

Quarterly Activities Report For the Quarter ended 30 September 2016

31 October 2016

HIGHLIGHTS FOR THE QUARTER

Turner River Project

- > Gold
- Wingina Deeps drilling proves gold mineralization ongoing at depth
- Structural identification of Wingina Shear Zone, providing De Grey with 50kms of underexplored shear zone and a further 30km along the Mallina shear zone
- Wingina Well resource upgrade to 288,000 oz. @ 1.6g/t, with internal high grade lode of 144,000 oz. @ 4.1 g/t

Base Metals

- Significant, shallow, high grade VMS style mineralisation intersected at Discovery and Tabba Tabba prospects
- Resource updates underway for both Discovery and Orchard Tank

> Lithium

- King Col pegmatite trend identified within the Tabba Tabba greenstone belt
- Significant anomalous lithium results from rock chip sampling with a high-grade result of 4.22% Li2O

Corporate

- Cash at the end of quarter of \$0.4 Million
- Since end of quarter De Grey has;
 - o raised \$1.25 Million raised via a private placement
 - o Commenced a Share Purchase Plan to raise a further \$1.25M
 - o Commenced an Unmarketable Parcel Share Sale Facility
 - Announced a 1:20 Capital Consolidation for approval by shareholders
 - Entered into an option agreement to acquire additional 9 kms of the Tabba Tabba Thrust from Haoma Mining NL.

ASX: DEG

Shares on Issue

As at 30 September 2016

2,888,652,645

Board of Directors

Simon Lill Executive Chairman

Davide Bosio Director

Steve Morris Director

Company Secretary/CFO

Craig Nelmes

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De Grey Mining Ltd (ASX: DEG, "De Grey", "Company") is pleased to report on the activities completed during the September 2016 quarter.

Turner River Project (100% De Grey Mining)

The Company has undertaken the following strategic exploration programs during the quarter with respect to gold, base metals and pegmatite mineralization. All mineralization is located in the 100% owned De Grey tenement package, collectively known as the *"Turner River Project".*

Gold

1. Wingina Well

The Company drilled 4 diamond holes at Wingina Well during the quarter.

The program had two specific objectives:

- 1. Drilling to determine potential for high grade mineralisation at depth at Wingina Deeps, as well as to obtain fresh core to provide geological information and metallurgical assessment of mineralisation in fresh bedrock.
- 2. Shallow oxide drilling of the known and thickest portions of the Footwall high grade lode for confirmation of grade and structural information (one hole); and

All three diamond holes into Wingina Deeps have intersected a broad sequence of fresh altered BIF and internally folded chert sequence now recognised as Wingina Shear Zone (WSZ) with extensive, sericite-sulphide alteration, shearing, internal parasitic folding and minor brecciation. The WSZ is interpreted to represent a significant shear zone providing a large mineralised plumbing system over at least 10km strike length within the larger regional scale Tabba Tabba Thrust. Results also show that the WSZ is mineralised to at least 350m vertical depth.

Results of all holes show the shear zone hosts broad widths of gold mineralisation:

52m @ 0.93g/t (WRC211D); 21m @ 0.96g/t (WDH010); and 14m @ 0.33g/t and 14m @ 0.65g/t (WRC211D2).

Strong indications of higher grade mineralisation exists, as highlighted by 4m @ 5.57g/t, 4m @ 2.63 and 2m @ 2.7g/t. Results are listed in Table 1, and shown in Figure 1.



