

## APPENDIX 2

### Trace element analysis (ppm) of 50 samples from six sample localities

Sample	Sc	Ba	Co	Cs	Hf	Nb	Sr	Th	U	V	Zr	Cu	Pb	Zn	Ni	As	Mo	Co/Zn	Co/Ni
D1	2.0	746.0	48.7	0.1	0.3	0.2	568.0	0.4	7.2	328.0	18.8	76.7	3.5	123.0	161.6	65.1	45.9	0.4	0.3
D2	1.0	5211.0	225.6	0.1	0.1	0.1	119.7	0.2	1.5	85.0	1.3	28.7	0.4	49.0	63.2	80.2	10.7	4.6	3.6
D3	1.0	37137.0	505.4	0.2	0.1	0.1	782.0	0.3	6.4	51.0	4.4	27.3	1.0	53.0	59.7	20.2	3.7	9.5	8.5
D4	1.0	309.0	129.0	0.1	0.1	0.1	77.9	0.2	0.9	23.0	5.8	56.6	0.1	70.0	77.2	53.7	13.1	1.8	1.7
D5	1.0	905.0	170.2	0.1	0.1	0.1	402.1	0.2	2.6	25.0	1.8	31.9	0.2	112.0	111.6	72.8	11.5	1.5	1.5
D6	1.0	729.0	80.3	0.1	0.1	0.1	682.1	0.2	7.7	304.0	3.2	1410.1	5.0	72.0	119.8	115.9	60.0	1.1	0.7
D7	1.0	1464.0	73.9	0.1	0.2	0.2	653.1	0.2	5.7	256.0	11.3	321.7	1.1	109.0	175.1	79.5	119.1	0.7	0.4
D8	1.0	11204.0	171.2	0.2	0.3	0.3	1649.9	0.3	5.0	367.0	12.6	148.2	3.3	110.0	149.7	57.2	106.2	1.6	1.1
D9	4.0	18684.0	890.2	0.1	0.1	0.1	3509.0	0.2	1.5	198.0	2.6	28.8	0.1	53.0	741.5	37.9	20.2	16.8	1.2
D10	6.0	8922.0	1327.8	0.1	0.1	0.1	2382.3	0.2	2.9	160.0	4.6	81.8	0.2	113.0	878.4	17.3	20.9	11.8	1.5
D11	11.0	17868.0	918.8	0.1	0.3	0.1	3380.7	0.2	1.2	252.0	8.1	89.5	0.3	167.0	950.9	33.4	21.0	5.5	1.0
D12	1.0	15388.0	321.9	0.1	0.3	0.1	6598.9	0.2	2.1	85.0	46.9	138.4	1.0	80.0	67.7	27.0	61.1	4.0	4.8
D13	1.0	10827.0	183.5	0.1	0.2	0.1	6481.0	0.3	1.6	58.0	20.6	95.2	1.9	141.0	136.1	36.5	93.2	1.3	1.3
D14	1.0	8089.0	101.8	0.1	0.1	0.1	5610.1	0.2	1.8	36.0	17.6	89.0	1.7	95.0	84.3	38.3	89.1	1.1	1.2
D15	1.0	14497.0	296.3	0.1	0.1	0.1	7353.4	0.2	1.6	52.0	32.5	107.6	0.8	89.0	71.5	29.4	90.4	3.3	4.1
D16	1.0	26654.0	635.0	0.1	0.3	0.1	8842.0	0.2	1.8	67.0	46.9	155.9	1.0	95.0	69.2	45.2	83.6	6.7	9.2
D17	1.0	6268.0	170.2	0.1	0.1	0.1	2502.2	0.2	1.5	27.0	33.9	180.4	1.0	80.0	70.2	19.6	74.7	2.1	2.4
Average	2.1	10876.6	367.6	0.1	0.2	0.1	3035.0	0.2	3.1	139.6	16.1	180.5	1.3	94.8	234.6	48.8	54.4	4.3	2.6
