



**BUREAU  
VERITAS**

Bureau Veritas Minerals Pty Ltd  
**MINERAL TESTING & LABORATORY SERVICES**

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Reference: **aa041564.b**  
Date Finished: 18/07/2019  
Order: E0839  
Project: EU4-DDH  
Date Received: 05/07/2019  
Type of Sample: Pulps  
Samples Analysed: **132**

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**FINAL ANALYSIS REPORT**  
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**Analysis of Mineral Samples**

for

**Prodigy Gold Euro JV**

Prodigy Euro JV Account  
Level 1

141 Broadway Nedlands WA 6009

**Attention:** Lab Results

**Authorised By:**

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Senior Chemist

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Chemist

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Laboratory Manager



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Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
BLANK 1	<0.2	<100	<1	<2	<0.5	<0.1	<100	<0.5
PG012953	<0.2	8.57%	7	418	1.0	<0.1	7400	<0.5
PG012955	<0.2	8.12%	<1	308	1.0	<0.1	9600	<0.5
PG012957	<0.2	7.91%	<1	276	1.0	<0.1	1.30%	<0.5
PG012959	<0.2	7.51%	<1	208	1.0	<0.1	2.26%	<0.5
PG012961	<0.2	8.22%	<1	290	1.0	<0.1	1.23%	<0.5
PG012963	<0.2	8.11%	<1	276	1.5	<0.1	7200	<0.5
PG012965	<0.2	8.48%	<1	274	1.0	<0.1	8000	<0.5
PG012967	<0.2	9.45%	<1	426	1.5	<0.1	7700	<0.5
PG012969	<0.2	8.43%	<1	246	1.0	<0.1	6200	<0.5
PG012971	<0.2	7.83%	<1	256	1.5	<0.1	4.91%	<0.5
PG012973	<0.2	8.74%	<1	402	2.0	0.2	7700	<0.5
Std Nominal	0.4	6.16%	749	142			2.79%	
Determined	0.4	6.32%	738	144	2.0	0.7	2.87%	1.0
PG012975	<0.2	7.65%	2	226	1.5	<0.1	1.48%	<0.5
PG012977	<0.2	9.08%	<1	370	1.5	<0.1	5900	<0.5
PG012979	<0.2	9.35%	<1	470	2.0	<0.1	7100	<0.5
PG012979 Rpt	<0.2	9.39%	<1	470	2.0	<0.1	7200	<0.5
PG012981	<0.2	4.96%	<1	126	1.0	<0.1	2.53%	<0.5
PG012983	<0.2	7.98%	<1	236	1.5	<0.1	2.43%	<0.5
PG012985	<0.2	6.79%	<1	196	1.0	<0.1	2.37%	<0.5
PG012987	<0.2	8.16%	<1	276	1.0	<0.1	1.00%	<0.5
PG012989	<0.2	8.25%	<1	280	1.5	<0.1	1.27%	<0.5
PG012991	<0.2	7.95%	<1	286	2.0	<0.1	8900	<0.5
PG012993	<0.2	8.15%	<1	260	1.5	<0.1	1.00%	<0.5
PG012995	<0.2	8.59%	<1	248	1.5	<0.1	7700	<0.5
PG012997	<0.2	8.29%	<1	428	1.5	<0.1	1.82%	<0.5
PG012999	<0.2	7.56%	<1	626	1.5	<0.1	1.78%	<0.5
PG013001	<0.2	8.20%	<1	544	2.0	<0.1	1.33%	<0.5
PG013003	<0.2	9.08%	<1	662	2.0	<0.1	6800	<0.5
PG013005	<0.2	8.79%	<1	618	2.0	<0.1	7100	<0.5
PG013007	<0.2	7.70%	<1	430	1.5	<0.1	2.33%	<0.5
PG013009	<0.2	8.91%	<1	482	2.0	<0.1	1.45%	<0.5
PG013011	<0.2	8.73%	<1	748	2.0	<0.1	7400	<0.5
PG013013	<0.2	8.17%	<1	724	2.0	<0.1	1.01%	<0.5
PG013015	<0.2	8.98%	<1	376	1.5	<0.1	4100	<0.5
PG013017	<0.2	9.01%	<1	410	1.5	<0.1	9900	<0.5
PG013017 Rpt	<0.2	9.36%	<1	422	1.5	<0.1	1.04%	<0.5
PG013019	<0.2	8.98%	<1	446	1.0	<0.1	2.03%	<0.5
Std Nominal	6.0	6.83%	96	132		3.5	2.48%	8.0
Determined	6.0	6.65%	94	130	1.0	3.5	2.41%	8.0



Reference: aa041564.b Order Number: E0839 Page 2 of 33

Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
PG013021	<0.2	8.82%	<1	466	1.5	<0.1	2800	<0.5
PG013023	<0.2	8.62%	<1	536	1.0	<0.1	5600	<0.5
PG013025	<0.2	7.96%	<1	314	1.5	<0.1	1.94%	<0.5
PG013027	<0.2	8.40%	<1	362	1.5	0.2	4300	<0.5
PG013029	<0.2	8.54%	<1	352	1.5	0.2	7500	<0.5
PG013031	<0.2	8.52%	<1	346	1.5	<0.1	4900	<0.5
PG013033	<0.2	9.01%	<1	460	1.5	<0.1	4000	<0.5
PG013035	<0.2	8.96%	<1	406	1.5	<0.1	5200	<0.5
PG013037	<0.2	7.84%	<1	312	1.0	0.2	7600	<0.5
PG013039	<0.2	9.68%	4	388	1.5	0.4	2200	<0.5
PG013041	<0.2	9.48%	3	412	2.0	0.3	1900	<0.5
BLANK 2	<0.2	<100	<1	4	<0.5	<0.1	<100	<0.5
PG013043	<0.2	9.79%	<1	348	1.5	0.4	2700	<0.5
PG013045	<0.2	10.4%	2	408	2.0	0.2	1500	<0.5
PG013047	<0.2	9.51%	4	298	1.5	0.2	1600	<0.5
PG013049	0.8	9.70%	10	358	2.0	0.2	1600	3.0
PG013051	0.4	11.1%	6	482	2.5	0.2	6400	<0.5
PG013053	<0.2	9.88%	2	364	2.5	0.2	1300	<0.5
PG013055	<0.2	9.79%	8	454	2.0	0.4	6600	<0.5
PG013057	<0.2	9.46%	9	388	2.0	0.8	4700	<0.5
PG013059	<0.2	7.87%	4	368	2.5	0.8	1.61%	<0.5
PG013061	<0.2	9.42%	2	316	2.0	0.4	1200	<0.5
PG013063	<0.2	9.47%	3	316	1.5	0.3	3800	<0.5
Std Nominal		4.63%	3	984	1.5	<0.1	600	<0.5
Determined	<0.2	4.76%	2	1000	1.5	<0.1	600	<0.5
PG013065	0.4	9.88%	5	324	2.0	0.3	2600	<0.5
PG013067	<0.2	9.16%	<1	326	1.5	<0.1	2400	<0.5
PG013069	<0.2	9.11%	2	266	1.5	0.2	4200	<0.5
Std Nominal	1.8	7.90%	21	922	3.0	4.3	3.00%	1.0
Determined	2.2	7.67%	21	906	3.0	4.4	3.00%	<0.5
PG013071	<0.2	9.18%	2	288	1.5	0.3	1.47%	<0.5
PG013073	<0.2	9.12%	<1	332	1.5	0.5	3300	<0.5
PG013075	<0.2	8.40%	<1	290	1.5	0.2	6600	<0.5
PG013075 Rpt	<0.2	8.45%	<1	288	1.5	0.2	6700	<0.5
PG013077	<0.2	8.79%	<1	412	2.0	0.4	2100	<0.5
PG013079	<0.2	9.11%	<1	380	1.5	0.3	2900	<0.5
PG013081	<0.2	9.70%	<1	342	1.5	0.4	1400	<0.5
PG013083	<0.2	9.11%	<1	432	1.5	0.3	9400	<0.5
PG013083 Rpt	<0.2	9.42%	<1	444	2.0	0.3	9900	<0.5
PG013085	<0.2	7.52%	<1	416	1.5	<0.1	6.22%	<0.5
PG013087	<0.2	8.28%	<1	470	1.0	<0.1	4.93%	<0.5



Reference: aa041564.b Order Number: E0839 Page 3 of 33

Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
PG013089	<0.2	9.09%	<1	898	1.5	<0.1	8000	<0.5
PG013091	<0.2	8.09%	<1	822	1.5	0.2	3.11%	<0.5
PG013093	<0.2	8.52%	<1	652	1.5	0.5	6000	<0.5
PG013095	<0.2	7.72%	<1	656	1.5	0.3	2.78%	<0.5
PG013097	<0.2	8.32%	<1	518	1.5	0.5	1.15%	<0.5
PG013099	<0.2	7.60%	<1	170	1.5	0.8	1.66%	<0.5
PG013101	<0.2	7.46%	<1	328	1.5	0.3	1.50%	<0.5
PG013103	<0.2	9.07%	<1	688	1.0	<0.1	4500	<0.5
PG013105	<0.2	7.47%	<1	554	1.5	0.5	7.96%	<0.5
PG013107	<0.2	8.78%	<1	492	1.5	<0.1	1.12%	<0.5
PG013109	<0.2	7.49%	<1	528	1.0	0.2	1.14%	<0.5
PG013111	<0.2	7.96%	<1	386	1.5	<0.1	1.72%	<0.5
PG013113	<0.2	6.40%	<1	334	1.0	<0.1	3.60%	<0.5
PG013115	<0.2	7.47%	<1	394	1.5	<0.1	1.89%	<0.5
PG013117	<0.2	7.45%	<1	412	1.5	<0.1	1.73%	<0.5
PG013119	<0.2	7.48%	<1	466	1.5	<0.1	2.53%	<0.5
PG013121	<0.2	7.67%	<1	510	2.0	<0.1	2.51%	<0.5
PG013123	<0.2	7.50%	<1	414	2.0	0.2	2.50%	<0.5
PG013125	<0.2	7.52%	<1	410	1.0	<0.1	2.48%	<0.5
PG013127	<0.2	8.81%	4	366	1.5	0.2	9900	<0.5
PG013129	<0.2	9.13%	6	340	1.5	0.4	3600	<0.5
PG013131	<0.2	10.1%	5	368	2.0	0.3	5000	<0.5
BLANK 3	<0.2	<100	<1	<2	<0.5	<0.1	<100	<0.5
PG013133	<0.2	10.0%	8	414	2.5	0.4	5600	<0.5
PG013135	<0.2	8.78%	4	342	2.0	0.3	2600	<0.5
PG013137	<0.2	9.13%	5	332	2.0	0.7	5300	<0.5
PG013139	<0.2	8.73%	4	260	2.0	0.5	7200	<0.5
PG013141	<0.2	8.86%	3	372	2.0	0.3	2700	<0.5
PG013143	<0.2	8.84%	5	378	2.0	0.3	2600	<0.5
PG013145	<0.2	9.94%	11	428	1.5	0.6	4800	<0.5
PG013147	<0.2	9.10%	14	362	2.5	<0.1	5700	<0.5
Std Nominal	0.8	7.68%	18	1010	3.0	1.5	2.71%	<0.5
Determined	0.8	7.55%	18	1030	2.5	1.5	2.77%	<0.5
PG013149	<0.2	8.43%	19	286	1.0	0.3	2700	3.0
PG013151	<0.2	8.86%	21	274	1.5	0.2	2200	<0.5
PG013153	<0.2	9.38%	20	398	2.0	0.3	3700	<0.5
PG013155	0.6	10.2%	32	420	2.0	1.0	2900	1.5
PG013157	<0.2	7.18%	9	268	1.5	0.2	8.90%	<0.5
PG013159	<0.2	8.06%	<1	476	1.5	0.2	1.66%	<0.5
PG013161	<0.2	9.05%	<1	614	1.5	<0.1	5600	<0.5
PG013163	<0.2	9.34%	<1	694	1.5	0.2	2400	<0.5



