 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 2,200    | MISSED       | MISSED       | Hole in tarp with metal rebar                                                      |                                                                                         |
| 5376338.40 | 465659.67 | Z136  | 136        | Aug-2022 | ACTIVE  |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 4,400    | 2,800        |              | Large hole in black tarp with rotten stump tree stump sticking out of hole         |                                                                                         |

Notes:

|  |                         |
|--|-------------------------|
|  | Methane over 1,000 ppm  |
|  | Methane under 1,000 ppm |

## **APPENDIX F**

### **Upcoming Project: RNG Facility**

- F1 Expected Flows Gas Characteristics
- F2 Equipment Specifics
- F3 Hartland Biogas Upgrading Facility Site Plan and Interconnection Station / Pipeline
- F4 Isometric View

## Appendix F1 Expected Flows Gas Characteristics

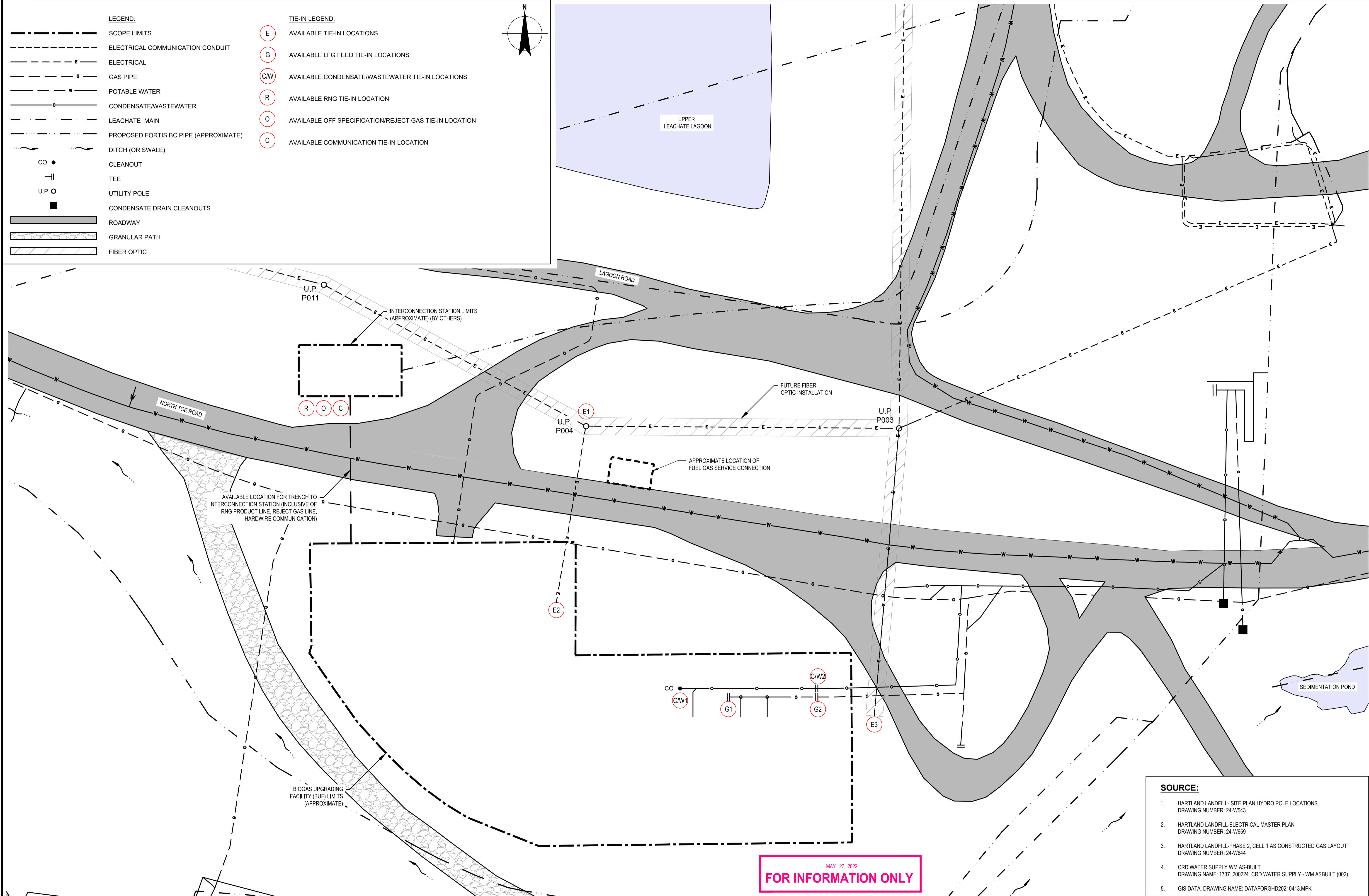
| Parameter                                  | Unit                      | Landfill Gas Characteristics |
|--------------------------------------------|---------------------------|------------------------------|
| Methane (CH <sub>4</sub> )                 | %-vol                     | Minimum 30                   |
| Sand, dust, gums, oil and other impurities | -                         | Any                          |
| Hydrogen Sulphide (H <sub>2</sub> S)       | mg/m <sup>3</sup> (ppm)   | 0 – 280<br>(0 – 200)         |
| H <sub>2</sub> O                           | mg/m <sup>3</sup> (%-vol) | 0-49,8401 (0-7)*             |
| Hydrocarbon dew point                      | -                         | Any                          |
| Total Sulphur                              | mg/m <sup>3</sup>         | <130                         |
| Carbon dioxide (CO <sub>2</sub> )          | %-vol                     | 25 – 45                      |
| Oxygen (O <sub>2</sub> )                   | %-vol                     | <3.5                         |
| Temperature                                | Deg C                     | 0-40*                        |
| Total Siloxanes                            | mg/m <sup>3</sup>         | 0 – 200                      |
| Carbon Monoxide                            | %-vol                     | ND (<0.05)                   |
| Ammonia                                    | mg/m <sup>3</sup>         | <3                           |
| Nitrogen (N <sub>2</sub> )                 | %-vol                     | ≤30%                         |
| Bacteria and pathogens                     | Impurity filter           | Any                          |
| Pressure (Vacuum)                          | Inches of Water Column    | 20 – 40                      |

