PETRATHERM LIMITED



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ASX ANNOUNCEMENT

28 April 2023

Quarterly Activities Statement – March 2023

Highlights

- Exploration results from the Comet REE Project have delineated two significant rare earth (REE) discoveries, Meteor and Artemis.
- Meteor Prospect drilling defined a continuous, substantial, thick blanket of high-grade REE mineralisation > 1000 ppm Total Rare Earth Oxide (TREO), starting from a very shallow depth.
 Mineralisation is open laterally with significant potential for additional mineralisation discoveries.
- Petrological work at Meteor has identified layered mafic rocks below the clay weathering zone, highly enriched in REE bearing apatite.
- Drilling has confirmed the presence of the new large REE Artemis Prospect with coherent grades >1000 ppm TREO over substantial thicknesses (up to 32 metres). Artemis is located only 15km south of Meteor and covers an area of approximately 1.5 kilometres by 800 metres and is open laterally in all directions.
- Aircore drilling at Artemis and over several other high priority REE targets scheduled to commence mid-May.
- The Comet REE Project offers excellent logistics for potential future development. It is close to the major rural/mining centre of Coober Pedy and situated on pastoral lease country, with only 1 lease holder at Meteor and Artemis. The Adelaide to Darwin railway line runs through the centre of the Project and the Company has good relations with the Traditional Owners.
- The Project offers significant exploration up-side potential, with 90% of the project area not yet explored for REE mineralisation.
- 'The Pines' ELA 2023/00014 located in the world-class copper-gold 'Olympic Province' of South Australia secured, strengthening PTR's Woomera Copper-Gold Project holding.
- Woomera Copper-Gold Project gravity surveying underway over the Arcoona tenement (EL 6854) and over high-priority gravity targets on the neighbouring Woomera tenement (EL 6707).
- Gravity targets prospective for Copper-Gold mineralisation at the Woomera Project scheduled to be drill tested during the second half of the 2023.
- High-powered, electromagnetic survey (SQUID EM) underway over priority copper-gold targets on PTR's extensive Mabel Creek tenement package north of Coober Pedy.



Summary of Operations

Petratherm (ASX-PTR) has built an enviable project portfolio in South Australia, focused on rare earths (REEs) in the Northern Gawler Craton, where high-grade REE drill intersections have been uncovered, and coppergold in the World-Class Olympic Domain.

PTR reported significant REE exploration drill intercepts from both the Meteor and Artemis Prospects during the period. These prospects are part of the Comet REE Project which has favourable logistics for potential future mining development. The Project is located 80 kilometres south of the major rural and mining centre of Coober Pedy and is situated on Pastoral Lease land. The Adelaide to Darwin railway line runs through the centre of the Project offering low-cost access to infrastructure and markets.

PTR is also advancing it's significant copper-gold exploration holdings. The Company's Woomera Project is situated in the heartland of the world-class Olympic Copper-Gold Province. A new tenement ('The Pines') was acquired, expanding the project holding and a major regional gravity survey is currently underway. Drilling of initial geophysical targets for copper-gold is scheduled for the second half of the 2023 year.

Work has additionally commenced on a large, high-powered, electromagnetic survey (SQUID EM) over priority copper-gold targets on PTR's extensive Mabel Creek tenement package north of Coober Pedy, South Australia.

The Company had exploration and evaluation costs of \$224,000 relating principally to the Comet Project drilling operations during the period. Administration and corporate costs totalled \$282,000. The Company held \$3,197,000 cash at the end of the Period. In accordance with ASX Listing Rules Guidance Note 23, the aggregate number of payments to related parties of the Company and its associates disclosed under section 6.1 of the Appendix 5B totalled \$52,000 and comprised of Director's fees.

Comet Rare Earth Project

The Comet Project (EL6443, EL6633, EL6722, EL6816 & EL6818) is a large land holding of 1,915km² in the Northern Gawler Craton of South Australia (Figure 1). The Project is centred around two major clay-hosted REE Prospects discovered by Petratherm, Meteor and Artemis, as well as numerous untested REE exploration targets.

The Meteor and Artemis REE prospects both occur at very shallow depths, include high-grade blankets of mineralisation showing good lateral extent and ore thickness. Less than 10% of the project area has been explored for REE's and a systematic program of advancement of current prospects, testing of new areas and metallurgical recovery test work is ongoing.

PTR's Comet REE Project has favourable logistics for any potential future mining development (Figure 1). The Project is located 80 kilometres south of the major rural and mining centre of Coober Pedy and is situated on Pastoral Lease land. The Adelaide to Darwin railway line runs through the centre of the Project offering low-cost access to infrastructure and markets (Artemis and Meteor Prospects are located approximately 10 kilometres from the railway siding). PTR has developed a good foundation with the Traditional Owners and looks forward to fostering this relationship as the project advances.

Meteor Prospect

In February results from follow-up drilling over the central portion of the prospect defined a continuous blanket of high-grade, >1000 ppm Total Rare Earth Oxide (TREO), mineralisation starting from shallow depths (3-6 metres), and over substantial vertical thicknesses downhole (up to 38 metres). In all, 43 drill holes (91% of holes drilled) returned significant mineralised REE intercepts and results are presented in Table 1¹. As currently defined, the REE mineralisation spans an approximate 2 kilometre by 1 kilometre area and remains open in several directions (Figure 2).