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Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
PG013165	<0.2	9.38%	<1	468	1.5	<0.1	3000	<0.5
PG013167	<0.2	7.30%	2	208	1.0	<0.1	1.01%	<0.5
PG013169	<0.2	7.38%	2	178	1.0	0.6	9400	<0.5
PG013169 Rpt	<0.2	7.33%	3	182	1.0	0.6	9200	<0.5
PG013171	<0.2	8.52%	<1	360	1.5	0.6	7600	<0.5
PG013173	<0.2	7.14%	11	152	1.0	0.2	7000	<0.5
PG013175	<0.2	7.10%	<1	384	1.0	0.9	7700	<0.5
PG013177	<0.2	7.44%	<1	452	1.0	<0.1	2.54%	<0.5
PG013179	<0.2	10.3%	<1	676	1.5	0.2	8800	<0.5
PG013181	<0.2	8.14%	<1	320	1.0	<0.1	4.93%	<0.5
PG013183	<0.2	9.75%	<1	658	1.5	0.2	9700	<0.5
PG013185	<0.2	8.89%	<1	658	1.5	<0.1	8700	<0.5
PG013187	<0.2	6.54%	<1	150	1.0	<0.1	1.52%	<0.5
PG013189	<0.2	6.30%	<1	224	0.5	<0.1	8.84%	<0.5
PG013191	<0.2	8.34%	<1	536	1.0	<0.1	7400	<0.5
PG013193	<0.2	7.35%	<1	282	1.0	<0.1	1.59%	<0.5
PG013195	<0.2	7.51%	<1	1470	1.0	<0.1	2.15%	<0.5
PG013195 Rpt	<0.2	7.48%	<1	1460	1.0	<0.1	2.18%	<0.5
PG013197	<0.2	8.94%	<1	528	1.5	<0.1	2.55%	<0.5
PG013199	<0.2	8.22%	<1	1630	1.5	0.3	9600	<0.5
PG013201	<0.2	6.74%	<1	348	1.0	<0.1	9900	<0.5
PG013203	<0.2	7.43%	<1	372	1.0	<0.1	1.67%	<0.5
PG013205	<0.2	6.87%	<1	98	1.0	<0.1	1.20%	<0.5
Std Nominal	0.4	6.16%	749	142			2.79%	
Determined	0.4	6.24%	769	144	2.0	0.7	2.85%	0.5
PG013207	<0.2	10.0%	2	844	2.0	0.2	3900	<0.5
PG013209	<0.2	9.38%	<1	610	1.5	<0.1	4200	<0.5
PG013211	<0.2	9.57%	<1	660	1.5	<0.1	1.36%	<0.5
PG013213	<0.2	7.54%	<1	246	1.5	<0.1	1.58%	<0.5
PG013215	<0.2	9.85%	<1	658	1.5	<0.1	4500	<0.5

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Reference: aa041564.b Order Number: E0839 Page 5 of 33

Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
BLANK 1	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG012953	65	300	2.2	76	14.6%	26.6	3.8	0.30
PG012955	60	260	1.8	63	13.5%	24.8	3.2	0.10
PG012957	50	190	1.5	48	12.3%	23.6	3.0	0.10
PG012959	35	260	0.9	18	10.5%	22.8	3.8	0.10
PG012961	38	240	1.4	55	10.7%	26.2	4.8	0.10
PG012963	50	240	1.2	141	11.7%	25.0	4.2	0.10
PG012965	46	260	1.3	83	12.6%	26.4	4.2	0.10
PG012967	41	260	1.6	142	10.7%	28.2	4.2	0.10
PG012969	48	260	1.0	130	11.6%	25.2	4.4	0.10
PG012971	38	240	1.2	144	9.92%	24.2	4.0	0.10
PG012973	34	210	1.8	240	7.73%	26.6	4.6	0.10
Std Nominal	160	2060		120	9.79%			
Determined	158	1980	2.7	119	10.1%	15.0	1.4	0.10
PG012975	46	280	0.9	50	12.9%	24.2	4.0	0.10
PG012977	41	280	1.5	120	11.6%	27.4	4.0	0.10
PG012979	38	220	1.7	119	10.5%	27.4	4.0	0.10
PG012979 Rpt	36	210	1.6	112	10.3%	26.2	4.0	0.10
PG012981	29	170	0.6	69	7.09%	15.0	2.8	0.10
PG012983	50	240	1.1	82	11.6%	26.2	4.4	0.10
PG012985	40	190	0.9	43	11.1%	21.4	3.4	0.10
PG012987	44	280	1.1	101	12.1%	24.2	4.2	0.10
PG012989	46	260	1.4	135	12.1%	25.0	4.2	0.10
PG012991	36	210	2.0	90	10.0%	24.6	4.4	0.10
PG012993	40	260	1.3	94	11.0%	24.2	4.2	0.10
PG012995	51	240	1.2	118	12.7%	27.6	5.0	0.10
PG012997	31	240	1.6	49	11.0%	24.2	4.2	0.10
PG012999	34	330	1.5	25	12.8%	22.0	7.6	0.10
PG013001	34	300	2.0	21	11.8%	25.2	4.8	0.10
PG013003	40	280	3.0	95	10.5%	31.2	5.0	0.10
PG013005	36	240	2.7	123	10.0%	29.4	4.6	0.10
PG013007	37	240	2.0	89	10.2%	25.8	5.0	0.10
PG013009	41	240	1.9	131	12.1%	27.4	4.2	0.10
PG013011	25	210	3.1	53	10.1%	26.4	4.0	0.10
PG013013	28	190	2.7	7	7.43%	25.6	6.0	0.10
PG013015	49	260	1.8	209	11.8%	25.8	3.8	0.10
PG013017	45	260	2.0	95	11.4%	26.6	4.0	0.10
PG013017 Rpt	44	260	1.9	92	12.1%	26.8	4.0	0.10
PG013019	39	280	1.8	103	11.6%	24.6	3.8	0.10
Std Nominal	43	220		1520	8.65%			
Determined	42	230	18.0	1510	8.36%	22.2	2.8	0.60



Reference: aa041564.b Order Number: E0839 Page 6 of 33

Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
PG013021	38	300	2.1	144	9.92%	25.0	3.8	0.10
PG013023	39	260	1.7	164	10.9%	24.6	3.8	0.10
PG013025	39	240	1.6	106	10.3%	22.4	3.2	0.10
PG013027	42	260	1.8	170	10.2%	25.2	3.6	0.10
PG013029	44	240	1.9	145	9.92%	25.2	3.6	0.10
PG013031	41	260	1.8	133	10.3%	24.8	3.8	0.10
PG013033	41	260	2.0	146	10.5%	26.4	4.0	0.10
PG013035	42	240	1.8	118	10.8%	26.4	3.8	0.10
PG013037	36	240	1.6	152	9.61%	23.6	3.4	0.10
PG013039	34	240	1.7	62	8.71%	24.8	3.8	0.10
PG013041	33	240	1.9	108	8.23%	27.0	4.0	0.10
BLANK 2	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG013043	29	250	1.5	132	9.15%	28.4	4.6	0.10
PG013045	34	270	1.7	96	8.70%	30.4	4.2	0.10
PG013047	32	250	1.4	186	10.0%	28.6	4.0	0.10
PG013049	52	250	1.5	146	8.80%	29.4	4.0	0.10
PG013051	41	250	2.1	107	7.94%	33.6	5.8	0.10
PG013053	42	270	1.7	110	9.15%	30.4	4.0	0.10
PG013055	39	210	2.0	143	6.31%	28.6	4.0	0.10
PG013057	43	250	2.0	240	8.03%	30.8	4.2	0.10
PG013059	36	190	2.0	788	5.47%	25.8	3.8	0.10
PG013061	35	250	1.4	144	9.34%	27.0	3.8	0.10
PG013063	35	240	1.6	225	9.34%	29.0	4.0	0.10
Std Nominal	4	30	0.7	3	1.57%	11.0	1.6	<0.05
Determined	4	50	0.8	4	1.60%	11.0	1.6	<0.05
PG013065	36	270	1.6	126	9.42%	29.0	4.0	0.10
PG013067	31	250	1.3	79	9.00%	26.4	3.6	0.10
PG013069	35	250	1.2	101	9.61%	27.4	4.0	0.10
Std Nominal	16	90	9.6	7550	5.80%	23.0	2.0	0.60
Determined	17	100	9.7	7620	5.68%	22.6	2.0	0.60
PG013071	39	240	1.3	219	9.25%	27.8	3.6	0.10
PG013073	41	250	1.5	133	8.78%	27.8	3.8	0.10
PG013075	34	210	1.4	138	8.79%	25.0	3.4	0.10
PG013075 Rpt	34	210	1.4	146	9.17%	25.8	3.4	0.10
PG013077	34	240	2.0	78	7.15%	27.4	3.6	0.10
PG013079	54	250	1.7	107	8.17%	26.4	3.8	0.10
PG013081	55	290	1.6	141	10.4%	29.8	3.8	0.10
PG013083	49	240	2.1	85	9.14%	26.8	3.6	0.10
PG013083 Rpt	50	250	2.1	83	9.42%	27.6	3.6	0.10
PG013085	32	190	2.3	8	8.78%	22.2	2.8	0.10
PG013087	32	210	1.8	42	9.25%	24.4	3.2	0.10



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Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
PG013089	33	270	3.6	12	10.8%	26.6	3.4	0.10
PG013091	34	210	3.2	183	8.55%	24.4	3.0	0.10
PG013093	34	250	3.4	403	10.1%	27.0	3.2	0.10
PG013095	39	190	2.7	140	10.4%	24.6	2.8	0.10
PG013097	34	240	1.7	214	10.4%	26.8	3.2	0.10
PG013099	46	240	0.4	198	10.4%	24.6	3.2	0.10
PG013101	26	240	1.0	100	9.52%	22.8	2.8	0.10
PG013103	41	270	2.4	117	9.71%	28.6	3.6	0.10
PG013105	28	210	1.6	103	8.03%	22.4	2.8	0.10
PG013107	34	290	1.6	55	11.2%	25.4	3.8	0.10
PG013109	22	140	1.8	76	5.46%	23.6	3.2	<0.05
PG013111	13	50	1.3	7	3.52%	21.4	3.6	<0.05
PG013113	12	50	1.2	12	2.86%	18.8	3.0	<0.05
PG013115	12	50	1.2	13	3.46%	20.4	3.4	<0.05
PG013117	12	40	1.5	9	3.21%	21.2	3.4	<0.05
PG013119	12	40	1.4	26	3.21%	21.0	3.2	<0.05
PG013121	15	50	1.5	23	3.23%	23.2	3.8	<0.05
PG013123	14	40	1.4	20	3.17%	22.8	3.8	<0.05
PG013125	13	40	1.1	16	3.47%	20.8	3.4	<0.05
PG013127	38	270	1.6	86	9.94%	26.4	3.8	0.10
PG013129	40	210	1.4	188	8.55%	27.4	4.6	0.10
PG013131	37	210	1.6	97	9.08%	29.8	5.0	0.10
BLANK 3	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG013133	38	170	1.9	114	8.42%	31.8	5.8	0.15
PG013135	33	240	1.5	102	7.83%	24.6	3.8	0.10
PG013137	50	250	1.5	56	8.57%	27.0	3.8	0.10
PG013139	37	240	1.2	75	9.14%	27.2	4.0	0.10
PG013141	35	250	1.6	93	7.83%	27.2	4.0	0.10
PG013143	34	240	1.7	139	7.33%	26.8	3.8	0.10
PG013145	38	270	1.7	216	8.32%	30.4	4.2	0.10
PG013147	28	270	1.6	97	6.59%	28.6	4.2	0.10
Std Nominal	16	90	12.2	2600	4.54%	19.6	2.6	0.20
Determined	15	90	12.4	2560	4.74%	19.6	2.8	0.20
PG013149	39	240	1.2	104	9.68%	26.8	3.6	0.30
PG013151	37	250	1.2	109	10.5%	26.6	3.6	0.10
PG013153	38	240	1.8	120	7.62%	27.8	4.0	0.10
PG013155	64	290	1.9	392	9.29%	30.0	4.0	0.10
PG013157	25	150	1.3	125	6.40%	22.0	3.0	0.10
PG013159	46	250	1.6	205	8.52%	23.2	4.0	0.10
PG013161	43	210	2.2	47	8.79%	24.6	3.6	0.10
PG013163	40	250	2.3	92	8.94%	26.6	3.8	0.10