B1	1.0	8555.0	81.5	0.1	0.2	0.1	2447.3	0.3	2.6	167.0	6.4	44.6	5.3	101.0	276.9	22.2	13.8	0.8	0.3
B2	1.0	36638.0	131.5	0.3	0.2	0.1	7946.3	0.2	3.6	212.0	12.2	186.1	0.9	164.0	376.3	62.6	39.0	0.8	0.3
B3	1.0	11134.0	55.6	0.1	0.3	0.1	3392.3	0.7	2.8	206.0	10.6	31.2	7.1	110.0	404.5	20.8	16.2	0.5	0.1
B4	1.0	5708.0	369.9	0.1	0.2	0.1	1566.8	0.7	3.1	84.0	9.9	109.4	9.6	110.0	375.4	5.9	6.2	3.4	1.0
Average	1.0	15508.8	159.6	0.2	0.2	0.1	3838.2	0.5	3.0	167.3	9.8	92.8	5.7	121.3	358.3	27.9	18.8	1.4	0.4
C1	7.0	525.0	56.9	0.5	1.4	3.6	497.7	2.5	1.3	296.0	83.8	542.2	142.3	297.0	286.7	69.4	11.0	0.2	0.2
C2	7.0	445.0	49.9	0.6	1.3	3.4	317.1	3.1	1.2	336.0	83.4	474.9	114.6	278.0	276.4	88.6	12.0	0.2	0.2
C3	9.0	2511.0	181.5	1.3	1.8	5.0	279.6	3.9	0.7	476.0	111.0	794.6	130.9	407.0	557.8	127.3	43.5	0.4	0.3
C4	9.0	91.0	136.0	0.6	2.0	4.9	118.6	3.4	0.8	555.0	118.0	796.1	147.8	331.0	441.1	199.9	24.2	0.4	0.3
Average	8.0	893.0	106.1	0.8	1.6	4.2	303.3	3.2	1.0	415.8	99.1	652.0	133.9	328.3	390.5	121.3	22.7	0.3	0.3
BM1	7.0	5408.0	147.8	0.9	1.3	2.3	766.1	4.3	1.8	346.0	65.1	409.9	30.7	119.0	238.5	16.7	8.3	1.2	0.6
BM2	9.0	16855.0	134.6	2.5	2.0	5.1	1670.1	5.7	2.0	260.0	83.0	374.4	38.3	128.0	255.2	16.2	10.1	1.1	0.5
BM3	4.0	740.0	1432.1	0.1	0.9	1.4	321.2	2.6	2.9	983.0	46.8	233.1	29.2	120.0	342.7	45.1	25.5	11.9	4.2
BM4	7.0	3355.0	417.3	1.0	1.5	3.0	512.0	4.7	2.1	311.0	65.6	372.8	36.6	152.0	320.0	11.6	5.6	2.7	1.3
BM5	3.0	5036.0	975.6	0.3	0.7	0.7	552.8	1.4	8.7	183.0	31.5	744.1	17.6	128.0	174.3	30.7	15.9	7.6	5.6
Average	6.0	6278.8	621.5	1.0	1.3	2.5	764.4	3.7	3.5	416.6	58.4	426.9	30.5	129.4	266.1	24.1	13.1	4.9	2.4
E1	1.0	3339.0	87.6	0.1	0.5	0.2	197.3	1.6	1.7	142.0	20.3	92.7	22.0	52.0	66.2	53.6	198.2	1.7	1.3
E2	1.0	1742.0	147.0	0.1	0.5	0.3	47.0	1.6	2.9	211.0	18.2	96.5	19.0	66.0	67.7	55.0	17.7	2.2	2.2
E3	1.0	1818.0	82.8	0.1	0.2	0.1	39.2	0.6	1.5	114.0	7.7	70.9	9.6	47.0	44.9	36.6	32.0	1.8	1.8

