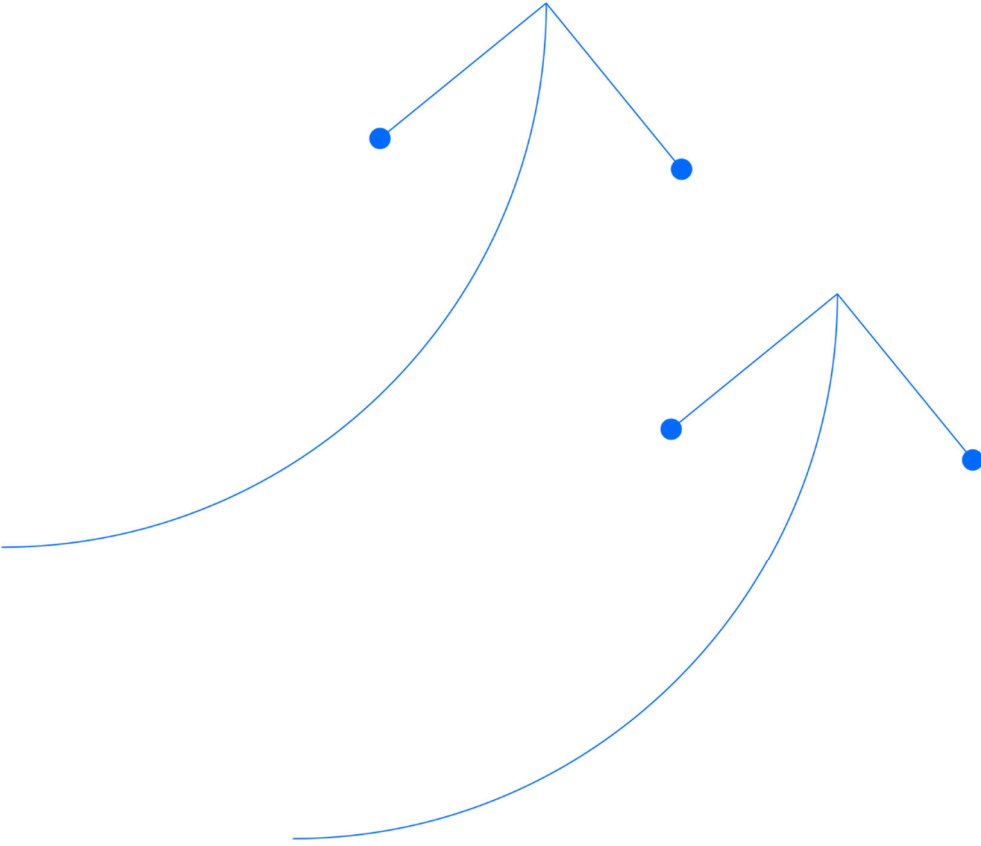


# APPENDIX N: STAKEHOLDER ENGAGEMENT PLAN

April 2026



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# 1. Overview

This appendix contains a log of communication with Stakeholders, in relation to EP 161, to the date of submission. See Table 1 – Compliance table for a summary of legislative requirements and locations as to where this can be found within this Appendix.

**Table 1: Compliance Table**

Legislative Items		
<b>Petroleum (Environmental) Regulations(PER)</b>		
Stakeholder List	<p><b>Regulation 8(4) (f)</b></p> <ol style="list-style-type: none"> <li>1. The summary of a plan must include the following:               <ol style="list-style-type: none"> <li>f) A list of stakeholders with whom the interest holder has carried out stakeholder engagement</li> </ol> </li> </ol> <p><b>Schedule 1 Clause 9(1) (a)</b></p> <ol style="list-style-type: none"> <li>1. A plan must include information about the stakeholder engagement carried out by the interest holder that includes the following:               <ol style="list-style-type: none"> <li>a) A list of stakeholders and the stakeholders contact details.</li> </ol> </li> </ol>	<ul style="list-style-type: none"> <li>• Table 2</li> </ul>
Engagement Conducted	<p><b>Requirement 7(1) and 7(2) (b)</b></p> <ol style="list-style-type: none"> <li>1. During the preparation of an environment management plan, an interest holder for the plan must carry out stakeholder engagement in accordance with this regulation.</li> <li>2. The interest holder must:               <ol style="list-style-type: none"> <li>b) Allow a reasonable period for the stakeholder to respond to the information given by the interest holder.</li> </ol> </li> </ol> <p><b>Regulation 8(4)(g)</b></p> <ol style="list-style-type: none"> <li>4. The summary of a plan must include the following:               <ol style="list-style-type: none"> <li>g) The stakeholder engagement carried out and information about future stakeholder engagement.</li> </ol> </li> </ol> <p><b>Schedule 1 Clause 9(1) (c)-(g)</b></p> <ol style="list-style-type: none"> <li>1. A plan must include information about the stakeholder engagement carried out by the interest holder that includes the following:               <ol style="list-style-type: none"> <li>c) If written responses have been received from stakeholders – a summary and copy of each response.</li> <li>d) An assessment of the merits of any objection or claim made by a stakeholder about the anticipated environmental impact of the proposed regulated activity.</li> <li>e) A statement of the interest holder's response, or proposed response, to each objection or claim made by a stakeholder</li> </ol> </li> </ol>	<ul style="list-style-type: none"> <li>• Table 3</li> <li>• Table 4 and</li> <li>• Section 7.7.3, Table 74 of the EMP (Implementation Strategy)</li> </ul>

	<p>f) A record of communication with stakeholders that is not mentioned in paragraph (b), (c) or (e), (for example, telephone discussions)</p> <p>g) Details of changes the interest holder made as a result of the stakeholder engagement.</p> <p><b>Schedule 1 Clause 12</b> A plan must specify arrangements for the interest holder to notify the following persons before the proposed date of commencement of construction, drilling or seismic surveys.</p> <p>a) The Minister. b) The occupier of the land on which the activity is to be carried out c) The owner of the land on which the activity is to be carried out (unless the owner is also the occupier).</p>	
Copies of information provided	<p><b>Schedule 1 Clause 9(1)(b)</b></p> <p>1. A plan must include information about the stakeholder engagement carried out by the interest holder that includes the following: b) A copy of the information provided to the stakeholders by the interest holder.</p> <p><b>Regulations 36(1) and (3)(h)</b></p> <p>1. An interest holder for a regulated activity must keep the prescribed records for the activity: 2. For sub regulation (1), the prescribed records for the activity are the following documents: h) Information or records relating to stakeholder engagement</p>	Table 3 Appendix N.1-N.8
Engagement Contents	<p><b>Regulations 7(1) and 7(2)(a)</b></p> <p>1. During the preparation of an environmental management plan, an interest holder for the plan must carry out stakeholder engagement in accordance with this regulation. 2. The interest holder must: a) Give each stakeholder information about: i. The regulated activity the interest holder proposes to carry out; and ii. The location (or locations) where it is proposed to carry out the activity; and iii. The anticipated environmental impacts and environmental risks of the activity; and iv. The proposed environmental outcomes in relation to the activity; and</p>	Table 3 Appendix N.1 – Information Pack

	<p>v. The possible consequences of carrying out the activity to the stakeholders rights or activities</p>	
<p><b>Future Stakeholder Engagement</b></p>	<p><b>Regulation 8(4)(g)</b></p> <p>4. The summary of a plan must include the following:</p> <p>g) The stakeholder engagement carried out and information about future stakeholder engagement</p> <p><b>Schedule 1 Clause 9(2)</b></p> <p>2. A plan must also include information about future stakeholder engagement to be carried out by the interest holder.</p>	<p>Section 5 of the EMP and Appendix N</p> <p>Section 5.5 of the EMP</p>

**Table 2: Compliance Table**

Stakeholder	Role/ Position	Phone Number	Email/ Other Contact
<b>Pastoralist</b>			
[REDACTED]	Tanumbirini Station (Rallen Australia)	[REDACTED]	[REDACTED]
<b>Northern Land Council and Traditional Owners/ Top End (PBC Default)</b>			
[REDACTED]	Branch Manager – Resources and Energy Branch	[REDACTED]	[REDACTED]
[REDACTED]	Senior Oil and Gas Specialist – Resource and Energy Branch	[REDACTED]	[REDACTED]
<b>Nurrdalinji Native Title Aboriginal Corporation</b>			
[REDACTED]	Secretary	[REDACTED]	[REDACTED]
<b>Services</b>			
Telstra (via Amplitel as tower asset owner) – [REDACTED]	Tower Asset Manager	[REDACTED]	[REDACTED]
Power and Water Corporation – [REDACTED]	Office of CEO – Chief of Staff	[REDACTED]	[REDACTED]
Department of Logistics and Infrastructure – [REDACTED]	Office of CEO – Executive Office	[REDACTED]	[REDACTED]
Roper Gulf Regional Council	Customer Service	[REDACTED]	[REDACTED]

## 2. Stakeholder Engagement Log

**Table 3: Engagement Log**

*Per Schedule 1, Part 3									
	Reg9(1)(f)*			Reg 9(1)(b)	Reg 9(1)(c)*		Reg 9(1)(d)*	Reg 9(1)(e)*	Reg 9(1)(g)*
Date	Sender	Recipient	Method & Type	Content and summary of contact (and associated records)	Stakeholder Response(s)	Date	Assessment of Objections Merit(s)	Interest Holder's Response to Objection(s)	Changes Made
<b>Land Holder</b>									
29 <sup>th</sup> November 2025	Santos	Landholder	Email	Overview of upcoming propped activities and draft schedule for the completion of the EMP, including anticipated engagement period.	NA	NA	NA	NA	NA
8 <sup>th</sup> April 2025	Santos	Landholder	Meeting	Project Update Meeting. 1. General project update 2. Beetaloo Appraisal EMP scope introduction discussion and engagement process Discussion regarding proposed infrastructure locations including access tracks, bore tests, well integrity tests.	Discussions and notification of upcoming work plans.	NA	No	NA	NA
20 <sup>th</sup> June 2025	Santos	Landholder	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	Land holder (LH) commented via phone call he has reviewed the information Pack and did not have any questions or concerns with it. Santos reiterated to call to discuss if there were any questions related.	1 <sup>st</sup> July 2025	No	NA	NA
15 <sup>th</sup> July 2025	Santos	Landholder	Meeting	On property meeting to confirm access track locations and treatment.	Meeting with LH representative expressed view that proposed access track alignment is not suitable for livestock business, particularly any activity around his yards. During meeting it was agreed to investigate option to seal existing access track in lieu of alternative route	3 <sup>rd</sup> September 2025	No	Investigating sealing in lieu of alternative access track.	NA
3 <sup>rd</sup> September 2025	Santos	Landholder	Telephone Call	Call to discuss various options around proposed alternative access track location.	LH provided further information on access track alignment impacts to his business. LH requested access track be moved to run along western boundary of the front paddock. Santos to work on options. Objected to sealing option previously discussed.	NA	NA	NA	NA
19 <sup>th</sup> September	Santos	Landholder	Telephone Call	Call from LH further discussion on access track location	In principle agreement to the preference for track to align on western fence of entrance paddock	26 <sup>th</sup> September 2025	Yes	Updated Access track as per request Traffic interactions with cattle operations likely to cause unreasonable impact.	New alignment adopted
15 <sup>th</sup> October 2025	Santos	Landholder	Email	Email providing summary of feedback that has resulted in a change to the project.	NA	NA	NA	NA	NA

NLC									
28 November 2024	Santos	Northern Land Council	Meeting	Meeting between key EP161 Santos Team and NLC representatives – - EP161 Work Program update - 2025/26 forward works program - EMP overview and engagement approach - Production Agreement	Discussion around upcoming activities and EMP process. Recommended an on-country meeting to inform TOs	28 <sup>th</sup> November 2025	No	NA	NA
December 2024	Santos	Northern Land Council	Survey	Cultural Heritage Survey participants nominated by the NLC to perform a cultural heritage assessment with AECOM Archaeologists	8 x Traditional Owners participated in the heritage assessment. Results of findings have been presented in the Cultural Heritage Assessment.	December 2024	No	NA	NA
23 <sup>rd</sup> January 2025	Santos	Northern Land Council	Email	Santos detailing priorities for NLC related tenure for 2025, including EMP on EP161 Appraisal activities.	Email response from NLC suggesting earliest Traditional Owner consultations to be in May 2025, while seeking the 2025 Work Program, and likely activities to be included in the Appraisal Program.	24 <sup>th</sup> January 2025	No	NA	Adjustments made to EMP engagement schedule.
23 <sup>rd</sup> January 2025-24 <sup>th</sup> February	Santos	Northern Land Council	Email	Various email correspondence, Updating status of 2025 Work Program and EMP.	Confirmation that an on-country meeting has been scheduled for Wednesday 11 June.	24 <sup>th</sup> February 2025	No	NA	Adjustments made to EMP engagement schedule.
11 March 2025	Santos	Northern Land Council	Meeting	Meeting between key EP161 Santos Team and NLC representatives – - Appraisal update - 2025/26 WP overview - EMP overview status and way forward AAPA and Heritage Branch engagement	Discussion about upcoming activities and EMP process.	11 <sup>th</sup> March 2025	No	N/A	N/A
7 <sup>th</sup> May 2025	Santos	Northern Land Council	Email	To discuss progress of EMP and 2025 Work Program	Sought progress of EMP, noted change to on-country to 31 <sup>st</sup> July 2025.	10 <sup>th</sup> June 2025	No	NA	Adjustments made to EMP engagement schedule.
14 <sup>th</sup> May 2025	Santos	Northern Land Council	Meeting	High level summary of the EMP. Offer of meeting with Santos representatives on 10 May 2025.	Sought progress of EMP.	10 <sup>th</sup> May 2025	No	NA	Adjustments made to EMP engagement schedule.
18 <sup>th</sup> June 2025	Santos	Northern Land Council	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	NLC arranging on-country meeting with Traditional Owners to discuss the EMP and Work Program for 2025/26.	20 <sup>th</sup> June 2025	N/A	N/A	N/A
18 <sup>th</sup> June 2025	Santos	Northern Land Council	Email	Delivery of draft EMP Cultural Heritage Assessment.	Attaching a CHMA Template. Notes from Anthropologists on AECOM CH Assessment. Comments received included: <ul style="list-style-type: none"> <li>Report states that field survey completed by qualified archaeologist. This survey would not be sufficient to be considered an archaeological survey. Targeted pedestrian surveys did not occur in the Newcastle South Investigation Area. Only an initial estimate was made. This would need to be addressed if the proponent did agree to having a cultural heritage management plan.</li> <li>Section 4 survey results also states that there are no tangible or intangible cultural heritage values identified. The report describes culturally significant vegetation. This forms part of intangible cultural heritage. Intangible heritage, which includes values, go beyond the form of a site or place only. The definition used in the</li> </ul>	21 August 2025	Yes	Santos commits to a CHMA and text included in the EMP.	The Heritage report has been updated in response to NLCs comments/clarifications, and a response provided via email. Santos commits to collaborating with the NLC with a view to developing a CHMA in the future. Santos is confident that it has met its obligations to manage potential cultural heritage risks for the proposed activities in accordance with the PER. Further, current cultural heritage protection mechanisms for exploration and appraisal activities, including the

					<p>report is not sufficient and would need to be revised to bring it in line with current practice.</p> <ul style="list-style-type: none"> <li>The assessment does not consider the broader cultural landscape in which the study area is based with no discussion beyond previous surveys that have occurred in the area. Cultural landscapes includes both tangible and intangible cultural heritage.</li> <li>The proposed unexpected finds procedure excludes elements such as contacting the Heritage Officer or Advisor at the NLC. It only refers to contacting the Site Manager and NT Heritage Branch. The NLC must also be contacted.</li> <li>Under this procedure, work in the exclusion zone should not occur until the NLC has provided approval.</li> <li>The Heritage Branch has recommended that cultural heritage management plan is developed. The NLC strongly supports this, and this should be included as part of this plan.</li> </ul>				<p>activities proposed by this EMP, are defined in the existing 2012 Cooperations and Exploration Agreement.</p> <p>Response to comments provided on 31<sup>st</sup> October 2025 as per correspondence below for EMP comments.</p>
9 <sup>th</sup> July 2025	Northern Land Council	Santos	Email	NA	NLC Advising postponement of on-country meeting scheduled 31 <sup>st</sup> July to 21 <sup>st</sup> August due to sorry business.	9 <sup>th</sup> July 2025	N/A	N/A	Adjustments made to EMP engagement schedule.
15 <sup>th</sup> July 2025	Santos	Northern Land Council	Meeting	Introduction to new Lead. Discussion about expectations for on-country presentation delivery. Discussion on engagement to date and advice on TOs/ corporation whom may have an interest. Liaison Committee establishment.	Sought an advanced copy of EMP Draft. Advised water to be the likely main concern of TO's re: EMP. Suggested to focus on water protection. Looking to commence ILUA discussions for BUOG.	15 <sup>th</sup> July 2025	NA	NA	Suggested information to be presented in on-country engagement.
5 <sup>th</sup> August 2025	Santos	Northern Land Council	Email	Follow up about the August on-country EMP engagement meeting details.	Confirming the on-country engagement has been postponed to September due to NLC internal resourcing constraints.	5 <sup>th</sup> August 2025	NA	NA	Adjustments made to EMP engagement schedule.
6 <sup>th</sup> August 2025	Santos	Northern Land Council	Email	Provision of early slide deck draft for on-country engagement.	Feedback discussed at meeting on 7 <sup>th</sup> August	7 <sup>th</sup> August 2025	NA	NA	Adjustments made to early draft of Santos slide deck.
7 <sup>th</sup> August 2025	Santos	Northern Land Council	Meeting	Follow up discussion on EMP – water concerns, and on-country engagement.	Re: Slide deck, likely too long, water usage table looked excessive. Other cosmetic related suggestions	16 <sup>th</sup> September 2025	NA	New slide deck developed and provided to NLC.	Adjustments made to early draft of Santos slide deck.
28 <sup>th</sup> August 2025	Northern Land Council	Santos	Email	NLC – STO	Confirming plans progressing for on-country engagement for 30 September, including location of the meeting and suggested accommodation/travel tips.	28 <sup>th</sup> August 2025	N/A	N/A	N/A
5 <sup>th</sup> September 2025	Santos	Northern Land Council	Email	EMP Provided by email.	Receipt of EMP acknowledged. Further information/confirmation about on-country engagement.	5 <sup>th</sup> September 2025	N/A	N/A	N/A
10 <sup>th</sup> September 2025	Santos	Northern Land Council	Meeting	2 x hard copies of EMP Draft provided. EMP discussed, on-country	Water usage discussed. Concerned that appraisal pack and early slide deck presented worst case scenario rather than a realistic expectation of water use. AAPA Certificates. Discussed logistics of on-country meeting.	10 <sup>th</sup> September 2025	No	N/A	N/A
11 <sup>th</sup> September 2025	NLC	Santos	Email	NLC – STO	Cost estimate for on-country EMP engagement meeting 30 Sept.	11 <sup>th</sup> September 2025	N/A	N/A	N/A

15 <sup>th</sup> September 2025	Santos	Northern Land Council	Email	Email summarising key discussion points from 10 <sup>th</sup> September meeting.					
30 <sup>th</sup> September 2025	Santos	Northern Land Council	Meeting	NLC organised Meeting with EP161 Traditional Owners, including engagement on 2025/26 Work Program and EMP.	Traditional Owners present at meeting were presented with the activities comprising the 25/26 Work Program; and key aspects of the EMP – particular focus on risks, and mitigants regarding protection of water, land and culture.	30th September 2025	TBA	TBA	TBA
7 <sup>th</sup> October 2025	NLC	Santos	Email	Comments on draft EMP	<p>Comments related to:</p> <ul style="list-style-type: none"> <li>Groundwater bores – whether there are plans for aquifer Standing Water Level (SWL) water chemistry electronic monitoring?</li> <li>Confirm the CHMA will be entered into and it will cover unexpected finds.</li> <li>Request change from approximately 4 stages to Vertical wells to ‘up to.’</li> <li>Are a few of the water bores planned as continuously monitored?</li> <li>Telemetric monitoring statement rather vague – queried why there wasn’t any reference to freeboard 24/7 electronic surveillance monitoring equipment.</li> </ul>	31 <sup>st</sup> October 2025	No – previously addressed from NLC feedback on 21 August 2025.	<p>CHMA included as a commitment within EMP as per comments received 21 August 2025.</p> <p>Santos will undertake monitoring as per the Code.</p> <p>Response to comments provided.</p>	<p>Minor administrative changes as identified on draft EMP updated. Santos commits to collaborating with the NLC with a view to developing a CHMA in the future. Santos is confident that it has met its obligations to manage potential cultural heritage risks for the proposed activities in accordance with the PER. Further, current cultural heritage protection mechanisms for exploration and appraisal activities, including the activities proposed by this EMP, are defined in the existing 2012 Cooperations and Exploration Agreement. This agreement is fit for purpose and has supported a range of successful petroleum exploration and appraisal activities on EP 161, including seismic surveys, well drilling, hydraulic fracture stimulation and gas flow testing).</p>
<b>NAC</b>									
26 <sup>th</sup> June 2025	Santos	NAC - Contact details as ORIC	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	NA	NA	NA	NA	NA
7 <sup>th</sup> July 2025	Santos	NAC - Contact details as ORIC	Email	Follow up email to confirm that information pack received.	NA	NA	NA	NA	NA
17 <sup>th</sup> July	Santos	NAC - Contact details as ORIC	Phone call	Follow up that information pack received. Call failed	Email confirming that Power and Water Corporation had no specific feedback.	18 <sup>th</sup> July 2025	NA	NA	NA
<b>Services - Telstra</b>									
25 <sup>th</sup> June 2025	Santos	Amplitel	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	<p>Requesting further details on specific location of project in relation to Amplitels (Telstra) asset.</p> <p>Stated access to Amplitel structures cannot be impeded by the proposed works</p>	26 June 2025	Yes	Included additional mitigation ensuring access to cell tower is not restricted at any time during works	Yes

16 <sup>th</sup> September 2025	Santos	Tim Wieberdink – Amplitel	Email	Email providing summary of feedback that has resulted in a change to the project, with the inclusion that access to cell towers will not be impeded by the activity.	NA	NA	NA	NA	NA
<b>Services – Power and Water</b>									
20 <sup>th</sup> June 2025	Santos	Office of the CEO – PWC	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	NA	NA	NA	NA	NA
17 <sup>th</sup> July 2025	Santos	Office of the CEO – PWC	Phone call	Phone call to Office of the CEO to confirm receipt, there was no answer or ability to leave a voice message.	NA	NA	NA	NA	NA
17 <sup>th</sup> July 2025	Santos	Office of the CEO – PWC	Email	Email to Office of the CEO advising engagement period for the previously provided Information Pack closes on 18 July 2025, requesting whether Power and Water Corporation requires discussion in relation to Santos' proposed activities.	NA	NA	NA	NA	NA
<b>Services - DLI</b>									
20 <sup>th</sup> June 2025	Santos	Department of Logistics and Infrastructure	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	NA	NA	NA	NA	NA
17 <sup>th</sup> July 2025	Santos	Department of Logistics and Infrastructure	Phone call	Phone call to Office of the CEO to confirm receipt.	Request Santos to write.				
17 <sup>th</sup> July 2025	Santos	Department of Logistics and Infrastructure	Email	Email advising engagement period for the previously provided Information Pack closes on 18 July 2025, requesting whether the Department requires discussion in relation to Santos' proposed activities.	Email confirmation on behalf of the CEO that the Department has no comment regarding Santos' proposed activities.	17 <sup>th</sup> July 2025	NA	NA	NA
<b>Services – Roper Council</b>									
20 <sup>th</sup> June 2025	Santos	Roper Gulf Regional Council	Email	Delivery of EMP Appraisal Information Pack via email and invitation for comment.	NA	NA	NA	NA	NA
17 <sup>th</sup> July 2025	Santos	Roper Gulf Regional Council	Phone call	Phone call to main office to confirm receipt, there was no answer.	NA	NA	NA	NA	NA
17 <sup>th</sup> July 2025	Santos	Roper Gulf Regional Council	Email	Email advising engagement period for the previously provided Information Pack will soon close, and requesting whether the Council requires discussion in relation to Santos' proposed activities.	NA	NA	NA	NA	NA

### 3. Assessment of Merits of Objections and Claims

#### 3.1. Summary of Assessment of Merits of Objections and Claims

**Table 4 Assessment of Merits**

Date	Concerns, Objections, and Claims	Assessment of Merits	Interest Holder's Response	Changes to EMP
Landholders				

3 <sup>rd</sup> September 2025	Landholder expressed view that proposed access track alignment is not suitable for his livestock business, particularly any activity around his yards. LH requested access track be moved to run along western boundary of the front paddock.	Yes	The original access track can be relocated to the land holders preferred location.	Yes – updated footprint to the one proposed within this EMP which reduces use of the Landholders access track.
<b>Northern Land Council</b>				
21 <sup>st</sup> August 2025	Request for a CHMA be included which includes an appropriate unexpected finds procedure.	Yes	Santos commits to collaborating with the NLC with a view to developing a CHMA in the future. Santos is confident that it has met its obligations to manage potential cultural heritage risks for the proposed activities in accordance with the PER. Further, current cultural heritage protection mechanisms for exploration and appraisal activities, including the activities proposed by this EMP, are defined in the existing 2012 Cooperations and Exploration Agreement. This agreement is fit for purpose and has supported a range of successful petroleum exploration and appraisal activities on EP 161, including seismic surveys, well drilling, hydraulic fracture stimulation and gas flow testing).	Additional text included in EMP
<b>Services - Telstra</b>				
25 June 2025	Stated access to Amplitel structures cannot be impeded by the proposed works	Yes	The Seismic activity that may potentially impact Amplitels cell tower has previously been rehabilitated. There will be some activities ongoing, therefore a commitment is to be included within the EMP	Mitigation provided within the All Activities, new mitigations states: Access to Amplitel cell tower will not be impeded by the activity.

# **Appendices**

**N.1: Information Pack**

Santos

# EP 161 BEETALOO APPRAISAL

## EMP Approvals



June 2025

## Why have we prepared this Information pack?

Santos QNT Pty Ltd (Santos) is the registered interest holder and operator of exploration permit (EP) 161 located in the Beetaloo Basin. Santos is proposing to undertake a Regulated Activity within EP 161, as defined in the *Petroleum (Environment) Regulations 2016* (PER).

Santos is committed to undertaking genuine and meaningful engagement about our activities in the Beetaloo Basin. Early engagement allows stakeholders an opportunity to communicate concerns and identify issues where their feedback can be considered. This engagement pack is provided to identified Stakeholders under the PER for Santos proposed 'EP 161 Beetaloo Basin Appraisal Activity Environmental Management Plan' (Beetaloo Appraisal EMP).

Regulation 6 of the *Petroleum (Environment) Regulations 2016* (PER) states that an interest holder who proposes to carry out a regulated activity must first submit an environmental management plan (EMP) to the Minister for Lands, Planning and Environment for approval. The EMP may be submitted for approval only after the interest holder has carried out stakeholder engagement in relation to the regulated activity to which the plan relates.

Santos is providing this document to identified stakeholders to ensure that the information meets the regulatory requirements of the PER, which mandates that Santos must:

- a) Give each stakeholder information about:
  - i) *the regulated activity we propose to carry out; and*
  - ii) *the location (or locations) where we propose to carry out the activity; and*
  - iii) *the anticipated environmental impacts and environmental risks of the activity; and*
  - iv) *the proposed environmental outcomes in relation to the activity; and*
  - v) *the possible consequences of carrying out the activity to the stakeholder's rights or activities.*
- b) *allow a reasonable period for the stakeholder to respond to the information given by the interest holder.*

Table 1 shows where different information is provided within this pack.

Table 1: PER Regulation 7 – Compliance Table

Information	Location within this pack
The regulated activity we propose to carry out.	<b>Section 1.2</b>
The location (or locations) where we propose to carry out the activity.	<b>Section 1.1 and 1.2</b>
The anticipated environmental impacts and environmental risks of the activity.	<b>Section 2</b>
The proposed environmental outcomes in relation to the activity.	<b>Section 2</b>
The possible consequences of carrying out the activity to the stakeholder's rights or activities.	<b>Section 2</b>
The period for the stakeholder to respond to the information given by the interest holder.	<b>Stakeholder Cover letter</b>

## What activities have we already completed on EP 161?

Santos is committed to exploring reserves of natural gas in the McArthur Basin, expanding on appraisals completed over the last 10 years.

Since becoming the operator of EP 161 in December 2012, Santos has:

- Acquired and processed 700 kilometres of 2D seismic data.
- Drilled and tested the following gas wells:
  - Tanumbirini 1 (2014)
  - Marmbulligan 1 (2016)
  - Tanumbirini 1, Tanumbirini 2HST1 and Tanumbirini 3HST1 (2019-2022).

## Why are we preparing the new Beetaloo Appraisal EMP?

Santos is proposing to continue to assess the potential of shale gas reservoirs by constructing two new wells pads and up to 12 new gas wells. These wells will be constructed and tested to assess the quality of the underlying shale gas reservoir, which is located three to four kilometres below the ground surface. This activity may commence as early as 2026.

The proposed Beetaloo Appraisal EMP will also include Activities that are authorised by existing EMPs. This is to allow Santos to operate under a single, contemporary EMP document and cease to operate under the existing EMPs. Table 2 and section 1.3.10 contain further detail on the scope of the regulated activity within the proposed Beetaloo Appraisal EMP (Regulated Activity).

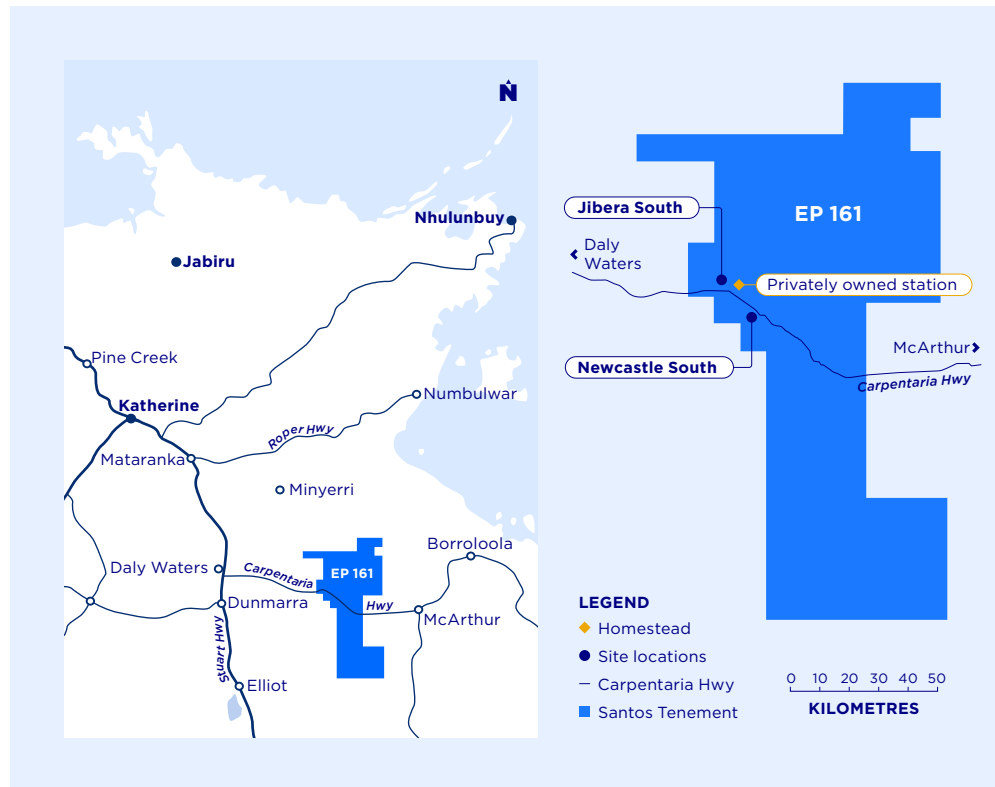
# 1 Proposed activities

The following sections provide information on the location and proposed Regulated Activity.

## 1.1 Where will the activities be located?

Santos is the operator of EP 161 which is located approximately 160 kilometres east of Daly Waters in the Northern Territory (NT) on Tanumbirini Station, within the Beetaloo Sub-Basin. The Beetaloo Sub-Basin is a smaller geological feature located within the larger McArthur Basin.

Figure 1: New Regulated Activity within EP 161 within Tanumbirini Station



## 1.2 What activities are we proposing?

Under this Beetaloo Appraisal EMP, Santos is proposing both new regulated activities as well as ongoing operation of existing activities over this five year EMP period. The details of the activities are set out below.

### 1.2.1 New Regulated Activity

Santos is proposing the following Regulated Activities as listed below which are anticipated to commence from 2026 and be delivered over five years, and beyond, consisting of;

- Land clearing and earthworks for the creation of two new well pads, one located at Jibera South and one at Newcastle South (see Figure 1)
- The construction, operation, decommissioning, dismantling and removal of up to 12 wells in total, distributed across both Jibera South and Newcastle South well pad
- Hydraulic fracture stimulation (HFS) and well testing on all wells at both locations. This will include an average of 60 stages of HFS for horizontal wells and an average of four stages of HFS for vertical wells
- Operating, testing, maintenance and decommissioning of installed wells
- Land clearing, earthworks, construction and installation of ancillary infrastructure at both of the proposed locations (e.g. groundwater monitoring and extraction bores, access track, camp, laydown, gravel pits)
- Construction, operation, decommissioning, dismantling and removal of water management infrastructure (e.g. clean water pond, evaporation tanks, enclosed storage tanks) located on the two new well pads
- Flaring at both locations during the well testing phase. Beneficial use of gas will be subject to the future agreement to, approval for, and practicality of, gas being delivered into a pipeline system.

### 1.2.2 Ongoing Operation of Previously Approved Regulated Activity

Santos is also seeking authorisation to carry out a number of previously authorised Regulated Activities. These were previously approved under existing EMPs. The purpose of seeking a new authorisation is to allow Santos to continue to undertake these activities, but operate under a single, contemporary EMP whilst ceasing to operate under the existing EMPs. A list of the existing EMPs for EP 161, and the activity approved under each, is listed in Table 2 and section 1.3.10.

This Beetaloo Appraisal EMP will incorporate all activities with the status of 'ongoing' as set out in Table 2.

Table 2: Previously Approved EMPs for EP 161

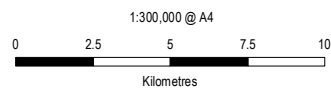
EP 161 Works Program	Scope Definition	EMP Name	Approved	Status
2D Seismic and Ground Gravity Survey Program	2D seismic and survey – approximately 240km of seismic lines & 10km of connection lines).	EP 161 2D Seismic and Ground Gravity Survey Program	September 2024	Completed
	<b>Rehabilitation of 240km of seismic lines and 10km of connection lines) – as per Figure 3.</b>			<b>Ongoing</b>
McArthur Basin Drilling Program	Drilling of Tanumbirini-1.	McArthur Basin 2019 Drilling Program  Revised and added program in STO 2-7 (Inacumba program cancelled)	21 February 2021	Completed
	Marmbulligan - 1 stratigraphic Corehole Program.			Completed
	Drilling of water bores in Tanumbirini North.			Completed
	Drilling of water bores at Tanumbirini South and Inacumba North and South.			Completed/Cancelled
	Drilling of Inacumba-1 pilot well.			Cancelled
	Plug and decommission of the deepest section of the Inacumba-1 pilot well.			Cancelled
	DFIT of Tanumbirini-1.			Complete
	Drilling of T anumbirini-2H well.			Complete
	<b>Well integrity monitoring.</b>			<b>Ongoing</b>
	<b>Evaluation of Inacumba-1/1 H and Tanumbirini-2H (including mudlogging, wireline/LWD, DFIT, coring).</b>			<b>Ongoing</b>
	<b>Suspension and/or plugging and decommissioning of Tanumbirini-2H and Inacumba-1/1 H.</b>			<b>Ongoing</b>
	<b>Rehabilitation of the Tanumbirini-1, Tanumbirini-2H and Inacumba-1H wells.</b>			<b>Ongoing</b>
	Drilling of Tanumbirini-3H well.			Complete
	Drilling of Inacumba-2H well.			Complete
	<b>Evaluation of Inacumba-2H and Tanumbirini-3H (including mudlogging, wireline/LWD, DFIT, and coring).</b>			<b>Ongoing</b>
	<b>Suspension and/or plugging and decommissioning of Inacumba-2H and Tanumbirini-3H.</b>			<b>Ongoing</b>
<b>Rehabilitation of the Tanumbirini-3H and Inacumba-2H wells.</b>	<b>Ongoing</b>			
McArthur Basin Civil and Seismic Program	Tanumbirini area seismic 2D seismic survey- approximately 500km of 5 m wide seismic lines.	ENV-EP 161 (DEPWS reference STO-0002)	August 2013	Complete
	Expansion of the Tanumbirini lease pad and construction of the Inacumba lease pad.	Environment Management Plan: McArthur Basin Civil and Seismic Program - Revision 4	June 2019	Complete/Cancelled
	<b>Civil engineering activity - upgrading and creation of new roads and access tracks, clearing of laydown areas, borrow pits, campsites, and tank pads.</b>			<b>Ongoing</b>
	Acquisition of a 10km 2D seismic line. <b>Rehabilitation only (as per Figure 2).</b>			Complete, <b>Rehabilitation ongoing</b>
<b>The reprofiling of access tracks and lease pads</b>			<b>Ongoing</b>	

The location of the above previously approved activities is identified in Figure 2 and Figure 3.

Figure 2: Previously Approved Regulated Activity – Tanumbirini and Inacumba. Well pads and associated infrastructure.



