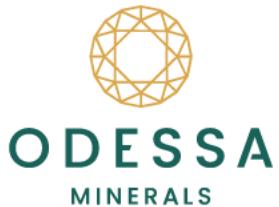


ASX Announcement

09 January 2026



SAMPLING COMPLETED AT KEY BASE METAL AND GOLD TARGETS

Highlights:

- Mapping and rock chip sampling has been completed at the Lyndon Project, across PRISMA hyperspectral dolomite and kaolinite anomalies¹
- Rock chip sampling aimed to delineate base metal mineralisation within dolomite-altered Gneuda Formation limestones across multiple targets:
 - Ebro Bore: 8km x 2km area following up on previous rock chip sample results up to 0.8% Pb and 0.3% Cu²
 - Tower Bore: First-pass sampling across a 6km x 1.2km high-tenor hyperspectral dolomite anomaly
- Additional rock chip sampling was completed at Beroi Dam where fault breccias are associated with a 9.5km strike hyperspectral kaolinite anomaly
- Assay Results from this expanded sampling campaign are expected to be returned in March 2026, with results to be released to the market in due course
- Devonian carbonates of Western Australia are known hosts of copper-lead-zinc Mississippi Valley-Type deposits, such as the productive Lennard Shelf

Odessa Minerals Limited (ASX:ODE) (“Odessa” or the “Company”) is pleased to provide an Exploration Update for the Lyndon Project (“Project”), located approximately 200km northeast of Carnarvon in Western Australia.

Tim Goldsmith, Non Executive Chairman of Odessa, said;

“Following the completion of alteration mapping utilising remotely sensed multi- and hyper-spectral data, the Company has conducted ground-based mapping of key base metal and gold prospects at the Lyndon Project. A total of 200 rock chip samples have been collected across dolomite and kaolinite anomalies to determine the potential for base metal and gold mineralisation at the Lyndon Project. Fieldwork primarily focused on expanding the Ebro Bore Prospect – an 8km x 2km area of dolomite-altered carbonates that previously returned surface rock chip assays up to 0.8% Pb and 0.3% Cu during first-pass reconnaissance sampling in early 2025. The first sampling of the Tower Bore Prospect, a high-tenor 6km x 1.2km hyperspectral dolomite anomaly, has been completed. Tower Bore represents a promising large-scale new target for base metal mineralisation discovery at the Project.

Additional mapping and rock chip sampling was completed at Beroi Dam, where kaolinite anomalism spans a strike of 9.5km and more than 2km of width at its maximum extent. The kaolinite anomalism at Beroi Dam is associated with fault breccias which the Company believes to be prospective for gold mineralisation.

Analytical results of this work are expected to be returned in March 2026, with the Company to update the market in due course.

¹ Refer to ASX Announcement titled “Spectral Mapping Highlights Multiple Targets at Lyndon” Dated 19 November 2025 for details on alteration mapping across the Lyndon Project

² Refer to ASX Announcement titled “Base Metal Mineralisation Confirmed at Lyndon Project” Dated 30 July 2025 for details on first-pass Rock Chip Sampling at Ebro Bore



