

# Mining Management Exploration Activities

## Northern Territory of Australia – Mining Management Act 2001

It is recommended that the Mining Management Plan (MMP) is completed in conjunction with the user guide available on the [Northern Territory Government website](#).

### Section 1 – Project Details

<b>Project Name</b> Provide new or existing project name	Tanami Exploration Project
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<b>Authorisation Number</b> Insert existing authorisation number, where applicable	0458-04
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<b>Operator Name</b> Use ASIC-ABR registered name (if a company), or name of the applicant	Newmont Tanami Pty Ltd
<b>Operator ABN and ACN numbers</b>	ACN 007 688 093 ABN 39 007 688 093

<b>Location and Access Details</b> Include brief description of the location, access details, and distance to nearest town or community	<p>The Newmont Tanami Operations (NTO) are located in the Tanami Desert approximately 550km northwest of Alice Springs along the Tanami Highway. Exploration activities undertaken under the Tanami Exploration Project (TEP) are supported from the Granites (MLS8, 134-144) and Dead Bullock Soak (DBS, MLS154) mining operations.</p> <p>The Aboriginal Communities of Yuendumu and Lajamanu are the closest 'major' population centres to NTO, located 270km south-east and 350km north of the Granites respectively. The Yarturlu Yarturlu Outstation, which is intermittently occupied, is located approximately 700m from the south-eastern lease boundary of MLS8.</p> <p>Approximately 22 kilometers west of DBS is the homestead of the Tanami Downs Station, which occupies approximately 4,200 sq km that was returned to the traditional owners in December 1992 following the Mangkururpa Aboriginal Land Trust Claim. The Aboriginal Mungurrupa Outstation is located approximately 2.5 kilometers from the homestead and is infrequently occupied by the Traditional Owners.</p>
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<b>Target Commodity Details</b> Include target mineral commodities (i.e. gold, copper etc.)	Gold
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## Mining Management Exploration Activities

<p><b>Mining Activities</b> Summarise the mining activities (exploration) to be the subject of the proposed Authorisation or Variation.</p> <p>Drilling programs over a maximum of four years are supported and encouraged and can be staged. Please refer to the guidelines for further information.</p>	<p>The proposed mining activities to be conducted under the Variation to Authorisation 0458-04 consist of exploration for minerals and operations, and works in connection with the exploration for minerals across Exploration Licences shown in Figure 1. The exploration programs being progressed under the TEP consist of generative exploration prospect identification and investigation through to resource delineation and feasibility evaluations. The activities detailed herein are proposed for completion over the next two to three years, however this timeframe may be subject to change.</p> <p>The broader work programs detailed in this exploration Mining Management Plan (MMP) are focused on updating the geochemical baseline dataset across the tenement holding via Newmont's proprietary Deep Sensing Geochemistry (DSG) soil sampling technology. The highest ranked anomalies from the DSG programs are then investigated via reverse circulation (RC) and diamond drilling programs. Subject to the success of initial drilling programs more intensive assessments follow to delineate a resource, as has occurred for the Oberon deposit on EL23662.</p> <p>Drilling completed since 2018 of the Oberon prospect has focused on defining the deposit believed to be a resource in excess of 1.5 million ounces undergoing detailed feasibility evaluation, with an area of EL23662 becoming subject to mineral lease application (MLA32322) in 2019. The key programs of work for Oberon continue to consist of exploration, geotechnical and hydrogeological drilling programs and environmental assessments to facilitate the continued development of the prospect through project feasibility and environmental/social impact assessments.</p>
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<p><b>Proposed Schedule</b> Include start and finish dates of ground disturbing work</p>	<p>The broader generative exploration program conducted across the tenement holdings will primarily be undertaken between March and November annually in avoidance of the wet season and associated access impediments.</p> <p>The progression of the Oberon programs will be year round to support the project feasibility evaluation schedule although also biased for the March to November period when access is generally not limited.</p>
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## Mining Interest and Land Ownership

List the mining interests (titles), the title holder name/s, the title expiry date and the Property name/Land holder (e.g. pastoralist or Aboriginal land trust) for each title.

Title Number	Title Holder	Expiry Date	Underlying Property Name or Land Holder
EL2366	Newmont Tanami Pty Ltd	31-12-2024	Central Desert Aboriginal Land Trust
EL2367	Newmont Tanami Pty Ltd	31-12-2024	Central Desert Aboriginal Land Trust
EL4529	Newmont Tanami Pty Ltd	31-12-2024	Central Desert Aboriginal Land Trust
EL8077	Newmont Tanami Pty Ltd	02-01-2024	Mangkururpa Aboriginal Land Trust
EL8912	Newmont Tanami Pty Ltd	07-09-2023	Central Desert Aboriginal Land Trust
EL9737	Newmont Tanami Pty Ltd	19-08-2023	Central Desert Aboriginal Land Trust
EL9996	Newmont Tanami Pty Ltd	19-08-2023	Central Desert Aboriginal Land Trust
EL10138	Newmont Tanami Pty Ltd	05-06-2023	Mangkururpa Aboriginal Land Trust
EL22170	Newmont Tanami Pty Ltd	19-08-2023	Central Desert Aboriginal Land Trust
EL22900	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL22933	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL23150	Newmont Tanami Pty Ltd	28-07-2023	Mangkururpa Aboriginal Land Trust
EL23308	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL23658	Newmont Tanami Pty Ltd	31-03-2023*	Central Desert Aboriginal Land Trust
EL23660	Newmont Tanami Pty Ltd	31-03-2023*	Central Desert Aboriginal Land Trust
EL23662	Newmont Tanami Pty Ltd	31-03-2023*	Central Desert Aboriginal Land Trust/ Mangkururpa Aboriginal Land Trust
EL23744	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL23833	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24864	Newmont Tanami Pty Ltd	30-12-2024	Mangkururpa Aboriginal Land Trust
EL24865	Newmont Tanami Pty Ltd	30-12-2024	Mangkururpa Aboriginal Land Trust
EL24886	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24888	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24889	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24890	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24895	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24896	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust

## Mining Management Exploration Activities

Title Number	Title Holder	Expiry Date	Underlying Property Name or Land Holder
EL24973	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL24974	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL25012	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust/ Mangkururupa Aboriginal Land Trust
EL25013	Newmont Tanami Pty Ltd	30-12-2024	Central Desert Aboriginal Land Trust
EL30806	Newmont Tanami Pty Ltd	31-12-2024	Central Desert Aboriginal Land Trust

*\*Renewal applications have been submitted to the regulator*

## Organisational Structure

Position Title	Name
Regional Senior Vice President – Australia	Mia Gous
General Manager	Justin De Meillon
Exploration Manager (Regional)	Philippa Sivwright
Mine Exploration Manager	Matthew Baggott
Mine Exploration Superintendent	Erin Hart
Sustainability & External Relations Manager	Seth McCann
Manager, Sustainability & External Relations – Exploration, Regional Projects and Closure	Jarrod Riley
Principle Advisor Permitting – Major Projects	Stephanie Myles

# Mining Management Exploration Activities

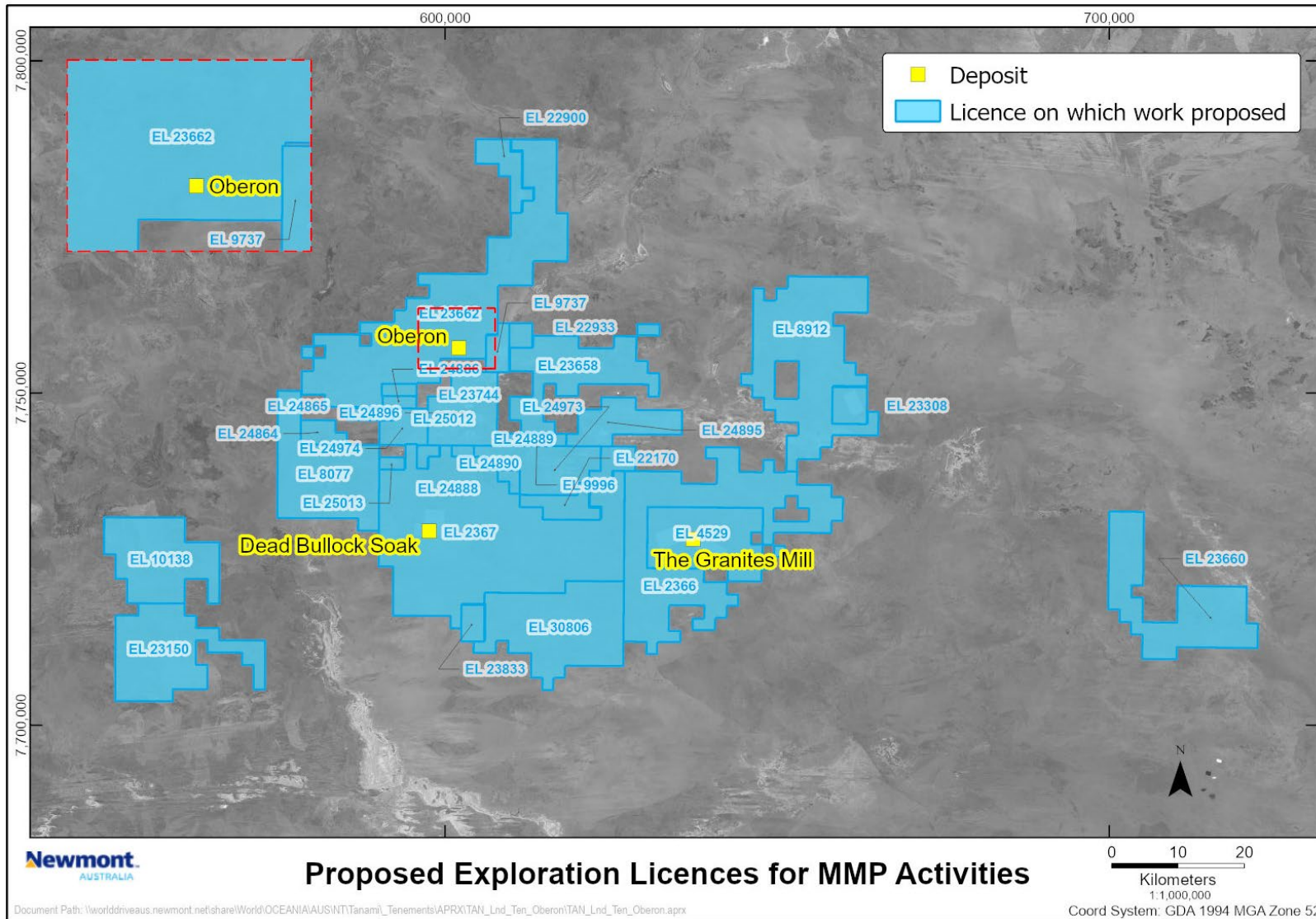


Figure 1 - Tanami Exploration Project 2023/24 Exploration Tenement Activity

# Mining Management Exploration Activities

## Section 2 – Operator Self-Assessment of the Environmental Risk

The purpose of this self-assessment is to ensure Operators complete a project risk assessment of potential environmental impacts and are aware of other legislative obligations from various Agencies. As a result of this self-assessment, further information may be required in the form of a management plan to enable full assessment of the MMP. If you have any queries please contact a Mining Officer prior to submitting the MMP. Useful resources to assist with this self-assessment are provided in the User Guide.

### Environmental considerations

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION <small>(e.g. evidence of consultation with DEPWS and/or management plan where required).</small>
<b>Step 1:</b> Are there any threatened flora and fauna species or habitats of significance that may occur in the proposed work area?	Yes	The Operator must assess the likelihood of threatened species or their habitats occurring at or near the site. If the likelihood is high, then a “Significant Impact Assessment” must be undertaken and appended to this document.	Biodiversity and Land Management Plan
<b>Step 2:</b> Are there any known declared weeds within the proposed work area?	No	Seek advice from DEPWS – Weed Management Branch to determine if weeds are present on site and ensure management measures are appropriate for the level of activity proposed and attach a Weed Management Plan (if required).	Biodiversity and Land Management Plan

## Mining Management Exploration Activities

ASSESSMENT ASPECT	YES or NO	ACTIONS REQUIRED (if answered YES)	APPENDED INFORMATION <small>(e.g. evidence of consultation with DEPWS and/or management plan where required).</small>
<b>Step 3:</b> Will you be using water from bores or other sources for the operation?	Yes	Water related matters on mineral titles are no longer exempt from the <i>Water Act 1992</i> . Please consult with DEPWS Water Resources and/or familiarise yourself with the <i>Water Act</i> to ensure compliance under this Act when undertaking exploration activities.	In accordance with the <i>Water Act 1992</i> , 18 March 2021 Revocation of Declarations and Declarations of Exemptions; water licences will be applied for abstraction from bores as required in 2023 in consultation with DEPWS. Previous supply abstracted from these sources were below the former 15L/sec threshold. Water permits will be applied for, if required, for any aquifer re-injection trials which may be completed at Oberon.