\*LFG parameters H<sub>2</sub>O and temperature are based on typical LFG characteristics and not data collected from the Hartland Landfill Site.

## Appendix F2 Equipment Specifics

| Equipment                | Specifics                                       |
|--------------------------|-------------------------------------------------|
| <b>Enclosed Flare</b>    | EFR 96-30 Series Temp Controlled Enclosed Flare |
| <b>Candlestick Flare</b> | Anguil Hero Flare F25U4 Utility Flare           |
| <b>Blower</b>            | Continental Industrie, model 051A.06            |

Appendix F3 Hartland Biogas Upgrading Facility Site Plan and Interconnection Station / Pipeline

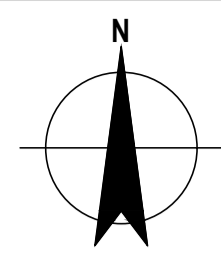


**LEGEND:**

|               |                                       |
|---------------|---------------------------------------|
| ---           | SCOPE LIMITS                          |
| - - - - -     | ELECTRICAL COMMUNICATION CONDUIT      |
| - - - - - E   | ELECTRICAL                            |
| - - - - - G   | GAS PIPE                              |
| - - - - - W   | POTABLE WATER                         |
| - - - - - C/W | CONDENSATE/WASTEWATER                 |
| - - - - - L   | LEACHATE MAIN                         |
| - - - - - F   | PROPOSED FORTIS BC PIPE (APPROXIMATE) |
| - - - - - D   | DITCH (OR SWALE)                      |
| CO ●          | CLEANOUT                              |
| — —           | TEE                                   |
| U.P. ○        | UTILITY POLE                          |
| ■             | CONDENSATE DRAIN CLEANOUTS            |
| ▬             | ROADWAY                               |
| ▨             | GRANULAR PATH                         |
| ▧             | FIBER OPTIC                           |

**TIE-IN LEGEND:**

|       |                                                        |
|-------|--------------------------------------------------------|
| (E)   | AVAILABLE TIE-IN LOCATIONS                             |
| (G)   | AVAILABLE LFG FEED TIE-IN LOCATIONS                    |
| (C/W) | AVAILABLE CONDENSATE/WASTEWATER TIE-IN LOCATIONS       |
| (R)   | AVAILABLE RNG TIE-IN LOCATION                          |
| (O)   | AVAILABLE OFF SPECIFICATION/REJECT GAS TIE-IN LOCATION |
| (C)   | AVAILABLE COMMUNICATION TIE-IN LOCATION                |