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Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
PG013165	37	250	3.1	132	9.20%	29.0	4.0	0.10
PG013167	44	340	1.0	57	10.6%	21.8	5.2	<0.05
PG013169	44	370	0.9	75	10.9%	20.8	5.4	0.10
PG013169 Rpt	46	370	0.9	75	10.6%	21.2	5.2	<0.05
PG013171	48	370	2.1	124	10.1%	27.6	5.6	0.10
PG013173	47	390	0.8	107	10.6%	21.2	5.8	<0.05
PG013175	45	370	0.9	61	10.3%	21.2	5.2	<0.05
PG013177	36	310	1.6	52	7.86%	22.4	5.0	0.10
PG013179	50	310	3.7	153	12.3%	34.0	4.2	0.10
PG013181	43	330	1.6	117	9.00%	23.4	5.0	0.10
PG013183	43	340	3.5	72	11.1%	31.8	4.8	0.10
PG013185	34	330	2.9	46	8.52%	27.2	5.0	0.10
PG013187	47	310	0.8	90	9.68%	18.6	5.8	<0.05
PG013189	36	240	0.9	13	7.57%	17.6	4.4	<0.05
PG013191	42	340	2.0	26	8.61%	25.8	5.0	0.10
PG013193	37	310	1.3	21	7.09%	21.2	5.2	<0.05
PG013195	37	310	1.0	26	7.25%	20.0	5.8	<0.05
PG013195 Rpt	39	310	1.1	27	7.36%	20.8	6.2	<0.05
PG013197	52	270	2.5	49	11.0%	29.0	4.0	0.10
PG013199	35	270	2.2	104	8.77%	23.0	4.0	<0.05
PG013201	44	330	0.8	47	9.58%	19.0	5.6	<0.05
PG013203	26	270	1.7	41	5.36%	20.2	4.6	<0.05
PG013205	53	330	0.6	60	11.4%	19.0	6.0	<0.05
Std Nominal	160	2060		120	9.79%			
Determined	164	2010	2.6	120	9.68%	15.8	1.6	0.10
PG013207	45	250	3.7	103	10.8%	32.6	4.0	0.10
PG013209	42	250	3.2	139	10.7%	29.2	3.8	0.10
PG013211	41	240	3.6	52	9.68%	31.0	4.0	0.10
PG013213	26	240	1.3	25	5.49%	19.4	4.8	<0.05
PG013215	36	250	3.6	75	11.0%	30.2	3.6	0.10

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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
BLANK 1	<100	<10	<100	4	<0.5	<100	<0.5	<2
PG012953	2.53%	40	2.77%	862	<0.5	4800	4.5	132
PG012955	2.01%	40	3.25%	1070	<0.5	7200	4.0	116
PG012957	1.72%	40	3.02%	1150	<0.5	9700	4.0	102
PG012959	1.36%	40	2.55%	1170	<0.5	1.46%	6.5	114
PG012961	1.84%	40	2.10%	854	<0.5	1.67%	7.0	124
PG012963	1.53%	50	2.24%	764	<0.5	1.33%	6.5	136
PG012965	1.59%	50	2.38%	818	<0.5	1.19%	7.0	146
PG012967	2.39%	50	2.36%	716	<0.5	7300	8.5	134
PG012969	1.31%	50	2.16%	764	<0.5	1.40%	7.5	132
PG012971	1.53%	40	1.60%	1150	<0.5	1.38%	8.5	112
PG012973	2.36%	30	1.41%	518	4.5	1.14%	8.5	104
Std Nominal	5600		6.85%	2380		6300		1180
Determined	5800	10	6.80%	2440	1.0	6200	2.5	1170
PG012975	1.19%	50	1.94%	792	<0.5	1.53%	4.5	142
PG012977	2.12%	50	2.07%	740	<0.5	1.08%	4.5	136
PG012979	2.30%	40	1.82%	704	<0.5	1.02%	5.5	134
PG012979 Rpt	2.12%	40	1.84%	706	<0.5	1.00%	5.5	134
PG012981	6200	30	1.30%	790	<0.5	8800	5.5	82
PG012983	1.22%	50	2.04%	900	<0.5	1.12%	8.5	130
PG012985	8900	50	2.88%	1480	<0.5	9600	6.5	114
PG012987	1.30%	50	2.12%	780	<0.5	1.21%	6.5	136
PG012989	1.53%	50	2.07%	816	<0.5	1.14%	7.0	140
PG012991	1.59%	50	2.03%	676	<0.5	1.39%	6.5	106
PG012993	1.44%	50	1.90%	702	<0.5	1.49%	5.5	124
PG012995	1.26%	60	2.36%	780	1.0	1.21%	6.0	142
PG012997	1.85%	30	1.47%	646	<0.5	1.86%	8.5	118
PG012999	1.72%	30	1.43%	638	<0.5	1.78%	9.0	120
PG013001	2.33%	30	1.32%	566	1.5	1.61%	10.0	124
PG013003	3.17%	30	1.40%	428	<0.5	1.10%	8.5	130
PG013005	3.10%	30	1.40%	442	<0.5	1.04%	8.5	138
PG013007	2.20%	30	1.39%	700	<0.5	1.45%	8.0	118
PG013009	2.32%	40	1.65%	612	<0.5	1.79%	9.0	134
PG013011	3.27%	30	1.23%	414	<0.5	6100	6.5	98
PG013013	2.61%	30	1.24%	444	<0.5	9000	15.5	92
PG013015	1.82%	60	2.48%	664	<0.5	5000	6.0	148
PG013017	1.93%	60	2.35%	716	<0.5	5500	6.5	142
PG013017 Rpt	1.99%	60	2.43%	768	<0.5	5700	6.5	148
PG013019	2.02%	60	2.32%	1000	<0.5	6200	6.0	138
Std Nominal	2.35%		1.77%	1180	54.0	1.30%		74
Determined	2.26%	<10	1.70%	1150	52.0	1.27%	4.5	72



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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
PG013021	2.27%	50	2.08%	528	<0.5	5200	6.5	128
PG013023	1.94%	60	2.13%	630	<0.5	4800	6.0	130
PG013025	1.58%	50	2.02%	876	<0.5	5800	5.5	118
PG013027	1.75%	50	2.09%	570	<0.5	4100	6.0	124
PG013029	1.87%	50	2.06%	578	<0.5	4400	6.5	124
PG013031	1.82%	60	2.17%	578	<0.5	5200	7.0	134
PG013033	2.05%	60	2.24%	576	<0.5	6300	8.5	136
PG013035	2.00%	60	2.33%	606	<0.5	5300	7.5	134
PG013037	1.57%	50	2.11%	614	<0.5	6400	6.5	122
PG013039	2.42%	60	1.73%	416	<0.5	4000	8.5	130
PG013041	2.48%	60	1.71%	398	<0.5	3200	10.5	130
BLANK 2	<100	<10	<100	4	<0.5	<100	<0.5	<2
PG013043	2.01%	60	1.89%	494	<0.5	4800	10.0	128
PG013045	2.60%	60	1.86%	414	<0.5	4500	10.5	144
PG013047	1.96%	60	2.11%	498	<0.5	4900	9.5	124
PG013049	2.30%	50	1.98%	414	3.0	4200	8.5	174
PG013051	3.00%	40	1.72%	398	2.5	6400	12.5	148
PG013053	2.26%	50	2.04%	432	<0.5	3400	10.0	158
PG013055	2.85%	40	1.31%	346	<0.5	6200	10.0	124
PG013057	2.55%	50	1.72%	400	2.5	4800	10.5	138
PG013059	2.59%	40	1.10%	590	9.0	3400	10.5	96
PG013061	2.25%	70	2.04%	390	1.0	4900	8.0	142
PG013063	2.18%	60	2.05%	462	3.0	5800	8.5	126
Std Nominal	2.59%	<10	2300	780	7.0	2300	7.5	8
Determined	2.61%	<10	2400	758	7.0	2300	7.0	10
PG013065	1.98%	60	2.11%	454	<0.5	6500	9.0	148
PG013067	1.86%	60	1.98%	502	<0.5	4600	8.5	128
PG013069	1.66%	70	2.10%	742	<0.5	7900	8.5	132
Std Nominal	3.10%	30	1.70%	600	274		16.0	50
Determined	3.08%	30	1.63%	616	279	2.09%	16.5	34
PG013071	1.82%	70	2.01%	866	2.0	5400	9.5	146
PG013073	2.10%	60	1.90%	416	1.0	4200	9.5	136
PG013075	1.88%	60	2.08%	610	<0.5	4300	8.5	122
PG013075 Rpt	1.97%	60	2.09%	622	<0.5	4500	8.0	124
PG013077	2.65%	40	1.43%	342	1.0	3500	7.5	124
PG013079	2.55%	50	1.83%	422	2.0	6600	7.0	132
PG013081	2.28%	70	2.33%	468	1.0	4900	8.5	174
PG013083	2.18%	50	1.75%	582	1.5	1.16%	7.5	136
PG013083 Rpt	2.21%	50	1.81%	602	1.5	1.18%	7.5	140
PG013085	2.01%	20	1.10%	1380	<0.5	1.71%	6.5	116
PG013087	1.81%	30	1.34%	1210	<0.5	2.05%	7.0	126



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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
PG013089	3.35%	20	1.16%	378	<0.5	1.14%	5.5	136
PG013091	2.72%	20	1.24%	938	<0.5	9300	5.0	110
PG013093	2.87%	30	1.35%	414	<0.5	9600	4.5	128
PG013095	2.18%	30	1.37%	640	<0.5	1.49%	4.0	116
PG013097	1.78%	40	1.36%	548	<0.5	1.83%	5.5	116
PG013099	3300	40	1.31%	562	<0.5	3.33%	6.5	116
PG013101	1.37%	40	1.13%	624	<0.5	1.30%	6.0	100
PG013103	2.55%	50	1.76%	592	<0.5	2800	6.0	132
PG013105	2.18%	40	1.27%	2250	<0.5	2200	7.0	100
PG013107	1.73%	40	1.49%	612	<0.5	1.28%	6.5	128
PG013109	1.91%	30	1.37%	602	1.5	1.05%	5.5	68
PG013111	1.13%	30	1.19%	416	2.0	3.16%	4.0	24
PG013113	9500	20	1.00%	614	1.5	2.74%	4.0	22
PG013115	1.09%	30	1.41%	664	1.5	3.31%	4.0	26
PG013117	1.13%	20	1.27%	622	1.0	3.15%	4.0	22
PG013119	1.00%	20	1.16%	490	1.5	3.06%	4.5	22
PG013121	1.02%	30	1.23%	488	1.5	3.17%	4.5	24
PG013123	9300	30	1.19%	476	1.5	3.25%	4.5	22
PG013125	1.04%	30	1.25%	560	2.0	3.31%	4.5	24
PG013127	2.19%	60	1.88%	690	1.0	4000	8.0	130
PG013129	2.55%	60	1.85%	428	<0.5	5400	10.5	130
PG013131	2.69%	60	1.98%	436	<0.5	6000	10.5	138
BLANK 3	<100	<10	<100	4	<0.5	<100	<0.5	<2
PG013133	2.81%	60	1.81%	366	<0.5	6200	10.5	134
PG013135	2.30%	50	1.65%	354	<0.5	6000	8.5	114
PG013137	2.08%	50	1.87%	440	<0.5	6300	9.0	128
PG013139	1.54%	60	1.95%	462	1.5	1.05%	9.0	136
PG013141	2.12%	50	1.68%	356	<0.5	8800	9.5	126
PG013143	2.19%	50	1.53%	356	<0.5	7900	9.5	124
PG013145	2.49%	60	1.80%	496	<0.5	1.05%	11.0	142
PG013147	2.05%	50	1.42%	328	<0.5	1.39%	10.5	108
Std Nominal	3.14%	30	1.48%	546	99.0	2.08%	18.0	42
Determined	3.14%	30	1.53%	560	99.5	2.06%	17.5	42
PG013149	1.78%	70	2.02%	430	<0.5	5800	9.5	134
PG013151	1.80%	70	2.17%	428	<0.5	6200	8.5	148
PG013153	2.66%	50	1.53%	318	<0.5	8600	9.0	132
PG013155	2.70%	60	1.87%	426	<0.5	6900	10.5	148
PG013157	1.61%	50	1.26%	2880	<0.5	7100	8.5	90
PG013159	1.72%	50	1.81%	766	<0.5	6700	8.5	120
PG013161	2.31%	60	1.90%	540	<0.5	4100	8.5	130
PG013163	2.60%	70	1.98%	490	<0.5	3500	10.0	130