Table 1Wingina Well – Diamond drill results

(Intercepts based on 0.5g/t cut off with higher grade intervals 1.5g/t cutoff)

Hole ID	Intercept		From (m)	Recovery	Comment
WDH009	1.1m @3.92 g/t Au		30.3	82%	
	11.6m @ 1.69g/t Au	l	36	63%	
	13.6m @ 3.65g/t A	49.8	72%	HW HG Lode	
	including	10.5m @ 4.45g/t Au	50.8	73%	
	1.5m @ 4.38g/t Au		66.5	87%	
	9.6m @ 7.55g/t Au		70.5	61%	Footwall HG Lode
	10.8m @ 3.62g/t Au		83.1	51%	Footwall HG Lode
	including	5.8m @ 4.37g/t Au	88.1	65%	
	2m @ 0.81 g/t Au		97.9	40%	
WRC211D2	6m @ 0.57 g/t Au		398	100%	
	4m @ 0.80 g/t Au		427	100%	
	1m @ 0.50 g/t Au		440	100%	
	including	1m @ 1.69g/t Au	430	100%	
WRC211D2	4m @ 1.71 g/t Au		443	100%	
	including	2m @ 2.70g/t Au	445	100%	
	1m @ 1.31 g/t Au		480	100%	

Following the end of the quarter the Company released an updated resource statement in respect of the Wingina resource. This increased the resource by 7% to 5.49Mt at 1.6g/t Au for 288,000 ounces of which 173,000oz (60%) is in Measured category. Importantly, the estimate also showed an internal high grade lode of 1.1Mt at 4.1 g/t Au for 144,000 ounces, commencing at surface. This high-grade lode contains 50% of the gold resource within 20% of the deposit tonnes. Open pit optimisations should be finalized in the current quarter.





Fig 1 Wingina Longsection, showing location of drill holes and gold intercepts

2. Total Gold Resources and new Opportunities

The total gold resource at the Turner River Project is now 366,000 oz. @ 1.6 g/t (excludes gold contained at Discovery Project) as shown in Table 2 below.

Table 2 - Turner River Project - Total Gold Mineral Resources

		Measured		Indicated		Inferred		Total		
Deposit	Zone	Tonnes	Au	Tonnes	Au	Tonnes	Au	Tonnes	Au	Au
		Mt	g/t	Mt	g/t	Mt	g/t	Mt	g/t	Ounces
Wingina Well ¹	Lode	0.78	4.1	0.12	3.8	0.19	4.1	1.10	4.1	144,000
	Halo	2.3	0.9	0.86	1.2	1.23	1.2	4.39	1.0	144,000
	Subtotal	3.08	1.7	0.99	1.4	1.42	1.6	5.49	1.6	288,000
Mount Berghaus ²						0.9	1.4	0.9	1.4	43,000
Amanda ²						0.7	1.6	0.7	1.6	35,000
Turner River Project	Total	3.08	1.7	0.99	1.4	3.02	1.5	7.1	1.6	366,000
Rounding discrepancies m	ay occur					Mt = Million tonnes				

Tonnes, grade and ounces rounded to reflect accuracy of estimates

¹ Resources Statement by De Grey Mining Limited as reported to the ASX on October 28 2016

² Resources Statement by De Grey Mining Limited as reported to the ASX on June 23 2016

g/t = grams/tonne

Au = Gold



As a result of work concluded during the quarter, the Company's geologists have now identified that the Turner River deposits and mineralisation reside within the Wingina Shear Zone (Wingina Well, Amanda) which forms part of the larger Tabba Tabba Thrust and the Mallina Shear Zone (Mt. Berghaus). Both shear zones remain under explored with only limited drilling away from the known resources. De Grey tenure covers over 50 kms of the Tabba Tabba Thrust, and has recently secured another 9 kms of the Tabba Tabba Thrust through a right to mine and explore option signed with Haoma Mining NL on E45/2983. (Figure 2)

Figure 2 - Regional Tenement Plan, showing the newly secured southern portion of E45/2983



The company also announced the identification of the **Wallareenya Gold Target**, a large high priority 6km x 2km zone defined by highly anomalous gold and arsenic in previous surface rock chip and lag sampling, together with encouraging wide spaced aircore drilling intercepts. This highly anomalous zone is located along the Tabba Tabba Thrust where it intersects a large structural splay to the north east. This large gold target is located approximately 500m north of, the Orchard Tank-Discovery-Hakea base metal trend within the Tabba Tabba Greenstone rocks.