### Environmental assessment and cultural considerations

ASSESSMENT ASPECT	YES or NO	MANAGEMENT REQUIREMENTS
<b>Step 4:</b> Is your project likely to have a significant impact on the environment?	No	Refer to the NTEPA Environmental Factors and Objectives Guideline.
<b>Step 5:</b> Are there Aboriginal sacred sites in the Project area?	Yes	Based on Agreement with the Central Land Council this information is confidential and therefore not disclosed.  Exploration activities are managed in accordance with our Agreements with the CLC which require assessment and approval of Sacred Site Clearance Certificate applications. By the CLC and Traditional Owners.
<b>Step 6:</b> Are there archaeological and heritage sites in the Project area?	No	A search of the NT Heritage Register has indicated no heritage sites present in the area.

### Section 3 – Amendments

As per Section 41(3) of the *Mining Management Act*, an MMP reviewed and amended under Section 41(1)(a) is to have amendments made since the previous MMP submission clearly identified.

Section	Amendment
Entire Document	Continues to reflect document template released 23 March 2021
Section 1	Updated expiry dates for tenements. Updated 'Organisational Structure'.
Section 4	Activities proposed updated for 2023-2025 scope Note some activities listed were approved in the previous TEP MMP and these have been carried over into the next three years.
Section 5	Previous disturbance record updated to reflect 2021 and 2022 work on regional exploration tenements and Oberon works and attached separately
Section 6	No change
Section 7	Minor additional discussion regarding rehabilitation works in 2022 and surveys occurring at Oberon
Section 8	Updated Figures

Delete or add rows as required

# Mining Management Exploration Activities

## Section 4 – Activities Proposed for this MMP only

Drilling type relates to diamond core, RC and RAB / Aircore. A larger volume of holes generally denotes a likely RAB/AC program. Assessment scope for EL23662 has been categorised as works proposed within the MLA32322 footprint and works proposed for the remaining EL23662 licence area. Note exploration tenements EL2366, EL4529, EL8077, EL8912, EL9737, EL9996, EL22170, EL22933, EL23150, EL23660, EL24886, EL24888, EL24895, EL24896, EL24973, EL24974, EL30806 have works approved for 2023 under the previous MMP submitted and approved in 2021. Only additional works for 2023 have been included here.

Mining Interest	EL2366			EL2367			EL4529			EL8077		
	2023	2024	2025	2023	2024	2025	2023*	2024	2025	2023	2024	2025
Target commodity	-	Gold	Gold	Gold	Gold	-	-	Gold	Gold	Gold	Gold	Gold
Maximum depth of holes (m)	-	1,000	1,000	1,000	1,000	-	-	300	300	250	250	250
Number of holes to be drilled	-	10	10	43	33	-	-	54 <sup>#</sup>	4	20	20	10
Total metres to be drilled (m)	-	5,000	5,000	8760	8760	-	-	7,200	2,200	2,000	2,000	1,164
Number of drill pads to be cleared	-	10	10	43	33	-	-	24	4	20	20	10
Test pits (450 m <sup>2</sup> )	-	-	-	110	-	-	50	150	-	-	-	-
Number of sumps to be cleared (volume m <sup>3</sup> )	-	20 (360)	20 (360)	38 (684)	37 (666)	-	-	24 (432)	4 (64)	8 (144)	8 (144)	0
Number of camp pads to be cleared (40m x 40m)	-	-	-	-	-	-	-	-	-	-	-	1
Total drill and camp pad area to be disturbed (hectares)	-	1.6	1.6	5.28	5.28	-	-	3.84	0.64	3.2	3.2	1.76
Length of historic tracks to be re-established (length x width m)	-	-	-	-	-	-	7,900 x 4	-	-	-	-	-
Length of new tracks to be established (length x width m)	-	8,500 x 4	8,500 x 4	12,000 x 4	8050 x 4	-	16,100 x 4	2,000 x 4	2,000 x 4	10,000 x 4	10,000 x 4	5,750 x 4
Total track area to be disturbed (hectares)	-	3.40	3.40	4.80	3.22	0.00	9.60	0.80	0.80	4.00	4.00	2.30
Drill holes to be capped / plugged	-	10	10	65	15	-	-	24	24	20	20	20
Total area to be rehabilitated (ha)	-	5.00	5.00	11.68	8.50	0.00	9.60	4.64	1.44	7.20	7.20	4.06

<sup>#</sup>See section 4.1 below – additional works for 2023 relate to the TSF investigation work

## Mining Management Exploration Activities

Mining Interest	EL8912			EL9737			EL9996			EL22170		
Year	2023	2024	2025	2023	2024	2025	2023	2024	2025	2023	2024	2025
Target commodity	Gold	Gold	Gold	-	Gold	Gold	-	Gold	Gold	Gold	Gold	Gold
Maximum depth of holes (m)	250	-	-	-	250	250	-	250	250	250	-	-
Number of holes to be drilled <sup>1</sup>	15	10	-	-	10	10	-	20	16	5	-	-
Total metres to be drilled (m)	2,750	2,500	-	-	2,000	2,000	-	2,000	1,600	1,250	-	-
Number of drill pads to be cleared	15	10	-	-	10	10	-	20	16	5	-	-
Number of sumps to be cleared (volume m <sup>3</sup> )	15 (270)	10 (180)	-	-	4 (72)	4 (72)	-	8 (144)	0	4 (72)	-	-
Number of camp pads to be cleared (40m x 40m)	0	-	-	-	-	-	-	-	-	-	-	-
Total drill and camp pad area to be disturbed (hectares)	2.4	1.6	-	-	1.6	1.6	-	3.2	2.56	0.8	-	-
Length of historic tracks to be re-established (length x width m)	-	-	-	-	-	-	-	-	-	-	-	-
Length of new tracks to be established (length x width m)	-	25,000 x 4	5,880 x 4	-	2,000 x 4	2,000 x 4	-	2,000 x 4	1,000 x 4	-	5,000 x 4	5,000 x 4
Total track area to be disturbed (hectares)	0	10	2.35	0	0.8	0.8	0	0.8	0.4	0	2	2
Drill holes to be capped / plugged	5	-	-	-	10	10	-	20	20	5	-	-
Total area to be rehabilitated (ha)	2.40	11.60	2.35	0.00	2.40	2.40	0.00	4.00	2.96	0.80	2.00	2.00

## Mining Management Exploration Activities

Mining Interest	EL22933			EL23150			EL23658			EL23660		
	2023	2024	2025	2023	2024	2025	2023	2024	2025	2023	2024	2025
Target commodity	-	Gold	Gold	-	Gold	Gold	-	Gold	Gold	-	Gold	Gold
Maximum depth of holes (m)	-	250	250	-	1,000	1,000	-	1,000	1,000	-	1,000	1,000
Number of holes to be drilled	-	10	10	-	57	73	-	50	50	-	42	41
Total metres to be drilled (m)	-	2,000	2,000	-	41,210	43,600	-	10,000	10,000	-	6,924	6,920
Number of drill pads to be cleared	-	10	10	-	57	73	-	50	50	-	42	41
Number of sumps to be cleared (volume m <sup>3</sup> )	-	4 (72)	4 (72)	-	64 (1,152)	96 (1,728)	-	20 (360)	20 (360)	-	3 (54)	3 (54)
Number of camp pads to be cleared (40m x 40m)	-	-	-	-	-	-	-	-	-	2	-	-
Total drill and camp pad area to be disturbed (hectares)	-	1.6	1.6	-	9.12	11.68	-	8	8	-	6.72	6.56
Length of historic tracks to be re- established (length x width m)	-	-	-	-	-	-	-	-	-	-	-	-
Length of new tracks to be established (length x width m)	-	10,000 x 4	10,000 x 4	-	26,000 x 4	29,500 x 4	-	15,000 x 4	15,000 x 4	-	9,700 x 4	9,700 x 4
Total track area to be disturbed (hectares)	-	4	4	-	10.4	11.8	-	6	6	-	3.88	3.88
Drill holes to be capped / plugged	-	10	10	-	80	80	-	50	50	-	60	60
Total area to be rehabilitated (ha)	0	5.6	5.6	0	19.52	23.48	0	14	14	0	10.6	10.44

## Mining Management Exploration Activities

Mining Interest	EL23662			EL23744			EL24886			EL24888		
Year	2023	2024	2025	2023	2024	2025	2023	2024	2025	2023	2024	2025
Target commodity	Gold	Gold	-	Gold	Gold	-	-	Gold	Gold	-	Gold	Gold
Maximum depth of holes (m)	1,000	1,000	-	400	400	-	-	400	400	-	400	400
Number of holes to be drilled <sup>1</sup>	37	37	37	10	5	4	-	20	15	-	5	5
Water / Monitoring Bore	14	13	13	2	-	-	-	-	-	-	-	-
Total metres to be drilled (m)	7,308	7,308	7,308	2,334	2,334	2,334	-	5,000	4,328	-	2,000	2,000
Number of drill pads to be cleared	37	37	37	10	5	4	-	20	15	-	5	5
Number of sumps to be cleared (volume m <sup>3</sup> )	57 (1,032)	57 (1,032)	57 (1,032)	10 (180)	7 (56)	5 (90)	-	0	0	-	4 (72)	4 (72)
Number of camp pads to be cleared (40m x 40m)	2	-	-	-	-	-	-	-	-	-	-	-
Total drill and camp pad area to be disturbed (hectares)	5.92	5.92	5.92	1.6	0.8	0.64	0	3.2	2.4	0	0.8	0.8
Length of historic tracks to be re-established (length x width m)	-	-	-	-	-	-	-	-	-	-	-	-
Length of new tracks to be established (length x width m)	14,866 x 4	14,866 x 4	14,866 x 4	8,126 x 4	8,126 x 4	8,126 x 4	-	5,000 x 4	3,200 x 4	-	2,000 x 4	2,000 x 4
Total track area to be disturbed (hectares)	5.95	5.95	5.95	3.25	3.25	3.25	-	2.00	1.28	-	0.80	0.80
Drill holes to be capped / plugged	50	30	-	24	12	-	-	20	20	-	5	5
Total area to be rehabilitated (ha)	11.87	11.87	11.87	4.85	4.05	3.89	-	5.20	3.68	-	1.60	1.60

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Mining Interest	EL24895			EL24896			EL24973			EL24974		
Year	2023	2024	2025	2023	2024	2025	2023	2024	2025	2023	2024	2025
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold
Maximum depth of holes (m)	-	250	-	-	250	-	-	250	250	-	250	-
Number of holes to be drilled <sup>1</sup>	-	5	-	-	5	-	-	12	12	-	5	-
Total metres to be drilled (m)	-	1,250	-	-	1,250	-	-	1,103	1,103	-	1,250	-
Number of drill pads to be cleared	-	5	-	-	5	-	-	12	12	-	5	-
Number of sumps to be cleared (volume m <sup>3</sup> )	-	4 (72)	-	-	4 (72)	-	-	4 (72)	4 (72)	-	4 (72)	-
Number of camp pads to be cleared (40m x 40m)	-	0	-	-	0	-	-	-	-	-	-	-
Total drill and camp pad area to be disturbed (hectares)	-	0.8	-	-	0.8	-	-	1.92	1.92	-	0.8	-
Length of historic tracks to be re-established (length x width m)	-	-	-	-	-	-	-	-	-	-	-	-
Length of new tracks to be established (length x width m)	-	10,000 x 4	-	-	10,000 x 4	10,000 x 4	-	8,200 x 4	8,200 x 4	-	5,700 x 4	5,700 x 4
Total track area to be disturbed (hectares)	-	4	-	-	4	4	-	3.28	3.28	-	2.28	2.28
Drill holes to be capped / plugged	-	5	-	-	5	-	-	20	20	-	5	-
Total area to be rehabilitated (ha)	0	4.8	0	0	4.8	4	0	5.2	5.2	0	3.08	2.28

Mining Interest	EL30806		
Year	2023	2024	2025
Target commodity	-	Gold	Gold
Maximum depth of holes (m)	-	1,000	1,000
Number of holes to be drilled <sup>1</sup>	-	33	32
Total metres to be drilled (m)	-	3,935	3,934
Number of drill pads to be cleared	-	33	32
Number of sumps to be cleared (volume m <sup>3</sup> )	4 (72)	13 (234)	12 (216)
Number of camp pads to be cleared (40m x 40m)	1	-	-
Total drill and camp pad area to be disturbed (hectares)	-	5.28	5.12
Length of historic tracks to be re-established (length x width m)	-	-	-
Length of new tracks to be established (length x width m)	-	8,800 x 4	8,800 x 4
Total track area to be disturbed (hectares)	-	3.52	3.52
Drill holes to be capped / plugged	-	40	40
Total area to be rehabilitated (ha)	-	8.8	8.64

Following the completion of the 2021 field season a critical appraisal of exploration targets was undertaken to facilitate disturbance retention rationalisation and rehabilitation scope delineation. Newmont has commenced rehabilitation of drill sites created in 2021 (as well as progressing rehabilitation of older, historic drill sites) and this has continued for the remainder of 2022. As results are still being received regarding the 2022 drilling efforts, these sites remain open at this stage in anticipation of returning following assessment of results.

