Table 1 – Summary of Metallurgical Recoveries from the Berlin Project

Summary results from the nine ferric leach tests undertaken on two composite samples from the Berlin Project are detailed below. There are two steps to each test: Step 1 involves leaching the ore with ferric iron and only the residue from Step 1 is acid leached in Step 2. The extraction results reported above were derived from the six tests in which hydrochloric acid was used in Step 2 of the process.

Composite Sample #	Maximum Grain Size (µm)	Ferric Leach (g/L) Step 1	Releach/Wash - Type Step 2	Pulp Density % Step 1/Step 2	Extraction %								
					Uranium	Vanadium	Phosphate	Yttrium	Neodymium	Zinc	Nickel	Molybdenum	Rhenium
1	106	50	10%HCL	10/10	98.4	73.2	99.2	94.8	51.0	99.4	61.7	48.0	33.8
	75	50		5/10	97.2	79.6	93.6	96.1	89.5	64.3	61.1	58.9	49.6
	38	25		5/10	98.8	82.0	99.5	95.7	94.7	98.1	59.7	47.7	29.7
	38	50		10/10	96.6	74.6	99.1	94.6	86.4	99.9	50.1	43.4	58.0
2	106	50		5/10	97.2	80.2	99.5	95.8	82.8	98.5	62.7	56.8	27.1
	106	50		10/10	96.4	78.9	92.5	95.7	84.6	98.6	77.4	61.1	71.2
Average Recovery from Composite Samples 1 & 2 with Hydrochloric Acid					**97.3**	**78.5**	**96.9**	**95.5**	**82.0**	**94.5**	**64.1**	**54.2**	**46.0**
1	106	50	$10\%H_2SO_4$	10/10	93.1	56.0	97.9	79.6	48.9	93.7	58.6	44.8	22.8
2	106	50		5/10	97.3	69.4	99.4	89.8	63.6	97.0	62.7	53.8	11.1
	106	50		10/10	98.0	73.3	99.4	89.0	66.4	97.0	76.4	55.7	64.6
Average Recovery from Composite Samples 1 & 2 with Sulphuric Acid					**96.1**	**66.3**	**98.9**	**86.1**	**59.6**	**95.9**	**65.9**	**51.4**	**32.8**
Average Recovery from All 9 Tests on Composite Samples 1 & 2					**97.1**	**75.2**	**97.6**	**93.1**	**76.2**	**94.2**	**63.6**	**52.7**	**42.2**