- Legend**
- Water Bores
  - 2D Seismic Line
  - Existing Access Road
  - Proposed Access Road
  - Major Waterways
  - Principal Road
  - Borrow Pit
  - Inacumba Lease
  - Tanumbirini Lease



Santos  
McArthur Basin Drilling  
Environmental Management Plan

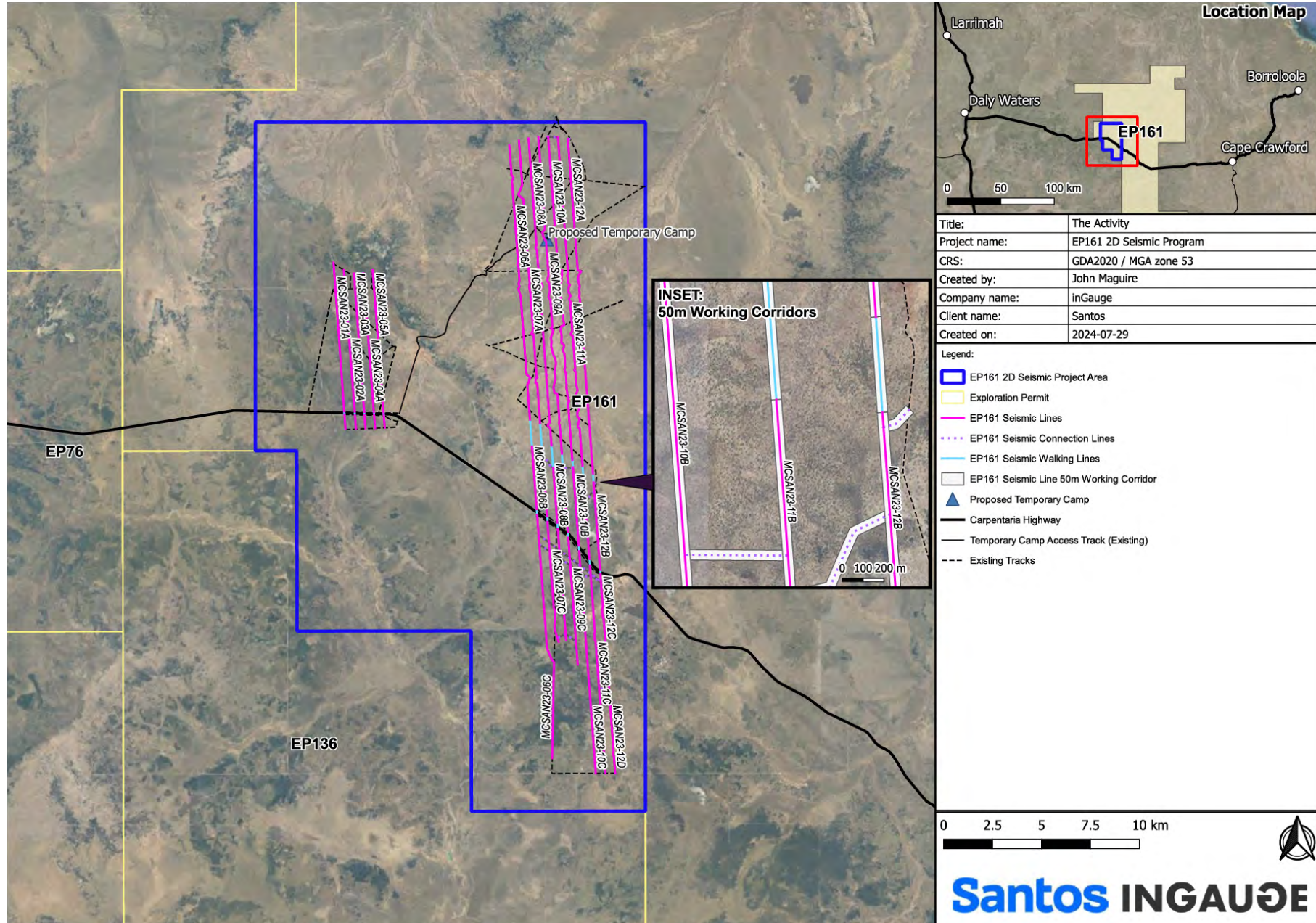
Project No. 43-22812  
Revision No. B  
Date 28/03/2019

Map Projection: Universal Transverse Mercator  
Horizontal Datum: GDA 1994  
Grid: GDA 1994 MGA Zone 53

**Proposed Infrastructure**

**FIGURE 3-1**

Figure 3: Previously Approved Regulated Activity – Seismic for Rehabilitation



### 1.2.3 New Proposed Well Pads

The two new proposed well pads are each proposed to be approximately 15 hectares in size. There will be additional areas of disturbance for access roads, borrow pits (up to two hectares each) and groundwater bore pads (up to two hectares) as shown in Figures 4 and Figure 5.

Figure 4: Jibera South Proposed infrastructure locations

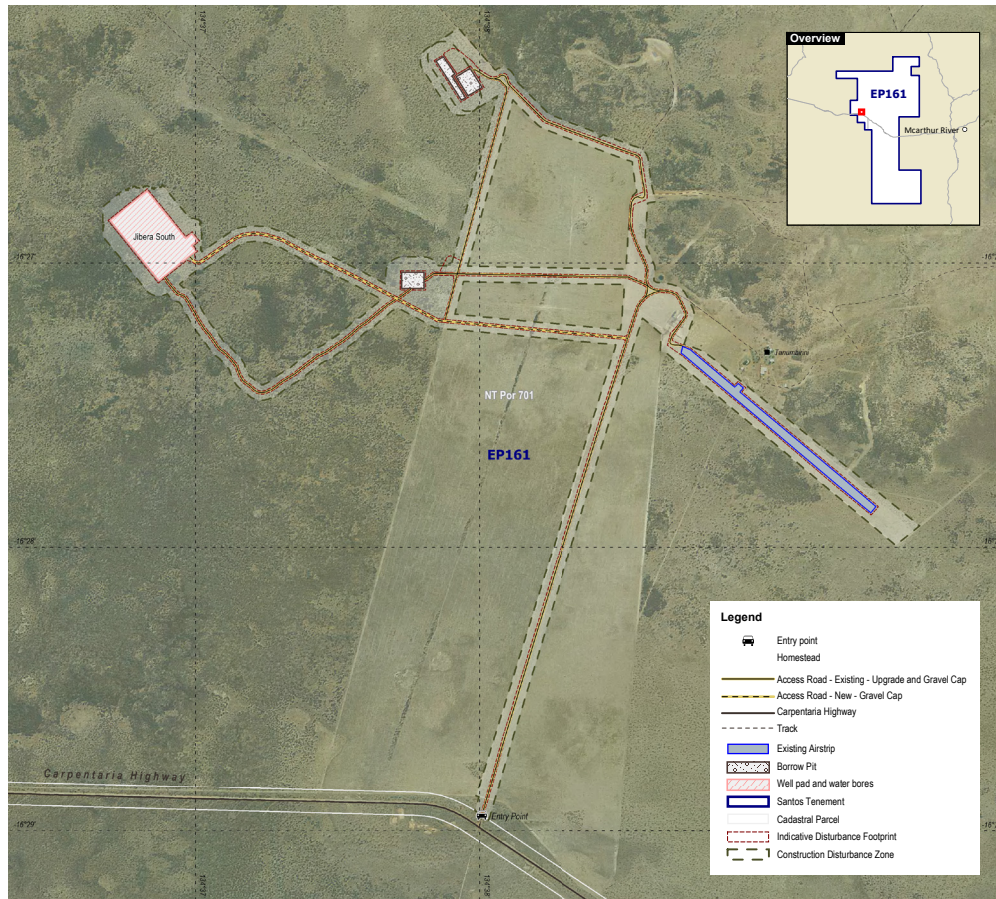
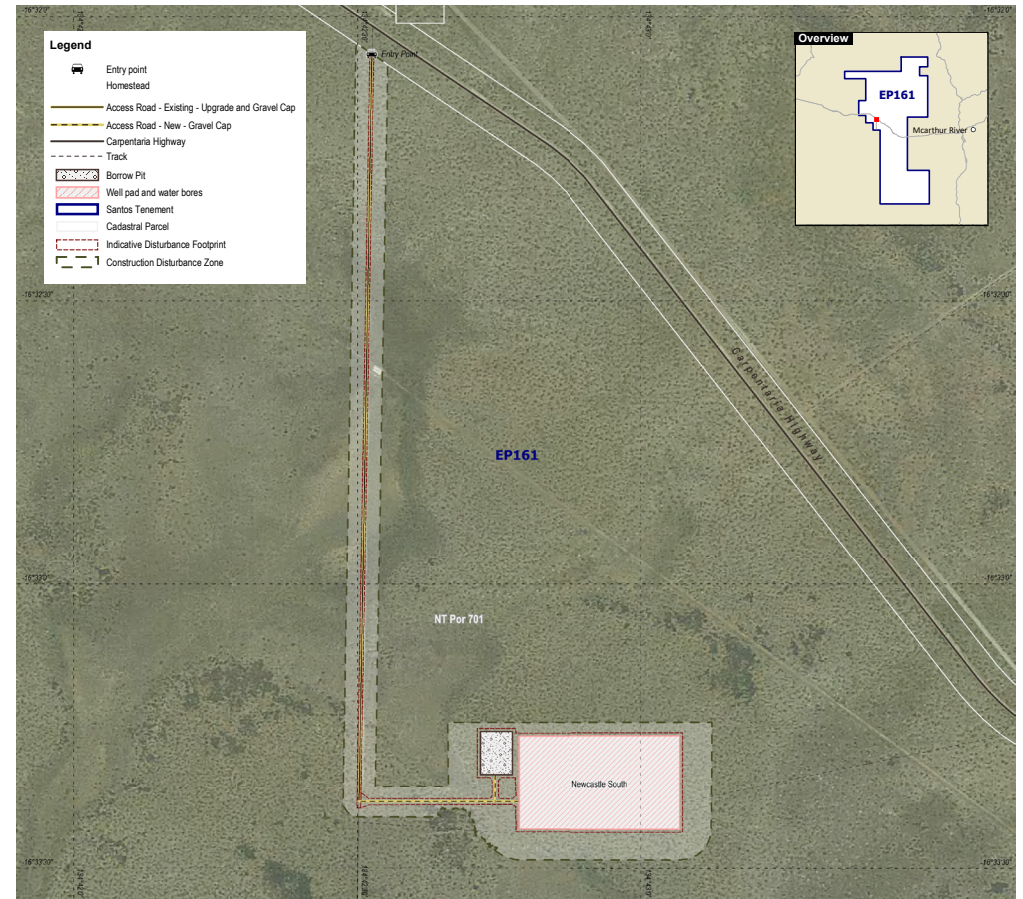


Figure 5: Newcastle South Proposed infrastructure



The two new well pads will include a drilling pad, casing storage and cutting pits, laydown areas, lined open water storage pits, flowback fluid storage tank areas, camp and other ancillary infrastructure. Figure 6 and Figure 7 provide indicative examples of a well pad layout.

Figure 6: Indicative well layout

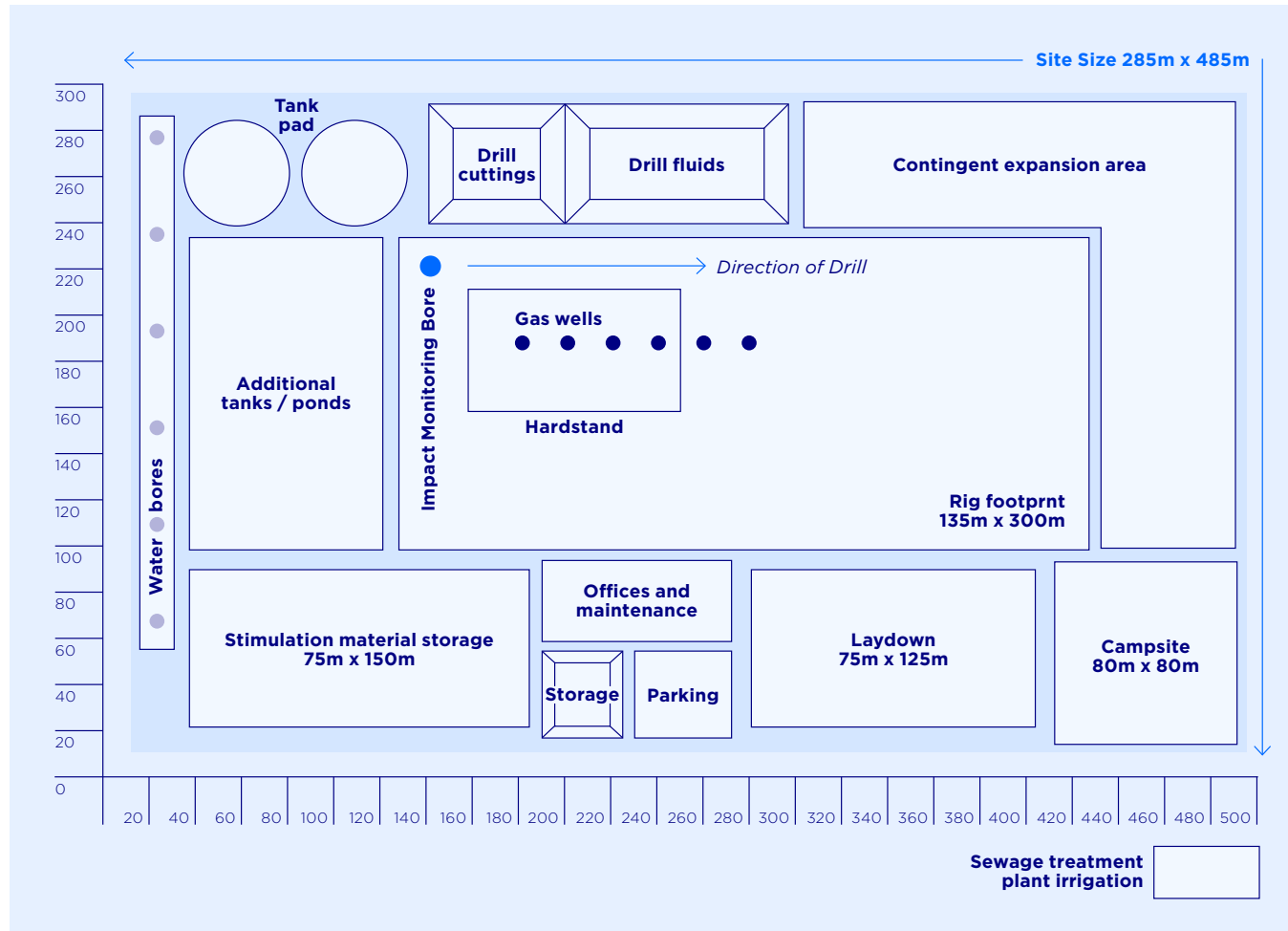


Figure 7: Indicative well pad



## 1.2.4 Civil Works

Civil works for the Regulated Activity will include land clearing, earthworks (cut/ fill) for well pad formation, access road construction and maintenance (as required), water storage pads, dams, bunds, borrow pits and campsite pads.

### 1.2.4.1 Access Tracks

The Regulated Activity proposes to utilise existing access tracks where practicable, with two new access tracks proposed. The access track corridor of disturbance is generally 10 metres wide, which may extend to 20 metres in specific areas to allow for Erosion and Sediment Control (ESC) and other drainage and water management as required. A description of the proposed new access tracks are;

- **Jibera South** – as shown in [Figure 4](#), an approximate 2.9 kilometre access track crossing south of the existing Tanumbirini Station, and its associated infrastructure, running east west along the existing fence line. This new access track will reduce the Regulated Activity's impact on the Tanumbirini Station homestead, and the cattle yards located to the north of the proposed deviation and fence line. Additionally, the new route into the well pad provides improved flood immunity and avoidance of high value ecological habitat.
- **Newcastle South** – as shown in [Figure 5](#), a short 0.6 kilometre access track is proposed into the new well pad, which was selected to minimise clearing requirements.

Minor clearing is proposed where existing access tracks are proposed to be used to allow for the installation of drainage infrastructure. These will be capped and maintained during well pad appraisal activities, with minor upgrades as required to improve flood immunity. Additionally, the airstrip will be maintained while it is in use by Santos, with no upgrades proposed.

[Figures 4 and 5](#) show the proposed new access tracks for the Regulated Activity.

### 1.2.4.2 Lease Pad Activities

The proposed infrastructure at Jibera South and Newcastle South both consist of a well pad, a campsite pad, storage pad, water tank pads, water bore locations and other well pad infrastructure as per [Figure 6](#). This area will be cleared, with vegetation mulched or stockpiled separately with topsoil for rehabilitation.

There is an existing water supply bore at the Jibera South location which is proposed to be utilised as part of the Jibera South operations. Water will either be stored in above ground water tanks, or within a dam for onsite storage prior to use.

Other relevant infrastructure such as water tank pads, cuttings pits, bunds, fluid storage will be constructed onsite and contained within the proposed 15 hectare well pad footprint.

### 1.2.4.3 Borrow Pits

The proposed infrastructure constructed for the proposed Jibera South and Newcastle South lease pads will require clay, gravel and other select fill. To source this material, the Regulated Activity will utilise borrow pits as identified in [Figure 4 and 5](#).

## 1.2.5 Drilling Activities

At each well pad location, wells are proposed to be drilled to vertical depths of between approximately 3,000-4000 metres True Vertical Depth (mTVD). The wells will be drilled using an appropriately sized rig to drill to the proposed maximum depth. Figure 8 shows what a drilling rig could look like.

Figure 8: Example of drill rig for site works



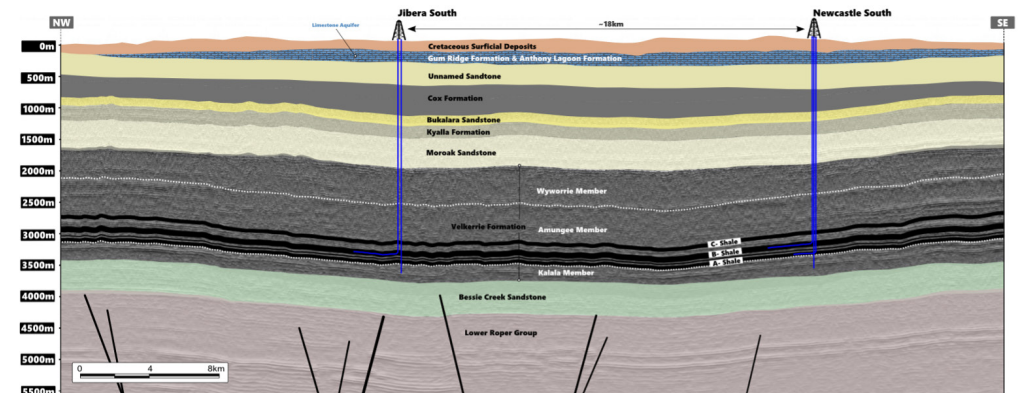
### 1.2.5.1 Beetaloo Appraisal Exploration Wells

The horizontal appraisal wells have been proposed to appraise the deep basin area of the eastern extension of the Beetaloo Sub-basin. Up to two vertical and 11 horizontal wells are distributed across both sites (note, total will not exceed 12 wells). The proposed horizontal wells have been planned to be between 10 to 50 metres apart at surface i.e., wellhead to wellhead, and the lateral sections planned to be hundreds of metres apart.

The horizontal wells will target separate shale intervals. These shale units are differentiated vertically. The horizontal exploration wells are planned to intersect highly mature Velkerri shale intervals with an expected dry gas composition i.e. primarily methane.

Figure 9 shows an illustration of a cross section through the Beetaloo Basin. The two aquifers expected at this location is the Anthony Lagoon Beds and Gum Ridge Formation. Drilling practices will comply with the *Code of Practice: Well Integrity* (Northern Territory Government, 2025) to ensure any intersected aquifers are protected. These two aquifers are the only two providing a beneficial use, or potential to provide a beneficial use in this area.

Figure 9: Indicative illustrative section through the Beetaloo Sub-basin showing proposed target intervals of conceptual exploration wells relative



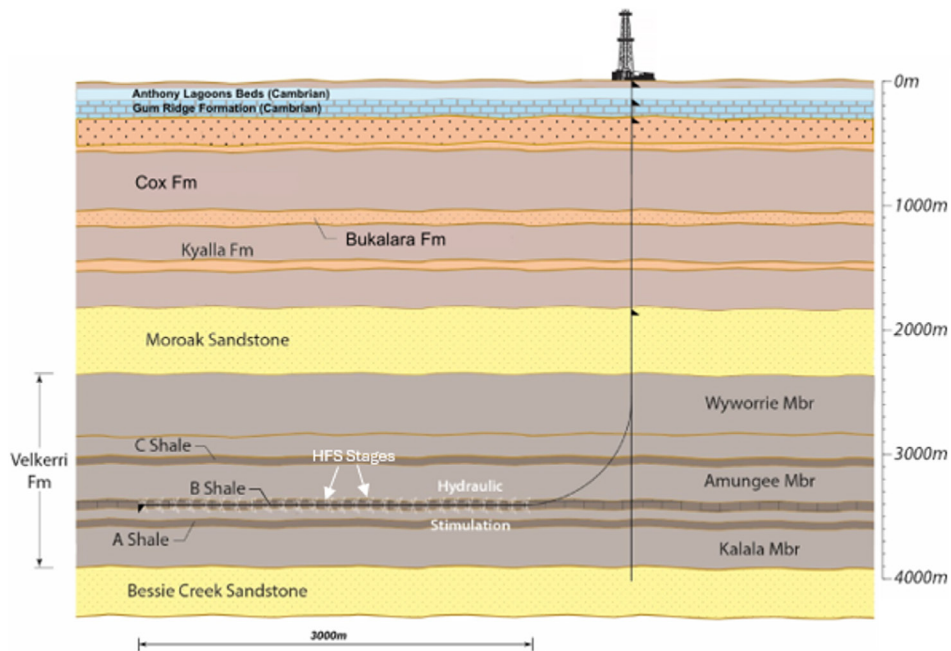
### 1.2.6 Hydraulic Fracture Stimulation Program

The stimulation process involves pumping a stimulation fluid down the well at sufficient pressure to create a fracture in the target formation. Stimulation fluids comprise of mainly water or re-used well flowback water, a minor volume of additives and a larger volume of an inert propping material such as sand or ceramic beads. The inert proppant material (i.e. sand or ceramic beads) is injected into the new fractures to keep them open once the pump pressure is released. Hydraulic Fracturing Stimulation (HFS) of a well occurs after the well has been drilled to ensure the well can produce a commercially viable volume of gas.

A Well Operations Management Plan (WOMP) will be developed in accordance with the *Code of Practice: Well Integrity* (Northern Territory Government, 2025) and approved by the Department of Lands, Planning and Environment (DLPE). The WOMP will demonstrate how the well trajectory, perforation placement, hydraulic fracturing operations, anticipated hydraulic fracture geometry and risks of hydraulic fracture growth outside of the target stratigraphic horizon are to be managed.

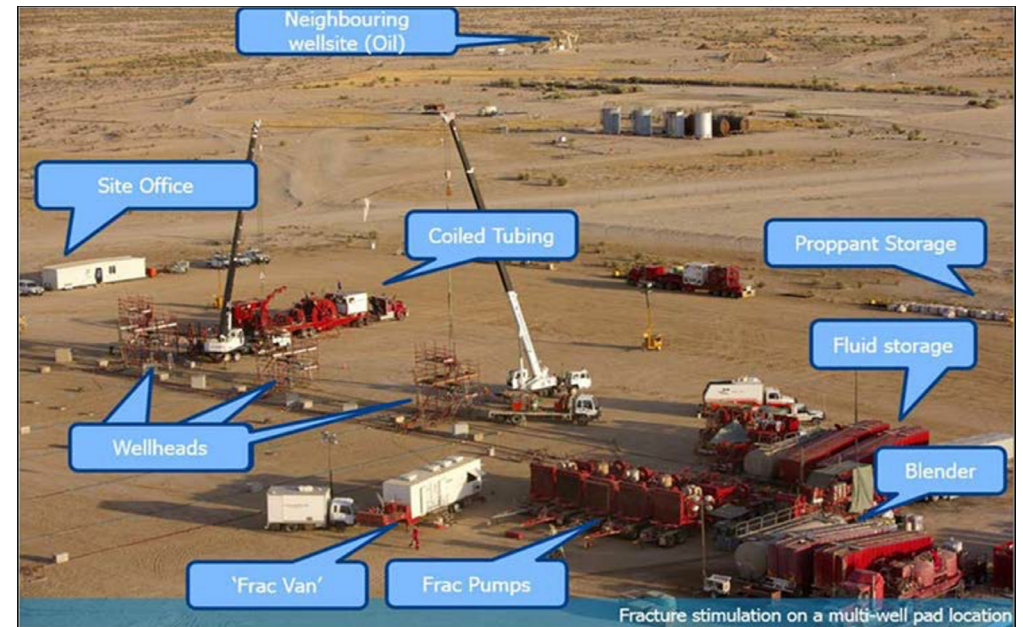
The intent of HFS is to create highly conductive channels into the reservoir over multiple stages (illustrated in Figure 10). These channels increase the flow of natural gas from the target formation. This technique is commonly used in low permeability reservoirs that cannot sustain economic production, such as shale.

Figure 10: Illustration of Multistage Fracture Stages and Horizontal Well Length



Hydraulic fracturing has been extensively used in the oil and gas industry since 1947. Santos has successfully used this technique on wells in the Cooper Basin (South Australia) for over 50 years and is currently performing the process in many basins around Australia. A photo from a three well pad location in the Cooper Basin (with mark-up of major equipment on location during the hydraulic fracturing operation) is shown in Figure 11.

Figure 11: Fracture Stimulation equipment in a multi-well location (pad) in the Cooper Basin



## 1.2.7 Water and Wastewater Management

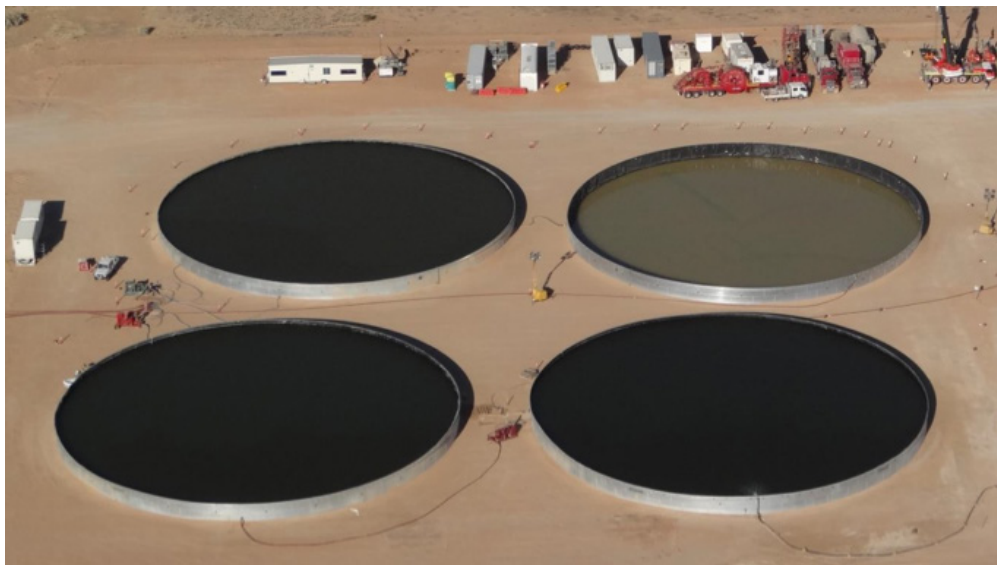
Water and wastewater management activities will involve above ground storage tanks for the management of both clean bore water and wastewater comprising flowback/produced water. Wastewater may be re-used as fluid for HFS of subsequent wells.

### Bore Water Storage

Above ground storage tanks with storage capacity up to 13.5 megalitres (ML) will be used to provide temporary storage of bore water for use by the Regulated Activity (e.g. HFS, civil works or camp supply). Source water will either be trucked or piped from water bores located nearby on, or adjacent to the well pad. The number of storage tanks will be subject to capacity of the bores and the drilling/ HFS demands of operations. It is anticipated that four tanks per site will be required, but this will be subject to operational drilling and stimulation demands, ranging from two to 10 tanks.

Small dosages of biocides may be added to control algal growth within these tanks, particularly under warm and stagnant conditions.

Figure 12: Above ground water storage at previous Santos well activities



### Storage of Flowback and Produced Water

After fracture stimulation has been completed, flowback activities will be conducted which allow flowback fluid and produced water to flow from the well. Nitrogen may be used to assist fluid recovery from the well if necessary, ensuring the well is cleaned of proppant and other residual material from the well. Flow from the well will be directed through a separator to capture fluids and separate gas to flare.

Once the injection process is complete, the internal pressure of the rock formation causes fluid to return, or 'flowback' to the surface through the well. Flowback fluid comprises stimulation fluid that flows back out of the well after the HFS process has been completed. Produced water comprises fluids naturally occurring within the target formation of a well, which may flow into a well. Flowback fluid and produced water are likely to come together within a well before the mixed fluid flows out of the well and into storage.

It is anticipated that 10-20 percent of stimulation fluid injected into the well will be recovered as flowback and will require onsite management. This proportion can fluctuate, and therefore the well pad has been sized to allow for additional onsite storage tanks to be installed if needed to ensure appropriate management of flowback.

The flowback water is typically stored in open tanks for treatment via evaporation (to reduce the overall volume of fluid) if the water is to be removed off site for disposal. If the water is to be re-used for subsequent HFS operations, the water would typically be stored in closed tanks. The water management is subject to various site conditions such as time of year, predicted rain and volumes of flowback received. The onsite water management will be done in accordance with the *Code of Practice: Onshore Petroleum Activities in the Northern Territory* (Northern Territory Government, 2025).

## 1.2.8 Water Use and Amended Water Extraction Licence

An amended Water Extraction Licence (WEL) will be required under the *Water Act 1992* to meet the maximum water demand of these two well pads. It is anticipated that the scope of works will require a WEL of up to 750ML per year. Anticipated water per activity is described below in [Table 3](#).

*Table 3: Estimated Water Use – Per Activity*

Activity	Water Use per Activity (ML)
Civils (pad and access)	15 ML per pad and access track
Drilling and Completions	60 ML per well
Fracture stimulation – Vertical (Vt)	8ML per well
Fracture stimulation – Horizontal (Hz)	145 ML per well
Other (e.g. dust suppression, evaporation etc)	4 ML per month per pad
Camp	5 ML per camp per year

The indicative schedule in [Table 4](#) shows a combined anticipated water use of activities that may occur during a year. Santos intends to submit an amendment application for its current WEL, increasing its existing 193.5ML allocation up to 750ML. Therefore, the Regulated Activity is not anticipated to exceed drilling and HFS of four appraisal wells per year, over a five-year period and will not exceed the proposed annual water extraction licenced volume of 750ML.

To fulfill the water demand requirements of hydraulic fracturing stimulation and subject to approval under the *Water Act 1992*, up to 10 water bores may be installed on, or in close proximity to each well pad. A two hectare area (in addition to the 15 hectare well pad) of disturbance has been included to allow for these water bores.

*Table 4: Indicative Water Extraction and Activity Schedule*

Year	Civils/ Other	Number of Wells and type	Max. annual water use (ML)
2026	Two pads and tracks Dust suppression / Camp	Three Horizontal wells OR Two Vertical + Two Horizontal wells	610ML
2027	Dust suppression / Camp	-	50ML
2028	Dust suppression / Camp	Four Horizontal wells	750ML
2029	Dust suppression / Camp	-	50ML
2030	Dust suppression / Camp	Four Horizontal wells	750ML

The total anticipated water extraction volume over the five-year drilling campaign, to construct and appraise up to 12 wells, is 2210 ML.

Once the wells have been constructed and all HFS operations are complete, water demand would be very minimal and comprise water use required for track and well pad maintenance and camp supply.

## 1.2.9 Summary of New Activity

Table 5: Summary of Activity

Activity	Parameter	Description
Construction	Construction of two new well pads and ancillary facilities	<ul style="list-style-type: none"> <li>Clearing, earthworks, construction, operation, modification, decommissioning, dismantling or removal of a well pad.</li> <li>Well pad disturbance to be 15 hectares for each well pad (excluding areas for access track, gravel pits and monitoring bores).</li> <li>This includes a footprint encapsulating well operations, laydowns, water management facilities and offices.</li> </ul>
	Hours of operation	<ul style="list-style-type: none"> <li>Construction works will occur 6am to 6pm, seven days a week until complete.</li> </ul>
	Access tracks	<ul style="list-style-type: none"> <li>Utilising existing approved tracks as far as reasonably practicable.</li> <li>For new access tracks proposed to be constructed, a 6m carriageway and generally 10m road corridor to allow for vehicle/rig movement, capping, drainage improvements and general maintenance. This may extend to 20m where required for additional drainage treatment.</li> </ul>
	Borrow pits	<ul style="list-style-type: none"> <li>At each well pad, two hectare borrow pits will be required. These will be sited where suitable material is available and in close proximity to the pad.</li> </ul>
	Groundwater bores	<ul style="list-style-type: none"> <li>Up to 10 new water bores may be constructed at each well pad in accordance with <i>Minimum Construction Requirements for Water Bores in Australia (Edition 4)</i>.</li> <li>The two existing water bores at Jibera South will be utilised where practical.</li> <li>Two hectares of additional footprint for the construction of monitoring and extraction bores immediately adjacent to the well pads.</li> </ul>
Well pad	Chemical and fuel storage	<ul style="list-style-type: none"> <li>Dangerous Goods and Hazardous chemicals, fuel and material storage areas will be set up at each site.</li> </ul>
	HFS Equipment layout	<ul style="list-style-type: none"> <li>The HFS equipment will be set up on the well pad which includes completions rig and equipment, well testing equipment and other associated equipment at each site.</li> </ul>
	Stormwater management	<ul style="list-style-type: none"> <li>Stormwater infrastructure such as swales and retention pond may be installed as informed from the erosion and sediment control plan.</li> </ul>
	Offices	<ul style="list-style-type: none"> <li>Site offices will be installed for operational management of the site.</li> </ul>
Accommodation	Camp facilities	<ul style="list-style-type: none"> <li>A temporary camp will be constructed at each appraisal well pad site for the duration of the well construction, drilling and HFS activities. At peak operation the camp is not expected to accommodate more than ~80 people.</li> <li>A smaller temporary camp may be required during the flowback management period and other ancillary activities, located within the same well pad.</li> <li>Any camp will be located within the 15 hectare well pad footprint and will be sized according to operational needs.</li> <li>Facilities at a typical camp include accommodation, workshop, ablutions and septic waste treatment, kitchen and mess, freezer unit, site office, generator and fuel storage and water tank.</li> <li>Camps will be temporary, utilising camp modular buildings.</li> </ul>

Table 5: Summary of Activity (continued)

Activity	Parameter	Description
Drilling	A total of 12 wells, comprising of up to 11 Horizontal wells and/ or two Vertical wells	<ul style="list-style-type: none"> <li>• These wells will be delivered consecutively across the two well pad sites proposed. The type and number of wells will vary across each site, dependent on appraisal results.</li> <li>• Will not exceed a total of 12 wells.</li> </ul>
	Hours of operation - per well	<ul style="list-style-type: none"> <li>• Drilling will occur 24hrs a day/ seven days a week for an anticipated eight-week period per well.</li> </ul>
Hydraulic Fracture Stimulation (HFS)	All wells will have HFS	<ul style="list-style-type: none"> <li>• Completion of hydraulic stimulation along each horizontal well.</li> <li>• There will be between 10-75 HFS stages per well.</li> <li>• Average of 60-stages per well depending on horizontal length.</li> <li>• Recycling and flowback wastewater for stimulation fluid makeup to reduce raw water use.</li> <li>• Vertical wells will be approximately four stages of HFS.</li> </ul>
	Hours of operation - per well	<ul style="list-style-type: none"> <li>• HFS will occur 24hrs a day/ seven days a week for an anticipated four to eight-week period per well.</li> </ul>
Well testing	One flare per well pad	<ul style="list-style-type: none"> <li>• Gas flaring in accordance with Code of Practice requirements and as per United States Environment Protection Agency (US EPA) 40 Code of Federal Regulations (CFR) 63.11.</li> <li>• All flaring will comply with Methane Emission Management Plan as part of the EMP. The maximum period of flaring for each flare will be a total of 300 days operating either on a continuous or intermittent basis. The potential for the future beneficial use of the gas is being investigated and would be subject to future approvals.</li> </ul>
Well workovers and well interventions	Any activities on the well that require well head to be removed	<ul style="list-style-type: none"> <li>• May require a drilling rig or other plant over a well.</li> <li>• The workover or well interventions may include subsurface barrier maintenance/ installation, downhole or wellhead equipment replacement, well pressure testing and measuring or downhole well logging (i.e. flowrates and temperatures).</li> </ul>
Groundwater extraction	750ML per year across both sites	<ul style="list-style-type: none"> <li>• Extraction of groundwater from water bores.</li> <li>• Bore water storage in above ground, open top storage tanks.</li> </ul>
Site logistics	Road transportation	<ul style="list-style-type: none"> <li>• All bulk materials transported and delivered to site via road transport.</li> </ul>
	Traffic	<ul style="list-style-type: none"> <li>• Approximately 45 traffic movements (15 heavy vehicles and 30 light vehicles) expected per day during peak activities at each site (both heavy and light vehicle traffic).</li> <li>• Majority of traffic movements expected to be local, i.e. between camp and well site.</li> </ul>
	Airstrip	<ul style="list-style-type: none"> <li>• The airstrip adjacent the Tanumbirini Homestead may be used for crew changes, emergency response evacuations and transport of some small goods.</li> </ul>

Table 5: Summary of Activity (continued)

Activity	Parameter	Description
On-site wastewater management	Storage	<ul style="list-style-type: none"> <li>Tanks for flowback management to meet storage requirements onsite for each well.</li> <li>Tank storage will be within the 15 hectare site and managed in line with the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>Wastewater that is not to be re-used will be removed from site for disposal at an appropriately licenced waste management facility.</li> <li>Waste water bund to contain 110% of the volume of largest tank.</li> </ul>
Sewage Treatment	Effluent	<ul style="list-style-type: none"> <li>A small modular Sewage Treatment Plant will be used to manage camp wastewater.</li> <li>This will be treated and disposed of via a nearby dedicated irrigation area.</li> <li>The site will be fenced to restrict stock.</li> </ul>
Well site decommissioning and rehabilitation	All infrastructure and disturbed areas	<ul style="list-style-type: none"> <li>Wells will be decommissioned in accordance with the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) once the well is no longer required.</li> <li>Once they are no longer required, all surface infrastructure will be decommissioned and removed from site, for example camps, sumps, tanks, cellars, and any ancillary surface equipment.</li> <li>When either this EMP, or subsequent revisions no longer permit the activity, or when they are no longer required, all disturbed areas will be reinstated and rehabilitated to match surrounding landscape.</li> <li>Rehabilitation and decommissioning by Santos may not occur where agreement with Pastoral Lease Holder and approval by government is granted to transfer ownership of an asset to the Pastoral Lease Holder.</li> </ul>

### 1.2.10 Previously Approved Regulated Activity Incorporated into the Beetaloo Appraisal EMP

As described within section 1.2.2, regulated activity's currently underway on EP 161 will be incorporated into this Beetaloo Appraisal EMP. The description of the Regulated Activity from previously approved EMPs are provided below in [Table 6](#).