Reference: aa041564.b Order Number: E0839 Page 12 of 33

Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
PG013165	2.66%	60	2.08%	608	<0.5	4600	9.5	128
PG013167	8700	50	1.76%	612	<0.5	2.62%	6.5	136
PG013169	8100	50	1.84%	662	<0.5	2.32%	6.5	134
PG013169 Rpt	8000	50	1.80%	646	<0.5	2.32%	6.0	136
PG013171	1.67%	50	1.80%	652	<0.5	1.71%	7.0	148
PG013173	6500	50	1.86%	664	<0.5	2.36%	6.5	138
PG013175	8000	50	1.82%	692	<0.5	2.20%	6.5	134
PG013177	1.33%	40	1.60%	982	<0.5	2.30%	6.0	128
PG013179	3.09%	60	2.37%	1030	<0.5	9900	6.0	186
PG013181	1.28%	50	1.85%	1580	<0.5	2.35%	7.0	144
PG013183	2.78%	60	1.96%	890	<0.5	1.14%	7.0	150
PG013185	2.31%	50	1.68%	716	<0.5	1.66%	6.5	130
PG013187	5600	60	2.06%	896	<0.5	2.34%	5.5	130
PG013189	6900	40	1.61%	2200	<0.5	2.46%	6.5	108
PG013191	1.64%	50	1.99%	860	<0.5	2.15%	7.0	150
PG013193	1.07%	50	1.75%	856	<0.5	2.13%	7.0	126
PG013195	9200	50	1.71%	964	<0.5	2.53%	6.0	126
PG013195 Rpt	9200	50	1.63%	974	<0.5	2.57%	6.5	122
PG013197	2.22%	70	2.51%	1150	<0.5	1.14%	6.5	160
PG013199	1.96%	60	1.80%	848	<0.5	1.63%	5.5	128
PG013201	6800	60	2.08%	884	<0.5	2.29%	5.5	134
PG013203	1.50%	40	1.31%	698	<0.5	2.46%	7.0	110
PG013205	4100	70	2.40%	1010	<0.5	2.40%	4.5	142
Std Nominal	5600		6.85%	2380		6300		1180
Determined	5600	10	7.17%	2440	1.0	6600	2.5	1200
PG013207	3.18%	60	2.21%	812	<0.5	1.09%	6.5	164
PG013209	2.97%	60	2.13%	810	<0.5	9700	6.0	166
PG013211	3.01%	60	2.00%	878	<0.5	8100	5.0	144
PG013213	1.11%	30	1.21%	690	<0.5	2.71%	6.0	100
PG013215	3.03%	50	1.75%	660	<0.5	8300	5.0	136

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Reference: aa041564.b Order Number: E0839 Page 13 of 33

Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
BLANK 1	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG012953	400	2	100	<0.1	750	0.6	47	<5
PG012955	600	2	75.0	<0.1	900	0.4	45	<5
PG012957	500	2	70.2	<0.1	250	0.5	42	<5
PG012959	350	3	61.2	<0.1	1800	0.3	29	<5
PG012961	400	4	89.4	<0.1	650	0.3	31	<5
PG012963	450	4	69.0	<0.1	1150	0.3	32	<5
PG012965	400	4	71.2	<0.1	300	0.3	32	<5
PG012967	450	4	103	<0.1	750	0.3	37	<5
PG012969	350	4	61.0	<0.1	250	0.3	28	<5
PG012971	350	5	70.8	<0.1	450	0.3	29	<5
PG012973	350	5	107	<0.1	350	0.3	34	<5
Std Nominal	100	39			600	4.0	33	
Determined	100	39	26.2	<0.1	650	4.1	33	<5
PG012975	350	5	51.0	<0.1	850	0.3	31	<5
PG012977	450	4	89.6	<0.1	350	0.2	35	<5
PG012979	450	5	97.6	<0.1	250	0.2	37	<5
PG012979 Rpt	450	5	93.8	<0.1	250	0.2	36	<5
PG012981	250	4	30.0	<0.1	850	0.3	18	<5
PG012983	400	5	62.0	<0.1	250	0.3	31	<5
PG012985	300	3	44.6	<0.1	1250	0.4	26	<5
PG012987	350	4	58.8	<0.1	250	0.3	31	<5
PG012989	450	4	67.8	<0.1	500	0.3	33	<5
PG012991	350	5	76.8	<0.1	500	0.3	28	<5
PG012993	450	4	65.4	<0.1	600	0.3	28	<5
PG012995	400	4	60.8	<0.1	350	0.2	32	<5
PG012997	350	5	82.2	<0.1	400	0.4	30	<5
PG012999	450	5	79.4	<0.1	500	0.5	30	<5
PG013001	600	5	103	<0.1	100	0.6	34	<5
PG013003	400	7	149	<0.1	150	0.5	39	<5
PG013005	500	5	137	<0.1	250	0.4	38	<5
PG013007	500	5	101	<0.1	200	0.4	32	<5
PG013009	350	6	98.4	<0.1	1550	0.6	34	<5
PG013011	400	6	152	<0.1	100	0.3	36	<5
PG013013	400	6	131	<0.1	100	0.4	24	<5
PG013015	350	4	88.6	<0.1	300	0.2	35	<5
PG013017	350	4	97.6	<0.1	350	0.3	35	<5
PG013017 Rpt	400	4	96.2	<0.1	400	0.3	36	<5
PG013019	350	4	89.6	<0.1	350	0.3	35	<5
Std Nominal	600	521	561		2.01%	12.0	15	
Determined	600	520	546	<0.1	2.01%	12.1	15	5



Reference: aa041564.b Order Number: E0839 Page 14 of 33

Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
PG013021	350	5	101	<0.1	450	0.4	37	<5
PG013023	350	4	87.8	<0.1	600	0.2	34	<5
PG013025	350	4	76.2	<0.1	600	0.3	30	<5
PG013027	350	5	90.6	<0.1	700	0.3	32	<5
PG013029	350	5	94.8	<0.1	400	0.3	34	<5
PG013031	350	5	88.6	<0.1	300	0.2	35	<5
PG013033	350	5	98.4	<0.1	450	0.3	36	<5
PG013035	350	5	92.0	<0.1	600	0.3	34	<5
PG013037	350	5	78.6	<0.1	1000	0.3	31	<5
PG013039	350	5	98.4	<0.1	4350	0.3	33	<5
PG013041	350	5	111	<0.1	4750	0.3	34	<5
BLANK 2	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG013043	350	4	91.8	<0.1	1550	0.2	34	<5
PG013045	350	10	111	<0.1	3100	0.3	36	<5
PG013047	350	36	85.0	<0.1	3250	0.5	33	<5
PG013049	350	204	99.4	<0.1	5450	0.8	34	<5
PG013051	350	32	133	<0.1	6700	0.9	38	<5
PG013053	350	9	104	<0.1	4400	0.6	35	<5
PG013055	300	114	125	<0.1	4550	0.6	33	<5
PG013057	300	7	117	<0.1	4100	0.4	33	<5
PG013059	250	5	117	<0.1	4600	0.5	27	<5
PG013061	350	5	88.0	<0.1	5750	0.3	33	<5
PG013063	350	8	93.8	<0.1	4250	0.3	32	<5
Std Nominal	100	18	88.0	<0.1	<50	<0.1	3	<5
Determined	150	17	89.4	<0.1	<50	<0.1	3	<5
PG013065	350	125	89.2	<0.1	4000	0.5	34	<5
PG013067	350	5	83.2	<0.1	2250	0.4	33	<5
PG013069	350	5	72.2	<0.1	3650	0.3	32	<5
Std Nominal	1000	29	145		9250	0.9	14	5
Determined	1000	29	141	<0.1	9250	0.9	14	10
PG013071	350	5	81.6	<0.1	5200	0.3	33	<5
PG013073	350	4	93.0	<0.1	3150	0.3	34	<5
PG013075	350	3	83.8	<0.1	2650	0.3	30	<5
PG013075 Rpt	350	3	85.0	<0.1	2650	0.3	30	<5
PG013077	300	4	113	<0.1	3150	0.2	32	<5
PG013079	350	4	101	<0.1	5400	0.3	33	<5
PG013081	350	5	95.6	<0.1	9850	0.3	33	<5
PG013083	350	4	107	<0.1	3800	0.4	33	<5
PG013083 Rpt	350	4	107	<0.1	3850	0.4	34	<5
PG013085	350	5	101	<0.1	1550	0.5	28	<5
PG013087	400	5	88.8	<0.1	400	0.3	32	<5



Reference: aa041564.b Order Number: E0839 Page 15 of 33

Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
PG013089	450	5	163	<0.1	600	0.4	35	<5
PG013091	350	5	140	<0.1	750	0.4	29	<5
PG013093	500	5	151	<0.1	450	0.3	32	<5
PG013095	500	5	114	<0.1	1950	0.3	29	<5
PG013097	400	5	85.8	<0.1	3550	0.3	32	<5
PG013099	350	6	16.4	<0.1	5700	0.3	27	<5
PG013101	350	4	57.2	<0.1	4600	0.3	28	<5
PG013103	350	3	122	<0.1	450	0.2	35	<5
PG013105	350	5	96.6	<0.1	4150	0.3	27	<5
PG013107	450	4	80.2	<0.1	1300	0.3	33	<5
PG013109	350	5	94.8	<0.1	1450	0.3	20	<5
PG013111	400	6	58.2	<0.1	150	0.3	10	<5
PG013113	350	5	53.0	<0.1	200	0.3	9	<5
PG013115	400	5	54.8	<0.1	100	0.3	10	<5
PG013117	400	6	61.2	<0.1	250	0.3	10	<5
PG013119	350	7	52.2	<0.1	150	0.3	10	<5
PG013121	400	10	57.6	<0.1	150	0.3	10	<5
PG013123	400	11	53.2	<0.1	150	0.4	10	<5
PG013125	400	7	54.8	<0.1	350	0.4	10	<5
PG013127	350	3	86.6	<0.1	2500	0.3	34	<5
PG013129	400	5	101	<0.1	5300	0.3	34	<5
PG013131	700	5	108	<0.1	4400	0.3	36	<5
BLANK 3	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG013133	1400	9	126	<0.1	3750	0.3	36	<5
PG013135	300	6	94.8	<0.1	4250	0.3	32	<5
PG013137	300	5	93.8	<0.1	6550	0.3	32	<5
PG013139	350	5	71.2	<0.1	3050	0.3	31	<5
PG013141	350	11	95.6	<0.1	3400	0.4	33	<5
PG013143	350	8	104	<0.1	4900	0.4	32	<5
PG013145	350	5	109	<0.1	4900	0.4	38	<5
PG013147	350	15	98.4	<0.1	2200	0.3	33	<5
Std Nominal	1000	23	184	<0.1	3550	0.9	13	<5
Determined	1000	22	186	<0.1	3650	0.8	14	<5
PG013149	350	188	79.4	<0.1	3900	0.3	32	<5
PG013151	350	12	75.0	<0.1	4100	0.3	33	<5
PG013153	350	38	109	<0.1	5650	0.6	35	<5
PG013155	350	97	112	<0.1	7400	0.5	37	<5
PG013157	250	54	74.8	<0.1	4150	0.4	26	<5
PG013159	350	4	75.0	<0.1	3050	0.3	29	<5
PG013161	350	4	100	<0.1	1650	0.3	33	<5
PG013163	350	4	114	<0.1	450	0.3	36	<5





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Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
PG013165	350	5	122	<0.1	400	0.3	36	<5
PG013167	350	5	42.8	<0.1	100	0.3	23	<5
PG013169	350	7	38.6	<0.1	5850	0.3	22	<5
PG013169 Rpt	350	7	38.8	<0.1	5850	0.3	22	<5
PG013171	400	11	88.4	<0.1	4750	0.3	28	<5
PG013173	350	11	32.4	<0.1	1100	0.3	22	<5
PG013175	350	17	37.6	<0.1	6400	0.3	22	<5
PG013177	350	6	63.2	<0.1	200	0.2	25	<5
PG013179	500	7	148	<0.1	100	0.3	40	<5
PG013181	350	6	65.2	<0.1	200	0.3	26	<5
PG013183	450	9	146	<0.1	100	0.3	37	<5
PG013185	400	7	118	<0.1	100	0.3	32	<5
PG013187	350	5	28.8	<0.1	100	0.3	21	<5
PG013189	350	6	34.4	<0.1	300	0.4	20	<5
PG013191	350	6	79.0	<0.1	<50	0.3	28	<5
PG013193	350	5	54.0	<0.1	100	0.3	23	<5
PG013195	350	5	42.2	<0.1	500	0.3	23	<5
PG013195 Rpt	350	5	44.4	<0.1	450	0.3	22	<5
PG013197	400	5	107	<0.1	600	0.3	35	<5
PG013199	400	5	91.0	<0.1	600	0.3	30	<5
PG013201	350	5	31.0	<0.1	100	0.3	22	<5
PG013203	350	6	67.2	<0.1	<50	0.3	25	<5
PG013205	350	5	19.2	<0.1	<50	0.3	21	<5
Std Nominal	100	39			600	4.0	33	
Determined	100	40	26.6	<0.1	650	4.1	33	<5
PG013207	450	9	155	<0.1	100	0.3	38	<5
PG013209	350	7	136	<0.1	100	0.3	35	<5
PG013211	400	7	146	<0.1	<50	0.3	36	<5
PG013213	300	6	51.8	<0.1	<50	0.3	22	<5
PG013215	400	9	151	<0.1	<50	0.3	36	<5