¹ 15/02/2023 PTR ASX Release – Meteor Prospect – Exceptional REE Drill Intersections



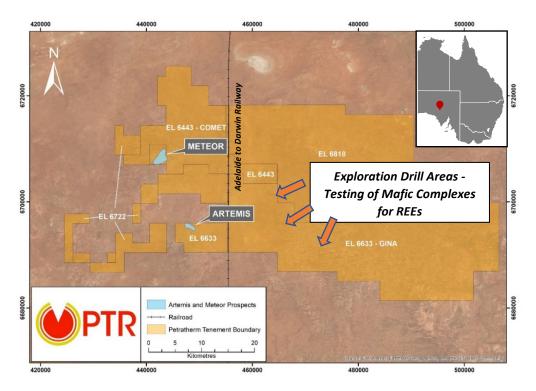


Figure 1 Comet REE Project - Artemis and Meteor Rare Earth Prospects. REE drilling resumes May 2023.

Mineralisation has proven to be highly continuous and several zones contain adjacent drill holes assaying >1000 ppm TREO over thicknesses greater than 20 metres. Three metre composite drill samples were assayed and grades up to 2,829 ppm TREO were reported. Meteor contains good concentrations of high-value magnet rare earths (MREO) averaging 26% of TREO (Table 1), with a highest MREO composite sample returning 746 ppm. Across the prospect the average MREO drill intercept grade is 242 ppm. These latest results build on the initial drilling at Meteor² and demonstrate encouraging grades and continuity over the prospect. This new drill data will be used to aid future JORC Resource estimation.

Meteor Prospect Cross-Sections

West-East and North-South cross-sections over the Meteor Prospect show an upper high-grade (1,000 to 2,800 ppm TREO) zone of enrichment within the saprolite clay (Figure 3). This is surrounded by a broader mineralised envelope ranging between 500 to 1000 ppm TREO which often extends below the high-grade pod into the saprolite zone below.

A potentially important feature shown in the West-East cross-section (Figure 3, section A1-A2) is a possible sub-vertical zone of rare earth enrichment located on the eastern edge of the currently defined mineralised area. Drill hole 22ACCR374 intersected 24m @ 1594ppm TREO from 6m to end of hole. This may be an indication of a primary rare earth zone in the basement rock below or a mineralised structure (fault), providing a possible source for the rare earths.

Recently completed petrological work at the Meteor REE Prospect has confirmed an intrusive layered mafic rock sequence occurs below the REE clay mineralisation and horizons within this complex are enriched in REE bearing apatite. Globally, layered mafic intrusions are a known significant source of rare earths (i.e. Kola Alkaline Province, Russia³).

² 28/10/2022 PTR ASX Release – Quarterly Activities/Appendix 5B Cash Flow Report

³ Zaitsev et al, (2014), Rare earth elements in phoscorites and carbonatites of the Devonian Kola Alkaline Province, Russia. *Ore Geology Reviews*, Volume 61, Pages 204-225.

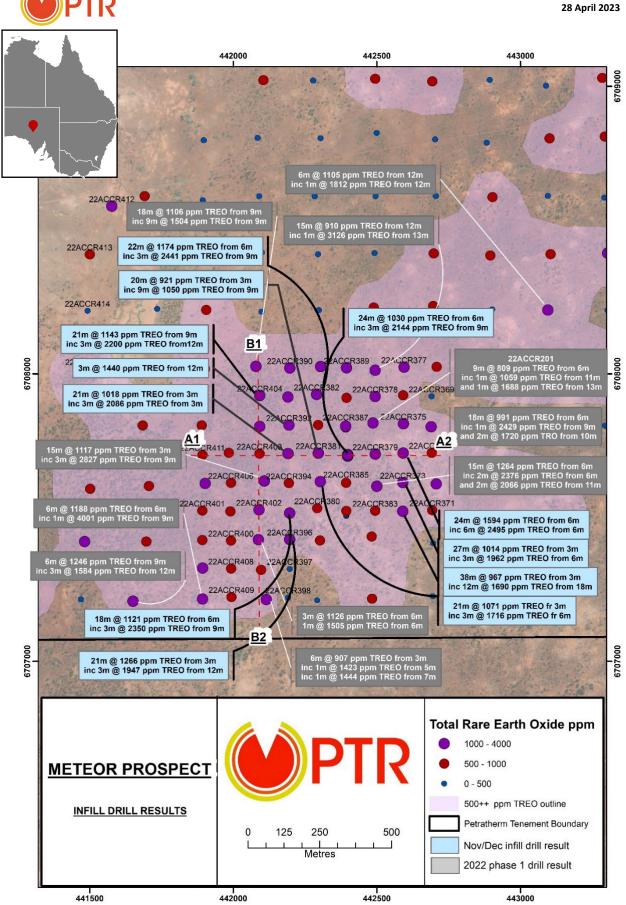
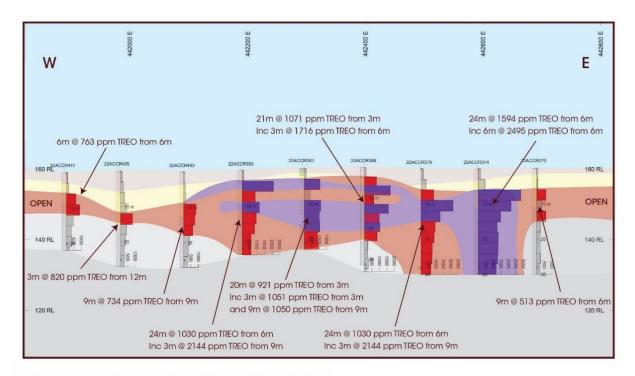


Figure 2 Meteor Prospect - Summary Drill Results.



