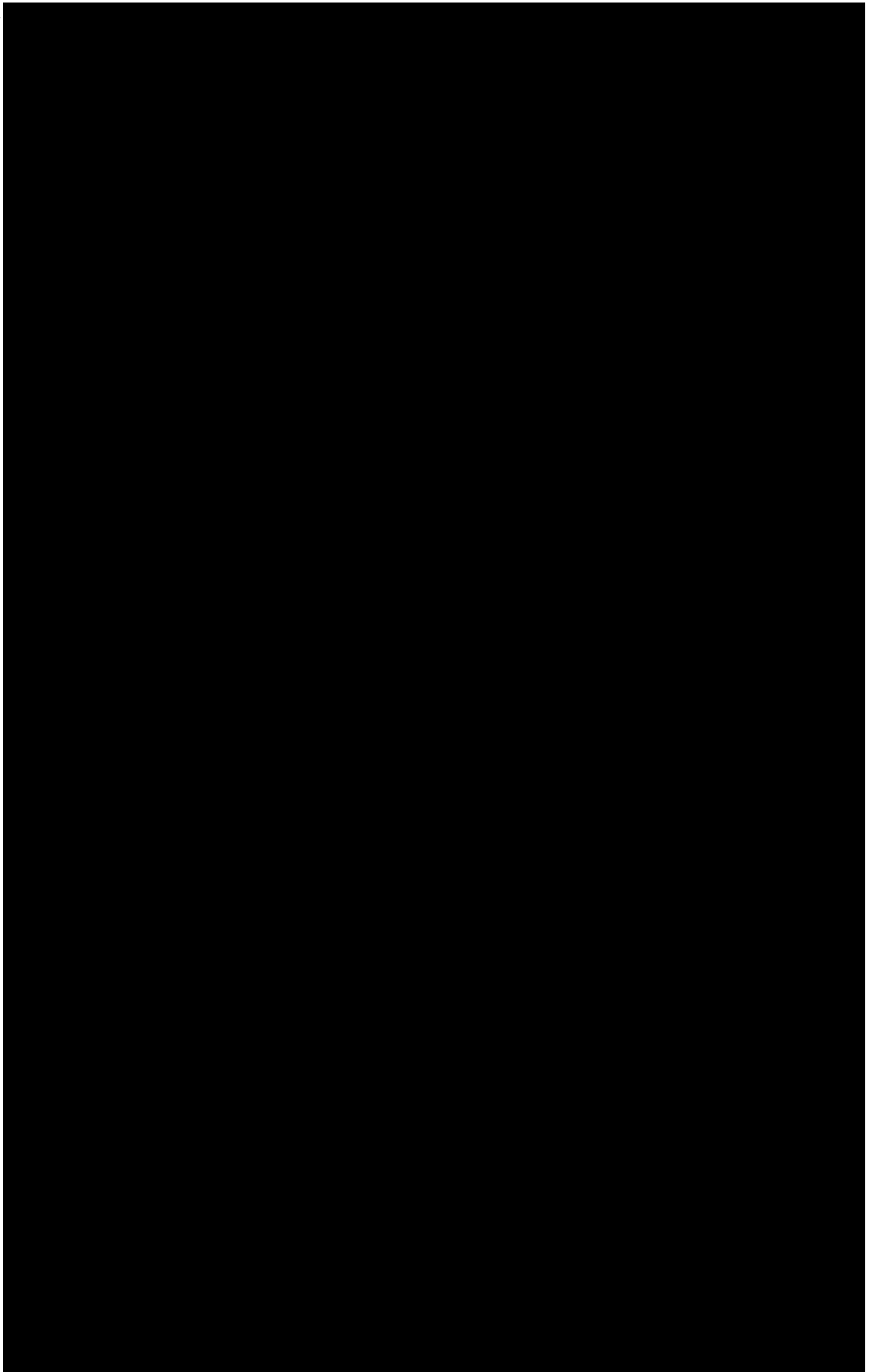
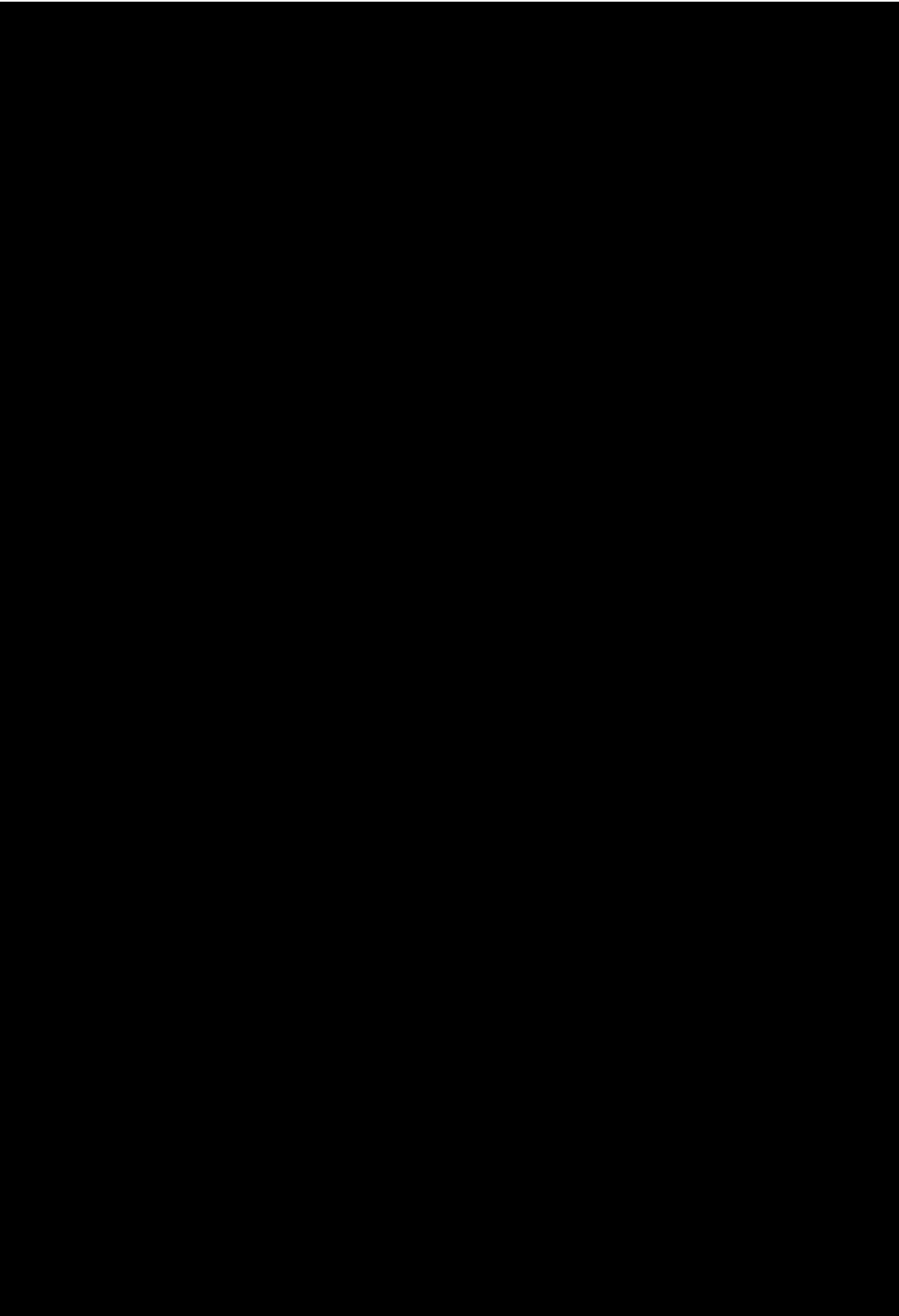


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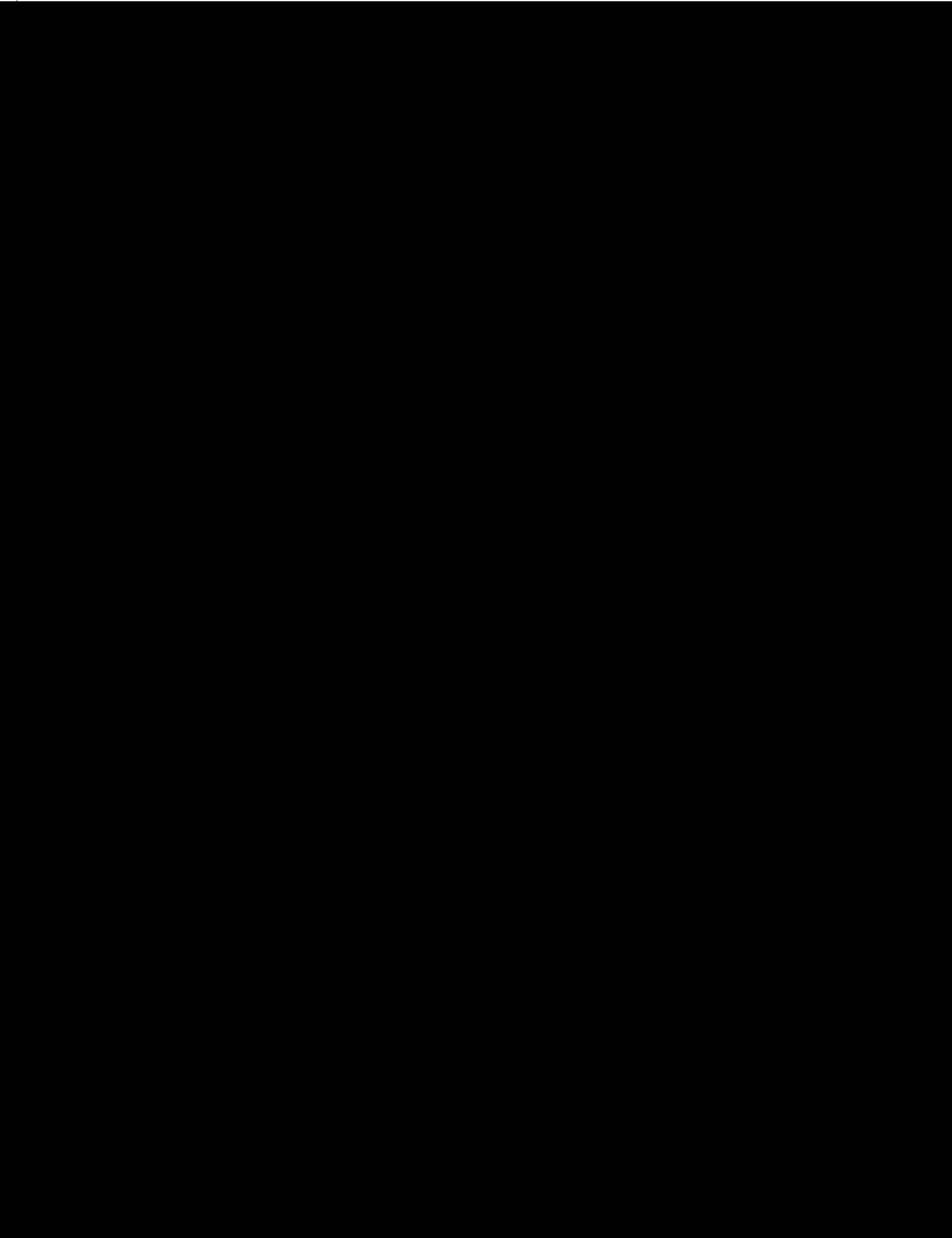
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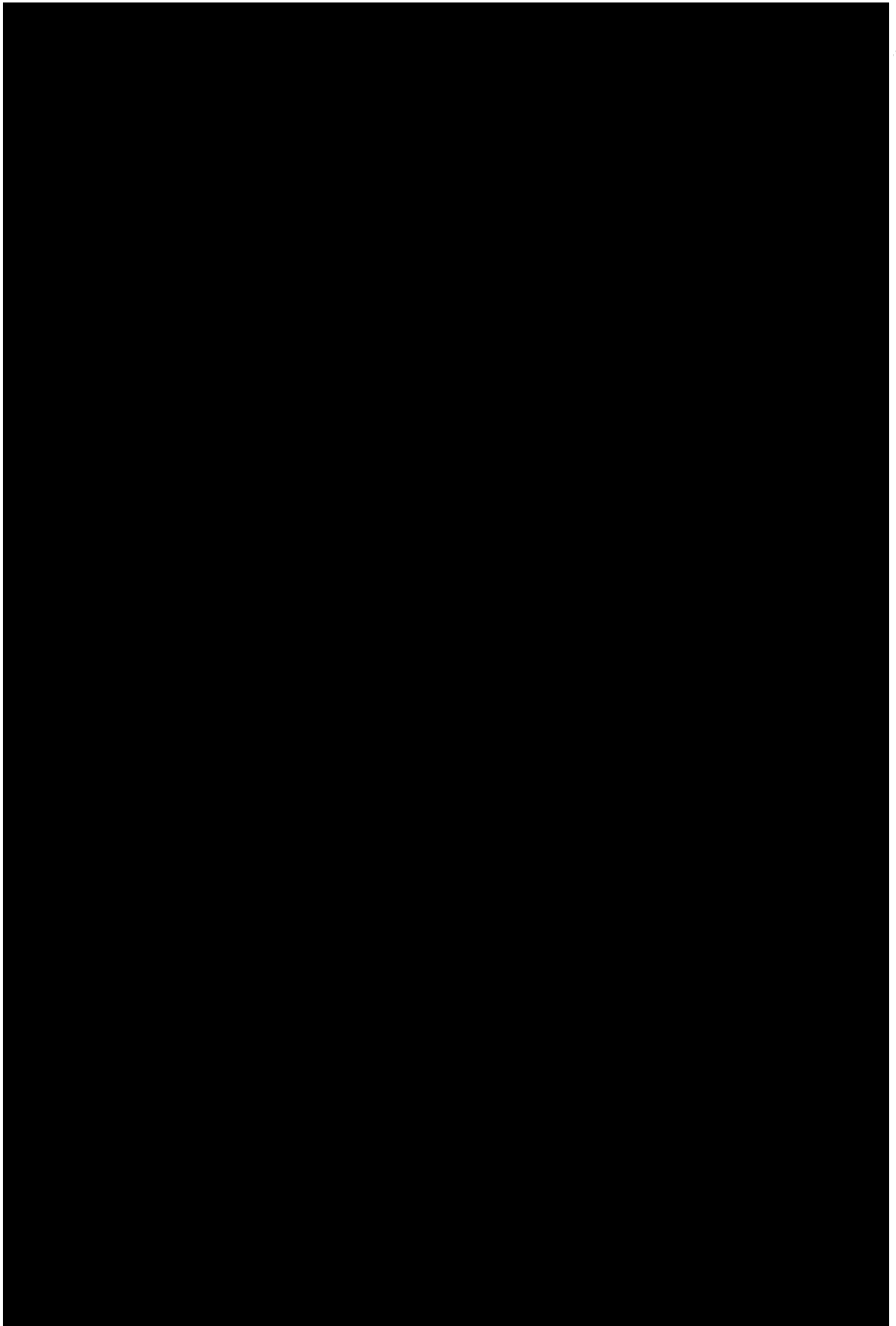
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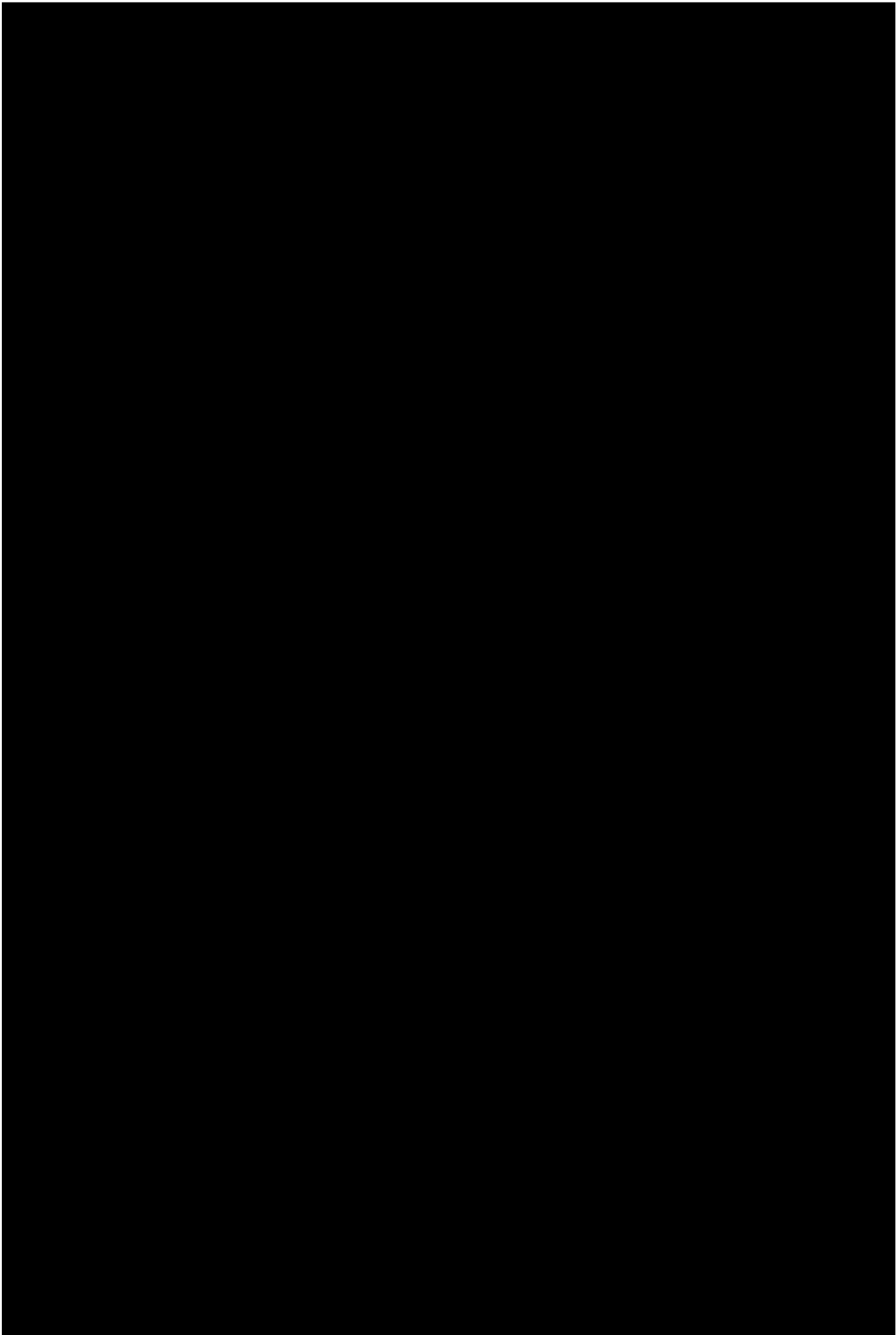