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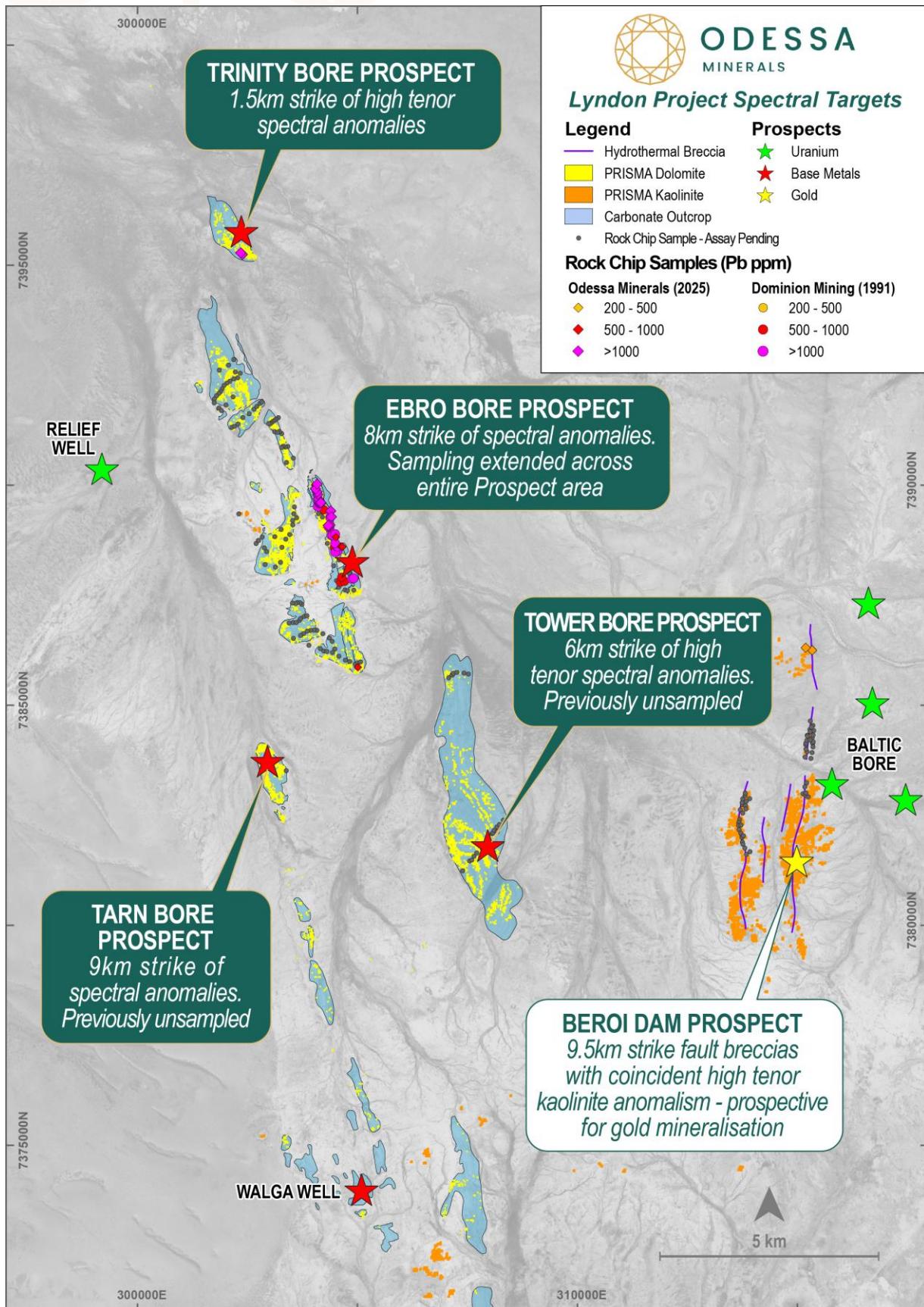


Figure 1: 95th percentile dolomite (yellow) and kaolinite (orange) anomalies at Lyndon in relation to mapped Gneuda Formation and hydrothermal fault breccias. Recently-collected sample locations displayed (assays pending).



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Lyndon Base Metal Mineralisation

Base metal mineralisation at the Lyndon Project is found within the Devonian Gneuda Formation carbonate sequences that are equivalent to the Lennard Shelf carbonates, WA, that are host to Mississippi Valley Type and SEDEX Cu-Pb-Zn deposits. Base metal mineralisation at the Project was first discovered in 1973 by Aquitaine Minerals through mapping and sampling. Dominion Mining undertook a limited sampling program at Ebro Bore in 1991. Since that time, subsequent exploration activities at the Project have not prioritised base metal investigation.

The Gneuda Formation at the Lyndon Project spans approximately 100km of strike, though only limited areas had been assessed prior to the most recent field campaign. Odessa previously conducted reconnaissance rock chip sampling and mapping at the Ebro Bore Prospect, with surface samples returning up to 0.8% Pb (LYRK003) and 0.3% Cu (LYRK002)³. Mapping has shown that the majority of mineralisation is hosted within dolomite-altered limestone, with the highest grades present in brecciated dolomites proximal to major fault zones.

Odessa subsequently carried out alteration mapping at the Lyndon Project utilising remotely-sensed multi- and hyper-spectral data that delineated the extent of dolomitisation within the Gneuda Formation and identified several new, large-scale base metal targets (Figure 1).

Mapping and Rock Chip Sampling

Odessa has now completed extensive mapping and rock chip sampling across the Ebro Bore Prospect, as well as first-pass sampling at the Tower Bore and Beroi Dam Prospects, with a total of 200 samples collected.