The retention of capped drill collars is preferred to facilitate down hole survey and geophysics assessment data collection to support drill results appraisal and interpretation.

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Mining Interest	MLA32322 (EL23662)																			
	Drilling type		Infill Drilling		Resource / Reserve Drilling		Sterilisation		Grade Control		Inventory		Hydrogeology		Geotech		Underground Decline		Total	
Year	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024	2023	2024
Target commodity	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Gold	Water	Water	Geotech	Geotech	Geotech / Water	Geotech / Water	-	-	-	-
Maximum depth of holes (m)	500	500	1,500	1,500	80	60	200	200	1,500	1,500	300	300	300	300	1,500	1,500	-	-	-	-
Number of holes to be drilled	25	10	80	150	210	90	370	120	85	50	15	4	25	25	20	10	830	459	-	-
Test Pits	-	-	-	-	-	-	-	-	-	-	-	-	50	50	-	-	50	50	-	-
Water / Monitoring Bore	-	-	-	-	-	-	-	-	-	-	20	20	-	-	20	10	40	30	-	-
Total metres to be drilled (m)	7500	2500	110000	150000	16200	5400	30000	12000	55000	45000	4000	4000	5000	5000	20000	10000	247,700	221,900	-	-
Number of drill pads to be cleared	1	10	75	110	210	90	1	20	80	50	20	20	25	25	20	10	432	335	-	-
Number of sumps to be cleared (volume m <sup>3</sup> )	75	30	230	330	210	90	93	50	240	150	20	20	50	50	60	30	978	750	-	-
Total drill pad area to be disturbed (hectares)	0.16	1.6	12	17.6	33.6	14.4	0.16	3.2	12.8	8	3.2	3.2	4	4	3.2	1.6	69.12	53.6	-	-
Length of new tracks to be established (length x width m)	50 x 4	500 x 4	3,000 x 4	3,000 x 4	140,000 x 4	33,368 x 4	1,000 x 4	1,000 x 4	5,000 x 4	1,200 x 4	5,600 x 4	5,600 x 4	2,000 x 4	2,000 x 4	2,000 x 4	1,000 x 4	158,650 x 4	47,668 x 4	-	-
Total track area to be disturbed (hectares)	0.02	0.2	1.2	1.2	56	13.35	0.4	0.4	2	0.48	2.24	2.24	0.8	0.8	0.8	0.4	63.46	19.07	-	-
Drill holes to be capped / plugged	25	10	80	150	210	90	370	120	85	50	-	-	25	25	-	-	795	445	-	-
Total area to be rehabilitated (ha)	0.18	1.8	13.2	18.8	89.6	27.75	0.56	3.6	14.8	8.48	5.44	5.44	4.8	4.8	4	2	132.58	72.67	-	-

Additional to the above activities further infrastructure related disturbance detailed below is sort for approval with the MLA32322 footprint:

- Use of up to three bore holes to provide water for surface drilling activities;
- Two 150m x 300m borrow pits to ~2.5m depth to source laterite material for road maintenance (9ha disturbance, to be accessed off other tracks provisioned above);
- Seven 70m x 140m turkeys nest water holding ponds (comparable to that already in-situ in the Oberon project area) to be utilised to contain groundwater intercepted or abstracted in association with drilling, hydrogeological investigations and pump testing (6.86ha);
- Construction of two 40m x 40m multi use concrete hard stands to an existing cleared area to allow for additional camp infrastructure (up to 14 camp container buildings including a core shed area);
- Figure 4 shows indicative work program for Oberon study for 2023/24 and Figure 5 shows 2022 hydrogeological drilling program and planned work for 2023/24.

# Mining Management Exploration Activities

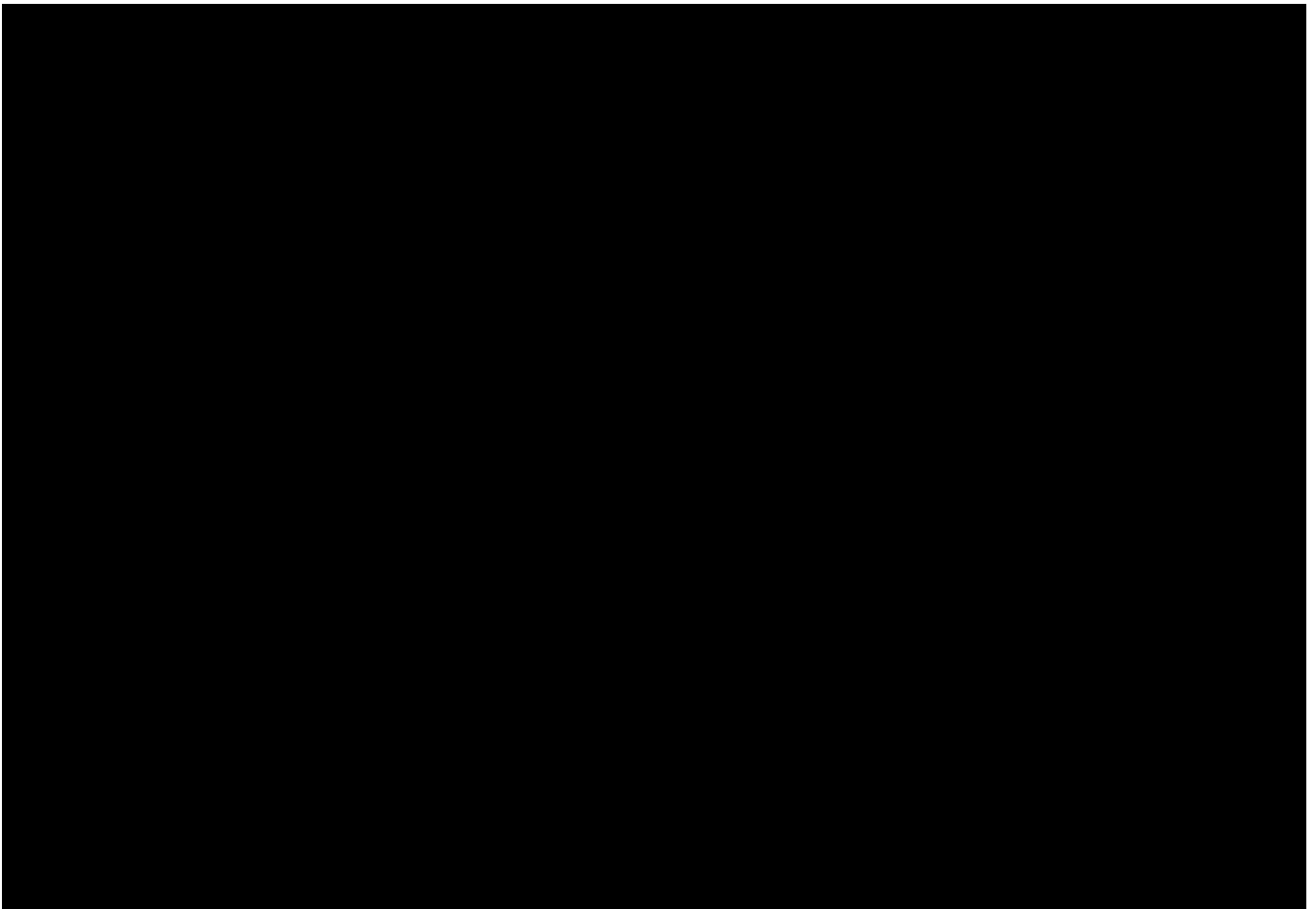
## 4.1 Geophysical and Geotechnical Programs

### MLA32322

A TSF location geotechnical investigation will be undertaken on EL23662 (Figure 2), mostly within MLA32322 in 2023 which will consist of:

- Drilling of three boreholes (to 30m depth or until contact with competent rock);
- Three test pits (3-4 m deep, samples to be collected for geotechnical testing); and
- A geophysical survey. Graded tracks may be required for the placement of the survey equipment. The laying of equipment requires vehicular access for laying of a land streamer or placement of monitoring spikes every 200m.

Wherever possible the drill sites and geophysical survey tracks will utilise those pads and tracks already established in 2022 for the hydrogeological drilling program.



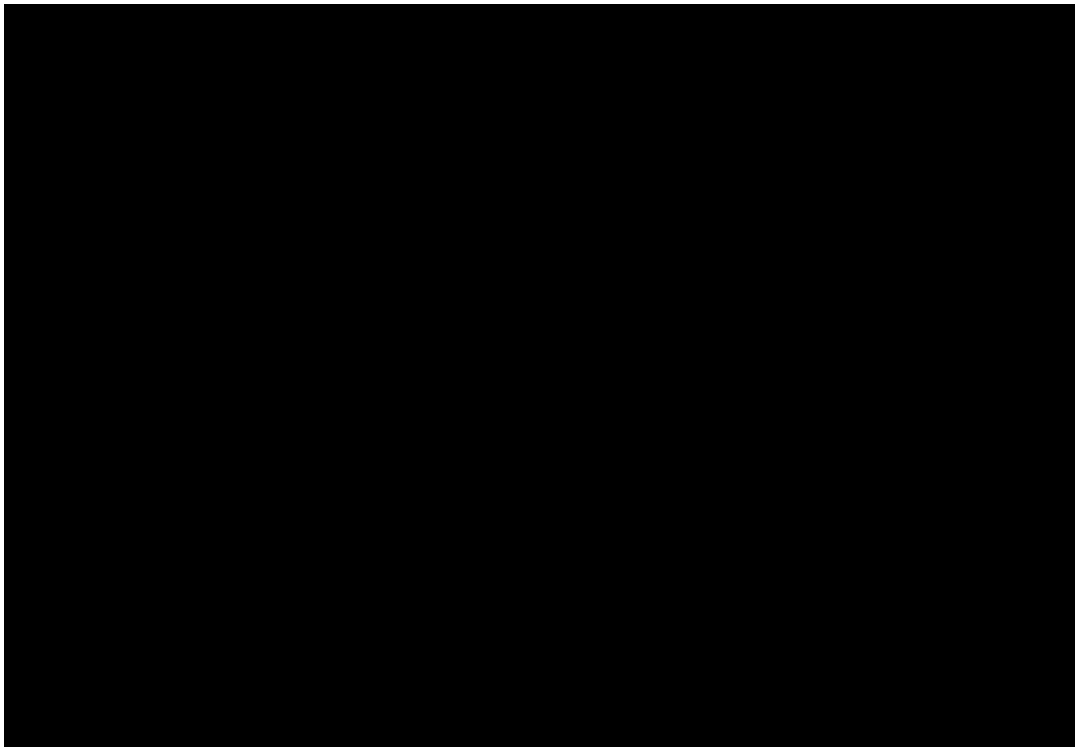
*Figure 2. Proposed location of geophysical survey and geotechnical investigation sites*

## EL4529

NTO is currently undergoing an options assessment for future tailings deposition to support the Granites processing operations. The land under assessment for the location of the future tailings storage facility (TSF) lies south of MLS8, on EL4529. NTO is currently progressing a mineral lease application area (MLA27957) which will cover the new TSF, however, is seeking approval to complete the following geophysical and geotechnical investigation program anticipated to be completed over 2023 and 2024 whilst MLA27957 footprint area is still subject to EL4529:

- Phase 1 (2023) Pre-selection of preferred TSF type
  - Geophysical testing which requires vehicle access and which pushes a small probe into the ground and uses vibration and magnetics to test the soil and rock.
  - Excavation of 50 test pits to confirm the soils, take small samples and test the permeability using water from a water truck. Permeability testing will be completed at 15 of these sites.
- Phase 2 (2024) Post-selection of preferred TSF type
  - Installation of 15 paired boreholes (30 in total) to 100m depth. This will allow for continuous samples, in-situ testing including SPT, packer testing and permeability testing.
  - Excavation of 150 test pits to confirm soils and test permeability using water from a water truck. Permeability testing will be completed at 15 of these locations.