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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
BLANK 1	<0.1	<0.5	<0.1	<0.2	<0.1	<50	<0.1	<0.1
PG012953	1.5	19.5	0.4	<0.2	3.2	5550	0.3	0.3
PG012955	1.3	20.0	0.3	<0.2	3.2	4900	0.2	0.3
PG012957	1.2	26.0	0.3	<0.2	3.0	4300	0.3	0.3
PG012959	1.5	31.0	0.5	<0.2	9.3	5050	0.3	1.3
PG012961	1.7	35.5	0.5	<0.2	11.3	5000	0.4	1.7
PG012963	1.5	33.5	0.5	<0.2	9.8	4200	0.3	1.3
PG012965	1.7	33.0	0.6	<0.2	9.3	5350	0.3	1.5
PG012967	2.0	27.5	0.7	<0.2	9.2	6750	0.4	1.5
PG012969	1.6	34.5	0.6	<0.2	11.2	5350	0.3	1.6
PG012971	1.8	71.0	0.7	<0.2	10.3	5850	0.3	1.5
PG012973	2.0	44.5	0.7	<0.2	12.2	6550	0.5	2.2
Std Nominal	1.0	42.0				3400		
Determined	1.1	44.0	0.2	0.2	2.2	3500	0.6	2.2
PG012975	1.4	50.5	0.4	<0.2	9.0	3700	0.2	1.3
PG012977	1.5	31.0	0.3	<0.2	10.4	3800	0.4	1.4
PG012979	1.7	42.5	0.4	<0.2	9.4	4050	0.4	1.6
PG012979 Rpt	1.7	40.5	0.4	<0.2	9.4	4150	0.4	1.5
PG012981	1.1	46.0	0.4	<0.2	7.3	3950	0.1	1.0
PG012983	1.8	51.0	0.7	<0.2	9.7	6050	0.3	1.5
PG012985	1.5	25.0	0.6	<0.2	7.3	5300	0.2	1.2
PG012987	1.6	37.5	0.5	<0.2	9.2	5350	0.3	1.4
PG012989	1.6	42.0	0.5	<0.2	9.4	5350	0.3	1.4
PG012991	1.6	54.0	0.5	<0.2	10.0	5050	0.3	1.7
PG012993	1.5	38.0	0.4	<0.2	10.6	4500	0.3	1.6
PG012995	1.7	36.5	0.5	<0.2	9.2	4100	0.3	1.3
PG012997	1.9	63.0	0.7	<0.2	8.3	7150	0.4	1.1
PG012999	1.6	64.0	0.6	<0.2	20.4	8650	0.3	1.7
PG013001	1.9	61.0	0.8	<0.2	9.3	9000	0.4	1.3
PG013003	2.0	56.0	0.7	<0.2	9.6	7100	0.6	1.5
PG013005	2.0	46.0	0.6	<0.2	8.8	8250	0.6	1.3
PG013007	1.8	64.0	0.6	<0.2	9.9	7250	0.4	1.3
PG013009	1.9	60.0	0.7	<0.2	7.4	6850	0.4	1.1
PG013011	1.7	38.5	0.5	<0.2	8.4	5300	0.7	1.1
PG013013	3.0	47.5	1.2	<0.2	14.1	5200	0.5	2.1
PG013015	1.6	25.5	0.5	<0.2	9.0	4500	0.4	1.3
PG013017	1.7	35.0	0.6	<0.2	9.7	5050	0.4	1.3
PG013017 Rpt	1.7	34.5	0.5	<0.2	9.4	4950	0.4	1.3
PG013019	1.5	38.0	0.5	<0.2	8.5	5200	0.4	1.2
Std Nominal		104				5100		
Determined	2.9	100	0.4	<0.2	3.2	5000	6.9	0.8



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
PG013021	1.7	29.5	0.6	<0.2	8.6	5850	0.4	1.3
PG013023	1.5	32.0	0.5	<0.2	8.9	4900	0.4	1.3
PG013025	1.4	36.5	0.5	<0.2	7.9	4450	0.3	1.1
PG013027	1.6	27.0	0.5	<0.2	9.3	4300	0.4	1.3
PG013029	1.8	32.0	0.6	<0.2	9.0	4950	0.4	1.3
PG013031	1.7	30.0	0.6	<0.2	8.8	5950	0.4	1.4
PG013033	2.0	34.5	0.7	<0.2	10.2	5950	0.4	1.5
PG013035	1.7	30.5	0.6	<0.2	9.6	4850	0.4	1.4
PG013037	1.5	37.5	0.6	<0.2	8.5	5050	0.3	1.1
PG013039	2.0	52.5	0.7	<0.2	11.5	5350	0.4	1.8
PG013041	2.1	55.5	0.7	<0.2	11.9	5500	0.4	1.8
BLANK 2	<0.1	<0.5	<0.1	<0.2	<0.1	<50	<0.1	<0.1
PG013043	2.1	54.5	0.8	0.2	12.4	5650	0.4	1.8
PG013045	2.4	60.5	0.9	<0.2	13.4	5950	0.5	1.9
PG013047	2.1	52.0	0.8	<0.2	12.1	5800	0.3	1.7
PG013049	1.8	55.0	0.8	<0.2	12.6	5100	0.4	1.7
PG013051	2.3	96.0	1.1	<0.2	17.8	5750	0.5	2.7
PG013053	2.0	55.5	0.8	<0.2	12.2	5550	0.4	1.6
PG013055	2.2	79.0	0.8	<0.2	12.5	5850	0.5	2.3
PG013057	2.1	68.0	0.9	<0.2	13.3	5700	0.5	2.0
PG013059	2.1	61.0	0.8	<0.2	12.4	5200	0.5	2.5
PG013061	1.7	52.5	0.7	<0.2	11.0	5400	0.4	1.6
PG013063	1.8	70.5	0.6	<0.2	11.7	4900	0.4	1.7
Std Nominal	0.7	124	0.6	<0.2	5.6	2400	0.4	39.6
Determined	0.7	125	0.5	<0.2	5.6	2400	0.5	39.1
PG013065	1.9	68.5	0.7	<0.2	11.8	5850	0.3	1.7
PG013067	2.0	50.5	0.7	<0.2	10.8	5200	0.3	1.5
PG013069	1.7	80.0	0.7	<0.2	11.5	5450	0.3	1.7
Std Nominal	11.0	364	0.9		14.0	4700	0.8	3.8
Determined	11.5	360	0.9	<0.2	14.1	4650	0.9	3.9
PG013071	1.6	74.5	0.7	<0.2	10.6	5350	0.3	1.6
PG013073	1.9	58.5	0.8	<0.2	11.5	5600	0.4	1.7
PG013075	1.7	45.5	0.7	<0.2	10.6	4850	0.3	1.5
PG013075 Rpt	1.8	46.0	0.6	<0.2	10.8	4700	0.3	1.6
PG013077	2.1	56.5	0.6	<0.2	11.3	4300	0.4	1.7
PG013079	1.7	46.0	0.6	<0.2	10.5	4500	0.4	1.8
PG013081	1.6	44.5	0.7	<0.2	10.5	5800	0.4	1.8
PG013083	1.7	71.5	0.6	<0.2	9.5	5050	0.4	1.4
PG013083 Rpt	1.8	76.0	0.6	<0.2	9.3	5100	0.4	1.4
PG013085	1.4	148	0.5	<0.2	7.9	4500	0.4	0.9
PG013087	1.6	141	0.6	<0.2	7.8	5300	0.3	1.0



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
PG013089	1.6	72.5	0.5	<0.2	8.2	5000	0.6	0.9
PG013091	1.4	86.5	0.5	<0.2	8.2	4300	0.5	1.0
PG013093	1.4	62.5	0.4	<0.2	8.5	3750	0.6	1.2
PG013095	1.3	99.0	0.4	<0.2	7.6	3400	0.4	1.1
PG013097	1.4	111	0.4	<0.2	8.1	3900	0.3	1.1
PG013099	1.3	254	0.5	0.2	8.3	4150	<0.1	1.0
PG013101	1.3	118	0.4	<0.2	7.1	4600	0.2	1.0
PG013103	1.9	33.0	0.5	<0.2	9.0	4050	0.5	1.4
PG013105	1.5	111	0.5	<0.2	7.9	5350	0.4	1.0
PG013107	1.4	95.0	0.5	<0.2	9.2	4500	0.3	1.0
PG013109	1.7	89.5	0.4	<0.2	8.9	3850	0.4	1.9
PG013111	1.2	224	0.4	<0.2	10.1	2450	0.3	3.0
PG013113	1.2	218	0.4	<0.2	8.9	2150	0.2	2.9
PG013115	1.1	199	0.4	<0.2	9.5	2350	0.3	2.7
PG013117	1.2	229	0.4	<0.2	10.0	2400	0.3	2.8
PG013119	1.1	261	0.4	<0.2	9.4	2700	0.3	2.7
PG013121	1.2	336	0.4	<0.2	10.6	2850	0.3	3.0
PG013123	1.3	323	0.5	<0.2	10.8	2700	0.3	3.1
PG013125	1.2	233	0.4	<0.2	9.7	2650	0.3	2.9
PG013127	1.9	61.5	0.6	<0.2	10.6	5300	0.3	1.5
PG013129	1.9	61.5	0.8	<0.2	13.2	6100	0.4	1.8
PG013131	2.1	70.5	0.8	<0.2	13.0	7200	0.4	2.3
BLANK 3	<0.1	<0.5	<0.1	<0.2	<0.1	<50	<0.1	<0.1
PG013133	2.6	86.5	0.8	<0.2	9.8	8100	0.5	2.9
PG013135	1.9	59.5	0.7	<0.2	10.7	5150	0.4	1.7
PG013137	2.1	66.0	0.8	<0.2	11.4	5400	0.4	1.7
PG013139	1.5	106	0.7	<0.2	12.2	5200	0.3	1.7
PG013141	2.1	88.0	0.8	<0.2	11.8	5400	0.4	1.7
PG013143	2.1	80.0	0.8	<0.2	11.9	5900	0.4	2.1
PG013145	2.2	98.0	0.9	<0.2	12.2	7500	0.5	2.0
PG013147	2.1	154	0.9	<0.2	13.1	6200	0.5	2.1
Std Nominal	5.6	338	1.4	<0.2	18.0	4650	0.9	4.9
Determined	5.4	329	1.4	<0.2	18.0	4800	1.0	4.7
PG013149	1.8	63.5	0.7	<0.2	11.2	5150	0.4	1.5
PG013151	1.7	66.5	0.7	<0.2	11.5	5400	0.3	1.6
PG013153	2.1	94.0	0.7	<0.2	12.2	5450	0.5	2.1
PG013155	2.3	77.5	0.8	<0.2	12.3	6600	0.5	1.8
PG013157	1.7	129	0.7	<0.2	9.7	4900	0.3	1.5
PG013159	1.9	69.5	0.7	<0.2	11.7	5150	0.3	1.6
PG013161	1.9	49.0	0.7	<0.2	10.4	5250	0.5	1.4
PG013163	2.0	48.0	0.8	<0.2	11.1	6000	0.5	1.5