Sampling at Ebro Bore focused on the intersection of faults with bedded limestone, where dolomitic alteration has previously been identified in relation to base metal mineralisation. Sampling in early 2025 by Odessa delineated base metal mineralisation at Ebro Bore over a strike of 1.5km. Recently-completed sampling has been conducted across the entire 8km of strike, aiming to define further base metal mineralisation across the Prospect (Figures 2 and 3).

Sampling for the first time has been completed in cross sectional orientation lines across the Tower Bore Prospect. Tower Bore is defined by a 6km long subcropping carbonate-sandstone sequence of the Gneuda Formation. These initial samples aim to determine the optimal host units at the Prospect to guide further extensive sampling across the entire strike length of the Prospect.

Additional sampling has been completed in the northern half of the Beroi Dam Prospect, which is defined by a spectral kaolinite anomaly that spans a strike of 9.5km and has a width exceeding 2km at the main portion of the anomaly (Figure 1). The kaolinite anomaly is found to be associated with a series of north-trending vuggy hydrothermal fault breccias and quartz veins, which the Company is assessing for the potential of associated gold mineralisation.

³ Refer to ASX Announcement titled “Base Metal Mineralisation Confirmed at Lyndon Project” Dated 30 July 2025 for details on Rock Chip Sampling at Ebro Bore



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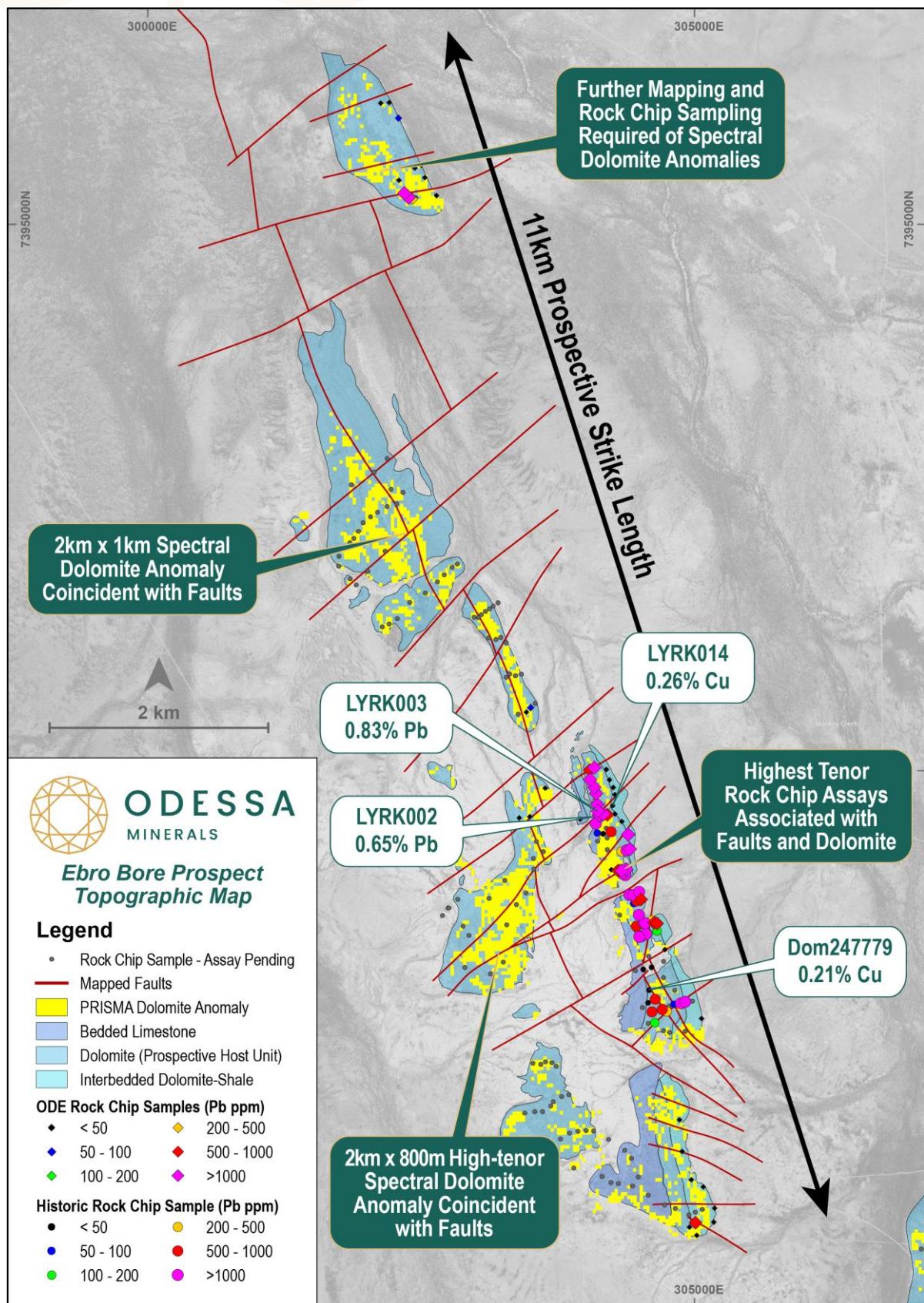