The proposed geophysical testing lines are shown in Figure 3 and the disturbance area for both the new and previously disturbed tracks have been accounted for under the table of activities for EL4529.



*Figure 3. Proposed geophysical testing lines on EL4529 for future TSF investigation*

## EL2367

NTO has embarked on a renewable energy study for the operations. A combination of solar and wind power is currently being assessed for the Tanami, with the proposed infrastructure location in the southwest corner of MLS154 and on EL2367 (in the area shown on Figure 7). NTO anticipates

## **Mining Management Exploration Activities**

conducting a geotechnical investigation of this area in Q4 2023 to assess foundation requirements for wind and solar infrastructure.

At present, it is anticipated around 20 test pits will be required per 50MW of solar and one borehole and 15 test pits per wind turbine. At present the estimated work required for this program will consist of approximately 110 test pits and up to 10 geotechnical drill holes. All works will be backfilled and rehabilitated immediately following collection of relevant geotechnical data.

## **Section 5 – Previous Disturbance (for existing Authorisations only)**

The 'Disturbance Tracking' spreadsheet must be completed and attached to the MMP submission to complete this section. The spreadsheet is available on the departmental web page where this template is located.

## Section 6 – Environmental Management

By checking these shaded boxes, you are agreeing to implement the following minimum environmental management standards on the project area. Where boxes have been left unchecked, justification is required.

6.1	X	Blade-up approach for clearing will be used (i.e. no windrows, leave root stock and topsoil)
6.2	✓	Significant vegetation will be avoided during clearing (i.e. large trees, specimens providing habitat or food sources, riparian vegetation, and threatened species)
6.3	✓	Vegetation clearing during, and immediately after rainfall events, will be avoided
6.4	✓	Vegetation clearing will be kept to the minimum required to safely traverse vehicles and drill rigs along tracks and drill pads
6.5	✓	Where blade-up techniques cannot be employed, topsoil and vegetation will be stockpiled appropriately for rehabilitation purposes
6.6	✓	All employees and contractors will be trained and inducted in relation to the management of environmental risks in the work area, including weeds, waterways, threatened species, soil erosion, sacred sites and heritage areas
6.7	✓	Sumps will be lined or tanks of appropriate size to contain water, sediment and drilling fluids encountered during drilling, will be used
6.8	✓	Sumps, drill holes, and fuel stores will be located away from environmentally significant areas and water courses
6.9	✓	Excavations (sumps, costeans and pits) will be appropriately ramped to allow fauna egress
6.10	✓	Drill holes will be securely capped immediately after drilling
6.11	✓	Vehicle hygiene measures will be employed to prevent the introduction and spread of invasive species and pathogens when mobilising vehicles and equipment from one location to another
6.12	✓	Hydrocarbon spills will be minimised using liners and drip trays under machinery, and appropriately sized spill-kits available in the event of a spill
6.13	✓	Hazardous substances (including hydrocarbons) will be stored and handled in accordance with relevant Australian Standards
6.14	✓	Hydrocarbons will be stored in lined and bunded areas
6.15	✓	Waste will be stored securely while on-site to minimise windblown rubbish and access by feral animals
6.16	✓	Waste will be removed off-site and disposed of at an appropriate waste management facility
6.17	✓	All environmental incidents will be reported to the Department in accordance with Section 29 of the Mining Management Act.

## Mining Management Exploration Activities

6.18	✓	Acid and Metalliferous Drainage (AMD) and Potentially Acid Forming (PAF) material derived from drilling cuts will be managed to avoid AMD and PAF related issues on site.
6.19	✓	Radioactive/NORM drill cuttings will be managed to avoid radiation related issues on site.
6.20	✓	Dust management will be implemented on site, if becomes problematic or excessive.

**Justification and alternative management measures:**

6.1 Blade-up approach is not used; however, topsoil and vegetation is stockpiled and re-spread on rehabilitation of the drill pad.

6.16 Waste is removed and disposed of at the Granites or DBS landfill facilities in accordance with the Newmont Tanami Operations Waste Management Plan as approved under Authorisation 0086-02.

Free water and effluent water management to avoid subsidising pest animals:

- Effluent management at the camp at Oberon is managed via sprinkler irrigation as per previously approved Mining Management Plans. This negates any freestanding water access for pest animals.
- Free water that is extracted as a part of the exploration works program across the exploration leases and more specifically at the Oberon works program, where the Turkey's Nests are planned is non potable water that is classified as saline/hypersaline. This water quality does not meet the quality criteria for the ANZECC guidelines for livestock drinking water. Thus the quality of this water does not attract pest animal species.
- The requirement of the Turkey's nests for the Oberon project work program is to manage impacts of poor quality water on the surrounding environment, as opposed to direct discharging the water to the surrounding ground surface which would create water logging and accumulation of salt discharge in the area.

## Section 7 – Rehabilitation and Closure

By checking these shaded boxes, you are agreeing to implement the following minimum rehabilitation standards on the project area. Where boxes have been left unchecked, justification is required.

A refund of security related to completed rehabilitation on site requires the submission of a rehabilitation report including photographs, an updated security calculation and updated disturbance tracking spreadsheet to the Department.

7.1	✓	Drill holes will be plugged below ground level at a minimum depth of 0.4 metres and soil mounded to prevent subsidence, within 6 months of completion of drilling and collection of down hole survey.
7.2	✗	Drill holes encountering multiple or confined aquifers will be grouted with concrete.
7.3	✓	Drill samples/spoil will be returned down drill holes, buried in sumps, or removed from site.
7.4	✓	All drill hole and access markers including flagging tape, wooden markers and star pickets will be removed from site.
7.5	✓	Cut and fill drill pads will be re-contoured to be consistent with the surrounding terrain.
7.6	✓	Drill pads and compacted areas along the contour (on sloping ground) will be ripped/scarified of and tracks will be cross-ripped (zig-zag).
7.7	✓	Tracks will be rehabilitated, including pushing in all windrows, unless otherwise agreed in writing by the land holder or appropriate third party.
7.8	✓	Appropriate erosion and sediment controls will be installed where erosion is evident or likely to occur.
7.10	✓	Access through watercourses will be removed and banks restored.
7.11	✓	All previously disturbed areas will be stable, with no evidence of active soil erosion.
7.12	✓	All excavations will be backfilled within 6 months of their completion, with exception to where additional infill drilling will reutilise
7.13	✓	All water bores will be decommissioned unless otherwise agreed in writing by the land holder or appropriate third party.
7.14	✓	All rubbish and infrastructure will be removed from site.
7.15	✓	Topsoil will be replaced and vegetation re-established.
7.16	✓	Contaminated soils (e.g. hydrocarbon or hazardous chemicals) will be rehabilitated or removed from site.
7.17	✓	Monitoring will be undertaken following the wet season or a significant rainfall event.

Justification and alternative management measures:

7.2 – The exploration areas are not within a water controlled district and groundwater quality generally extends from saline to hypersaline. Artesian conditions, a primary indicator an aquifer is confined, has not been experienced when drilling in the exploration areas of the Tanami desert or with the NTO borefields and other operational based drilling activities. The identification of multiple or confined aquifer interceptions during drill can be difficult subject to drilling type and hydrogeological understanding of drilling crew and supervising geologist. Drill collars are proposed to be retained open for a period of 2 to 4 years post drilling.

Within the Oberon project area comprehensive aquifer investigations are underway to characterise and quantify the hydrogeological condition of mineralised area as well as the adjacent calcrete aquifers that are being considered and evaluated as possible receiving systems for aquifer reinjection of dewatered groundwater. To date, no artesian conditions have been observed from drilling activities at Oberon.

On the rare occasion a confined aquifer is identified during exploration activities in the Tanami Desert, Newmont will comply with the relevant condition outlined in the exploration authorisation.

### Oberon Rehabilitation Activities 2022

Although the Oberon prospect is currently undergoing a pre-feasibility evaluation and mineral lease application (MLA32322, Figure 2), rehabilitation of drilling activities is occurring concurrently. Activities during 2022 included the rehabilitation of 165 sumps and the cutting and capping of 253 drill collars. Balton Rex used a 14-tonne excavator to complete the sump rehabilitation. Any remanent drill materials in the sumps (liners and drill fines) were removed and transported to the appropriate waste facility at the Dead Bullock Soak mine. Bunding material from around the sumps was pushed into the opening and compacted until the material was level with the surrounding surface topography.

A field survey was conducted in December 2021 to assess the success of drill sites which were rehabilitated on the Oberon Exploration Licence in 2013. Many of these sites have been re-disturbed with the most recent drilling campaign. However, those which have remained undisturbed since rehabilitation showed re-vegetation appearing consistent with the time and climatic conditions experienced since the initial works in 2013 (LES, 2021). The areas around each drill site were stable and impacts on soil from erosion was minimal across all sites. Some minor sump hole depressions were still visible but these were not seen to pose a threat to overall soil stability or vegetation re-growth. No declared weeds were observed during the study, however, three buffel grass (*C. ciliaris*) plants were removed from two of the rehabilitation sites. These sites will be monitored for buffel grass in the future.

Ten costeans on EL2367 were rehabilitated over December 2021 – January 2022. The closure and reclamation work records for these is provided at Appendix 3.

## Section 8 – Required Attachments

8.1	✓	Initial Application for Authorisation or variation of Authorisation (only if details on the form have subsequently changed).
8.2	✓	Nomination of Operator Form, where required
8.3	✓	Security Calculation Spreadsheet
8.4	X	Evidence of Land Access Agreement if operating on an Exploration Licence (EL) on Pastoral Lease (e.g. two-ways exchange of email)
8.5	✓	Disturbance tracking spreadsheet (for existing Authorisations)
8.6	✓	Spreadsheet with coordinates of proposed drill holes or polygons of target areas
8.7	✓	KML/shape files/track logs of proposed tracks, camp sites and proposed drill holes or polygons of target areas
8.8	✓	Map(s) of the work area(s) showing: <ul style="list-style-type: none"> <li>1. title boundaries and title numbers</li> <li>2. current and proposed drill holes, or polygons of target areas</li> <li>3. current and proposed tracks</li> <li>4. rehabilitated areas</li> <li>5. camp sites</li> <li>6. heritage sites or significant environmental areas</li> <li>7. environmental constraints</li> </ul>
8.10	X	Radiation Management Plan (if applicable)
8.12	✓	Document(s) being appended in relation to Section 2 (if any): <ul style="list-style-type: none"> <li>- Oberon Demob costs</li> <li>- Biodiversity and Land Management Plan</li> <li>-Closure and Reclamation Work Record</li> </ul>