	N	Viete	or Pros	pect -	Signific	ant R	EE Int	ercep	ts Tal	ole (>!	500 p	pm TF	REO)		
Drill Hole	From	То	Interval	TREO	Scandium	Prased	odymiu	_	Value - /mium	_	et Rare		(MREO) osium	Total	MREO
					Sc ₂ O ₃		011		203		4 O 7	-	O ₃		e/TDFO
22ACCR370	metres 6	metres 15	metres 9	<i>ррт</i> 513	<i>ррт</i> 38	ррт 24	% TREO	<i>ррт</i> 92	% TREO	2.4	% TREO	ppm 12.4	% TREO	<i>ррт</i> 131	%TREO
22ACCR371	9	12	3	600	61	30	5	135	23	2.4	0.4	12.6	2.1	180	30
inc	3 18	41 30	38 12	967 1690	39 38	54 95	6	202 345	21 20	2.0	0.2	8.5 11.3	0.9	267 454	28 27
22ACCR373	3	30	27	1014	49	60	6	221	22	2.4	0.2	10.7	1.1	294	29
inc	6 18	9 24	3 6	1962 1125	84 50	127 66	6	478 232	24 21	4.1 2.7	0.2	17.2 10.9	0.9 1.0	626 312	32 28
22ACCR374	6	30	24	1594	34	89	6	299	19	3.2	0.2	14.9	0.9	406	25
inc	6	12	6	2495	42	146	6	490	20	5.3	0.2	24.3	1.0	666	27
inc 22ACCR375	6 9	9 18	3 9	2829 922	38 36	170 49	6 5	550 173	19 19	4.7 2.7	0.2	20.7 13.4	0.7 1.5	745 238	26 26
inc	10	17	7	1289	72	74	6	260	20	3.5	0.3	16.1	1.2	354	27
22ACCR376 22ACCR377	6	15 15	9	623 833	49 28	31 45	5 5	120 161	19 19	2.6	0.4	14.3 13.8	2.3 1.7	168 223	27 27
inc	9	12	3	1186	31	63	5	227	19	4.1	0.3	20.7	1.7	315	27
22ACCR378	3	24	21	765 1057	54 73	39	5 5	143	19 17	2.6	0.3	14.0	1.8 2.4	199	26 25
inc 22ACCR379	9	15 30	6 24	1057	46	48 52	5	183 186	17	4.1 3.1	0.4	25.8 16.4	1.6	261 257	25
inc	9	12	3	2144	54	108	5	392	18	7.1	0.3	35.0	1.6	542	25
22ACCR380 22ACCR381	6 3	9 23	3 20	516 921	31 35	30 52	6	103 178	20 19	1.7 2.0	0.3	8.0 8.9	1.6	143 241	28 26
inc	3	6	3	1051	31	62	6	210	20	2.4	0.2	10.3	1.0	285	27
inc	9	18 28	9 22	1050 1174	38 51	58 66	6	202 224	19 19	2.4	0.2	10.9 11.4	1.0	273 304	26 26
inc	9	12	3	2441	92	138	6	474	19	5.9	0.2	23.0	0.9	641	26
22ACCR383	3	15	12	681	40	33	5	128	19	1.9	0.3	9.5	1.4	172	25
22ACCR384 22ACCR385	12 9	15 12	3	848 555	61 38	39 30	5 5	152 110	18 20	2.9 1.8	0.3	16.6 8.0	2.0 1.4	211 150	25 27
22ACCR386	3	24	21	1071	55	52	5	159	15	3.3	0.3	16.2	1.5	231	22
inc 22ACCR387	6 9	9 24	3 15	1716 744	61 44	92 40	5 5	384 150	22	5.3 2.4	0.3	24.1 11.5	1.4	505 204	29 27
inc	12	15	3	1423	54	83	6	325	23	4.7	0.3	19.5	1.4	432	30
22ACCR388	12	15	3	820	77	36	4	159	19	3.5	0.4	20.1	2.5	219	27
inc	9	18 12	9	926 1731	56 46	44 85	5 5	173 336	19 19	3.1 5.9	0.3	16.8 29.2	1.8	237 456	26 26
22ACCR390	9	18	9	880	54	43	5	159	18	2.0	0.2	8.6	1.0	212	24
inc 22ACCR391	9	12 18	3 9	931	54 66	54 46	4 5	190 160	16 17	2.4	0.2	9.2 12.6	0.8 1.4	256 221	21 24
inc	12	15	3	1328	92	65	5	252	19	3.5	0.3	17.8	1.3	338	25
and 22ACCR392	27 12	29 15	2	743 1440	15 61	37 65	5 5	135 257	18 18	1.2 3.5	0.2	5.2 18.4	0.7 1.3	178 344	24 24
22ACCR392 22ACCR393	3	24	21	1018	46	51	5	195	19	2.4	0.2	11.5	1.1	260	26
inc	3	6	3	2086	54	111	5	416	20	4.1	0.2	20.1	1.0	551	26
and	12 21	15 24	3	874 870	38 31	45 42	5 5	170 152	19 17	2.4 1.8	0.3	12.6 8.0	1.4 0.9	230	26 23
22ACCR395	6	24	18	1121	37	57	5	211	19	2.5	0.2	10.0	0.9	280	25
inc 22ACCR396	9	12 24	3 21	2350 1266	69 43	120 64	5 5	458 250	19 20	4.7 2.9	0.2	18.9 13.9	0.8	601 331	26 26
inc	12	15	3	1947	61	92	5	390	20	6.5	0.2	36.8	1.9	525	27
22ACCR399	3	9	6	716	31	31	4	127	18	2.7	0.4	63.7	16.1	224	31 22
22ACCR400 22ACCR401	6	9 15	3 9	519 661	69 46	16 29	3	70 119	13 18	3.5	0.7	23.5 18.7	4.5 2.8	113 170	22 26
22ACCR402	6	12	6	813	61	36	4	148	18	3.8	0.5	20.4	2.5	208	26
inc 22ACCR403	6 9	9 18	3 9	1113 734	54 28	53 37	5 5	210 130	19 18	4.7 2.0	0.4	23.0 10.1	2.1 1.4	291 179	26 24
22ACCR404	9	30	21	1143	58	62	5	230	20	3.4	0.3	15.1	1.3	310	27
inc	12	15	3	2200	84	124	6	464	21	5.9	0.3	25.2	1.1	619	28
22ACCR405 22ACCR406	12 6	15 18	3 12	709	23 33	42 38	5	157 140	19 20	2.9	0.4	12.6 9.8	1.5	215 190	26 27
22ACCR407	6	27	21	688	28	34	5	122	18	1.9	0.3	8.9	1.3	167	24
22ACCR408 22ACCR409	6 9	13 15	7 6	813 762	43 50	39 37	5	146 148	18 19	3.2	0.4	16.6 20.7	2.0	205 210	25 27
22ACCR410	6	24	18	657	33	30	5	117	18	2.0	0.3	11.1	1.7	160	24
inc	9	12	3	1242	54	53	4	213	17	4.1	0.3	26.4	2.1	297	24
22ACCR411 22ACCR412	6 9	12 18	6 9	763 688	15 41	42 38	6	148	19 21	2.7	0.3	8.6 10.1	1.1	201 193	26 28
inc	12	15	3	1000	54	58	6	223	22	2.9	0.3	13.8	1.4	298	30
22ACCR413 22ACCR415	6	9	3 6	801 591	8 38	41 24	5 4	145 100	18 17	1.8 3.2	0.2	6.3 17.8	0.8 3.0	194 145	24 25
ZZACCK415	ט	12	ט	591	38	24	4	100		3.2	0.5	1/.8	3.0	145	





