Altus Geomatics – ExACT

- The ExACT technology
- Monitoring tank vents from a vehicle-based detection platform
- Future work

Jennifer Baillie – March 30, 2020
Altus Geomatics services include:

- Land surveys
- Environmental and forestry services and consulting
- O&G emissions consulting

Capacity:
- 300 employees
- 14 offices
- 5 provinces

ExACT Emissions Monitoring

**Strengths**
- Efficient - can cover up to 100 sites per day
- Great for large-scale comparisons and under/over screening
- Quantitative emission rate estimates

**Limitations**
- Does not pinpoint emitting component
- Does not distinguish fugitives from vents
Monitoring tank vents

Challenges

- ExACT provides site-level emissions estimates
- Tank vents are tall and buoyant
- Potential to drive under a tank emission

Current mitigation

- Modify routes to optimize tank measurement capability
- Technician making observations
- Downwash effects often lead to higher CH₄ concentrations on site
Future work and solutions

Improvements to ExACT truck design
- Move inlet to a higher location on the vehicle

Improvements to ExACT service and field practice
- Integrate ExACT with OGI measurements
- Quickly rule out or confirm tank emissions on the fly
- Real-time CH$_4$ emission estimates to inform technicians
Thank you.

Questions? Contact:

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