During the current quarter the Company intends to:

- 1. Undertake ~ 6,000 m of RC drilling at Mt Berghaus with the view to increasing and upgrading the gold resource;
- 2. Continue geochemical soil sampling work across the company's tenements, but most specifically to identify drill targets at:
 - King Col pegmatite trend;



- Wallareenya Gold Target;
- > The newly optioned area of E45/2983.

Base Metals

1. Discovery

During the quarter a total of 24 holes were completed for an advance of 1,646m. The drilling targeted near surface high grade mineralisation previously defined by shallow RAB and limited RC drilling.

The program confirmed shallow high grade mineralisation extending over at least 300m along strike. Previous deeper diamond drilling also demonstrates the high-grade VMS style Au-Ag-Zn-Pb-Cu mineralisation continues at depth to at least 250m and remains open in most directions (Fig 3). Table 3 shows the key intersections.

	From	
Hole	(m)	Intercept
DISRC011	8	20m @ 1.41g/t Au, 95.4g/t Ag, 2.56%Zn, 1.35%Pb, 0.11%Cu
including	12	8m @ 2.11g/t Au, 105.2g/t Ag, 3.35%Zn, 1.53%Pb, 0.10%Cu
DISRC012	24	20m @ 0.63g/t Au, 94.2g/t Ag, 2.26%Zn, 1.14%Pb, 0.14%Cu
including	24	8m @ 1.10g/t Au, 172.5g/t Ag, 3.76%Zn, 1.79%Pb, 0.23%Cu
DISRC013	68	24m @ 1.56g/t Au, 289.9g/t Ag, 5.12%Zn, 2.92%Pb, 0.26%Cu
including	68	20m @ 1.82g/t Au, 339.6g/t Ag, 6.00%Zn, 3.40%Pb, 0.31%Cu
DISRC014	12	4m @ 17.70g/t Au, 193.0g/t Ag, 2.84%Zn, 1.76%Pb, 0.22%Cu
DISRC015	28	16m @ 2.32g/t Au, 146.1g/t Ag, 5.50%Zn, 2.94%Pb, 0.25%Cu
including	32	8m @ 1.45g/t Au, 196.0g/t Ag, 8.52%Zn, 4.47%Pb, 0.34%Cu
DISRC016	56	16m @ 0.92g/t Au, 125.9g/t Ag, 5.92%Zn, 2.25%Pb, 0.20%Cu
including	56	8m @ 1.62g/t Au, 207.0g/t Ag, 9.98%Zn, 3.69%Pb, 0.30%Cu
DISRC018	36	8m @ 1.67g/t Au, 123.5g/t Ag, 2.24%Zn, 1.38%Pb, 0.18%Cu
including	40	4m @ 1.59g/t Au, 143.0g/t Ag, 3.45%Zn, 1.68%Pb, 0.19%Cu
DISRC020	48	4m @ 0.97g/t Au, 114.0g/t Ag, 4.46%Zn, 1.93%Pb, 0.24%Cu
DISRC024	28	16m @ 0.80g/t Au, 158.9g/t Ag, 1.95%Zn, 0.87%Pb, 0.07%Cu
including	32	4m @ 2.04g/t Au, 412g/t Ag, 5.32%Zn, 2.23%Pb, 0.135%Cu
DISRC025	52	4m @ 1.59g/t Au, 231.0g/t Ag, 3.65%Zn, 1.75%Pb, 0.23%Cu
DISRC026	8	4m @ 4.48g/t Au , 8.8g/t Ag, 0.63%Zn, 0.56%Pb, 0.04%Cu
DISRC027	24	12m @ 2.17g/t Au, 37.1g/t Ag, 0.68%Zn, 0.33%Pb, 0.06%Cu
DISRC028	44	8m @ 1.48g/t Au, 91.0g/t Ag, 1.29%Zn, 0.59%Pb, 0.05%Cu
DISRC030	32	4m @ 0.01g/t Au, 1.1g/t Ag, 0.74%Zn, 0.02%Pb, 0.01%Cu
	40	4m @ 2.61g/t Au, 91.8g/t Ag, 0.56%Zn, 0.40%Pb, 0.05%Cu

Table 3	Significant new drill results at the Discovery Deposit include
	Intercepts (using > 0.5% Zn with including intercept > 3.0% Zn)





Figure 3 – Discovery Cross Sections

2. Tabba Tabba

During the quarter the Company conducted a RC drilling program at Tabba Tabba targeting infill drilling of the known VMS style mineralisation associated with a 1st priority IP anomaly. A total of 12 holes were completed for an advance of 772m. Initial 4m composite samples were submitted to the laboratory and detailed 1m infill sampling subsequently completed over the anomalous 4m composite zones with significant results listed in Table 4.