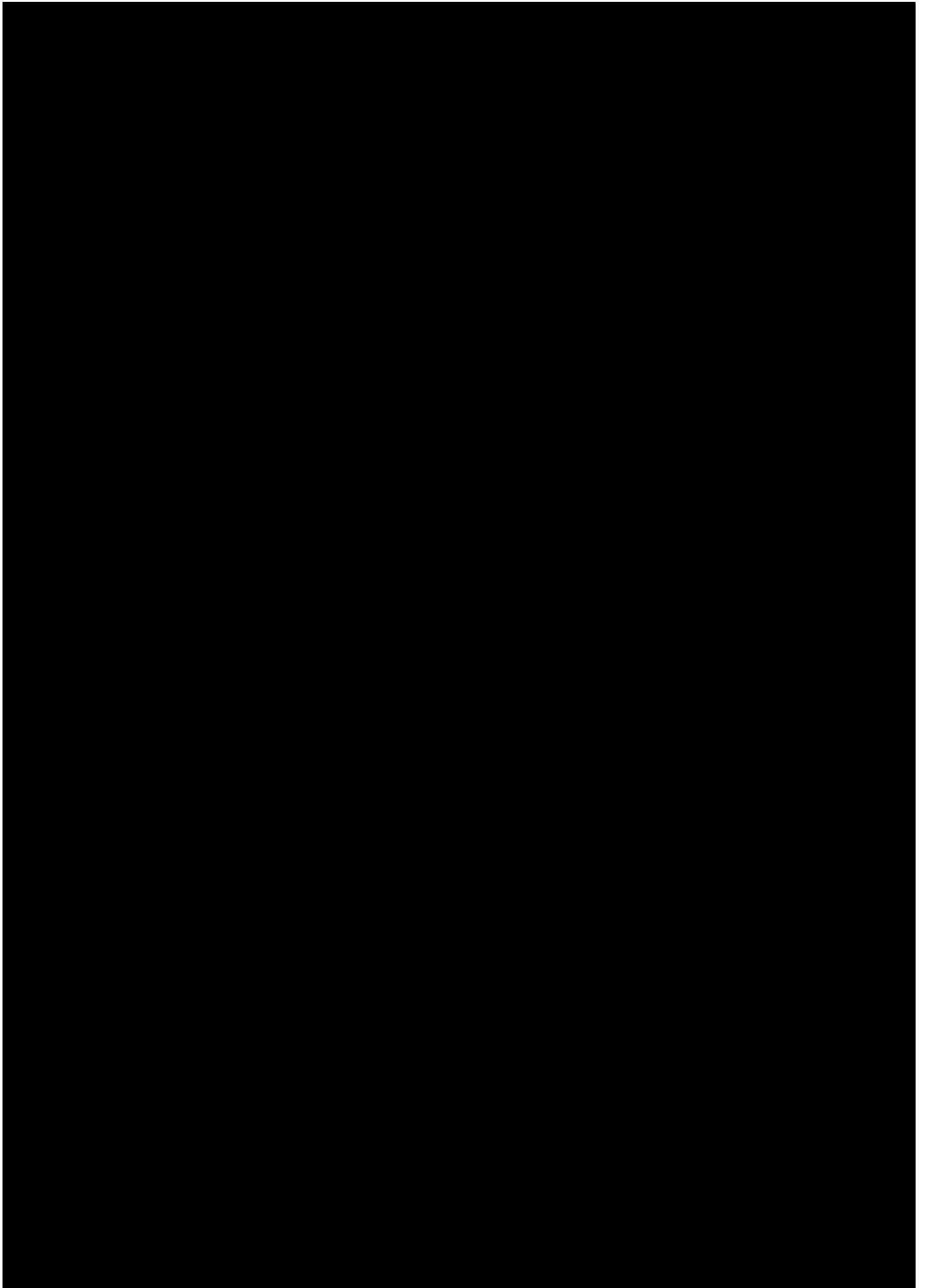


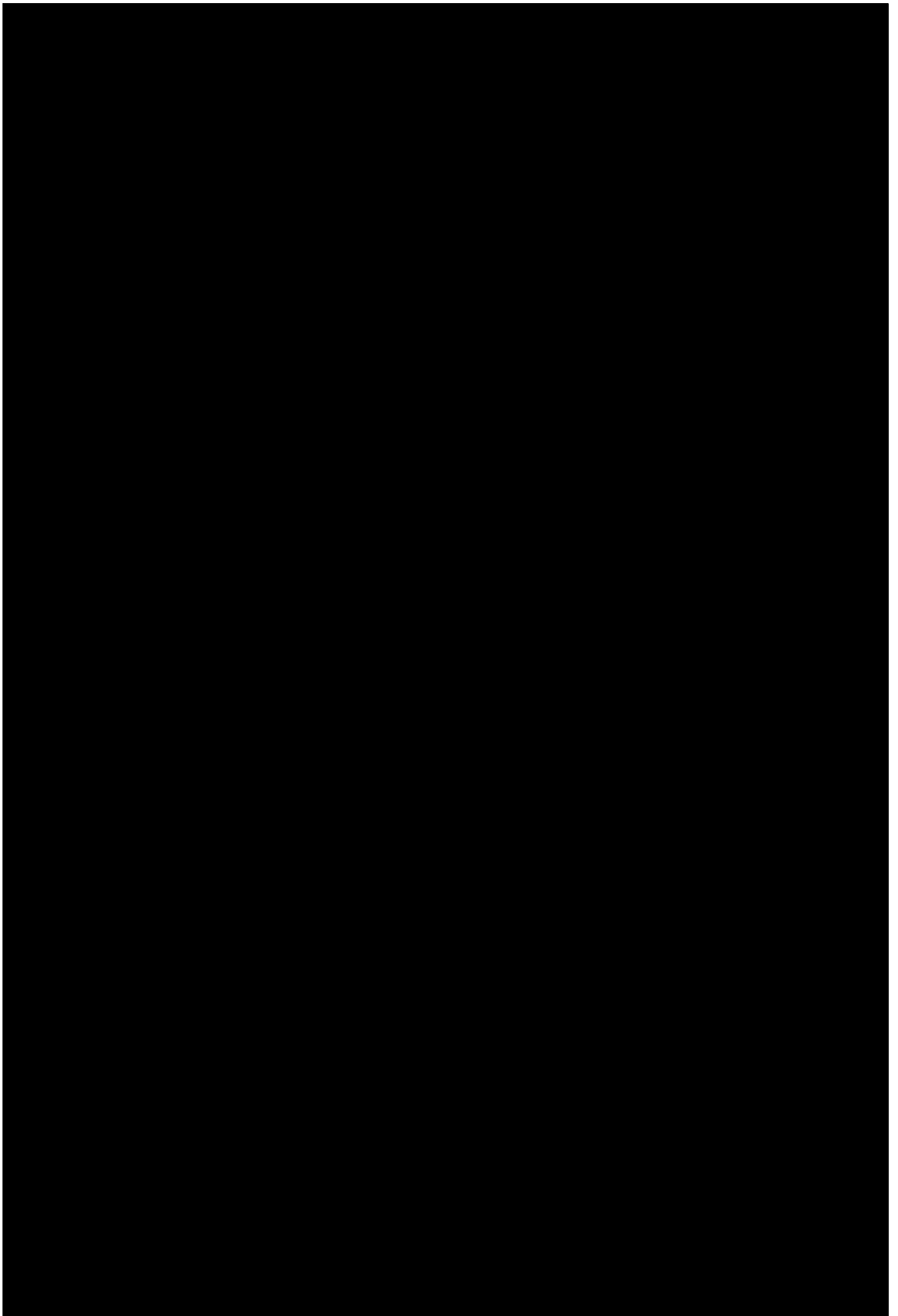


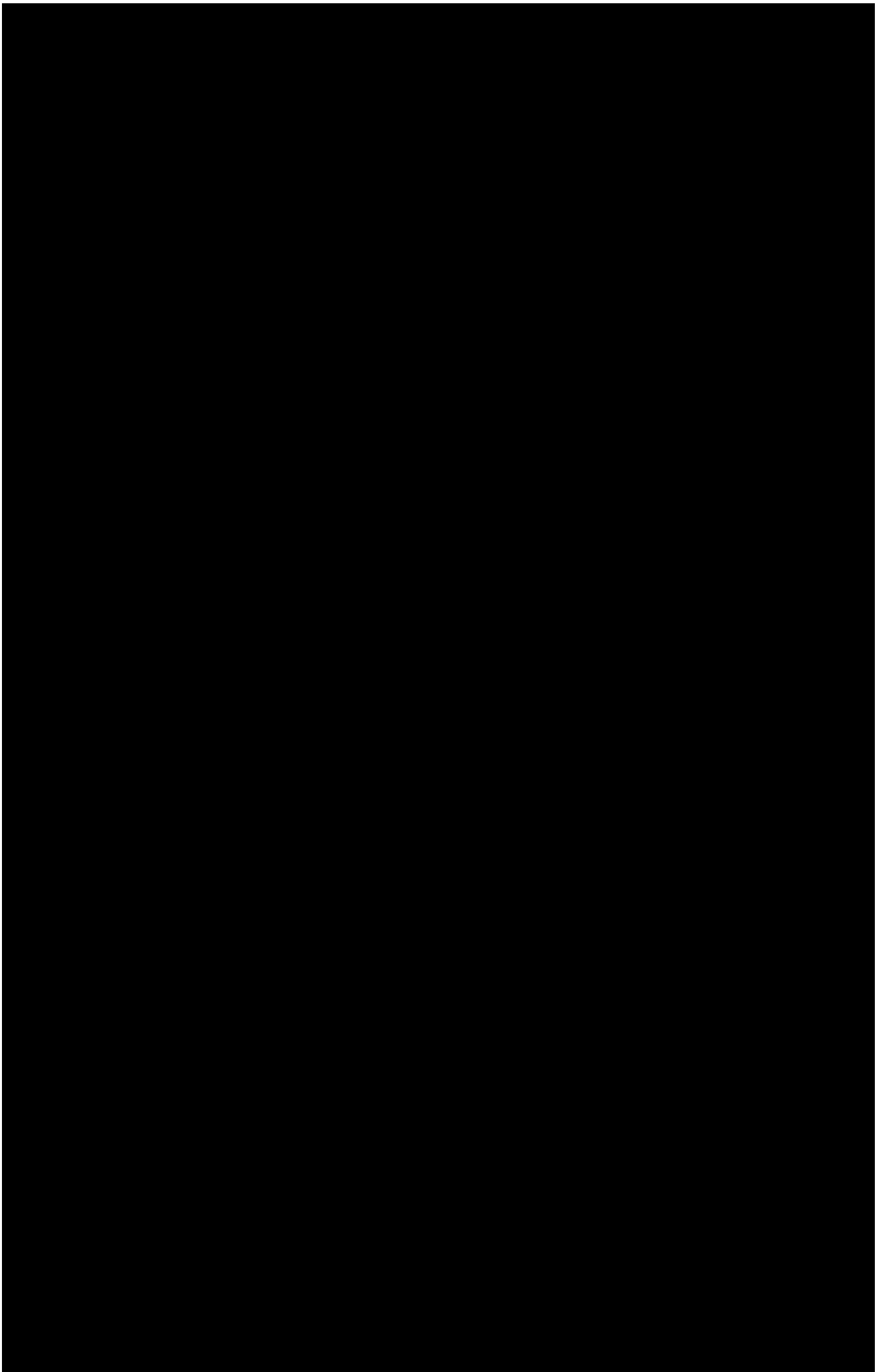


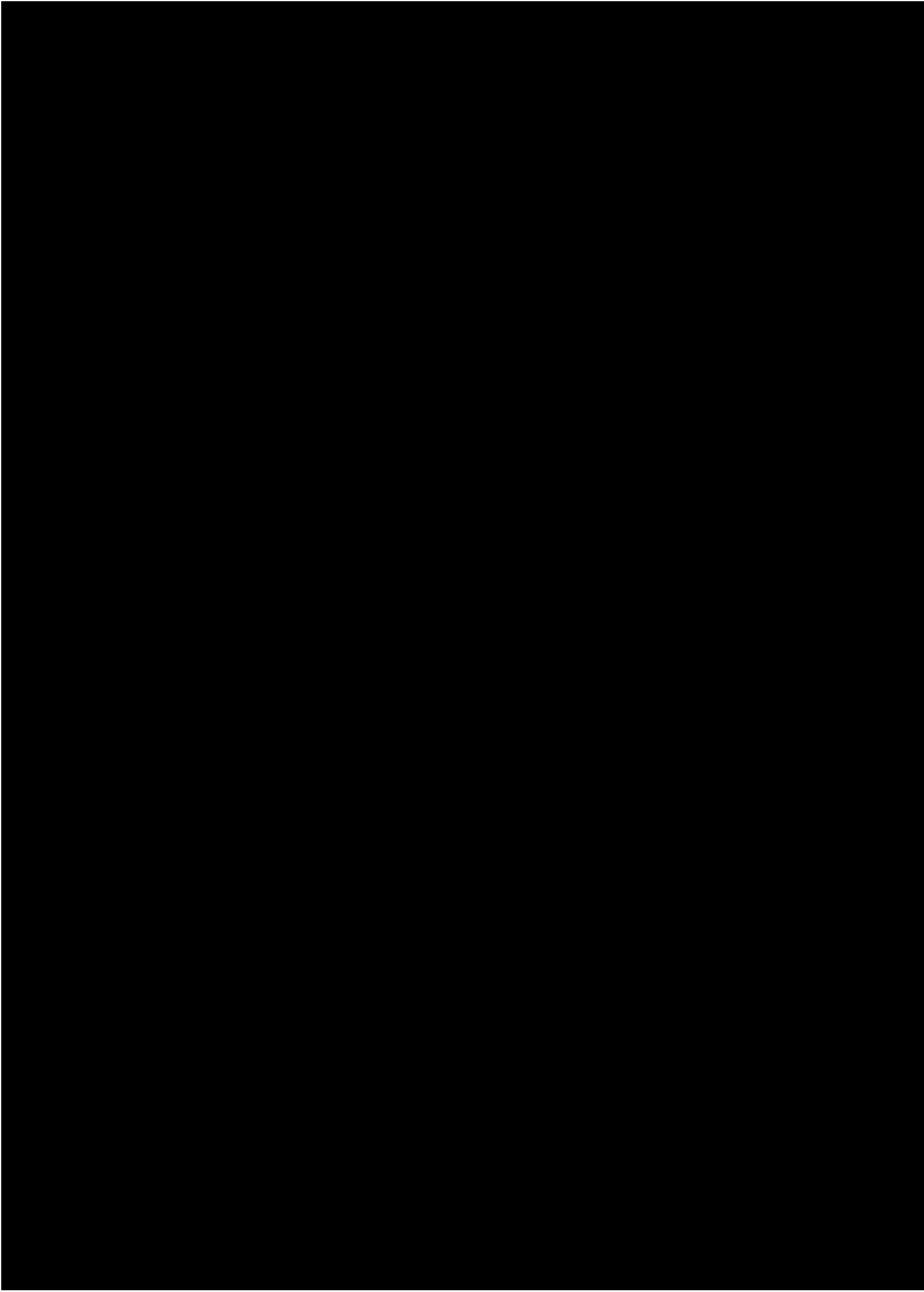


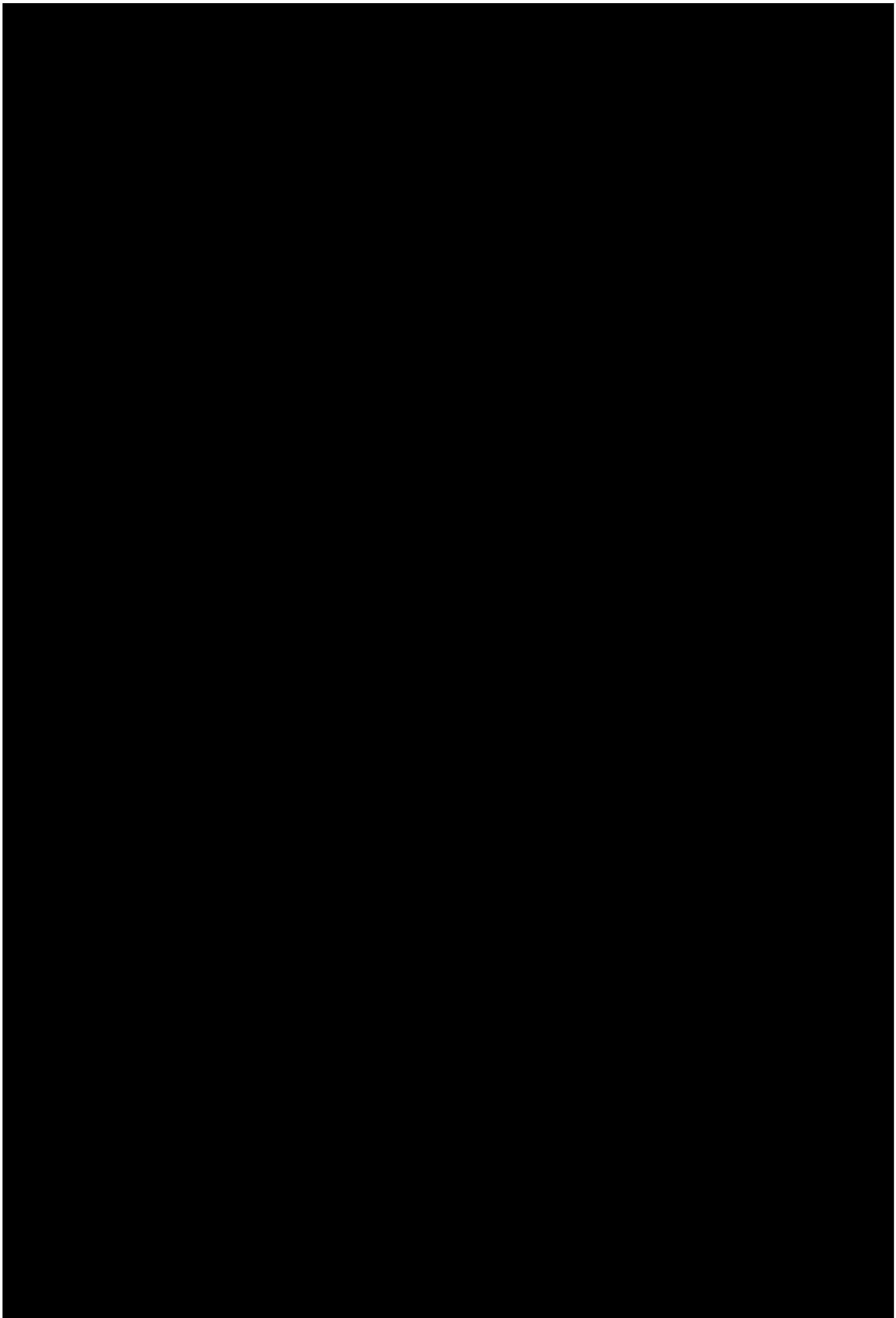




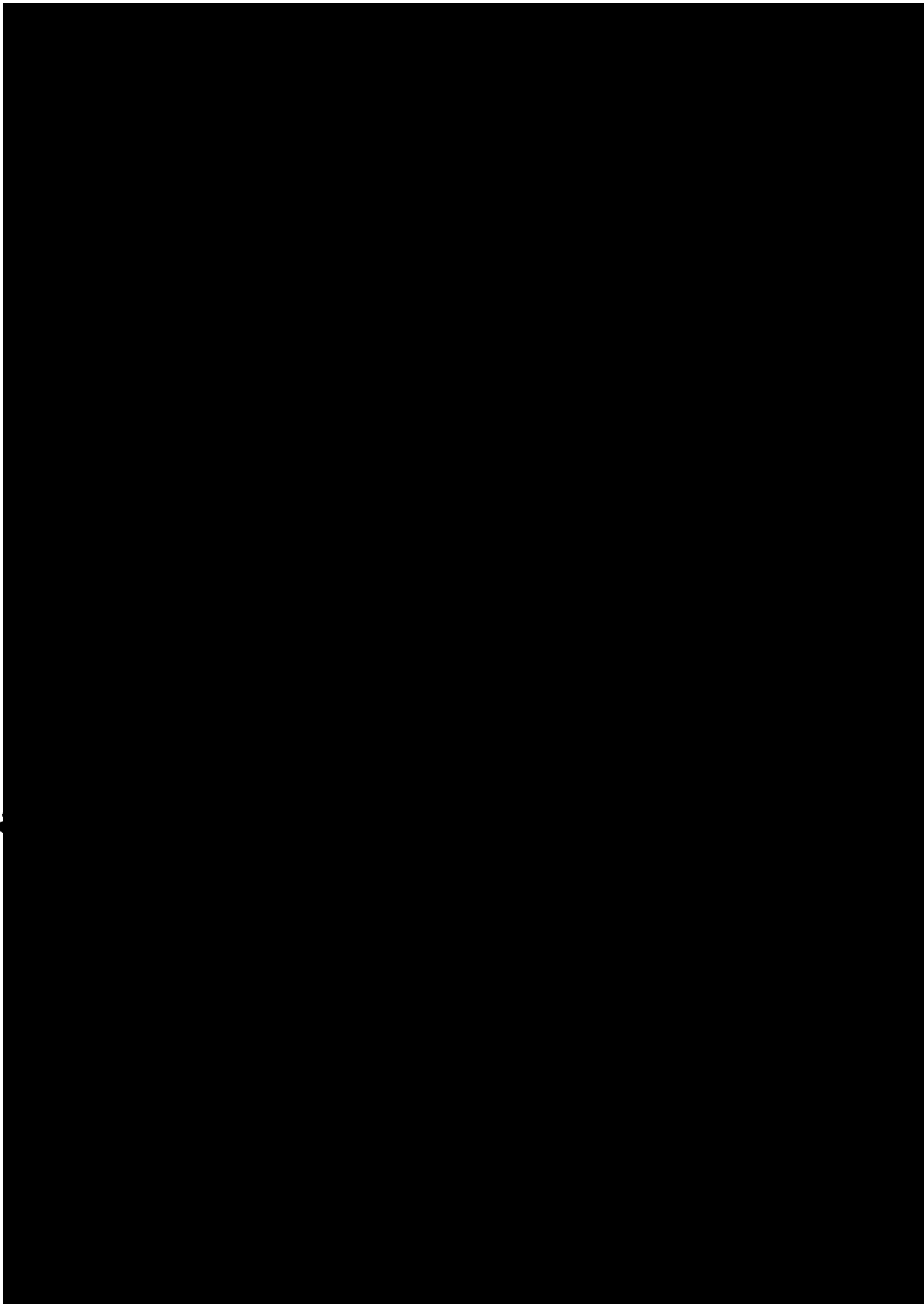








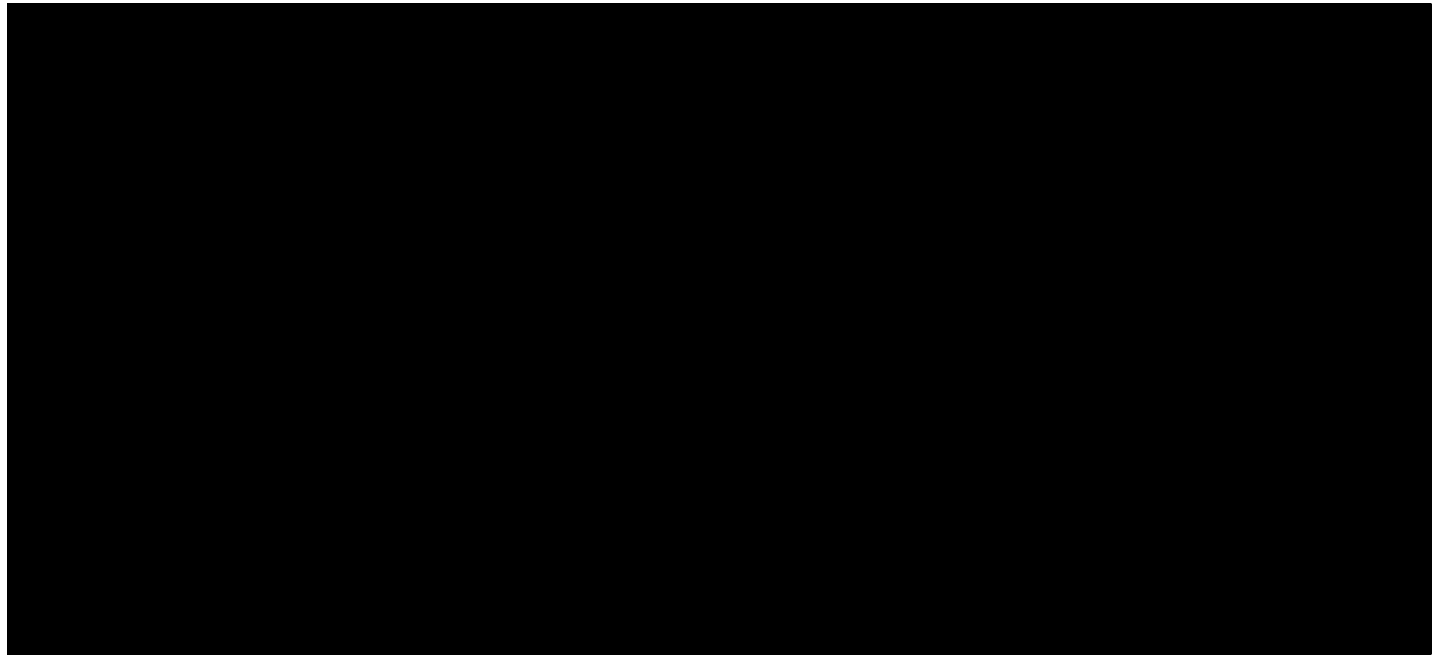




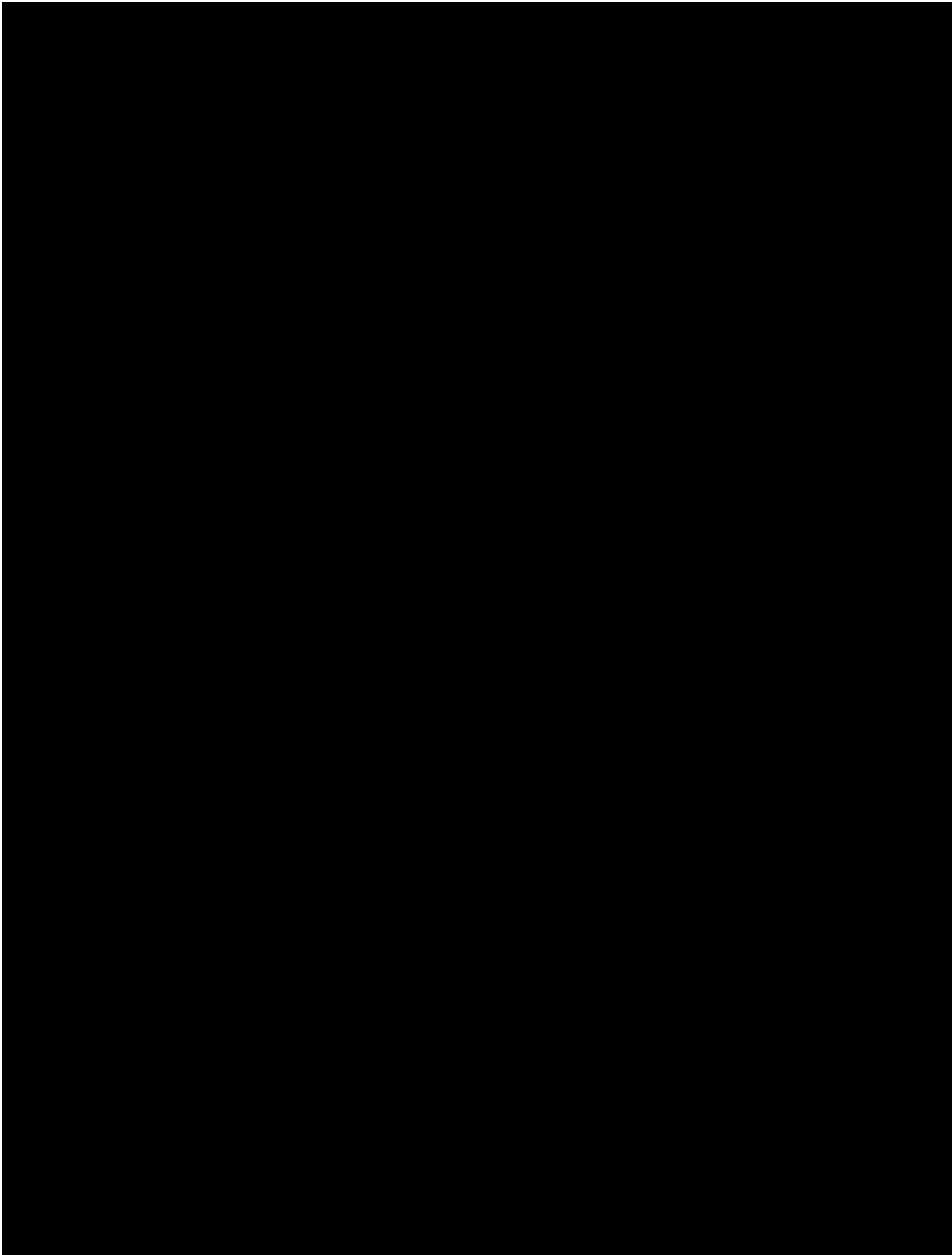












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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]  
**Sent:** Thursday, 3 March 2011 12:42 p.m.  
**To:** [redacted]  
**Subject:** Stoats and aerial 1080 - reduction rates

Dear [redacted]

I met you a while back when I was working at the Ministry for the Environment. I am now employed the Parliamentary Commissioner for the Environment and currently working on a report on pest management, including the use of 1080.

While the reduction of stoats due to secondary poisoning following aerial applications of 1080 is often talked about, I'm having a hard time finding any information on actual numbers or reduction rates.

Could you help me by letting me know how well it works to control stoats like that and share some references with me (or point me into the right direction)? I have been trying to get hold of [REDACTED] to no avail and I was going to talk to [REDACTED] but I'm not sure how the Christchurch office is getting on.

Thank you so much for your help. I look forward to hearing back from you.

Kind regards,

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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]  
**Sent:** Friday, 4 March 2011 1:45 p.m.  
**To:** [redacted]  
**Subject:** Thank you for the chat

Dear [redacted]

Thank you for taking the time and talking to me about 1080 and predator control more widely. I thought I email you so you will have all my contact details from my signature below.

I can't find the 1990s research on bird repellent on AHBs website but found in one of their Annual Reports that it was a research priority for 2009/10 - did they fund the trials you were involved with?

I'm looking forward to receive all sorts of information from you next week.