Meteor - Cross Section A1 - A2

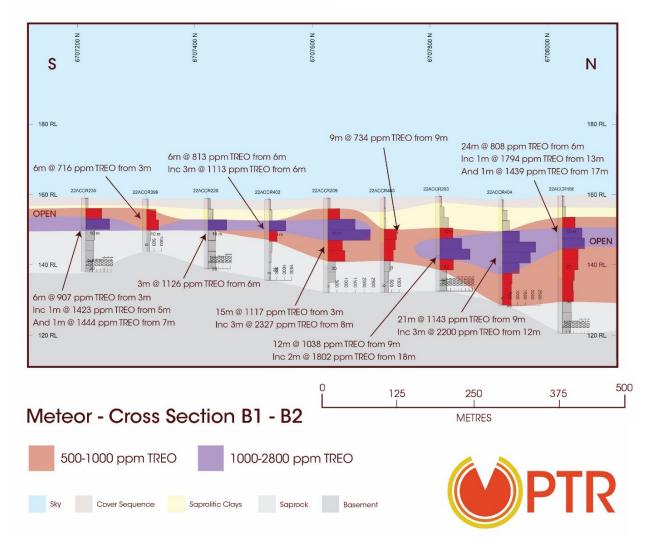


Figure 3 Meteor Prospect – West-East and North-South Cross Sections



Artemis REE Prospect

Results from drilling completed in December delineated a major rare earth (REE) occurrence named the Artemis Prospect, less than 15 kilometres southeast of Petratherm's well-defined Meteor REE Prospect⁴.

The Artemis Prospect is characterised by a high-grade blanket of mineralisation over 1,000 ppm Total Rare Earth Oxide (TREO) hosted within the clay weathering profile, extending over a 1.5 kilometre by 800 metre area. Mineralisation starts at shallow depths (typically 8 -15 metres) and high-grade drill intersections range from 12 to 32 metres in thickness (Figure 4). High-value magnet rare earth (MREO) intercepts up to 609 ppm are recorded and across the prospect the average MREO drill intercept grade is 221 ppm. The mineralised area remains open laterally in all directions (Figure 4).

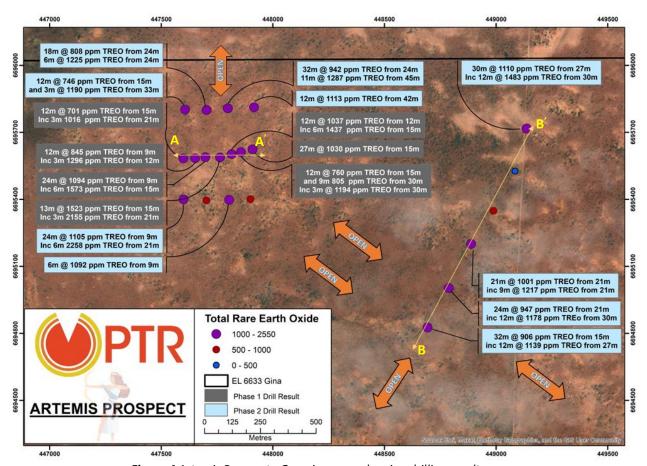


Figure 4 Artemis Prospect - Overview map showing drilling results

Artemis Results

In October 2022 Petratherm announced the results of a single air-core drilling traverse over a REE exploration target southeast of the Meteor Prospect⁵. Results of follow-up drilling, in three additional traverses along strike from the original target, confirm that high-grade REE mineralisation is laterally continuous and extensive.