Figure 2: Ebro Bore Prospect rock chip samples coded by Pb ppm. 95th percentile PRISMA dolomite anomalies highlighted in yellow overlain on outcropping carbonates. Recently-collected sample locations displayed (assays pending).



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Figure 3: Rock Chip Sample location LYRK292 (302283mE, 7391392mN) showing outcropping interbedded limestone and sandstone.

Next Steps

Samples from the Ebro Bore and Tower Bore Prospects are to be submitted to Intertek, Perth for full suite multi-element analysis to determine the potential for base metal mineralisation within the Gneuda Formation analogous to the Mississippi Valley Type and SEDEX deposits hosted in the Lennard Shelf, WA.

Samples from Beroi Dam are to be submitted for both multi-element and gold analysis in order to determine the potential for gold mineralisation south of the previous rock chip sampling conducted by Odessa that showed a spatial Au-Ag-Bi-Mo-Cu association within hydrothermal breccias⁴.

Analytical results from the 200 rock chip samples are expected to be returned in March 2026; the Company will update the market in due course upon receipt of the results.

The Tarn Bore Prospect, encompassing approximately 9 km of strike length within the Gneuda Formation, was subjected to preliminary reconnaissance during the latest field campaign, though the area was found to be largely concealed by transported cover, hampering surface rock chip sampling. This area will require soil sampling in order to delineate key trends for follow-up drill testing.

Based on the results from the orientation rock chip sample lines at Tower Bore, future expanded sampling will be required to understand prospective mineralised trends, coupled with detailed mapping to delineate faults and dolomite alteration zones.

⁴ Refer to ASX Announcement titled “Spectral Mapping Highlights Multiple Targets at Lyndon” Dated 19 November 2025 for details on geochemical signatures at the Beroi Dam Prospect