Kind regards  
[redacted]

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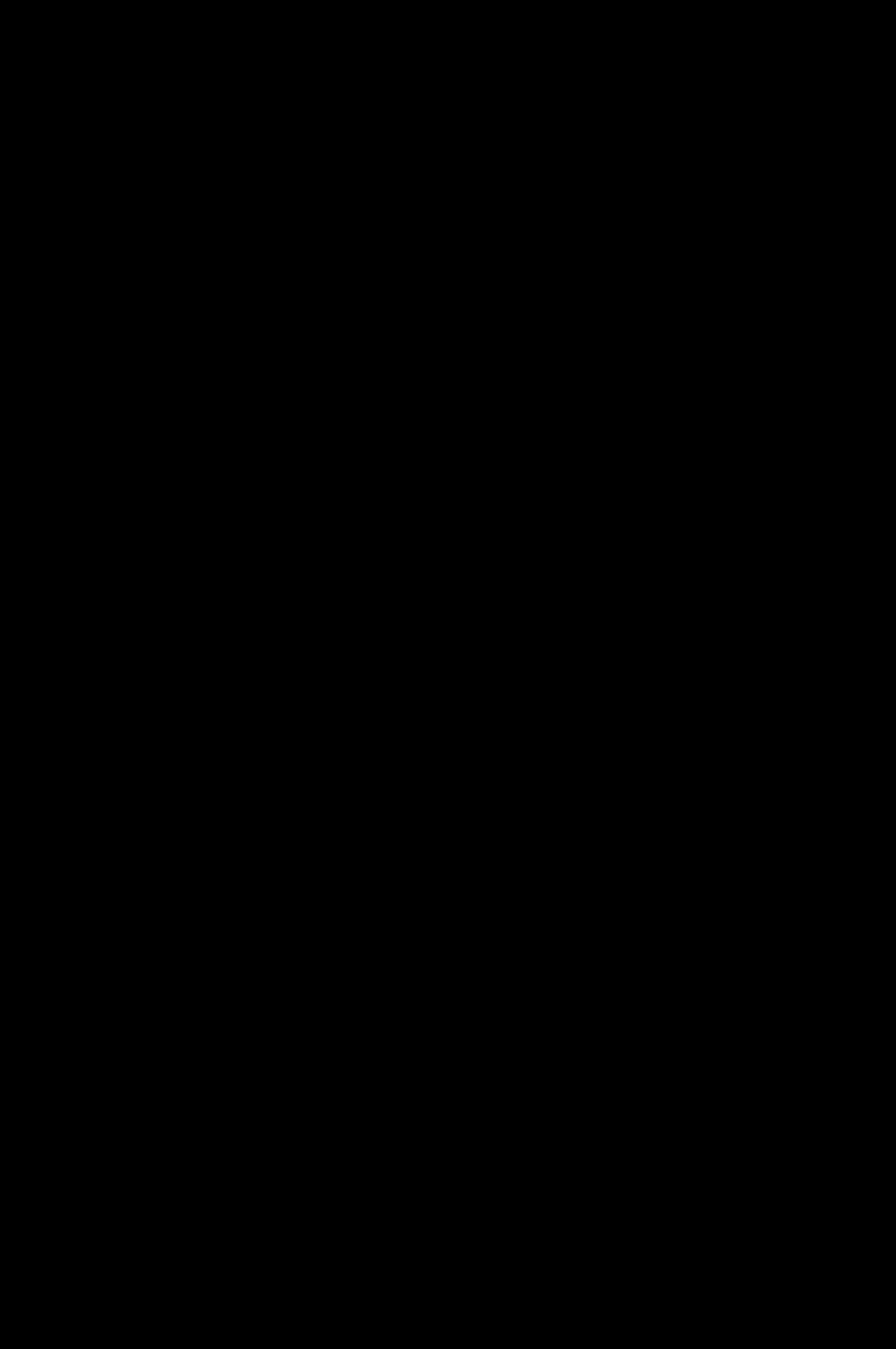
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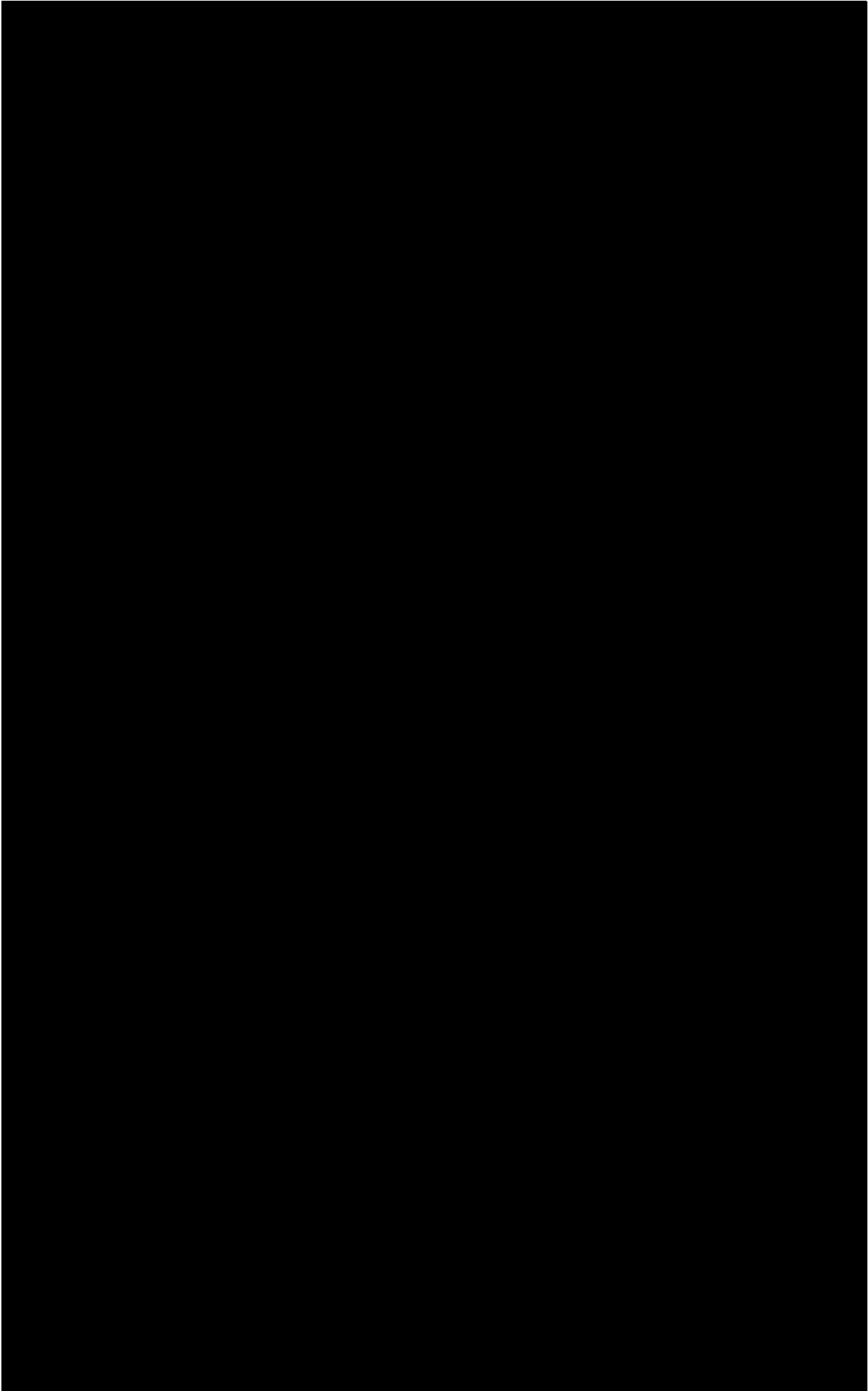
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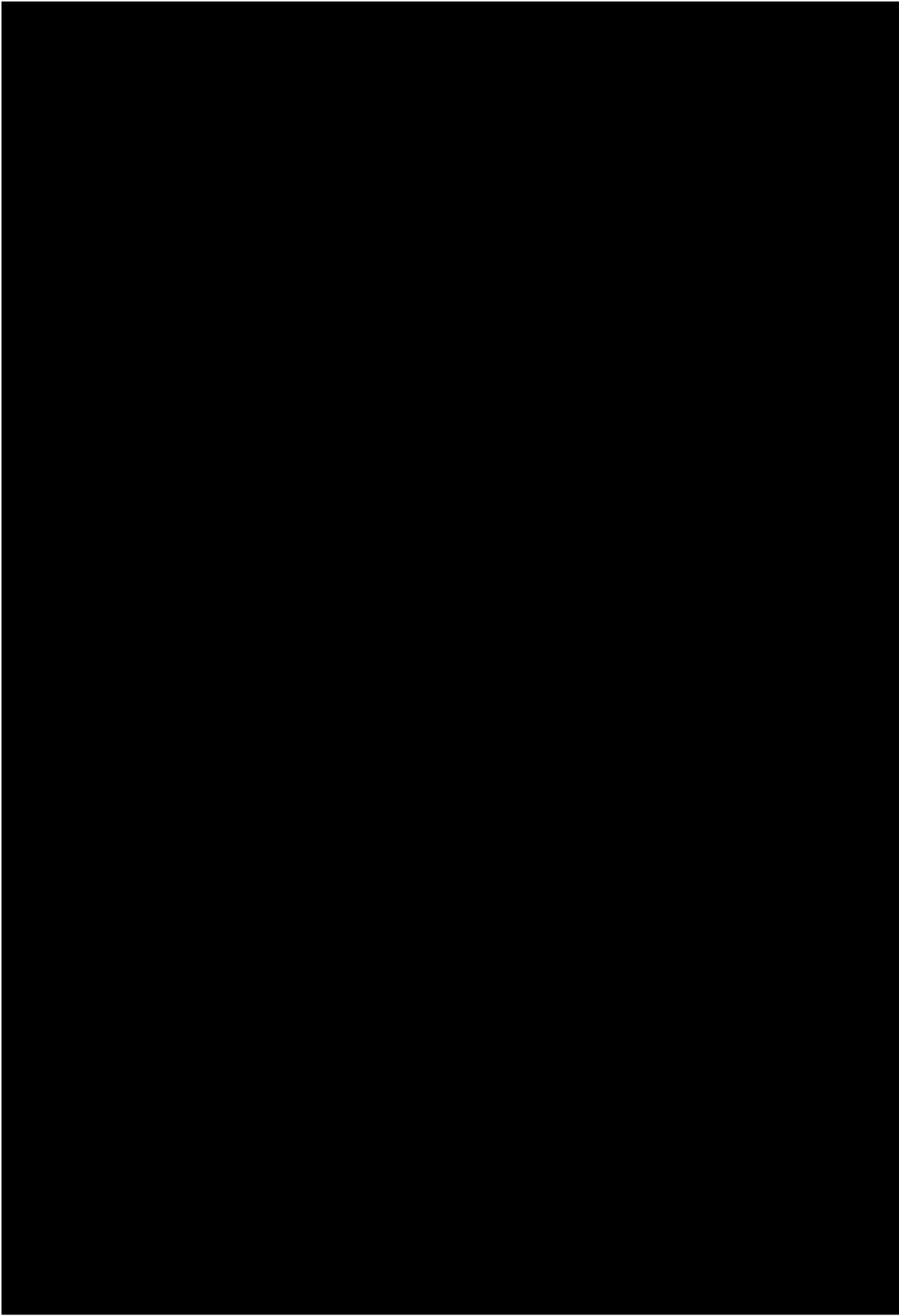
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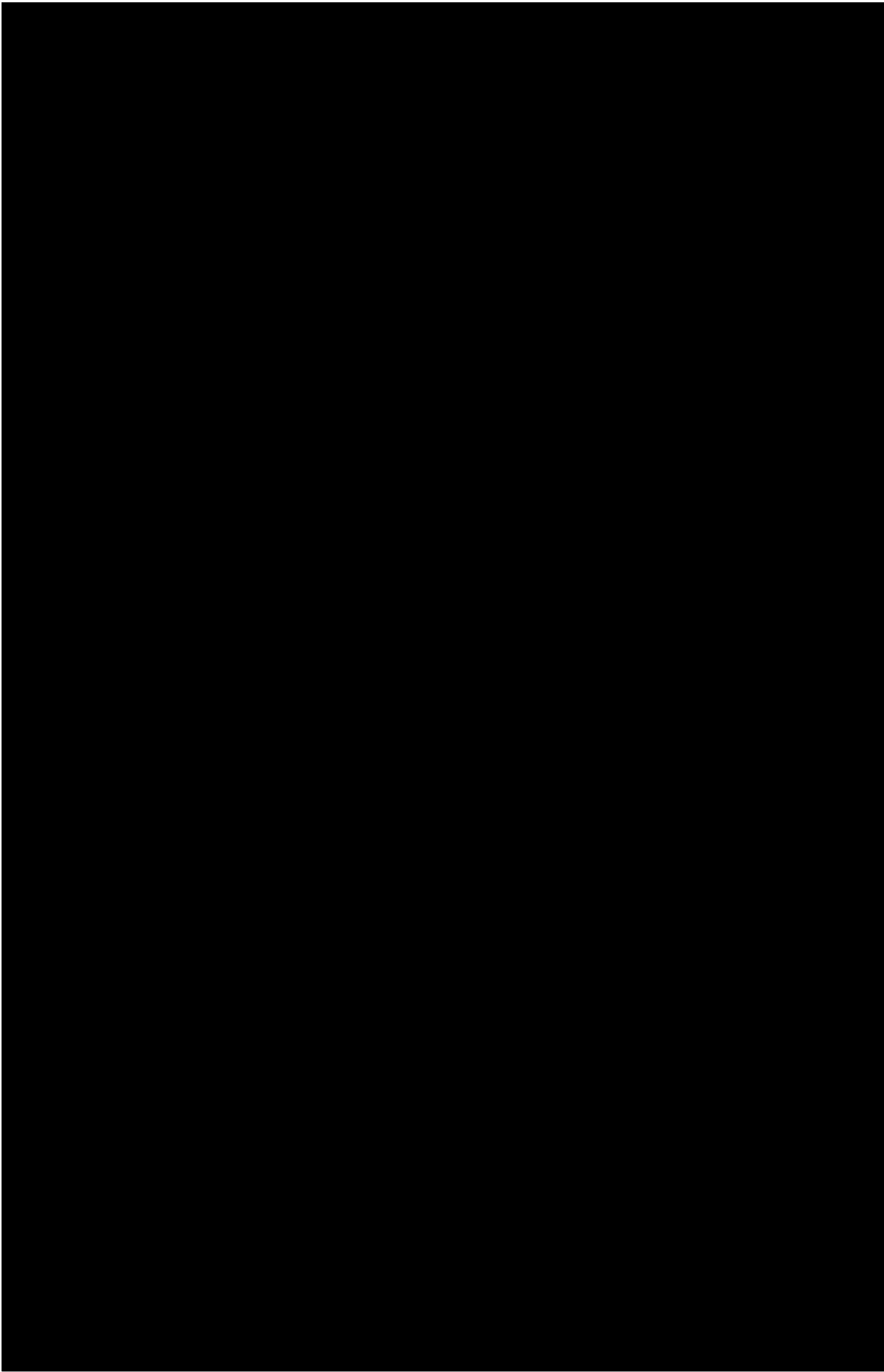