In all, 20 of the 21 drill holes at the newly defined Artemis Prospect (95% of holes drilled) returned significant mineralised REE intercepts. Three metre composite drill samples were assayed and grades up to 2,542 ppm TREO were reported. These results are presented in Table 2. Two cross sections (Figure 5) over the Artemis

⁴ 24/02/2023 PTR ASX Release - Drilling Identifies Major New REE Prospect

⁵ 11/10/2022 PTR ASX Release – New Mineralised Areas Uncovered at Comet



Prospect show high-grade (1,000 to 2,500 ppm TREO) zones of enrichment surrounded by a broader mineralised envelope ranging between 500 to 1000 ppm TREO.

At the western part of the prospect area, a 300-metre-long drill traverse (section A-A') demonstrates the presence of a continuous, open-ended mineralised zone with TREO intercepts greater than 1,000 ppm over thicknesses of between 12 and 27 metres and starting from 9 to 15 metres depth below surface. Drill traverses 200 metres north and south of this traverse confirm that mineralisation is laterally continuous in these directions, and that mineralisation remains open both to the north and south as well as to the east and west.

Cross-section B-B' over the eastern part of the Artemis Prospect area delineates two zones of high-grade rareearth mineralisation, including an approximately 600-metre-long horizon which remains open to the southwest. Once again TREO intercepts here are encouragingly thick, with intercepts grading up to 1000 ppm for thicknesses of between 21 and 32 metres.

Comet REE Project - Next Steps

The Company is greatly encouraged by this latest round of results which has confirmed the Artemis REE Prospect as an important new REE occurrence, with potential for the delineation of an extensive mineralised blanket with future infill drilling. These results compliment the advanced Meteor REE Prospect where PTR has defined a substantial and continuous horizon of high-grade (>1000 ppm TREO) mineralisation starting from shallow depths (3-6 metres below surface), and over substantial vertical thicknesses.

The Comet REE Project Area (1,915 km²) is significantly under-explored with less than 10% of the Project area having undergone systematic exploration for REE's. Consequently, the next round of drilling will be exploration-focused and centred on two key activities - testing areas around the Artemis REE Prospect mineralisation (which currently remains open laterally in all directions), and secondly testing of several mafic intrusive complexes east of the Meteor REE Prospect, considered highly prospective for new REE discoveries (Figure 1).

The Comet Project area is shaping up as an emerging REE province and PTR is well positioned to be a significant player in this region. Going forward, The Company's focus is two-fold, advancing a low-cost process to recover the REEs using simple heap leach methods and continuing greenfield exploration in order to identify the best REE mineralisation within the Project area.



