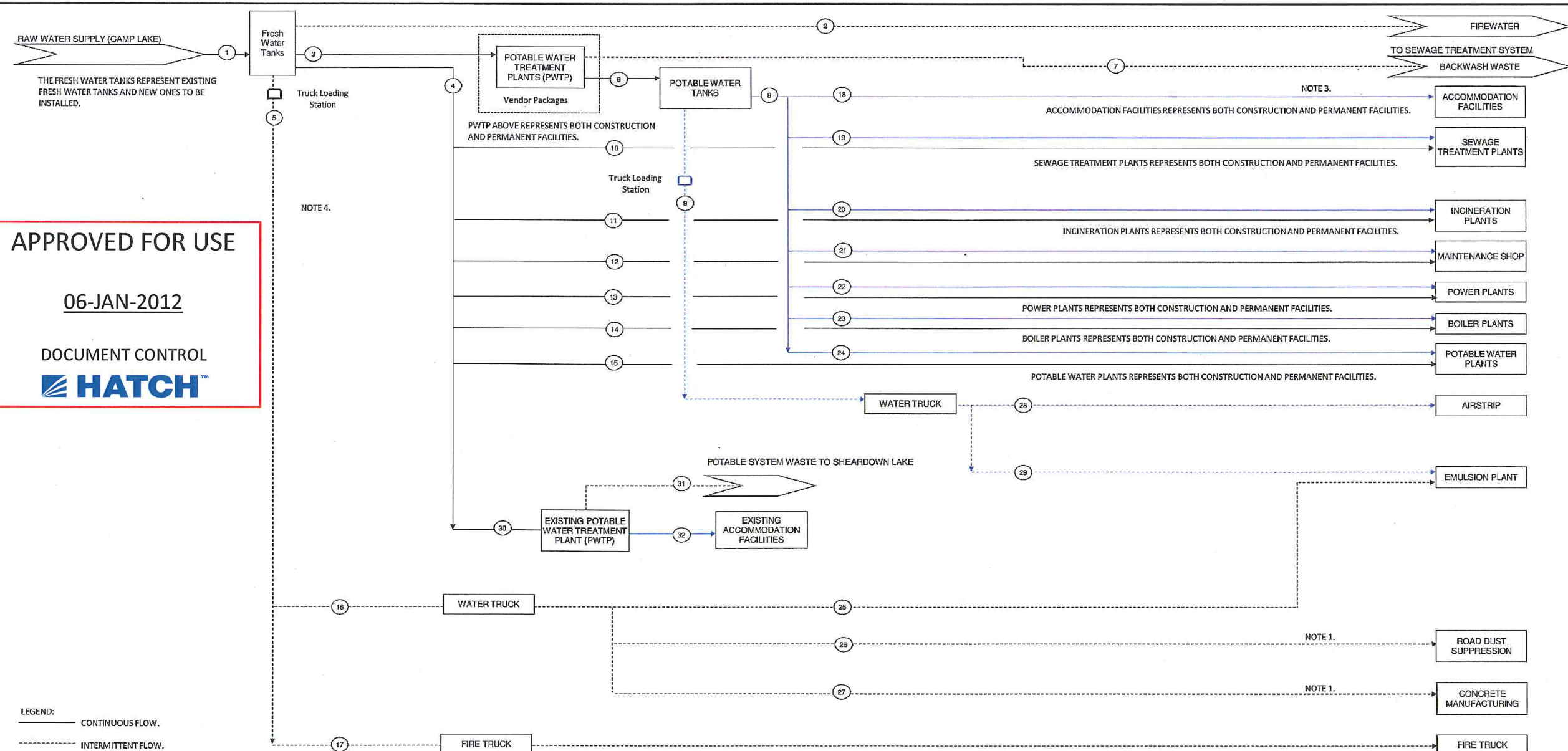


APPROVED FOR USE

06-JAN-2012

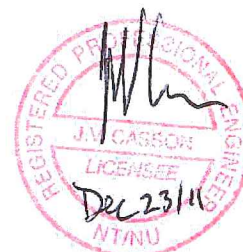
DOCUMENT CONTROL



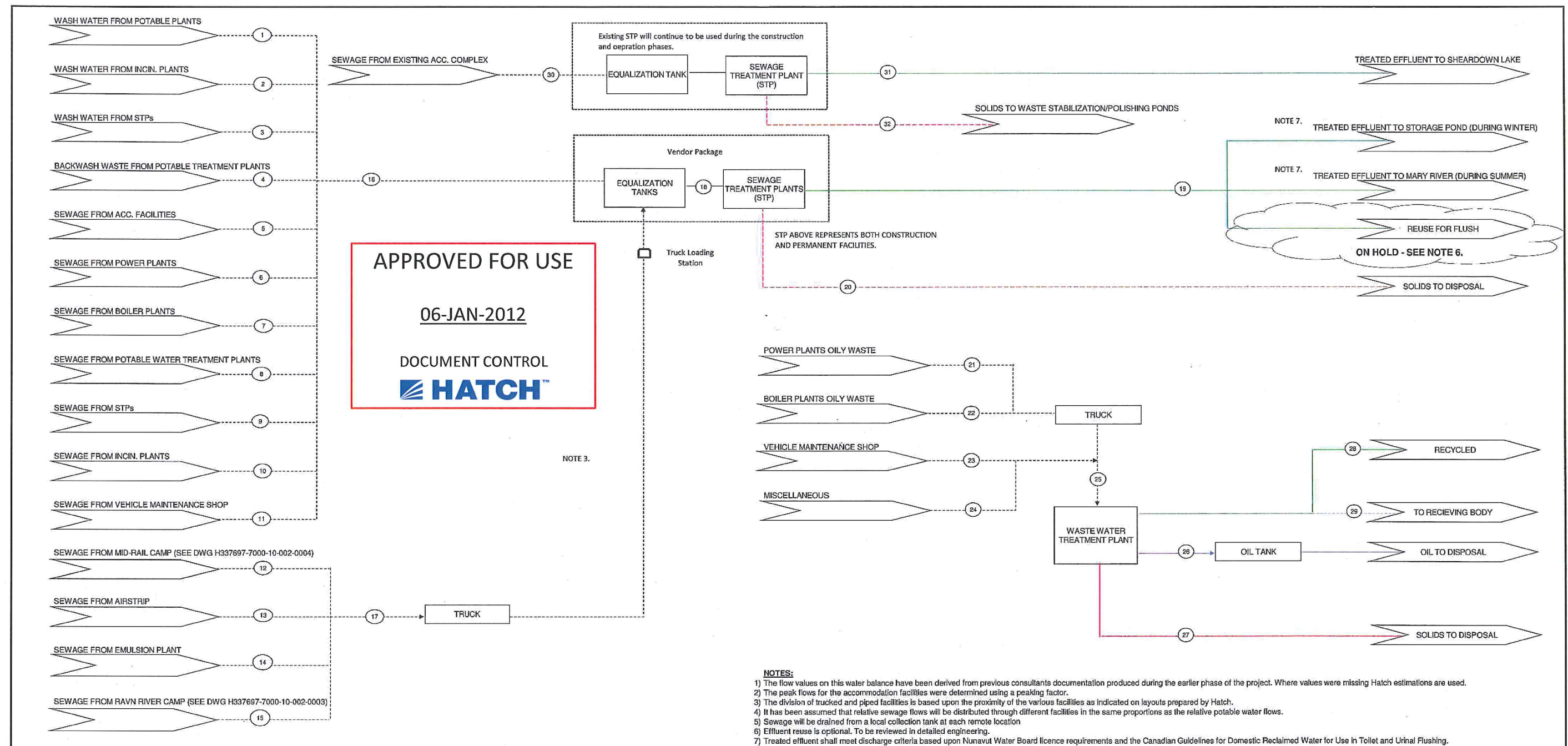
NOTES:

- 1) The flows for these streams will occur in the summer time only.
- 2) The flow values on this water balance have been derived from previous consultants documentation produced during the earlier phase of the project. Where values were missing Hatch estimations are used.
- 3) The peak flows for the accommodation facilities were determined using a peaking factor. The accommodation complex represents both the construction and permanent facilities.
- 4) The division of trucked and piped facilities is based upon the proximity of the various facilities as indicated on layouts prepared by Hatch.