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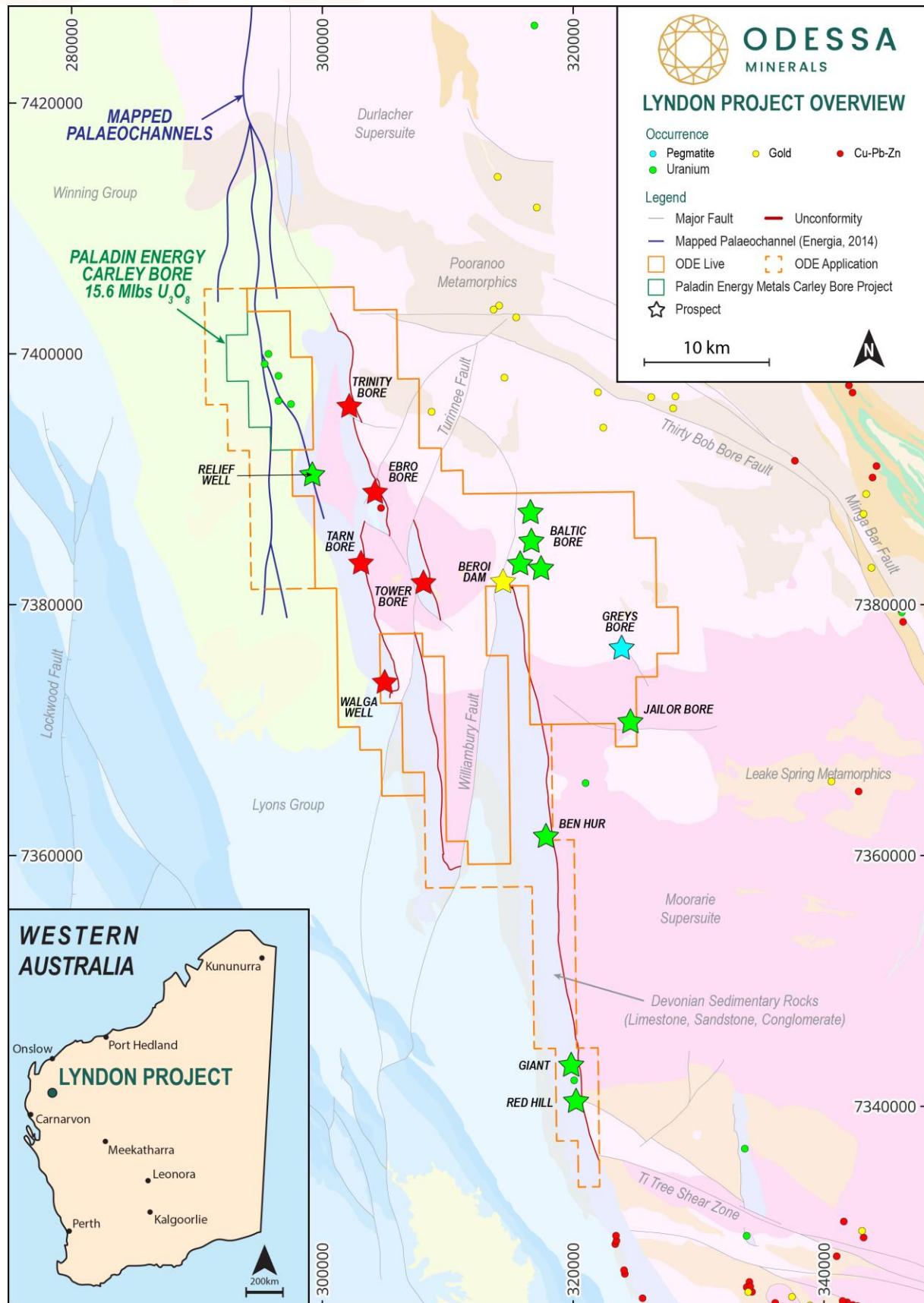


Figure 4: Lyndon Project in relation to Minedex occurrences and the Carley Bore Project (Paladin Energy). Underlain with GSWA 1:500k bedrock geology and structures.



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Lyndon Project Overview

The Lyndon Project is located on the margin of the Carnarvon Basin and Gascoyne Complex approximately 200km south of Onslow and 200km NE of Carnarvon, in Western Australia. The project consists of over 1,000km² of exploration licenses and applications.