The location of this Regulated Activity is identified in [Figure 2](#) and [3](#).

*Table 6: Summary of Previously Approved Regulated Activity incorporated into the Beetaloo Appraisal EMP*

Scope Definition	EMP Name	Description addressed
Well integrity monitoring	McArthur Basin 2019 Drilling Program	Section 1.2.10.1-1.2.10.3
Suspension and/or plugging and decommissioning of Tanumbirini-2H		
Rehabilitation of the Tanumbirini-1 and Tanumbirini-2H wells		
Evaluation of Tanumbirini-3H (including mudlogging, wireline/LWD, DFIT, and coring)		
Suspension and/or plugging and decommissioning of Tanumbirini-3H	Revised and added program in STO 2-7	Section 1.2.10.1-1.2.10.3
Rehabilitation of the Tanumbirini-3H well		
Civil engineering activity - maintenance of roads and access tracks, areas, campsites, and tank pads		
Rehabilitation of a 10km 2D seismic line		
The reprofiling of access tracks and lease pads	McArthur Basin Civil and Seismic Program	Section 1.2.10.1 and 1.2.10.4
Use of existing borrow pits		
Rehabilitation of 240km of seismic lines and 10km of connection lines)	EP 161 2D Seismic and Ground Gravity Survey Program	Section 1.2.10.4

The above table relates to ongoing works associated with the previously approved Regulated Activity. A description of the ongoing, previously approved Regulated Activities is provided below.

#### 1.2.10.1 Civil Engineering Activity

An overview of remaining civil engineering activity to be covered by the Beetaloo Appraisal EMP includes:

- Civil work will be required for ongoing maintenance of roads, campsite, laydowns areas and wellsite. This consists of grading, watering (coursed from bores) and minor patching
- Borrow pits as approved under the McArthur Basin Civil and Seismic Program EMP will continue to be utilised for civil works as required
- Existing water bores constructed will continue to be used and water stored as required. This could be in tanks or in a constructed dam for storage and use
- The landowner airstrip adjacent the Tanumbirini Homestead may be used for crew changes, transportation of small goods and emergency response evacuations. The 1,400m length airstrip, is a dry weather strip and contains no lighting and is regularly used to deliver landowner mail and may be used by other private aircraft
- The airstrip surface is unsealed and requires annual maintenance to control termite mound growth, repair erosion and remove vegetation which has emerged. Proposed works on the airstrip include airstrip maintenance grading and rolling of the entire runway, parking and signal areas to restore surface and repair any minor erosion following the wet season. In addition, regular maintenance watering may be required on the airstrip access and runway to maintain the surface and control dust
- The reprofiling of constructed access tracks and lease pads to service Tanumbirini and Inacumba as per [Figure 2](#) will continue, until rehabilitation occurs.

#### 1.2.10.2 Diagnostic Fracture Injection Test (DFIT)

The Tanumbirini existing wells (as described under STO-7) may undertake cased hole Diagnostic Fracture Injection Tests (DFITs) to evaluate the geomechanical and reservoir properties of the targeted formation to determine the suitability and capacity of these formations for potential gas extraction activities. This will be included within the Beetaloo Appraisal EMP.

DFITs are small-scale pressure tests used to evaluate key reservoir properties, particularly in unconventional plays like shale gas. A DFIT involves injecting a small volume of fluid into the target reservoir at a constant rate to initiate a small fracture. After injection, the well is shut in and pressure decline is monitored. The results reveal important characteristics such as minimum in-situ stress, reservoir permeability, pore pressure, and fracture closure pressure. These insights are critical for designing effective hydraulic fracturing stimulation (HFS) treatments and optimising reservoir development.

### 1.2.10.3 Well Suspension/ Plugging and Abandonment

The following requirement within STO 2-7 McArthur Basin Drilling Program may occur post well evaluation. Once appraisal scope is complete, the wells at Tanumbirini will either be used to produce gas on an ongoing basis, or :

- the well will be suspended with cemented production casing and a 15 kpsi well-head for future re-entry; or
- the well will be decommissioned with permanent cement plugs installed in the well as per regulatory requirements.

Given the ongoing appraisal scope being undertaken by Santos, these wells will either commence production, have well suspension occur or be decommissioned.

As part of the well suspension process, wellbore barriers will be put in place as per Santos internal procedures and Northern Territory regulatory requirements. A Well Integrity Monitoring Plan will be put in place for any suspended well for monitoring of wellbore barriers. Upon long term suspension, the well pad will be decreased in size to facilitate natural rehabilitation and revegetation process.

As part of well decommissioning process, cement plugs will be permanently placed in the well, the wellhead removed, leases and roads rehabilitated. This will be done in accordance with the *Code of Practice: Well Integrity* (Northern Territory Government, 2025) and included into the Beetaloo Appraisal EMP.

### 1.2.10.4 Civil and Seismic Rehabilitation

Requirements from previous EMPs will be incorporated in the Beetaloo Appraisal EMP for civil and seismic rehabilitation. This includes that all surface infrastructure will be removed and rehabilitated.

After well suspension or the well is no longer required, the following activities will be undertaken:

- Removal of fencing
- Back filling of pits, specifically:
  - Water bore holding ponds to be drained of liquids
- Lightly scarifying or rolling all disturbed areas to break up consolidated surfaces
- Spreading of stockpiled topsoil material and trees, shrubs and grasses across the lease pad and areas not needed for future monitoring and maintenance

- Ripping and spreading of stockpiled vegetation at the water bore site to promote revegetation
- Removal of fencing and water bore pumps from water bores. Any reusable materials and pumps to be delivered to the landholder, otherwise decommissioned in accordance with the licence
- Repair or reinstate any landholder infrastructure damaged due to civil activities.

Following completion of the final photo point revisit and any required additional rehabilitation, Santos will submit the final Environmental Reports to DLPE along with the application to release the long-term Rehabilitation Security. In accordance with the *Environmental Closeout Procedures for Petroleum Activities* (DPIR 2016), the final rehabilitation assessment and endorsement will be conducted by an appropriately qualified third party.

Rehabilitation and decommissioning by Santos may not occur where agreement with Pastoral Lease Holder and approval by government is obtained to transfer ownership of an asset to the Pastoral Lease Holder.

### 1.2.11 Future Sale of Appraisal Gas

Santos is currently investigating the feasibility of beneficially using the appraisal gas which will require facilities, gathering lines and a pipeline to enable gas transportation for sale. This would reduce the need for flaring and will consequently reduce emissions. If assessed to be feasible, Santos will progress the relevant endorsement and approvals required for the use of appraisal gas (including those required pursuant to section 57AAA of the *Petroleum Act 1984*).

Any future proposed gathering lines, facilities or transport pipeline will be the subject of other approvals in respect of which there will be further stakeholder engagement in accordance with regulation.

## 2 How might our stakeholders be affected by our activities?

### 2.1 Environmental Outcomes, Impacts and Risks

Potential environmental impacts and risks associated with the Regulated Activity are summarised in [Table 7](#). This information will also be provided in the Beetaloo Appraisal EMP covering the proposed Regulated Activity, which will be submitted to the DLPE for formal assessment and approval.

[Table 7](#) also identifies the proposed environmental outcomes in relation to the Regulated Activity. Under the PER, an environmental outcome means an outcome that will be achieved if the environmental impacts and environmental risks of a Regulated Activity are reduced to a level that is As Low As Reasonably Possible (ALARP) and is acceptable. This will be achieved via undertaking the activities in particular way, for example by implementing mitigation and management measures which minimise the environmental impact and risks. The proposed mitigation and management measures for each environmental risk is also shown in [Table 7](#).

### 2.2 Possible Consequences to Stakeholder Rights and Activities

In accordance with Regulation 7(2) of the PER, Santos is required to give stakeholders information about the possible consequences of carrying out the Regulated Activity on their rights or activities.

Where Santos has established infrastructure, such as well pads, camp pads, gravel pits and access tracks to carry out the Regulated Activity, this results in a loss of that area that stakeholders can use. Access to demarcated zones around the well pad is also restricted, to ensure stakeholder and community safety. A summary of the corresponding possible consequences on Stakeholders rights or activities and proposed mitigating control measures are summarised in [Table 7: Risks, Consequences and Performance Outcomes](#).

All impacts are anticipated to be restricted to the immediate vicinity of the proposed activities, with no long term or material reduction in environmental quality anticipated.

As part of this Beetaloo Appraisal EMP, drilling is anticipated to commence in 2026 and will occur concurrently at both the proposed well pads (i.e. two drill rigs). It is anticipated that all proposed wells will be drilled over the five-year period. Upon cessation of activities, rehabilitation will occur to bring any disturbed land back to a state consistent with the pre-disturbed level (unless otherwise approved or agreed with the landowner).

Table 7: Risks, Consequences and Performance Outcomes

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Dust nuisance from the Activity</b>	<ul style="list-style-type: none"> <li>Reduction in air quality.</li> <li>Smothering of flora.</li> <li>Loss of amenity.</li> <li>Impacts to community health.</li> </ul>	<ul style="list-style-type: none"> <li>Dust resulting in reduced localised air quality.</li> <li>Dust drift onto nearby vegetation may result in a temporary reduction in yield.</li> <li>Health impacts to livestock, workers and farmers, such as respiratory irritation or eye issues.</li> <li>Increased maintenance and cleaning requirements due dust deposition on farming equipment, infrastructure and homestead.</li> <li>Disruption to farm operations from reduced visibility.</li> </ul>	<ul style="list-style-type: none"> <li>Retain vegetation via minimal disturbance practices.</li> <li>Progressive rehabilitation at the cessation of activity.</li> <li>Access tracks selected to minimise interactions with Tanumbirini Homestead to minimise interactions with landowner operations.</li> <li>Use of pre-existing tracks to access the well pad, campsite, and gravel pit/s to avoid new clearing.</li> <li>A 60km/hr speed limit on unsealed roads and project access tracks will be implemented.</li> <li>Dust suppression measures will be implemented in the Project Area during periods of high traffic and high dust.</li> </ul>	No significant negative impact on community.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Physical disturbance to heritage items and places from clearing and vehicle and plant movements</b>	<ul style="list-style-type: none"> <li>• Damage to Aboriginal artefacts and/or cultural heritage sacred sites.</li> </ul>	<ul style="list-style-type: none"> <li>• Restricted land use in areas of identified sacred sites, or of cultural significance.</li> <li>• Work stoppages or delays, affecting access, operations or planned farming activities.</li> <li>• Increased monitoring and oversight, potentially disrupting routine farming operations.</li> </ul>	<ul style="list-style-type: none"> <li>• Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• Cultural heritage field surveys undertaken to inform site selection.</li> <li>• Preferential use of pre-existing access tracks, campsite, gravel pit/s and well pad to limit new disturbance.</li> <li>• Existence of restricted areas are to be reviewed (desktop) prior to the Activity to verify these areas will not be breached as per the prescribed management recommendations of the Aboriginal Areas Protection Authority (AAPA) certificate.</li> <li>• Following construction, all vehicles must stay on designated approved access tracks.</li> <li>• Proposed Activity included in an AAPA certificate.</li> <li>• Identified artefacts discovered via the assessment processes will be mapped for avoidance, but locations are to be redacted from publicly available reports. Declared areas and sites to be excluded from clearing.</li> <li>• Inductions are to cover the importance of reporting all potential artefacts or cultural heritage sites.</li> <li>• Site surveys include Traditional Owners to inform assessments.</li> <li>• Prior to commencing work, workers must understand the unexpected finds protocol and activity specific cultural heritage management procedures (including details of AAPA and assessment).</li> <li>• Site selection process utilised AAPA and on ground survey results to achieve avoidance of impact.</li> <li>• Application of Santos new find protocol for any uncovered unexpected heritage finds.</li> <li>• The activity is to be undertaken in accordance with the EMP's Cultural Heritage Assessment.</li> <li>• Workers must not move or remove cultural heritage items.</li> </ul>	No significant impact on indigenous and non-indigenous artefacts, sacred or heritage sites.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
<p>Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure</p>	<p><b>Increased erosion and sediment release from cleared infrastructure areas during project operations.</b></p>	<ul style="list-style-type: none"> <li>Erosion of soil due to loss of vegetation cover.</li> <li>Sediment release from cleared infrastructure during project operations.</li> <li>Inversion of soil profile.</li> <li>Dust generation.</li> </ul>	<ul style="list-style-type: none"> <li>Loss of topsoil, reducing soil fertility and pasture productivity.</li> <li>Sedimentation of water sources, affecting water quality for irrigation and livestock.</li> <li>Damage to farm infrastructure such as fences, tracks or drainage systems.</li> <li>Increased land requiring rehabilitation.</li> </ul>	<ul style="list-style-type: none"> <li>Erosion and sediment control in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>An Erosion and Sediment Control Management Plan developed by a suitably qualified person and included as part of the EMP.</li> <li>A Rehabilitation Management Plan developed and included as part of the EMP. Controls implemented as per the plan.</li> <li>Site selection has avoided poor draining soils and crossed flood zones at 90 degrees as far as reasonably practicable.</li> <li>Water within secondary containment will be tested and reused if deemed suitable.</li> <li>Site selection and design of access tracks, well pad, campsite and borrow pits placed, where possible, to avoid erosion, e.g. outside of natural flow paths, outside of the one to 100 flood zone.</li> <li>Site selection and design of access tracks, well pad, campsite and borrow pits placed, where possible, to avoid erosion.</li> <li>Well pad constructed with a bund/berm to divert water from going on-site and facilitate water flow from on-site to catchment areas during rainfall events.</li> <li>Erosion and sediment controls will be installed, maintained, and monitored as per the site-specific Erosion and Sediment Control Plan.</li> <li>Inductions will cover the importance of reporting all environmental incidents, inc. spills and sediment releases.</li> <li>Temporary erosion and sediment control measures will be maintained until final rehabilitation has commenced.</li> <li>Rehabilitation will include respreading topsoil where pits are rehabilitated once no longer required by the activity.</li> <li>Weather checked daily to determine if the Activity can commence.</li> <li>Seismic lines will be inspected for erosion during rehabilitation activity.</li> </ul>	<p>No significant long-term impact on soil stability, quality, or surface water.</p>

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Changes to the land profile and compaction of soils</b>	<ul style="list-style-type: none"> <li>• Compaction of soils due to vehicle and equipment movement.</li> <li>• Impact to variety and integrity of local landforms.</li> </ul>	<ul style="list-style-type: none"> <li>• Access to the well pad and ancillary infrastructure will be limited for the duration of the planned activities.</li> <li>• Altered drainage patterns leading to waterlogging or increased runoff that can increase localised erosion.</li> <li>• Soil compaction or degradation affecting plant growth and pasture productivity.</li> <li>• Disrupted access routes, making it harder to move livestock, machinery or vehicles.</li> <li>• Fragmentation of paddocks, reducing operational efficiency and increasing management complexity.</li> </ul>	<ul style="list-style-type: none"> <li>• Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• Following construction, all vehicles must stay on designated approved access tracks.</li> <li>• Infrastructure designed in accordance with the <i>NT Land Clearing Guidelines</i> [DEPWS, 2020, 2021].</li> <li>• Rehabilitation will include respreading topsoil where pits are to be rehabilitated.</li> <li>• Primary access to the well pad, borrow pit and campsite via existing tracks to limit new clearing.</li> <li>• Site selection of access tracks that are not pre-existing, that may intersect watercourses will cross at right angles with bend and bank contours maintained to avoid Groundwater Dependent Ecosystems.</li> <li>• Site selection of Jibera South in close proximity to previously installed groundwater bores and on flat terrain.</li> <li>• A project buffer zone in place to aid in selecting the most traversable area to place access tracks and final well pad location.</li> </ul>	No significant long-term impact on soil stability and quality.
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Disruption of natural drainage lines</b>	<ul style="list-style-type: none"> <li>• Impacts to local hydrological processes.</li> <li>• Uncontrolled release due to flooding or overland flow.</li> </ul>	<ul style="list-style-type: none"> <li>• Altered drainage patterns leading to waterlogging or increased runoff that can increase localised erosion.</li> <li>• Sedimentation of water sources, affecting water quality for irrigation and livestock.</li> </ul>	<ul style="list-style-type: none"> <li>• Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• Jibera South and Newcastle South have been located in areas where it is anticipated that no riparian clearing will be required.</li> <li>• Site has been located four and a half kilometres (Newcastle South) and six kilometres (Jibera South) from the nearest Stream Order 1 watercourse.</li> <li>• Flood modelling used for site selection for siting of the well pad and key operational infrastructure outside of a Q100 ARI event.</li> <li>• Velocity modelling completed to ensure well pad located in areas where overland flow will not impact key erosion controls.</li> <li>• The site has been designed to minimise any potential release of contaminants to the environment.</li> <li>• All-terrain vehicles used do not require formed watercourse crossings and do not cause major disturbance.</li> <li>• Any required work on Line 12 of the Seismic Line will not be undertaken in wet conditions.</li> <li>• Seismic lines will be inspected for erosion during rehabilitation activity.</li> </ul>	No significant long-term impact on soil stability, quality, or surface water.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Impacts to populations of threatened species</b>	<ul style="list-style-type: none"> <li>Adversely affecting critical habitat or the breeding pattern of threatened species.</li> </ul>	<ul style="list-style-type: none"> <li>Potentially increasing pests (i.e. rodents, insects) if natural predators are displaced.</li> </ul>	<ul style="list-style-type: none"> <li>Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>New disturbance areas ground truthed within project area to maximise route of minimal impact for access tracks.</li> <li>Fauna spotter to precede clearing activities to identify any presence of threatened species nests within or visually adjacent to the project area.</li> <li>Fauna spotter to be present during clearing activities.</li> <li>Clearing of large hollow-bearing trees with a trunk diameter greater than 25 centimetres at 1.3 metres above the ground avoided where possible.</li> <li>Any threatened species identified during clearing will be managed via self-relocation or active relocation by the onsite fauna spotter-catcher.</li> </ul>	No significant impact to threatened flora or fauna species, their habitat or sites of conservation significance resulting from conduct of the Regulated Activity.
Clearing and Earthworks for Well Pad Creation and Ancillary Infrastructure	<b>Physical disturbance to native vegetation including clearing and vehicle and plant movements</b>	<ul style="list-style-type: none"> <li>To habitat features/ areas for flora and fauna.</li> <li>Impacts to terrestrial environmental quality.</li> <li>Erosion of soil due to loss of vegetation cover.</li> <li>Sediment release from cleared infrastructure during project operations.</li> </ul>	<ul style="list-style-type: none"> <li>Potential loss of viable agricultural land.</li> <li>Compaction of soil due to clearing and vehicle movements.</li> <li>Increase erosion and soil degradation reducing land productivity and increase maintenance.</li> <li>Loss of windbreaks and shade for livestock.</li> </ul>	<ul style="list-style-type: none"> <li>Erosion of sediment control in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>An Erosion and Sediment Control Management Plan developed by a suitably qualified person and included as part of the EMP. Controls implemented as per the plan.</li> <li>A Rehabilitation Management Plan developed and included as part of the EMP. Controls implemented as per the Plan.</li> <li>Avoidance of higher value habitat or minimise community disturbance for species of concern.</li> <li>Access track designed to avoid large mature trees and termite mounds as far as reasonably possible.</li> <li>Well pads have been located in plant communities that generally have a lower hollow availability due to species composition.</li> <li>Utilising and re-establishing existing access tracks to travel between sites to minimise new disturbance.</li> <li>Avoid disturbance of previously undisturbed native vegetation by utilising previously cleared areas to limit disturbance.</li> <li>Topsoil will be stockpiled for respreading to facilitate natural regeneration during progressive rehabilitation once all well operations have ceased.</li> <li>Clearing of riparian zones buffers are not anticipated for the well pad, campsite and gravel pits.</li> <li>Optimised and progressive well pad design reducing overall disturbance area from 64 hectares to 15 hectares (excluding ancillary infrastructure).</li> <li>Jibera South co-located with existing disturbed areas of access tracks and water bore pad.</li> <li>Newcastle South well pad located to utilise existing access track off Carpentaria Highway.</li> <li>Any threatened species identified during clearing will be managed via investigating the relocation by the onsite fauna spotter.</li> </ul>	No significant impact on threatened ecological communities.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Drilling Activities	<b>Uncontrolled release of gas or fluid to surface or aquifers</b>	<ul style="list-style-type: none"> <li>Contamination of aquifers - impact to environmental receptors.</li> <li>Loss of formation/aquifer pressure.</li> <li>Uncontrolled release of fluids to surface resulting in localised disturbance.</li> </ul>	<ul style="list-style-type: none"> <li>Soil and water contamination potentially rendering land temporarily or permanently unsuitable for crops or grazing.</li> <li>Health risks to livestock from exposure to or ingestion of spilled substances.</li> <li>Interruption to farm operations including access during cleanup and containment.</li> <li>Economic loss from damaged produce, reduced productivity, or the need to relocate stock.</li> </ul>	<ul style="list-style-type: none"> <li>A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos and approved by the regulator prior to implementation.</li> <li>Implementation of the Spill Management Plan, contained within the EMP.</li> <li>Drilling fluid and Loss Circulation Material additives are to be available to maintain mud weight/consistency to prevent or remediate losses.</li> <li>A groundwater pit or storage tank will be located on the well pad.</li> <li>Sufficient nearby water bores will be installed to support water requirements for drilling activity.</li> <li>Monitoring of drilling fluids for gains/losses will be ongoing during drilling activity.</li> <li>Drilling additives selected and utilised based on manufacturer's recommendations and safety data sheets.</li> <li>Drilling fluid additive name, type and quantity will be recorded.</li> <li>When drilling through shallow aquifers, non-toxic additives will be utilised.</li> <li>Drilling fluid additives not to contain BTEX above the levels prescribed in B.5 of the Code while drilling through shallow aquifers.</li> <li>Effective barriers exist to maintain well control and prevent crossflow between separate aquifer systems or hydrocarbon reservoirs.</li> <li>Shallow Aquifers isolated behind casing and cement barriers before drilling of the target formation.</li> <li>Operational reports verify that barriers have been set and/or remedial cement work carried out in accordance with the work program.</li> <li>Santos Well integrity Management System &amp; checks to confirm well integrity through well life performed by dedicated Well Integrity crews.</li> <li>Utilisation of existing Santos logged well installation, and water bore data to inform proposed well design and installation.</li> </ul>	No significant impact on groundwater quality or quantity.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Drilling Activities	<b>Cross contamination between aquifers through inappropriate barrier controls and implementation</b>	<ul style="list-style-type: none"> <li>Contamination of aquifers – impact to environmental and or human health receptors.</li> <li>Crossflow between formations.</li> <li>Loss of formation pressure.</li> </ul>	<ul style="list-style-type: none"> <li>Loss of clean water supply for irrigation, livestock and domestic use.</li> <li>Disruptions during investigations, monitoring or remediation efforts.</li> <li>Impacts to farming operations and production due to impacts from poor water quality.</li> </ul>	<ul style="list-style-type: none"> <li>A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos and approved by the regulator prior to implementation.</li> <li>Well Design, including aquifer isolation and well barrier requirements, will comply with <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025).</li> <li>Cement slurry and pumping schedule designed by qualified and competent engineers and confirmed by senior engineers or external consultants where necessary.</li> <li>Cement bond log on casing cement prior to completions activity or as required.</li> <li>Remedial cementing where required.</li> <li>Effective barriers exist to maintain well control and prevent crossflow between separate aquifer systems or hydrocarbon reservoirs.</li> <li>Drilling casings installed to reduce risk of crossflow and contamination.</li> <li>Monitoring of drilling fluids for gains/losses will be ongoing during drilling activity.</li> <li>Quality Control during cement job execution.</li> <li>Competent site personnel and contractors on site at all times during drilling.</li> <li>Continued competency assessment, education and training of individuals responsible for activity associated with drilling and workovers.</li> <li>HFS to occur in Target shale &gt;2500mTVD below shallow accessible aquifers.</li> </ul>	No significant impact on groundwater quality or quantity.
Drilling Activities	<b>Naturally occurring radioactive materials (NORM) in flowback fluids and/ or radioactive tracers in cuttings</b>	<ul style="list-style-type: none"> <li>Contamination of surface water, soil and or shallow groundwater resources.</li> </ul>	<ul style="list-style-type: none"> <li>Health concerns for farmers and workers due to prolonged exposure to radioactive materials.</li> <li>Contamination risk to soil and water, potentially affecting crop health and livestock safety.</li> <li>Disruption to operations from monitoring, containment or cleanup activities.</li> </ul>	<ul style="list-style-type: none"> <li>Assessment and management of NORMs in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>A Wastewater Management Plan developed and included in the EMP. All controls of the Wastewater Management Plan to be implemented.</li> <li>Flowback pits (if constructed) are lined to prevent soil and shallow groundwater resource contamination.</li> <li>Monitoring in accordance with the Santos standards at operational sites to confirm that levels are acceptable.</li> <li>Approved drill cutting reuse methodology implemented.</li> <li>Drill cuttings managed in accordance with approved procedure and any required controls.</li> </ul>	No significant long-term impact on soil stability, quality, or surface water.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Hydraulic Fracturing Stimulation and Well Testing	<b>Cross contamination between aquifers through water stimulation fracturing allow migration of fluids between geological layers</b>	<ul style="list-style-type: none"> <li>• Crossflow between formations.</li> <li>• Loss of formation pressure.</li> </ul>	<ul style="list-style-type: none"> <li>• Loss of clean water supply for irrigation, livestock and domestic use.</li> <li>• Disruptions during investigations, monitoring or remediation efforts.</li> <li>• Impacts to farming operations and production due to impacts from poor water quality.</li> </ul>	<ul style="list-style-type: none"> <li>• A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos and approved by the regulator prior to implementation.</li> <li>• Drilling casings installed to reduce risk of crossflow and contamination.</li> <li>• Formation evaluation program and drilling program in place as per the <i>NT Governments 2025 Code of Practice - Well Integrity</i>.</li> <li>• Competent site personnel and contractors on site at all times.</li> <li>• Continued competency assessment, education and training of individuals responsible for the activity associated with drilling activity and engagement with relevant regulatory agency where required.</li> <li>• Appropriate emergency response plans in place.</li> <li>• Emergency spill response equipment on site.</li> <li>• Restricted access to site by fence and cattle grid.</li> <li>• Continuous observation and procedures in place to detect problems while testing.</li> <li>• During HFS activity, conduct regular inspections of pits, tanks, separators and sumps while testing.</li> <li>• Consultation with relevant regulatory agencies where required.</li> <li>• Local Lithology between targeted shale and sandstone partial aquifers contains interlaminated mudstone and siltstone lithology reducing permeability from any HFS crossflow outside targeted layers.</li> <li>• Modelling and monitoring of HFS to occur in line with NT guidelines.</li> <li>• Ongoing monitoring of fracturing during activity.</li> </ul>	No significant impact on groundwater quality on groundwater quality or quantity.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Hydraulic Fracturing Stimulation and Well Testing	<b>Uncontrolled release to surface due to down hole production failure</b>	<ul style="list-style-type: none"> <li>Impact to environmental and / or human health receptors.</li> <li>Uncontrolled release of fluids (liquid or gas) to surface.</li> <li>Contamination of soil and / or watercourses.</li> <li>Impact to native vegetation.</li> <li>Loss of reserves and reservoir pressure.</li> </ul>	<ul style="list-style-type: none"> <li>Soil and water contamination potentially rendering land temporarily or permanently unsuitable for crops or grazing.</li> <li>Health risks to livestock from exposure to or ingestion of spilled substances.</li> <li>Interruption to farm operations including access during cleanup and containment.</li> <li>Economic loss from damaged produce, reduced productivity, or the need to relocate stock.</li> </ul>	<ul style="list-style-type: none"> <li>A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos and approved by the regulator prior to implementation.</li> <li>Wastewater management in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>A Wastewater Management Plan developed and included in the EMP. All controls of the Wastewater Management Plan to be implemented.</li> <li>Down hole production equipment designed to meet pressure, temperature, operational stresses and loads.</li> <li>Appropriate containment barriers in place.</li> <li>Blowout preventers (BOP) used once surface casing is installed.</li> <li>Continued competency assessment, education and training of individuals responsible for the activity associated with drilling and workovers.</li> <li>Monitoring programs implemented (e.g. through well logs, pressure measurements, casing integrity measurements and corrosion monitoring programs) to assess condition of casing.</li> <li>Where integrity monitoring identifies potential issues, a risk assessment to evaluate safety and environmental impacts is undertaken to develop prevention and mitigation controls where appropriate.</li> <li>Minimisation of water use during drilling and workover operations by recirculating water.</li> <li>Compliance with water licence and allocations where applicable.</li> <li>Drilling pits (sump) will be lined with an impermeable membrane that meets the requirements of the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> </ul>	No significant impact on groundwater quality on groundwater quality or quantity.
Water Management, Infrastructure and Treatment	<b>Entrapment of fauna or stock in flowback ponds, open water bodies</b>	<ul style="list-style-type: none"> <li>Entrapment of fauna resulting in injury or death.</li> </ul>	<ul style="list-style-type: none"> <li>Potential injury or death of livestock.</li> </ul>	<ul style="list-style-type: none"> <li>Wastewater management in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>A Wastewater Management Plan developed and included in the EMP. All controls of the Wastewater Management Plan to be implemented.</li> <li>Fauna ladders will be installed in drilling pits (sumps).</li> <li>Routine monitoring of the drilling pits during operations by the site team.</li> <li>Post operations pit monitoring remotely with telemetry/camera.</li> <li>Suitably qualified person to assist if trapped fauna are identified.</li> <li>Embankment of pits will have a suitable gradient to allow fauna exit.</li> <li>Site fenced to minimise stock interaction.</li> <li>Decommissioning sumps to occur as soon as reasonably possible after project.</li> </ul>	No significant impact to threatened flora or fauna species, their habitat or sites of conservation significance resulting from conduct of the Regulated Activity.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
<p>Water Management, Infrastructure and Treatment</p>	<p><b>Loss of containment of produced completions fluids, examples include;</b></p> <ul style="list-style-type: none"> <li>• <b>Overflow of flowback tanks and sumps</b></li> <li>• <b>Tank failure (including structural failure)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Localised contamination of soil.</li> <li>• Contamination of water resources (surface and shallow groundwater resources).</li> <li>• Injury or fatality of stock and wildlife</li> <li>• Damage to native vegetation.</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water contamination potentially rendering land temporarily or permanently unsuitable for crops or grazing.</li> <li>• Health risks to livestock from exposure to or ingestion of spilled substances.</li> <li>• Interruption to farm operations including access during cleanup and containment.</li> <li>• Economic loss from damaged produce, reduced productivity, or the need to relocate stock.</li> </ul>	<ul style="list-style-type: none"> <li>• A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos, and approved by the regulator prior to implementation.</li> <li>• Wastewater management in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• A Wastewater management plan developed and included in the EMP. All controls of the Wastewater Management Plan to be implemented. This includes monitoring and management requirements.</li> <li>• A Spill Management Plan will be implemented as part of the EMP. Controls implemented as per the plan.</li> <li>• Post drilling and testing, fluid level monitoring will be completed with level monitoring via telemetry/cameras.</li> <li>• Flowback fluids stored in designated lined ponds or tanks.</li> <li>• Fluid blowdown line from a separator to pond/tank.</li> <li>• Quality control of flowback pit installation (if constructed) including above ground earthen bunds to prevent surface water ingress.</li> <li>• Maintain minimum freeboard in line with the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025) and the Wastewater Management Plan.</li> <li>• Repairs to be undertaken when and where required.</li> <li>• Routine inspection of flowback lines during onsite activity.</li> <li>• High pressure equipment rated and trip systems in place to prevent operations above design limits.</li> <li>• Emergency shutdown systems in place.</li> <li>• Emergency Response Plan in place.</li> <li>• Spills or leaks to be remediated as per Emergency Response Plan.</li> <li>• Fencing installed to prevent stock and wildlife access.</li> <li>• Preferential selection of low toxicity chemical alternatives where appropriate.</li> <li>• Lease location selected to minimise potential impacts to drainage patterns, flora, fauna and surface water contamination.</li> <li>• No operations proximal to flowing main surface water channels and/or permanent water holes.</li> <li>• Leases to be constructed outside the 1:100-year modelled flood zone based on 1 in 100-year Average Recurrence Interval flood modelling.</li> <li>• Weather conditions to be monitored during operations in preparation of shutdown due to inundation.</li> <li>• Reduce sump and tank levels to limits described within the Wastewater Management Plan prior to the onset of the wet season.</li> </ul>	<p>No significant impact on Inland environmental water quality resulting from conduct of the regulated activity.</p>

