



ASX Code **NUP**

Capital Details

Shares on issue 236,050,855
Share Price \$0.080
Market cap \$18.9 mil

Directors

Executive Chairman

Mick Muir

Non Executive Directors

Ian Kowalick
Robert Owen
John Jackson

Company Secretary

Anthony Schildkraut

Projects

Westmoreland: Eva/Cobar II
and Lagoon Creek -

Uranium/Gold

Lucy Creek/Arganara -

Phosphate

Aileron - Uranium

NuPower Resources Limited is a Northern Territory based exploration company. Our vision is to become a successful exploration and mining company with superior cashflows.

Quarterly Activities Report December 2009

Highlights

- **Gold and Uranium grades at Eva Project exceed expectation**
- **Completion of Lucy Creek Phosphate drilling campaign**

The December 2009 quarter was the busiest since the company listed on the ASX as the Company refocused its attention from its early stage exploration projects in the Aileron region of Central Australia to its more advanced opportunities at Eva and Lucy Creek. Drilling campaigns were completed over the course of the quarter at both properties from which the first half of the assay results announced from the Eva campaign proved very exciting. The company is eagerly awaiting the remaining results from the Eva drilling and the results from the Lucy creek Phosphate project.

Westmoreland Project Areas – Eva/Cobar II/Lagoon Creek

Eva - MLN 585

The Eva drilling program was the major focus of the company over the December quarter. A total of 50 vertical and inclined drill holes were completed totalling 2,854 meters. This drilling was a combination of percussion and core drill holes.. The assay results received from the first 24 holes reported significant grades of both Uranium and Gold, with the best of these being drill hole **EV023** reporting:-

**23 meters grading 0.41% U₃O₈ (9.0lbs per tonne) and 5.17 gpt Au
(Including 4 meters at 1.27% U₃O₈ (28.0lbs per tonne) and 18.3 gpt Au)**

Mineralisation intersected to date extends over a strike length of 100 metres and down dip for up to 100 metres at vertical depths of between 0 and 65 metres below surface. The uranium and gold mineralisation is related to steeply dipping shear structures trending ENE in the vicinity of the historical Eva workings, hosted by sericite altered microgranite with occasional narrow smokey quartz veins that also occupy the shear structures.

A full list of the previously announced Eva assay results is attached. The remaining results from the Eva drilling are expected shortly.



Figure 1: Rehabilitation work concluding the resource drilling at Eva

NuPower Resources is continuing to assess these results and further geological interpretation will be completed as soon as the second half of the drilling results are received and announced. These are expected in early 2010 following which geological modelling and resource estimation will be carried out.

EL 23573 – Lagoon Creek

Over the quarter NuPower reviewed the results of the Lagoon Creek exploration conducted under the Farm In and Joint Venture agreement with Lagoon Creek Resources Pty Limited. Initial meetings to finalise the joint venture and plan activities for the 2010 field season were held. NuPower anticipates that

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regional geological implications resulting from the results at Eva may be applicable to the Lagoon Creek tenement and will work within the Joint Venture partner to identify follow up targets for continued exploration.

MLN 578 – Cobar II

The company held initial discussions with representatives of the traditional owners to discuss the company's intention to conduct exploration on the lease. Negotiations will be ongoing in 2010 and NuPower will continue to consider its priorities for Cobar II in the 2010 field season.

EL 24716 Lucy Creek – Phosphate/Uranium

Over the quarter, NuPower completed 29 vertical and inclined percussion drill holes totalling 1359 meters of drilling. The work was supervised by a geological contractor and the drilling was completed smoothly. NuPower is eagerly waiting on receipt of assay results, due early in the first quarter of 2010.

Based on sparse, broad-spaced historical drilling Lucy Creek has a conceptual target resource of 43 million tonnes grading 21% P₂O₅ utilising a cut off grade of 15% P₂O₅. This drilling was carried out to infill amongst the historical drill holes to improve the geological understanding of phosphate distribution and grade. It is hoped that this will provide further confidence of the potential for a viable near-surface Phosphate deposit enabling the Company to review its options for advancing this project.



Figure 2: Lucy Creek lease area

Level 3, 80 Clarence St, Sydney, NSW 2000
STREET ADDRESS

PO Box R1753, Royal Exchange, NSW 1225
MAIL ADDRESS

+61 2 9262 4235

TELEPHONE

+ 61 2 9262 6301

FACSIMILE

info@nupowerresources.com.au
EMAIL

120 787 859
ACN

Aileron and Warrabri - Uranium

Minimal activity was conducted over the quarter at our Aileron and Warrabri project areas. NuPower will be reviewing these projects in light of the recent and expected results from the Eva and Lucy Creek properties and resetting priorities for exploration on these areas accordingly.