The infill drilling programme has been successful in defining continuity of the Zn-Ag dominant VMS style mineralisation at depth. At surface, this mineralisation occurs as a series of small thin rubbly outcrops of gossan over approximately 200m strike length. In drilling, the mineralisation dips sub-vertical and is variably weathered to approximately 20m depth.

The strongest zone of VMS style mineralisation occurs as a northeast trending zone over approximately 200m strike length with thin extensions to the northeast. Mineralisation is defined from surface to approximately 100m depth.

The defined bedrock mineralisation is also coincident with a 1.3km long moderate to strong northeast trending 1st priority chargeability IP anomaly and potentially a demagnetised zone. Modelling of this IP target suggests the target is sub-vertical with a steep potential plunge direction over approximately 300m strike length, which correlates well with the strongest mineralisation defined in drilling.



Two additional holes (Drill holes TTRC024 and 025) were drilled approximately 500m to the south west of the known gossan area where the IP target continues. No significant results were defined in this location.

Table 4 Tabba Tabba Prospect - Significant Zn dominant lodes

(Lodes defined >0.5% Zn with internal higher grade intercepts >3.0% Zn with max 2m internal dilution)

HoleID		From	Interval	Au	Ag	Cu	Pb	Zn	In Situ Grade
		(m)	(m)	g/t	g/t	%	%	%	ZnEq %**
TTRC026		14	6	0.08	7.3	0.04	0.11	0.60	1.23
		22	6	0.08	10.9	0.02	0.23	1.14	1.92
		53	1	0.06	9.4	0.01	0.23	0.54	1.21
TTRC027		19	1	0.03	29.6	0.03	0.28	0.76	2.12
		24	9	0.27	58.7	0.22	1.08	2.68	6.78
	including	24	2	0.71	158.5	0.27	3.60	8.06	18.90
TTRC028		48	1	0.05	10.1	0.02	0.21	0.86	1.56
		56	9	0.34	90.1	0.17	1.57	5.56	11.16
	including	56	3	0.91	216.7	0.31	3.94	13.62	27.22
TTRC028		69	2	0.34	38.0	0.95	0.29	1.39	6.09
TTRC029		29	7	0.13	60.1	0.10	1.03	4.55	8.01
	including	31	4	0.18	95.6	0.13	1.60	6.96	12.28
TTRC030		30	3	0.25	29.1	0.15	0.40	1.25	3.51
TTRC035		53	7	0.04	28.3	0.06	0.32	1.57	3.02
	including	56	1	0.05	46.8	0.06	0.83	3.38	5.94

Further assessment of the IP modelling will now be undertaken to better target mineralisation in the immediate vicinity along the prospective Tabba Tabba Greenstone Belt.

3. Orchard Tank

The Company completed work to identify specific gravities associated with 4 different zones of mineralization, being:

- Fresh massive sulphide;
- Fresh halo;
- Transition; and
- > Oxide.

The resource update on both Discovery and Orchard Tank is pending.

4. Pegmatites/Lithium

In early October, following the end of the quarter, the Company reported a 7.5km long zone (Figure 4) of relatively sparsely outcropping pegmatites. The new pegmatite trend, named the King Col Pegmatite Trend, is considered to be highly prospective as the zone has:



- Identified a lithium bearing mineral lepidolite with an initial high grade sample of 4.22% $\rm Li_2O$
- anomalous lithium occurring over a 1.5km zone
- anomalous Li-Cs-Ta (LCT) indicator elements over 7.5km strike length; and
- occurs within the Tabba Tabba greenstone rocks.