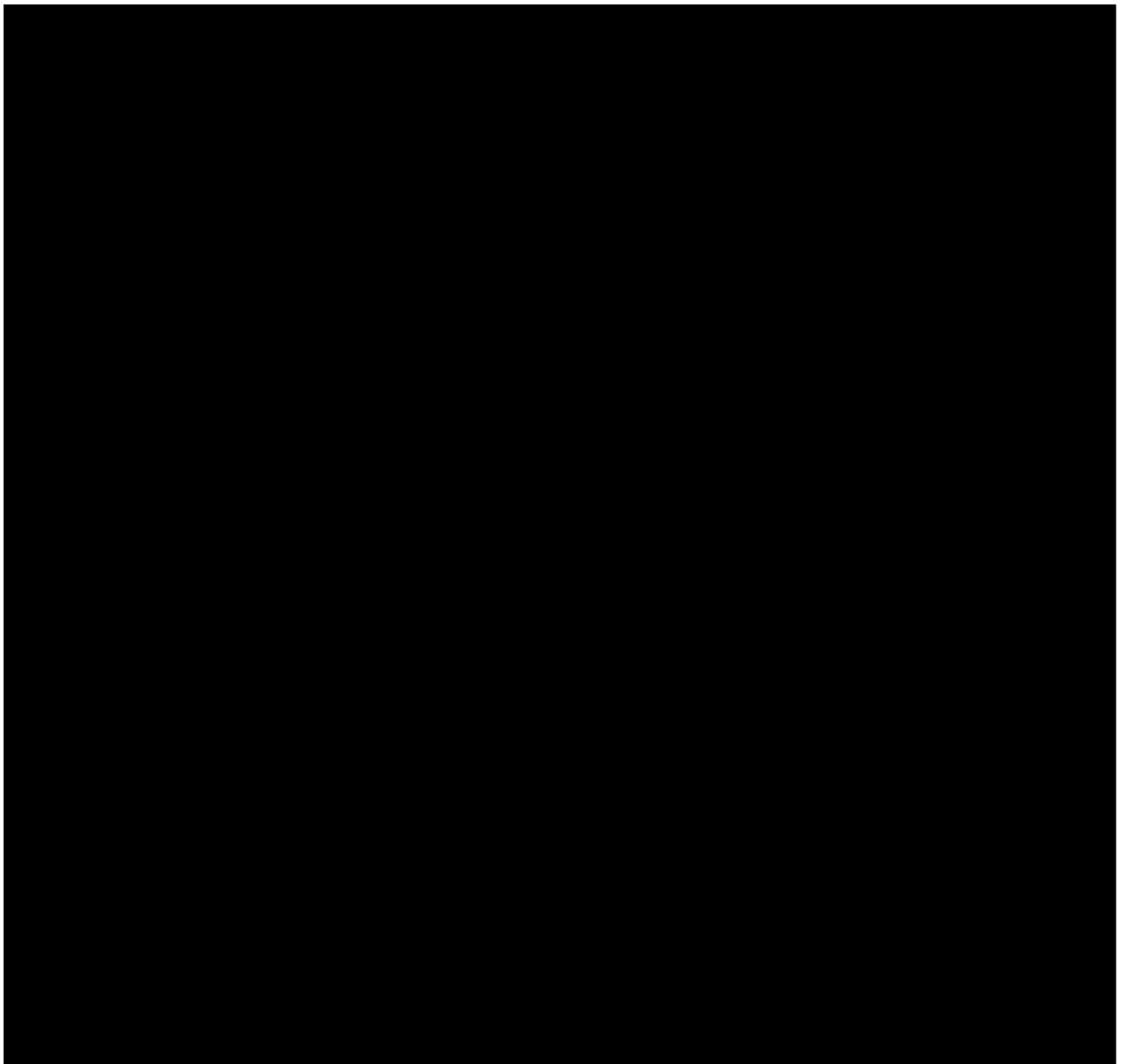


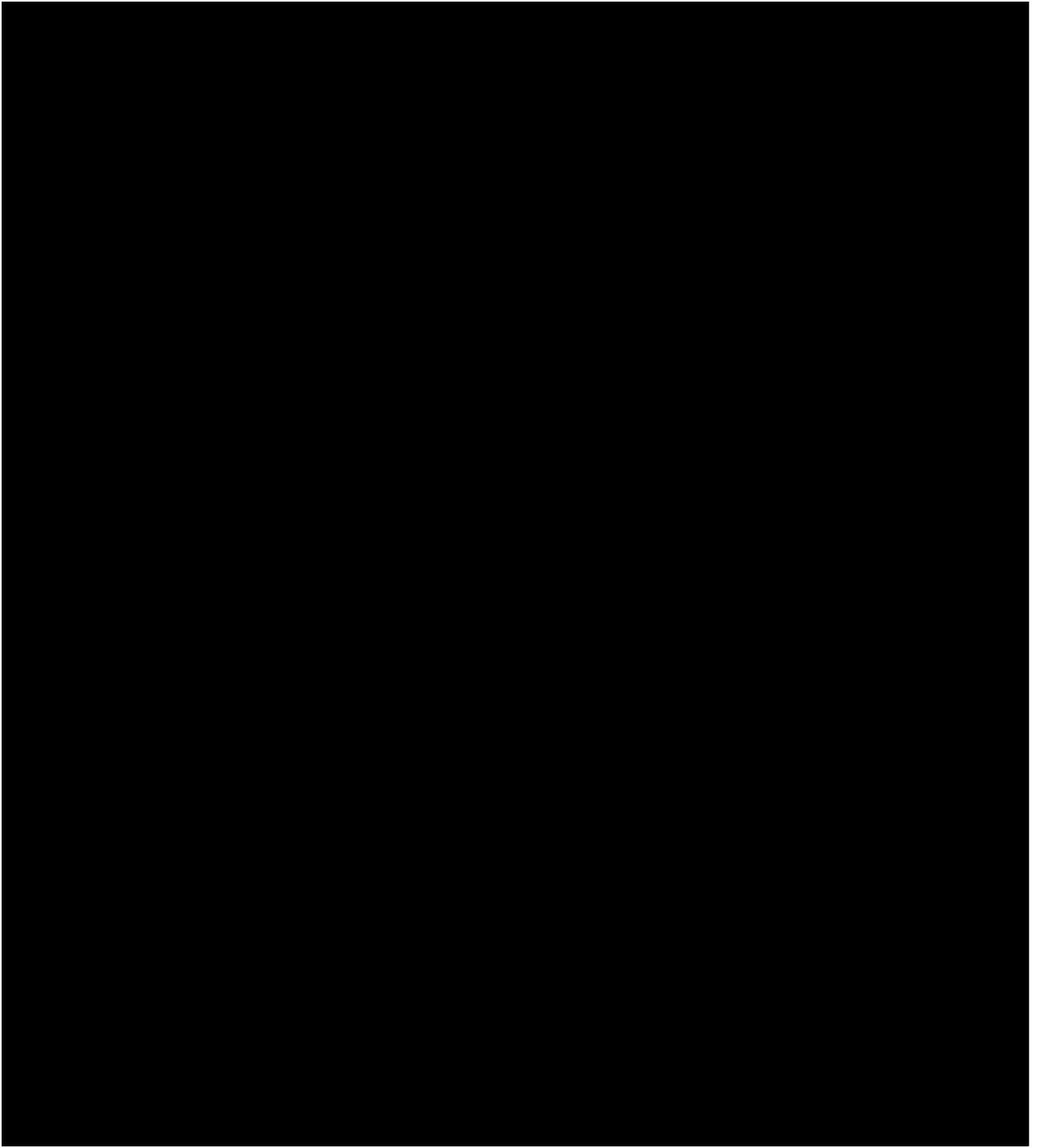














**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]  
**Sent:** Thursday, 10 March 2011 12:07 p.m.  
**To:** [redacted]  
**Cc:** [redacted]  
**Subject:** Pest management - strategic tools at landscape scales

Dear [redacted]

Below are my rough notes that I was typing while we chatted. (Further the points [redacted] had raised during my conversation with him)

All points you raised were very useful. So, thank you so much for returning my call and taking the time to share this information with me.

Regards,  
[redacted]

### **SIPRAG (South Island Predator Response Advisory Group)**

Started by [redacted] – with about \$2.5 million./per annum budget, since 2010

All sites (masting systems) identified ranked for South Island based on values and conservation outcomes. Values focus on possums (e.g. mistletoe and overall foliage condition) or other values snails, kaka small forest birds.

Actually they're not all masting sites necessarily, though most of them are.. The group of sites that are included in the SIPRAG system result from historical and bureaucratic accidents - they're all the sites which were funded from centrally controlled funds - as opposed to being managed from the conservancies. The Department still has some 1080 operations in the South Island that are not included in the SIPRAG system, but because the same group of people are involved in making decisions about the SIPRAG operations and the locally driven operations, the two sets are sort of merging.

Operation Arc is now part SIPRAG system and management has been expanded.

Funding/choosing sites: General possum control on sites when no masting and then when masting funding directed toward rats/stoats sensitive sites. Enough money to respond this year.

Enough money to continue wider possum control and respond to masting events but possum control might be bumped a year but overall frequency would stay about the same .

Number of sites are inherited but not newly classified through NHMS so it might change – and there might not be enough funding.

AHB doesn't work like this but they are interested in working in. for them to get timing right they have to shuffle their cycles around. It's hard for them over large areas and relying on contractors.

To keep birds in the backcountry we need large scale control with masting cycles at regular intervals.

### **Cost/effort at landscape scales - cost-effectiveness**

One bait station per hectare for rats with brodifacoum and 1080 – pre-feed in the station to get the social interactions – training to trust the bait. 6-7 times year during rat season (Sep-June).

Costs: Up to \$80/ha while 1080 would be less than \$20/ha

Expense of initial set up of bait stations not included.

So 1080 can be done once over 4 x times larger area. This increases the buffer using natural features like rivers and lakes or mountain tops by doing it at the landscape/catchment scale.

So you spend the same dollars for four times larger and more resilient against re-invasion.

Example 1: Catlins

800 ha with bait station for rats fill at least 6 times during rat seasons. Then bait has to be removed at the end to not go stale to un-train rats.

Example 2: Eglington valley

Community wants to do ground on valley floor for same cost as 1080 for mohua and bats – but by not doing it at catchment scale loose out on expansion potential and other species like kaka, robins, parakeets etc. that would benefit from larger areas.

Mohua used to live in the valley but only remain on valley floor.

### **Pushing the frontier**

Operation arc started off knowing rats and stoats needed to be killed – started with traps, then baits stations nothing worked or was too expensive. Ended up with 1080 being the tool of choice to control rats.

That was new. Josh and Graeme, think it needs to be expanded but elsewhere possum operations reduced because of public pressure. So they are feeling a bit at odds with public perception.

Multipest control has been improved with less bait but larger areas at higher frequency go against public pressure.

### **1080 the toxin**

In terms in specifications of a suitable toxin it ticks all the boxes.

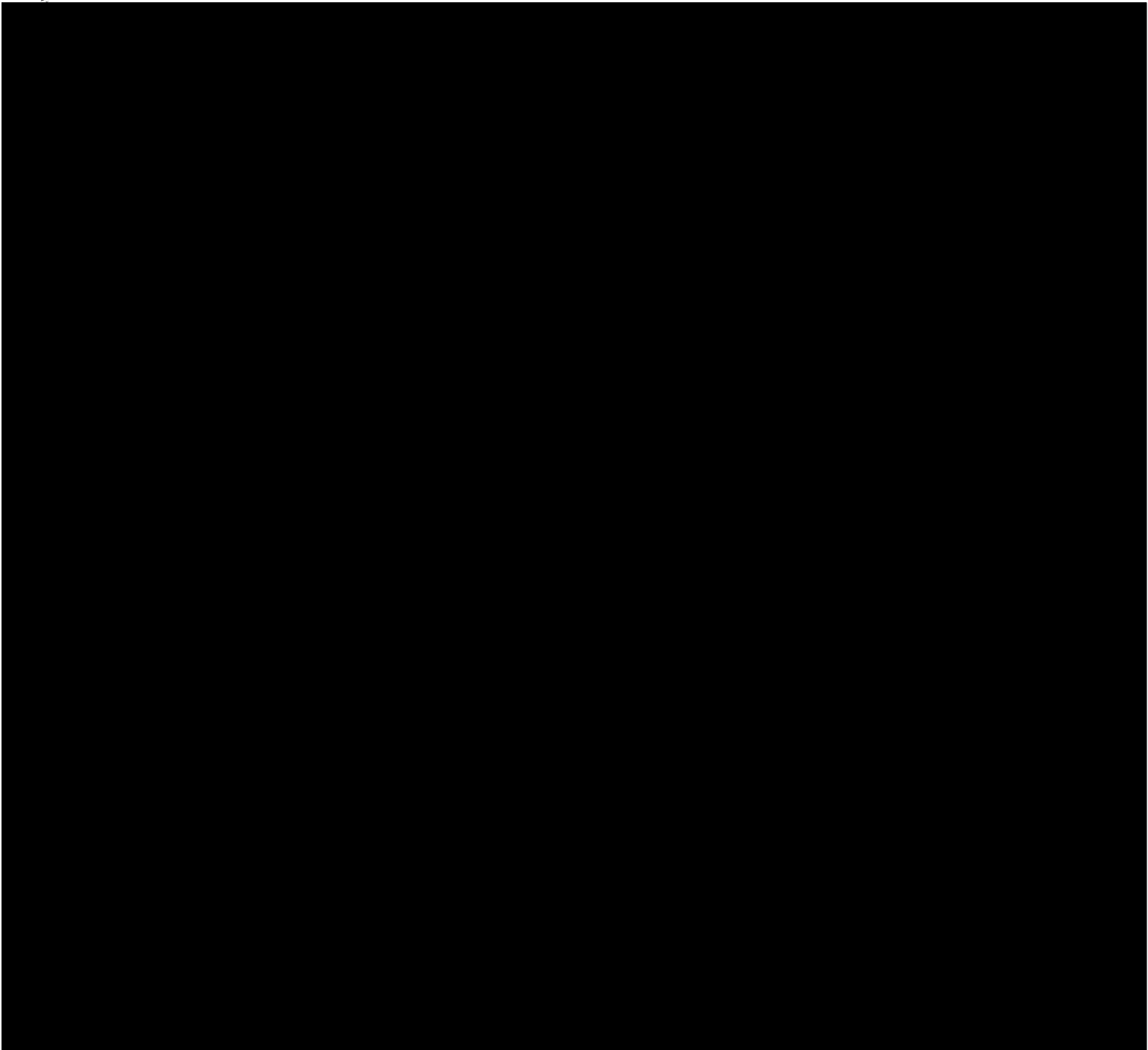
Humaneness: Consider net suffering – pain of birds during predation versus pain of possums/rats

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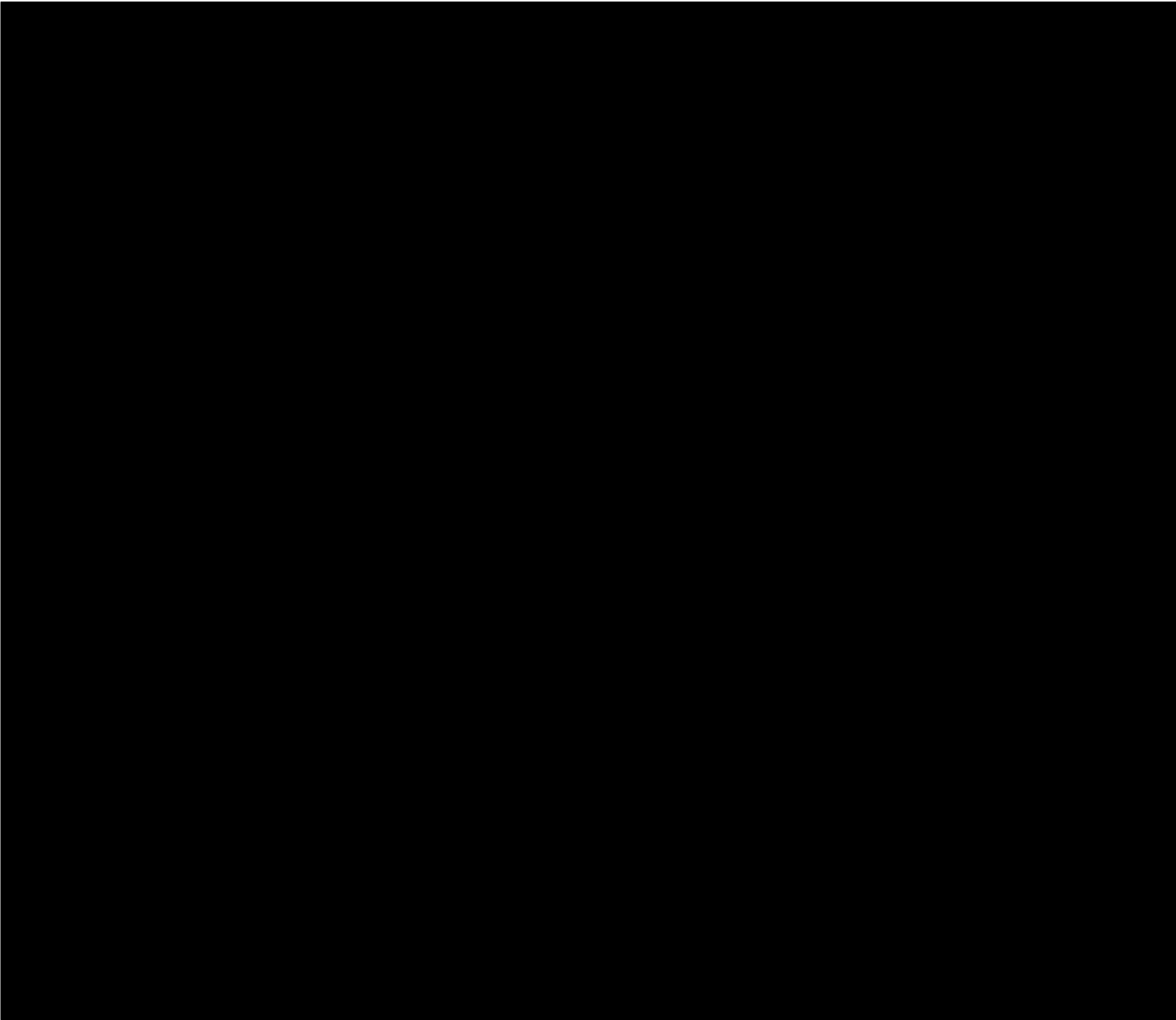