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Water Management, Infrastructure and Treatment	<b>Groundwater extraction causing drawdown of localised aquifers</b>	<ul style="list-style-type: none"> <li>• Drawdown of artesian or sub-artesian aquifer.</li> </ul>	<ul style="list-style-type: none"> <li>• Potential lowering of groundwater levels, reducing availability of water for irrigation, livestock and domestic use.</li> <li>• Reduced bore yield or bore failure which potentially requires deepening or replacement of existing bores.</li> <li>• Decline in water quality due to over-extraction.</li> </ul>	<ul style="list-style-type: none"> <li>• Compliance with conditions of water take licences, granted in accordance with <i>NT Water Act</i> [DEPWS, 1992] under Water Extraction Licence.</li> <li>• Residual drilling fluids generated during well drilling works will be re-used.</li> <li>• Drilling pits (sump) will be lined with an impermeable membrane that meets the requirements of the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• Installation of any new water bores will be in accordance with all government regulations and licencing conditions.</li> <li>• New or amended Water Extraction Licence for water use. Only allocated water use will be extracted.</li> </ul>	No significant impact on Inland environmental water quality resulting from conduct of the regulated activity.
Water Management, Infrastructure and Treatment	<b>Overflow of drilling by-product storage pit, flowback tanks, or failure of embankment from rain inundation.</b>	<ul style="list-style-type: none"> <li>• Localised contamination of soil or surface water.</li> <li>• Release into local surface water.</li> </ul>	<ul style="list-style-type: none"> <li>• Soil and water contamination potentially rendering land temporarily or permanently unsuitable for crops or grazing.</li> <li>• Health risks to livestock from exposure to or ingestion of spilled substances.</li> <li>• Interruption to farm operations including access during cleanup and containment.</li> <li>• Economic loss from damaged produce, reduced productivity, or the need to relocate stock.</li> </ul>	<ul style="list-style-type: none"> <li>• A Well Operations Management Plan (WOMP) as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) will be developed by Santos and approved by the regulator prior to implementation.</li> <li>• Wastewater management in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• A Wastewater Management Plan developed and included in the EMP. All controls of the Wastewater Management Plan to be implemented.</li> <li>• A Spill Management Plan developed as part of the EMP. Controls implemented as per the plan.</li> <li>• Well pad located out of flood zone as far as reasonably possible (based on 1 in 100-year Average Recurrence Interval flood modelling).</li> <li>• Well pad constructed with a bund/berm to divert water from going on-site and facilitate water flow from on-site to catchment areas during rainfall events.</li> <li>• On-site pit for storage of drilling by-products constructed with perimeter bund to prevent water entry from overland flow where required.</li> <li>• Containment bunds are to be maintained around cuttings pits.</li> <li>• Drilling material storage pit is designed with an appropriate freeboard level (distance from the top of the pit to the level of the drilling by-products) to ensure the pit does not overflow as per the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• Pit and tank fluid levels will be monitored (remotely when no activity occurring onsite).</li> <li>• Drilling pit (sump) will be re-instated and stabilised as per the Rehabilitation and Wastewater Management Plans at the cessation of Activity (when no longer required).</li> <li>• Emergency Response Plan to be enacted if a breach is identified.</li> </ul>	No significant impact on Inland environmental water quality resulting from conduct of the regulated activity.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Water Management, Infrastructure and Treatment	<b>Spills of drill fluid additives, chemicals, produced fluid during transport</b>	<ul style="list-style-type: none"> <li>Spills outside of well pad on local roads/ uncontrolled environment.</li> </ul>	<ul style="list-style-type: none"> <li>Soil and water contamination potentially rendering land temporarily or permanently unsuitable for crops or grazing.</li> <li>Health risks to livestock from exposure to or ingestion of spilled substances.</li> <li>Interruption to farm operations including access during cleanup and containment.</li> <li>Economic loss from damaged produce, reduced productivity, or the need to relocate stock.</li> </ul>	<ul style="list-style-type: none"> <li>Spill management in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>A Spill Management Plan developed as part of the EMP. Controls implemented as per the plan.</li> <li>Vehicles and equipment maintained in general accordance with as per manufacturer's specifications.</li> <li>Drilling, completions and cementing additives correctly labelled and transported within suitable containers.</li> <li>Residual drilling, completions fluids and wastewater re-used during operations where practicable to minimise transport to off-site disposal facilities as detailed in the Wastewater Management Plan.</li> <li>Heavy vehicle operators are trained and licensed to transport chemicals and wastes as per the Dangerous Goods [Justice, 1998] and Waste Management and Pollution Control Act [DEPWS, 1998].</li> <li>Manifests, certificates, and Safety Data Sheets accompany all loads to aid in spill response and reporting in accordance with the Territory regulation.</li> <li>Saturated solid, extracted from tanks or drilling by-product pits will be covered when transported.</li> <li>Transport of chemicals or wastewater on unsealed roads during wet season conditions only to occur with approval by Santos Representative.</li> <li>Implementation of Wastewater and Spill Management Plans that describes levels of spills and associated response and incident reporting guidance.</li> <li>Any transportation of waste to be done in accordance with the <i>Transport of Dangerous Goods by Road and Rail (National Uniform Legislation)</i> where applicable.</li> </ul>	No significant impact on inland environmental water quality resulting from conduct of the regulated activity.
Water Management, Infrastructure and Treatment	<b>Irrigation of treated effluent in an area where it can enter a waterway or cause water logging.</b>	<ul style="list-style-type: none"> <li>Localised contamination of soil and/or shallow groundwater resources.</li> <li>Injury to/ or loss of stock and wildlife.</li> <li>Waterlogging and salinization.</li> <li>Run off into local surface water.</li> </ul>	<ul style="list-style-type: none"> <li>Potential short-term reduction in the viability of agricultural land.</li> <li>Soil contamination risk if effluent contains residual chemicals, salts or heavy metals not fully treated.</li> <li>Health concerns for livestock if they ingest untreated water.</li> <li>Over-irrigation resulting in waterlogging of the surrounding areas.</li> <li>Possible odour issues affecting amenity in close proximity to the irrigation area.</li> </ul>	<ul style="list-style-type: none"> <li>Irrigation completed by use of sprinklers or dispersion hoses to prevent pooling and runoff/attractants to fauna or stock.</li> <li>Sewerage wastewater will be irrigated as per the <i>Department of Health Code of Practice for Wastewater Management</i>.</li> <li>Areas will be appropriately sized to accommodate irrigation volume.</li> <li>Irrigation areas will be located away from watercourses.</li> <li>The wastewater system performance will be monitored broadly in accordance with manufacturer's requirements.</li> </ul>	No significant long-term impact on soil stability, quality or surface water.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Operating, Testing, Maintenance and Decommissioning of Installed Wells	<b>Flaring of appraisal gas for 300 days of well testing.</b>	<ul style="list-style-type: none"> <li>New and increased GHG emissions into the atmosphere.</li> <li>Noise and light amenity impacts.</li> <li>Reduced access to section of property.</li> <li>Increased fire risk.</li> </ul>	<ul style="list-style-type: none"> <li>Noise and light disturbance affecting livestock behaviour and farmer wellbeing, especially at night.</li> <li>Disruption to daily farm activities due to safety zones or restricted access near flare sites.</li> <li>Increased fire risk around flare sites, threatening pasture, crops and farm infrastructure.</li> </ul>	<ul style="list-style-type: none"> <li>Noise assessment, planning and management associated with petroleum activities shall comply with the Northern Territory Noise Management Framework Guidelines published by the Northern Territory Environment Protection Authority.</li> <li>A Methane Emissions Management Plan developed as part of the EMP. Controls implemented as per the plan.</li> <li>Gas encountered during the extended production test to be flared whenever possible in accordance with the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>Separators used where required during well flowback or testing to separate water, condensate and gas for separate handling. Well flowback diverted to a separator as soon as practicable to minimise the cold venting of gas and commence flaring (or another sustainable alternative).</li> <li>Flare designed and operated to achieve 98% combustion efficiency in line with US EPA 40.</li> <li>Continued competency assessment, education and training of individuals responsible for activity associated with drilling and workovers.</li> <li>Preference to flare over venting. Planned venting will only occur for small scale activity, and flaring to be used for production testing where beneficial use not available.</li> <li>Consideration of proximity to surrounding infrastructure and vegetation for the placement of the flare.</li> <li>Restricted access to site during flaring and site to be fenced.</li> <li>Beneficial use of gas to be investigated with a view to reducing the requirement for flaring in the future – subject to separate regulatory authorisation.</li> </ul>	No unnecessary greenhouse gas emissions generated from the Activity.
Operating, Testing, Maintenance and Decommissioning of Installed Wells	<b>Emissions from well infrastructure during and post activities completion due to leakage</b>	<ul style="list-style-type: none"> <li>New and increased GHG emissions into the atmosphere.</li> <li>Increase fire risk.</li> </ul>	<ul style="list-style-type: none"> <li>Health risks to humans and animals from exposure to hazardous gases like methane.</li> <li>Increase fire and explosion risk, particularly during dry and hot conditions.</li> </ul>	<ul style="list-style-type: none"> <li>All emission causing uses are estimated and recorded for reporting in line with <i>National Greenhouse and Energy Reporting Scheme</i> (NGERS).</li> <li>Well-designed per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025) standards including leak detection requirements.</li> <li>Wellheads maintained and inspected as per the <i>Code of Practice: Well Integrity</i> (Northern Territory Government, 2025).</li> <li>Identified leaks rectified as per the Methane Emissions Management Plan and/or escalated as per the Emergency Response Plan.</li> </ul>	No unnecessary greenhouse gas emissions generated from the Activity.
Operating, Testing, Maintenance and Decommissioning of Installed Wells	<b>Well infrastructure impacting on the rural amenity of the region</b>	<ul style="list-style-type: none"> <li>To visual amenity/aesthetic.</li> </ul>	<ul style="list-style-type: none"> <li>Visual impacts of gas infrastructure on the landscape.</li> </ul>	<ul style="list-style-type: none"> <li>Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>Where practical, pre-existing tracks will be used or upgraded for use to avoid unnecessary clearing and reduce the overall impact to the surrounding users of the land.</li> <li>Land access agreements will detail the scope and location of the Regulated Activity and will be in place before any such activities commence.</li> </ul>	Minimise negative impact to communities and enhance the economy.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Regulated Activity - All	<b>Nuisance (noise and light) from the Activity, inc. vehicle movements, drilling, and testing related works.</b>	<ul style="list-style-type: none"> <li>Nuisance impacts to sensitive receivers.</li> <li>Impacts to local fauna.</li> <li>Disturbance to stock and wildlife.</li> </ul>	<ul style="list-style-type: none"> <li>Short-term, operations causing nuisance to local residence.</li> <li>24-hour operations of drilling and HFS causing nuisance during nighttime hours.</li> <li>Minor and temporary elevated levels of noise near the exploration activities (when operations are being undertaken).</li> <li>Minor noise predicated at Tanumbirini Homestead during HFS operations. Not expected to exceed existing generator noise used at station.</li> <li>Cattle to experience minor disturbance if within the vicinity during well operational scopes.</li> </ul>	<ul style="list-style-type: none"> <li>Site selection and planning in accordance with <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>Noise assessment, planning and management associated with activities shall comply with the Northern Territory Noise Management Framework Guidelines published by the Northern Territory Environment Protection Authority.</li> <li>Well pad located on the western edge of Jibera South Land Access Agreed investigation area to maximise distance from Tanumbirini Homestead.</li> <li>Well pad, campsite, borrow pit/s and new access tracks will be located outside sites of significant protected vegetation.</li> <li>Well pad and campsite lighting towers positioned inward toward the location centre.</li> <li>Task-focused lighting will be used, and all boundary lighting will be positioned inwards at the drill site and camp.</li> <li>Speed limit of 60km/hr on unsealed roads within Project Area.</li> <li>All equipment maintained and operated in general accordance with manufacturers guidelines.</li> <li>Provide a 14 day lookahead notice to the landowner of upcoming activity.</li> <li>Minimise required during for drilling and stimulation activity.</li> </ul>	Minimise negative impact to communities and enhance the economy.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Regulated Activity - All	<b>Ignition of local or regional fire due to activities</b>	<ul style="list-style-type: none"> <li>• Fire impacts to flora and fauna, local landscape and infrastructure.</li> <li>• Injury or death of livestock, loss of pasture, dwellings and infrastructure from fire.</li> </ul>	<ul style="list-style-type: none"> <li>• Threat to livestock and infrastructure from accidental ignition during construction.</li> <li>• Damage to pasture and crops, reducing productivity and feed availability.</li> <li>• Increase fire management burden on the homestead, requiring more vigilance and resources due to increased fire risk.</li> <li>• Disruption to farm operations during a fire outbreak or high-risk periods.</li> <li>• Risk of personal safety to homestead operators and employees.</li> <li>• Potential for fire to spread to neighbouring properties, escalating regional impact.</li> </ul>	<ul style="list-style-type: none"> <li>• Fire management in accordance with the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>• The implementation of a site-specific Fire Management Plan, which includes preparation and planning information, action and mitigation measures, and stakeholder and emergency contact information in case of a fire.</li> <li>• Consultation and coordination with pastoralist regarding fire management obligations.</li> <li>• Clearing associated with constructing and/or re-establishing access tracks, well pad, campsite and gravel pit/s - including the clearing of fuel load vegetation within the fire break.</li> <li>• Clearing of the well pad and campsite to include a vegetation clear perimeter to act as a fire break.</li> <li>• Bushfire alert monitoring will be conducted during operations by on-site teams during declared fire danger periods.</li> <li>• Training and inductions will cover designated smoking areas, the location of firefighting equipment, and emergency response.</li> <li>• Flaring to occur within vegetation free safety zones so vegetation not exposed to a radiant heat exceeding 6.31kW/m2.</li> <li>• Fire extinguishers and operational radios will be fitted to all vehicles, and fire extinguishers located at the campsite.</li> <li>• All vehicles will be equipped with operational VHF and/or UHF radio transceivers.</li> <li>• Water bores will be available within close proximity of the well pad and/or the groundwater pit on the well pad, available for firefighting.</li> <li>• Weather and fire danger rating monitoring during periods of high fire risk.</li> <li>• Spark arresters used on plant and equipment where practicable.</li> <li>• No burning of solid waste on-site.</li> <li>• Designated smoking areas established with appropriate waste receptacles.</li> <li>• Machinery and vehicles should be parked in areas of low fire risk.</li> <li>• On-site fresh groundwater pit or tanks and nearby water bores able to pump to water trucks to be available for firefighting.</li> <li>• Monitor North Australian Fire Management (NAFI) annual fire mapping.</li> <li>• All personnel will receive an induction prior to the commencement of the Activity relating to the following: <ul style="list-style-type: none"> <li>◦ The Emergency Response Plan</li> <li>◦ The operation of portable fire extinguishers and communications equipment</li> <li>◦ Smoking restrictions</li> <li>◦ Compliance with the Fire Management Plan.</li> </ul> </li> <li>• During operations, daily toolbox meetings will be conducted to: <ul style="list-style-type: none"> <li>◦ Alert the workforce of the fire risk level for the day</li> <li>◦ Discuss any fire incidents and near misses and remedial actions.</li> </ul> </li> <li>• Reinforce compliance with the Fire Management Plan.</li> </ul>	No impact on the health of the Northern Territory population.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Regulated Activity - All	<b>Movement of heavy and light vehicles and machinery on public and private roads to and from the Project Area.</b>	<ul style="list-style-type: none"> <li>To public or private roads/infrastructure and community (e.g., degraded roads, dust).</li> <li>Injury or death to stock.</li> </ul>	<ul style="list-style-type: none"> <li>Impacts caused to farm operations due to gates left open include loss of stock, incorrect mixing of stock lines, pastoralist time to relocate lost stock.</li> <li>Disturbance to mustering operations from machinery, vehicles or blocked routes.</li> </ul>	<ul style="list-style-type: none"> <li>Engagement on the Activity is detailed in Stakeholder Engagement Log.</li> <li>An Erosion and Sediment Control Management Plan developed by a suitably qualified person and included as part of the EMP. Controls implemented as per the plan.</li> <li>Dust suppression measures will be implemented on the well pads, access tracks and borrow pits during periods of high traffic and high dust.</li> <li>A Traffic Management Plan will be submitted to DLI for approval prior to any upgrades to the intersection and access to Newcastle South well pad.</li> <li>Following construction, all vehicles must stay on designated approved access tracks.</li> <li>A 60km/hr speed limit on unsealed roads and project access tracks will be implemented.</li> <li>Where practical, use of pre-existing tracks to access the well pad, campsite, and gravel pit/s to avoid new clearing.</li> <li>Maintain access tracks during Santos active operations or use.</li> <li>Speed limit of 60km/hr on unsealed roads within Project Area. If travelling on unformed tracks or rehabilitated seismic lines, speed limit will be 40km/h.</li> </ul>	Minimise negative impact to communities and enhance the economy.
Regulated Activity - All	<b>Spread of biosecurity risk material (e.g., weed and seed) to, or within the Project Area during operations.</b>	<ul style="list-style-type: none"> <li>Localised spread of new weed and pest species.</li> </ul>	<ul style="list-style-type: none"> <li>Increased activity within EP 161 has the potential for the introduction of noxious weeds and/or pests into the pastoralist lease, impacting agricultural viability of the land.</li> </ul>	<ul style="list-style-type: none"> <li>Weed management in accordance with the <i>Code of Practice: Onshore Petroleum Activities in the Northern Territory</i> (Northern Territory Government, 2025).</li> <li>Implementation of a site-specific Weed Management Plan aligned with the requirements of the <i>NT Weed Management Planning Guide: Onshore Petroleum Projects</i> (DENR, 2019).</li> <li>Baseline weed survey conducted before clearing operations for the identification and management of weeds.</li> <li>Training and inductions for project staff and contractors will cover vehicle weed hygiene requirements.</li> <li>Vehicle and machinery will be cleaned down and inspected before mobilisation to the Project Area.</li> <li>Vehicles will stay on cleared/formed access tracks unless involved in the clearing.</li> <li>Where weeds are identified, weed control measures in line with <i>Northern Territory Weed Management Handbook</i> [DEPWS, 2021] will be implemented as required.</li> <li>Ongoing weed monitoring.</li> <li>Record weed monitoring and survey works in accordance with the NT Weed Data Collection Guidelines. The NT Weed Management Branch will be notified of any new weed incursions.</li> <li>Santos will notify the NT Weed Management Branch of any new weed incursions.</li> <li>Limit standing open water wherever practicable.</li> </ul>	No significant negative impact on community.

Table 7: Risks, Consequences and Performance Outcomes (continued)

Regulated Activity	Environmental Hazard	Potential Environment Impacts and Risks	Potential Consequences to Stakeholders Rights or activities	Potential Mitigation and Management Measures	Likely Environmental Outcome
Regulated Activity - All	<b>Localised Pollution from hard waste</b>	<ul style="list-style-type: none"> <li>Injury to/ or loss of stock and wildlife.</li> <li>Contamination of local waterways.</li> <li>Fauna attraction to site.</li> </ul>	<ul style="list-style-type: none"> <li>Risk to livestock health if animals come into contact with hazardous waste or ingest waste.</li> <li>Increased pest attraction drawn to improperly managed waste.</li> <li>Visual pollution of litter or debris impacting the aesthetic of the rural landscape.</li> <li>Extra clean up responsibilities potentially falling on the farmer if waste is not adequately managed.</li> <li>Contamination of soil and water from improper disposal of construction waste.</li> </ul>	<ul style="list-style-type: none"> <li>Application of the waste hierarchy system (avoid, reduce, reuse, recycle, treat, dispose).</li> <li>Waste streams are segregated on site where appropriate to maximise opportunities for waste recovery, reuse and recycling.</li> <li>Covered bins are provided for the collection and storage of wastes. Rubbish loads are covered during transport to a licensed waste facility.</li> <li>Good housekeeping standards maintained.</li> </ul>	No significant negative impact on community.

### 3 Santos Values Stakeholder Feedback about our Activities

Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including during our information sessions, via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

The timeframe during which feedback is to be provided will be clearly identified by Santos and is specific to each stakeholder. Any feedback we receive will be included within the final Beetaloo Appraisal EMP, which will subsequently be submitted to DPPE for Ministerial approval, unless a stakeholder requests that we don't include their feedback.

The Beetaloo Appraisal EMP will include all written responses received from stakeholders and other records of stakeholder communications. It will also include an assessment of the merits of any objection or claim made by a stakeholder about the anticipated environmental impact of the proposed Regulated Activity, and a statement of Santos' response or proposed response to each objection or claim, and details of any changes made to the Beetaloo Appraisal EMP as a result of the stakeholder engagement. The Beetaloo Appraisal EMP will further include a list of stakeholders and their contact details, and a copy of the information Santos has provided.



# 4 Acronyms & Abbreviations

Table 8: Abbreviations

Acronym	Meaning
<b>AAPA</b>	Aboriginal Areas Protection Authority
<b>ALARP</b>	As Low as Reasonably Practicable
<b>BMP</b>	Bushfire Management Plan
<b>DLPE</b>	Department of Lands, Planning and Environment
<b>DLI</b>	Department of Logistics and Infrastructure
<b>E&amp;A</b>	Exploration and Appraisal
<b>EPA</b>	Environment Protection Authority (NT)
<b>EP</b>	Exploration Permit (e.g. EP161)
<b>EMP</b>	Environmental Management Plan
<b>ERP</b>	Emergency Response Plan
<b>ESCP</b>	Erosion and Sediment Control Plan
<b>GHG</b>	Greenhouse Gas
<b>Ha</b>	hectare
<b>HFS</b>	Hydraulic Fracture Stimulation
<b>IMB</b>	Impact Monitoring Bore

Acronym	Meaning
<b>Km</b>	Kilometre
<b>LWD</b>	Logging While Drilling
<b>m</b>	metre
<b>MRMP</b>	McArthur River Mine Pipeline
<b>NLC</b>	Northern Land council
<b>NT</b>	Northern Territory
<b>NTG</b>	Northern Territory Government
<b>PER</b>	Petroleum (Environment) Regulation
<b>SPMP</b>	Spill Management Plan
<b>TO</b>	Traditional Owner
<b>WEL</b>	Water Extraction Licence
<b>WMP</b>	Weed Management Plan
<b>WOMP</b>	Well Operations Management Plan
<b>WWMP</b>	Wastewater Management Plan

## Appendix A – Stakeholder Feedback Form

<b>Stakeholder Name:</b>	
<b>Stakeholder Contact Details:</b>	
<b>Santos Contact Name:</b>	
<b>Name of Environmental Management Plan or other application in respect of which this response is provided:</b>	
<b>Date:</b>	

Topic	Stakeholder response

Topic	Stakeholder response

# Santos

## CONTACT US

**SHOPFRONT**  
T14/15, 41 The Mall,  
Darwin City

## OPENING HOURS

Monday-Thursday  
10am-3pm  
(by appointment  
at other times)

## PHONE

(08) 8919 1900

## EMAIL

[enquiriesNT@santos.com](mailto:enquiriesNT@santos.com)



**N.2 Engagement – Pastoralist**

Pastoralist – Introduction to project

**Subject:** FW: Notice of Entry - Appraisal Pilot Scout - Tanumbirini  
**Attachments:** 2401107 - Attachment 2 - Proposed Activity Map - NOER - 3752 - Appraisal Pilot - Tanumbirini.pdf; 241129 - NOER - 3735 - Appraisal Pilot Scout - Tanumbirini.pdf

---

**From:** [REDACTED]  
**Sent:** Friday, 29 November 2024 14:15  
**To:** [REDACTED]  
**Subject:** Notice of Entry - Appraisal Pilot Scout - Tanumbirini

Hi [REDACTED]

Please find attached a Form 52 notice for preliminary activities, along with a map attachment, for the **Appraisal Pilot Scout on Tanumbirini Station.**

These monitoring activities are scheduled to occur during the period of **16<sup>th</sup> of December 2024 – 21<sup>st</sup> of December 2024.**

Please review the attached and let me know should you have a query or specific requirement regarding the proposed monitoring activities.

Santos has included a high-level scope below of our proposed activities for Tanumbirini over the next couples of years for transparency:

**2024 Activities:**

- Scout proposed well pad and gravel pit locations within agreed Land Access Agreement (LAA) areas – Q4
- Ecology and archaeology surveys over preferred pad and pit locations – Q4
- Environmental Management Plan (EMP) – initial stakeholder engagement - Q4

**2025 Activities:**

- Environmental Management Plan – further stakeholder engagement – Q1
- Lodgement of Environmental Management Plan – Q2/Q3
- Negotiation of extension of LAA to align with tenure extension – Q2
- Application to extend current term of tenure (EP 161) – Q3
- Approval of Environmental Management Plan – Q4

**2026 Activities:**

- Early civil works – Q1
- Execute Well Scope – Q2/Q3

I am hoping we can catch up soon in person, including our [REDACTED] to discuss the proposed activities in the coming years.

If you have any questions or concerns, please reach out to myself or [REDACTED]

Thank you

[REDACTED]

Manager Land Access and Approvals



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Pastoralist – Information Pack

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** Friday, 20 June 2025 16:26  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** FW: Santos EP 161 Beetaloo Appraisal Information Pack  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf

Good afternoon [REDACTED]

I trust this email finds you well.

As discussed at our meeting in April, please find attached information pack relating to Appraisal activities and draft Environmental Management Plan (EMP) process.

Santos is committed to undertaking genuine and meaningful engagement about our activities in the Beetaloo Basin. Early engagement allows stakeholders an opportunity to communicate concerns and identify issues where their feedback can be considered.

Santos, as the registered interest holder and operator of Exploration Permit (EP) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (PER). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (EMP) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

The attached information pack is provided to identified stakeholders under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**). This document outlines the engagement process Santos will undertake in support of the EMP, in accordance with the PER.

Regulation 7(2)(b) of the PER requires that a reasonable period be allowed for the stakeholder to respond to information given by Santos. Santos proposes a minimum period of 28 days, as a reasonable period for stakeholders to consider the information provided in this Information Pack. Please also note the EMP will be put on exhibition for public comment by the Department of Lands, Planning and Environment once it is lodged. Lodgement is scheduled for September 2025.

The feedback and communications from stakeholder engagement will be consolidated to assist with decision-making where there is an opportunity to influence project decisions and determine processes to meet community expectations for ongoing communication. Your feedback about these matters is important.

Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

Or please don't hesitate to contact me directly if you have specific queries about this process.

Regarding the proposal to seal the entrance track into Tanumbirini from the entrance to the yards grid, we will send through a proposal scope once [REDACTED] has obtained costings (regarding associated fencing realignment/paddock works required). I understand he is working with [REDACTED] on these details. I envisage Santos would compensate these related paddock works by way of additional payment to Rallen to complete these paddock works, documented as a variation to the LAA.

As an update to the well name changes, Santos is working through the administrative requirements of updating environmental securities (bank guarantees), well reports and well plan summaries, approval documentation, and GIS requirements with the well name changes. It is quite the process! Hopefully this can be achieved in the same time frame as the access track variation, so I can update the names on the 'Agreed Works Map', and present one LAA variation to you (rather than multiple variations.)

Again, please don't hesitate to contact to discuss any of the above.

Kind regards,



Team Leader – SA/NT Land Access  
Onshore Land Access

**Santos**



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Pastoralist – Santos Comment Response Email

[Redacted]

---

**From:** [Redacted]  
**Sent:** Wednesday, 15 October 2025 12:06  
**To:** [Redacted]  
**Subject:** Jibera South Access track update.  
**Attachments:** Figure 1 Jibera South Footprint.pdf

Hi [Redacted]

In response to our discussion on the 19<sup>th</sup> September 2025, Santos has now updated the proposed access route as discussed (attached). This footprint will now be used to inform the impact assessments as part of the EMP and will be submitted to DLPE for determination. Thank you for your time during the ongoing engagement to inform the EP 161 Beetaloo Basin Appraisal Pilot EMP.

Do you have time for a quick telephone call to discuss a variation update to the LAA?

Kind regards

[Redacted]

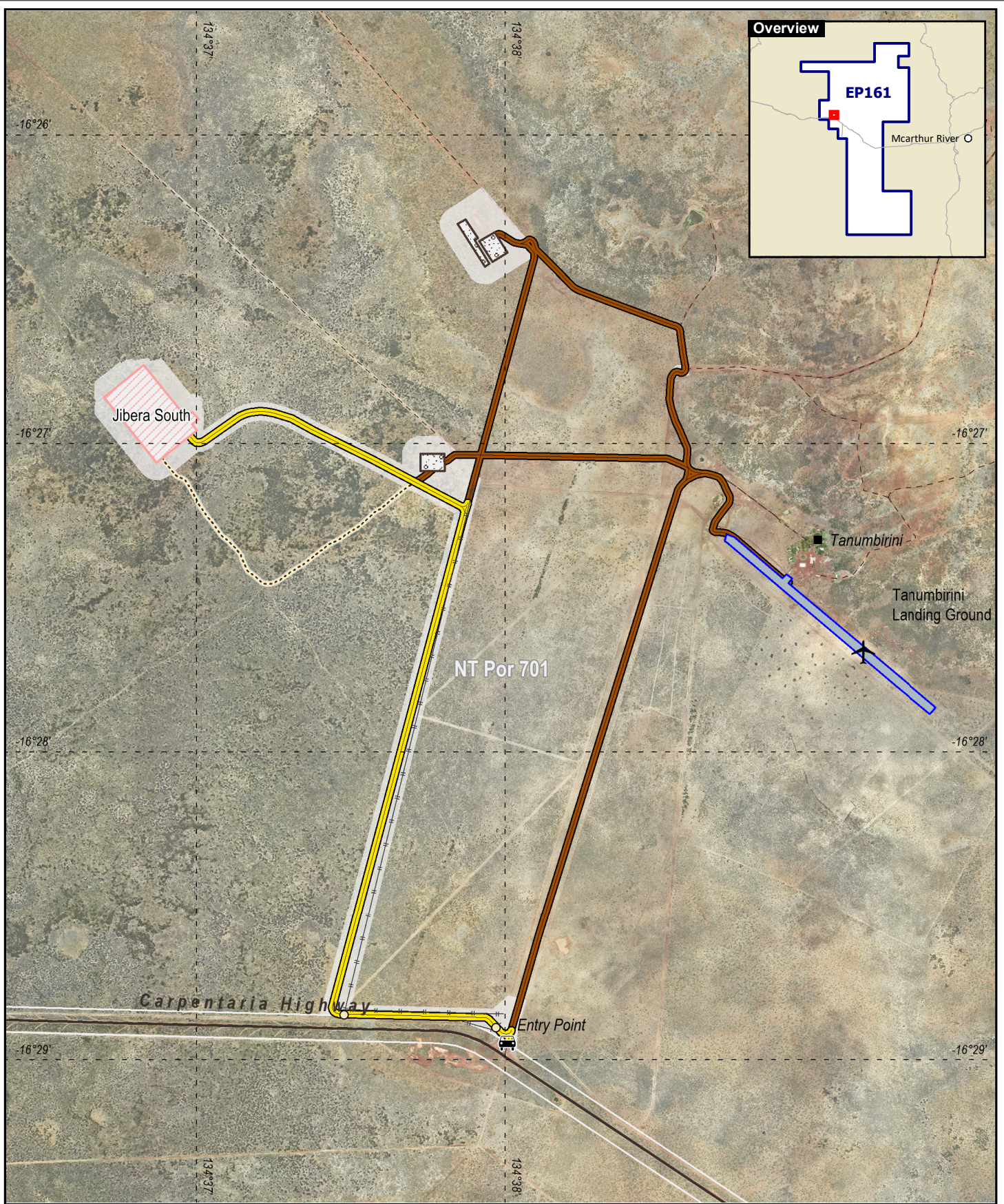
Team Leader – SA/NT Land Access  
Onshore Land Access



[Redacted]

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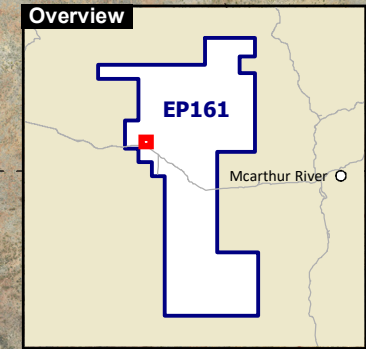
Santos acknowledges the Traditional Owners and Custodians of the lands on which we operate. We pay our respects to their Elders past, present and emerging.



**Legend**

- |  |  |  |                                  |
|--|--|--|----------------------------------|
|  | Entry point  |  | Airstrip                         |
|  | Fence detail                                       |  | Airstrip                         |
|  | Homestead  |  | Borrow Pit                       |
|  | Access Road - Existing<br>- Upgrade and Gravel Cap |  | Well pad (including water bores) |
|  | Access Road - New<br>- Gravel Cap                  |  | Project area                     |
|  | Access Road - Rehab                                |  | Cadastral Parcel                 |
|  | Fencing - new                                      |  |                                  |

Certain information in this map is provided under license from third parties and is subject to intellectual property rights. Santos has made every effort to ensure that information is accurate and up-to-date but does not guarantee or warrant the accuracy, completeness or currency of, and takes no responsibility for any error or omission relating to, this map. Santos and its related bodies corporate accept no responsibility for any errors or omissions. The "User" acknowledges that information and maps are in a constant state of change and accepts all limitations. To the maximum extent permitted by law, Santos and its related bodies corporate will not be liable for any cost, loss or damage arising out of the use of this map.



**Santos**

Northern Territory

**Proposed Infrastructure**

**Jibera South**



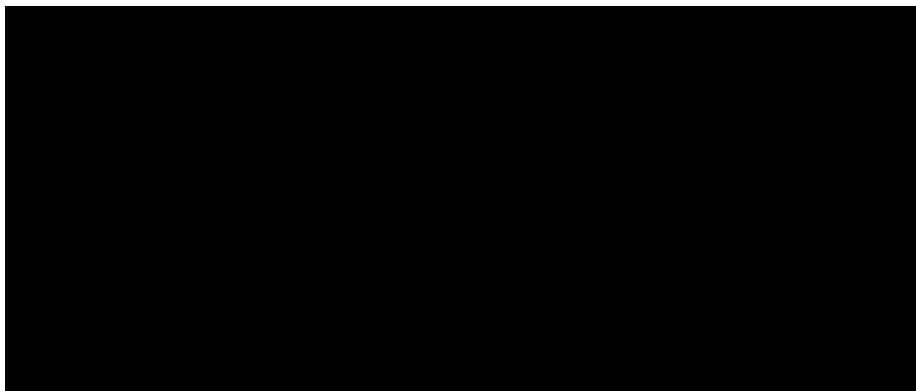
kilometers  
Date: 8/10/2025 File No. ENVIR 1088b.WOR

Rev 2



## **N.3 Engagement – NLC**

NLC – Work Pack



---

**From:** [REDACTED]

**Sent:** Tuesday, 25 February 2025 8:13 AM

**To:** [REDACTED]  
[REDACTED]  
[REDACTED]

**Subject:** Confidential - EP 161 Work Program

Good morning [REDACTED]

Further to my email yesterday, please find attached the Work Program with accompanying spatial data.

I will call you later today [REDACTED]

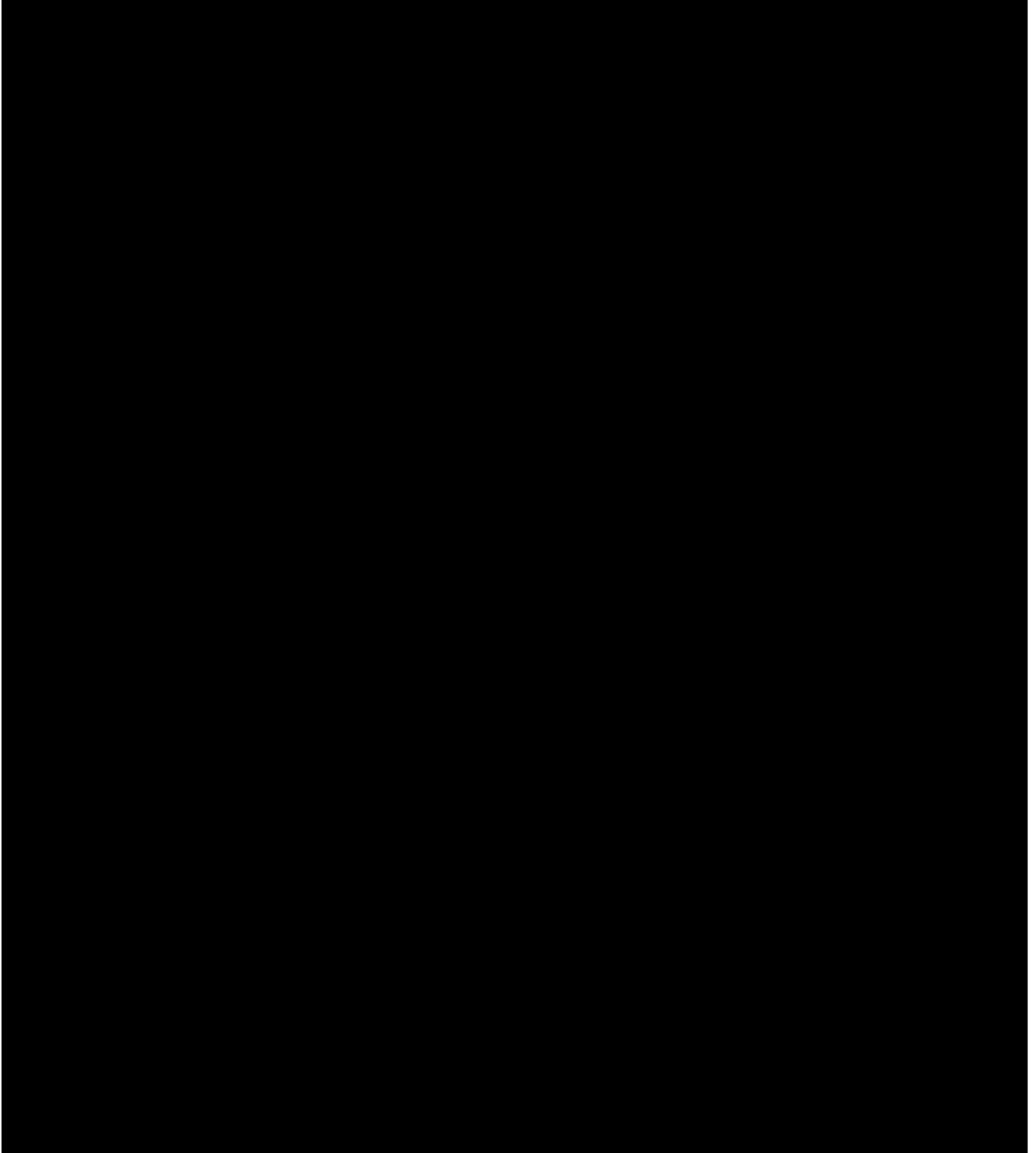
Kind regards, [REDACTED]

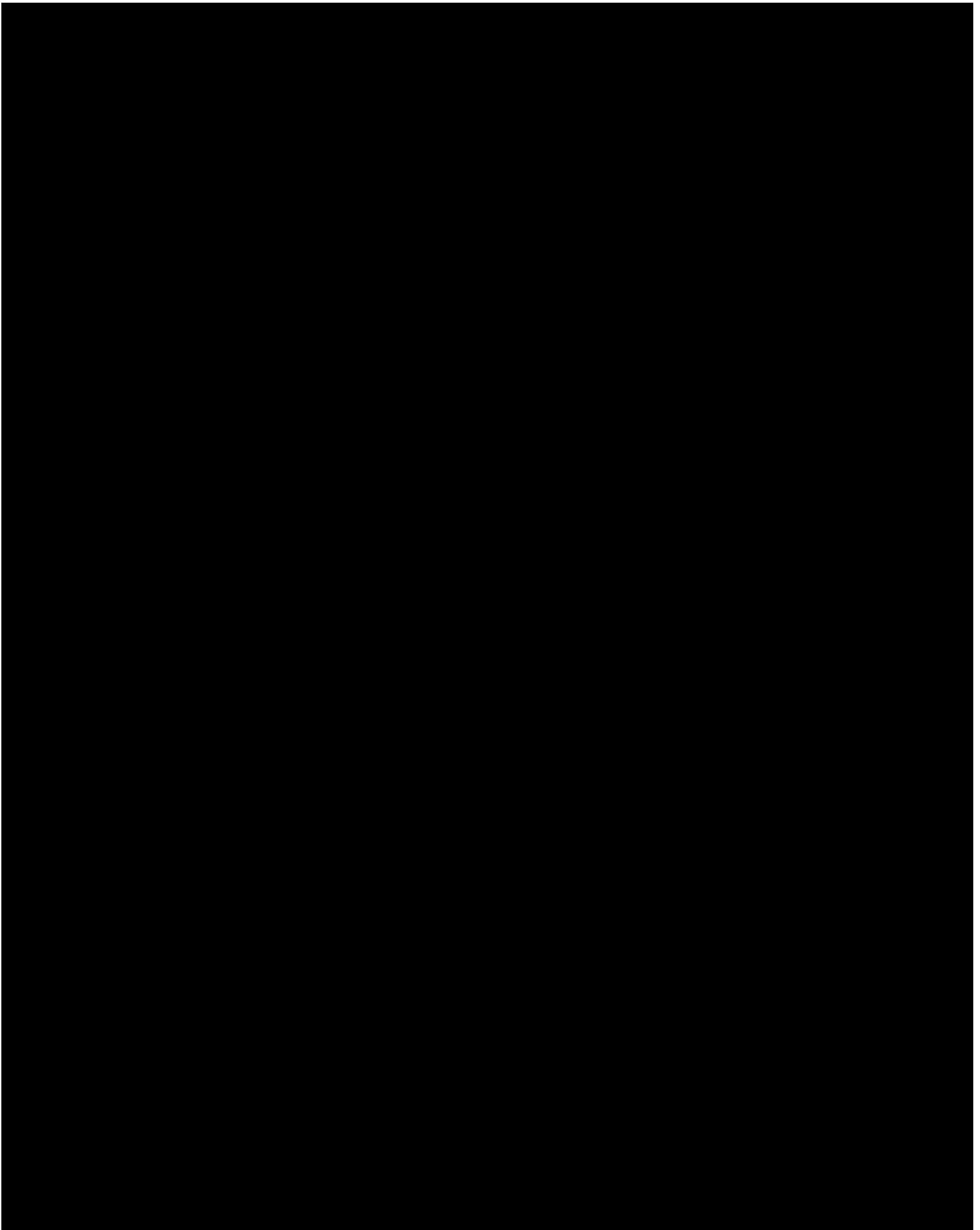
Santos QNT Pty Ltd  
ABN 33 083 077 196  
Ground Floor Santos  
Centre 60 Flinders Street  
Adelaide SA 5000  
GPO Box 2455 Adelaide SA 5001  
Telephone: 08 8116 5111

