

Project Summary, Milestones, Payment Schedule and Quarterly Update Reports

Report Date (Q1 April 1 – June 30, 2024)

Project Summary

Project Title:	Temporal variability in methane and air pollutant emissions from abandoned, inactive, and suspended oil and gas (AISOG) wells
Lead Investigator:	Mary Kang
AUPRF Managed Funds Award Amount:	\$124,979
PTAC Technical Champion:	Sean Hiebert
GL #:	2023-ARPC-04
Project Total Cost (all years)	\$124,979
Leveraged Cash Funding (all years)	\$43,000
Leveraged In-Kind Funding (all years)	\$0
Start Date:	October 19, 2023
Completion Date:	March 30, 2025
Final Report Due Date:	March 30, 2025

Provide a brief description of the challenges this project aims to address and how industry and others will benefit including what the anticipated impact is. (i.e., cost reductions, improved environmental performance, impact on regulation, enhanced access to resources). (Maximum 150 words or less)

1. Original documentation of scope and key questions

The objectives of the project are:

1. Short-term (hourly) temporal variability in methane emissions from AISOG wells,
2. Seasonal temporal variability in methane emission from AISOG wells,
3. Methane emissions from AISOG wells before and after plug and abandonment and site restoration, and
4. Volumetric flow rates and gas composition of surface casing vent flows.

The anticipated outcomes are for greenhouse gas inventories, provincial regulatory reviews, and innovations in the energy and environmental monitoring industry.

2. Reference to knowledge gap analysis

The knowledge gaps being addressed related to “Air quality and climate change” and “Well abandonment”, with a focus on methane emissions and data analysis.

List key milestones with invoicing schedule. Include quarterly estimates.

Milestone	Expenditures ¹	Fiscal Quarter ²
1 Field campaign design	39,207	25,943
2 Summary of field campaign	0	0
3 Preliminary measurements results	0	0
4		
5		
Total	39,207	25,943

Quarterly Update

Exception Highlight for the Quarter:

(any exceptions to the original project scope, timelines, payment schedule OR early significant findings)
– this can be left blank if no changes are needed, and do not include exceptions already reported

1. Field campaign 2024 design and planning, including materials/supplies/equipment preparation and securing field site access.
2.
3.

¹ All expenditures in Canadian dollars and must exclude GST and other applicable taxes

² Quarters are based on fiscal calendar e.g., Q1 Apr 1 – Jun 30, Q2 Jul 1 – Sept 30, Q3 Oct 1 – Dec 31, Q4 Jan 1 – Mar 31.

Update on scope, key questions, gap analysis and work performed this quarter (include any requests for assistance to PTAC or the committees)

The scope has remained the same, except for Objective 3. It has been challenging get access to wells before and after plugging, abandonment, and site restoration.

We appreciated all the help in getting site access for field measurements in 2024.

In this quarter, we have completed design and planning of the 2024 field campaign and started the field campaign. The field campaign design and planning include materials/supplies/equipment preparation and securing field site access through operators and regulators. The field campaign began on June 7, 2024

Paola Prado (the graduate student leading the field campaign) presented the field measurement plan at the PTAC Methane Leadership Summit in April 2024.

Budget Summary Update

Revenues and Expenditures	Total Budget	Budget to date	Project charges this quarter	Project charges to date	Variance of budget to actuals to date	Forecasted Total Project (no. of quarters of actual plus	Variance of total budget to forecast
Funds received And from whom	124,979 (PTAC)	124,979	25,943	39,207	0	124,979	0
Expenses	124,979	124,979	25,943	39,207	0	124,979	0

Variance analysis (includes changes to invoicing schedule)

1. The project charges are the overhead charges from McGill University and travel advances for Paola Prado to attend the PTAC Methane Leadership Summit in April 2024.
2. We have applied for an NSERC Alliance leveraging these funds but are still waiting for the results.

TOTAL PROJECT VALUE \$ _____
(Value equals the total funds committed to date for all years)

1st Year Funding \$

Confirmed Funders:					
NRCan	\$	AEP	\$	CanERIC	\$
NSERC	\$	ADOE	\$	ERA	\$
TIER	\$	CRIN	\$	AUPRF	\$
MITAC	\$	AMEP	\$	Other	\$

2nd Year Funding \$

Confirmed Funders:					
NRCan	\$	AEP	\$	CanERIC	\$
NSERC	\$	ADOE	\$	ERA	\$
TIER	\$	CRIN	\$	AUPRF	\$
MITAC	\$	AMEP	\$	Other	\$

3rd Year Funding \$

Confirmed Funders:					
NRCan	\$	AEP	\$	CanERIC	\$
NSERC	\$	ADOE	\$	ERA	\$
TIER	\$	CRIN	\$	AUPRF	\$
MITAC	\$	AMEP	\$	Other	\$

4th Year Funding \$

Confirmed Funders:					
NRCan	\$	AEP	\$	CanERIC	\$
NSERC	\$	ADOE	\$	ERA	\$
TIER	\$	CRIN	\$	AUPRF	\$
MITAC	\$	AMEP	\$	Other	\$

5th Year Funding \$

Confirmed Funders:					
NRCan	\$	AEP	\$	CanERIC	\$
NSERC	\$	ADOE	\$	ERA	\$
TIER	\$	CRIN	\$	AUPRF	\$
MITAC	\$	AMEP	\$	Other	\$