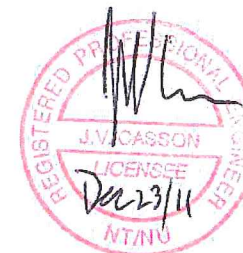
Stream No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stream Description	RAW WATER FEED	FIRE-WATER	FEED TO POTABLE SYSTEM	PIPED FRESH WATER	TRUCKED FRESH WATER	POTABLE SYSTEM PRODUCT FLOW	POTABLE SYSTEM WASTE FLOW	PIPED POTABLE WATER	TRUCKED POTABLE WATER	WASH WATER TO STP	WASH WATER TO INCIN. PLANT	WASH WATER TO MAINT. SHOP	WASH WATER TO POWER PLANT	WASH WATER TO BOILER PLANT	WASH WATER TO PWTP	FRESH WATER TRUCK
Construction Phase - Design (m ³ /h)	27.3	300.0	13.8	31.0	42.9	13.8	0.00	60.7	42.9	3.4	3.4	12.1	3.4	3.4	3.4	42.9
Construction Phase - Nominal (m ³ /h)	27.3	-	13.8	6.6	6.9	13.8	0.00	13.5	0.3	0.1	0.1	4.4	0.1	0.1	0.1	6.8
Operation Phase - Design (m ³ /h)	14.7	300.0	6.9	41.7	42.9	6.9	0.00	24.0	42.9	3.4	3.4	22.8	3.4	3.4	3.4	42.9
Operation Phase - Nominal (m ³ /h)	14.7	-	6.9	7.2	0.6	6.9	0.00	6.7	0.1	0.1	0.1	5.0	0.1	0.1	0.1	0.5
Stream No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stream Description	FIRE WATER TRUCK	POTABLE WATER TO ACC. COMPLEX	POTABLE WATER TO STP	POTABLE WATER TO INCIN. PLANT	POTABLE WATER TO MAINT. SHOP	POTABLE WATER TO POWER PLANT	POTABLE WATER TO BOILER PLANT	POTABLE WATER TO PWTP	FRESH WATER TO EMULSION PLANT	FRESH WATER FOR ROAD DUST SUPPRESS	FRESH WATER FOR CONCRETE MFG.	POTABLE WATER FOR AIRPORT	POTABLE WATER FOR EMULSION PLANT	FEED TO EXISTING PWTP	WASTE FROM EXISTING PWTP	EXISTING PWTP PRODUCT
Construction Phase - Design (m ³ /h)	42.9	59.4	0.1	0.06	0.7	0.1	0.06	0.1	42.9	42.9	42.9	42.9	42.9	1.9	0.0	1.9
Construction Phase - Nominal (m ³ /h)	0.0	12.1	0.12	0.06	0.7	0.1	0.06	0.1	0.13	0.4	6.3	0.1	0.2	1.5	0.0	1.5
Operation Phase - Design (m ³ /h)	42.9	23.3	0.06	0.03	0.4	0.06	0.03	0.06	42.86	42.9	0.0	42.9	0.0	1.9	0.0	1.9
Operation Phase - Nominal (m ³ /h)	0.0	6.1	0.06	0.03	0.4	0.06	0.03	0.06	0.10	0.42	0.00	0.06	0.08	1.5	0.0	1.5



HATCH		Baffinland	
DESIGNED BY R. KAPADIA Date: 12/01/2011	DRAWN BY R. KAPADIA Date: 12/01/2011	MINE SITE - MARY RIVER PROJECT BLOCK FLOW DIAGRAM WATER SUPPLY BALANCE	
CHECKED BY J. BINNS Date: 12/01/2011	DISCIPLINE ENGR. R. KAPADIA Date: 12/01/2011		
PROJ. DES. COORD. J. GASSON Date: 12/21/2011	PROJ. ENGR. J. GASSON Date: 12/21/2011		
PROJECT MANAGER H. CHARALAMBU Date: 12/01/2011		Drawing No. H337697-4210-10-002-0001 SHEET 1 OF 2	Rev. F



