Field Duplicate Sample Pair Analytical Results - Raw Data and Results Stripped of Data Qualifiers with Non-Detect Values Set Equal to the Detection Limit

LocationName	SampleName	SampleTypeID	Sample Depth (feet)	SampleDate	Aluminum (MG/KG)	Antimony (MG/KG)		Arsenic (MG/KG)	Barium (MG/KG)	Beryllium (MG/KG)		Boron (MG/KG)		Cadmium (MG/KG)		Calcium (MG/KG)	Chromium (MG/KG)	Cobalt (MG/KG)		Copper (MG/KG)	Iron (MG/KG)	Lead (MG/KG)	Magnesium (MG/KG)	Manganese (MG/KG)	Mercury (MG/KG)	Molybdenum (MG/KG)		Nickel (MG/KG)	Potassium (MG/KG)	Selenium (MG/KG)		Silver (MG/KG)		Sodium (MG/KG)	Thallium (MG/KG)		Thorium (MG/KG)	Uranium (MG/KG)	Vanadium (MG/KG)	Zinc (MG/KG)	
					Raw data	Raw data	Qual. stripped ND = DL	Raw data	Raw data	Raw data	Qual. stripped ND = DL	Raw data	Qual. stripped ND = DL	Raw data	Qual. stripped ND = DL	Raw data	Raw data	Raw data	Qual. Stripped	Raw data	Raw data	Raw data	Raw data	Raw data	Raw data	Raw data	Qual. Stripped	Raw data	Raw data	Raw data	Qual. Stripped	Raw data	Qual. stripped ND = DL	Raw data	Raw data	Qual. stripped ND = DL	Raw data	Raw data	Raw data	Raw data	Qual. stripped ND = DL
VLT-XRF-3	VLT-XRF-3A	N	0.5 - 1	5/11/2010	7200	1.7 J	1.7	6.3	47	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3700	22	3	3	830	10000	2.8	6100	41	0.13	2.9 J	2.9	6.7	900	3.5 J	3.5	0.25 U	0.25	130	0.49 U	0.49	6.36	1.33	18	12 U	12
VLT-XRF-3	VLT-XRF-DUP1	FD	0.5 - 1	5/11/2010	7300	1.4 J	1.4	6	55	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3900	23	3.1	3	830	10000	2.8	6000	41	0.1	3.3 J	3.3	6.8	990	4.3 J	4.3	0.25 U	0.25	140	0.5 U	0.5	9.16	1.37	17	13 U	13
VLT-XRF-5	VLT-XRF-5B	N	2.5 - 3	5/11/2010	8400	0.74 U	0.74	6.3	61	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3400	21	3.7	4	1000	15000	3	7500	58	0.18	3.4 J	3.4	8.5	2000	3.8 J	3.8	0.25 U	0.25	130	0.49 U	0.49	220	232	29	67	67
VLT-XRF-5	VLT-XRF-DUP2	FD	2.5 - 3	5/11/2010	8200	1.4 J	1.4	6.9	75	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3700	19	3.7	4	1100	16000	3.2	7300	55	0.23	4.5 J	4.5	8.9	2200	4.6 J	4.6	0.25 U	0.25	120	0.49 U	0.49	7.8	1.36	32	12 U	12
VLT-XRF-8	VLT-XRF-8A	N	0.5 - 1	5/12/2010	7100	0.74 U	0.74	5.6	57	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3300	25	3.3	3	710	11000	3.3	5900	45	0.14	3.6 J	3.6	8.4	1100	2.6 J	2.6	0.25 U	0.25	140	0.49 U	0.49	6.04	1.68	22	12 U	12