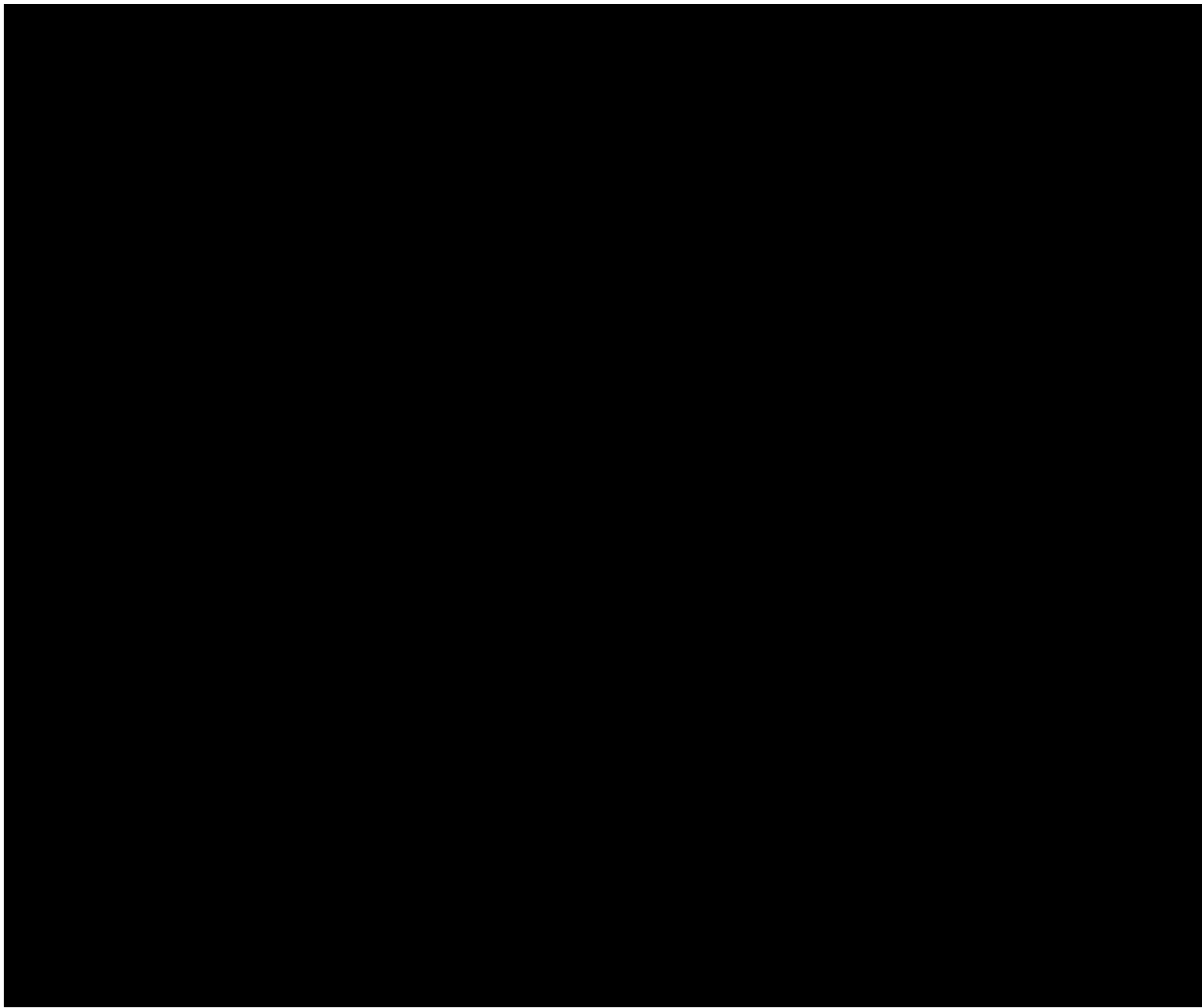


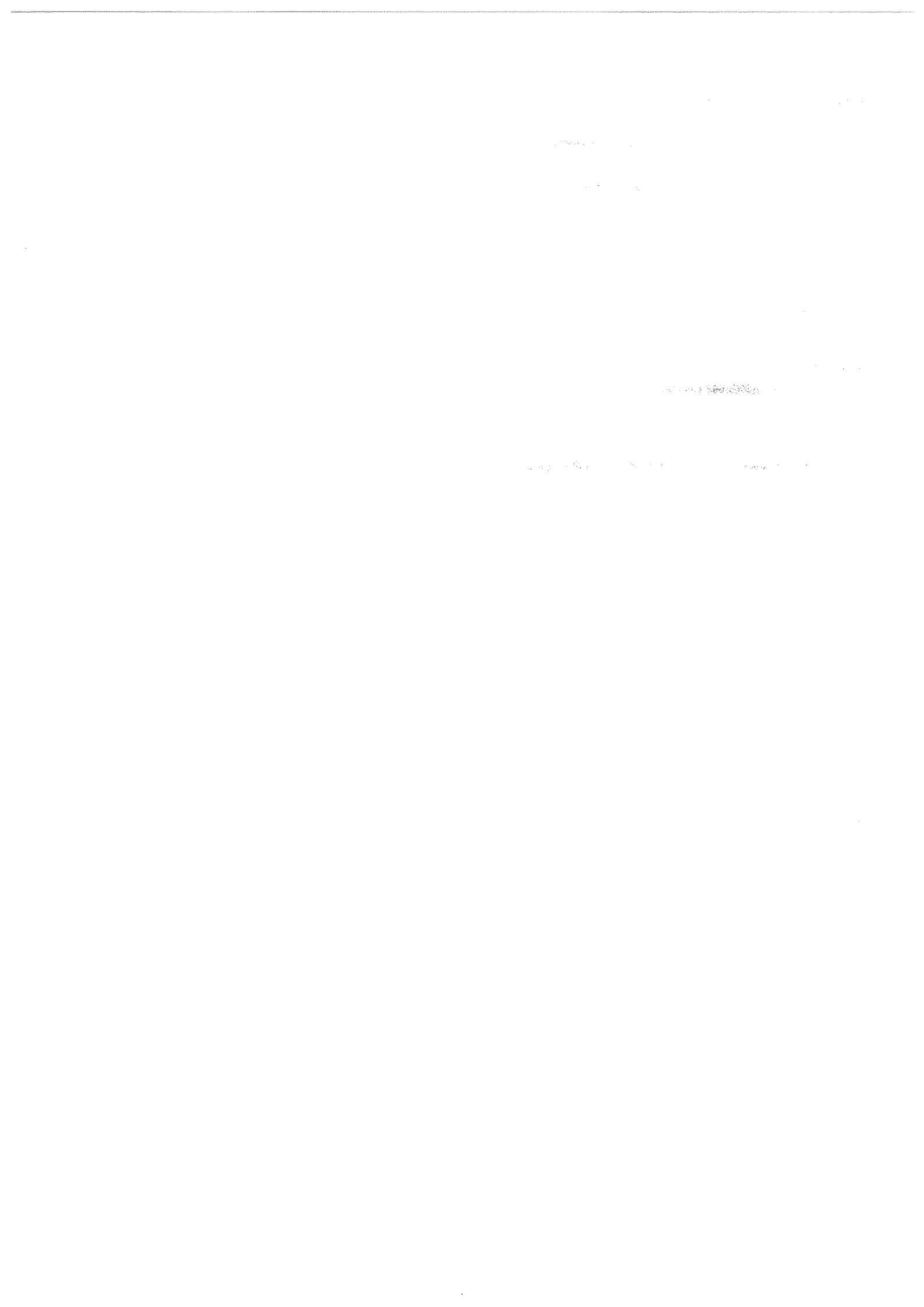












**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Tuesday, 15 March 2011 9:37 a.m.

**To:** [redacted]

**Subject:** RE: re 1080 report

Hi [redacted]

Thank you for your enquiry.

We did have a tentative date for tabling the report in the House on the 14th April. However a range of factors, including the Christchurch earthquake, have delayed the report.

At this stage we are aiming to release the report in early May, and will certainly have the report out this financial year. We still plan to send a draft of the report to the Department for content review before it is finalised. I expect this will happen in the first part of April, but should have clearer picture on that in the next week and I will let you know. I was planning to send the draft to you to coordinate the Department's review: could you please advise me if this is appropriate or if there is someone else I should send it to instead.

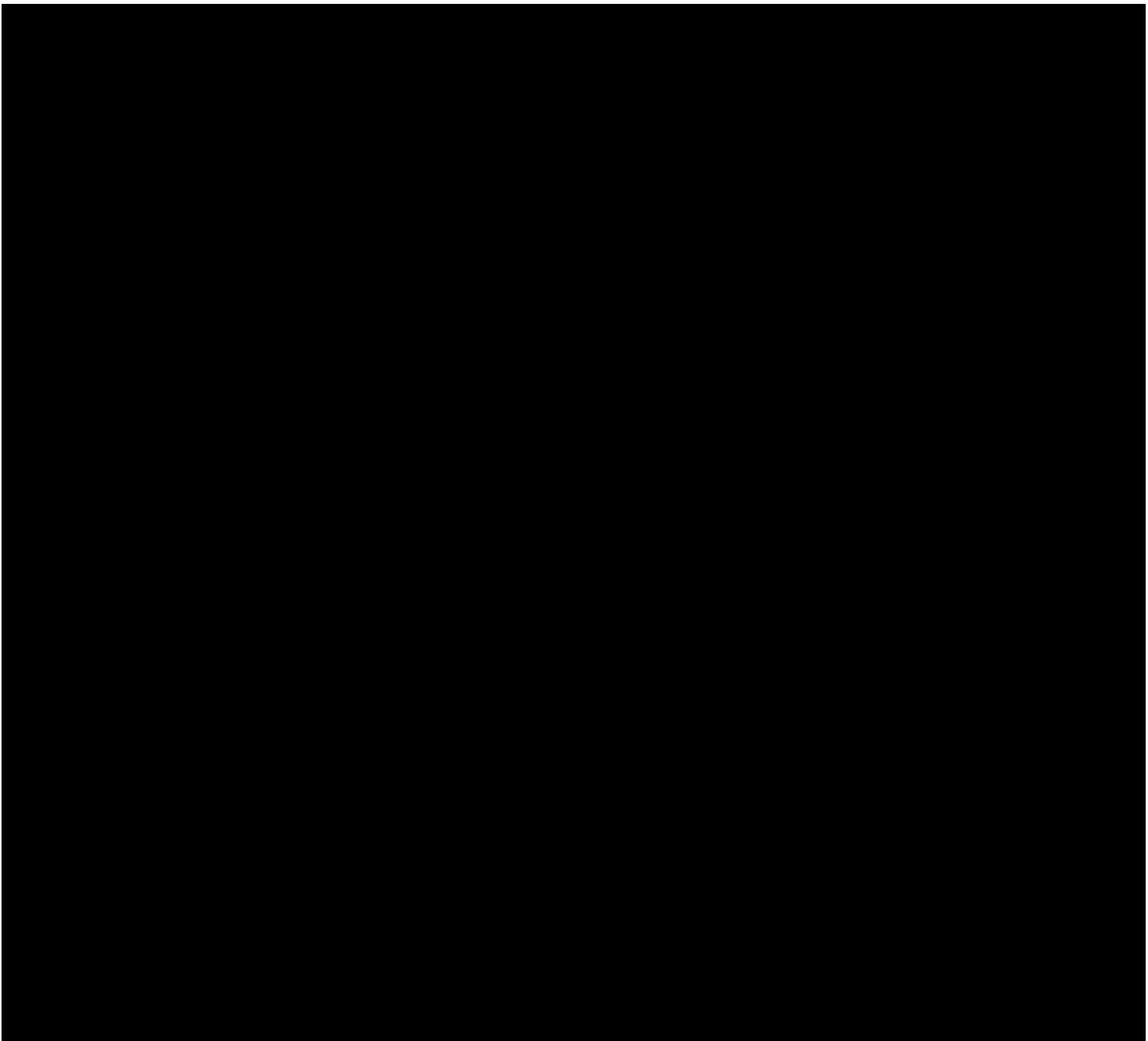
In addition, once the draft report has been reviewed and finalised, the Commissioner will offer the Department a briefing on the report and its recommendations before it is released.

Kind regards, and I look forward to your reply.

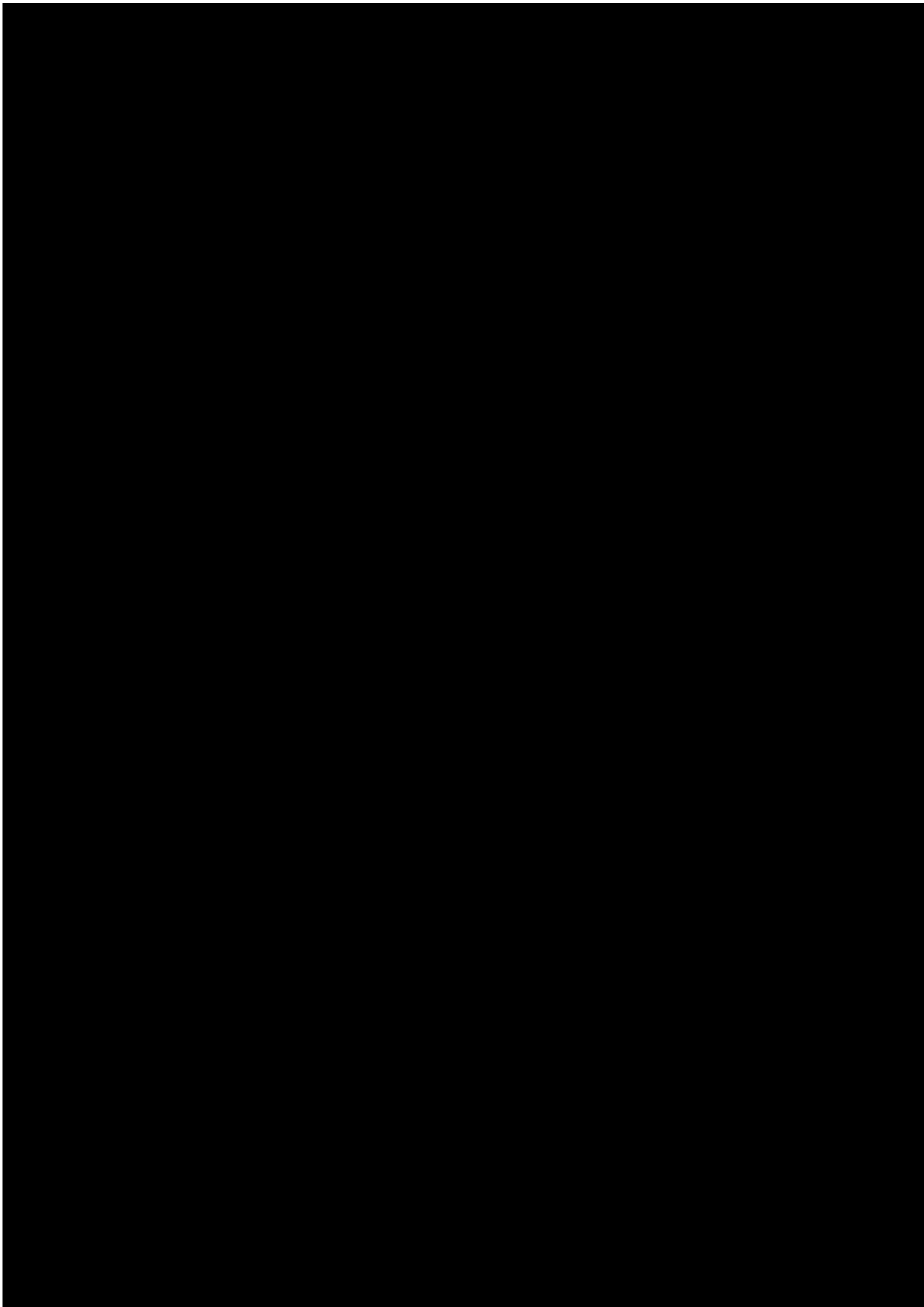
[redacted]

[redacted]

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Page 1 of 1







**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]

**Sent:** Friday, 15 April 2011 9:51 a.m.

**To:** [REDACTED]

**Subject:** Ground control question

Hi [REDACTED]

May I please ask you a quick question?

Just in general - what are the toxins most commonly used in bait stations in forests managed by DOC? 1080, brodifacoum, diphacinone, cyanide? Are there common combinations?

Regards

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**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]  
**Sent:** Thursday, 21 April 2011 2:25 p.m.  
**To:** [REDACTED]  
**Subject:** RE: Kea research

Hi [REDACTED]

Thanks for the draft papers; they contained all the detail I need. I have drafted two paragraphs, one that talks about kea deaths, and a second in a later section that deals with controls on use of 1080 to manage risks (see below - feel free to comment if you think they are wide of the mark). I will need to cite the information; do you have a preference (e.g. pers comm., unpublished data, or is there a timeline of publication for the drafts that means they could be cited as 'in press')?

