

TECHNICAL MEMORANDUM

DATE: December 5, 2022

TO: Rick Morck, Landmarc Technologies, Inc.

FROM: Lisa Gilbert

SUBJECT: Domestic Well Inventory

CC: Jeff Williamson, Coal Creek Development LLC
Jerome Cruz, Public Health - Seattle & King County
Tim O'Connor, Solid Waste Management Program, Washington State Department of Ecology
Tamara Welty, Toxics Cleanup Program, Washington State Department of Ecology

PROJECT NUMBER: 553-1625-014

PROJECT NAME: Newcastle Landfill

INTRODUCTION

Cleanup at the Newcastle Coal Creek Landfill Site was implemented under the Model Toxic Control Act (MTCA) regulations, Chapter 173-340 Washington Administrative Code (WAC), and a Prospective Purchaser Consent Decree (PPCD) between the Washington Department of Ecology and Newcastle Golf, LLC (Ecology 1995). Institutional controls in the form of a Restrictive Covenant were implemented at the site in 1996 restricting groundwater for any domestic purposes from any well within 1,000 feet of the landfill boundary. The Landfill is defined in the PPCD as the portion of the Property consisting of the former 70-acre Newcastle/Coal Creek Landfill, as shown on Figure 1.

One of the compliance requirements of the 2022 Post-Closure Maintenance Permit for the Coal Creek Closed Landfill (PR0015721) issued by Seattle & King County Public Health is to *“Prepare domestic well inventory report pursuant to the Periodic Review (June 9, 2020). Identify potential domestic wells within 1,000 feet of the landfill. Contact property owners for identified wells to determine the status of the well and evaluate potential drinking water quality issues.”* This requirement is to be completed per WAC 173-340 prior to the 2024 Periodic Review.

DOMESTIC WELL INVENTORY

Domestic wells located within 1,000 feet of the landfill were researched through the Department of Ecology Well Report Viewer. Additional sources of information reviewed included the Department of Ecology Water Rights Map, the Washington State Department of Health Source Water Assessment Program (SWAP), and King County imap. The King County Assessors' Parcel Viewer website was used to determine current parcel ownership.

Only one well (owner Ernest Swanson; 26K4) was found within 1,000 feet of the Landfill (Figure 1). This well was also identified in the previous well inventory (Hart Crowser 1986) that was prepared to support the Landfill's development and closure plan and associated environmental impact statement.

The well is located at 7331 Lakemont Boulevard approximately 1,000 feet northeast of the Landfill as shown on Figure 1. The well log is attached and indicates this well was drilled in 1983 and is 113 ft deep. It is completed in the bedrock aquifer in an upgradient direction with respect to groundwater flow (Hart Crowser 1986) and is separated from the Landfill by the Coal Creek surface water drainage.

The house on the property appears to presently be unoccupied and the well does not appear to be currently in use. King County Parcel Viewer indicates that the current owner of the property since 2016 is Coal Creek Holdings LLC and that the property remains on private water. Signage on the property indicates an application dated March 11, 2021 is on file with the City of Bellevue for a project identified as Park Pointe PUD described as “a 35 single family residence planned unit development and construction of associated sewer, water, and stormwater utilities, including a water main extension and sanitary lift station.”

SUMMARY

The updated well inventory search found only one domestic well within 1,000 feet of the Landfill (Swanson 26K4). Based on the location of the well in an upgradient direction from the Landfill, the unoccupied status of the property, and the apparent redevelopment plans to include public water supply and likely decommissioning of the well, there does not appear to be an issue with potential drinking water quality impacts associated with this well.