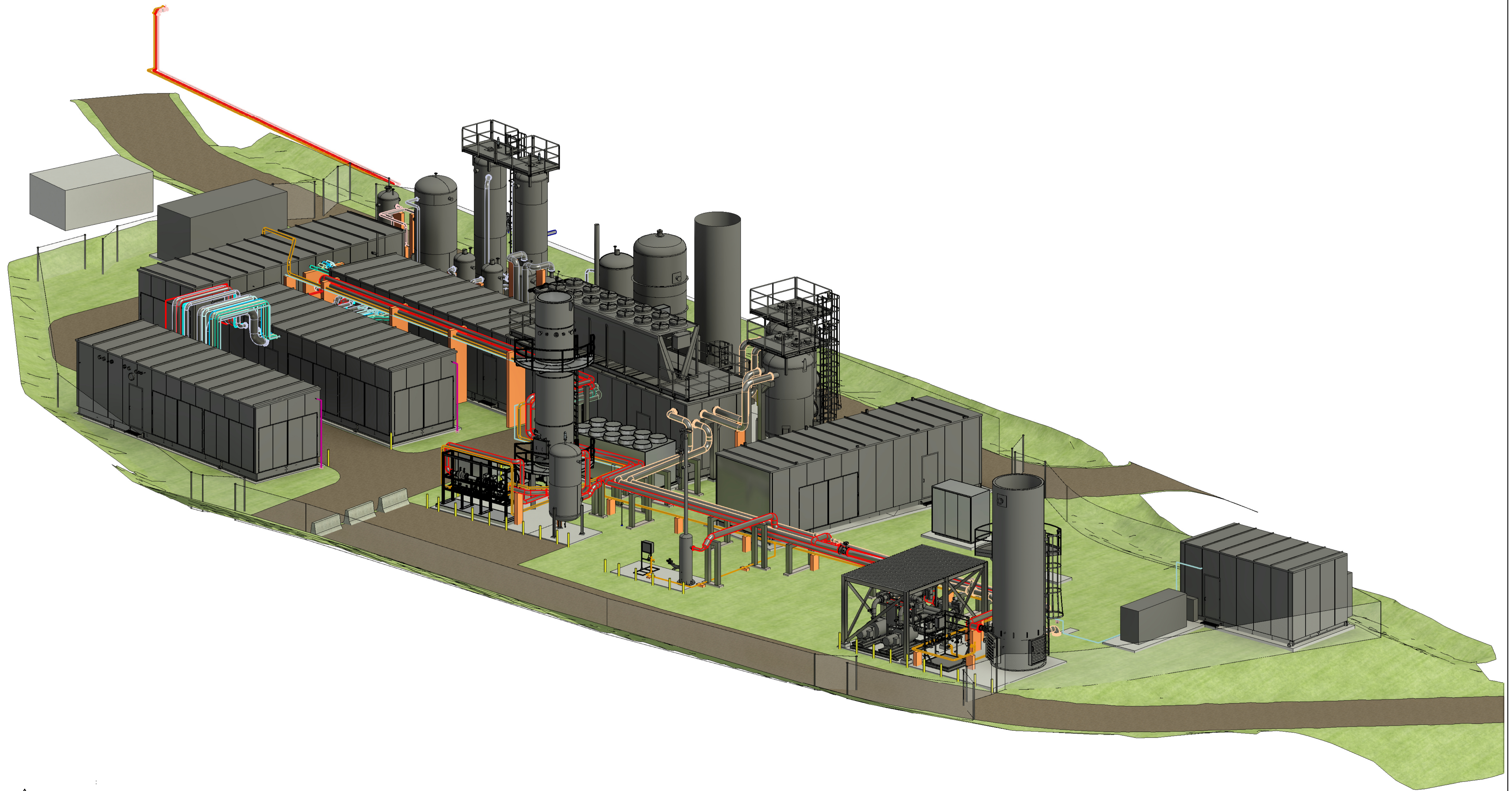


MAY 27 2022  
**FOR INFORMATION ONLY**

- SOURCE:**
- HARTLAND LANDFILL- SITE PLAN HYDRO POLE LOCATIONS. DRAWING NUMBER: 24-W543
  - HARTLAND LANDFILL-ELECTRICAL MASTER PLAN DRAWING NUMBER: 24-W659
  - HARTLAND LANDFILL-PHASE 2, CELL 1 AS CONSTRUCTED GAS LAYOUT DRAWING NUMBER: 24-W644
  - CRD WATER SUPPLY WM AS-BUILT DRAWING NAME: 1737\_200224\_CRD WATER SUPPLY - WM ASBUILT (002)
  - GIS DATA, DRAWING NAME: DATAFORGHD20210413.MPK