Corporate

The AGM of the company was held on 5 November 2009, with all resolutions being passed by shareholders. One of these resolutions gave approval for a share capital issue of 150 million shares at a price no less than 80% of the volume weighted average of the share price for 5 days preceding any placement. Your company is continuing to discuss capital raising alternatives. The company had cash at bank as at 31 December 2009 of \$2.6 million.

It has been a very busy and exciting quarter for NuPower. The company has carried out two successful exploration campaigns that we believe provide a real short term focus for the company over the next 12 months. Additionally, we have additional targets at Cobar II, Lagoon Creek and the Warrabri and Aileron tenement areas to progress.

The company will consolidate the results achieved and plan its activities for 2010 over the coming quarter. I look forward to advising our shareholders of our progress.



I.G Muir
Executive Chairman

For further information contact: NuPower Resources Limited
Sydney, Australia +61(2) 9262 4235
Or visit our website at www.nupowerresources.com.au

The information in this release relates to exploration results and geological interpretation by Mr Warrick Rafferty (MSc). Mr Rafferty is a Member of the Australasian Institute of Mining and Metallurgy and a Fellow the Society of Economic Geology and has sufficient experience to qualify as a Competent Person as defined in the Australasian Code for Reporting of Mineral Resources and Ore Reserves (JORC CODE) for reporting exploration results. Mr Rafferty consents to the inclusion of the data in the form and context in which it appears.

The release contains forward-looking statements. The actual results could differ materially from a conclusion, forecast or projection in the forward-looking information. Certain material factors or assumptions were applied in drawing a conclusion or making a forecast or projection as reflected in the forward-looking information.

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Attachment 1. Eva Drilling Assay Results

Drill Hole	From (m)	To (m)	Length (m)	U ₃ O ₈ (%)	U ₃ O ₈ (lb/tonne)	Au (g/t)
EV001	0	5	5	0.15	3.3	1.67
	8	15	7	1.25	27.6	4.79
EV002	1	1.3	1.3	0.14	3.1	2.12
	3	10	7	0.79	17.4	5.69
	10	11.5 historic mine void				
	11.5	19	7.5	0.69	15.2	6.18
EV003	12	20	8	0.13	2.9	0.14
EV004	9	32	23	0.19	4.2	0.33
	39	40	1	0.21	4.6	2.37
EV005	12	15	3	0.10	2.2	1.12
	26	32	6	0.11	2.4	0.09
EV007	28	29	1	0.82	18.1	0.56
	39	40	1	0.21	4.6	0.54
	44	50	6	0.23	5.1	0.15
EV008	0	9	9	0.18	4.0	0.45
	14	19	5	0.32	7.1	1.20
	25	33	8	0.23	5.1	1.54
EV009	14	15	1	0.07	1.5	0.06
	30	31	1	0.11	2.4	0.11
	37	48	11	0.30	6.6	4.28
	37	42	5	0.37	8.2	6.59
EV010	11	19	8	0.14	3.1	0.94

Including	17	19	2	0.38	8.4	3.60
	24	35	11	0.14	3.1	0.86
including	29	34	5	0.24	5.3	1.67
EV011	9	13	4	0.06	1.3	0.07
	20	21	1	0.05	1.1	1.89
	24	26	2	0.07	1.5	0.01
	29	33	4	0.05	1.1	0.47
EV012	25	36	11	0.15	3.3	0.17
	45	47	2	0.12	2.6	1.12
EV013	44	45	1	0.05	1.1	1.50
	48	49	1	0.15	3.3	1.44
	55	57	2	0.02	0.4	6.17*
	60	61	1	0.07	1.5	0.56
EV014	33	35	2	0.08	1.8	0.80
EV015	Results Pending					
EV016	Not assayed					
EV017	No Significant intersections					
EV018	0	5	5	0.23	5.1	1.43
	12	14	2	0.06	1.3	4.93
EV019	Results Pending					
EV020	0	19	19	0.29	6.4	3.42
including	2	4	2	0.97	21.4	6.08
and	16	19	3	0.31	6.8	10.00
EV021	0	28	28	0.16	3.5	2.70
including	8	15	7	0.42	9.3	6.55

EV022	0	16	16	1.38	30.4	8.52
including	3	7	4	2.18	48.1	11.91
	16	19 historic mine void				
	19	26 EOH	7	0.56	12.3	3.77
EV023	9	32	23	0.41	9.0	5.17
including	27	31	4	1.27	28.0	18.3
EV024	0	31	31	0.69	15.2	4.55
including	19	25	6	2.00	44.1	15.00

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