VLT-XRF-8	VLT-XRF-DUP3	FD	0.5 - 1	5/12/2010	6500	1.5 J	1.5	6.7	53	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3200	19	3.2	3	740	12000	3.6	5400	40	0.16	3.9 J	3.9	7.9	1100	3.6 J	3.6	0.28 J	0.28	89	0.5 U	0.5	10	2.45	21	18 J	18
VLT-XRF-10	VLT-XRF-10B	N	1.7 - 2.2	5/12/2010	6500	2.1 J	2.1	7.6	48	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	2300	20	4.2	4	1100	14000	2.7	5400	46	0.095	4.1 J	4.1	7.8	1300	3.1 J	3.1	0.25 U	0.25	130	0.5 U	0.5	8.39	3.17	19	28 J	28
VLT-XRF-10	VLT-XRF-DUP4	FD	2.5 - 3	5/12/2010	6500	2.4 J	2.4	8.9	49	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	2600	19	4	4	1400	18000	3.1	4900	44	0.16	4.3 J	4.3	7.7	1300	3.9 J	3.9	0.25 U	0.25	110	0.5 U	0.5	10.9	2.87	22	22 J	22
VLT-XRF-13	VLT-XRF-13A	N	0.5 - 1	5/12/2010	7400	1.3 J	1.3	5.3	68	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3200	25	4.5	5	1000	14000	4.1	6300	52	0.19	3.7 J	3.7	9.6	1500	2.8 J	2.8	0.25 U	0.25	140	0.5 U	0.5	5.61	1.26	25	13 J	13
VLT-XRF-13	VLT-XRF-DUP5	FD	0.5 - 1	5/12/2010	7000	1.3 J	1.3	5.5	60	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3100	22	4	4	910	12000	4.3	6000	47	0.19	3.5 J	3.5	9	1500	2.8 J	2.8	0.25 U	0.25	110	0.5 U	0.5	6.79	1.23	25	23 J	23
VLT-XRF-15	VLT-XRF-15B	N	2.5 - 3	5/12/2010	5900	0.74 U	0.74	5.8	52	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3400	21	3	3	770	11000	3	4900	35	0.18	2.6 J	2.6	15	880	4.1 J	4.1	0.25 U	0.25	110	0.5 U	0.5	5.47	0.99	17	12 U	12
VLT-XRF-15	VLT-XRF-DUP6	FD	2.5 - 3	5/12/2010	5400	0.76 U	0.76	6.5	47	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3400	20	2.5 J	2.5	640	9600	2.8	4000	29	0.23	2.3 J	2.3	11	900	3.7 J	3.7	0.25 U	0.25	99	0.51 U	0.51	7.12	1.06	17	18 J	18
VLT-XRF-18	VLT-XRF-18A	N	0.5 - 1	5/13/2010	12000	1.1 J	1.1	4.8	85	0.33 J	0.33	2.1 U	2.1	0.25 U	0.25	4200	28	4.4	4	1700	17000	3.2	6900	51	0.14	3.2 J	3.2	9.9	2200	4.9 J	4.9	0.27 J	0.27	200	0.5 U	0.5	7.22	1.61	34	13 U	13
VLT-XRF-18	VLT-XRF-DUP7	FD	0.5 - 1	5/13/2010	3400	1 J	1	5.1	57	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	1600	24	3.8	4	1800	8200	3.2	2800	47	0.15	2.8 J	2.8	9.2	540	7.1	7	0.25 U	0.25	66	0.51 U	0.51	9.59	1.85	23	30 J	30