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
PG013165	2.1	45.5	0.7	<0.2	12.4	5550	0.5	1.7
PG013167	1.4	88.5	0.6	<0.2	15.2	4600	0.2	1.7
PG013169	1.3	70.5	0.5	<0.2	14.8	4200	0.1	1.7
PG013169 Rpt	1.3	71.5	0.5	<0.2	15.3	3900	0.2	1.7
PG013171	1.8	69.0	0.6	<0.2	16.5	4550	0.3	1.9
PG013173	1.3	67.0	0.5	<0.2	15.3	4200	0.1	1.7
PG013175	1.3	68.0	0.5	<0.2	14.8	3950	0.1	1.7
PG013177	1.4	101	0.5	<0.2	13.2	4250	0.2	1.6
PG013179	1.6	66.5	0.5	<0.2	12.8	4600	0.5	1.9
PG013181	1.4	103	0.6	<0.2	14.0	5050	0.3	1.7
PG013183	1.7	72.0	0.6	<0.2	13.5	5050	0.6	1.8
PG013185	1.5	74.5	0.5	<0.2	13.8	5000	0.4	1.8
PG013187	1.1	74.5	0.4	<0.2	15.8	3700	0.1	1.7
PG013189	1.2	105	0.5	<0.2	12.8	4900	0.1	1.5
PG013191	1.5	77.5	0.6	<0.2	12.9	4650	0.3	1.7
PG013193	1.3	67.5	0.6	<0.2	14.1	5800	0.2	1.6
PG013195	1.2	95.0	0.4	<0.2	15.8	4400	0.2	1.6
PG013195 Rpt	1.3	100	0.5	<0.2	17.0	4400	0.2	1.7
PG013197	1.4	50.5	0.5	<0.2	12.7	4650	0.4	1.7
PG013199	1.3	78.0	0.5	<0.2	12.7	4050	0.3	1.5
PG013201	1.1	62.0	0.5	<0.2	14.8	3850	0.1	1.7
PG013203	1.4	78.0	0.6	<0.2	12.6	5450	0.2	1.3
PG013205	1.0	68.0	0.4	<0.2	16.0	3250	<0.1	1.8
Std Nominal	1.0	42.0				3400		
Determined	1.0	42.5	0.2	0.2	2.3	3500	0.6	2.3
PG013207	1.7	71.5	0.5	<0.2	13.0	4050	0.6	1.8
PG013209	1.5	47.5	0.5	<0.2	12.0	4300	0.5	1.7
PG013211	1.6	54.0	0.5	<0.2	13.0	4200	0.6	1.7
PG013213	1.3	82.5	0.5	<0.2	12.8	4600	0.2	1.3
PG013215	1.5	60.0	0.5	<0.2	11.5	4100	0.5	1.7

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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
BLANK 1	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG012953	270	1.0	15.6	162	107	12.1	28.3	4.05
PG012955	270	1.0	18.9	118	108	13.6	29.5	4.05
PG012957	255	<0.5	18.6	106	99	10.8	23.2	3.05
PG012959	180	<0.5	14.3	78	121	20.8	41.0	5.20
PG012961	200	<0.5	15.0	84	146	23.7	46.6	5.80
PG012963	200	<0.5	17.6	102	125	22.2	44.7	5.65
PG012965	205	1.0	17.2	114	125	25.4	50.7	6.45
PG012967	250	1.0	11.5	96	128	21.1	42.6	5.15
PG012969	185	1.0	13.3	116	138	26.2	51.5	6.10
PG012971	185	<0.5	17.8	96	125	28.8	57.9	7.00
PG012973	260	<0.5	14.7	78	144	19.1	39.3	5.05
Std Nominal	200	22.0	26.0	264				
Determined	195	22.0	26.8	264	44	16.6	46.3	6.60
PG012975	190	<0.5	16.2	108	123	25.3	48.5	5.95
PG012977	225	<0.5	16.4	98	129	22.7	46.7	5.90
PG012979	260	<0.5	16.4	96	126	22.5	45.4	5.65
PG012979 Rpt	245	<0.5	15.4	90	123	21.3	43.2	5.55
PG012981	120	<0.5	12.1	72	88	20.0	38.3	4.70
PG012983	205	<0.5	20.8	124	135	26.1	52.4	6.20
PG012985	170	1.0	16.4	104	105	21.6	43.1	5.45
PG012987	205	<0.5	15.5	120	131	23.8	47.7	6.05
PG012989	210	1.0	18.3	124	127	19.2	38.7	4.85
PG012991	190	1.0	15.3	98	139	23.4	46.5	5.85
PG012993	200	<0.5	16.5	106	131	26.2	52.8	6.60
PG012995	190	<0.5	15.6	148	149	20.7	42.1	5.40
PG012997	195	<0.5	16.9	94	132	21.1	42.5	5.35
PG012999	225	<0.5	17.9	110	233	29.4	61.0	7.50
PG013001	225	<0.5	19.3	82	148	30.0	61.8	7.65
PG013003	235	<0.5	16.0	98	151	21.5	45.4	5.50
PG013005	225	<0.5	14.4	98	143	19.6	41.8	5.30
PG013007	200	<0.5	18.8	96	154	23.3	48.6	6.20
PG013009	200	1.0	18.1	96	127	21.3	44.1	5.60
PG013011	215	<0.5	26.0	68	122	38.2	77.5	9.45
PG013013	160	<0.5	26.0	70	154	22.6	48.5	6.20
PG013015	215	<0.5	12.7	126	117	18.3	36.2	4.65
PG013017	210	<0.5	14.7	108	126	26.2	48.6	6.40
PG013017 Rpt	220	<0.5	14.4	108	127	25.3	48.5	6.20
PG013019	210	<0.5	13.1	98	113	24.2	46.4	5.95
Std Nominal	115		16.0	5190				
Determined	120	2.0	16.1	5100	89	10.7	22.1	2.85



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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
PG013021	215	<0.5	14.4	96	116	22.5	44.4	5.75
PG013023	210	<0.5	15.7	104	116	24.4	47.9	6.05
PG013025	195	<0.5	17.8	98	101	22.4	43.8	5.60
PG013027	200	<0.5	15.7	106	114	23.3	44.9	5.75
PG013029	205	<0.5	17.6	106	113	24.0	46.3	5.80
PG013031	205	<0.5	17.4	104	115	20.7	40.5	5.25
PG013033	215	<0.5	21.1	106	125	23.4	45.3	5.95
PG013035	200	<0.5	15.6	112	119	22.7	43.5	5.50
PG013037	195	<0.5	14.3	108	107	19.7	38.6	4.90
PG013039	200	1.0	15.8	102	116	25.9	49.2	6.50
PG013041	185	1.0	17.1	106	125	26.0	48.9	6.55
BLANK 2	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG013043	205	2.5	18.1	126	132	25.6	47.8	6.30
PG013045	200	1.0	19.1	140	130	35.6	65.5	8.55
PG013047	180	1.0	21.2	132	125	31.5	59.2	7.75
PG013049	190	1.0	19.7	686	135	24.7	45.5	6.05
PG013051	220	3.5	22.5	150	176	42.1	78.1	10.4
PG013053	195	1.0	15.7	146	127	25.5	47.3	6.30
PG013055	195	1.0	15.4	144	127	30.1	54.8	7.25
PG013057	200	1.0	17.4	120	134	29.1	53.5	7.10
PG013059	185	2.0	18.5	72	116	35.1	61.3	7.95
PG013061	180	1.0	13.6	114	124	23.8	43.7	5.85
PG013063	175	1.0	14.4	144	126	27.7	50.5	6.70
Std Nominal	20		10.1	14		20.3	44.5	5.20
Determined	25	<0.5	9.7	12	45	19.3	42.9	5.20
PG013065	205	1.0	15.6	304	127	26.5	48.5	6.50
PG013067	145	1.0	16.6	150	113	38.8	72.1	9.10
PG013069	170	1.0	20.3	132	123	30.6	55.0	7.25
Std Nominal	135	3.5	21.0	120	82	28.0	54.0	7.20
Determined	135	3.5	21.2	114	78	28.7	54.3	7.35
PG013071	180	1.0	16.4	134	112	25.8	47.7	6.45
PG013073	185	1.0	16.7	124	130	30.4	58.1	7.75
PG013075	145	1.0	15.2	114	108	39.7	72.2	9.20
PG013075 Rpt	145	1.0	16.1	114	112	40.5	72.8	9.35
PG013077	180	1.0	14.2	88	116	23.5	44.7	5.95
PG013079	195	1.0	12.0	86	118	22.1	40.5	5.40
PG013081	220	1.0	11.4	132	121	14.3	27.0	3.65
PG013083	195	1.0	12.2	94	116	18.1	33.6	4.75
PG013083 Rpt	195	1.0	12.9	98	118	19.1	35.8	4.95
PG013085	145	<0.5	15.8	90	96	22.4	42.4	5.45
PG013087	165	1.0	20.2	112	111	27.6	54.7	6.95



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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
PG013089	185	<0.5	14.8	106	114	23.8	43.5	5.70
PG013091	150	<0.5	15.6	106	99	19.7	36.3	4.75
PG013093	180	<0.5	14.9	106	108	21.7	42.3	5.60
PG013095	160	<0.5	18.1	112	100	29.1	56.8	7.50
PG013097	175	1.0	12.3	112	104	20.5	38.5	4.90
PG013099	165	1.0	14.9	114	106	21.1	39.4	5.30
PG013101	165	1.0	12.6	96	93	21.2	38.8	5.00
PG013103	195	1.0	12.8	118	115	24.0	46.7	5.95
PG013105	155	1.0	15.9	80	92	18.4	34.7	4.40
PG013107	195	1.0	15.2	96	118	24.6	46.2	5.85
PG013109	130	3.0	10.6	68	108	19.1	35.5	4.40
PG013111	75	2.0	7.6	46	120	21.7	38.5	4.35
PG013113	60	1.0	11.0	40	105	23.0	40.2	4.70
PG013115	70	1.5	8.2	46	113	21.0	37.3	4.20
PG013117	70	1.0	8.9	44	118	25.0	43.9	4.95
PG013119	70	<0.5	8.4	50	112	22.2	38.9	4.50
PG013121	75	1.0	9.3	58	128	24.3	42.9	4.90
PG013123	75	1.0	9.3	58	127	24.2	42.3	4.85
PG013125	70	1.0	8.9	52	116	21.2	37.5	4.35
PG013127	175	2.5	16.2	116	121	29.8	53.5	7.05
PG013129	180	1.0	20.4	102	146	30.0	55.5	7.50
PG013131	195	1.0	29.7	130	166	39.4	77.3	10.1
BLANK 3	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG013133	190	1.0	27.3	124	170	32.7	66.3	8.85
PG013135	180	1.0	17.4	90	114	25.2	45.0	6.00
PG013137	180	1.0	24.9	100	120	27.4	52.2	6.80
PG013139	155	1.0	15.4	110	131	26.9	49.0	6.55
PG013141	170	1.0	19.4	116	126	29.8	54.7	7.25
PG013143	185	1.0	18.1	90	123	33.0	58.1	7.70
PG013145	230	1.0	21.2	96	142	28.6	51.0	6.85
PG013147	185	1.0	20.3	102	141	38.9	71.3	9.10
Std Nominal	120	3.5	24.6	88	77	33.0	68.0	7.90
Determined	130	4.0	24.6	84	78	32.0	69.3	7.70
PG013149	150	<0.5	19.6	940	117	30.9	56.0	7.40
PG013151	160	1.0	18.4	148	118	26.7	48.6	6.55
PG013153	200	<0.5	23.3	146	126	33.3	59.6	7.75
PG013155	200	1.0	14.6	356	126	20.0	39.2	5.10
PG013157	145	1.0	35.7	108	96	33.9	56.7	7.65
PG013159	160	1.0	19.0	106	135	38.8	68.9	8.75
PG013161	170	1.0	13.5	96	116	25.4	45.7	6.10
PG013163	165	1.0	16.5	106	124	34.2	62.2	8.30