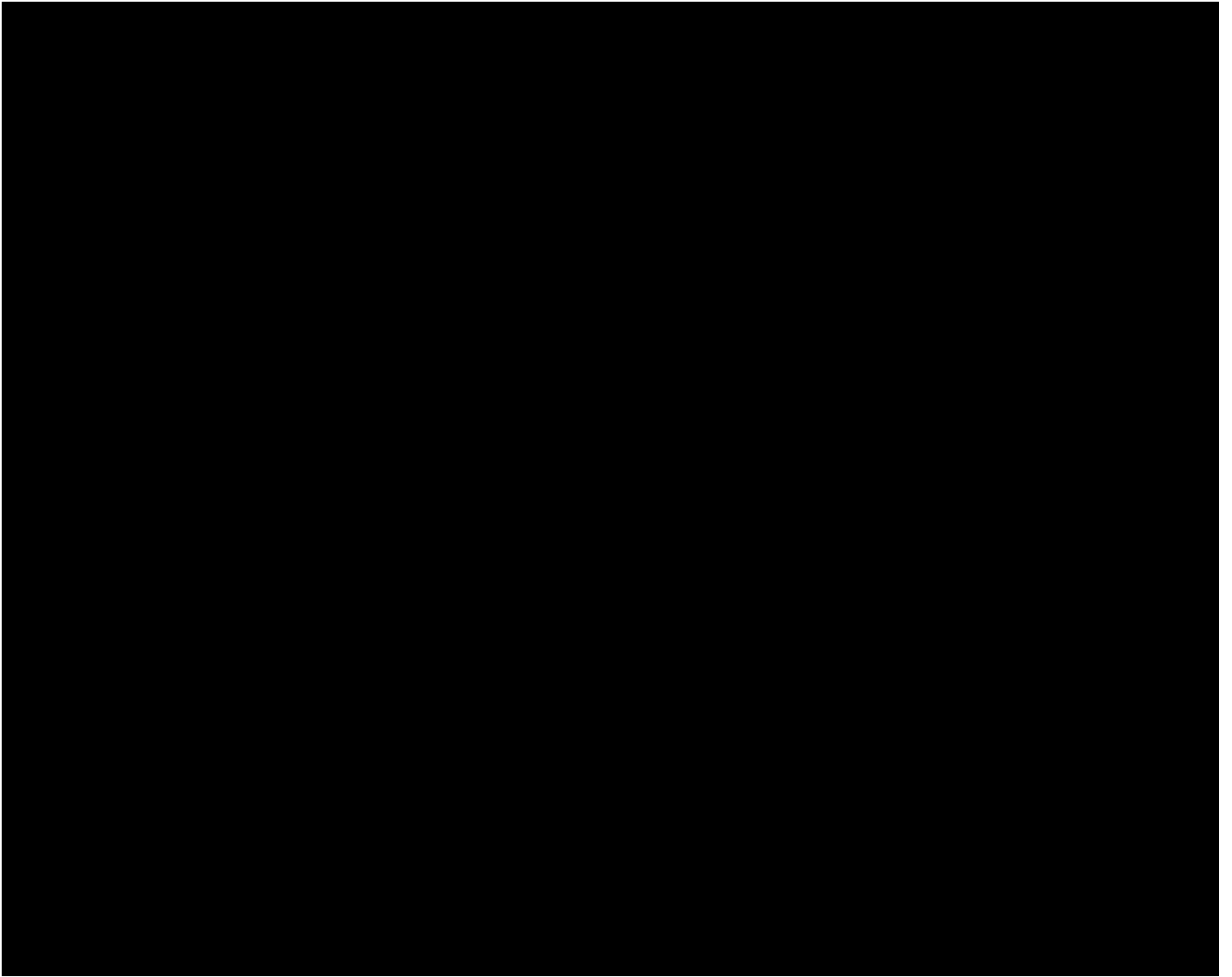


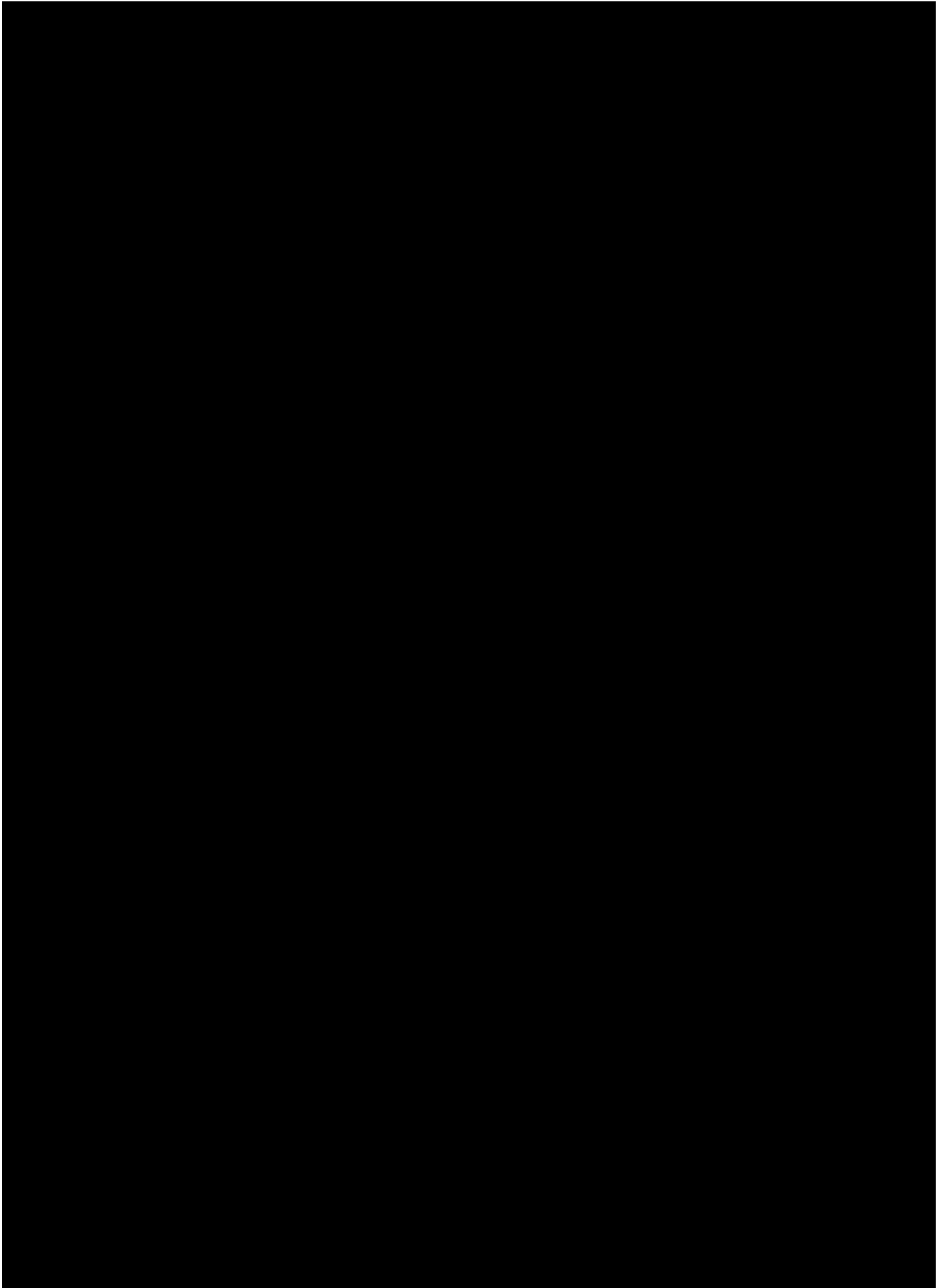
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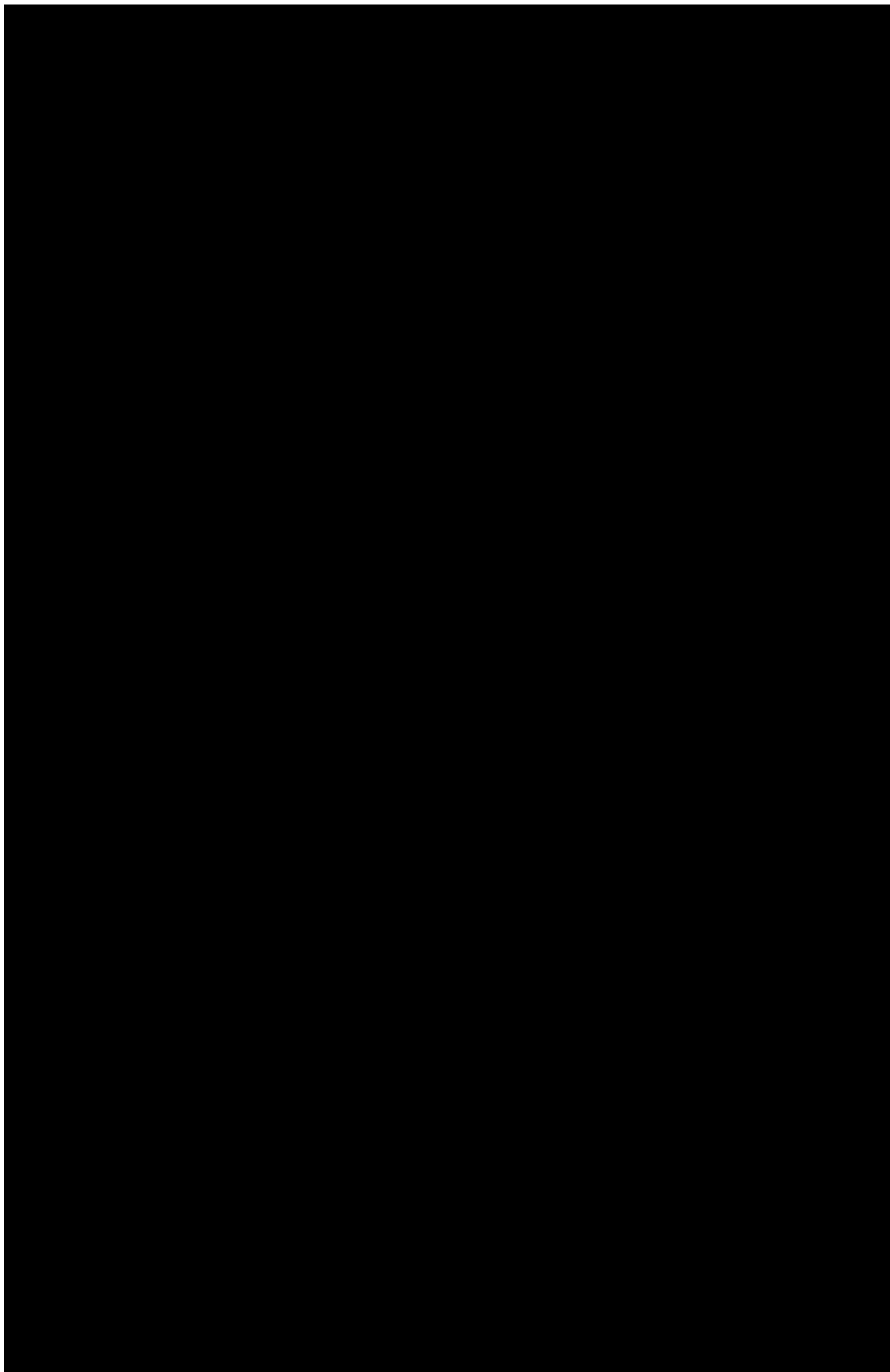
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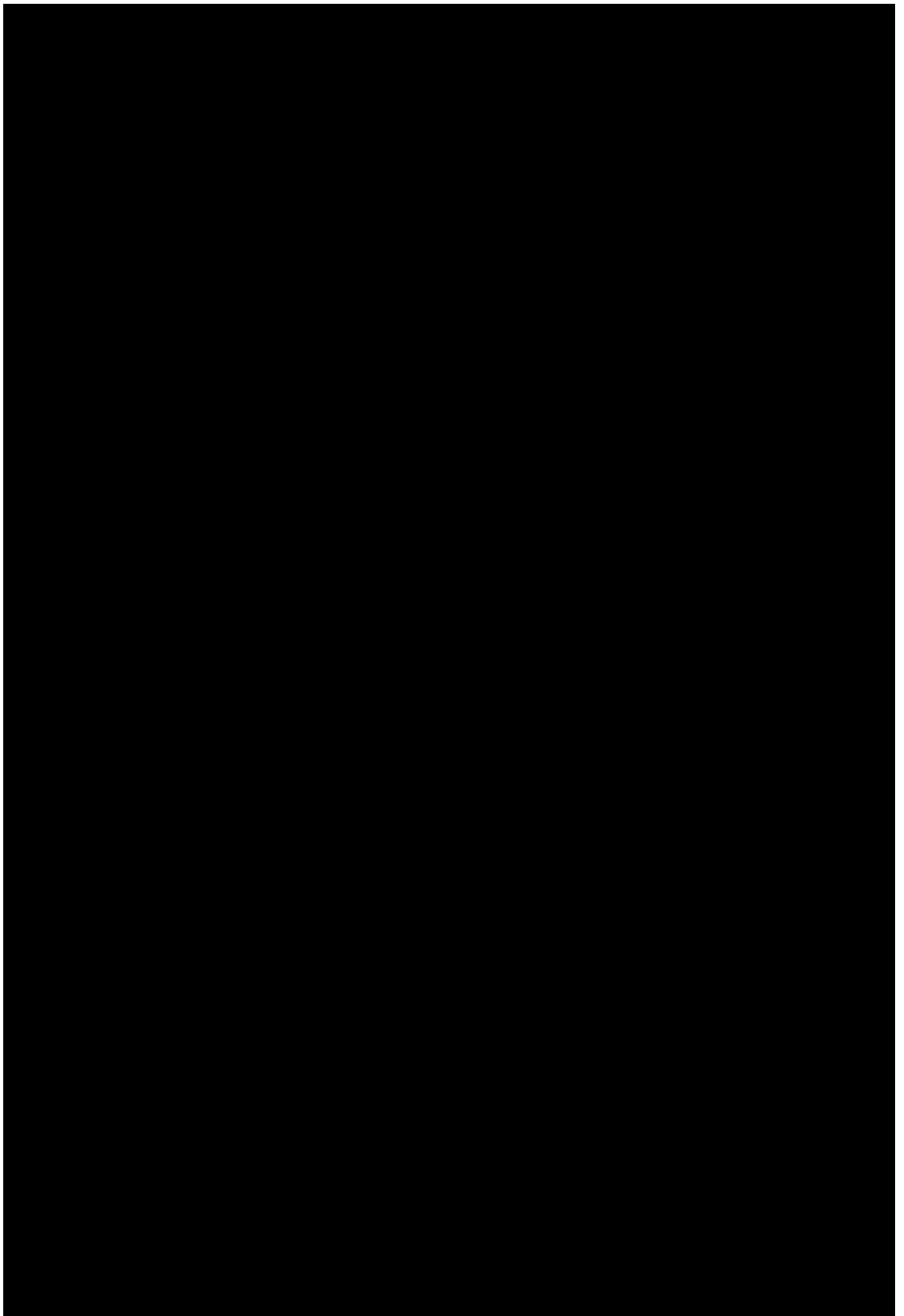