A	rtemi	s Pro	spect -	3 Met	re Split	Signif	icant	REE Ir	nterce	pts T	able (>500	ppm 1	REO)	
								High	Value -	- Magne	et Rare	Earths ((MREO)		
Drill Hole	From	To	Interval	TREO	Scandium	Praseo	dymium	_	ymium	•	oium		osium	Total	MREO
					Sc ₂ O ₃	Pr	011	Nd	₂ O ₃	Tb.	4 O 7	Dy	/O₃		
	metres	metres	metres	ppm	ppm	ppm	% TREO	ppm	% TREO	ppm	% TREO	ррт	% TREO	ppm	%TREO
22ACCR311	15	28	13	1523	26	80	5	283	19	2.77	0.2	13.7	0.9	379	25
inc	21	24	3	2155	25	123	6	460	21	4.42	0.2	21.2	1.0	609	28
22ACCR312	9	33	24	1094	25	62	6	222	20	2.09	0.2	10.7	1.0	297	27
inc	15	21	6	1573	30	87	6	313	20	2.78	0.2	13.3	0.8	416	26
22ACCR313	9	21	12	845	27	54	6	199	24	1.97	0.2	9.9	1.2	265	31
inc	12	15	3	1296	29	100	8	376	29	2.89	0.2	13.4	1.0	492	38
22ACCR314	15	27	12	701	36	42	6	159	23	2.15	0.3	11.5	1.6	215	31
inc	21	24	3	1016	40	64	6	254	25	3.26	0.3	17.5	1.7	339	33
22ACCR315	12	24	12	1037	26	59	6	201	19	1.83	0.2	9.7	0.9	271	26
inc	15	21	6	1437	29	90	6	301	21	2.48	0.2	12.5	0.9	406	28
22ACCR316	15	27	12	760	30	45	6	159	21	1.66	0.2	8.8	1.2	214	28
and	30	39	9	805	23	34	4	121	15	1.38	0.2	7.3	0.9	164	20
inc	30	33	3	1194	9	48	4	166	14	1.42	0.1	6.9	0.6	222	19
22ACCR317	15	42	27	1030	30	50	5	155	15	1.63	0.2	8.7	0.8	215	21
inc	24	36	12	1408	26	68	5	211	15	1.98	0.1	10.4	0.7	291	21
22ACCR331	27	57	30	1110	23	47	4	163	15	1.37	0.1	7.1	0.6	218	20
inc	30	42	12	1483	28	63	4	212	14	1.41	0.1	7.1	0.5	284	19
22ACCR333	33	36	3	512	44	24	5	90	18	1.34	0.3	7.5	1.5	123	24
and	42	53	11	586	21	24	4	89	15	1.20	0.2	6.4	1.1	121	21
22ACCR334	21	42	21	1001	30	49	5	172	17	2.21	0.2	10.3	1.0	234	23
inc	21	30	9	1217	36	64	5	226	19	2.74	0.2	12.5	1.0	305	25
22ACCR335	21	45	24	947	29	43	5	146	15	2.58	0.3	12.4	1.3	204	22
inc	30	42	12	1178	14	59	5	198	17	3.30	0.3	15.8	1.3	276	23
22ACCR336	15	47	32	906	24	42	5	136	15	2.09	0.2	9.3	1.0	189	21
inc	27	39	12	1139	22	57	5	183	16	2.66	0.2	11.6	1.0	254	22
22ACCR338	9	12	3	759	31	34	4	93	12	0.59	0.1	4.6	0.6	132	17
and	36	39	3	644	23	32	5	104	16	1.18	0.2	4.6	0.7	142	22
22ACCR339	9	15	6	1092	23	57	5	189	17	1.76	0.2	7.8	0.7	256	23
and	30	33	3	702	23	31	4	109	16	1.76	0.3	8.0	1.1	150	21
22ACCR340	12	21	9	717	28	42	6	145	20	1.76	0.2	9.6	1.3	198	28
and	30	33	3	534	23	24	4	80	15	1.76	0.3	9.2	1.7	115	22
22ACCR341	9	33	24	1105	28	61	6	191	17	2.50	0.2	13.1	1.2	268	24
inc	21	27	6	2258	27	122	5	377	17	4.41	0.2	22.1	1.0	526	23
22ACCR342	12	15	3	531	23	25	5	73	14	0.59	0.1	4.0	0.8	103	19
and	21	24	3	500	38	28	6	92	18	1.76	0.4	9.8	2.0	132	26
and	42	54	12	1113	17	54	5	160	14	1.32	0.1	6.6	0.6	222	20
22ACCR343	24	56	32	942	22	41	4	123	13	1.28	0.1	6.1	0.6	171	18
inc	45	56	11	1287	15	60	5	174	14	1.18	0.1	5.2	0.4	240	19
22ACCR344	24	42	18	808	23	37	5	120	15	2.45	0.3	13.1	1.6	173	21
inc	24	30	6	1225	23	66	5	206	17	2.35	0.2	10.6	0.9	285	23
22ACCR345	15	27	12	746	29	28	4	92	12	1.03	0.1	5.5	0.7	126	17
and	33	36	3	1190	15	58	5	185	16	1.76	0.1	8.6	0.7	253	21

Table 2 Artemis Prospect - Table of Significant Drill Results. (Refer to PTR ASX release 24/02/2023 for further details and JORC Table 1)



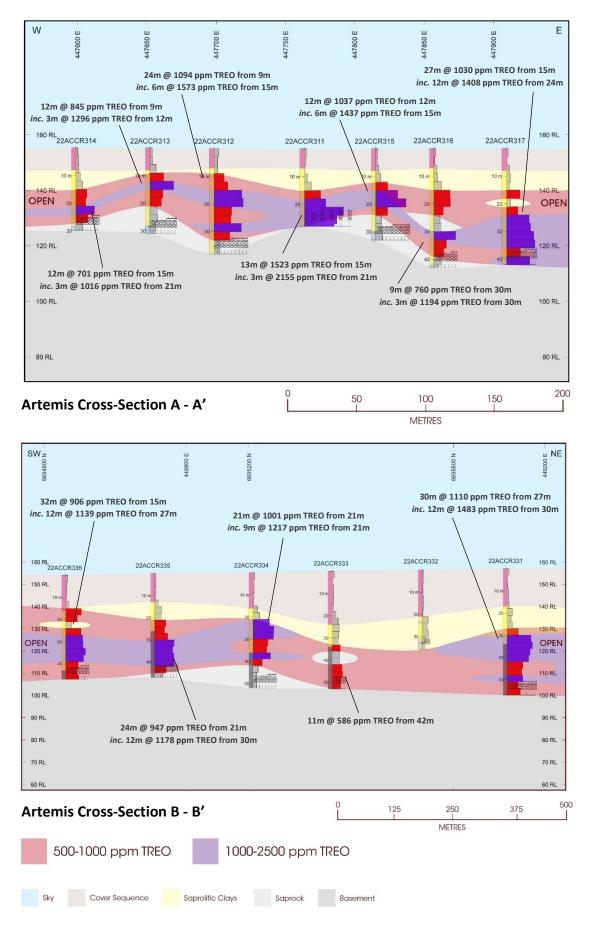


Figure 5 Artemis Prospect – Cross-Sections



Woomera Copper-Gold Project

The Woomera Project (EL 6707, EL 6854 & ELA2023/00014) comprises a 683 km² area in the world-class 'Olympic Copper-Gold Province' of South Australia. The district is highly endowed with copper-gold discoveries including OZ Minerals' newly operating world-class Carrapateena deposit, BHP's Oak Dam West and Coda Mineral's Elizabeth Creek and recent Emmie Bluff Deeps discoveries (Figure 6). Significant historical copper drill intersections at the Winjabbie IOCG Prospect along the northern edge of the project area (Figure 6) additionally highlight the areas copper-gold fertility⁶.