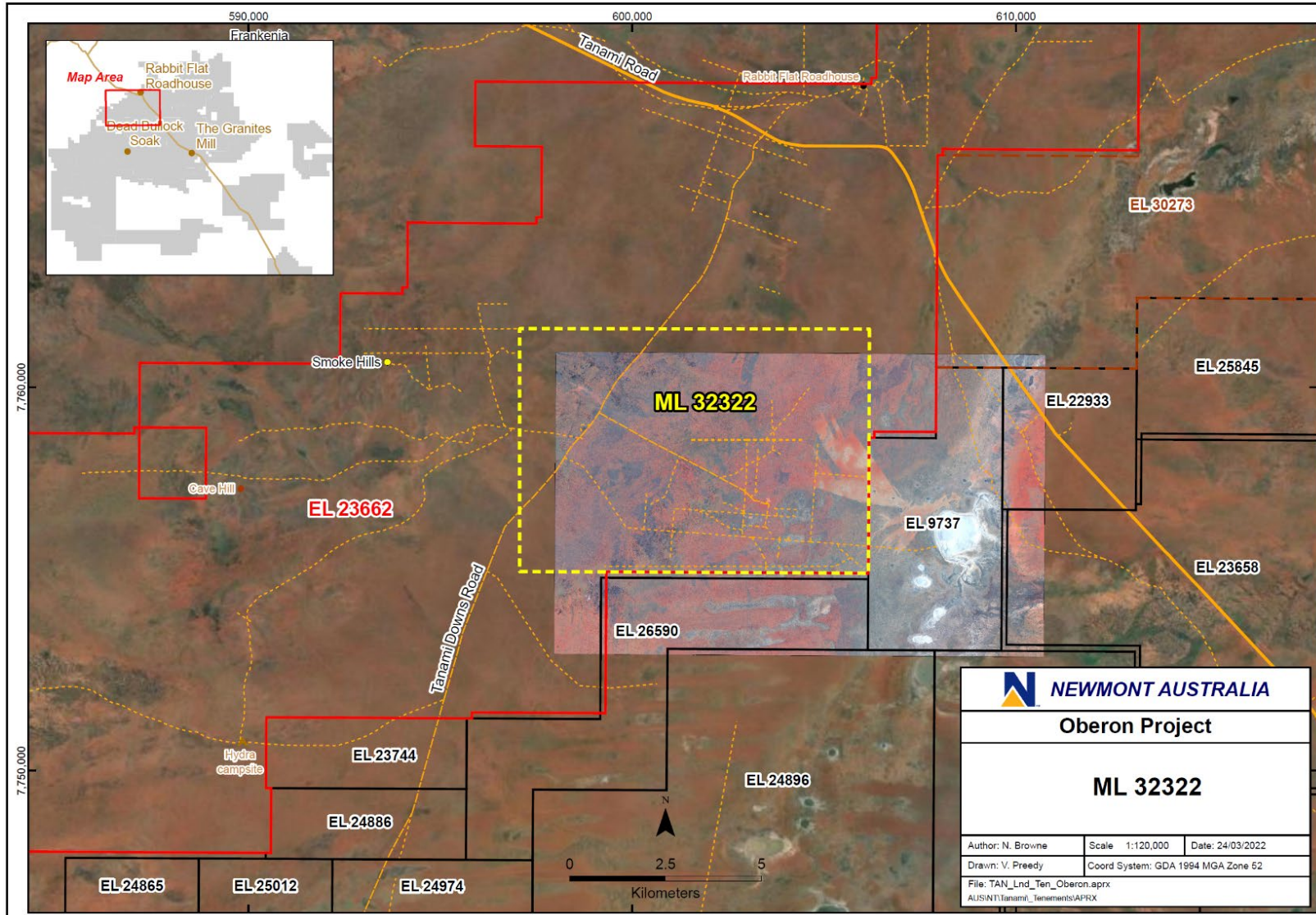
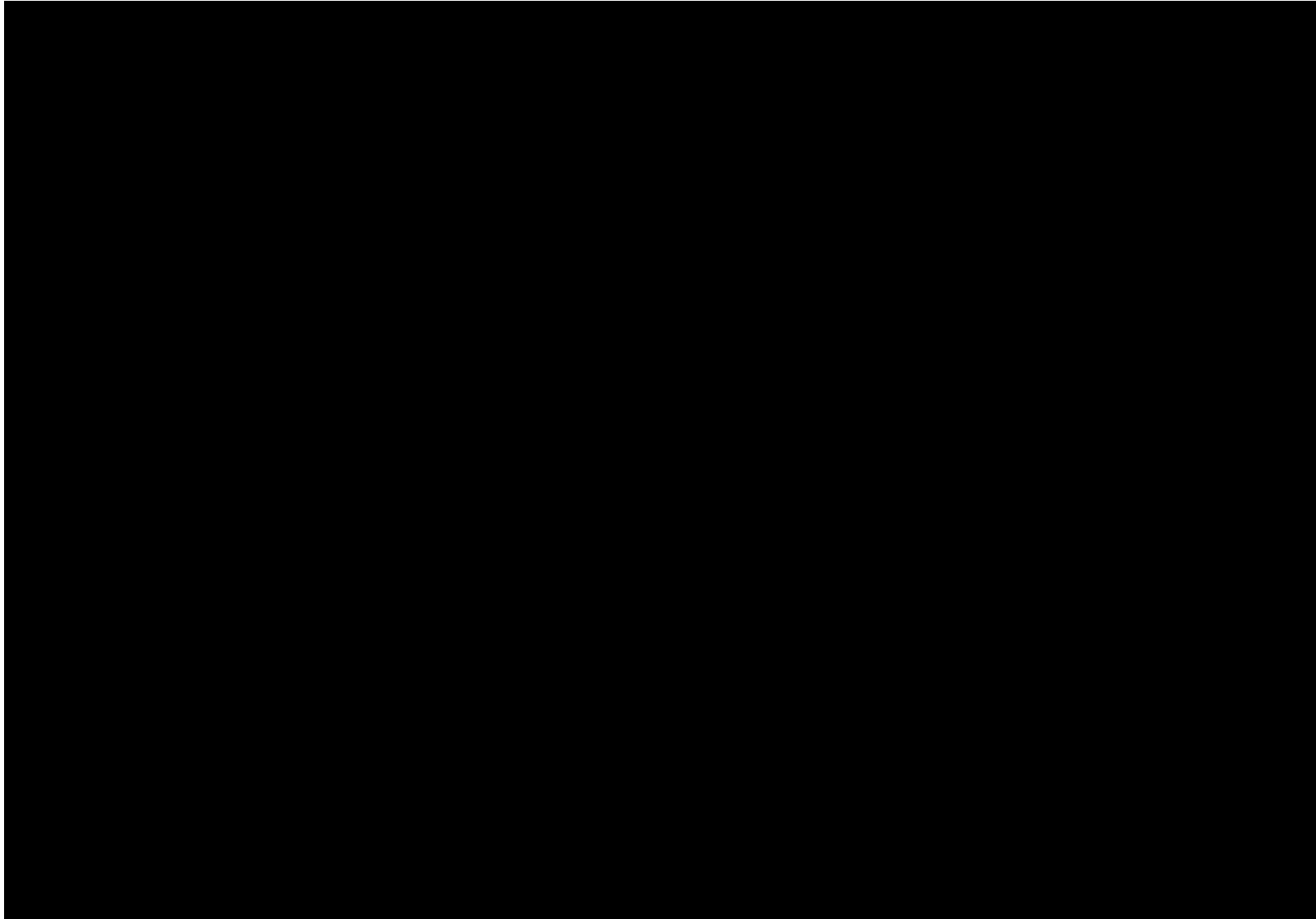
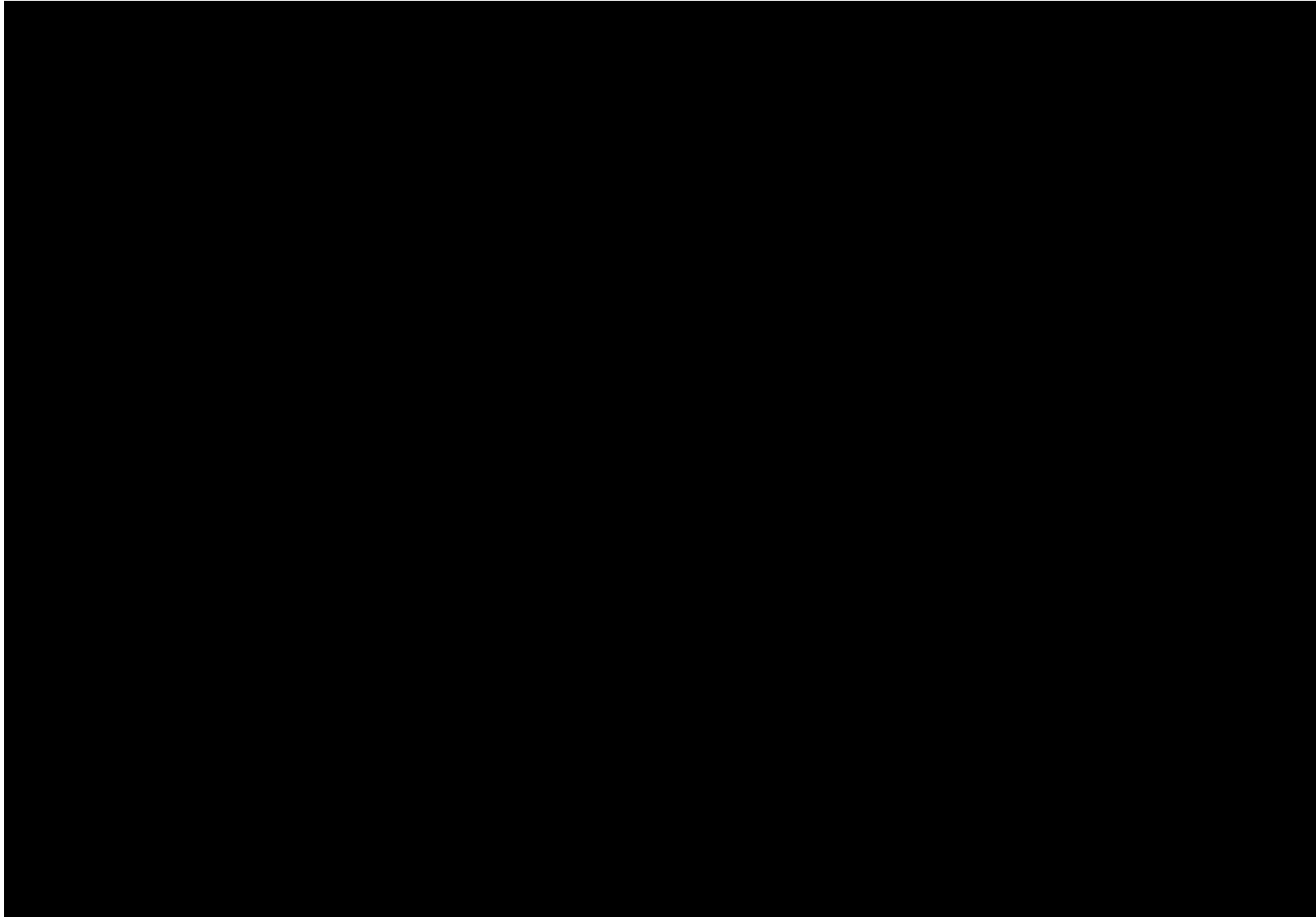


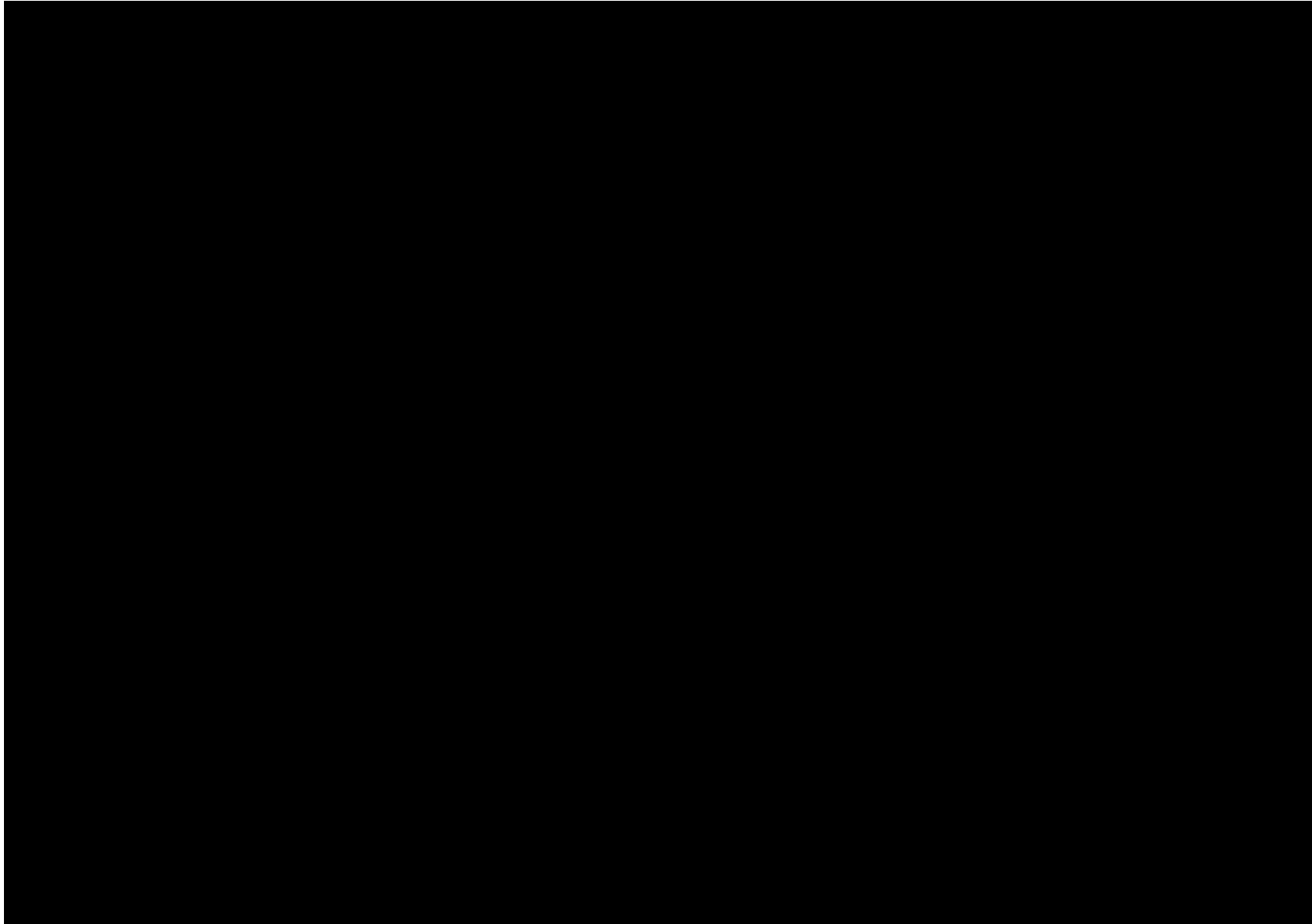
Figure 4 – Showing ML application area 32322 for Oberon prospect



