



LEGEND

- FORMER COLLIERY OPERATION FEATURE/FACILITY
- BOREHOLE LOCATION (SEACOR)
- BOREHOLE LOCATION (NDM)
- BOREHOLE LOCATION COMPLETED AS A MONITOR WELL (SEACOR, 2004 & 2005)
- BOREHOLE LOCATION COMPLETED AS A MONITOR WELL (NDM, 1995)
- FORMER MONITORING WELL (DESTROYED)
- INDICATES CONCENTRATIONS ARE BELOW THE CSR AWM AND AWF STANDARDS
- CONTAMINATED SITES REGULATION, MARINE AQUATIC LIFE STANDARDS
- CONTAMINATED SITES REGULATION, FRESHWATER AQUATIC LIFE STANDARDS
- GREEN INDICATES CONCENTRATIONS ARE BELOW CSR AWM AND CSR AWF STANDARDS
- BLUE INDICATES CONCENTRATIONS IN EXCESS OF CSR AWM STANDARDS
- RED INDICATES CONCENTRATIONS IN EXCESS OF CSR AWM AND CSR AWF STANDARDS
- MAGENTA INDICATES THAT THE DETECTION LIMITS EXCEED THE CSR AWM AND/OR AWF STANDARDS
- PARAMETER NOT ANALYSED ON DATE INDICATED
- "Italicized" INDICATES CONCENTRATIONS IN EXCESS OF CSR AWF STANDARDS

- NOTE (1): ALL GROUNDWATER SAMPLES SUBMITTED FOR ANALYSIS OF LEPH/HEPH (OR EPH), PAHs AND/OR VOCs WERE BELOW THE BC CSR AWM AND AWF STANDARDS
- NOTE (2): ALL METAL ANALYTICAL RESULTS REPORTED IN µg/L
- NOTE (3): ALL SULPHATE ANALYTICAL RESULTS REPORTED IN mg/L

IN CHEMISTRY TABLES:

- As – Arsenic
- Cd – Cadmium
- Co – Cobalt
- Cr – Chromium
- Cu – Copper
- Pb – Lead
- Ni – Nickel
- Se – Selenium
- Th – Thallium
- Zn – Zinc

BH17	Metals	Sulphate
22-Feb-05	Cd, Cr, Co, Cu, Ni, Zn	X
11-Sep-05	Cd, Cr, Co, Cu, Ni, Zn	X
14-Dec-05	Cr, Co, Cu, Zn	X
4-Apr-06 (L Tide)	Cd, Co, Cu, Ni, Zn	n/a

BH6D	Metals	Sulphate
3-Sep-04	Cd, Co, Cu, Ni, Zn	X
11-Sep-05	Cd, Co, Cu, Ni, Zn	X

BH6S	Metals	Sulphate
3-Sep-04	Cd, Co, Cu, Ni, Zn	X
04-Feb-05	Cd, Co, Cu, Ni, Zn	X
11-Sep-05	Cd, Co, Cu, Ni, Zn	X

BH16	Metals	Sulphate
22-Feb-05	Cd, Co, Ni, Zn	X
11-Sep-05	Cd, Co, Cu, Ni, Zn	X
18-Sep-05	Cd, Co, Cu, Ni, Zn	X
13-Oct-05	Cd, Co, Cu, Ni, Zn	n/a
14-Dec-05 (H Tide)	Cd, Co, Cu, Ni, Zn	X
13-Dec-05 (L Tide)	Cd, Co, Cu, Ni, Zn	X
26-Jan-06	Cd, Co, Cu, Ni, Zn	n/a
4-Apr-06 (L Tide)	Cd, Co, Cu, Ni, Zn	n/a

BH22	Metals	Sulphate
11-Sep-05	Cd, Co, Ni, Zn	X
14-Dec-05	Cd, Co, Cu, Ni, Zn	X

BH15	Metals	Sulphate
22-Feb-05	Co, Ni, Zn	X
11-Sep-05	Co, Ni, Zn	X
14-Dec-05	Co, Ni, Zn	X
04-Apr-06 (L Tide)	Cd, Co, Ni, Zn	n/a

BH21	Metals	Sulphate
11-Sep-05	Co, Ni, Zn	X
14-Dec-05	Co, Cu, Ni, Zn	n/a
4-Apr-06 (L Tide)	Co, Cu, Zn	n/a

BH8S	Metals	Sulphate
04-Apr-06 (L Tide)	Cd, Ni, Zn	–

BH8D	Metals	Sulphate
3-Sep-04	Co, Ni, Zn	X
11-Sep-05	Co	X
14-Dec-05	Co	X
04-Apr-06 (L Tide)	Co, Zn	n/a

BH20	Metals	Sulphate
11-Sep-05	Cd, Co, Cu, Ni, Zn	X
18-Sep-05	Cd, Co, Ni, Zn	X
13-Oct-05	Cd, Co, Ni, Zn	n/a
14-Dec-05 (H Tide)	Cd, Co, Cu, Ni, Zn	–
13-Dec-05 (L Tide)	Cd, Co, Cu, Ni, Zn	X
26-Jan-06	Cd, Co, Cu, Ni, Zn	n/a
4-Apr-06 (L Tide)	Cd, Co, Cu, Ni, Zn	n/a

BHK-3	Metals	Sulphate
4-Feb-05	–	–

HART CREEK OUTFLOW CHANNELS

WASTE COAL PILE

BH3	Metals	Sulphate
28-Jan-04	–	X
3-Sep-04	Cd, Co, Ni, Zn	X

BH2	Metals	Sulphate
28-Jan-04	Co, Ni	X
3-Sep-04	Co, Ni, Zn	X

BH5	Metals	Sulphate
28-Jan-04	Co, Ni, Zn	X
3-Sep-04	Co, Ni, Zn	X

BH1	Metals	Sulphate
28-Jan-04	Cd, Co, Cu, Ni, Zn	X
3-Sep-04	Co, Cu, Ni, Zn	X

BH4	Metals	Sulphate
28-Jan-04	Cd, Co, Ni, Zn	X

BH7D	Metals	Sulphate
22-Feb-05	Cu	–

KP AREA 1

THIS DRAWING IS FOR CONCEPTUAL PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY AND NOT ALL STRUCTURES ARE SHOWN.

0 25 50 100 150 m
METRES (APPROX.)

DRAWING COMPILED FROM McELHANNEY ASSOCIATES
SURVEYORS DRAWING FILE NO. 2212-04924-0



WEST FRASER MILLS LTD. AND
KENSINGTON ISLAND PROPERTIES LTD.
WASTE COAL PILE
UNION BAY, BC

REVISED PROBLEM FORMULATION AND
PRELIMINARY QUANTITATIVE RISK ASSESSMENT

SITE GROUNDWATER CHEMISTRY RESULTS

SCALE: AS SHOWN DATE: 06/14/06 FILE NAME: 201-01022-01-C5 JOB No.: 201.01022.01 CHK'D: EC MADE: TMS FIG: 5