

# Landmarc Technologies, Inc.

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December 16, 2019

Darshan S. Dhillon  
Health & Environmental Investigator III  
Public Health Seattle & King County  
Solid Waste Program  
CNK-PH-1100 401 – Fifth Ave., Suite 1100  
Seattle, WA 98104

Re: REPORT OF COMPLETION OF NEWCASTLE SURFACE WATER  
INTERCEPTION TRENCH

Dear Mr. Dhillon:

I am writing per your request to report on the completion of the interception trench at Newcastle Golf. The project was approved by your letter of March 19, 2018 based on final submittal of plans from me on March 13, 2018. Construction of the project was completed November 30, 2018.

Construction was completed per the original plans with two significant changes. Those changes were as follows:

- A rock wall was added to support the steep slope created by cutting into the slope to construct the interception trench. Gravel and perforated pipe were installed behind the wall and the perforated pipe was connected to a pipe in the interception trench. This allows any seep collected behind the wall to be directed to the interception trench and pumped into the leachate manhole.
- The plan was to use an existing pipe behind the retaining wall along 156<sup>th</sup> Ave SE for a portion of the discharge connection to the leachate manhole. That proved to be infeasible during construction so a buried PVC pipeline was installed from the interception trench all the way to the leachate manhole.

The system has been in operation for over a year to date. Two maintenance actions were undertaken last winter when the interception trench was not working. A new submersible pump was installed on one occasion and the discharge pipe was jetted to remove a blockage that plugged the discharge on the second.

Photographs during construction and one year after completion are enclosed herein.

Sincerely,  
Landmarc Technologies, Inc.

Richard H. Morck



PVC Discharge Pipe to Leachate Manhole



Construction of Rock Wall



Gravel Backfill of Interception Trench (note rock wall drain pipe in lower left corner)



Completed Interception Trench (Dec. 5, 2019)