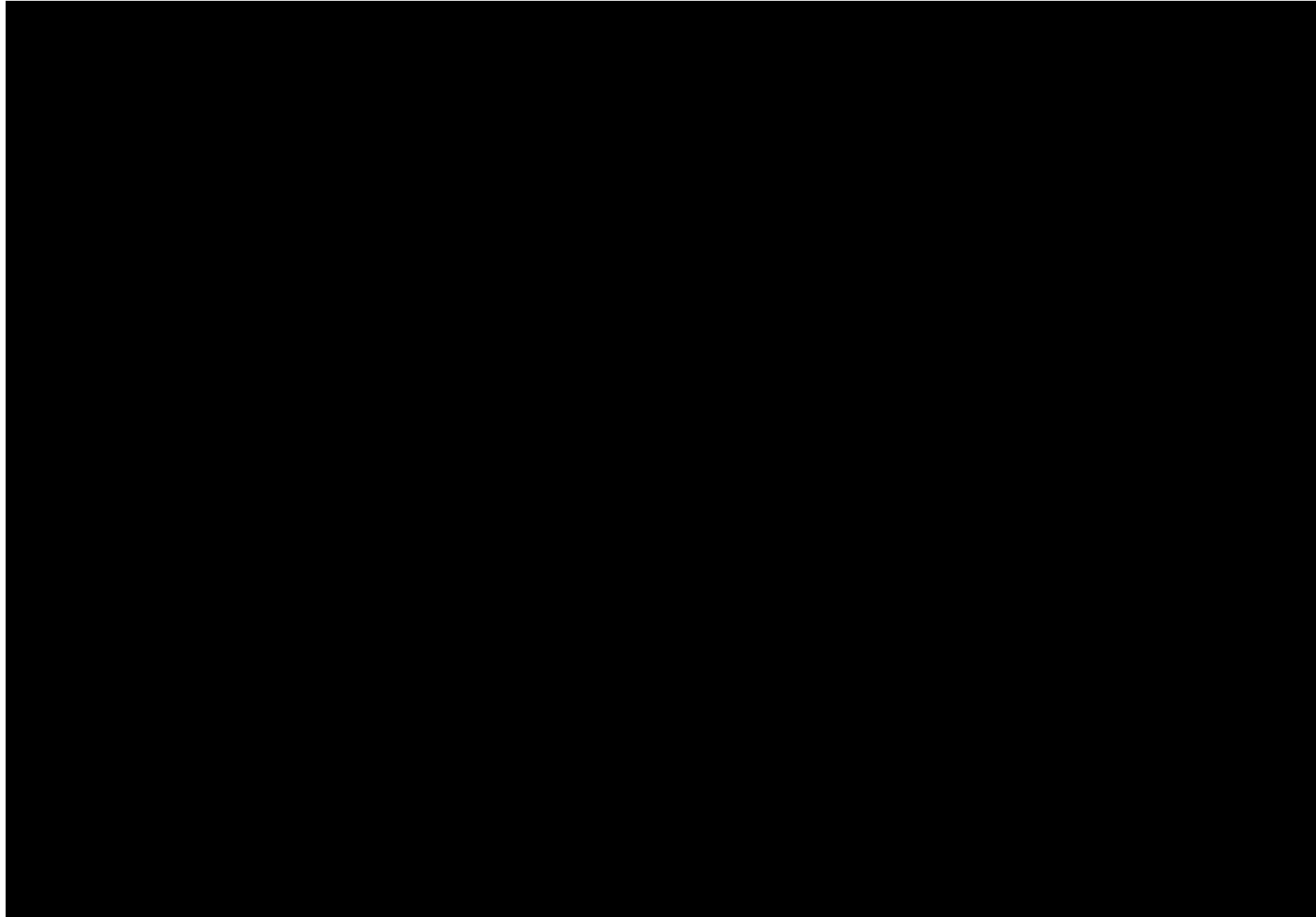
*Figure 5 – 2023/24 Proposed Oberon Work Programs*



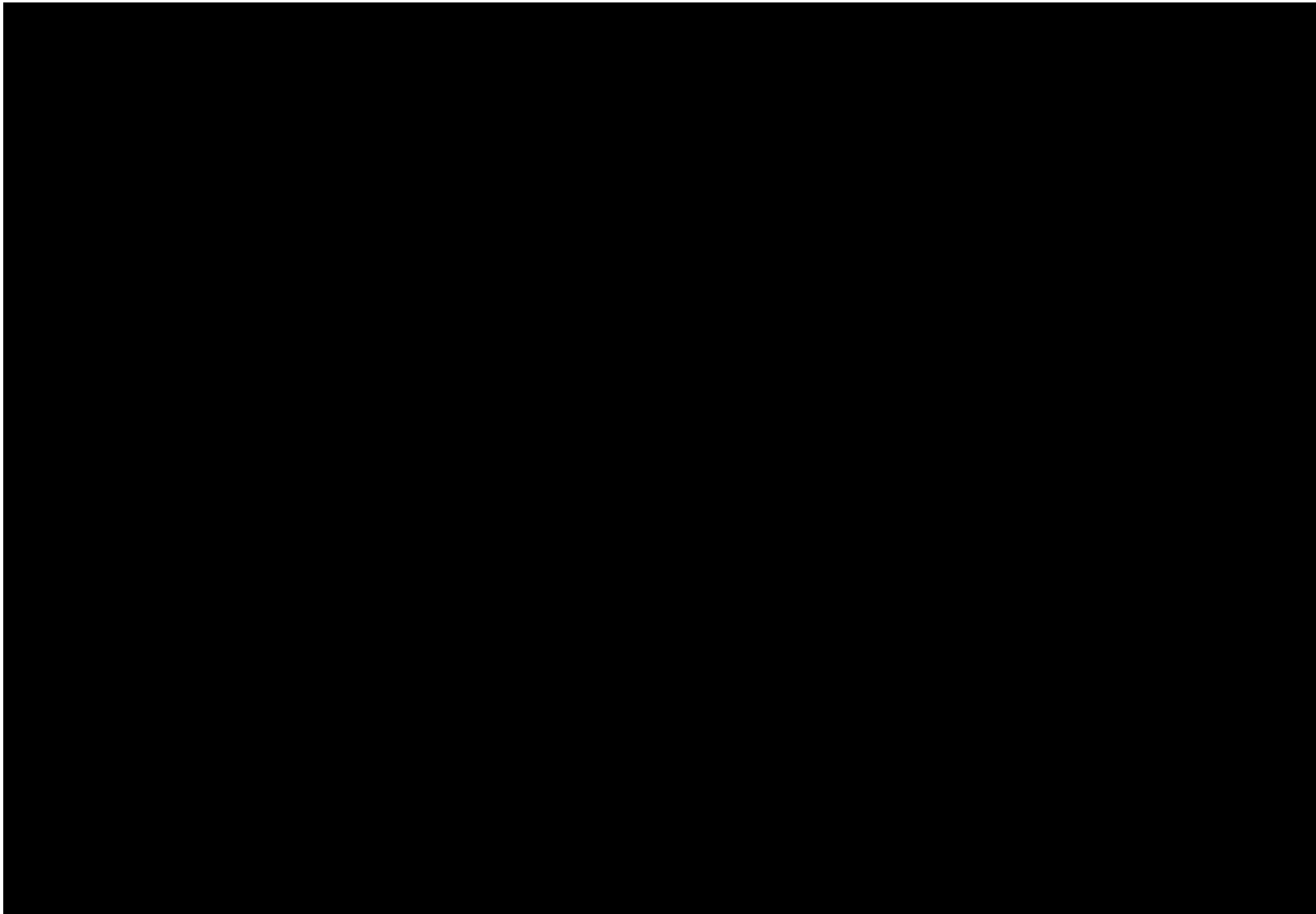
*Figure 6 – Oberon Hydrogeological Drilling Program (completed 2022 and planned 2023/24). Note: some planned bores extend to EL26590 which will be included in a separate approval. Included here for completeness*



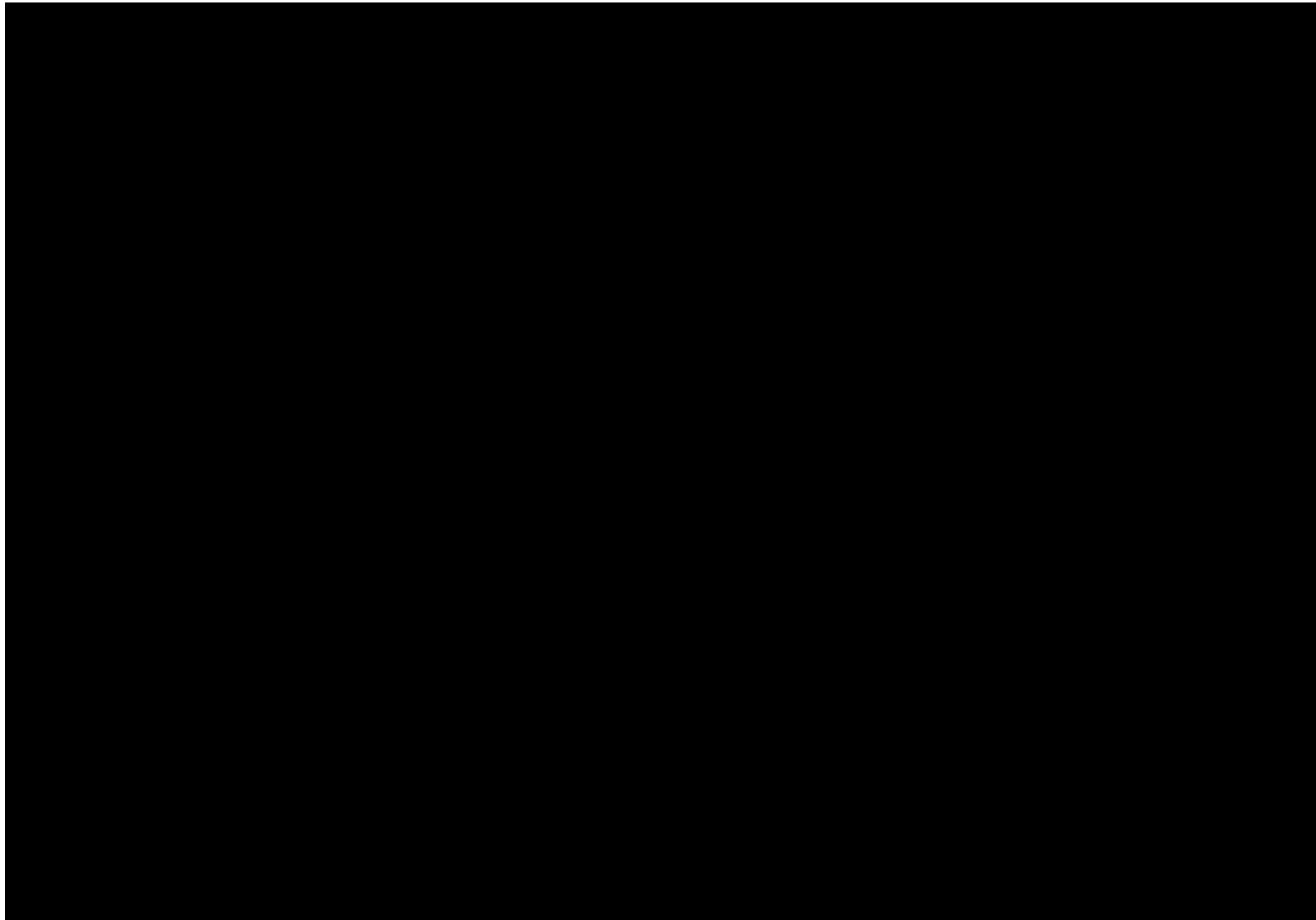
*Figure 7 - Proposed Work Area for the Symington Project Area*