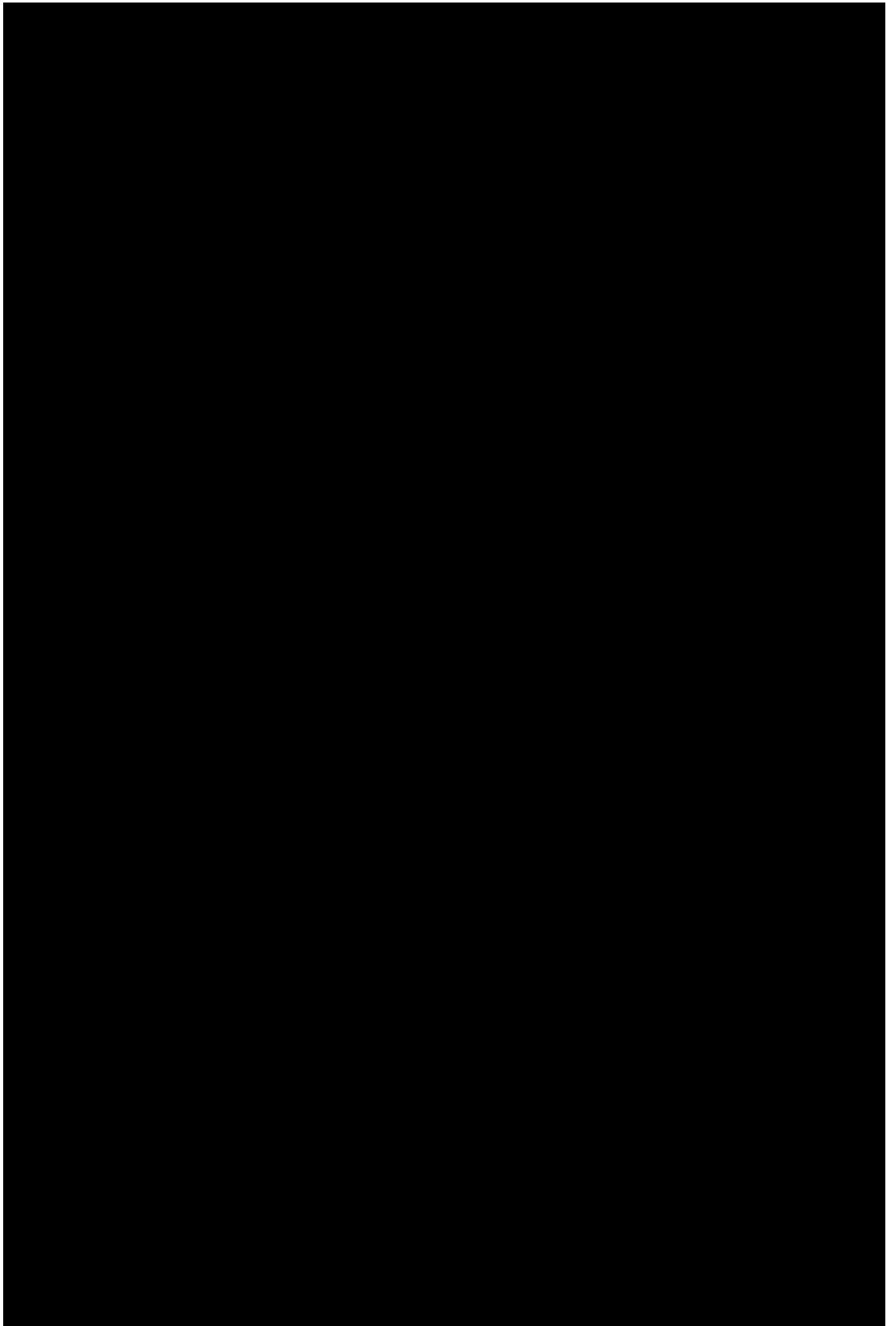


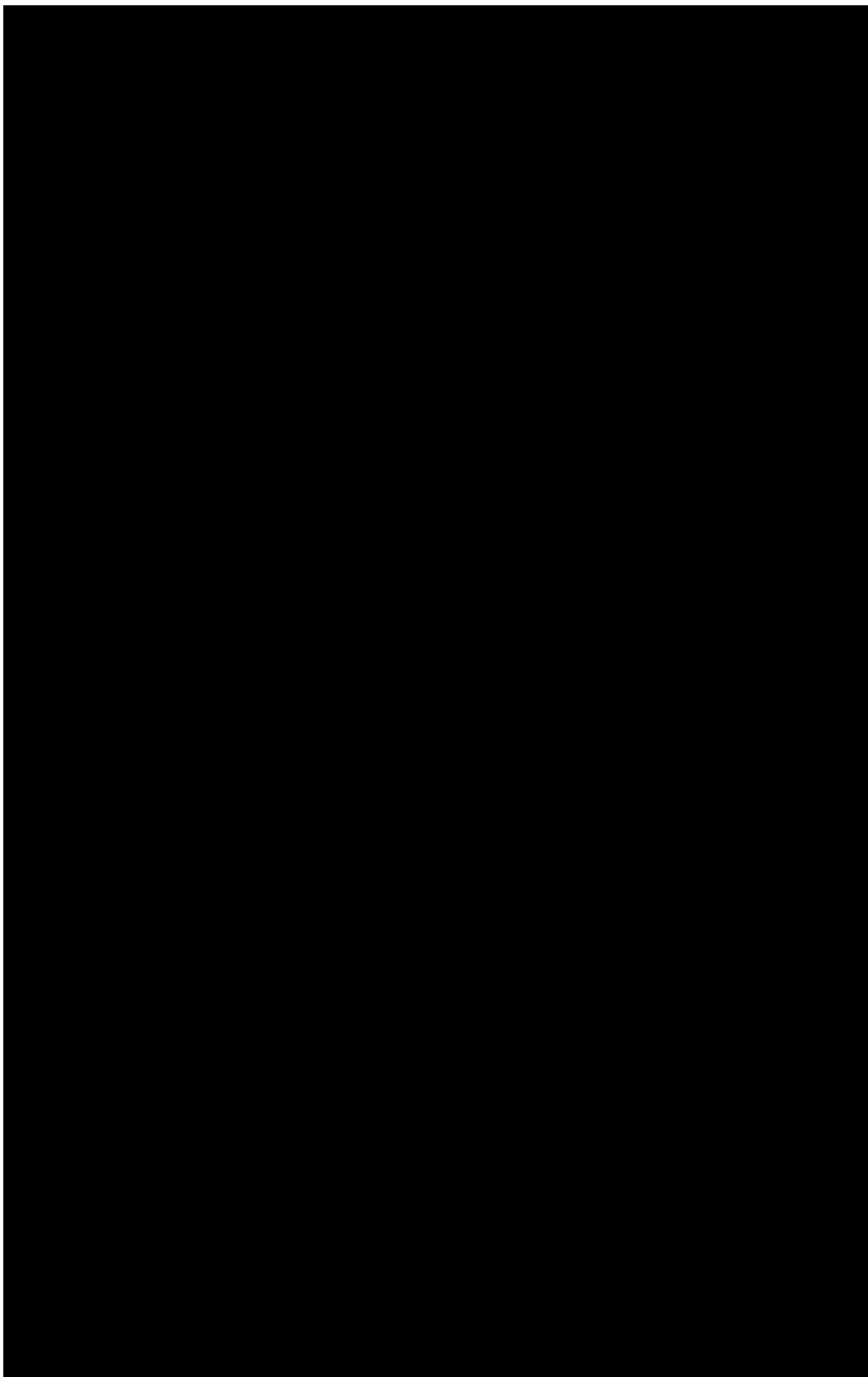


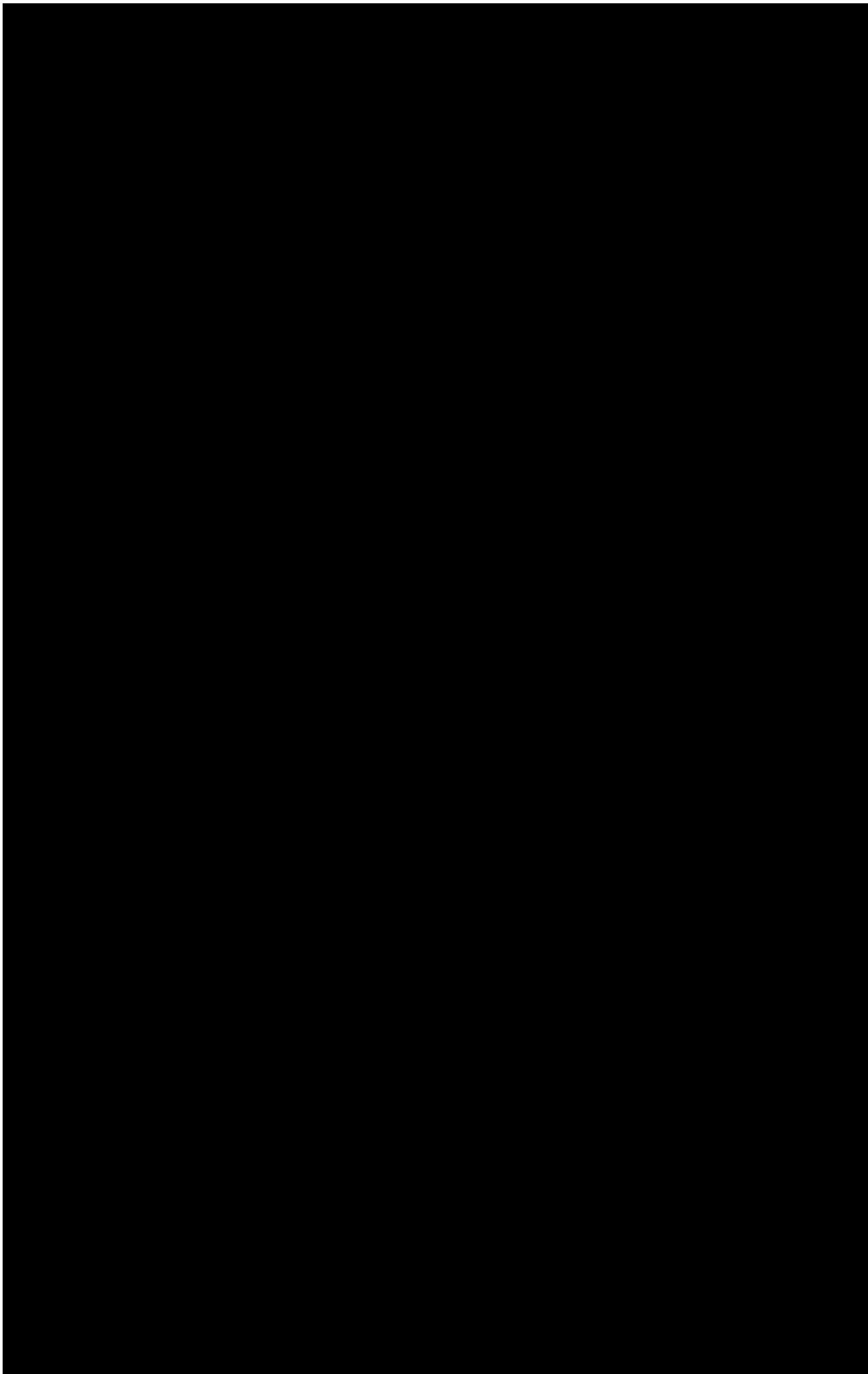


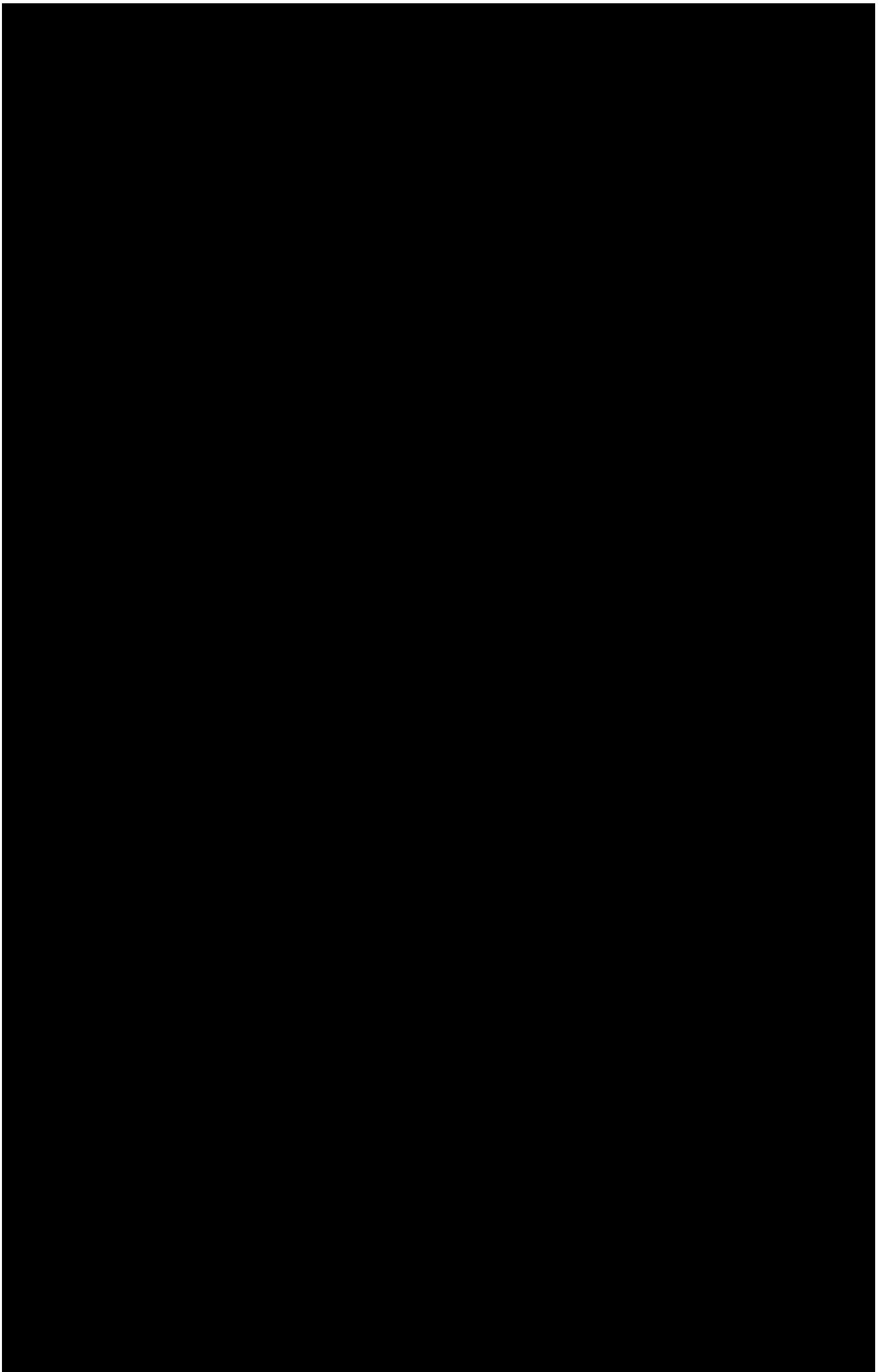


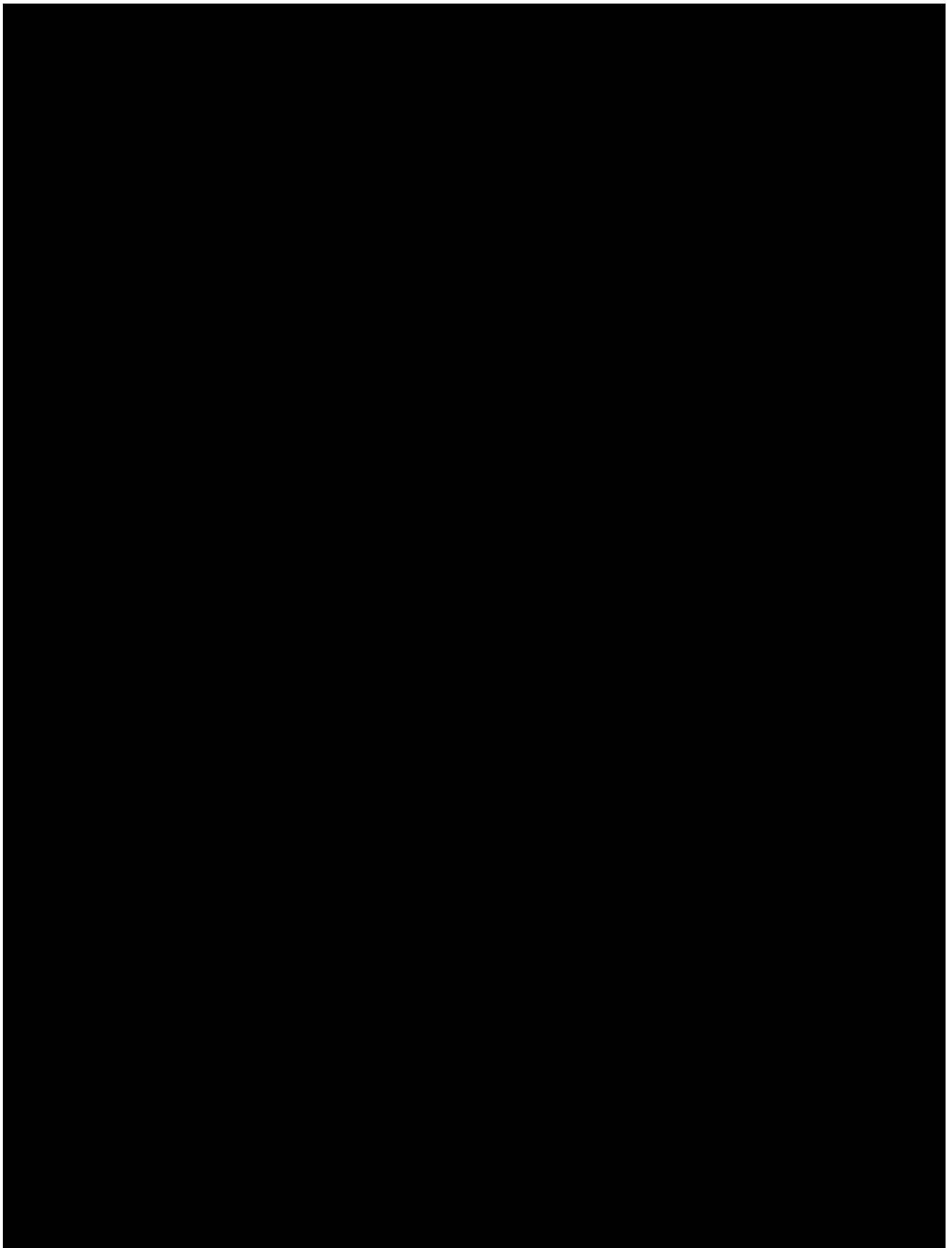


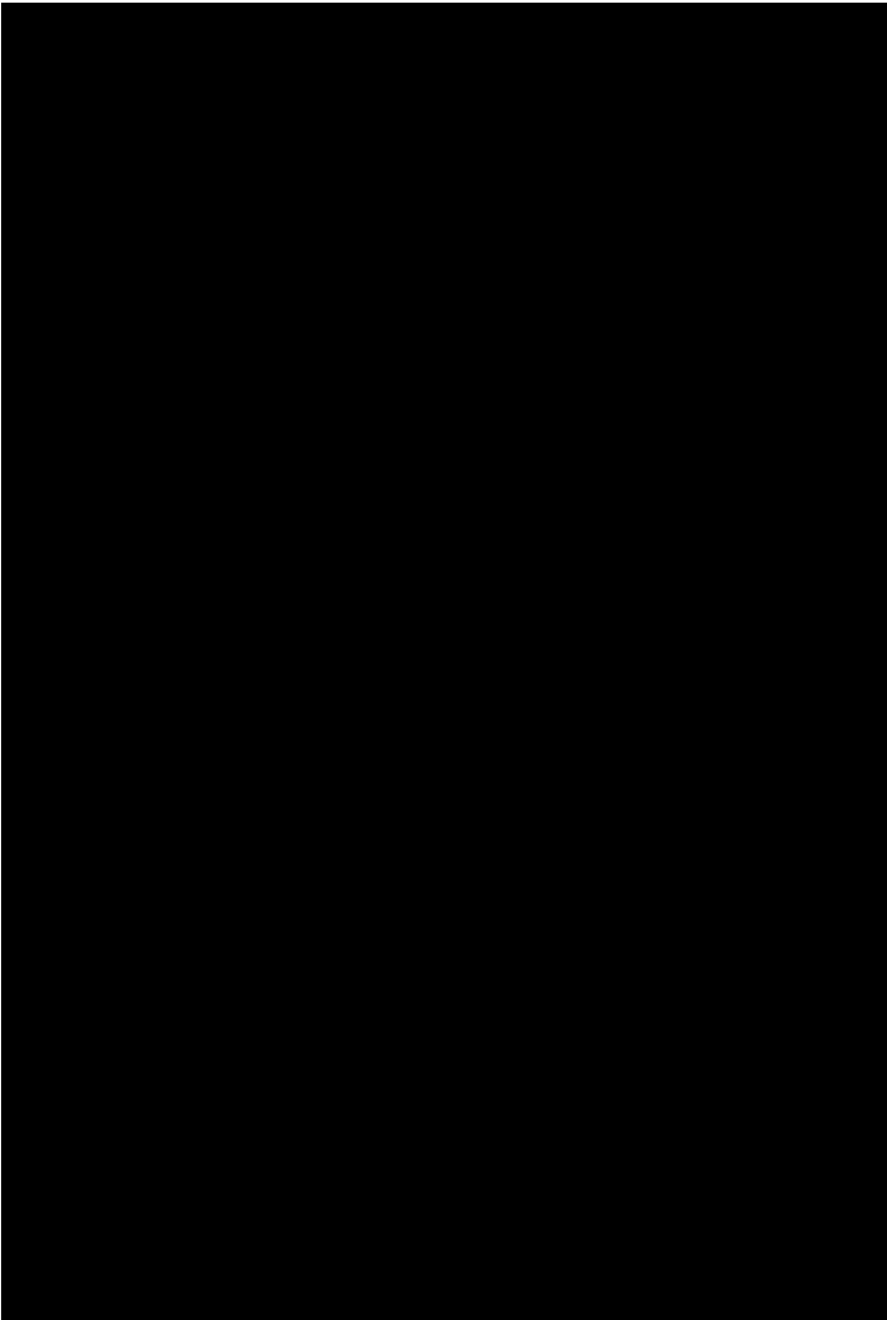


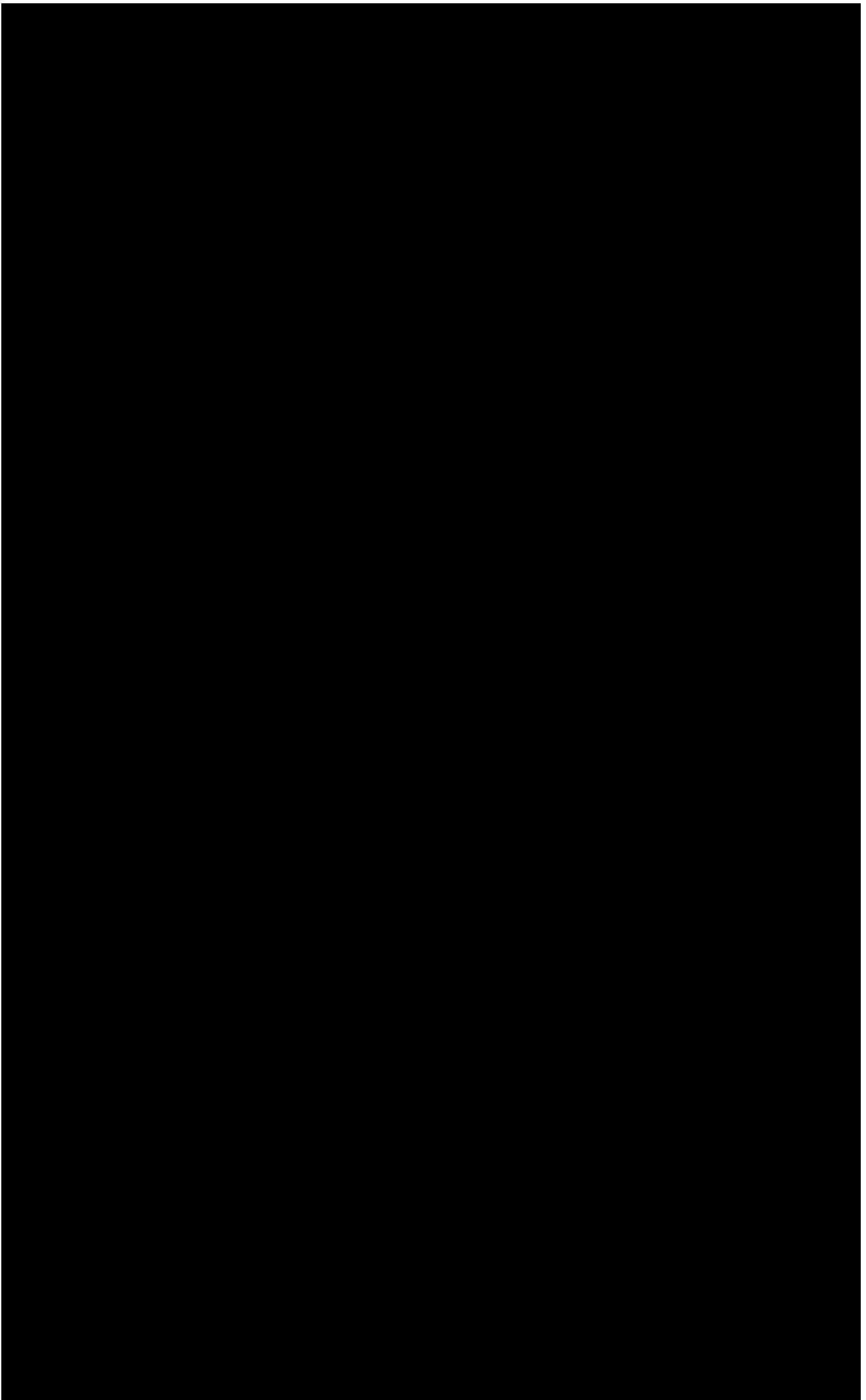


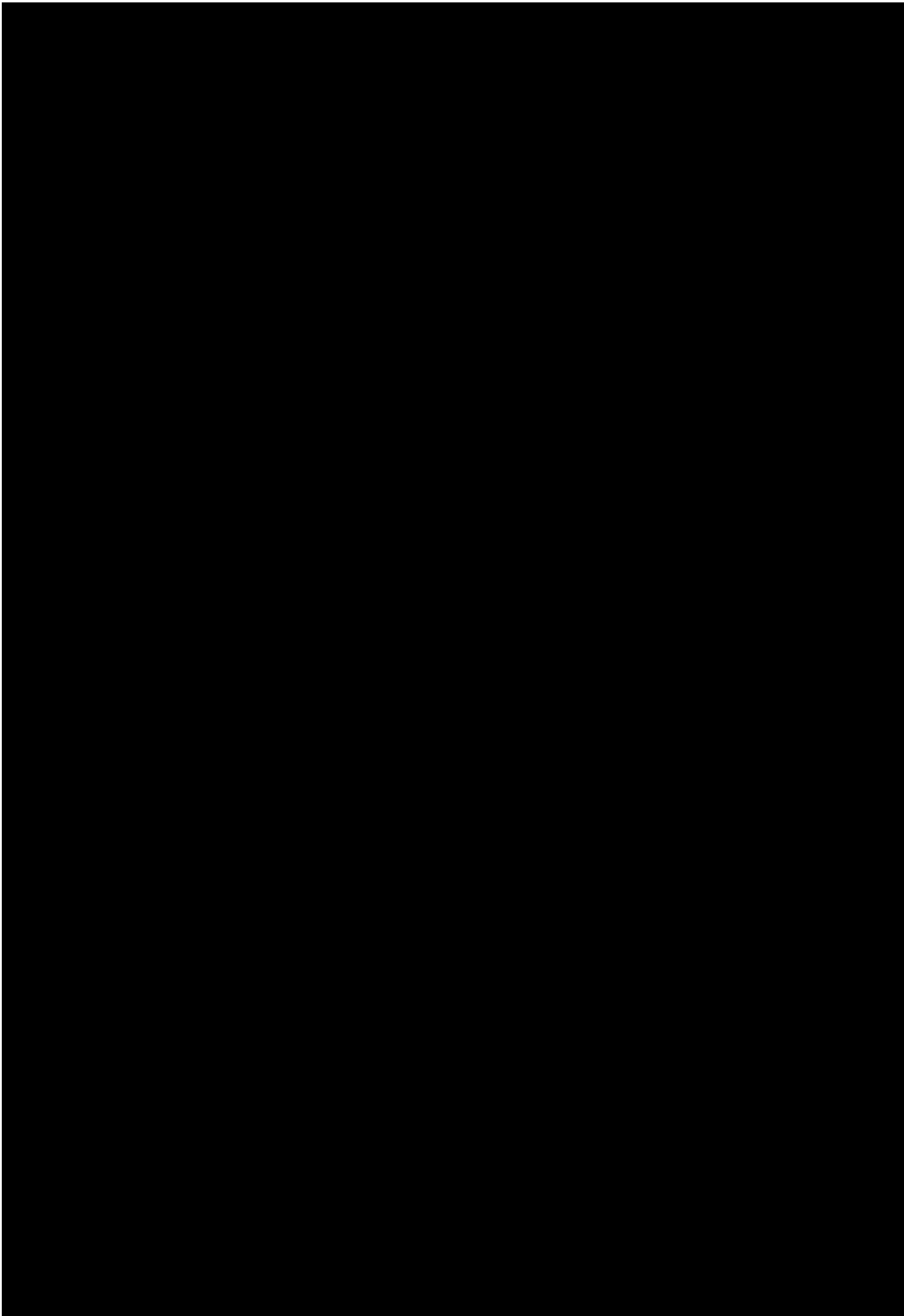


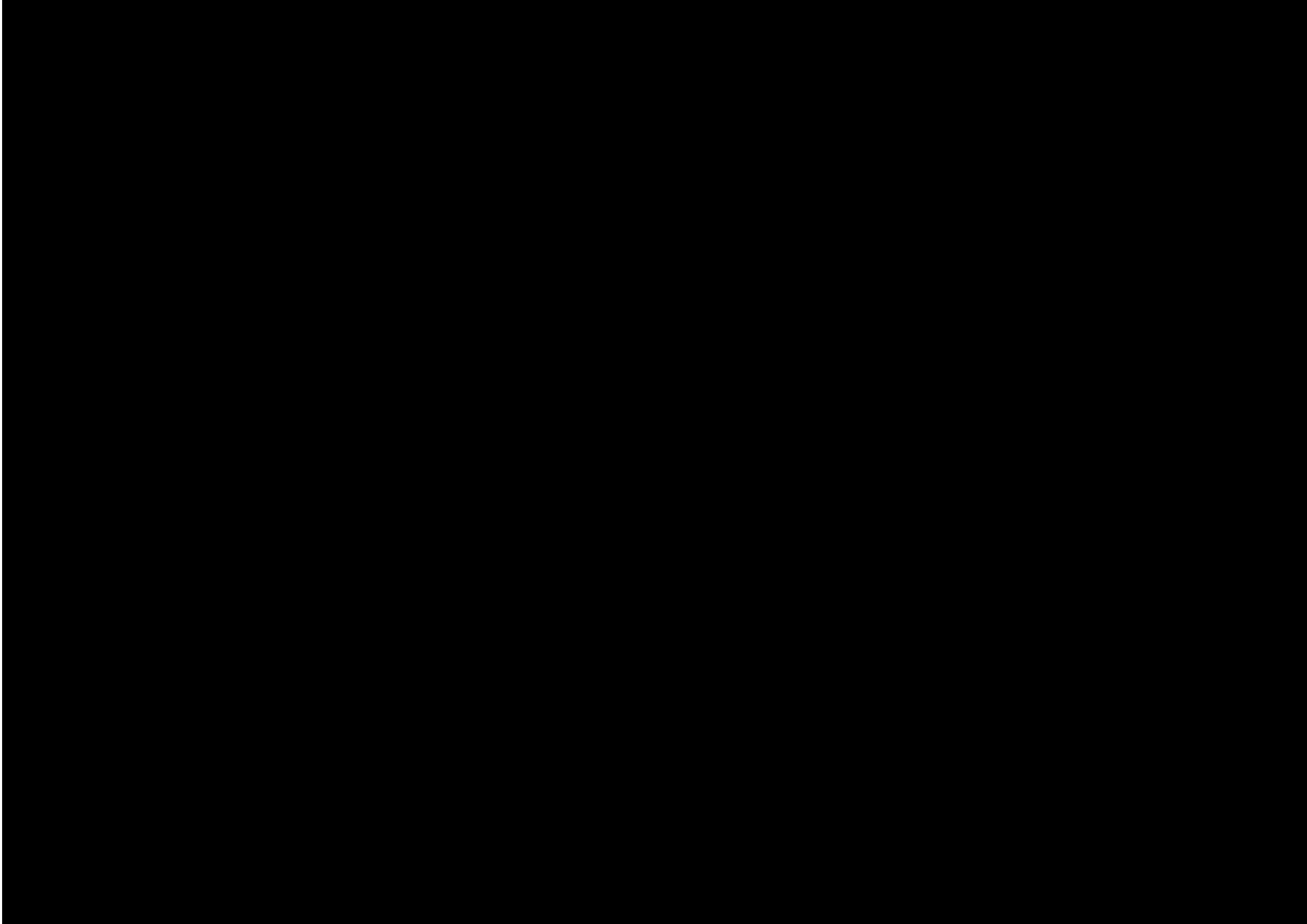












## NLC – Information Pack

**From:** [REDACTED]  
**Subject:** Santos' McArthur/Beetaloo Appraisal Pilot - engagement information pack  
**Date:** Wednesday, 18 June 2025 16:24:00  
**Attachments:** [image001.jpg](#)  
[Santos\\_Beetaloo Appraisal Information Pack\\_June 2025.pdf](#)

**TO: NORTHERN LAND COUNCIL; TOP END (DEFAULT PBC/CLA) ABORIGINAL CORPORATION RNTBC**  
**RE: EP 161 MCARTHUR/BEETALOO APPRAISAL EMP APPROVALS**

Good afternoon,

**Information Pack – Native Title holders**

Santos is committed to undertaking genuine and meaningful engagement about our activities in the Beetaloo Basin. Early engagement allows stakeholders an opportunity to communicate concerns and identify issues where their feedback can be considered.

Santos, as the registered interest holder and operator of Exploration Permit (EP) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016 (PER)*. Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (EMP) is currently being drafted and Santos is seeking feedback on proposed activities to help inform Project planning.

The attached information pack is provided to identified stakeholders under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**). This document outlines the engagement process Santos will undertake in support of the EMP, in accordance with the PER.

The feedback and communications from stakeholder engagement will be consolidated to assist with decision-making where there is an opportunity to influence project decisions and determine processes to meet community expectations for ongoing communication. Your feedback about these matters is important.

**Engagement**

Regulation 7(2)(b) of the PER requires that a reasonable period be allowed for the stakeholder to respond to information given by Santos (the interest holder). Santos proposes a minimum period of 28 days, as a reasonable period for stakeholders to consider the information provided in this Information Pack. Santos is committed to an on-country meeting, as per Table 1, in consultation with the Northern Land Council.

A 28-day period is consistent with other regulated processes where EMPs are put on exhibition for public comment for the same timeframe, including the mandatory exhibition timeframe for public comment for certain EMPs under regulation 8A of the PER, coordinated by the Department of Lands, Planning and Environment. Santos' engagement approach provides more engagement opportunities in addition to that of a typical regulated engagement period.

An overview of what is included within the information pack, and the timeframe for this engagement with the Northern Land Council and Native Title holders, is provided in Table 1.

**Table 1: Engagement for EP 161 McArthur Appraisals EMP**

Activity	Approach	Engagement and Feedback Period
Santos will share Information Packs, which include <ul style="list-style-type: none"> <li>• A description of the Regulated Activity</li> <li>• General drilling pad design</li> <li>• Locations of sites</li> <li>• Construction methodologies and resource requirements</li> <li>• Environmental impacts and risks of the activity, proposed mitigations and outcomes</li> <li>• Possible consequences of carrying out the activity to the stakeholders' rights or activities.</li> </ul>	An information pack is provided with this cover email, marking the commencement of the engagement period.  The stakeholder may provide responses to Santos via email or phone until the end of the 28-day engagement period.	4 weeks from receipt
On Country meeting	At an On Country meeting, Santos will present a summary of the information provided within the Information Pack, respond to questions from stakeholders and record any other feedback that stakeholders may choose to provide regarding the proposed Regulated Activity.	Expected from August 2025
Santos response	Any feedback from Santos requiring a response will be provided to the stakeholder.  Responses may be provided by email, phone call or via meetings if requested.  If requested, a follow up meeting will occur within this 4-week period.	4 weeks following the On Country meeting

Feedback on the proposed activity can be provided to Santos in a variety of ways including during our information sessions, via the feedback form in Appendix A, or by visiting our Shopfront in Darwin. Alternatively, [REDACTED] (Lead, Cultural Heritage and Aboriginal Engagement) will be available from the 25<sup>th</sup> of June on [REDACTED]

**Ongoing Stakeholder Engagement – Post EMP Development**

To keep stakeholders informed of the status of the proposed activities, the following ongoing engagement is proposed:

- Engagement in accordance with the requirements of the EP161 Exploration and Cooperation Agreement between the NLC, Santos and others.
- Ad hoc engagement as reasonably requested by the Native Title holder representative.
- Future engagement on other Santos activities (if proposed) which are not covered under this EMP.

Alternative engagement frequencies can be accommodated at the request of the nominated representative. Santos would also like to extend an invitation to representatives to attend any aspects of the proposed activities to further seek comfort in their understanding and to highlight the nature in which operations are

conducted.

We look forward to working with the Northern Land Council to constructively engage with Native Title holders on our proposed activities.

Regards

[Redacted]

Development Lead, Northern Territory

[Redacted]

[Redacted]

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NLC – Meeting Notice

**From:** [Redacted]

**Subject:** ![EXT]: RE: NLC Meeting notes - 10 Sept 2025

**Date:** Monday, 15 September 2025 14:48:41

**Attachments:** [image001.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

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Hi [Redacted]

Sorry to have missed all of you at this meeting.

Cost estimate is already with you.

Parts of the meeting notice is TO confidential out respect for Aboriginal People.

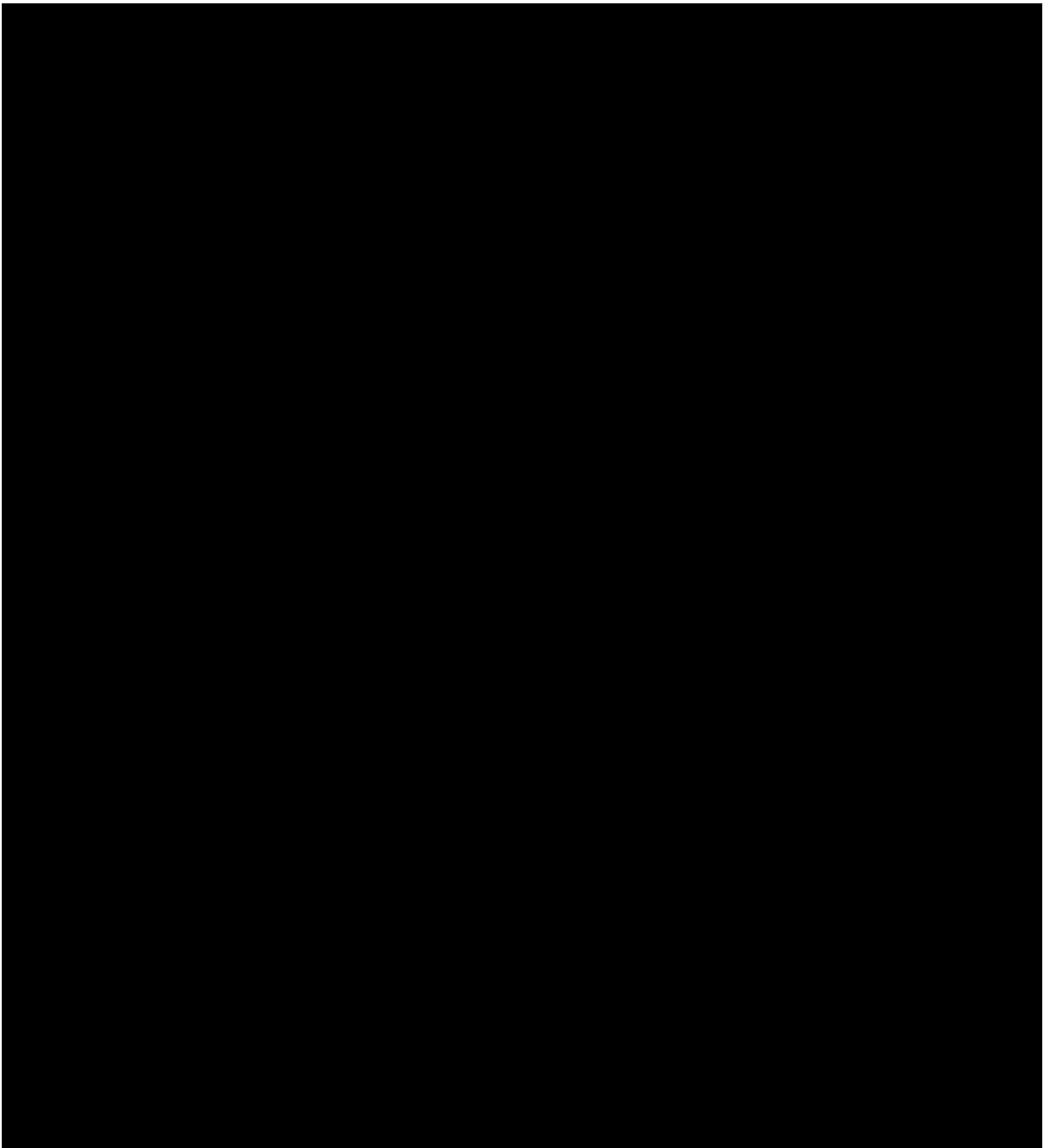
I have inserted below parts you are permitted to review.

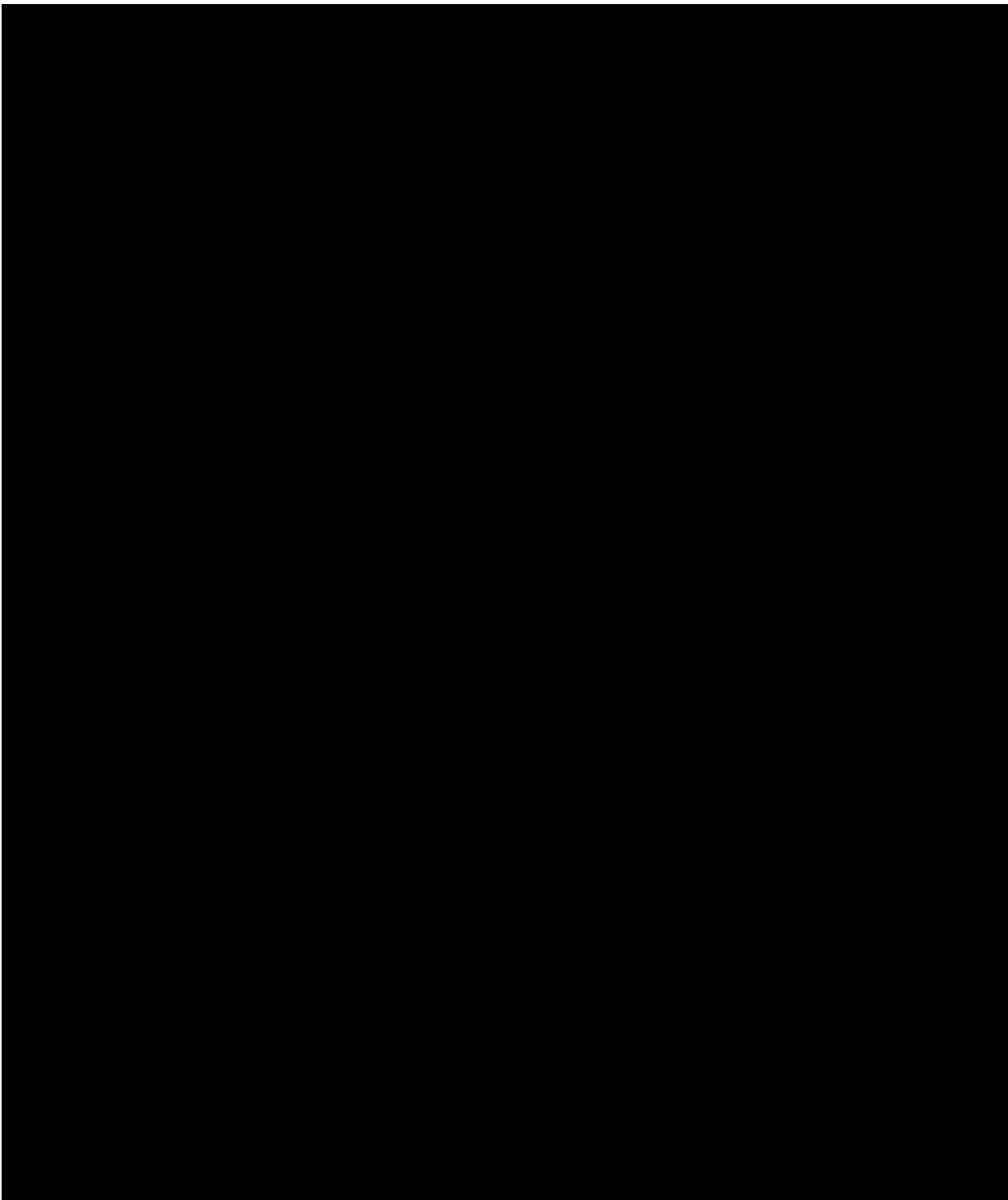
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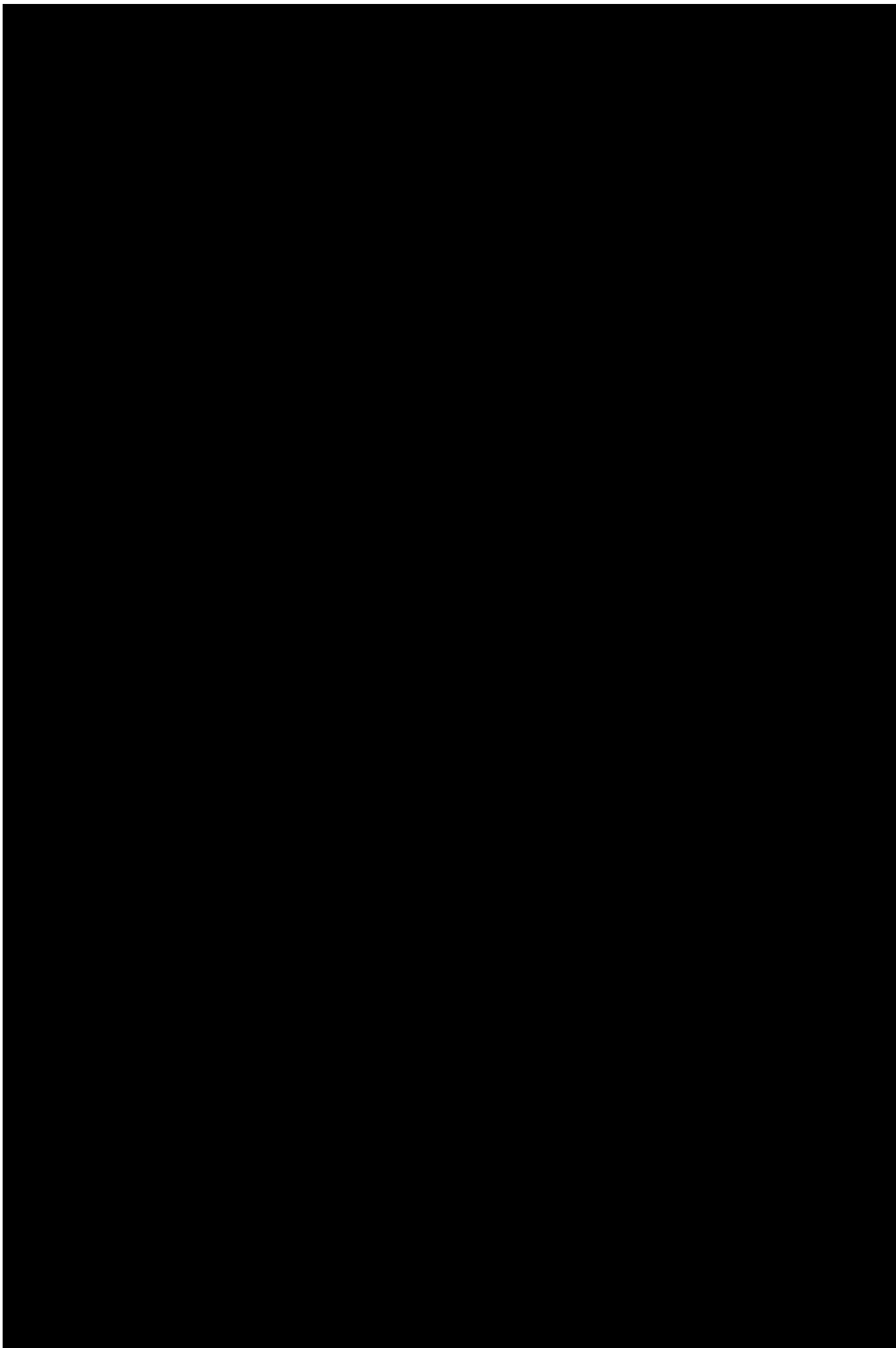
[Redacted]  
Senior Oil & Gas Specialist  
Petroleum Unit  
Resources and Energy Branch  
Northern Land Council

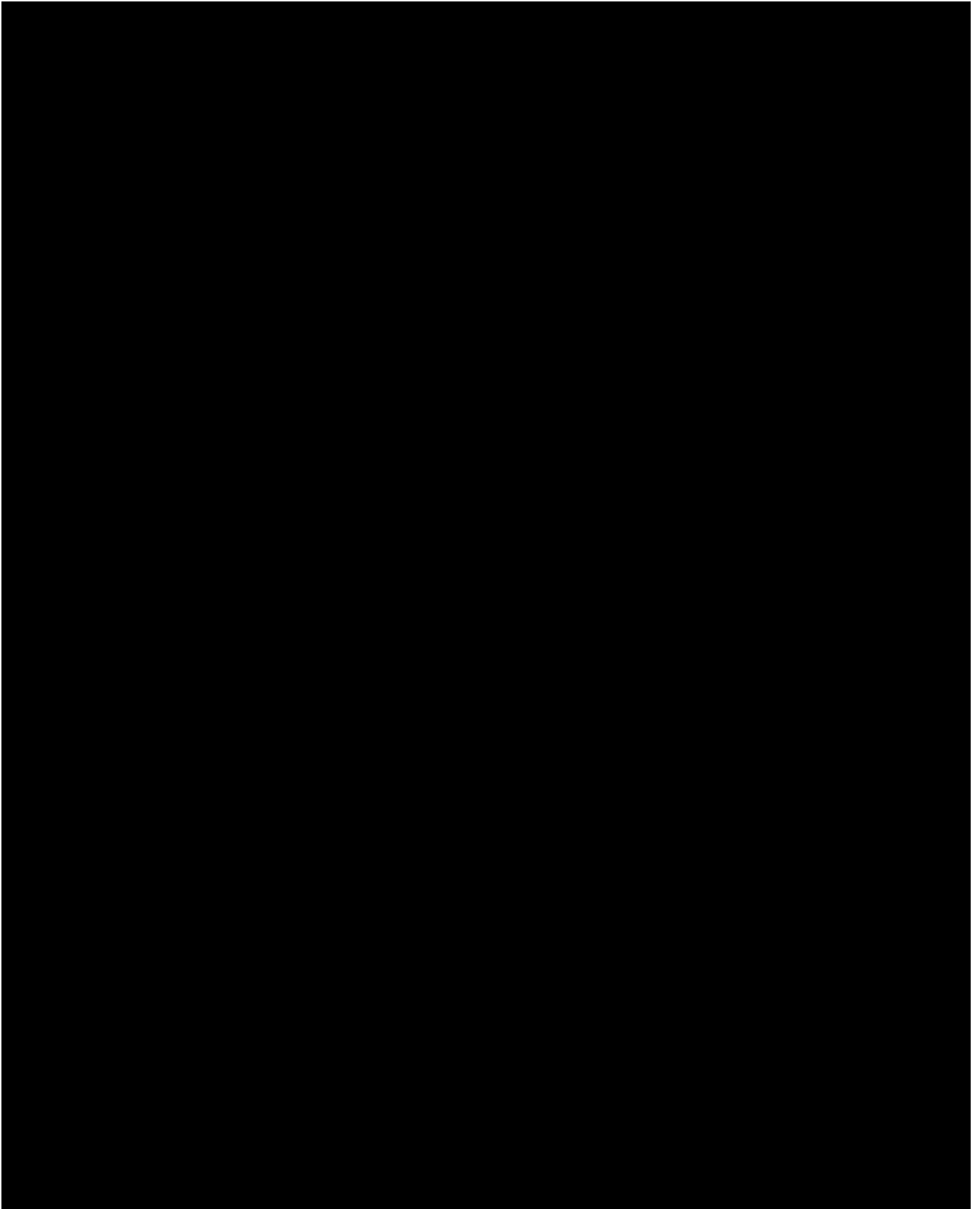


[Redacted]  
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[Redacted] | Website: [www.nlc.org.au](http://www.nlc.org.au)