VLT-XRF-20	VLT-XRF-20B	N	2.5 - 3	5/13/2010	6500	2 J	2	7.4	44	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	2900	17	2.7	3	860	9800	2.6	5700	41	0.18	1.8 J	1.8	6.5	870	3.4 J	3.4	0.25 U	0.25	100	0.5 U	0.5	6.68	0.875	18	13 U	13
VLT-XRF-20	VLT-XRF-DUP8	FD	2.5 - 3	5/13/2010	6600	1.7 J	1.7	7.4	49	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3300	20	2.7	3	1000	9400	3	5300	41	0.21	2.2 J	2.2	6.6	900	3.5 J	3.5	0.25 U	0.25	120	0.5 U	0.5	6.28	0.867	18	18 J	18
VLT-XRF-22	VLT-XRF-22A	N	0.5 - 1	5/13/2010	6300	5.4	5.4	8.5	59	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3000	18	4.3	4	910	9900	2.8	5100	36	0.93	2.4 J	2.4	8.2	540	2.2 J	2.2	0.25 U	0.25	99	0.49 U	0.49	6.64	1.22	16	15 J	15
VLT-XRF-22	VLT-XRF-DUP9	FD	0.5 - 1	5/13/2010	5900	6.1	6.1	8.8	60	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	2800	15	3.7	4	940	9500	3.1	4900	35	1.1	2.2 J	2.2	7.7	600	2.2 J	2.2	0.25 U	0.25	85	0.5 U	0.5	6.69	1.24	16	14 J	14
VLT-XRF-24	VLT-XRF-24B	N	2.5 - 3	5/13/2010	5600	7.5	7.5	12	55	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	2700	17	6.7	7	940	14000	2.8	4400	32	0.45	3.7 J	3.7	7.6	800	3.6 J	3.6	0.25 U	0.25	120	0.5 U	0.5	8.59	1.41	18	12 U	12
VLT-XRF-24	VLT-XRF-DUP10	FD	2.5 - 3	5/13/2010	6500	9.3	9.3	13	52	0.25 U	0.25	2.1 U	2.1	0.25 U	0.25	3300	17	8.4	8	1200	12000	3.2	5200	34	0.52	4 J	4	9.5	810	3 J	3	0.25 U	0.25	130	0.5 U	0.5	10.5	1.47	21	18 J	18

Relatative Percent Difference (RPD) Calculations for Field Duplicate Sample Pair Analytical Results

LocationName	SampleName	SampleTypeID	Sample Depth (feet)	SampleDate	Aluminum (MG/KG)	Antimony (MG/KG)	Arsenic (MG/KG)	Barium (MG/KG)	Beryllium (MG/KG)	Boron (MG/KG)	Cadmium (MG/KG)	Calcium (MG/KG)	Chromium (MG/KG)	Cobalt (MG/KG)	Copper (MG/KG)	Iron (MG/KG)	Lead (MG/KG)	Magnesium (MG/KG)	Manganese (MG/KG)	Mercury (MG/KG)	Molybdenum (MG/KG)	Nickel (MG/KG)	Potassium (MG/KG)	Selenium (MG/KG)	Silver (MG/KG)	Sodium (MG/KG)	Thallium (MG/KG)	Thorium (MG/KG)	Uranium (MG/KG)	Vanadium (MG/KG)	Zinc (MG/KG)
VLT-XRF-3	VLT-XRF-3A	N	0.5 - 1	5/11/2010	1.4%	19.4%	4.9%	15.7%	0.0%	0.0%	0.0%	5.3%	4.4%	3.3%	0.0%	0.0%	0.0%	1.7%	0.0%	26.1%	12.9%	1.5%	9.5%	20.5%	0.0%	7.4%	2.0%	36.1%	3.0%	5.7%	8.0%
VLT-XRF-3	VLT-XRF-DUP1	FD	0.5 - 1	5/11/2010																											
VLT-XRF-5	VLT-XRF-5B	N	2.5 - 3	5/11/2010	2.4%	61.7%	9.1%	20.6%	0.0%	0.0%	0.0%	8.5%	10.0%	0.0%	9.5%	6.5%	6.5%	2.7%	5.3%	24.4%	27.8%	4.6%	9.5%	19.0%	0.0%	8.0%	0.0%	186%	198%	9.8%	139%