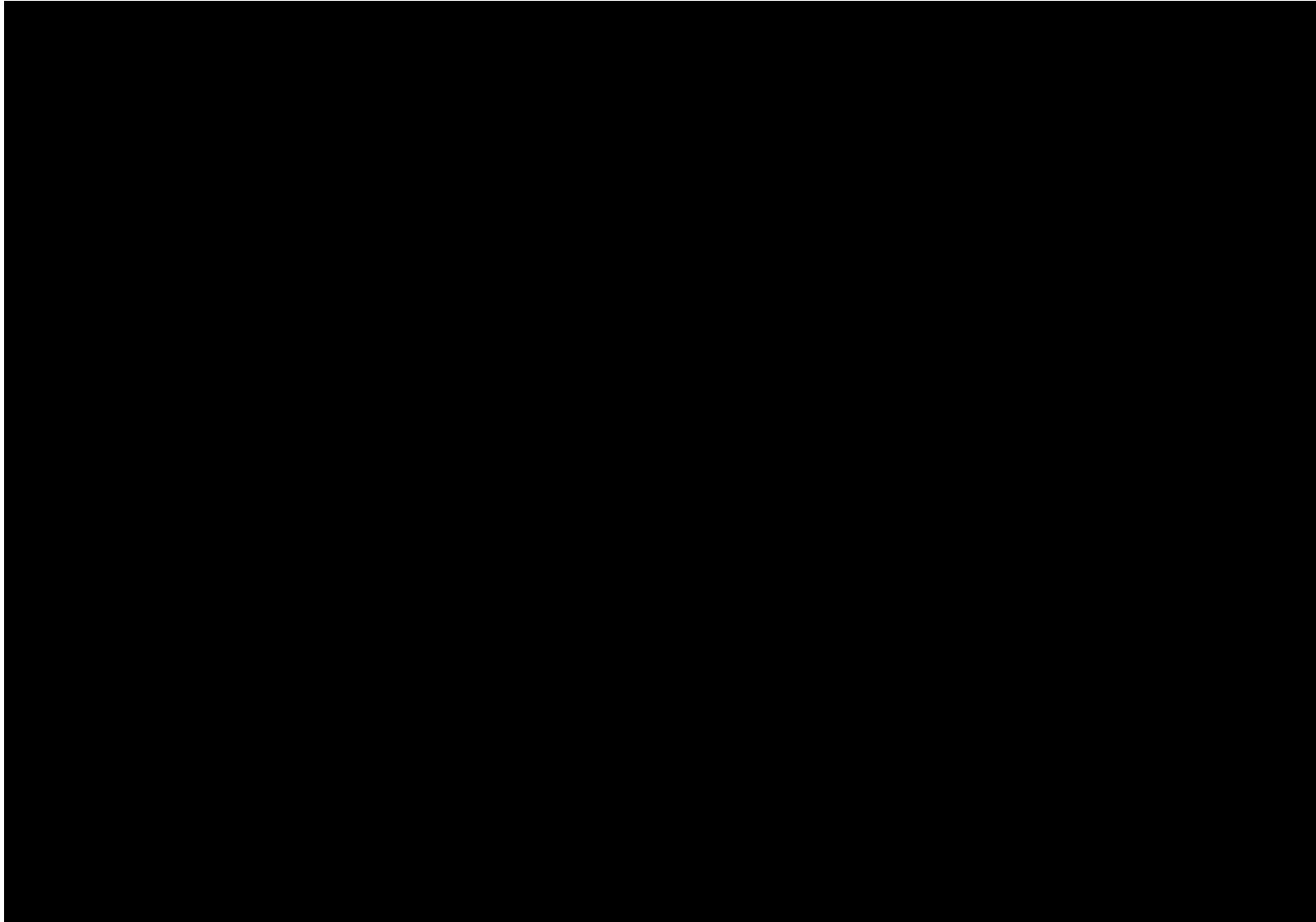
*Figure 8 - Proposed Work Area for the Rainmaker Project Area*



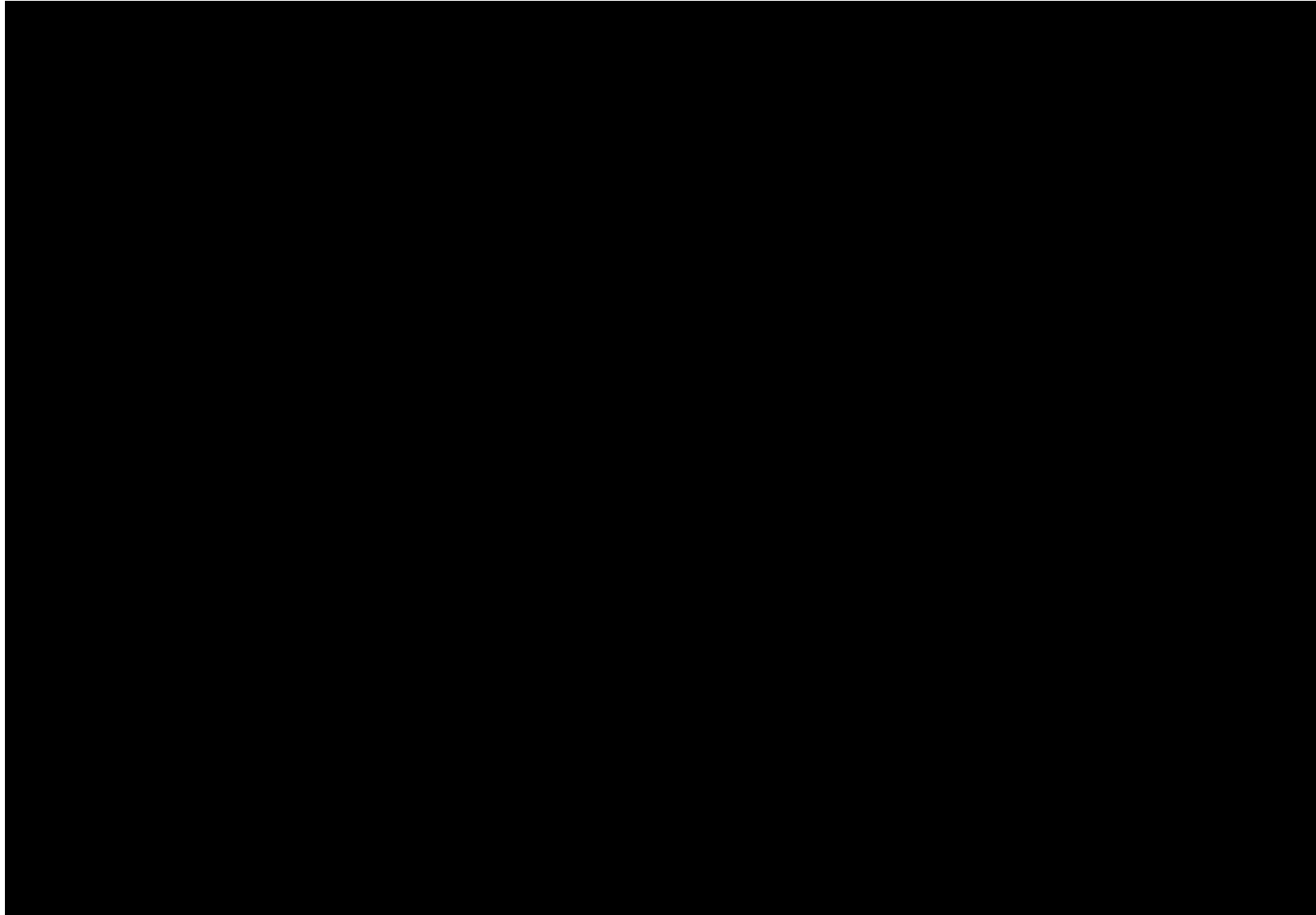
*Figure 9 - Proposed Work Area for the Smoke Hills (EL23662) Project Area*



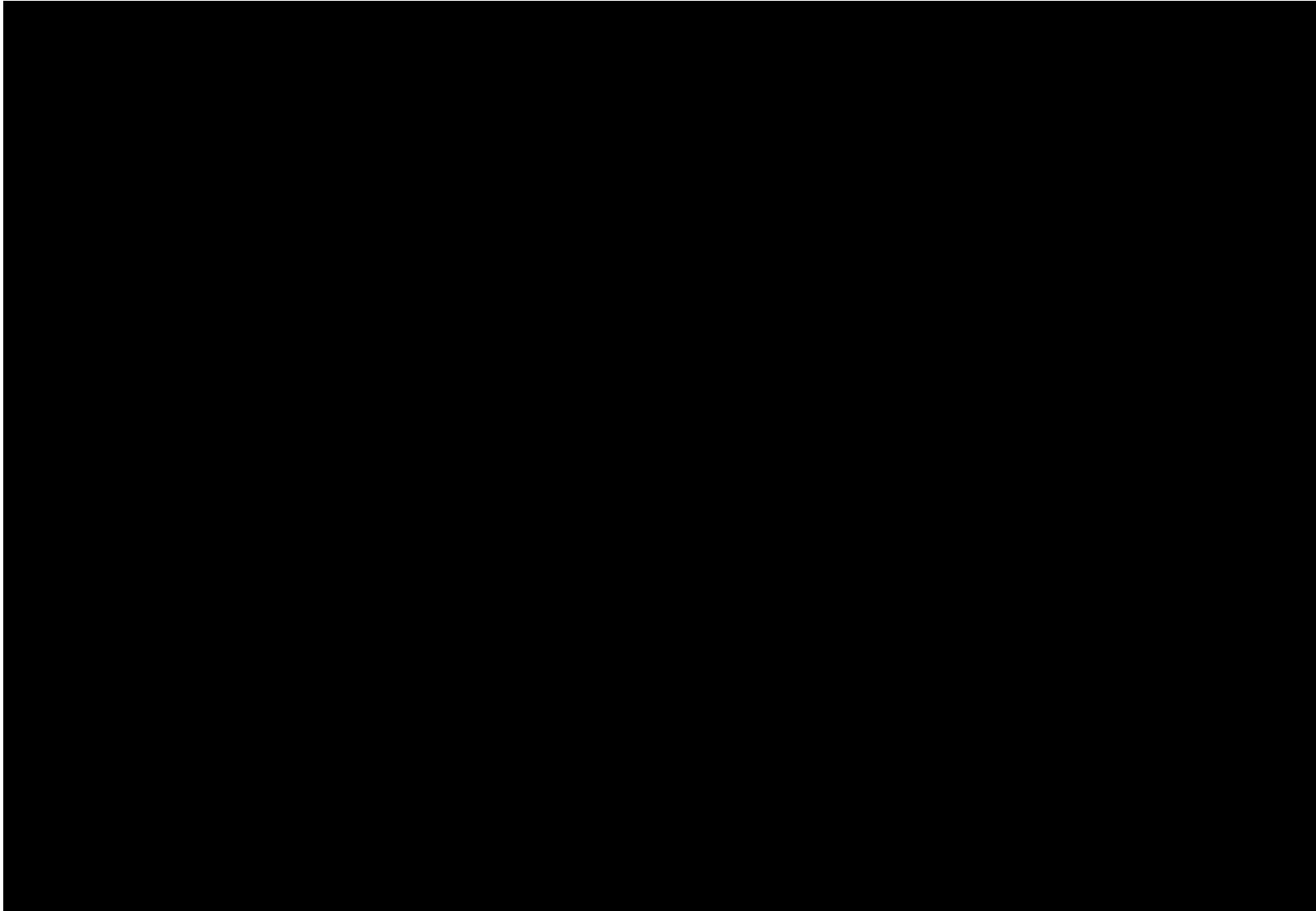
*Figure 10 – Work Area for the Ptilotus Project Area*