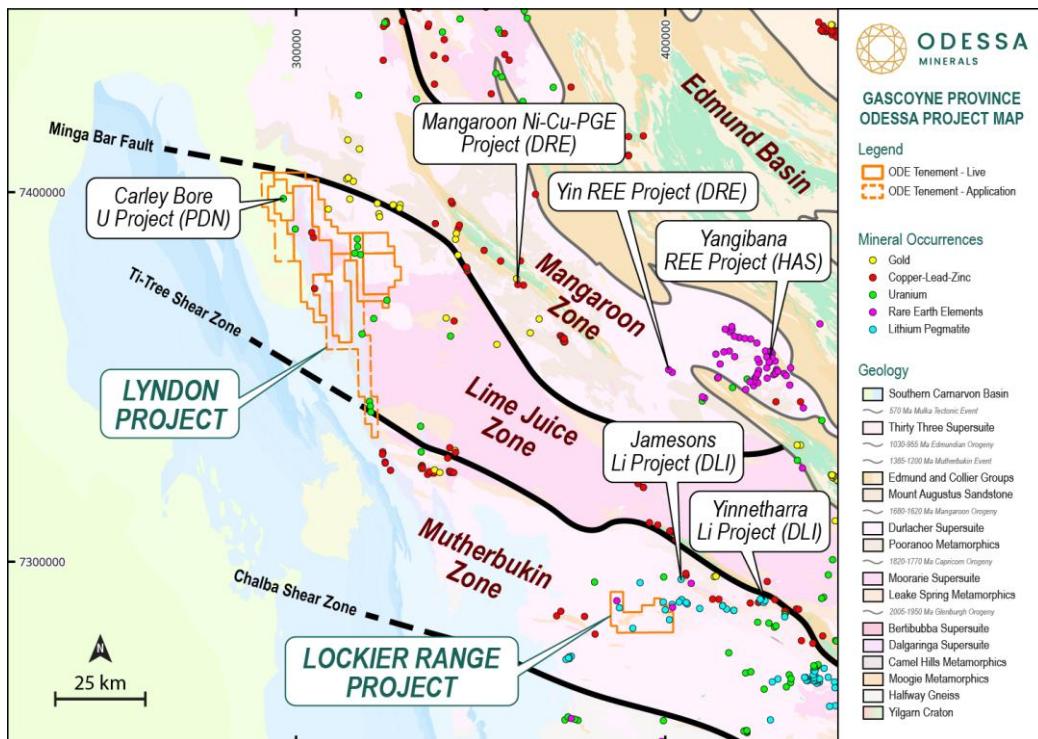


Figure 5: Odessa Minerals regional Gascoyne Project location map overlain with Geological Survey WA Minedex Occurrences.

The Company has previously conducted detailed airborne magnetics and radiometrics over a large part of the project area. The Project encompasses multiple MINDEX occurrences and is prospective for Lithium-pegmatites, uranium, rare earth elements, intrusive Ni-Cu-PGE, orogenic gold and sedimentary-hosted Cu-Pb-Zn mineralisation (Figure 3).

The Project area covers the unconformity between the eastern margin of the Phanerozoic Carnarvon Basin overlying Precambrian basement of the Gascoyne Province. The basement consists of Proterozoic granites, metamorphic gneisses and schists of the Gascoyne Complex. The western parts of the Project include the Palaeozoic-Mesozoic basin margin sedimentary sequences of the Southern Carnarvon Basin including the Merlinleigh Sub-Basin, marked by Devonian sedimentary carbonates; Carboniferous-Permian glaciogenic sediments of the Lyons Group; and the siliciclastic sequences of the Cretaceous Winning Group that were deposited coincident with NW-SE rifting.

This announcement has been authorised for release by the Board of Odessa Minerals Limited.

ENQUIRIES

Tim Goldsmith – Chairman
info@odessaminerals.com.au

Please visit our website for more information and to sign up to receive corporate news alerts:
www.odessaminerals.com.au

About Odessa Minerals

Odessa Minerals Ltd (ASX:ODE) is an Australian-listed exploration company focused on the discovery and development of mineral resources. The Company's strategy is to identify and acquire high-quality exploration and development projects with the potential to deliver significant shareholder value.

Previously reported exploration results

The exploration results contained in this announcement were previously reported by the Company in its ASX announcements dated 30 July 2025 and 19 November 2025. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Appendix A – December 2025 Rock Chip Samples (Assays Pending)

Sample ID	Easting	Northing	RL (m)	Description
LYRK134	315350	7384136	229	Vein Quartz
LYRK135	315343	7384147	233	Breccia
LYRK136	315361	7384168	232	Vein Quartz
LYRK137	315340	7384265	238	Vein Quartz
LYRK138	315359	7384321	238	Vein Quartz
LYRK139	315373	7384422	242	Vein Quartz
LYRK140	315355	7384542	244	Vein Quartz
LYRK141	315222	7383944	232	Breccia
LYRK142	315196	7384001	227	Vein Quartz
LYRK143	315193	7384102	227	Breccia
LYRK144	315193	7384138	227	Ironstone
LYRK145	315217	7384203	232	Breccia
LYRK146	315227	7384317	231	Ironstone
LYRK147	315230	7384299	232	Vein Quartz
LYRK148	315288	7384450	242	Breccia
LYRK149	315297	7384643	246	Ironstone
LYRK150	315323	7384504	254	Vein Quartz
LYRK151	315293	7384402	244	Vein Quartz
LYRK152	315292	7384214	239	Breccia
LYRK153	315356	7384053	225	Breccia
LYRK154	315335	7383925	223	Vein Quartz
LYRK155	315310	7383793	233	Breccia
LYRK156	315176	7383823	236	Breccia
LYRK157	313704	7382624	245	Vein Quartz
LYRK158	313751	7382741	260	Vein Quartz
LYRK159	313746	7382787	257	Breccia
LYRK160	313759	7382872	255	Breccia
LYRK161	313813	7382945	254	Vein Quartz
LYRK162	313818	7383001	252	Breccia
LYRK163	313917	7382877	235	Vein Quartz
LYRK164	313842	7382818	240	Vein Quartz
LYRK165	313824	7382713	244	Vein Quartz
LYRK166	313831	7382645	238	Granite
LYRK167	313759	7382550	230	Vein Quartz
LYRK168	313690	7382401	256	Breccia
LYRK169	313670	7382335	250	Breccia
LYRK170	313665	7382272	243	Vein Quartz
LYRK171	313676	7382174	251	Vein Quartz
LYRK172	313715	7382095	262	Quartzite
LYRK173	313741	7381996	252	Breccia
LYRK174	313751	7381890	251	Breccia
LYRK175	313764	7381843	245	Breccia
LYRK176	313807	7381756	248	Quartzite
LYRK177	313844	7381613	261	Breccia
LYRK178	313924	7381672	244	Vein Quartz
LYRK179	313774	7382031	246	Vein Quartz
LYRK180	313774	7382033	247	Granite
LYRK181	313720	7382278	241	Quartzite
LYRK182	303567	7389508	211	Carbonate
LYRK183	303555	7389352	209	Carbonate
LYRK184	303618	7389260	209	Carbonate
LYRK185	303528	7389198	209	Carbonate
LYRK186	303531	7389100	211	Carbonate
LYRK187	303460	7388881	213	Carbonate
LYRK188	303372	7388775	213	Carbonate
LYRK189	303283	7388590	215	Carbonate
LYRK190	303252	7388249	215	Carbonate
LYRK191	303135	7388141	222	Carbonate