In March 2023 PTR secured an additional adjacent tenement area, 'The Pines' (ELA 2023/00014), and just after the reporting period a tenement-wide gravity survey commenced over the Arcoona tenement (EL 6854)⁷. The gravity survey will also include selective infill gravity surveying over high-priority gravity targets on the neighbouring Woomera tenement (EL 6707) to aid final target modelling and ranking of targets (Figure 6).

The Arcoona tenement is one of the last exploration holdings in this region yet to be systematically gravity surveyed and as a consequence the 264km² of prime exploration land has also not been tested by a single exploration drill hole. PTR awaits the survey results and it is anticipated that drill testing of targets will take place during the second half of 2023.

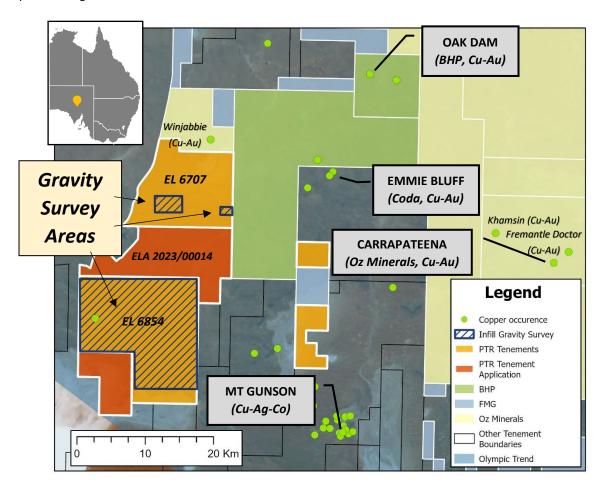


Figure 6 PTR's Woomera Project, Gravity Survey Areas, Major IOCG Occurrences and Copper-Gold Prospects

 $^{^{6}}$ PTR ASX release 04/04/2022 – Woomera Tenement Grant – IOCG Drill Targets Defined

⁷ PTR ASX Release 20/04/2023 – Gravity Survey Underway at Woomera Copper-Gold Project





Photo Arcoona Gravity Surveying

Mabel Creek Copper-Gold Project

In early April 2023, just after the reporting period, work commenced on a large, high-powered, electromagnetic survey (SQUID EM) over priority copper-gold targets on PTR's extensive Mabel Creek tenement package north of Coober Pedy, South Australia. As announced previously, PTR was awarded a SA Government Accelerated Development Initiative (ADI) Grant to undertake specialised SQUID electromagnetic surveys over priority exploration targets⁸. The SQUID EM technology has superior detection and resolution capability, coupled with a powerful transmitter for deeper detection.

Electromagnetic surveys can detect conductive material such as copper sulphides and are thus an excellent tool for directly detecting certain styles of copper mineralisation, most notably ISCG (Iron-Sulphide Copper-Gold) style copper mineralisation such as that found at the high-grade Eloise and Jericho deposits in northwest Queensland.

Previous drilling by PTR shows encouraging potential for copper-gold mineralisation at Mabel Creek. Drill hole MCDA5-04 (Area 5 Prospect) intersected significant thicknesses of pervasive red rock hydrothermal alteration showing enrichment of light rare-earths in a fractured granite host⁹ (PTR ASX release 27/07/21). The Mabel Creek Ridge is part of the broader Olympic Copper-Gold Trend which hosts numerous world-class deposits (Figure 7)

⁸ 16/06/2022 PTR ASX Release – PTR Awarded Two SA Government ADI Grants

⁹ 27/07/2021 PTR ASX Release – Mabel Creek Project – Results of Drilling



PTR has undertaken a region-wide structural and geological review of the Mabel Creek project, which has identified key structures having the potential to be significant pathways for mineralising fluids. This work has generated multiple priority targets to be tested by the SQUID EM surveys over the next three to four weeks.

The Mabel Creek project is a significant land holding of 3,322 km² 100% owned by Petratherm (Figure 7). This includes a new Exploration Licence Application (ELA2023/00015) applied for during the period, following an extensive geological and structural review. The northern Gawler Craton is extremely prospective for world class copper-gold deposits and Mabel Creek is one of Petratherm's key assets in a growing portfolio of exciting copper projects.

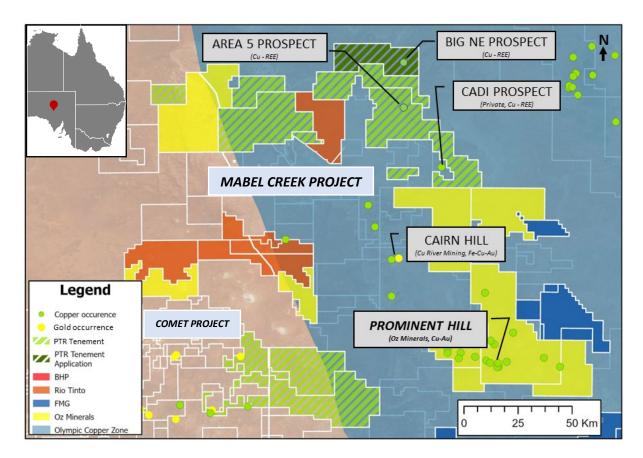


Figure 7 PTR's Mabel Creek Project, Major Company Tenement Holdings, Copper, and Gold Occurrences

For further information, please contact:

Peter Reid, Chief Executive Officer, Tel: (08) 8133 5000

This ASX announcement has been approved by Petratherm's Board of Directors and authorised for release by Petratherm's Chairman Derek Carter