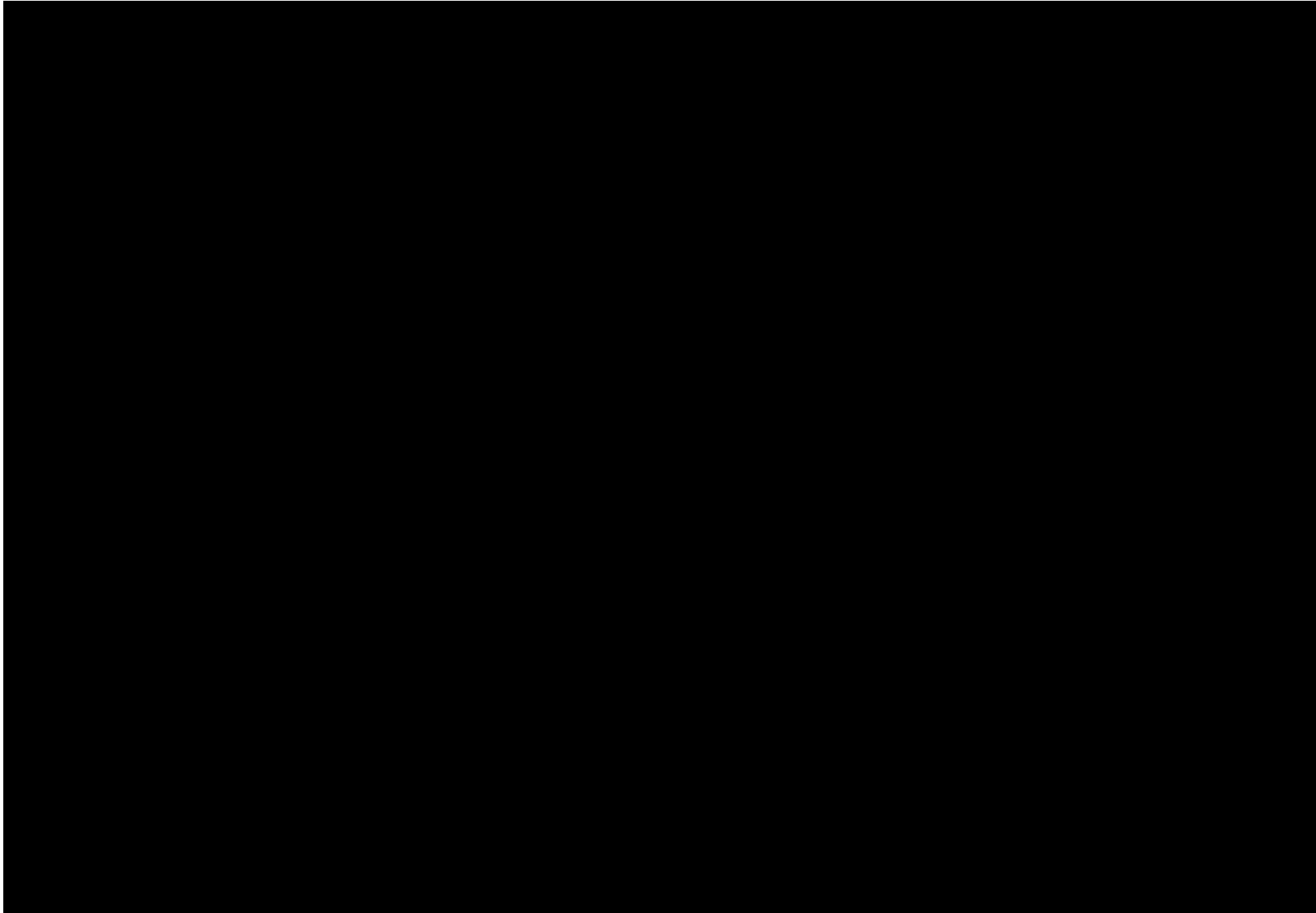
*Figure 11 - Work Areas for the Ajax and Grimwade – Update in progress*



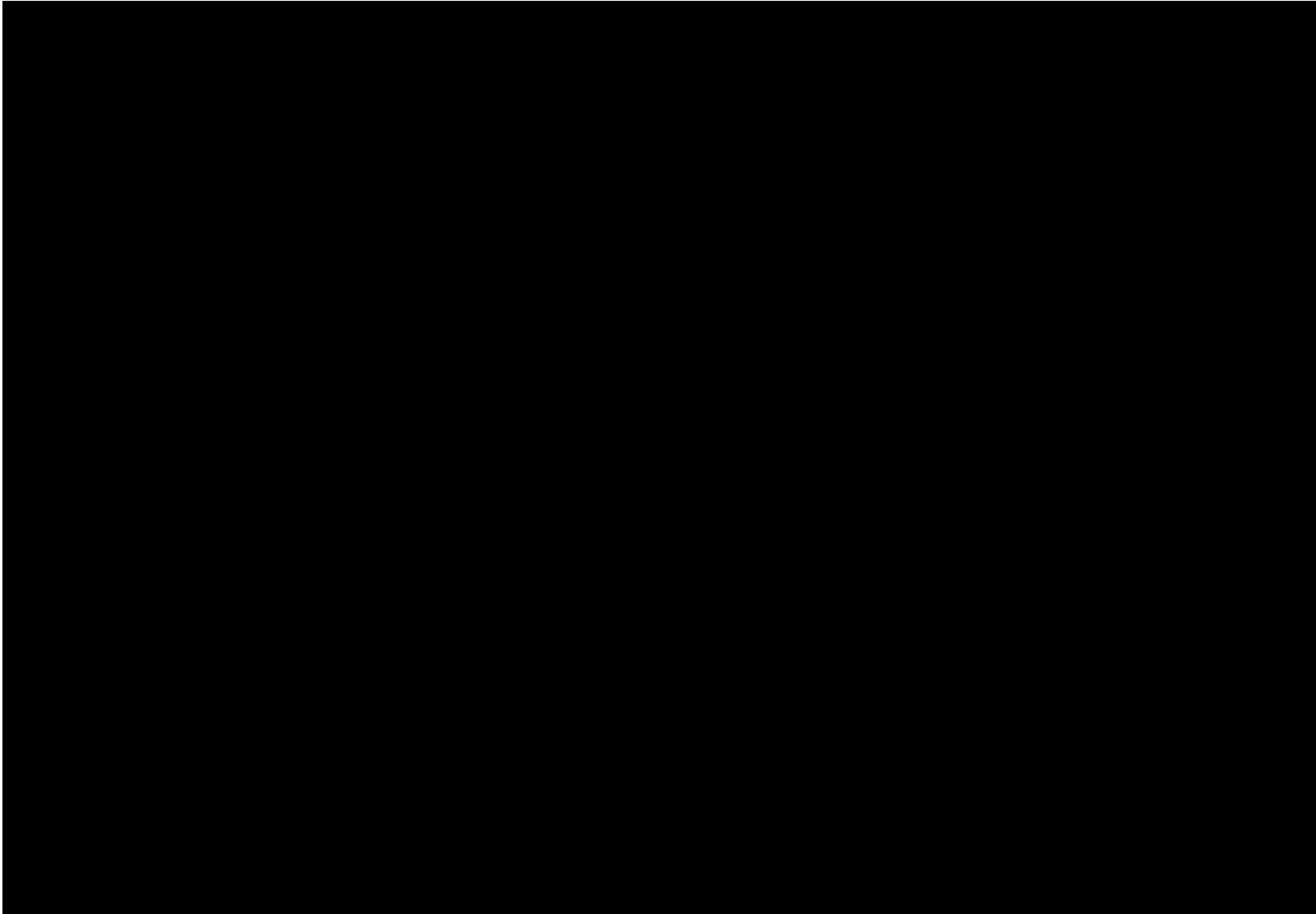
*Figure 12 - Work Area for the Ophelia Project Area and the location of the Dead Bullock Soak Southwest Proposed Work Areas*



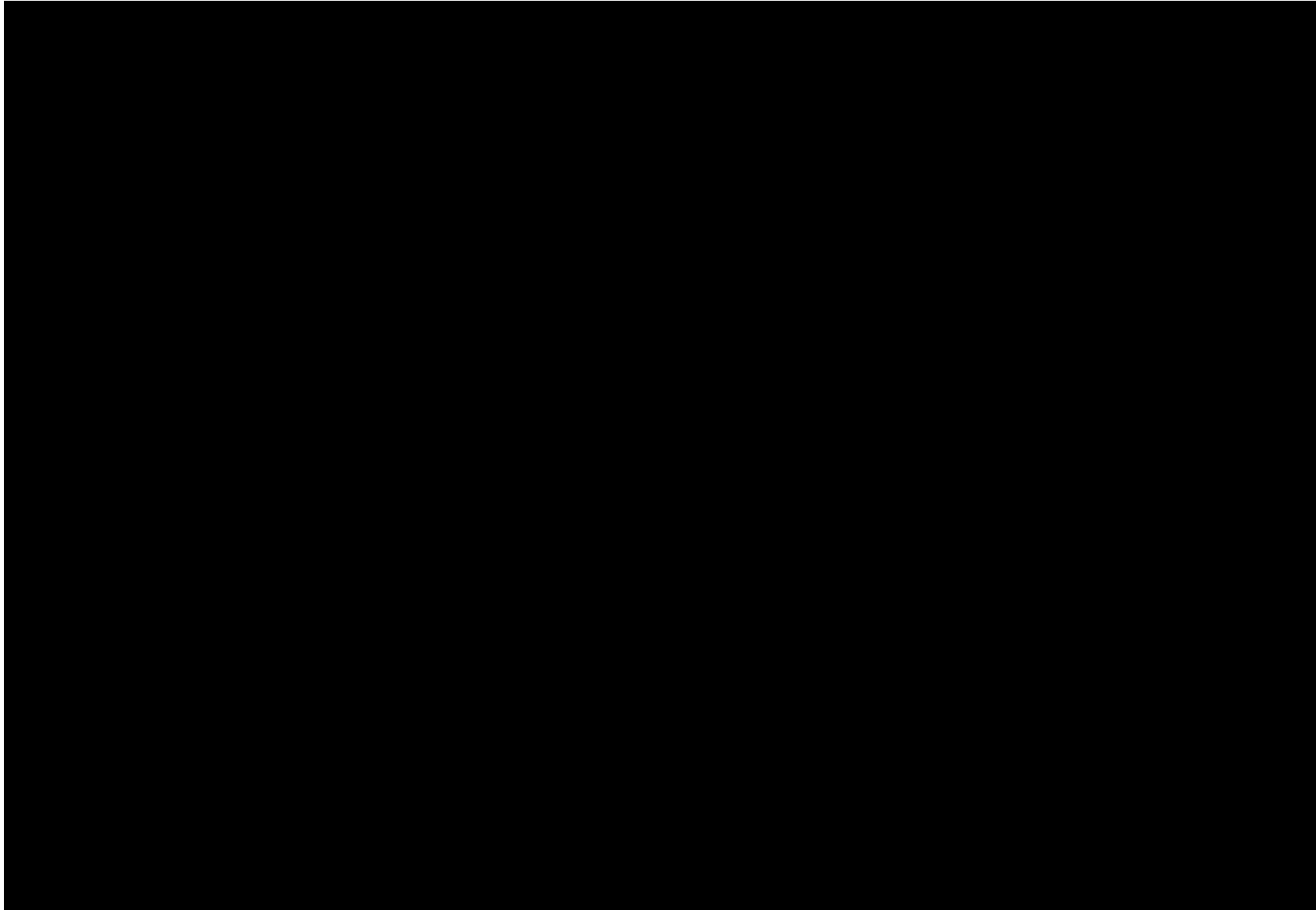
*Figure 13 - Cashel & Terry's Depot Project Areas*



*Figure 14 - Prospect map of the Officer Hill and Paris prospect areas on Officer Hill (EL23150) showing proposed work areas.*



*Figure 15 - Prospect map of the Hades Persephone and Styx (EL8077) proposed work areas*



*Figure 16 - Prospect map of the Salt (EL24973, EL9996 and EL23658) proposed work areas.*