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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
PG013165	200	1.0	21.6	108	131	31.7	57.2	7.40
PG013167	170	<0.5	16.3	122	181	28.4	53.3	6.30
PG013169	160	1.0	17.6	124	182	28.1	52.3	6.20
PG013169 Rpt	165	1.0	17.0	124	179	28.5	53.6	6.35
PG013171	175	1.0	20.1	134	185	33.3	64.9	7.60
PG013173	160	1.0	19.1	132	194	30.4	56.1	6.75
PG013175	160	1.0	15.5	120	175	26.1	49.0	5.85
PG013177	170	<0.5	18.7	100	163	25.5	48.0	5.80
PG013179	285	<0.5	19.7	130	139	28.0	53.8	6.65
PG013181	180	<0.5	21.2	122	168	28.3	53.3	6.45
PG013183	265	<0.5	22.9	124	158	30.0	56.8	7.05
PG013185	220	<0.5	18.4	106	168	27.4	51.4	6.35
PG013187	145	<0.5	17.0	128	194	28.7	52.3	6.35
PG013189	125	<0.5	21.5	112	152	27.0	50.2	6.00
PG013191	185	1.0	14.8	120	165	26.3	48.0	5.70
PG013193	155	<0.5	16.3	104	174	25.9	47.7	5.75
PG013195	150	<0.5	15.3	98	194	26.2	48.6	5.85
PG013195 Rpt	145	<0.5	16.6	104	204	27.6	51.1	6.10
PG013197	225	<0.5	21.2	138	139	29.4	54.2	6.65
PG013199	175	1.0	15.9	100	138	28.4	51.9	6.40
PG013201	150	<0.5	15.6	120	185	28.5	51.4	6.25
PG013203	150	<0.5	15.6	78	151	20.8	38.0	4.65
PG013205	155	<0.5	18.6	142	200	31.2	57.3	6.90
Std Nominal	200	22.0	26.0	264				
Determined	200	22.0	27.2	264	45	16.1	43.7	6.10
PG013207	230	<0.5	19.1	124	130	29.5	55.6	7.05
PG013209	205	<0.5	17.6	122	128	30.6	56.0	7.05
PG013211	215	<0.5	21.9	112	128	28.1	52.3	6.60
PG013213	140	<0.5	16.3	80	158	20.4	37.1	4.50
PG013215	265	<0.5	19.1	102	118	23.9	46.1	5.80

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Reference: aa041564.b Order Number: E0839 Page 25 of 33

Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
BLANK 1	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG012953	16.5	3.95	1.30	4.0	0.62	3.55	0.80	2.25
PG012955	17.1	4.10	1.35	4.4	0.80	4.05	0.84	2.50
PG012957	13.0	3.10	0.95	4.4	0.42	2.85	0.54	1.90
PG012959	19.6	4.40	1.30	4.2	0.60	3.35	0.68	1.85
PG012961	21.8	4.60	1.40	5.0	0.62	3.60	0.70	2.40
PG012963	21.5	4.70	1.35	4.8	0.66	3.90	0.72	2.05
PG012965	25.1	5.65	1.65	6.0	0.82	4.40	0.86	2.45
PG012967	19.7	4.20	1.10	3.8	0.48	2.80	0.52	1.55
PG012969	23.5	4.90	1.40	4.6	0.56	3.05	0.56	1.70
PG012971	26.2	5.40	1.70	5.4	0.72	3.95	0.82	2.20
PG012973	19.7	4.45	1.15	4.4	0.62	3.60	0.70	2.20
Std Nominal								
Determined	27.3	6.45	2.20	7.2	1.06	6.35	1.18	3.45
PG012975	21.8	4.60	1.65	4.8	0.62	3.85	0.68	1.95
PG012977	22.3	5.15	1.35	4.6	0.66	3.85	0.82	2.15
PG012979	21.2	4.55	1.30	4.6	0.68	4.05	0.76	2.30
PG012979 Rpt	21.6	4.65	1.30	4.8	0.70	4.10	0.74	2.20
PG012981	17.5	3.85	1.25	3.8	0.50	3.00	0.54	1.50
PG012983	24.3	5.80	1.70	5.4	0.80	4.20	0.90	2.30
PG012985	21.5	4.85	1.70	5.0	0.70	3.95	0.74	2.15
PG012987	23.6	5.20	2.05	5.0	0.70	3.95	0.72	2.10
PG012989	19.4	4.30	1.20	4.6	0.62	3.75	0.68	2.10
PG012991	22.5	4.90	1.45	4.8	0.66	3.85	0.90	2.10
PG012993	25.3	5.65	1.80	5.4	0.72	4.10	0.76	2.15
PG012995	21.0	4.85	1.60	5.6	0.80	3.90	0.74	2.50
PG012997	20.7	4.70	1.45	4.8	0.68	4.80	0.78	2.15
PG012999	28.4	5.95	1.85	6.0	0.80	4.65	0.84	2.45
PG013001	29.4	6.35	1.95	6.2	0.84	4.80	0.88	2.50
PG013003	22.0	4.80	1.15	4.8	0.64	4.00	0.76	2.15
PG013005	20.7	4.60	1.15	4.4	0.66	3.75	0.74	2.25
PG013007	24.8	5.70	1.60	6.0	0.82	5.10	0.90	2.70
PG013009	22.2	5.05	1.60	5.0	0.68	4.30	0.76	2.05
PG013011	38.2	8.50	2.00	8.2	1.00	5.80	1.24	3.30
PG013013	25.3	6.10	1.40	6.2	0.90	5.30	1.10	3.65
PG013015	17.5	3.80	1.10	3.6	0.52	3.20	0.62	1.85
PG013017	23.5	4.85	1.40	4.6	0.62	3.60	0.58	1.85
PG013017 Rpt	23.0	4.85	1.35	4.4	0.60	3.50	0.60	1.95
PG013019	22.3	4.60	1.35	4.2	0.60	3.85	0.72	1.85
Std Nominal								
Determined	12.2	3.15	1.20	3.6	0.56	3.60	0.68	2.00



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
PG013021	21.9	5.00	1.75	4.6	0.66	3.80	0.68	2.00
PG013023	22.5	4.90	1.20	4.4	0.68	3.75	0.76	2.10
PG013025	21.3	4.60	1.25	4.6	0.68	4.15	0.84	2.70
PG013027	21.4	4.55	1.30	4.4	0.62	3.80	0.72	2.10
PG013029	22.9	5.00	1.40	5.0	0.66	3.80	0.82	2.05
PG013031	20.1	4.50	1.35	4.6	0.72	4.30	0.78	2.30
PG013033	23.2	5.70	1.80	6.2	0.88	5.25	0.96	2.65
PG013035	20.7	4.10	1.25	4.0	0.60	3.70	0.72	2.15
PG013037	18.7	4.05	1.20	4.0	0.60	3.95	0.66	1.95
PG013039	24.0	4.85	1.20	4.6	0.66	3.90	0.68	2.10
PG013041	24.5	4.95	1.25	5.0	0.64	4.20	0.70	2.20
BLANK 2	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG013043	23.5	4.90	1.45	5.0	0.70	4.00	0.74	2.20
PG013045	31.7	6.45	1.25	6.2	0.84	4.80	0.84	2.40
PG013047	28.9	5.95	1.60	5.8	0.82	5.30	0.84	2.85
PG013049	23.1	4.60	0.80	5.0	0.60	3.40	0.66	2.00
PG013051	38.8	7.70	1.35	7.0	0.86	4.95	1.14	3.10
PG013053	23.8	4.70	0.80	4.4	0.60	3.50	0.68	2.30
PG013055	26.5	5.00	1.00	4.4	0.60	3.35	0.66	1.95
PG013057	26.5	5.35	0.95	4.8	0.62	3.50	0.66	2.15
PG013059	29.7	5.80	1.20	5.6	0.76	4.10	0.70	2.15
PG013061	21.8	4.40	1.10	6.6	0.52	3.05	0.60	1.80
PG013063	25.2	5.10	1.15	4.6	0.58	3.20	0.66	2.05
Std Nominal	19.4	3.80		3.2	0.42		0.42	1.20
Determined	19.4	3.75	1.10	3.2	0.44	2.45	0.44	1.20
PG013065	24.5	5.05	1.10	4.8	0.60	3.60	0.68	2.00
PG013067	33.5	6.00	1.60	5.4	0.68	3.65	0.66	2.00
PG013069	27.9	6.20	1.50	6.0	0.78	4.35	0.78	2.30
Std Nominal	27.0	5.50	1.30	5.6		4.30	0.80	2.50
Determined	27.9	5.65	1.35	5.4	0.76	4.30	0.84	2.55
PG013071	24.5	5.10	1.20	4.8	0.68	3.70	0.66	2.20
PG013073	29.5	6.10	1.15	5.6	0.68	3.65	0.68	2.15
PG013075	34.5	6.60	1.80	5.6	0.68	4.00	0.66	2.00
PG013075 Rpt	34.9	6.85	1.90	5.8	0.72	3.85	0.66	2.15
PG013077	22.3	4.60	1.15	4.6	0.64	3.55	0.66	1.80
PG013079	20.1	3.90	1.15	3.6	0.48	2.65	0.76	1.75
PG013081	14.1	2.90	0.80	3.0	0.42	2.45	0.48	1.40
PG013083	17.0	3.90	1.10	3.6	0.52	2.90	0.60	1.80
PG013083 Rpt	18.3	3.80	1.10	3.8	0.54	2.75	0.58	1.80
PG013085	21.7	4.60	1.50	4.6	0.64	3.65	0.70	2.35
PG013087	27.7	6.20	1.80	7.2	0.86	4.80	0.90	2.40



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
PG013089	22.0	4.75	1.35	4.6	0.66	3.50	0.70	1.90
PG013091	18.5	4.00	1.25	4.2	0.62	3.45	0.70	2.05
PG013093	22.7	5.05	1.35	5.2	0.66	3.80	0.74	1.95
PG013095	30.1	6.35	1.70	5.6	0.76	4.20	0.74	1.95
PG013097	19.1	4.00	1.25	4.0	0.52	2.90	0.54	1.65
PG013099	21.6	5.00	1.55	4.8	0.64	3.55	0.56	1.55
PG013101	19.8	4.20	1.20	4.0	0.60	3.10	0.56	1.60
PG013103	22.8	4.60	1.30	4.6	0.56	3.25	0.58	1.75
PG013105	17.3	3.70	1.10	4.0	0.52	3.20	0.72	1.90
PG013107	23.0	4.85	1.40	4.8	0.64	3.70	0.64	1.80
PG013109	16.7	3.45	1.00	3.2	0.46	2.45	0.46	1.40
PG013111	15.4	2.75	0.90	2.4	0.30	1.65	0.28	0.90
PG013113	16.7	3.15	1.10	3.0	0.42	2.40	0.42	1.20
PG013115	15.3	2.75	0.80	2.4	0.32	1.80	0.32	0.95
PG013117	17.8	3.15	1.10	2.8	0.36	1.95	0.34	1.05
PG013119	16.1	2.80	0.90	2.6	0.32	1.85	0.32	1.05
PG013121	17.5	3.10	0.95	2.8	0.36	2.00	0.36	1.05
PG013123	17.3	3.05	0.95	2.6	0.36	2.05	0.38	1.10
PG013125	15.7	2.95	0.95	2.8	0.36	1.95	0.34	1.05
PG013127	27.2	5.40	1.60	5.4	0.66	4.50	0.66	2.15
PG013129	29.3	6.05	1.40	6.2	0.82	5.20	0.86	2.85
PG013131	40.7	8.55	1.90	9.4	1.12	6.60	1.24	3.60
BLANK 3	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG013133	36.7	7.75	1.85	7.6	0.96	5.80	1.24	3.60
PG013135	22.9	4.70	1.05	4.6	0.64	3.70	0.68	2.25
PG013137	26.7	5.90	1.30	7.0	0.86	5.15	0.88	2.65
PG013139	24.8	4.85	1.25	4.4	0.62	3.45	0.64	1.95
PG013141	28.1	5.80	1.25	5.6	0.78	4.45	0.88	2.60
PG013143	29.2	5.65	1.20	5.2	0.72	4.30	0.72	2.20
PG013145	26.6	5.50	1.25	5.6	0.78	4.65	0.90	2.65
PG013147	34.9	6.45	1.60	6.0	0.82	5.00	0.86	2.65
Std Nominal	30.6	5.95	1.40	5.4	0.80	4.85	0.92	2.60
Determined	29.6	5.85	1.35	5.6	0.78	4.80	0.90	2.55
PG013149	28.3	5.70	1.40	5.6	0.78	4.45	0.82	2.50
PG013151	25.1	5.25	1.30	5.2	0.72	4.35	0.80	2.45
PG013153	29.9	6.15	1.60	6.4	0.84	5.10	0.92	2.70
PG013155	19.3	3.85	0.85	3.8	0.50	2.95	0.62	1.95
PG013157	30.1	6.55	1.70	8.0	1.04	6.80	1.26	3.75
PG013159	33.5	6.60	1.90	6.0	0.80	4.30	0.74	2.65
PG013161	23.2	4.65	1.20	4.2	0.54	3.05	0.56	1.75
PG013163	32.4	6.20	1.55	6.2	0.66	3.80	0.68	2.15