Sample ID	Easting	Northing	RL (m)	Description
LYRK192	302900	7388199	210	Carbonate
LYRK193	302938	7388493	219	Carbonate
LYRK194	302885	7388578	218	Carbonate
LYRK195	302696	7388675	221	Breccia
LYRK196	302749	7388745	225	Schist
LYRK197	302755	7388744	223	Vein Quartz
LYRK198	302836	7388823	218	Sandstone
LYRK199	303122	7388832	214	Carbonate
LYRK200	303266	7388996	209	Carbonate
LYRK201	304194	7389474	206	Carbonate
LYRK202	304194	7389474	206	Carbonate
LYRK203	304202	7389385	206	Carbonate
LYRK204	304204	7389278	207	Carbonate
LYRK205	304115	7389355	206	Carbonate
LYRK206	304719	7388255	209	Carbonate
LYRK207	304582	7388302	207	Carbonate
LYRK208	304472	7388478	210	Carbonate
LYRK209	304316	7388679	207	Carbonate
LYRK210	304461	7388170	213	Carbonate
LYRK211	304524	7387833	213	Carbonate
LYRK212	304578	7387687	213	Carbonate
LYRK213	304717	7387621	215	Carbonate
LYRK214	304773	7387605	214	Carbonate
LYRK215	304658	7387915	214	Carbonate
LYRK216	304718	7388107	214	Carbonate
LYRK217	304820	7387990	212	Carbonate
LYRK218	304768	7387845	215	Carbonate
LYRK219	304898	7387887	213	Carbonate
LYRK220	304982	7387891	213	Carbonate
LYRK221	304917	7387616	211	Carbonate
LYRK222	303448	7386868	209	Carbonate
LYRK223	303540	7386880	208	Carbonate
LYRK224	303611	7386881	207	Carbonate
LYRK225	303686	7386932	211	Carbonate
LYRK226	303709	7386972	211	Carbonate
LYRK227	303786	7387019	216	Carbonate
LYRK228	303852	7387036	217	Carbonate
LYRK229	303736	7387296	215	Carbonate
LYRK230	303697	7387329	215	Carbonate
LYRK231	303638	7387336	213	Carbonate
LYRK232	303595	7387313	213	Carbonate
LYRK233	303523	7387323	209	Carbonate
LYRK234	303545	7386519	208	Carbonate
LYRK235	303897	7386364	211	Carbonate
LYRK236	304156	7386287	214	Carbonate
LYRK237	304237	7386232	215	Carbonate
LYRK238	304306	7386222	214	Carbonate
LYRK239	304434	7386200	213	Carbonate
LYRK240	304486	7386282	218	Carbonate
LYRK241	304425	7386453	213	Carbonate
LYRK242	304363	7386527	215	Carbonate
LYRK243	304215	7386626	220	Carbonate
LYRK244	304078	7386704	219	Carbonate
LYRK245	304009	7386708	215	Carbonate
LYRK246	303934	7386700	215	Carbonate
LYRK247	303858	7386684	215	Carbonate
LYRK248	303775	7386630	206	Carbonate
LYRK249	303708	7386587	208	Carbonate