Thanks again  
Cheers  
[REDACTED]

Although it is now infrequent, individual aerial 1080 operations can still have major impacts on birds. For example, seven out of 17 monitored kea died following 1080 poisoning in May 2008 in the forests in South Westland. Six of these deaths were due to kea eating the 1080 baits directly, while the seventh bird could not be recovered but was considered likely to have been killed by 1080.

Research is currently underway to develop protocols and methods to reduce the risks of 1080 operations to native species. For example, protocols to protect keas during aerial 1080 operations are being developed. These protocols include restrictions on the type of bait that can be applied, how much pre-feed is used, and what sorts of kea habitats aerial 1080 can be applied over (e.g. no aerial 1080 used above the treeline where kea are present).

[REDACTED]

[REDACTED]

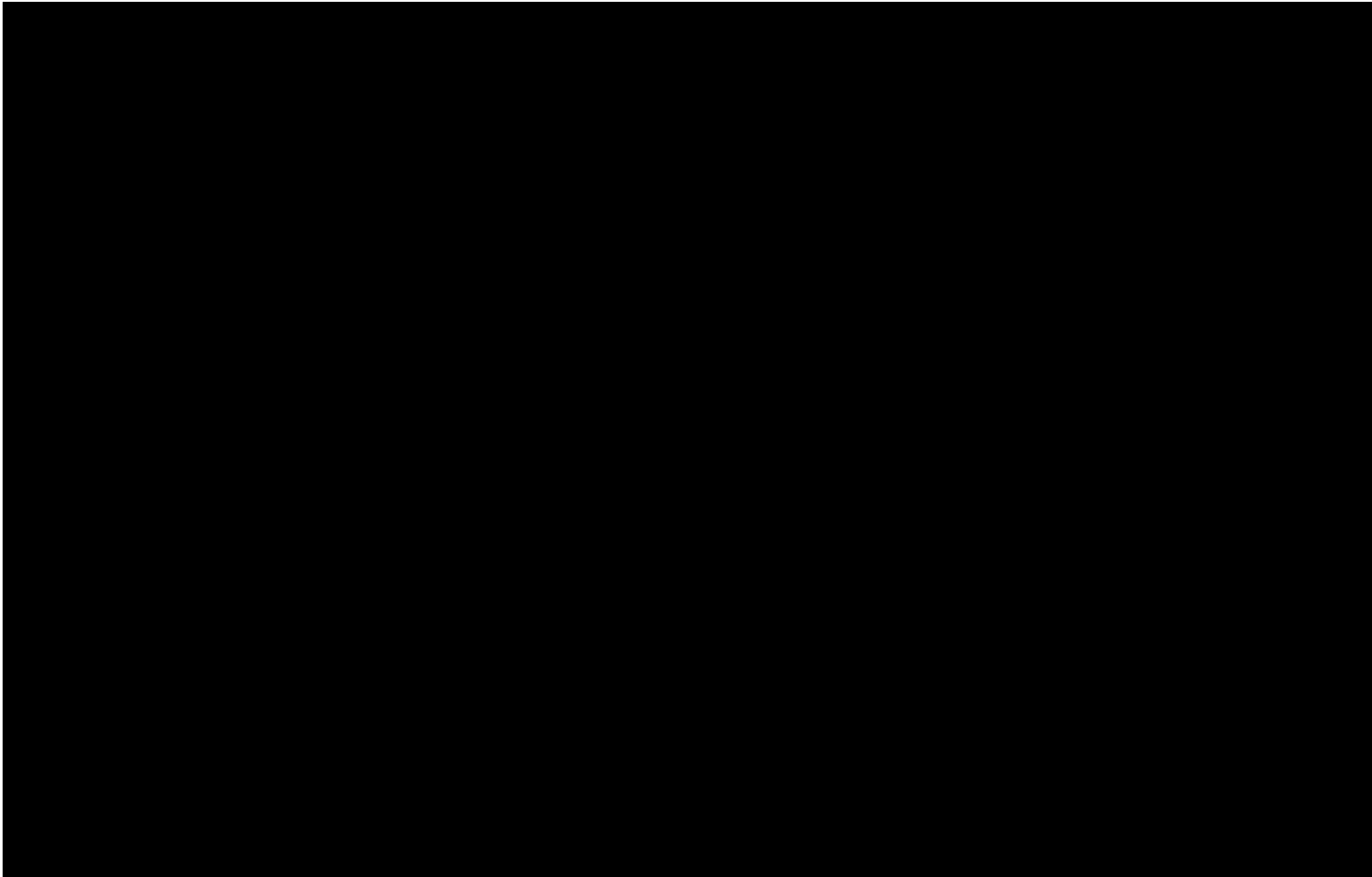
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**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]

**Sent:** Wednesday, 20 April 2011 4:17 p.m.

**To:** [REDACTED]

**Subject:** Kea research

Hi [REDACTED]

Thanks for the conversation just now. As we discussed, I'm just after a summary of the recent research around the risks of the use of 1080 for kea and the research that has been done to eliminate or manage those risks.

The draft papers you mentioned sound good, and maybe a copy of Kemp, J.; van Klink, P.A. 2008: A preliminary assessment of by-kill of kea (*Nestor notabilis*) during aerial 1080 operations for invasive mammal control. Unpublished report Department of Conservation, Nelson, NZ. 30 p. if you can get a copy of that one.

Kind regards and keep up the good work!

[REDACTED]  
[REDACTED]  
[REDACTED]

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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Thursday, 21 April 2011 5:25 p.m.

**To:** [redacted]

**Subject:** Fur industry workshop on the 27th April

Hi [redacted]

I just wanted to drop you a quick line to confirm that I will be attending the fur industry workshop on behalf of the PCE. Thank you also for changing the venue to accommodate the extra person.

Our focus in the report is still very much around the use of 1080 and alternatives for the management of small mammal pests, and so the workshop will provide a very useful opportunity for us to understand more about one of the proposed alternatives/complements for possum control.

Regarding the report itself, we should have that ready for the department for a content review by the start of May, but we can discuss that in more detail on Wednesday.

Have a good Easter and I'll see you next week.

Kind regards

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1. Introduction

2. Methodology

3. Results

4. Discussion

5. Conclusion

6. References

7. Appendix

8. Acknowledgements

9. Contact Information

10. Author Biographies

11. Declaration of Interest

12. Funding Sources

13. Data Availability

14. Ethics Approval

15. Correspondence

**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]

**Sent:** Tuesday, 26 April 2011 5:11 p.m.

**To:** [REDACTED]

**Subject:** RE: Ground control question

Hi [REDACTED]

I hope you had a good Easter break. Could you please tell me whether the use of first generation anti-coagulants, such as diphacinone, could lead to by-kill of stoats?

Thanks,  
[REDACTED]

---

**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]  
**Sent:** Friday, 15 April 2011 9:51 a.m.  
**To:** [redacted]  
**Subject:** Ground control question

Hi [redacted]

May I please ask you a quick question?

Just in general - what are the toxins most commonly used in bait stations in forests managed by DOC? 1080, brodifacoum, diphacinone, cyanide? Are there common combinations?

Regards

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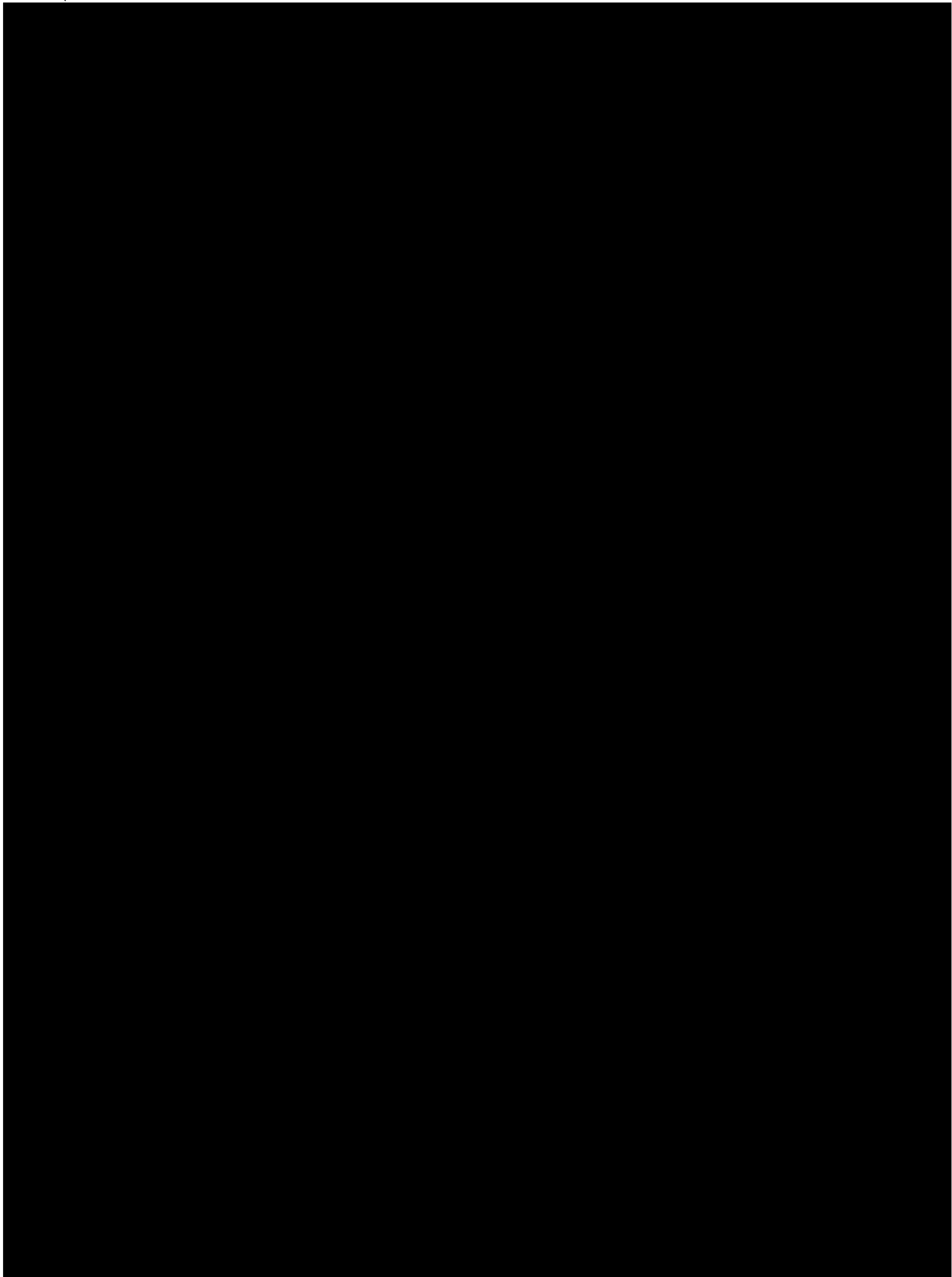
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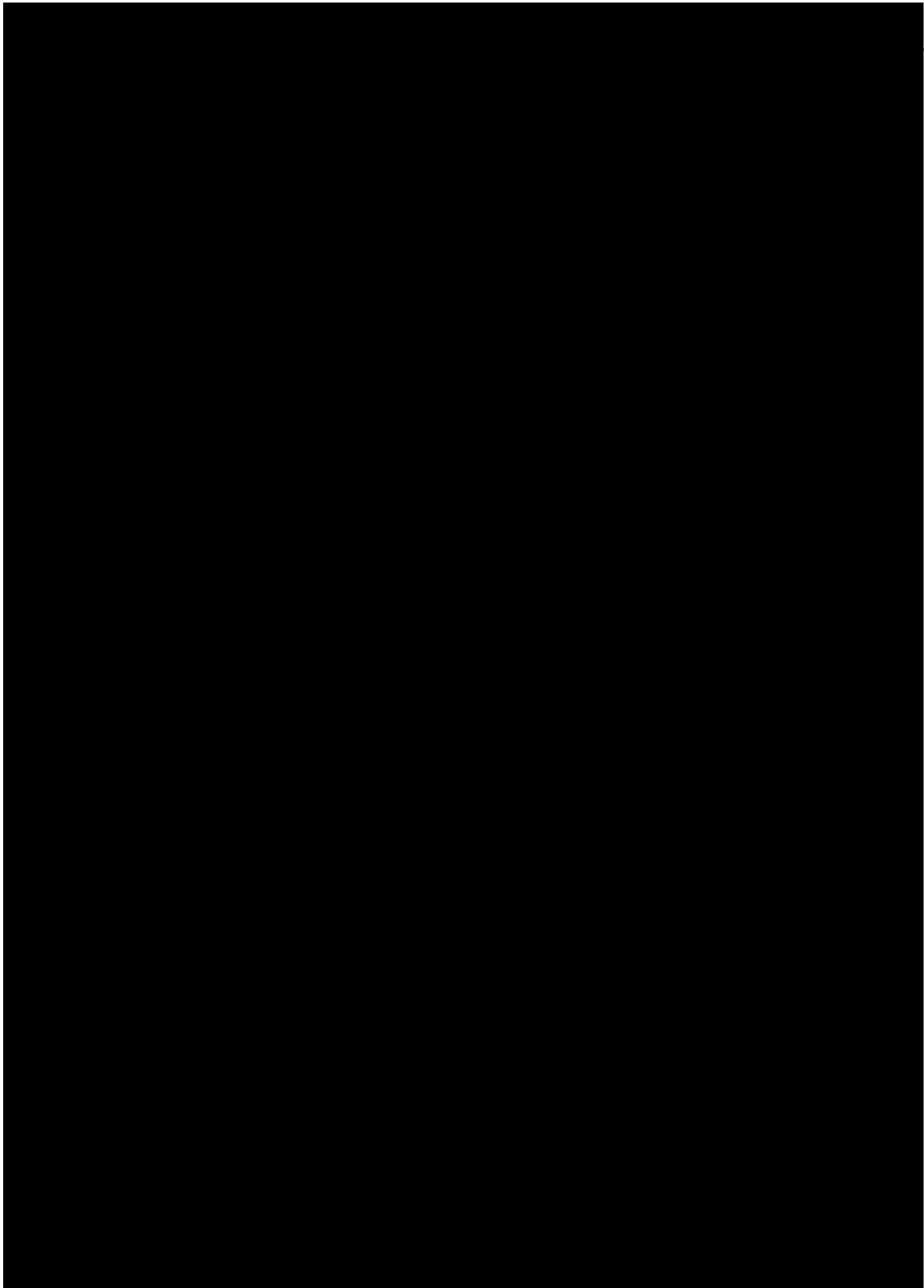
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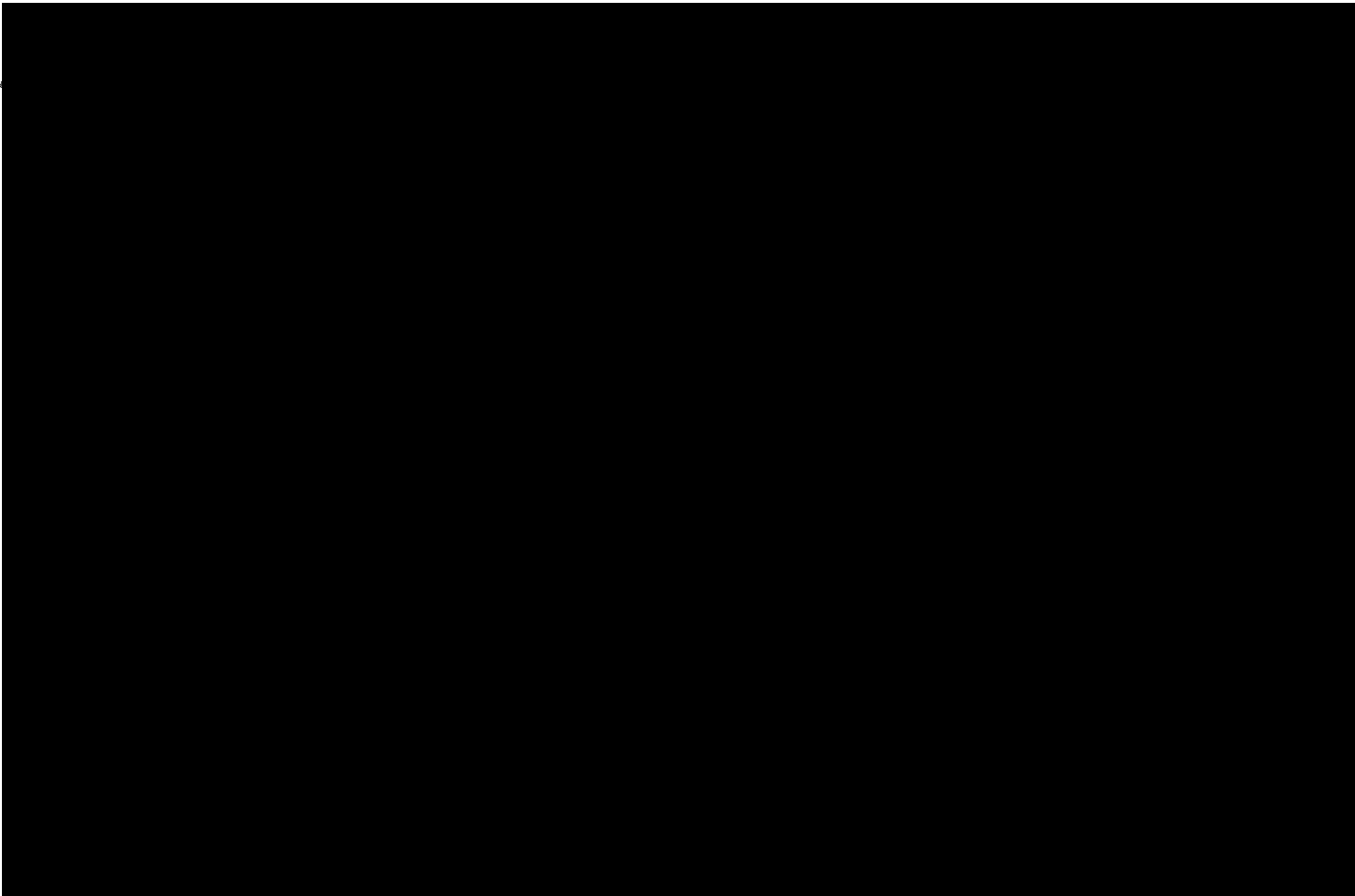
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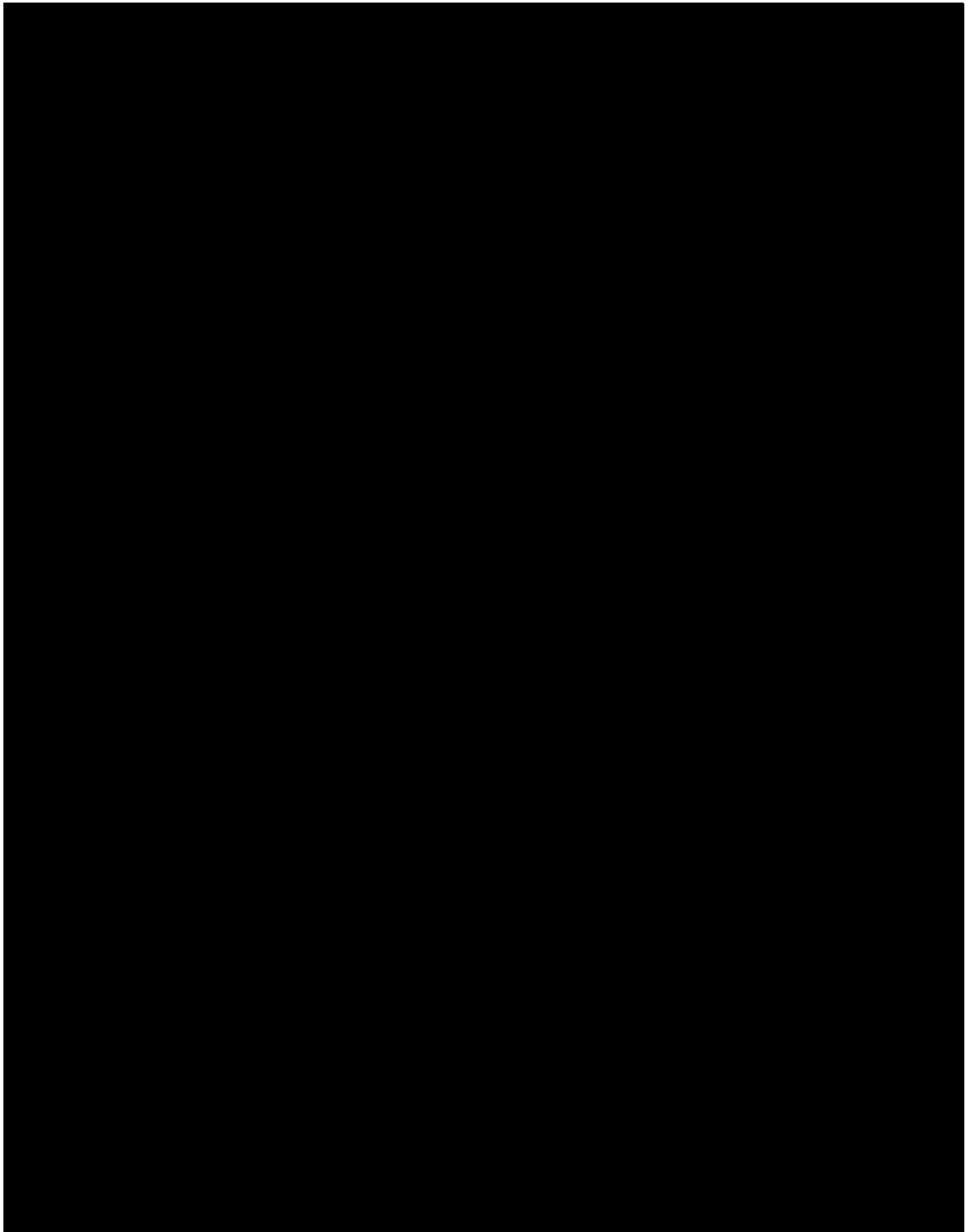