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
PG013165	28.1	5.85	1.50	5.6	0.86	5.10	0.88	2.70
PG013167	23.6	4.80	1.45	4.6	0.64	4.00	0.66	1.95
PG013169	23.4	4.75	1.45	4.8	0.66	3.80	0.66	1.95
PG013169 Rpt	23.9	4.90	1.45	5.0	0.66	3.90	0.68	1.95
PG013171	28.9	5.95	1.65	6.0	0.82	4.75	0.84	2.50
PG013173	25.3	5.25	1.60	5.4	0.72	4.20	0.74	2.10
PG013175	21.7	4.25	1.20	4.4	0.58	3.60	0.66	1.90
PG013177	21.2	4.30	1.20	4.6	0.64	3.85	0.72	2.15
PG013179	25.2	5.05	1.30	5.2	0.76	4.55	0.84	2.60
PG013181	24.6	5.10	1.30	5.2	0.76	4.60	0.86	2.60
PG013183	26.5	5.40	1.35	5.6	0.84	5.10	0.94	2.80
PG013185	24.2	4.85	1.30	4.8	0.70	4.15	0.78	2.35
PG013187	23.5	4.65	1.40	4.6	0.62	3.50	0.64	1.90
PG013189	23.0	4.75	1.25	5.0	0.90	4.30	0.84	2.40
PG013191	21.3	4.20	1.25	4.2	0.58	3.40	0.60	1.80
PG013193	21.7	4.45	1.30	4.4	0.62	3.65	0.70	1.95
PG013195	21.8	4.45	1.35	4.4	0.56	3.75	0.62	2.15
PG013195 Rpt	23.0	4.55	1.40	4.6	0.60	3.55	0.66	1.95
PG013197	25.6	5.30	1.40	5.6	0.74	4.45	0.90	2.35
PG013199	24.4	4.90	1.40	4.8	0.62	3.65	0.66	1.90
PG013201	23.8	4.70	1.45	4.6	0.60	3.55	0.62	1.85
PG013203	17.5	3.40	1.00	3.6	0.52	3.30	0.62	1.85
PG013205	25.8	5.05	1.45	5.0	0.70	4.10	0.72	2.05
Std Nominal								
Determined	26.2	6.15	2.10	7.0	1.00	6.15	1.14	3.20
PG013207	26.5	5.45	1.40	5.4	0.76	4.50	0.86	2.60
PG013209	26.4	5.40	1.30	5.2	0.68	4.00	0.76	2.30
PG013211	25.0	5.10	1.30	5.2	0.72	4.45	0.88	2.70
PG013213	17.0	3.45	1.10	3.8	0.54	3.35	0.64	1.90
PG013215	22.5	4.80	1.10	4.8	0.74	4.50	0.84	2.40
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Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
BLANK 1	<0.05	<0.05	<0.02	201689	144
PG012953	0.40	2.15	0.40	201689	145
PG012955	0.40	2.75	0.44	201689	146
PG012957	0.30	1.80	0.32	201689	147
PG012959	0.30	1.70	0.30	201689	148
PG012961	0.35	1.90	0.36	201689	149
PG012963	0.30	2.00	0.32	201689	150
PG012965	0.35	2.00	0.36	201689	151
PG012967	0.25	1.70	0.30	201689	152
PG012969	0.25	1.65	0.26	201689	153
PG012971	0.35	2.40	0.42	201689	154
PG012973	0.35	2.00	0.36	201689	155
Std Nominal					
Determined	0.55	2.70	0.50	201689	156
PG012975	0.30	1.75	0.32	201689	157
PG012977	0.35	1.90	0.36	201689	158
PG012979	0.35	2.00	0.34	201689	159
PG012979 Rpt	0.35	2.00	0.34	201689	160
PG012981	0.25	1.40	0.22	201689	161
PG012983	0.35	2.25	0.36	201689	162
PG012985	0.35	2.40	0.36	201689	163
PG012987	0.30	1.90	0.32	201689	164
PG012989	0.30	1.85	0.32	201689	165
PG012991	0.35	1.90	0.34	201689	166
PG012993	0.35	1.90	0.36	201689	167
PG012995	0.35	2.05	0.38	201689	168
PG012997	0.35	1.95	0.34	201689	169
PG012999	0.40	2.60	0.42	201689	170
PG013001	0.40	2.25	0.40	201689	171
PG013003	0.40	2.20	0.40	201689	172
PG013005	0.35	2.15	0.38	201689	173
PG013007	0.45	2.40	0.42	201689	174
PG013009	0.30	2.15	0.34	201689	175
PG013011	0.50	3.15	0.58	201689	176
PG013013	0.60	3.55	0.68	201689	177
PG013015	0.30	1.75	0.32	201689	178
PG013017	0.35	1.90	0.36	201689	179
PG013017 Rpt	0.35	1.90	0.36	201689	180
PG013019	0.30	1.75	0.32	201689	181
Std Nominal					
Determined	0.30	1.80	0.32	201689	182



Reference: aa041564.b Order Number: E0839 Page 30 of 33

Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
PG013021	0.35	2.15	0.34	201689	183
PG013023	0.35	1.90	0.36	201689	184
PG013025	0.35	2.25	0.36	201689	185
PG013027	0.35	1.90	0.34	201689	186
PG013029	0.35	2.00	0.34	201689	187
PG013031	0.35	2.05	0.36	201689	188
PG013033	0.45	2.35	0.40	201689	189
PG013035	0.35	2.05	0.36	201689	190
PG013037	0.30	1.70	0.32	201689	191
PG013039	0.35	1.95	0.36	201689	192
PG013041	0.35	2.10	0.36	201689	193
BLANK 2	<0.05	<0.05	<0.02	201689	194
PG013043	0.45	2.35	0.44	201689	195
PG013045	0.40	2.40	0.40	201689	196
PG013047	0.40	2.30	0.40	201689	197
PG013049	0.35	2.15	0.38	201689	198
PG013051	0.60	3.10	0.58	201689	199
PG013053	0.40	2.25	0.42	201689	200
PG013055	0.35	1.95	0.40	201689	201
PG013057	0.35	2.20	0.40	201689	202
PG013059	0.35	2.05	0.34	201689	203
PG013061	0.30	2.00	0.32	201689	204
PG013063	0.35	1.90	0.36	201689	205
Std Nominal	0.15	1.05	0.16		
Determined	0.20	1.05	0.18	201689	206
PG013065	0.35	1.95	0.36	201689	207
PG013067	0.30	2.05	0.32	201689	208
PG013069	0.35	2.10	0.34	201689	209
Std Nominal	0.40	2.30			
Determined	0.40	2.25	0.38	201689	210
PG013071	0.35	2.00	0.36	201689	211
PG013073	0.35	2.15	0.36	201689	212
PG013075	0.35	1.90	0.34	201689	213
PG013075 Rpt	0.35	2.00	0.36	201689	214
PG013077	0.30	1.85	0.32	201689	215
PG013079	0.30	1.65	0.32	201689	216
PG013081	0.30	1.60	0.32	201689	217
PG013083	0.30	1.65	0.30	201689	218
PG013083 Rpt	0.30	1.65	0.32	201689	219
PG013085	0.40	2.10	0.38	201689	220
PG013087	0.35	2.25	0.36	201689	221



Reference: aa041564.b Order Number: E0839 Page 31 of 33

Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
PG013089	0.30	1.90	0.34	201689	222
PG013091	0.30	1.90	0.34	201689	223
PG013093	0.30	1.65	0.30	201689	224
PG013095	0.30	1.80	0.30	201689	225
PG013097	0.25	1.50	0.28	201689	226
PG013099	0.20	1.40	0.26	201689	227
PG013101	0.25	1.45	0.26	201689	228
PG013103	0.30	1.65	0.32	201689	229
PG013105	0.30	1.90	0.32	201689	230
PG013107	0.30	1.60	0.30	201689	231
PG013109	0.20	1.25	0.22	201689	232
PG013111	0.15	0.80	0.14	201689	233
PG013113	0.20	0.90	0.16	201689	234
PG013115	0.15	0.85	0.14	201689	235
PG013117	0.15	0.80	0.14	201689	236
PG013119	0.15	0.85	0.14	201689	237
PG013121	0.15	0.95	0.16	201689	238
PG013123	0.15	0.95	0.16	201689	239
PG013125	0.15	0.90	0.14	201689	240
PG013127	0.35	2.00	0.34	201689	241
PG013129	0.45	2.60	0.46	201689	242
PG013131	0.65	3.65	0.62	201689	243
BLANK 3	<0.05	<0.05	<0.02	201689	244
PG013133	0.55	3.45	0.64	201689	245
PG013135	0.35	2.00	0.36	201689	246
PG013137	0.40	2.70	0.44	201689	247
PG013139	0.35	1.90	0.36	201689	248
PG013141	0.40	2.25	0.44	201689	249
PG013143	0.35	2.00	0.36	201689	250
PG013145	0.40	2.40	0.42	201689	251
PG013147	0.40	2.40	0.42	201689	252
Std Nominal	0.35	2.50	0.38		
Determined	0.40	2.40	0.38	201689	253
PG013149	0.40	2.30	0.40	201689	254
PG013151	0.40	2.30	0.40	201689	255
PG013153	0.40	2.40	0.40	201689	256
PG013155	0.35	2.25	0.34	201689	257
PG013157	0.50	2.65	0.46	201689	258
PG013159	0.35	2.05	0.36	201689	259
PG013161	0.30	1.80	0.32	201689	260
PG013163	0.35	2.30	0.36	201689	261





Reference: aa041564.b Order Number: E0839 Page 32 of 33

Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
PG013165	0.45	2.45	0.44	201689	262
PG013167	0.30	1.75	0.30	201689	263
PG013169	0.30	1.75	0.30	201689	264
PG013169 Rpt	0.30	1.75	0.30	201689	265
PG013171	0.40	2.25	0.38	201689	266
PG013173	0.30	1.80	0.32	201689	267
PG013175	0.30	1.70	0.30	201689	268
PG013177	0.35	1.90	0.32	201689	269
PG013179	0.40	2.35	0.40	201689	270
PG013181	0.40	2.40	0.42	201689	271
PG013183	0.45	2.45	0.44	201689	272
PG013185	0.40	2.20	0.36	201689	273
PG013187	0.30	1.85	0.30	201689	274
PG013189	0.40	2.30	0.40	201689	275
PG013191	0.30	1.55	0.28	201689	276
PG013193	0.30	1.65	0.28	201689	277
PG013195	0.30	1.70	0.28	201689	278
PG013195 Rpt	0.30	1.70	0.30	201689	279
PG013197	0.40	2.30	0.38	201689	280
PG013199	0.30	1.85	0.32	201689	281
PG013201	0.30	1.60	0.28	201689	282
PG013203	0.30	1.75	0.30	201689	283
PG013205	0.30	1.85	0.32	201689	284
Std Nominal					
Determined	0.50	2.70	0.48	201689	285
PG013207	0.40	2.40	0.42	201689	286
PG013209	0.35	2.15	0.36	201689	287
PG013211	0.45	2.60	0.44	201689	288
PG013213	0.30	1.70	0.30	201689	289
PG013215	0.40	2.25	0.38	201689	290

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These results pertain to the samples as received at this laboratory.

Where standards are reported, the nominal value for the element is reported above the result found.

"TF" Implies data to follow for this determination

"%" Implies this result reported in %

#### Sample Storage

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The excess material (Residue) will be held after 30 days

The pulp samples (Pulp) will be held after 60 days as per instructions.

#### Sample Preparation

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No sample preparation was required on these samples.

#### Digest and Analysis:

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The sample(s) have been digested and refluxed with a mixture of Acids, including: Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a total digest for many elements however, some refractory minerals are not completely attacked.

Al,Ba,Ca,Cr,Fe,K,Li,MA\_Run,MA\_Seq,Mg,Mn,Na,Ni,P,S,Sc,Ti,V

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

Ag,As,Be,Bi,Cd,Ce,Co,Cs,Cu,Dy,Er,Eu,Ga,Gd,Hf,Ho,In,La,Lu,Mo,Nb,Nd,Pb,Pr,Rb,Re,Sb,Se,Sm,Sn,Sr,Ta,Tb,Te,Th,Tl,Tm,U,W,Y,Yb,Zn,Zr  
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.