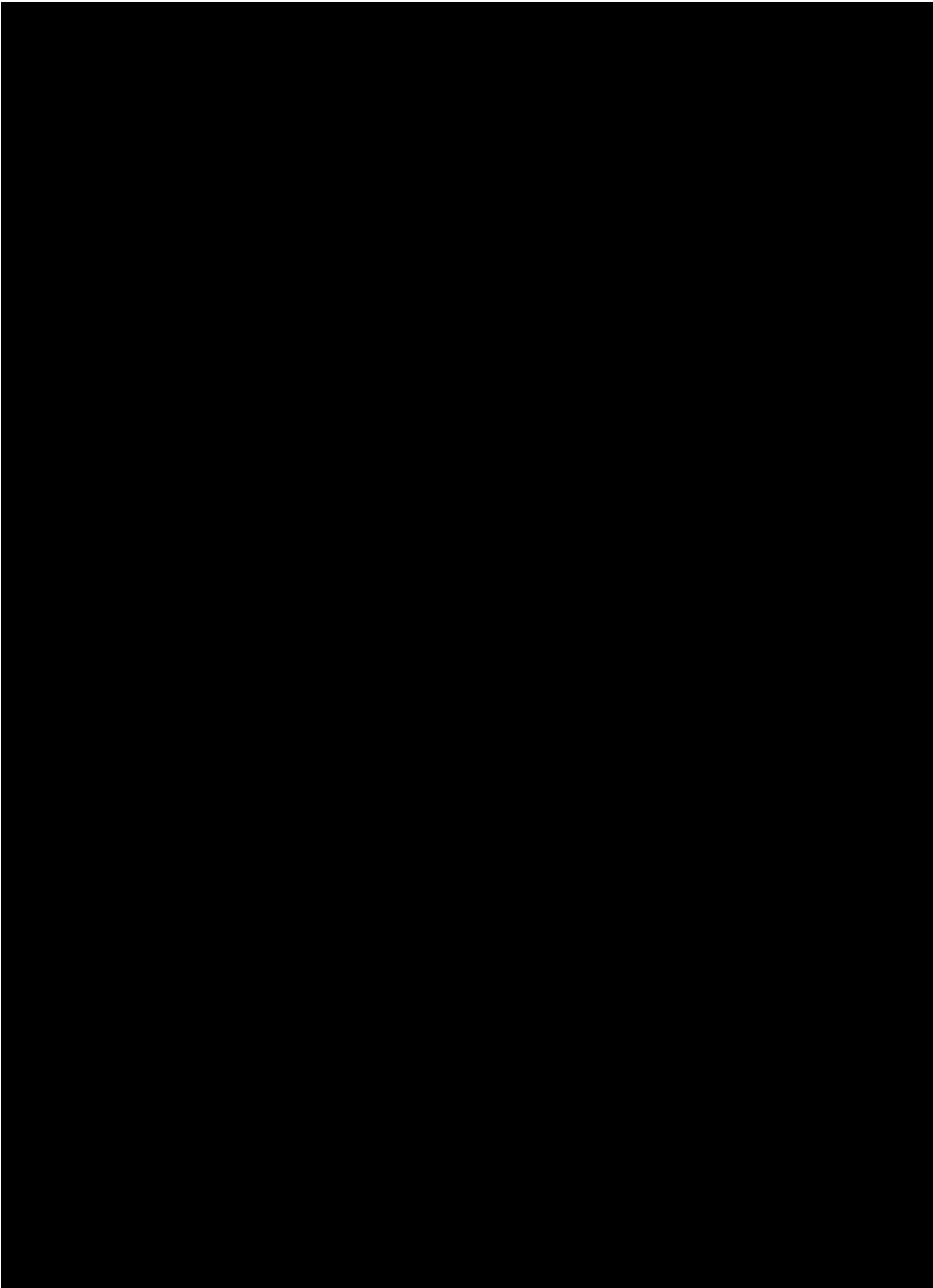


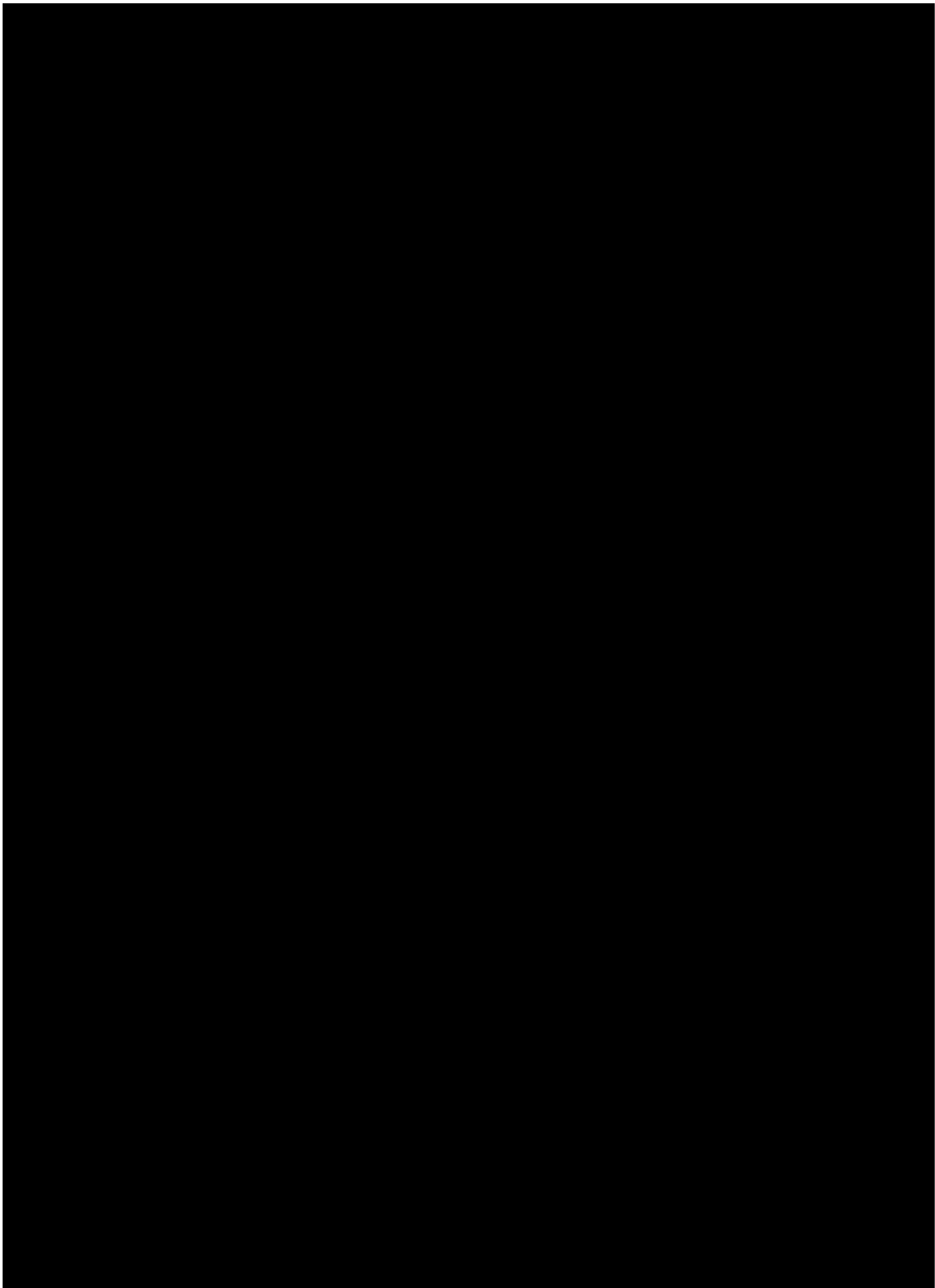


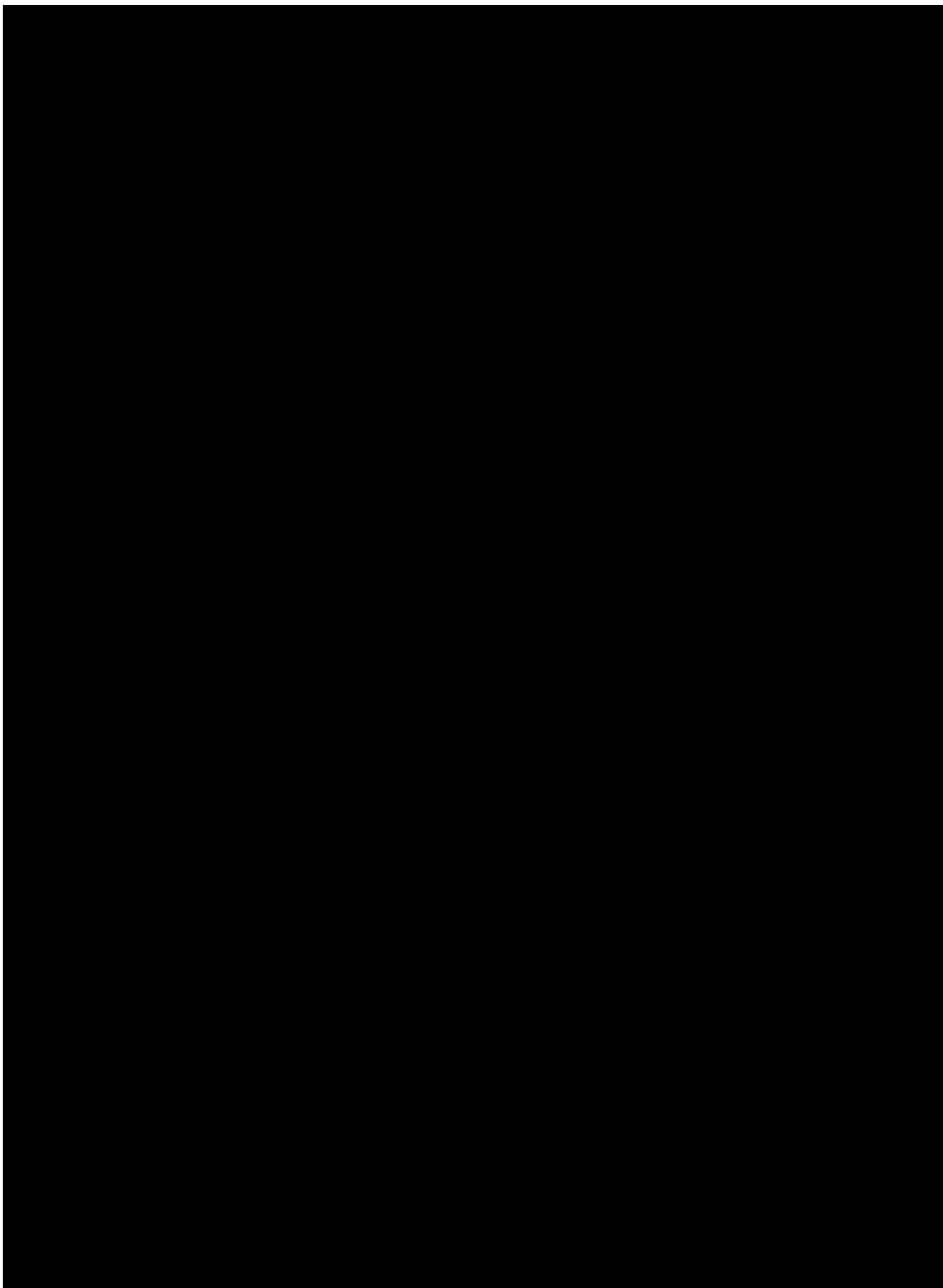


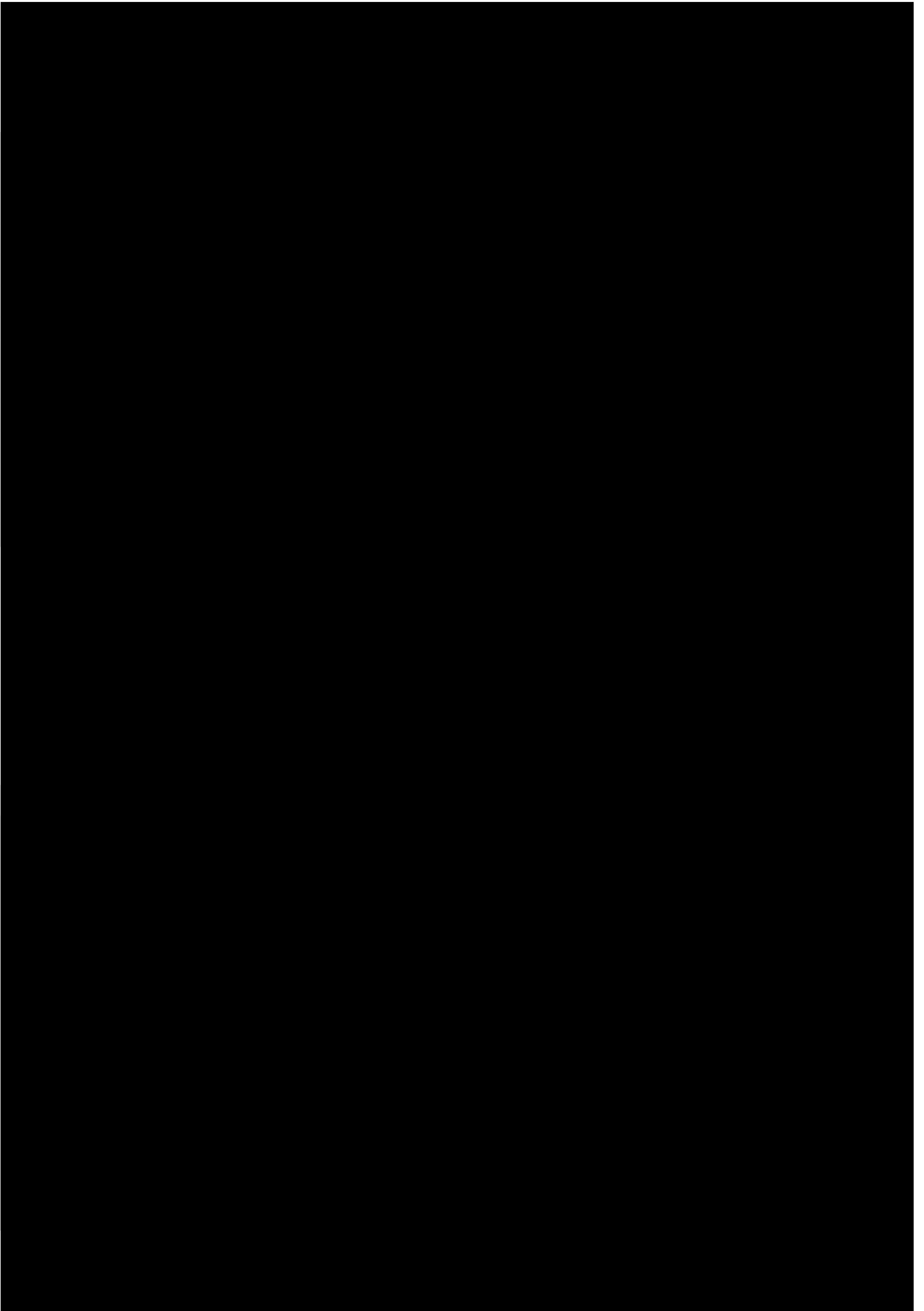


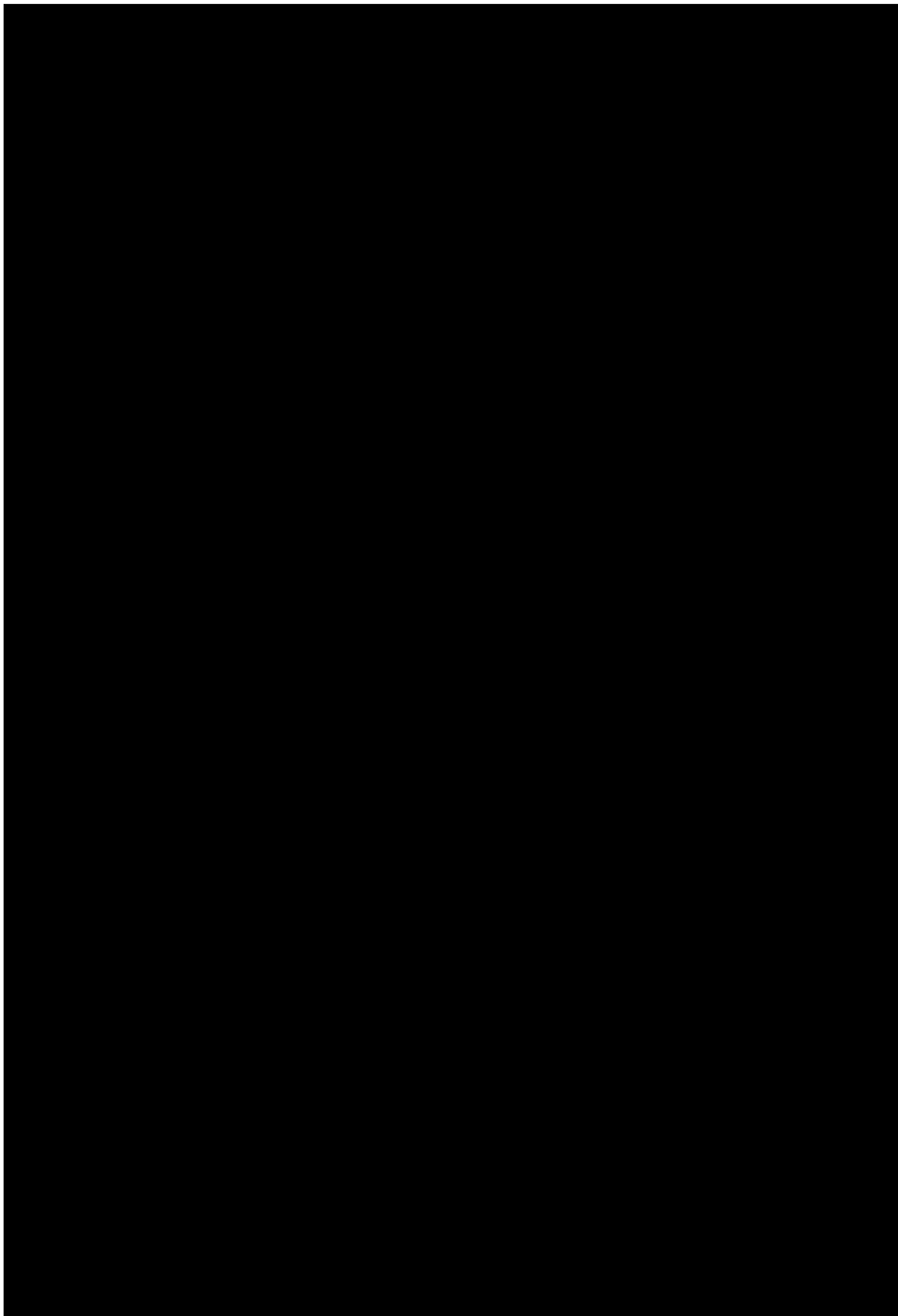
NLC – On-Country Presentation

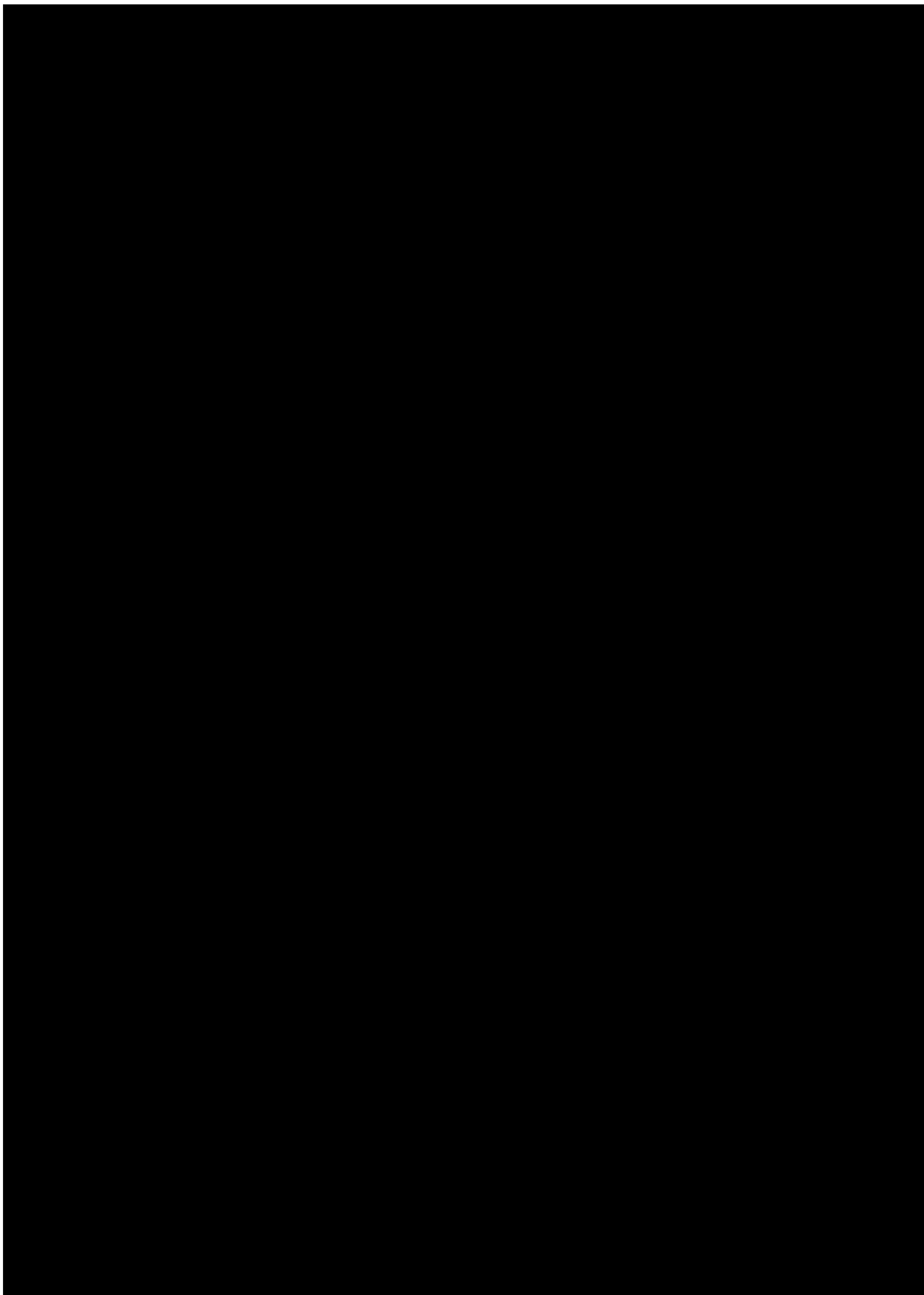


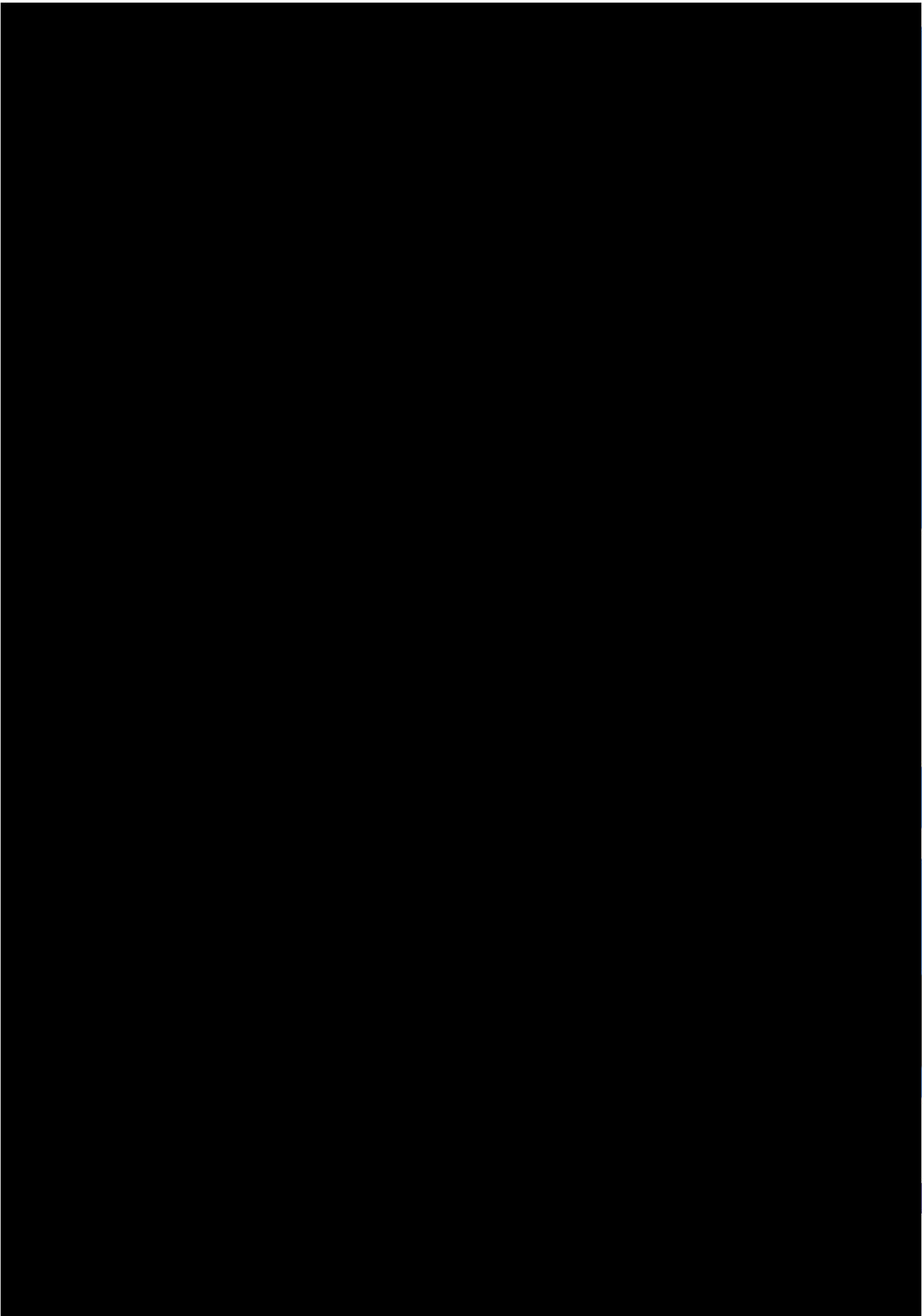


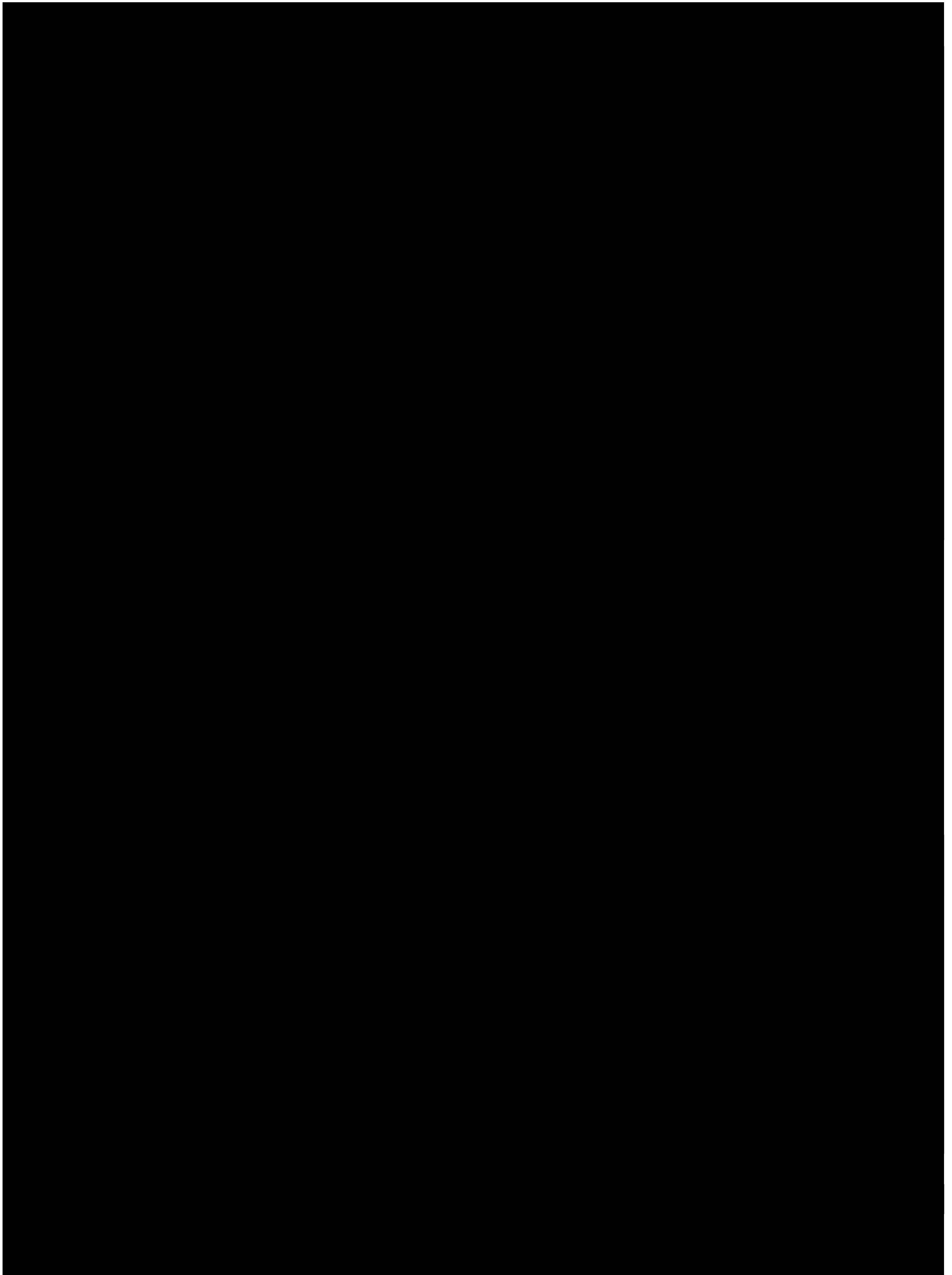


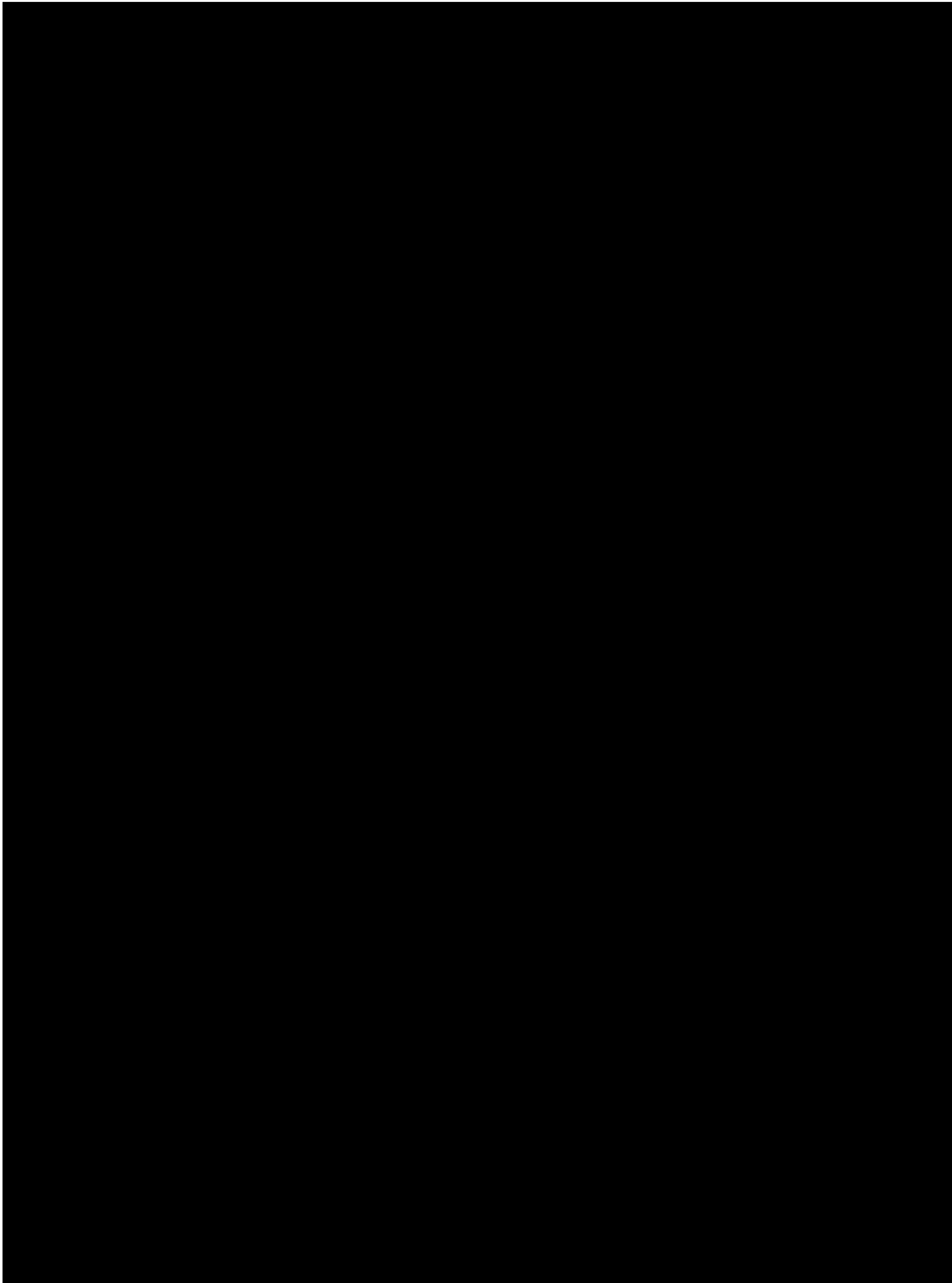


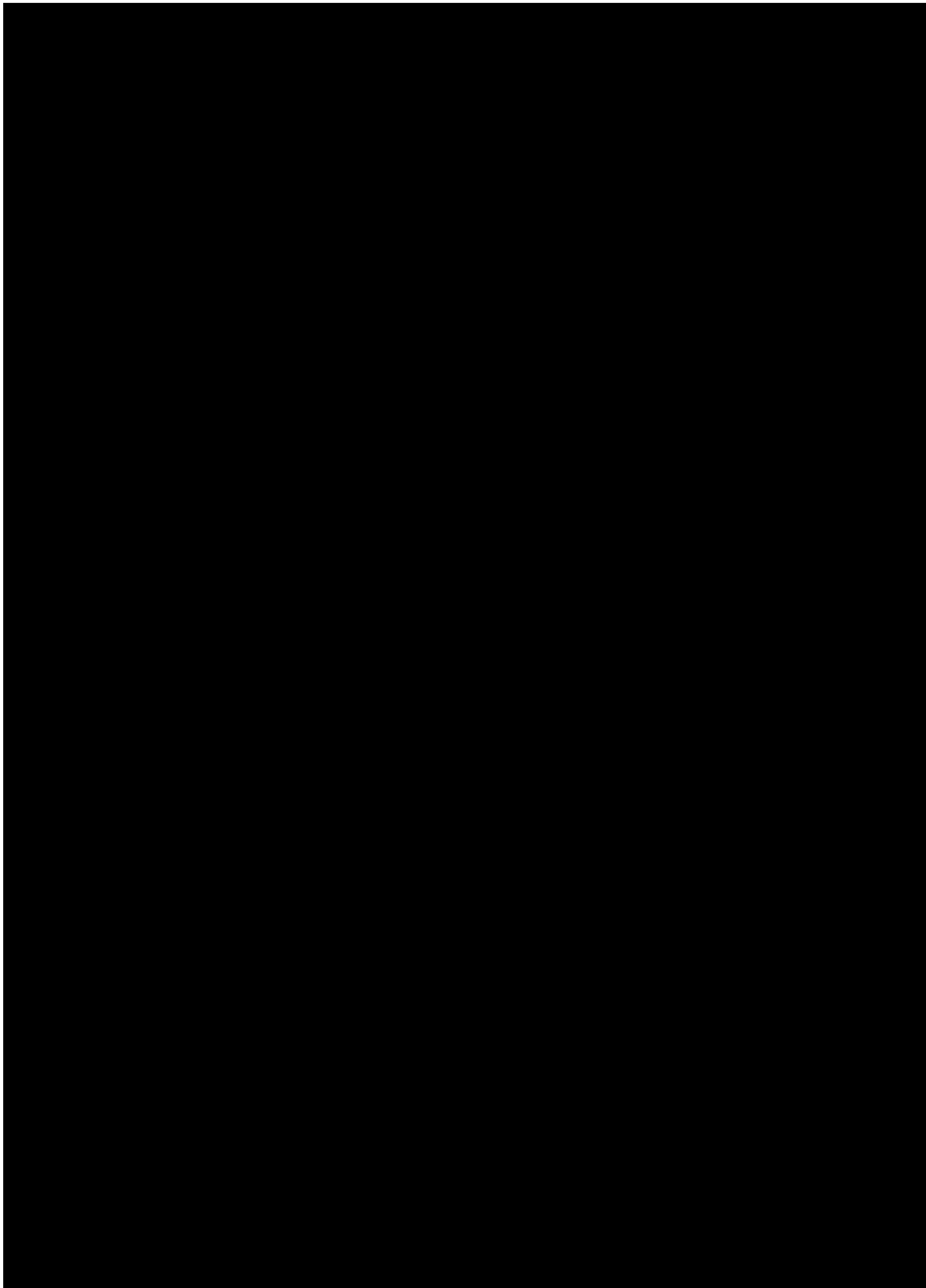


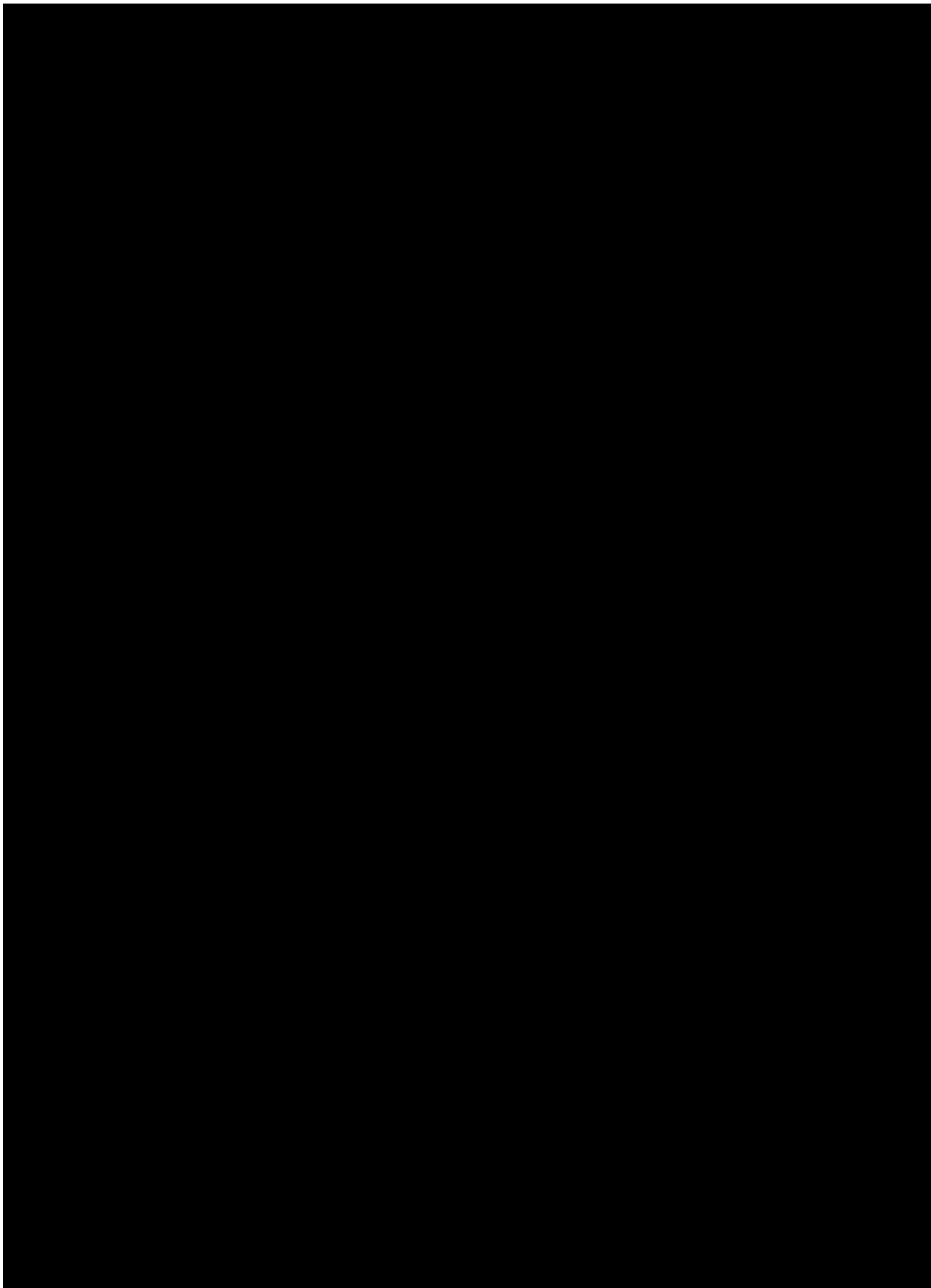


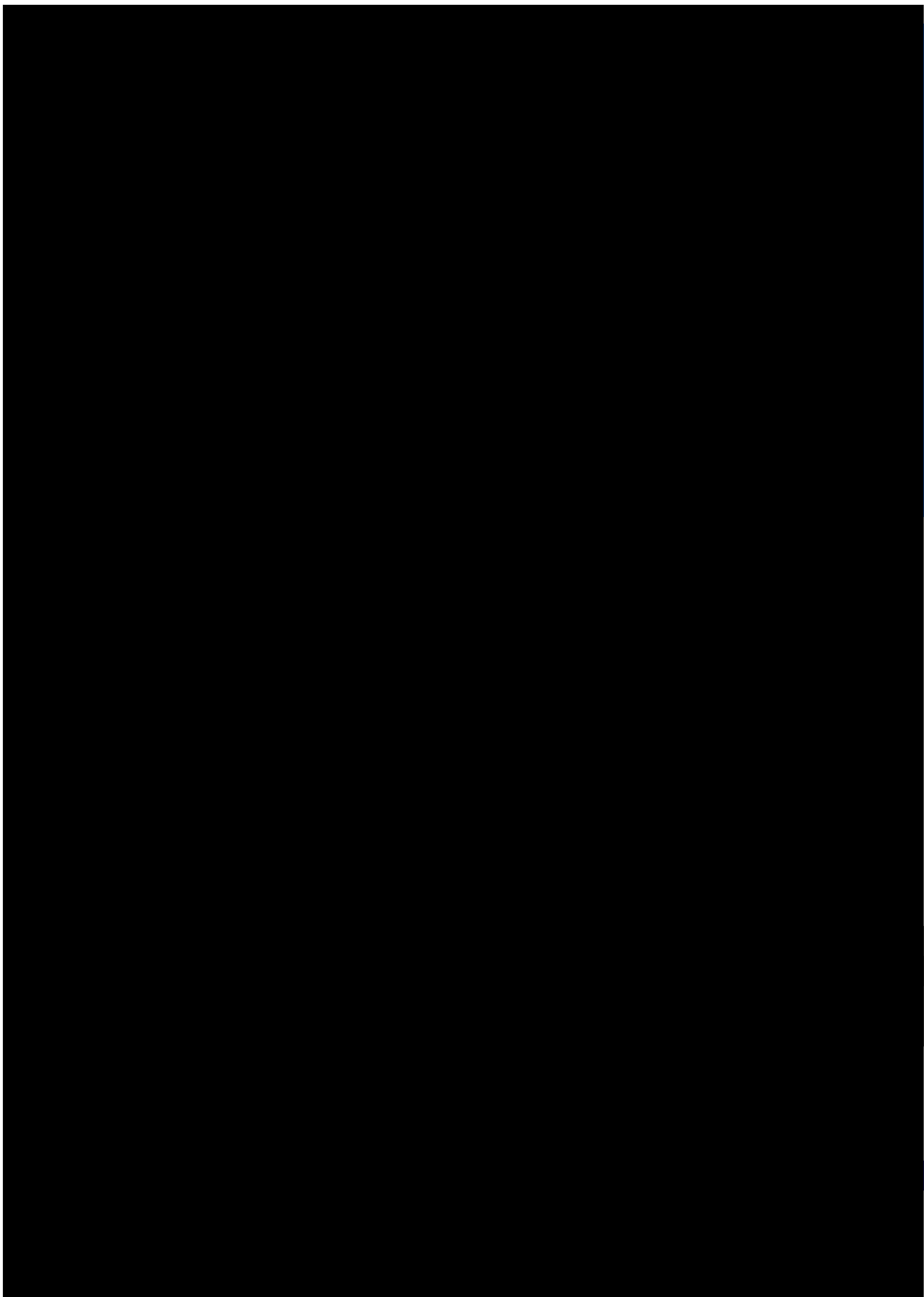


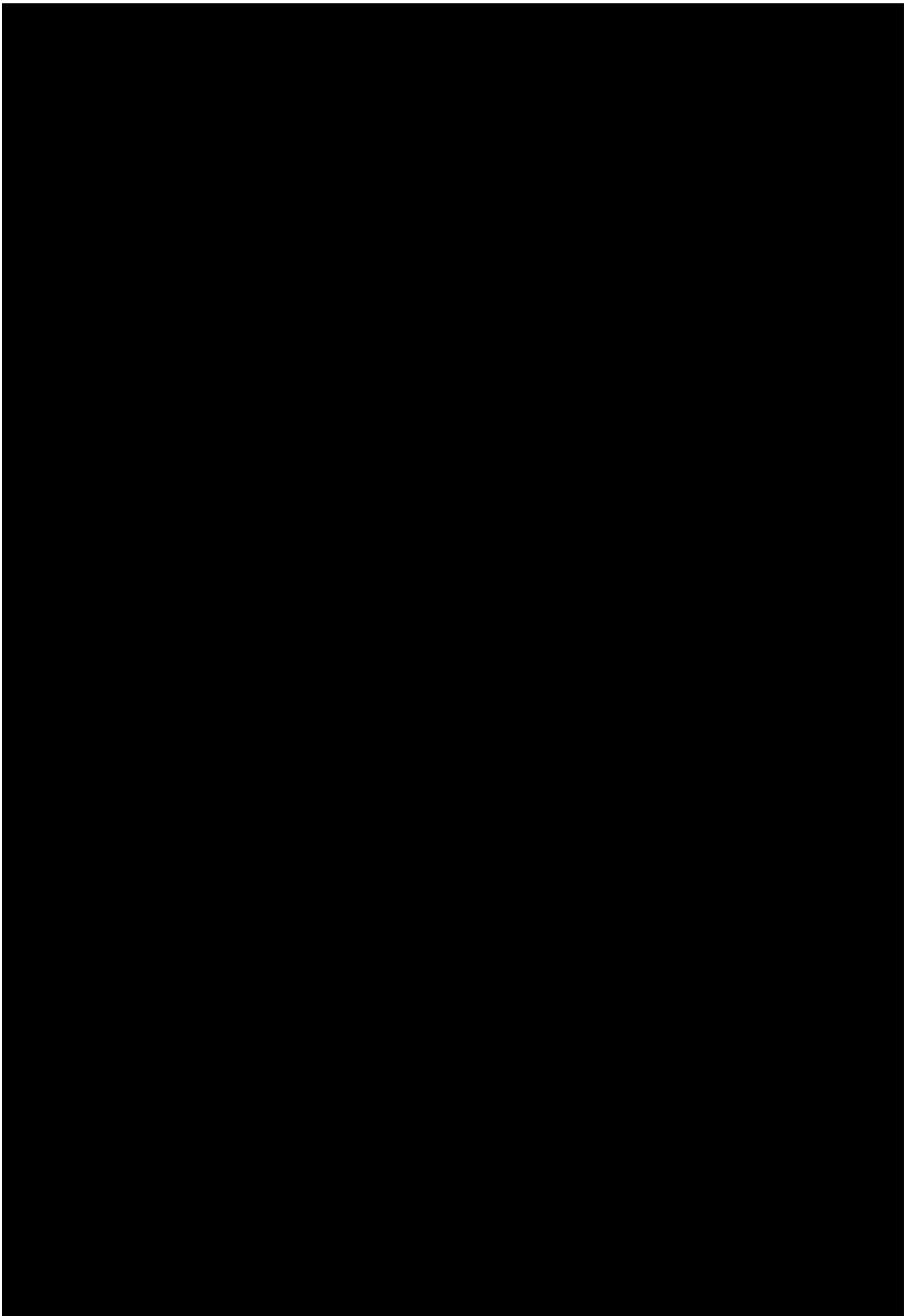


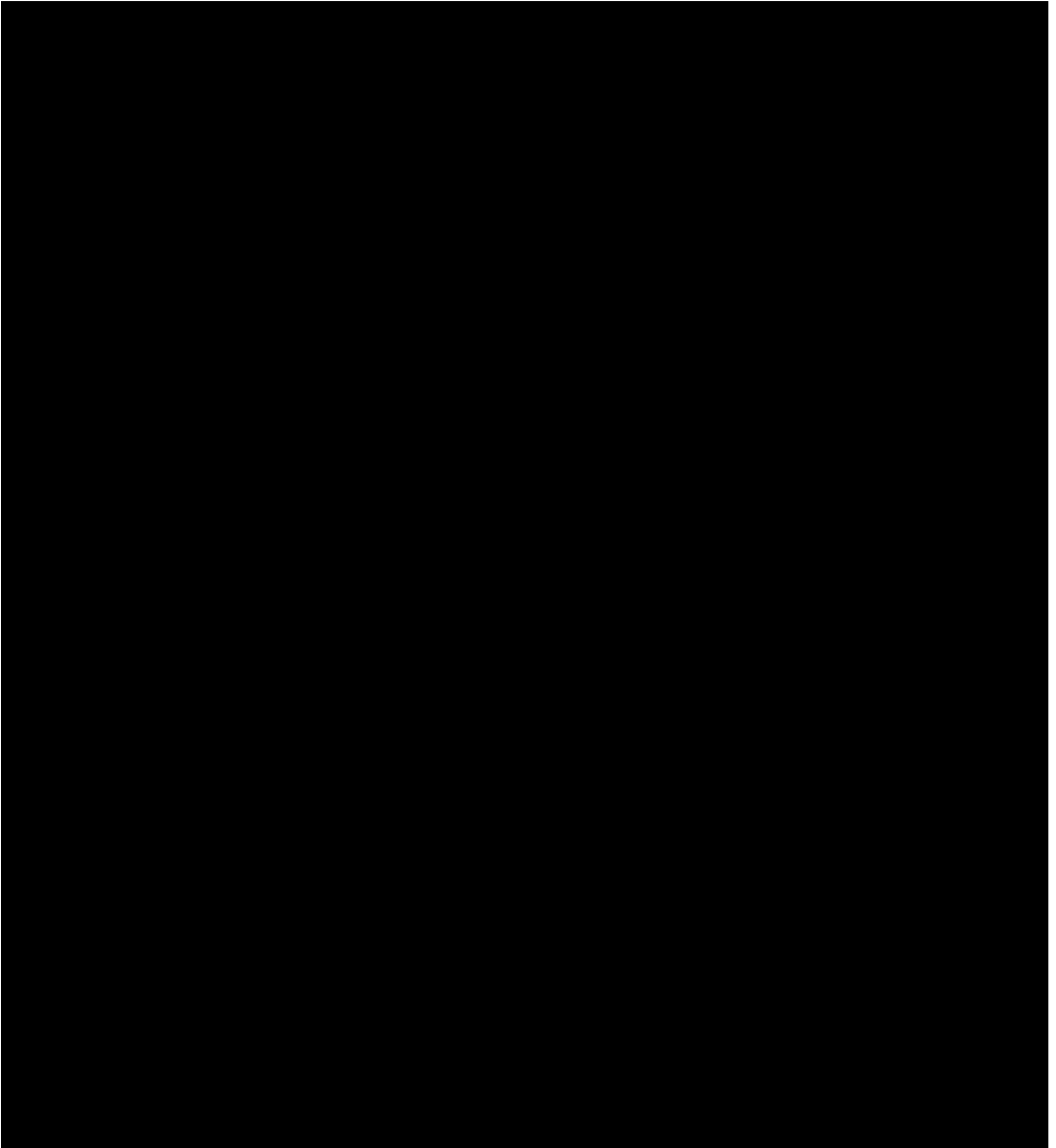


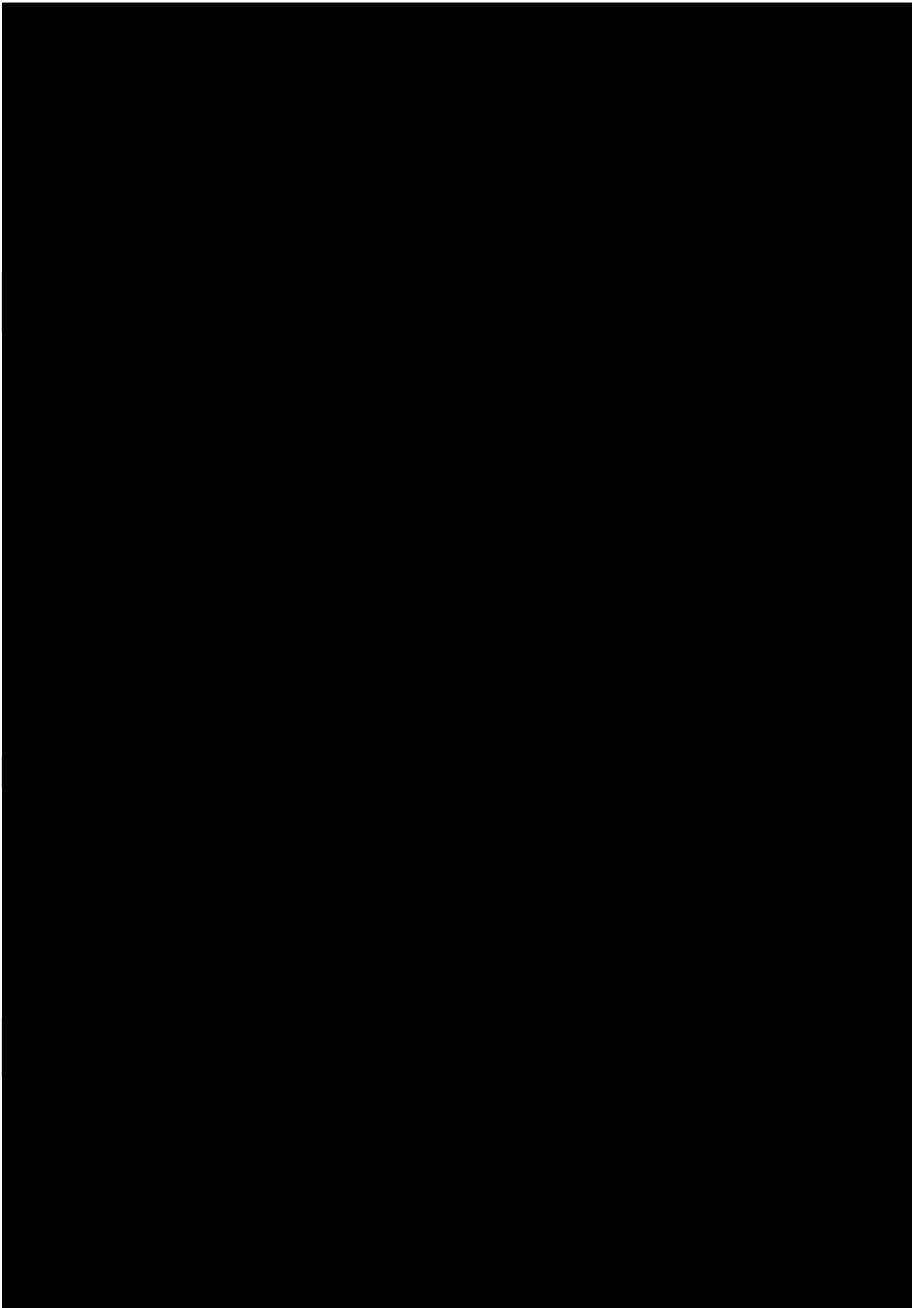


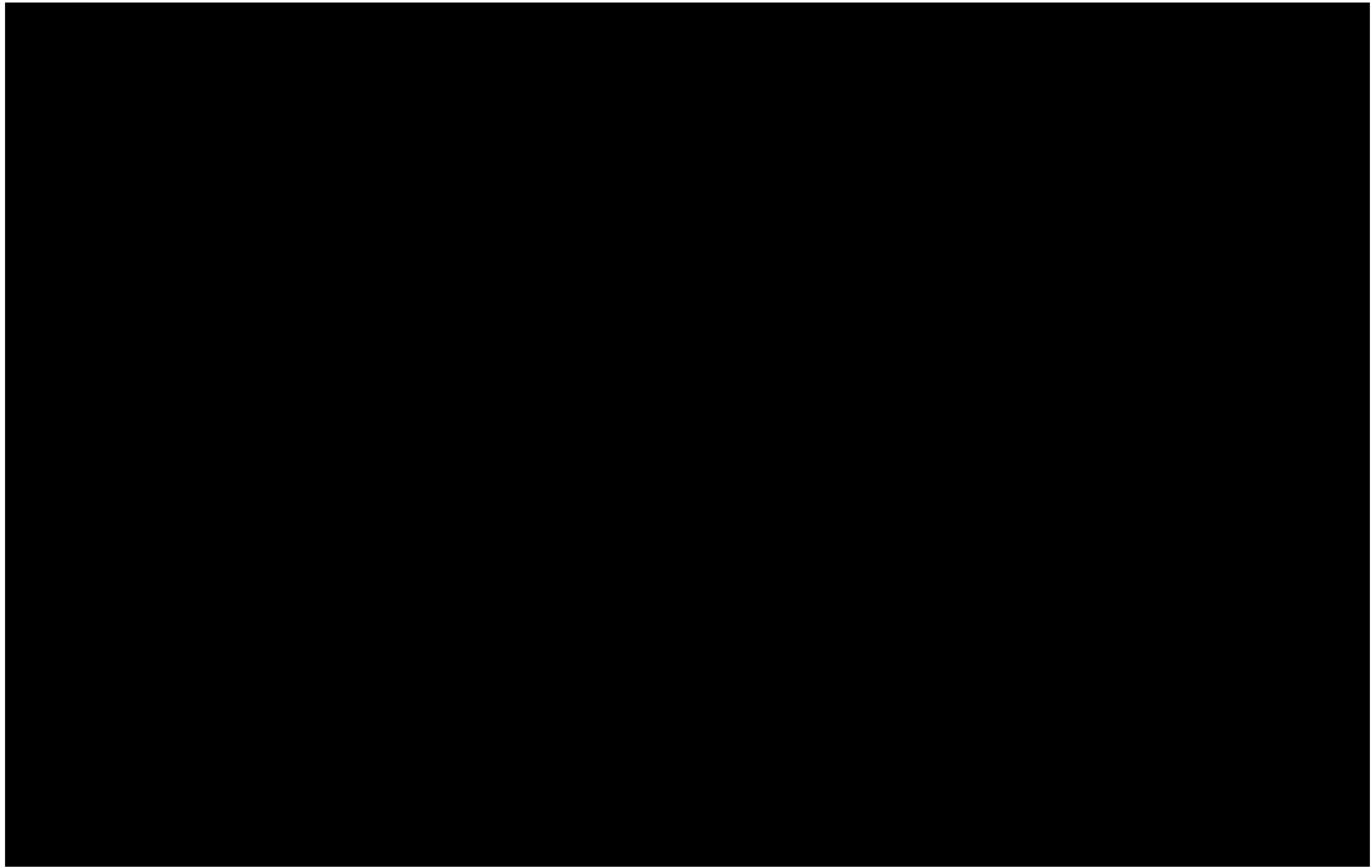


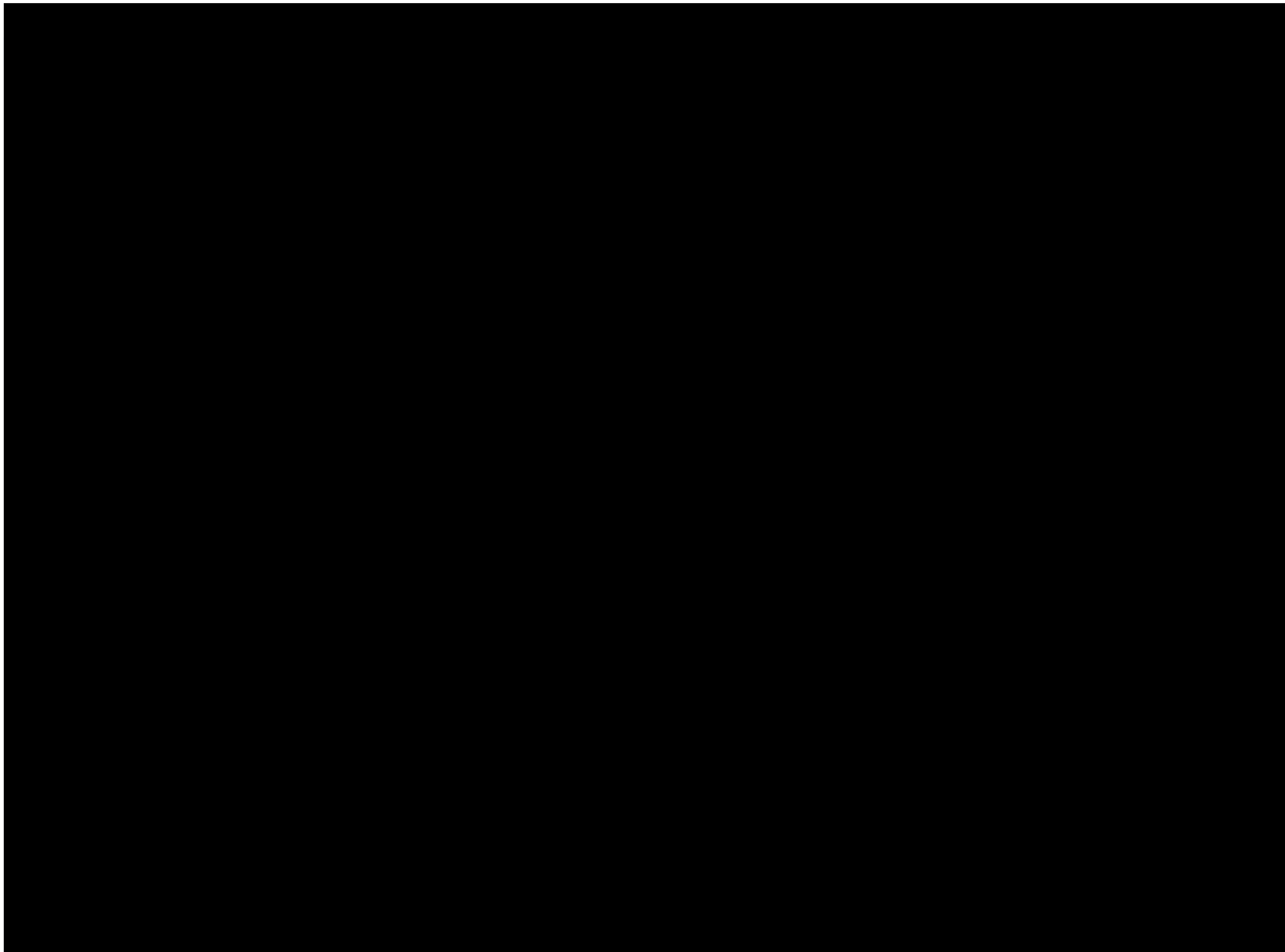


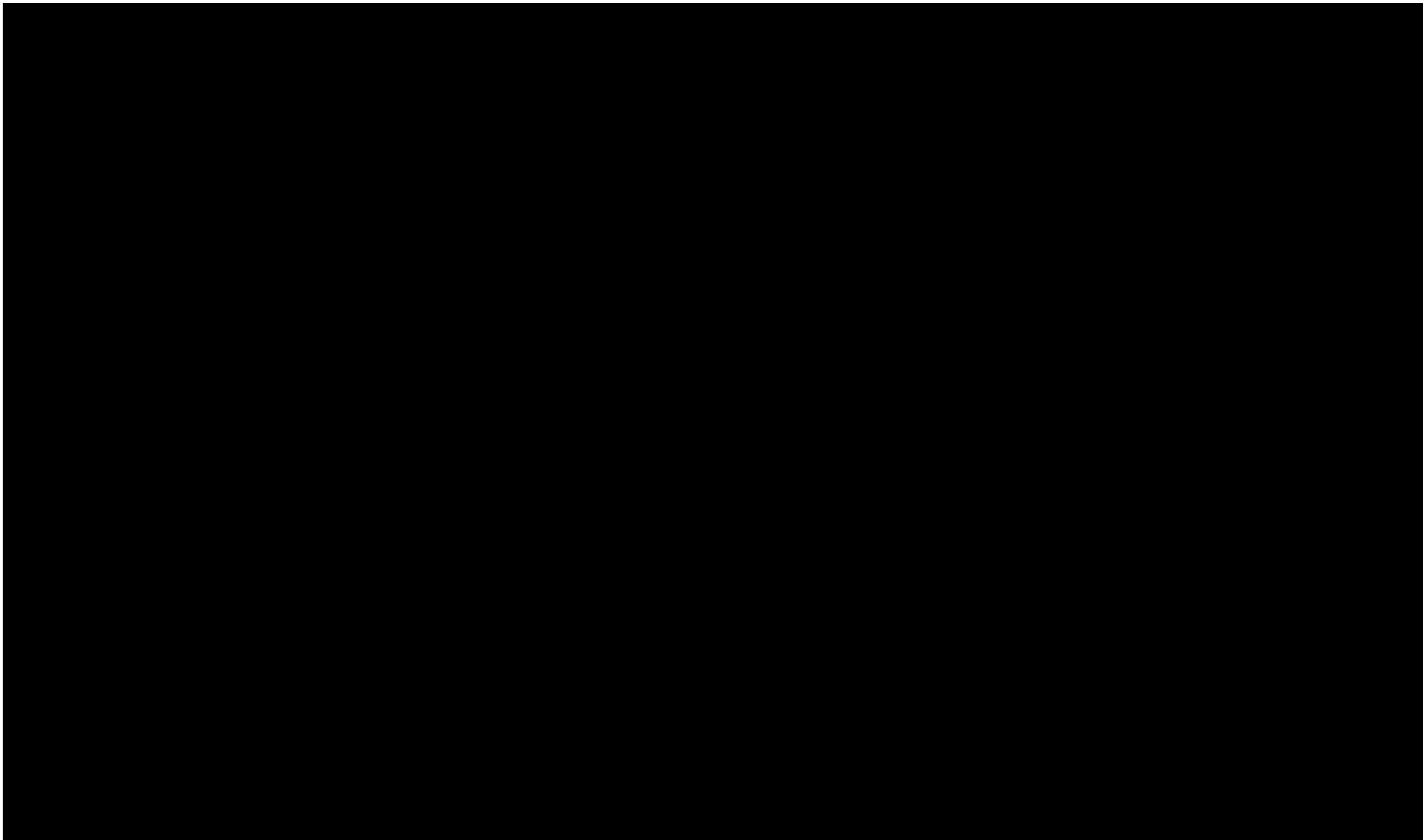












NLC – Draft EMP Review

**From:** [REDACTED]  
**Subject:** EP161 EMP DRAFT  
**Date:** Friday, 5 September 2025 09:09:00  
**Attachments:** [Beetaloo Appraisal Pilot EMP - draft - 4 Sep 2025.pdf](#)  
[image001.jpg](#)

---

Good Morning,

Further to my earlier email, please find **attached** a current draft of our EMP for your information, and to assist in our engagement with Traditional Owners.

[REDACTED] and I will be in the NT next week, so please let us know if you would like to meet to discuss anything while we're there (mid-late morning Wednesday or early Monday afternoon), otherwise happy to jump on a Teams call any other time.

Kind Regards,

[REDACTED]  
[REDACTED]

Lead Aboriginal Engagement and Cultural Heritage (NT)  
Eastern AU & PNG EHSR



[REDACTED]

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Santos acknowledges the Traditional Owners and Custodians of the lands on which we operate. We pay our respects to their Elders past, present and emerging.

## **N.4 Engagement – NAC**

NAC Information Pack

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** Thursday, 26 June 2025 15:22  
**To:** [REDACTED]  
**Subject:** Santos EP161 - Beetaloo Appraisal EMP Stakeholder Engagement  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf

Good afternoon,

My name is [REDACTED] and I'm the new Aboriginal Engagement and Cultural Heritage Lead for Santos in the Northern Territory.

You have been communicating with my colleagues [REDACTED] to this point on the various environment management plan activities relating to the Santos' Exploration Permit 161, and I'm picking it up from here.

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake new activities requiring approval under the Petroleum (Environment) Regulations 2016 (**PER**). Environment Management Plan (**EMP**)

Santos is engaging with traditional owners as part of stakeholder engagement on these proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) which includes the preparation of a new Environment Management Plan (**EMP**). Through this, Santos is also seeking feedback on the proposed activities to help inform further Project planning.

Santos has identified the Nurrdalindi Aboriginal Corporation (**NAC**) as a stakeholder under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**).

I am also aware that NAC's feedback has recently been sought by my colleagues as part of a review of the existing McArthur Basin Civil and Seismic Program EMP (**McArthur Civil and Seismic EMP**). It is Santos' intention to consolidate the two project activities into one EMP, so will propose engaging with stakeholders, including NAC, on proposed activities presented in both EMP proposals at the same time.

As part of Santos' stakeholder engagement processes in relation to the Beetaloo Appraisal EMP, we are circulating the **attached** information pack to all stakeholders. This pack details the proposed activities and outlines the engagement process Santos will undertake, in accordance with the PER.

Santos proposes a minimum period of 28 days, as a reasonable period of time, for the NAC to consider the information provided in this Information Pack, as well as matters covered in the McArthur Civil and Seismic EMP sent to you yesterday by [REDACTED]

NAC can provide feedback on the proposed activities by –

- Completing the feedback form in Appendix A;
- Emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com);
- Visiting or calling our Darwin office at T14/15 41 The Mall Darwin, NT (08) 8116 5000
- Contacting myself on the details below.

Additionally, Santos is offering to meet with NAC representatives to discuss the information pack and any feedback relating to the EMP matters, at a location convenient to NAC. If this is something you would like to do, please let me know as soon as possible, so we can make the necessary arrangements, noting the timeframe of 28 days outlined above.

Feedback from stakeholder engagement will be considered by Santos and assist with decision-making relating to the proposed activities and the broader Project, and where possible accommodating any expectations of ongoing communications and engagement.

Your feedback is therefore very important.

Please note, Santos is also engaging with the Northern Land Council, who are making arrangements for an on-country meeting for Native Title holders and their representatives to discuss the proposed activities at the end of July 2025.

Any questions, please contact me.

Kind Regards,

[Redacted]

[Redacted]

Lead Aboriginal Engagement and Cultural Heritage (NT)

Eastern AU & PNG EHSR



[Redacted]

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## NAC Information Pack Follow Up

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** Monday, 7 July 2025 13:20  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Fw: Santos EP161 - eetaloo Appraisal EMP Stakeholder Engagement  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf  
**Categories:** Tracked To Dynamics 365

Good Afternoon,

Just following up on the email below.

If you would like to meet with us to discuss any of the below, please let me know as soon as possible so we can arrange within the consultation timeframe.

I look forward to hearing from you.

Kind Regards,

[REDACTED]  
Lead Aboriginal Engagement and Cultural Heritage (NT)  
Eastern AU & PNG EHSR

**Santos**

[REDACTED]  
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---

**From:** [REDACTED]  
**Sent:** 26 June 2025 15:21  
**To:** [REDACTED]  
[REDACTED]  
[REDACTED]  
**Subject:** Santos EP161 - eetaloo Appraisal EMP Stakeholder Engagement

Good afternoon,

My name is [REDACTED], and I'm the new Aboriginal Engagement and Cultural Heritage Lead for Santos in the Northern Territory.

You have been communicating with my colleagues [REDACTED] to this point on the various environment management plan activities relating to the Santos' Exploration Permit 161, and I'm picking it up from here.

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Santos proposes a minimum period of 28 days, as a reasonable period of time, for the NAC to consider the information provided in this Information Pack, as well as matters covered in the McArthur Civil and Seismic EMP sent to you yesterday by [REDACTED]

NAC can provide feedback on the proposed activities by –

- Completing the feedback form in Appendix A;
- Emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com);
- Visiting or calling our Darwin office at T14/15 41 The Mall Darwin, NT (08) 8116 5000
- Contacting myself on the details below.

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Please note, Santos is also engaging with the Northern Land Council, who are making arrangements for an on-country meeting for Native Title holders and their representatives to discuss the proposed activities at the end of July 2025.

Any questions, please contact me.

Kind Regards,



  
Lead Aboriginal Engagement and Cultural Heritage (NT)  
Eastern AU & PNG EHSR

**Santos**



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**N.5 Engagement – Power and Water Corporation**

Information Pack - PWC

**From:** [REDACTED]  
**Subject:** Santos EP161 Beetaloo Appraisal Information Pack  
**Date:** Friday, 20 June 2025 12:21:00  
**Attachments:** [Santos Beetaloo Appraisal Information Pack June 2025.pdf](#)

---

Good afternoon,

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

The attached information pack is provided to identified stakeholders under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**). This document outlines the engagement process Santos will undertake in support of the EMP, in accordance with the PER.

Regulation 7(2)(b) of the PER requires that a reasonable period be allowed for the stakeholder to respond to information given by Santos. Santos proposes a minimum period of 28 days, as a reasonable period for stakeholders to consider the information provided in this Information Pack.

The feedback and communications from stakeholder engagement will be consolidated to assist with decision-making where there is an opportunity to influence project decisions and determine processes to meet community expectations for ongoing communication. Your feedback about these matters is important.

Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

[REDACTED]  
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PWC - Response

[Redacted]

**From:** [Redacted]  
**Sent:** Friday, 18 July 2025 15:27  
**To:** [Redacted]  
**Subject:** ![EXT]: RE: Santos EP161 Beetaloo Appraisal Information Pack

Hi [Redacted]

How are you?

We have shared this with the team, and at this stage I have no specific feedback.

Thank you for following up.

[Redacted]

[Redacted]

Chief of Staff  
CEO and Board Support  
Safety, People and Governance

[Redacted]

[Redacted]



[powerwater.com.au](http://powerwater.com.au)

*I acknowledge the Traditional Owners and Custodians of the lands on which I live and work and pay my respect to Elders*

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---

**From:** [Redacted]  
**Sent:** Thursday, 17 July 2025 3:26 PM  
**To:** [Redacted]  
**Subject:** FW: Santos EP161 Beetaloo Appraisal Information Pack

**CAUTION:** This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good afternoon,

I have tried phoning with no success.

Per below, I'm writing to advise that the engagement period concerning Santos' proposed activities in EP161 will close tomorrow.

With that in mind, would Power and Water like to discuss Santos' proposed activities?

Kind regards,

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

[REDACTED]  
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---

**From:** [REDACTED]  
**Sent:** Friday, 20 June 2025 12:22  
**Subject:** Santos EP161 Beetaloo Appraisal Information Pack

Good afternoon,