Competent Persons Statement: The information in this report that relates to Exploration Targets and Exploration Results is based on information compiled by Mr Peter Reid, who is a Competent Person, and a Member of the Australian Institute of Geoscientists. Mr Reid is not aware of any new information or data that materially affects the historical exploration results included in this report. Mr Reid is an employee of Petratherm Ltd. Mr Reid has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Reid consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

•	
PETRATHERM LIMITED	
ABN	Quarter ended ("current quarter")
17 106 806 884	31 March 2023

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers		
1.2	Payments for		
	(a) exploration & evaluation	(9)	(21)
	(b) development		
	(c) production		
	(d) staff costs		
	(e) administration and corporate costs	(351)	(614)
1.3	Dividends received (see note 3)		
1.4	Interest received	39	49
1.5	Interest and other costs of finance paid		
1.6	Income taxes paid		
1.7	Government grants and tax incentives		148
1.8	Other (provide details if material)		
1.9	Net cash from / (used in) operating activities	(321)	(438)

2.	Ca	sh flows from investing activities		
2.1	Pay	yments to acquire or for:		
	(a)	entities		
	(b)	tenements		
	(c)	property, plant and equipment	(2)	(9)
	(d)	exploration & evaluation	(224)	(1,031)
	(e)	investments		
	(f)	other non-current assets		

ASX Listing Rules Appendix 5B (17/07/20)

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities		
	(b) tenements		
	(c) property, plant and equipment		
	(d) investments		
	(e) other non-current assets		
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (provide details if material)		
2.6	Net cash from / (used in) investing activities	(226)	(1,040)

3.	Cash flows from financing activities	
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	
3.2	Proceeds from issue of convertible debt securities	
3.3	Proceeds from exercise of options	
3.4	Transaction costs related to issues of equity securities or convertible debt securities	(17)
3.5	Proceeds from borrowings	
3.6	Repayment of borrowings	
3.7	Transaction costs related to loans and borrowings	
3.8	Dividends paid	
3.9	Other (provide details if material)	
3.10	Net cash from / (used in) financing activities	(17)

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	3,744	4,692
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(321)	(438)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(226)	(1,040)
4.4	Net cash from / (used in) financing activities (item 3.10 above)		(17)

Page 2

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (9 months) \$A'000
4.5	Effect of movement in exchange rates on cash held		
4.6	Cash and cash equivalents at end of period	3,197	3,197

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	397	944
5.2	Call deposits	2,800	2,800
5.3	Bank overdrafts		
5.4	Other (provide details)		
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	3,197	3,744

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	52
6.2	Aggregate amount of payments to related parties and their associates included in item 2	
Motori	fony amounts are shown in items 6.1 or 6.2. your quarterly activity report must include	do a description of and an

Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.

7.	Financing facilities Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000				
7.1	Loan facilities						
7.2	Credit standby arrangements						
7.3	Other (please specify)						
7.4	Total financing facilities						
7.5	Unused financing facilities available at qu	arter end					
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.						

8.	Estimated cash available for future operating activities	\$A'000			
8.1	Net cash from / (used in) operating activities (item 1.9)	(321)			
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))	(224)			
8.3	Total relevant outgoings (item 8.1 + item 8.2)	(545)			
8.4	Cash and cash equivalents at quarter end (item 4.6)	3,197			
8.5	Unused finance facilities available at quarter end (item 7.5)				
8.6	Total available funding (item 8.4 + item 8.5)	3,197			
8.7	Estimated quarters of funding available (item 8.6 divided by item 8.3)	6			
	Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.				

8.8 If item 8.7 is less than 2 quarters, please provide answers to the following questions:

8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?

Answer:		

8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?

Answer:			

8.8.3	Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?
Answe	r:
Note: wh	nere item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 28 April 2023

Authorised by:

Katelyn Adams, Company Secretary

Notes

- This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
- If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
- 3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
- 4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
- 5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.

Changes in Interests in Mining Tenements For Quarter Ended 31 March 2023

		Tenement Reference	Nature of Interest	Interest at beginning of Quarter	Interest at end of Quarter
10.1	Interests in mining tenements relinquished, reduced or lapsed		No changes	N/A	N/A
10.2	Interests in mining tenements acquired or increased		No changes	N/A	N/A

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ASX Additional Information

List of mining tenements as at 31 March 2023

Granted Tenement Licences:

Tenement No.	Project Area	Area (km2)	Registered holder	Company Interest
EL6332	Mt Willoughby	838	Petratherm Limited	100%
EL6333	Mt Barry	641	Petratherm Limited	100%
EL6404	Kanku	456	Petratherm Limited	100%
EL6405	Mt Euee	917	Petratherm Limited	100%
EL6443	Comet	256	Petratherm Limited	100%
EL6633	Gina	934	Petratherm Limited	100%
EL6722	West Comet	110	Petratherm Limited	100%
EL6707	Woomera	209	Petratherm Limited	100%
EL6815	Muckanippie	80	Petratherm Limited	100%
EL6818	Perfection Well	585	Petratherm Limited	100%
EL6816	Commonwealth Hill	30	Petratherm Limited	100%
EL6855	Mulgathing	178	Petratherm Limited	100%
EL6854	Arcoona	264	Petratherm Limited	100%

Tenement Licence Applications:

Licence No.	Project Area	Area (km2)	Applicant	Company Interest
ELA 2023/00014	The Pines	195	Petratherm Limited	100%
ELA 2023/00015	Dean Bore	470	Petratherm Limited	100%