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Sample ID	Easting	Northing	RL (m)	Description
LYRK250	302303	7389349	198	Granite
LYRK251	303544	7390616	190	Carbonate
LYRK252	303418	7390884	173	Carbonate
LYRK253	303363	7390869	183	Carbonate
LYRK254	303279	7391172	190	Carbonate
LYRK255	303229	7391219	191	Carbonate
LYRK256	303228	7391219	191	Carbonate
LYRK257	303204	7391537	186	Carbonate
LYRK258	303160	7391506	189	Carbonate
LYRK259	303127	7391482	190	Carbonate
LYRK260	303089	7391458	188	Carbonate
LYRK261	303051	7391428	186	Carbonate
LYRK262	303024	7391402	185	Carbonate
LYRK263	302985	7391405	180	Carbonate
LYRK264	303120	7391217	181	Carbonate
LYRK265	303185	7391202	182	Carbonate
LYRK266	303310	7390886	179	Carbonate
LYRK267	303279	7390856	181	Carbonate
LYRK268	303389	7390518	184	Carbonate
LYRK269	302190	7392856	191	Carbonate
LYRK270	302072	7392732	193	Carbonate
LYRK271	301863	7392617	195	Carbonate
LYRK272	301862	7392617	195	Carbonate
LYRK273	302225	7392576	190	Carbonate
LYRK274	302335	7392547	193	Carbonate
LYRK275	302278	7392443	189	Carbonate
LYRK276	302189	7392418	190	Carbonate
LYRK277	302102	7392365	198	Carbonate
LYRK278	302038	7392324	197	Carbonate
LYRK279	301969	7392270	197	Carbonate
LYRK280	301926	7392192	195	Carbonate
LYRK281	301885	7392126	195	Carbonate
LYRK282	301849	7392086	196	Carbonate
LYRK283	301797	7392033	194	Carbonate
LYRK284	301750	7391963	197	Carbonate
LYRK285	301746	7391873	199	Sandstone
LYRK286	301852	7391756	199	Carbonate
LYRK287	301907	7391700	198	Carbonate
LYRK288	302013	7391823	198	Carbonate
LYRK289	302172	7392009	198	Carbonate
LYRK290	302145	7391317	199	Carbonate
LYRK291	302208	7391343	197	Carbonate
LYRK292	302283	7391392	198	Carbonate
LYRK293	302396	7391540	202	Carbonate
LYRK294	302539	7391626	204	Carbonate
LYRK295	302649	7391729	203	Carbonate
LYRK296	302712	7391793	194	Carbonate
LYRK297	302784	7391861	192	Carbonate
LYRK298	302831	7391893	191	Carbonate
LYRK299	307392	7381238	217	Carbonate
LYRK300	304578	7386115	216	Carbonate
LYRK301	304727	7386027	220	Carbonate
LYRK302	304826	7385994	215	Carbonate
LYRK303	304950	7385936	217	Carbonate
LYRK304	305008	7385961	216	Carbonate
LYRK305	305072	7385986	214	Carbonate
LYRK306	307549	7381461	222	Carbonate
LYRK307	307600	7381483	223	Carbonate
LYRK308	307651	7381571	225	Carbonate
LYRK309	307711	7381641	223	Carbonate
LYRK310	307839	7381744	216	Carbonate

Sample ID	Easting	Northing	RL (m)	Description
LYRK311	307940	7381950	212	Carbonate
LYRK312	308059	7382082	213	Carbonate
LYRK313	308078	7382101	214	Carbonate
LYRK314	308110	7382161	218	Carbonate
LYRK315	308170	7382232	213	Carbonate
LYRK316	308229	7382290	214	Carbonate
LYRK317	308317	7382388	214	Carbonate
LYRK318	308183	7382124	215	Carbonate
LYRK319	303383	7383513	211	Carbonate
LYRK320	307076	7385624	204	Carbonate
LYRK321	307150	7385685	206	Carbonate
LYRK322	307151	7385685	206	Carbonate
LYRK323	307183	7385725	204	Carbonate
LYRK324	307184	7385725	204	Carbonate
LYRK325	307261	7385747	207	Carbonate
LYRK326	307424	7385733	204	Carbonate
LYRK327	307523	7385709	205	Carbonate
LYRK328	315128	7382989	236	Breccia
LYRK329	315184	7382957	244	Breccia
LYRK330	315249	7382918	247	Breccia
LYRK331	315196	7383006	241	Granite
LYRK332	315214	7383239	236	Breccia
LYRK333	315172	7383146	240	Breccia