REFERENCES

- Ecology (Washington State Department of Ecology). 1995. Prospective Purchaser Consent Decree No. 95-2026414-OSEA. October 1995.
- Ecology. 2019. Periodic Review, Newcastle Coal Creek Landfill, Facility Site ID#: 2044, Cleanup Site ID#: 4812, 15500 Six Penny Lane, Newcastle, WA 98059. December 2019.
- Ecology. 2020. Notice of Periodic Review Conducted at the following Cleanup Site: Name: Newcastle Coal Creek Landfill, Facility Site ID#: 2044, Cleanup Site ID#: 4812, 15500 Six Penny Lane, Newcastle, WA 98059. Letter to David Hein Newcastle Golf LLC. June 9, 2020.
- Hart Crowser & Associates, Inc. 1986. Hydrogeologic and Geotechnical Assessment, Newcastle Landfill, King County, Washington. Prepared for Coal Creek Development Company and Parametrix, Inc. April 11, 1986.

ATTACHMENTS

Figure 1 Well and Sampling Locations Detail Map, Newcastle Demolition Landfill

Well Log



Service Credits: Sources: Esri, HERE, Garmin, Intermap, ...

Date: 11/17/2021 Author: worshahy Path: U:\PSO\Projects\Clients\1625-014 Newcastle Landfill Mon\99\Svs\GIS\Mapdocs\Figure1_SamplingLocations.mxd

Source:
Parametrix

- Monitoring Well Location
- Leachate Sample Location
- Surface Water/Seep Sample Location
- Domestic Well Location
- 1,000-foot Buffer Zone
- Stream
- Leachate Collection Line
- Original 70-acre Landfill Boundary

Figure 1
 Well and Sampling Locations Detail Map
 Newcastle Demolition Landfill

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

24/5-26/K

Fl. and First Copy with
 Del. Ecology
 Sec. Copy - Owner's Copy
 Thir. Copy - Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No.

(1) OWNER: Name ERNEST SWANSON

Address 7331 LAKEVIEW BLVD S.E. ISS. WA

(2) LOCATION OF WELL: County KING

Bearing and distance from section or subdivision corner

APR 21 9 01 AM '83

(3) PROPOSED USE: Domestic Industrial Municipal
 Irrigation Test Well Other

(4) TYPE OF WORK: Owner's number of well (if more than one) _____
 New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

(5) DIMENSIONS: Diameter of well 6 inches.
 Drilled 113 ft. Depth of completed well 113 ft.

(6) CONSTRUCTION DETAILS:
 Casing installed: 6" Diam. from 7 ft. to 54 ft.
 Threaded 4.75" Diam. from 33 ft. to 113 ft.
 Welded " Diam. from " ft. to " ft.

Perforations: Yes No
 Type of perforator used: SAW CUT
 SIZE of perforations 1/8 in. by 6 in.
 perforations from 108 ft. to 113 ft.
 perforations from " ft. to " ft.
 perforations from " ft. to " ft.

Screens: Yes No
 Manufacturer's Name _____
 Type _____ Model No. _____
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.
 Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes No Size of gravel: _____
 Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes No To what depth? 18 ft.
 Material used in seal: BENTONITE
 Did any strata contain unusable water? Yes No
 Type of water? _____ Depth of strata _____
 Method of sealing strata off _____

(7) PUMP: Manufacturer's Name N/A
 Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation _____ ft.
 Static level 14 ft. below top of well Date 4-5-83
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? _____
 Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
 Baller test 9 gal./min. with 8.2 ft. drawdown after 1 1/2 hrs.
 Artesian flow N/A g.p.m. Date 4-5-83
 Temperature of water _____ Was a chemical analysis made? Yes No

(10) WELL LOG: Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
BROWN CLAY	0	4
BROWN HARD PAN	4	11
GRAY HARD PAN	11	41
PEAT	41	43
GRAY HARD PAN	43	51
BROWN moderately dense SAND-Stone	51	87
Light GRAY moderately dense SAND Stone	87	96
Light BROWN moderately dense SAND Stone	96	113

* WATER ENTERING Hole somewhere BETWEEN 110' & 113'

Work started 3-31, 1983 Completed 4-7, 1983

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME BURAN DRILLING COMPANY
 (Person, firm, or corporation) (Type or print)
 Address 1519 DAYTON ST. N.E. RENTON
 [Signed] Jan Buras
 (Well Driller)
 License No. 2690 Date 4-18, 1983