



**BC Ministry of Transportation and Infrastructure**

c/o Mr. Paul Savinkoff, Sr. Geoscientist  
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Victoria, B.C.  
V8W 9T5

## PERFORMANCE VERIFICATION PLAN

**Site ID:** 0018959

**Date:** November 9, 2016

**Site Location:** 11445 124<sup>th</sup> Street, Surrey, British Columbia. The site is defined by the legal description: Lot 20 Block 4 Section 7 Block 5 North Range 2 West New Westminster District Plan 1755 Except Plan EPP600

**Author:** Ryan Loveridge, MSc, RPBio

**Name of Firm Preparing the PVP:** Core6 Environmental Ltd

**Site Type:** 1A

**Required actions to confirm HHERA Assumptions:**

- A groundwater monitoring plan is to be developed and implemented for the site to further confirm the conclusions of the post-remediation program. Annual monitoring to be conducted for a period of two years at the locations shown on Figure 1 and for the parameters listed in Table 1. If the monitoring results over the two-year period confirm the historical monitoring results and support the findings of the risk assessment then monitoring would cease.

**Summary Rationale for Selecting Required PVP Element(s):**

- Groundwater at the site currently meets Drinking Water and Aquatic Life standards. While not anticipated, BTEX and VPHw6-10 could in the future become present within site groundwater at concentrations in excess of the current non-detect values.

**Professional Signatures:**

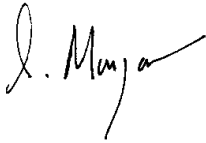
The opinions, advice and recommendations expressed in this performance verification plan are made in accordance with generally accepted principles and practices as recognized by members of the applicable profession or discipline practising at the same time and in the same or similar locations.



**Ryan Loveridge** MSc, RPBio  
*Senior Risk Assessor*



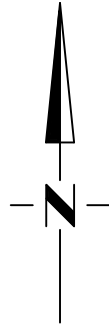
**Geoff Wickstrom** MSc, RPBio, EP  
*Senior Risk Assessor*



**Stephen Munzar** MSc, PGeo  
*Senior Hydrogeologist*

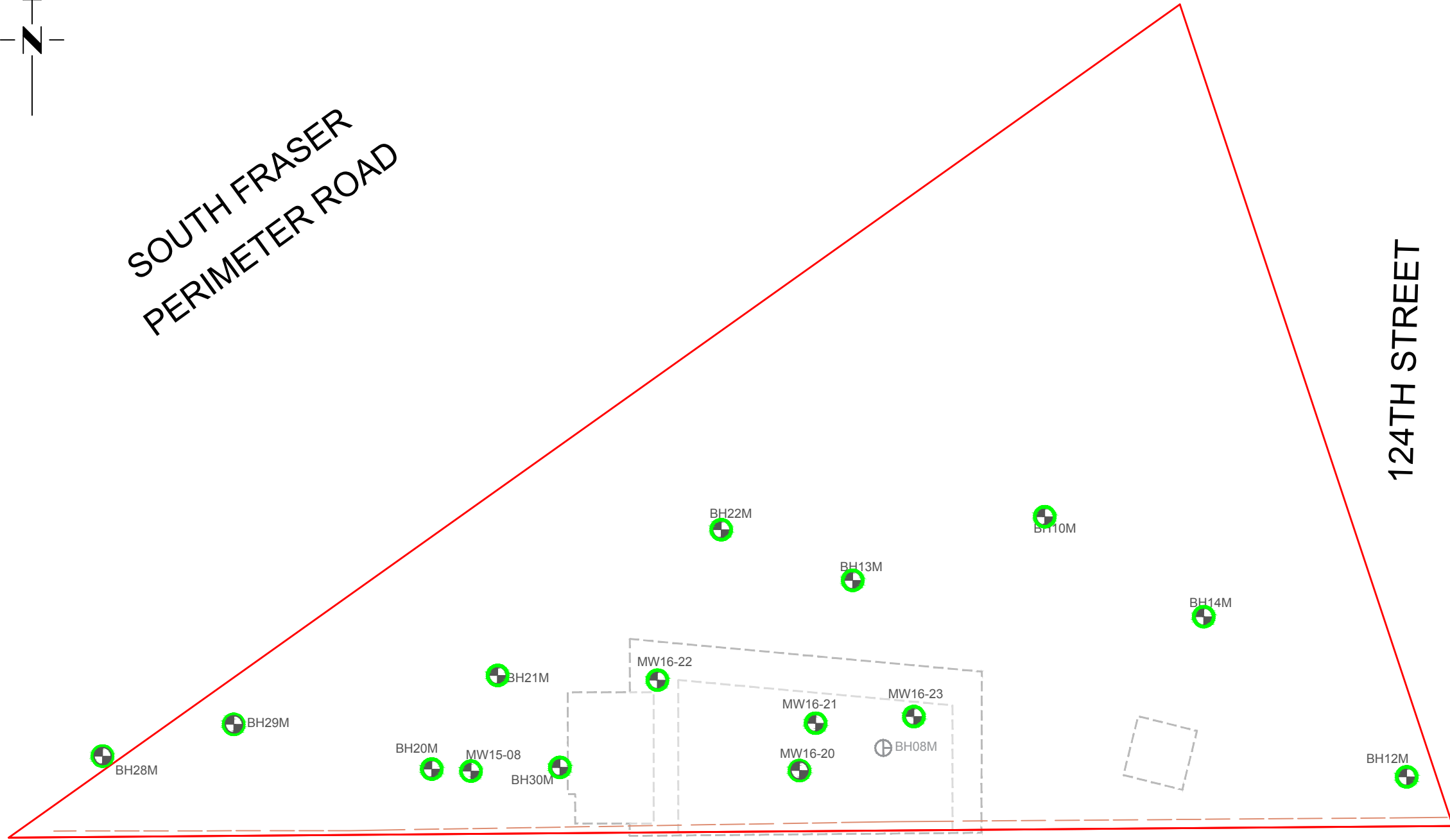
**Table 1: PVP Monitoring Plan**

Location	Frequency	Parameters
MW16 – 20  BH30M	Annually: October/November 2017 October/November 2018 (following which the need for further groundwater monitoring will be reassessed).	Benzene Ethylbenzene Toluene Xylenes VPHw



SOUTH FRASER  
PERIMETER ROAD

124TH STREET



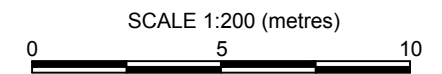
**NOTES:**

- 1) Plan derived from McElhanney Consulting Services Ltd. Dwg 15364-05-05
- 2) Concentrations presented in ug/L
- 3) Concentrations compared to BC CSR Aquatic Freshwater and Drinking Water Standards (Schedules 6 and 10).

**LEGEND:**

- Monitoring Well Location
- Site Boundary
- Fence Line
- Sample Concentration Less Than Applicable Standard
- Sample Concentration Exceeds Applicable Standard
- Excavation Extent (Surface)
- Excavation Extent (Depth)

AW Aquatic Water  
 DW Drinking Water  
 CSR Contaminated Site Regulation  
 Vhw Volatile Hydrocarbons  
 VPHw Volatile Petroleum Hydrocarbons



DATE	MAY 2016
DRAWN	AR
CHECKED	GB
APPROVED	KB



CLIENT  
 BC Ministry of Transportation and Infrastructure

PROJECT TITLE  
 Post Remediation Monitoring Locations  
 11445 124 Street, Surrey, BC

DRAWING TITLE  
 Groundwater Post Remediation Results

PROJECT No.  
 00232

FIGURE No.  
 FIGURE 1