The pegmatite outcrops are generally very low lying, small to patchy outcrops with intervening areas of aeolian sand, soil and large areas of quartz scree. In many instances the individual pegmatites are interpreted to have potential widths ranging from a few metres up to 50m. The patchy outcrops of pegmatite continue over a 7.5km strike length within greenstone rocks (mafic to ultramafic rocks) of the Tabba Tabba Greenstone Belt.

The rock chip sampling results (Table 5) are considered very encouraging, considering the limited nature of this initial first pass reconnaissance sampling programme. The results include a peak of **4.22% Li₂O** associated with a small outcrop of the lithium bearing mineral – lepidolite, and an additional 8 samples ranging from **2.5% to 0.15% Li₂O** along a zone of 1.5km.

Rock chip sampling across the trend is ongoing.

Figure 4 New "King Col Pegmatite Trend" located in E45/2533 (green zone)





Table	e5 K	ing Col F	Pegmatite	Trend h	ighlighti	ng the L	CT assoc	ciated ele	ements
	Sample	Easting	Northing	Be ppm	Cs ppm	Nb ppm	Rb ppm	Li₂O %	Ta₂O₅ ppm
	C 76968	682494	7699807	5.7	51.5	146.0	177.0	4.22	83.3
	C 76969	682493	7699807	95.1	937.0	59.1	3780.0	0.72	84.9
	C 76970	682492	7699808	142.5	167.5	20.8	890.0	1.90	9.2
	C 76971	683500	7700162	1.9	4.6	15.1	99.8	0.02	5.9
	C 76972	682546	7699837	198.5	668.0	66.3	2880.0	0.18	221.6
	C 76973	682311	7699840	8.7	11.7	72.0	302.0	0.04	14.5
	C 76974	682378	7699852	49.8	38.5	6.2	980.0	0.02	2.9
	C 76975	682379	7699851	4.5	39.6	60.2	490.0	0.05	8.3
	C 76976	682599	7699937	8.6	11.4	73.6	288.0	0.03	13.4
	C 76977	683022	7699816	7.0	195.5	40.8	2350.0	0.02	17.2
	C 76978	683388	7700018	5900.0	128.5	5.5	59.3	0.03	1.9
	C 76979	683365	7700031	9770.0	209.0	5.7	16.8	0.31	6.7
	C 76980	683501	7700162	16.6	3.7	22.3	81.4	0.01	13.4
	C 76981	684260	7700465	15.1	1.5	3.7	11.1	0.00	0.3
	BEY13801	684283	7700394	6.9	9.1	25.7	100.5	0.00	5.1
	BEY13802	684212	7700263	81.1	14.0	4.2	25.3	0.01	5.1
	BEY13803	684382	7700296	42.2	10.8	1.2	12.0	0.01	2.0
	BEY13804	684715	7700523	1.7	2.4	11.8	26.6	0.00	5.9
	BEY13805	684825	7700557	2.5	26.2	69.1	540.0	0.00	19.6
	BEY13806	685002	7700909	15.1	7.6	64.5	109.0	0.02	17.8
	BEY13807	685175	7700733	14.4	13.7	55.6	261.0	0.01	23.4
	BEY13808	685134	7700943	227.0	15.2	4.9	215.0	0.03	6.1
	BEY13809	682457	7699958	11.1	130.5	110.0	1020.0	0.04	61.2
	BEY13810	682536	7699834	105.5	1605.0	45.9	8420.0	2.52	90.6
	BEY13811	685320	7700941	3.6	5.2	19.2	48.3	0.01	9.1
	BEY13812	686240	7701353	1.6	2.9	10.9	47.8	0.00	2.2
	BEY13813	683453	7700148	6.9	817.0	91.1	3370.0	0.54	33.1
	BEY13814	683452	7700150	7.5	808.0	116.5	3070.0	0.64	66.4
	BEY13815	683364	7700030	23800.0	565.0	75.8	480.0	0.15	73.9
	BEY13816	683227	7699893	116.5	15.7	40.4	183.0	0.01	23.8
	BEY13817	683034	7699826	131.5	85.3	73.9	770.0	0.07	13.1
	BEY13818	682393	7699890	5.6	34.7	44.3	428.0	0.05	6.4
	BEY13819	682393	7699889	5.3	28.6	69.1	480.0	0.05	5.7
	BEY13830	689399	7702065	2.7	17.3	9.2	371.0	0.01	1.7
	BEY13831	689133	7702040	4.9	20.5	36.9	355.0	0.02	3.4
	BEY13832	688830	7702039	5.3	50.8	23.6	540.0	0.02	5.0
	BEY13833	688517	7701975	2.4	28.5	10.9	740.0	0.02	1.2
	BEY13834	688109	7701867	2.3	7.4	25.2	198.0	0.01	6.2