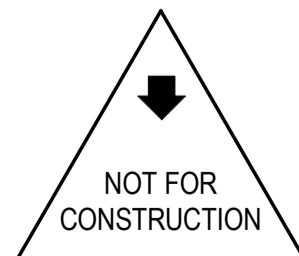
|                                                                                                                             |                                                                                                                                                                  |                                          |                                          |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------|----------------------------------------------------------------------------------------|------|-----------------------------|-------|--|-------------|---------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----|------|-----------------------------|------|--|--|--|--|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                                                                                                             | <table border="1"> <tr><td>BY</td><td>DATE</td><td>REVISION HISTORY - COLUMN 1</td><td>ENG.</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> |                                          |                                          |      | BY                                                                                     | DATE | REVISION HISTORY - COLUMN 1 | ENG.  |  |             |                                       |  | <table border="1"> <tr><td>BY</td><td>DATE</td><td>REVISION HISTORY - COLUMN 2</td><td>ENG.</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table> |  |  |  | BY | DATE | REVISION HISTORY - COLUMN 2 | ENG. |  |  |  |  | <p>Capital Regional District   Parks &amp; Environmental Services</p> | <p>HARTLAND RNG INITIATIVE</p> <p>HARTLAND BIOGAS UPGRADING FACILITY SITE PLAN</p> |  | <p>DESIGNED J.W. SURVEYED N/A</p> <p>DRAWN S.H. START 01/02/21</p> <p>SCALE HORIZONTAL 1:200 CHECKED R.L.</p> <p>SCALE VERTICAL 1:200 APPROVED D.B.</p> | <p>PROJECT REFERENCE 11219924-03-01 DRAWING NUMBER FIGURE 3 ISSUE A SHIT. No. OF 01</p> |
|                                                                                                                             | BY                                                                                                                                                               | DATE                                     | REVISION HISTORY - COLUMN 1              | ENG. |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
|                                                                                                                             |                                                                                                                                                                  |                                          |                                          |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
| BY                                                                                                                          | DATE                                                                                                                                                             | REVISION HISTORY - COLUMN 2              | ENG.                                     |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
|                                                                                                                             |                                                                                                                                                                  |                                          |                                          |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
| <table border="1"> <tr><td>1</td><td>02/19/21</td><td>SITE PLAN AND AVAILABLE TIE-IN LOCATIONS</td><td> </td></tr> </table> | 1                                                                                                                                                                | 02/19/21                                 | SITE PLAN AND AVAILABLE TIE-IN LOCATIONS |      | <table border="1"> <tr><td>No.</td><td>DATE</td><td>ISSUE</td><td> </td></tr> </table> | No.  | DATE                        | ISSUE |  | <p>SEAL</p> | <p>Making a difference...together</p> |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
| 1                                                                                                                           | 02/19/21                                                                                                                                                         | SITE PLAN AND AVAILABLE TIE-IN LOCATIONS |                                          |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |
| No.                                                                                                                         | DATE                                                                                                                                                             | ISSUE                                    |                                          |      |                                                                                        |      |                             |       |  |             |                                       |  |                                                                                                                                                                  |  |  |  |    |      |                             |      |  |  |  |  |                                                                       |                                                                                    |  |                                                                                                                                                         |                                                                                         |

Filename: 2\_VARCHIVE\CENTRAL\24W\24W1045\WAT27\_2022\_REVISED\_FIGURE 3 - HARTLAND BIOGAS UPGRADING FACILITY SITE PLAN.DWG Last saved by: HLODAE(2022-05-27) Last Plotted: 2022-05-27

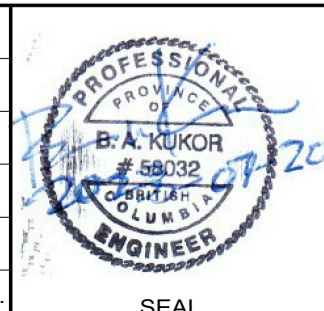


NOTES

1. ELEVATIONS AND DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. FOR PIPING MATERIALS PLEASE REFER TO HRRG P&ID LEGEND WE-PID-2020-100-3 SHEETS 1 THROUGH 3.



| ISSUE | DATE | BY | REVISION DESCRIPTION | ENG. | SEAL |
|-------|------|----|----------------------|------|------|
|       |      |    |                      |      |      |



| No. | DATE      | ISSUE                   |
|-----|-----------|-------------------------|
| 0   | JUL. 2023 | ISSUED FOR CONSTRUCTION |



| Capital Regional District   Parks & Environmental Services |        |          |          |
|------------------------------------------------------------|--------|----------|----------|
| DESIGNED                                                   | K.H.   | SURVEYED | -        |
| DRAWN                                                      | C.F.   | START    | 11/21/22 |
| SCALE HORIZONTAL                                           | N.T.S. | CHECKED  | B.K.     |
| SCALE VERTICAL                                             | -      | APPROVED | B.K.     |

| HARTLAND LANDFILL GAS UPGRADING FACILITY |                                |                |      |       |             |
|------------------------------------------|--------------------------------|----------------|------|-------|-------------|
| ISOMETRIC VIEW                           |                                |                |      |       |             |
| PROJECT REFERENCE                        | ERM 2022-008<br>WSP WW22032091 | DRAWING NUMBER | M100 | ISSUE | SHT. No. OF |
|                                          |                                |                |      | 0     |             |