E4	1.0	1572.0	79.7	0.1	0.1	0.1	37.6	0.4	1.2	66.0	4.7	40.6	15.2	53.0	49.9	47.5	13.7	1.5	1.6
E5	1.0	5947.0	31.7	0.1	0.1	0.1	40.3	0.2	1.7	109.0	0.5	31.0	5.7	40.0	55.3	65.1	17.3	0.8	0.6
E6	1.0	1989.0	128.9	0.1	0.1	0.1	60.2	0.3	3.3	110.0	9.0	28.5	7.8	49.0	47.1	49.3	14.3	2.6	2.7
E7	1.0	1209.0	78.6	0.1	0.2	0.1	34.4	0.3	1.9	70.0	8.9	58.3	6.0	49.0	65.0	54.0	11.0	1.6	1.2
E8	2.0	3194.0	67.9	0.1	0.1	0.1	245.6	0.2	1.7	83.0	6.6	247.1	2.2	151.0	153.0	25.3	14.4	0.4	0.4
E9	1.0	3179.0	42.3	0.1	0.1	0.1	273.1	0.2	3.0	137.0	7.9	146.3	4.1	129.0	153.8	35.3	24.7	0.3	0.3
E10	1.0	1819.0	140.6	0.1	0.1	0.2	67.6	0.3	2.5	99.0	3.0	28.1	7.9	44.0	50.7	43.7	16.7	3.2	2.8
E11	1.0	2086.0	141.4	0.1	0.2	0.1	33.4	0.4	1.6	138.0	6.9	51.9	10.4	35.0	39.3	40.2	22.5	4.0	3.6
E12	1.0	2227.0	258.9	0.1	0.3	0.2	144.7	1.1	2.4	170.0	16.7	34.7	10.3	35.0	50.2	52.9	120.5	7.4	5.2
E13	1.0	3614.0	110.0	0.1	0.1	0.1	127.8	0.5	1.8	179.0	7.2	50.4	10.5	37.0	46.5	41.7	55.5	3.0	2.4
E14	1.0	2393.0	134.8	0.1	0.1	0.1	42.7	0.8	1.7	120.0	7.9	44.1	15.1	35.0	38.0	40.7	19.2	3.9	3.5
E15	1.0	2693.0	27.2	0.1	0.3	0.1	335.0	0.4	2.0	226.0	8.0	332.6	2.2	179.0	157.7	10.3	6.3	0.2	0.2
Average	1.1	2588.1	104.0	0.1	0.2	0.1	115.1	0.6	2.1	131.6	8.9	90.2	9.9	66.7	72.4	43.4	38.9	2.3	2.0
T1	4.0	8781.0	91.9	0.1	0.7	4.6	2822.0	0.4	9.3	449.0	44.1	205.0	1.4	332.0	436.0	53.4	20.5	0.3	0.2
T2	1.0	2295.0	403.8	0.1	0.1	0.2	1359.6	0.2	25.0	213.0	2.5	784.1	32.2	80.0	102.5	15.6	40.9	5.0	3.9
T3	1.0	2634.0	355.4	0.1	0.1	0.1	1154.2	0.2	21.1	159.0	4.0	1606.5	11.8	61.0	141.6	18.7	39.3	5.8	2.5
T4	1.0	2719.0	308.9	0.1	0.1	0.1	1377.3	0.2	21.8	122.0	1.8	767.8	12.7	75.0	70.3	15.8	38.8	4.1	4.4
T5	1.0	3233.0	265.6	0.1	0.1	0.9	2023.9	0.2	14.5	325.0	1.6	812.7	6.7	75.0	89.0	12.4	61.5	3.5	3.0
Average	1.0	2720.3	333.4	0.1	0.1	0.3	1478.8	0.2	20.6	204.8	2.5	992.8	15.9	72.8	100.9	15.6	45.1	4.6	3.5
TotalMax	11.0	37137.0	1432.1	2.5	2.0	5.1	8842.0	5.7	25.0	983.0	118.0	1606.5	147.8	407.0	950.9	199.9	198.2	16.8	9.2
TotalMin	1.0	91.0	27.2	0.1	0.1	0.1	33.4	0.2	0.7	23.0	0.5	27.3	0.1	35.0	38.0	5.9	3.7	0.2	0.1
TotalAve.	2.5	6807.7	268.1	0.2	0.4	0.8	1648.9	1.0	4.2	200.6	23.8	274.2	18.9	113.6	204.8	46.3	38.8	3.2	2.1

D – Derbent deposit; B – Baltasarılar deposit; C – Cihanpaşa deposit; BM – Büyükmahal deposit; E – Eymir deposit; T – Tarhana deposit