Sands Royalty

De Grey generated royalty revenues of \$13,200 for the current quarter, and which has been received in October 2016.

The June 2016 royalty of \$3,300 was received during the quarter.

Beyondie

The magnetite iron ore project at Beyondie is under the management of joint venture partner Emergent Resources Ltd (ASX: EMG, "Emergent"), whom have an 80% interest earned in the project.

EMG has retained and continues to develop its remaining Beyondie Iron Ore tenement E52/2215.

Progress and further updates can be viewed on the Emergent website www.emergentresources.com.au.

Corporate

The cash on hand at end of the quarter was \$0.4 Million.

During October 2016 and subsequent to the Quarter end, the Company carried out the following corporate initiatives:

- On 21 October 2016, the Company announced it had completed a private placement of 434.7 Million ordinary fully paid shares at an issue price of \$0.0029/per share to clients of Beer & Co Pty Ltd and DJ Carmichael Pty Ltd to raise \$1.25 Million. Capital raising was completed on 21 October 2016 at an issue price of \$0.0029 per share. In addition, and the subject of approval by shareholders at the upcoming 2016 Annual General Meeting, the Company will issue one (1) free attaching option for every three (3) new shares subscribed.
- On 28 October 2016, the Company announced it would offer existing shareholders an opportunity to participate in a Share Purchase Plan ("SPP"), seeking to raise up to an additional \$1.25M under same terms as placement.
- On 28 October 2016, an unmarketable share sale facility was initiated and to close after a six-week period on 12 December 2016.
- On 31 October 2016, the Company has announced that the 2016 Annual General Meeting would be held at 11.00am WST on Wednesday 30 November 2016. Of the Resolutions put to shareholders, is one that is seeking to undertake a *"Capital Consolidation"* on a 1 for 20 basis.



Appendix 1: Tenement Holdings and Movements

Schedule of Mining Tenements and Beneficial Interests Held as at the end of the September 2016 Quarter

Project/Location	Country	Tenement	Percentage held/earning
			_
Beyondie	Australia	E52/2215	20% ¹
Turner River	Australia	E47/891	100%
Turner River	Australia	E45/2533	100%
Turner River	Australia	E45/2364	100%
Turner River	Australia	E45/2995	100%
Turner River	Australia	E45/3390	100%
Turner River	Australia	E45/3391	100%
Turner River	Australia	E45/3392	100%

¹ De Grey retains 100% rights to all non-iron ore related minerals under a Split Commodity Agreement.

Schedule of Mining Tenements and Beneficial Interests Acquired during the June 2016 Quarter

Project/Location	Country	Tenement	Granted Date
Nil			

Schedule of Mining Tenements and Beneficial Interests Disposed of during the June 2016 Quarter

Project/Location	Country	Tenement	Withdrawal Date
Nil			

The information in this report that relates to exploration results and resources is based on, and fairly represents information and supporting documentation prepared by Mr. Andrew Beckwith, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy. Mr. Beckwith is a consultant engaged by De Grey Mining Limited. Mr. Beckwith 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 JORC Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves". Mr Beckwith consents to the inclusion in this report of the matters based on information in the form and context in which it appears.