Stream No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stream Description	WASH WATER FROM POTABLE PLANT	WASH WATER FROM INCIN. PLANT	WASH WATER FROM STP	PWTP BACKWASH WASTE STREAM	SEWAGE FROM ACC. COMPLEX	SEWAGE FROM POWER PLANT	SEWAGE FROM BOILER PLANT	SEWAGE FROM POTABLE WATER TREATMENT PLANTS	SEWAGE FROM STPs	SEWAGE FROM INCIN. PLANTS	SEWAGE FROM VEHICLE MAINTENANCE SHOP	SEWAGE FROM MID-RAIL CAMP (SEE DWG H337697-7000-10-002-0004)	SEWAGE FROM AIRSTRIP	SEWAGE FROM EMULSION PLANT	SEWAGE FROM RAVN RIVER CAMP (SEE DWG H337697-7000-10-002-0003)	
Construction Phase - Design (m ³ /h)	3.4	3.4	3.4	0.00	68.1	0.1	0.1	0.12	0.1	0.1	0.74	42.9	42.9	42.9	42.9	79.5
Construction Phase - Nominal (m ³ /h)	0.1	0.1	0.1	0.00	12.4	0.1	0.1	0.12	0.1	0.1	0.74	2.9	0.1	0.1	6.3	14.1
Operation Phase - Design (m ³ /h)	3.4	3.4	3.4	0.00	36.6	0.06	0.03	0.06	0.06	0.03	0.37	-	42.9	42.9	0.0	47.4
Operation Phase - Nominal (m ³ /h)	0.1	0.1	0.1	0.00	6.0	0.06	0.03	0.06	0.06	0.03	0.37	-	0.1	0.1	0.0	7.0
Stream No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stream Description	TRUCKED SEWAGE	STP FEED FLOW	STP EFFLUENT - DISCHARGE	STP SOLIDS TO DISPOSAL	POWER PLANT - OILY WASTE	BOILER PLANT - OILY WASTE	MAINT. SHOP - OILY WASTE	MISC. OILY WASTE	TOTAL FEED TO WWTP	OIL TO DISPOSAL	WWTP SOLIDS TO DISPOSAL	RECYCLED WASH WATER	WWTP EFFLUENT TO DISPOSAL	EXISTING ACC. COMPLEX SEWAGE	EXISTING STP EFFLUENT	EXISTING STP SOLIDS
Construction Phase - Design (m ³ /h)	42.9	23.5	23.3	1.0	3.4	3.4	12.1	1.9	20.8	0.0	n/a	20.73	20.7	1.9	1.9	0.0
Construction Phase - Nominal (m ³ /h)	9.4	23.5	23.3	0.2	0.1	0.1	4.4	0.5	5.1	0.0	0.82	4.32	0.0	1.5	1.5	0.0
Operation Phase - Design (m ³ /h)	42.9	7.2	7.1	0.7	3.4	3.4	22.8	3.0	32.6	0.0	n/a	32.53	32.5	1.9	1.9	0.0
Operation Phase - Nominal (m ³ /h)	0.1	7.2	7.1	0.1	0.1	0.14	5.0	0.5	5.8	0.0	0.92	4.87	0.0	1.5	1.5	0.0



HATCH		Baffinland	
DESIGNED BY R. KAPADIA Date: 12/21/2011	DRAWN BY R. KAPADIA Date: 12/21/2011	MINE SITE - MARY RIVER PROJECT BLOCK FLOW DIAGRAM WASTE WATER BALANCE	
CHECKED BY J. BINNS Date: 12/21/2011	DISC. ENGR. R. KAPADIA Date: 12/21/2011		
PROJ. DES. COORD. J. GASSON Date: 12/21/2011	PROJ. ENGR. J. GASSON Date: 12/21/2011		
PROJECT MANAGER H. CHARALAMBU Date: 12/21/2011		Drawing No. H337697-4210-10-002-0001 SHEET 2 OF 2	Rev. F