VLT-XRF-5	VLT-XRF-DUP2	FD	2.5 - 3	5/11/2010																											
VLT-XRF-8	VLT-XRF-8A	N	0.5 - 1	5/12/2010	8.8%	67.9%	17.9%	7.3%	0.0%	0.0%	0.0%	3.1%	27.3%	3.1%	4.1%	8.7%	8.7%	8.8%	11.8%	13.3%	8.0%	6.1%	0.0%	32.3%	11.3%	44.5%	2.0%	49.4%	37.3%	4.7%	40.0%
VLT-XRF-8	VLT-XRF-DUP3	FD	0.5 - 1	5/12/2010																											
VLT-XRF-10	VLT-XRF-10B	N	1.7 - 2.2	5/12/2010	0.0%	13.3%	15.8%	2.1%	0.0%	0.0%	0.0%	12.2%	5.1%	4.9%	24.0%	25.0%	13.8%	9.7%	4.4%	51.0%	4.8%	1.3%	0.0%	22.9%	0.0%	16.7%	0.0%	26.0%	9.9%	14.6%	24.0%
VLT-XRF-10	VLT-XRF-DUP4	FD	2.5 - 3	5/12/2010																											
VLT-XRF-13	VLT-XRF-13A	N	0.5 - 1	5/12/2010	5.6%	0.0%	3.7%	12.5%	0.0%	0.0%	0.0%	3.2%	12.8%	11.8%	9.4%	15.4%	4.8%	4.9%	10.1%	0.0%	5.6%	6.5%	0.0%	0.0%	0.0%	24.0%	0.0%	19.0%	2.4%	0.0%	55.6%
VLT-XRF-13	VLT-XRF-DUP5	FD	0.5 - 1	5/12/2010																											
VLT-XRF-15	VLT-XRF-15B	N	2.5 - 3	5/12/2010	8.8%	2.7%	11.4%	10.1%	0.0%	0.0%	0.0%	0.0%	4.9%	18.2%	18.4%	13.6%	6.9%	20.2%	18.8%	24.4%	12.2%	30.8%	2.2%	10.3%	0.0%	10.5%	2.0%	26.2%	6.8%	0.0%	40.0%
VLT-XRF-15	VLT-XRF-DUP6	FD	2.5 - 3	5/12/2010																											
VLT-XRF-18	VLT-XRF-18A	N	0.5 - 1	5/13/2010	112%	9.5%	6.1%	39.4%	27.6%	0.0%	0.0%	90%	15%	14.6%	5.7%	69.8%	0.0%	84.5%	8.2%	6.9%	13.3%	7.3%	121%	36.7%	7.7%	101%	2.0%	28%	14%	38.6%	79.1%
VLT-XRF-18	VLT-XRF-DUP7	FD	0.5 - 1	5/13/2010																											
VLT-XRF-20	VLT-XRF-20B	N	2.5 - 3	5/13/2010	1.5%	16.2%	0.0%	10.8%	0.0%	0.0%	0.0%	12.9%	16.2%	0.0%	15.1%	4.2%	14.3%	7.3%	0.0%	15.4%	20.0%	1.5%	3.4%	2.9%	0.0%	18.2%	0.0%	6.2%	0.9%	0.0%	32.3%
VLT-XRF-20	VLT-XRF-DUP8	FD	2.5 - 3	5/13/2010																											
VLT-XRF-22	VLT-XRF-22A	N	0.5 - 1	5/13/2010	6.6%	12.2%	3.5%	1.7%	0.0%	0.0%	0.0%	6.9%	18.2%	15.0%	3.2%	4.1%	10.2%	4.0%	2.8%	16.7%	8.7%	6.3%	10.5%	0.0%	0.0%	15.2%	2.0%	0.8%	1.6%	0.0%	6.9%
VLT-XRF-22	VLT-XRF-DUP9	FD	0.5 - 1	5/13/2010																											
VLT-XRF-24	VLT-XRF-24B	N	2.5 - 3	5/13/2010	14.9%	21.4%	8.0%	5.6%	0.0%	0.0%	0.0%	20.0%	0.0%	22.5%	24.3%	15.4%	13.3%	16.7%	6.1%	14.4%	7.8%	22.2%	1.2%	18.2%	0.0%	8.0%	0.0%	20.0%	4.2%	15.4%	40.0%
VLT-XRF-24	VLT-XRF-DUP10	FD	2.5 - 3	5/13/2010																											