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016 (PER)*. Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

The attached information pack is provided to identified stakeholders under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**). This document outlines the engagement process Santos will undertake in support of the EMP, in accordance with the PER.

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The feedback and communications from stakeholder engagement will be consolidated to assist with decision-making where there is an opportunity to influence project decisions and determine processes to meet community expectations for ongoing communication. Your feedback about these matters is important.

Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

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**N.6 Engagement – Telstra/ Amplitel**

## Information Pack: Telstra/ Amplitel

[REDACTED]

---

**From:** SantosNTonshore  
**Sent:** Wednesday, 25 June 2025 16:20  
**To:** [REDACTED]  
**Subject:** EP161 appraisal EMP - stakeholder info pack  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf

Good afternoon [REDACTED]

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

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Regards  
Santos

Response: Telstra/ Amplitel

[Redacted]

---

**From:** [Redacted]  
**Sent:** Tuesday, 16 September 2025 13:30  
**To:** [Redacted]  
**Cc:** [Redacted]  
**Subject:** RE: EP161 appraisal EMP - stakeholder info pack

Hi [Redacted]

Just wanted to follow up and let you know we are now progressing to finalising the EMP for this proposed scope.

Just also wanted to confirm that the EMP now includes that access to cell towers will not be impeded by the activity as per your response.

Kind regards

[Redacted]

Senior Environmental Advisor – NT



[Redacted]

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---

**From:** [Redacted]  
**Sent:** Thursday, 26 June 2025 13:35  
**To:** [Redacted]  
**Subject:** ![EXT]: Re: EP161 appraisal EMP - stakeholder info pack

[Redacted]

[Redacted]

Hi, send through what you have & ill see if I can identify any impacted Amplitel sites.

Cheers

[Redacted]

Tower Asset Manager

[Redacted]

This email may contain confidential information. If I've sent it to you by accident, please delete it immediately.



Amplitel recognises and acknowledges the existing, original, and ancient connection Aboriginal and Torres Strait Islander peoples have to the lands and waterways across the Australian continent. We pay our respects to their Elders past, present and emerging.

General

---

**From:** [REDACTED]  
**Sent:** Thursday, June 26, 2025 11:00 AM  
**To:** [REDACTED]  
[REDACTED]  
**Subject:** RE: EP161 appraisal EMP - stakeholder info pack

[External Email] This email was sent from outside the organisation – be cautious, particularly with links and attachments.

Hi [REDACTED]

Thank you for your prompt response.

Would shapefiles of the proposal help with determining its location in regard to your infrastructure?

Alternatively, happy to provide a more detailed map.

Kind regards

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** Thursday, 26 June 2025 10:17  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
[REDACTED]  
**Subject:** ![EXT]: Re: EP161 appraisal EMP - stakeholder info pack

[REDACTED]

Hi, thanks for the information & email, the provided pack doesn't provide the exact locations of works for me to ascertain what Amplitel structures could be affected. Can you please provide LAT/Long coordinates so I can map the surrounding Amplitel sites.

As a further note, access to Amplitel structures cannot be impeded by the proposed works.

Cheers

[REDACTED]  
Tower Asset Manager  
[REDACTED]

This email may contain confidential information. If I've sent it to you by accident, please delete it immediately.



Amplitel recognises and acknowledges the existing, original, and ancient connection Aboriginal and Torres Strait Islander peoples have to the lands and waterways across the Australian continent. We pay our respects to their Elders past, present and emerging.

General

---

**From:** SantosNTonshore <[SantosNTonshore@santos.com](mailto:SantosNTonshore@santos.com)>

**Sent:** Wednesday, June 25, 2025 3:49 PM

**To:** [REDACTED]

**Cc:** [REDACTED]

[REDACTED]

**Subject:** EP161 appraisal EMP - stakeholder info pack

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[External Email] This email was sent from outside the organisation – be cautious, particularly with links and attachments.

Good afternoon [REDACTED]

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

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Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

Regards  
Santos

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**N.7 Engagement – Department of Logistics and Infrastructure**

Information Pack - DLI

**From:** [REDACTED]  
**Bcc:** [REDACTED]  
**Subject:** Santos EP161 Beetaloo Appraisal Information Pack  
**Date:** Friday, 20 June 2025 12:21:00  
**Attachments:** [Santos Beetaloo Appraisal Information Pack June 2025.pdf](#)

---

Good afternoon,

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

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[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

[REDACTED]  
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Information Pack follow up - DLI

**From:** [REDACTED]  
**Cc:** [CEO DLI](#)  
**Subject:** ![[EXT]: RE: Santos EP161 Beetaloo Appraisal Information Pack  
**Date:** Thursday, 17 July 2025 16:05:58

---



Good afternoon,

On behalf of [REDACTED], Chief Executive Officer Department of Logistics and Infrastructure, I would like to thank you, but the Department has no comment regarding the proposed activities.

Kind regards

[REDACTED]  
Executive Officer to the Chief Executive  
Department of Logistics and Infrastructure

[REDACTED]  
[REDACTED]  
[REDACTED]



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The NT Government acknowledges the Aboriginal people and cultures of the land and country on which we work and live. We acknowledge the ongoing connection to culture, land, sea and community and pay our respects to Elders past and present and to emerging leaders.

---

**From:** [REDACTED]  
**Sent:** Thursday, 17 July 2025 3:22 PM  
**To:** [REDACTED]  
**Subject:** FW: Santos EP161 Beetaloo Appraisal Information Pack

**CAUTION:** This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi [REDACTED]

Thank you for your time on the phone and for confirming receipt.

As discussed, I'm writing to advise that the engagement period concerning Santos' proposed activities in EP161 will close tomorrow.

With that in mind, would the Department like to discuss Santos' proposed activities?

Kind regards,

[REDACTED]

Government and Stakeholder Relations Manager, NT



[REDACTED]

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---

**From:** [REDACTED]

**Sent:** Friday, 20 June 2025 12:22

**Subject:** Santos EP161 Beetaloo Appraisal Information Pack

Good afternoon,

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

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[REDACTED]  
Government and Stakeholder Relations Manager, NT



[REDACTED]  
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return email and delete the email without making a copy. **Please consider the environment before printing this email**

**N.8 Engagement – Roper Gulf Regional Council**

Information Pack – Roper Gulf Regional Council

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** Thursday, 26 June 2025 12:24  
**To:** [REDACTED]  
**Subject:** FW: Santos EP161 Beetaloo Appraisal Information Pack  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf; Relayed: Santos EP161 Beetaloo Appraisal Information Pack

FYI below and attached – no read receipt as yet.

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

[REDACTED]  
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**From:** [REDACTED]  
**Sent:** Thursday, 26 June 2025 10:10  
**To:** [REDACTED]  
**Subject:** Santos EP161 Beetaloo Appraisal Information Pack

Good morning,

Santos, as the registered interest holder and operator of Exploration Permit (**EP**) 161, is proposing to undertake works requiring approval under the *Petroleum (Environment) Regulations 2016* (**PER**). Santos is engaging on proposed activities for the McArthur/Beetaloo Appraisal Program (the **Project**) and an Environment Management Plan (**EMP**) is currently being drafted. Santos is seeking feedback on proposed activities to help inform Project planning.

The attached information pack is provided to identified stakeholders under regulation 7(3) of the PER for the EP 161 McArthur/Beetaloo Appraisal Pilot EMP (**Beetaloo Appraisal EMP**). This document outlines the engagement process Santos will undertake in support of the EMP, in accordance with the PER.

Regulation 7(2)(b) of the PER requires that a reasonable period be allowed for the stakeholder to respond to information given by Santos. Santos proposes a minimum period of 28 days, as a reasonable period for stakeholders to consider the information provided in this Information Pack.

The feedback and communications from stakeholder engagement will be consolidated to assist with decision-making where there is an opportunity to influence project decisions and determine processes to meet community expectations for ongoing communication. Your feedback about these matters is important.

Feedback on the proposed activity and their potential impacts, risks and proposed controls can be provided to Santos in a variety of ways including via the feedback form in Appendix A, emailing [enquiriesnt@santos.com](mailto:enquiriesnt@santos.com) or visiting our Shopfront in Darwin.

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**



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Information Pack follow up – Roper Gulf Regional Council

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Thursday, 17 July 2025 16:59  
**To:** [REDACTED]  
**Subject:** FW: Santos EP161 Beetaloo Appraisal Information Pack  
**Attachments:** Santos\_Beetaloo Appraisal Information Pack\_June 2025.pdf

Good afternoon,

I have tried phoning with no success.

Per below, I'm writing to advise that the engagement period concerning Santos' proposed activities in EP161 will soon close.

With that in mind, would the Council like to discuss Santos' proposed activities?

Kind regards,

[REDACTED]  
Government and Stakeholder Relations Manager, NT

**Santos**

[REDACTED]  
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