

# Project Profile: Lime Sampling Program



## LOCATION

Edmonton, AB

## CLIENT

Confidential

## STAKEHOLDERS

Energy Company  
Agricultural Landowner

## PROJECT RELEVANCE

Development of Systematic  
Sampling Plan  
Regulator Engagement  
Waste Valorization

## CONTRACT VALUE

### SCHEDULE

Start Date:  
November 2020  
End Date:  
Ongoing

### TEAM

Shawn Samborsky  
Kevin Ducharme  
Kyla Melnyk

## PROJECT DESCRIPTION

CORE was retained to provide a management program for the sampling and valorization of 8,000 m<sup>3</sup> to 11,000 m<sup>3</sup> of lime from a clay-lined retention pond. Lime can be used as a soil amendment in agriculture as it can increase the soil pH and improve the quality of the crops by improving the resistance to plant pathogens, such as clubroot in canola crops. It also assists in improving nutrient uptake.

## SCOPE

CORE submitted a sampling plan to the Client proposing to use an excavator to remove, mix and dry the lime, and place it in stockpiles of approximately 500 m<sup>3</sup> for samples to be collected and submitted for analysis of potential contaminants and elements of interest. Based on the analytical results, the material will be moved into three categories – re-usable lime, potentially re-usable lime and non-usable lime. Consideration will then be given on the potentially re-usable lime for use as a soil amendment (or feedstock for concrete production).

## SPECIFIC SERVICES

- Site visit
- Development of field instructions for assessment
- Health and safety planning
- Lime sampling
- Tabulation and management of data in accordance with a QC/QA program
- Provision of drawings and elevation surveys
- Final reporting
- Submission and execution of a systematic sampling plan

## PROJECT OUTCOME AND TECHNIQUES

This is an ongoing project with valorized waste use expected later in 2021.