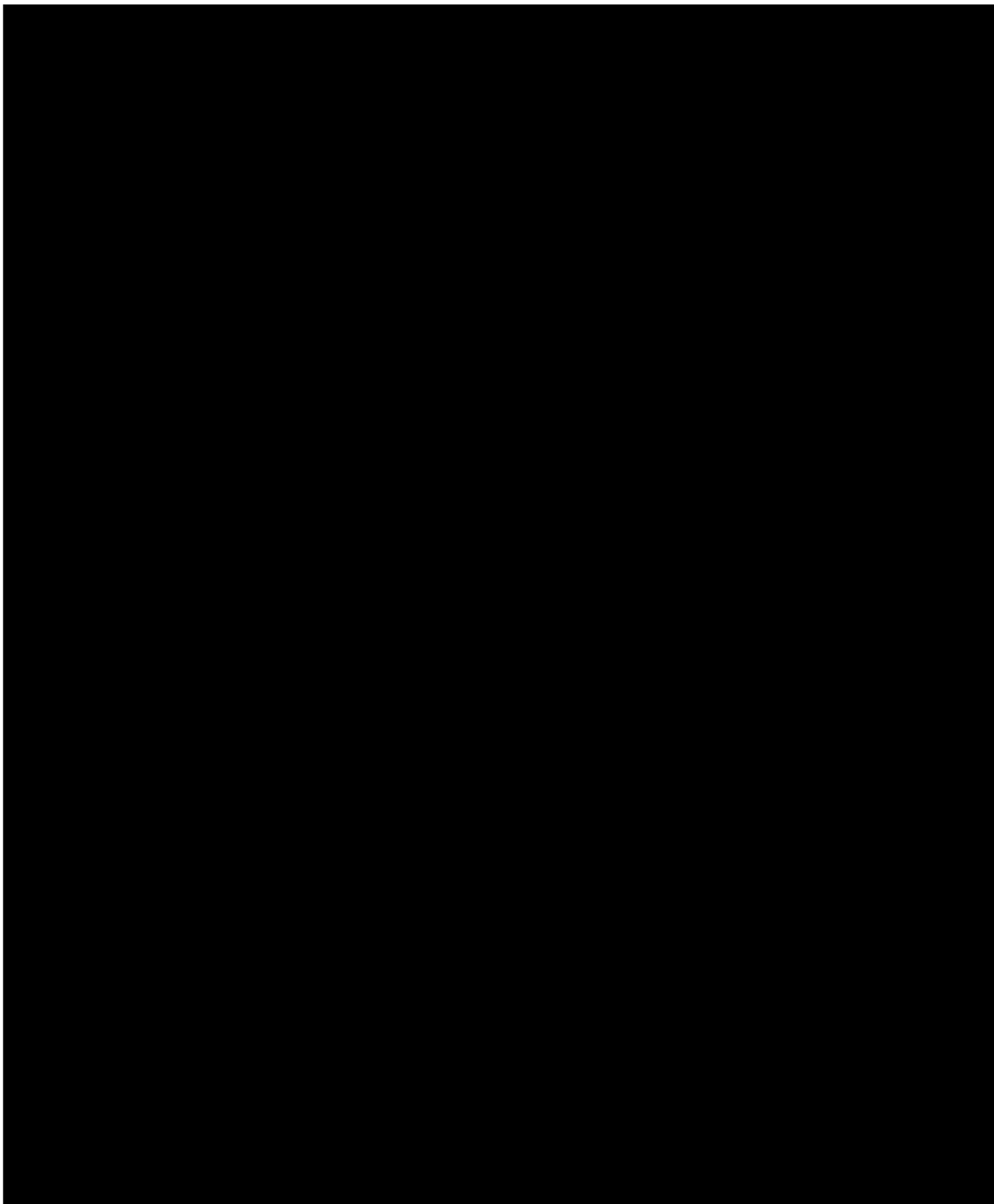




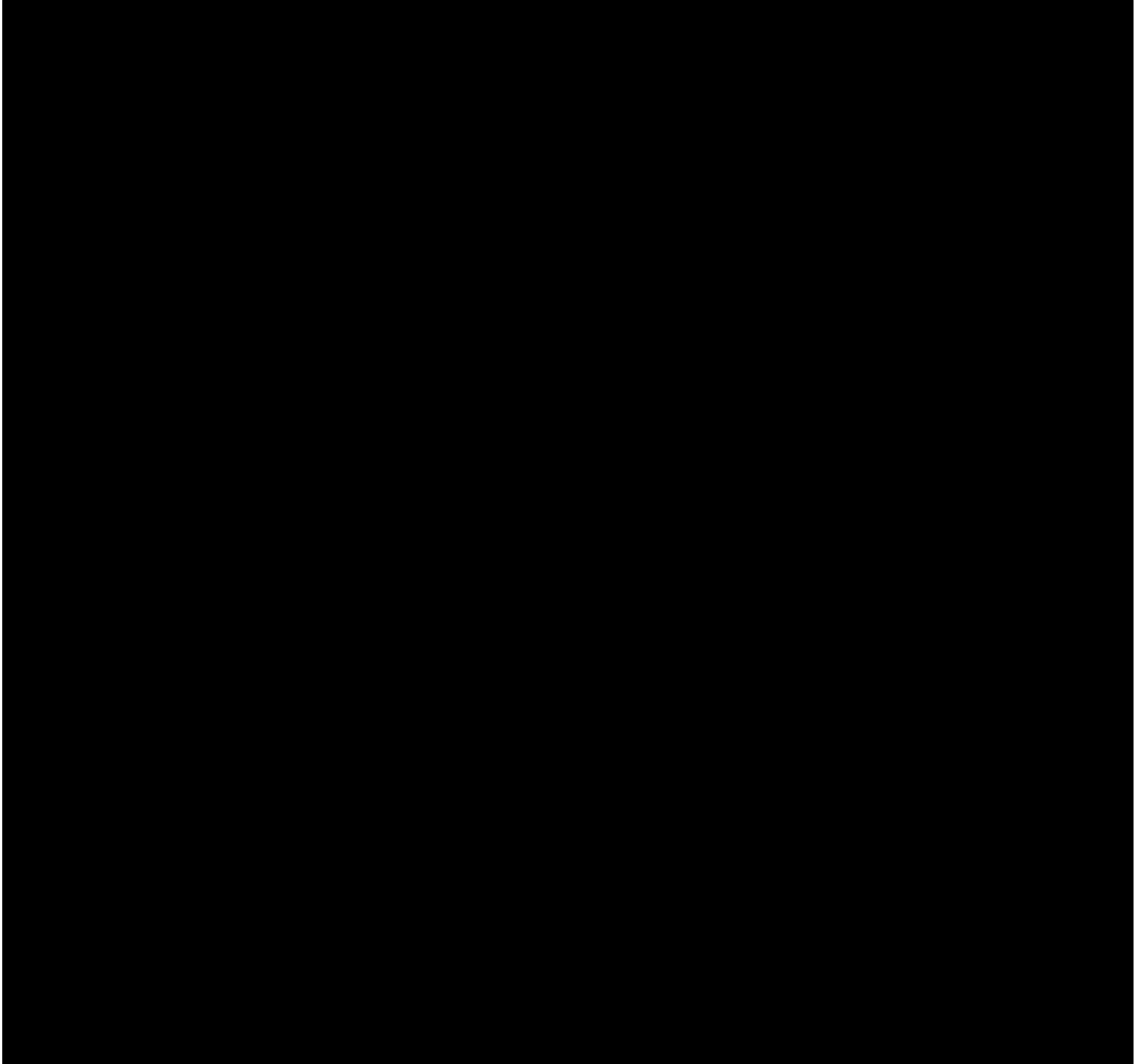


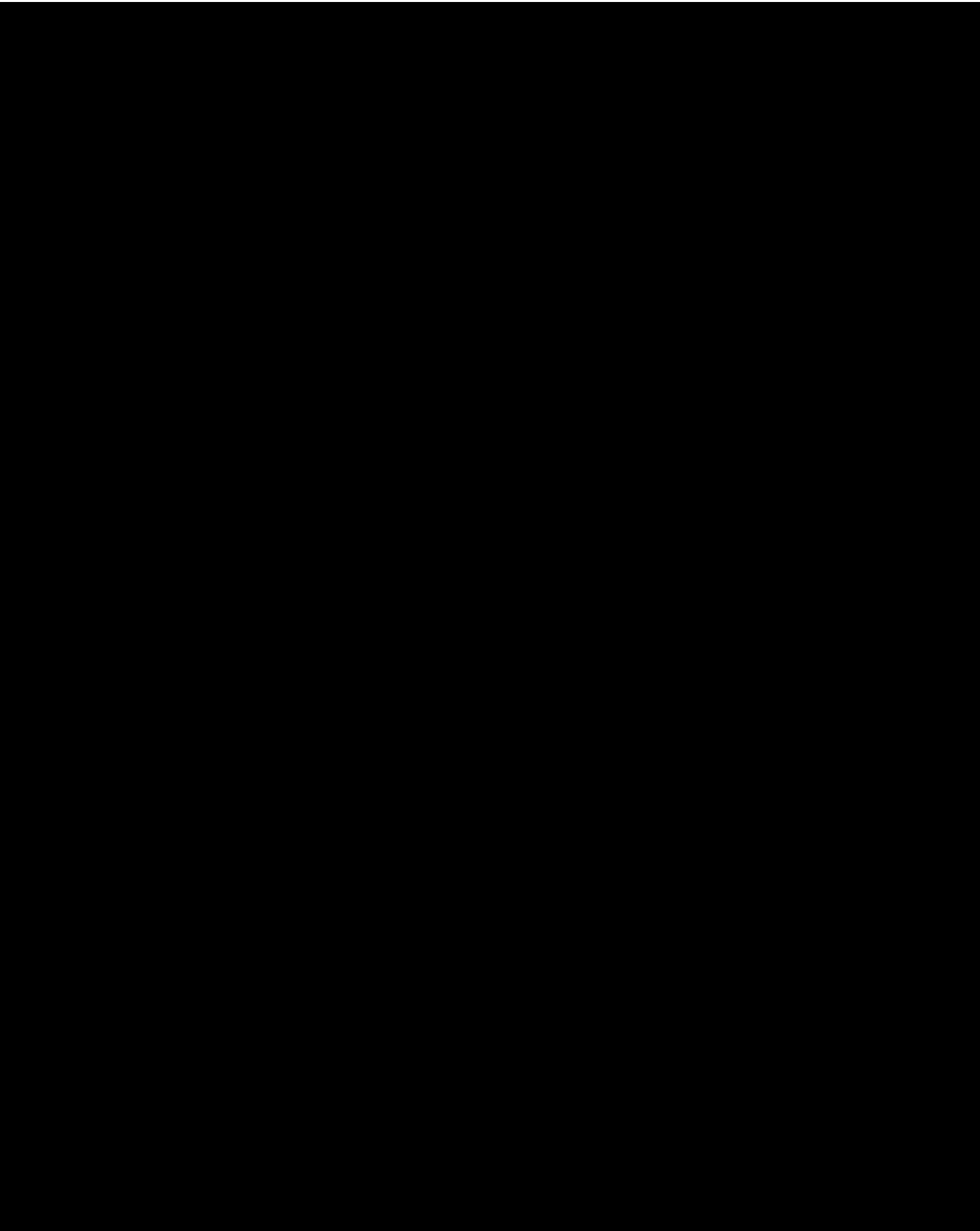


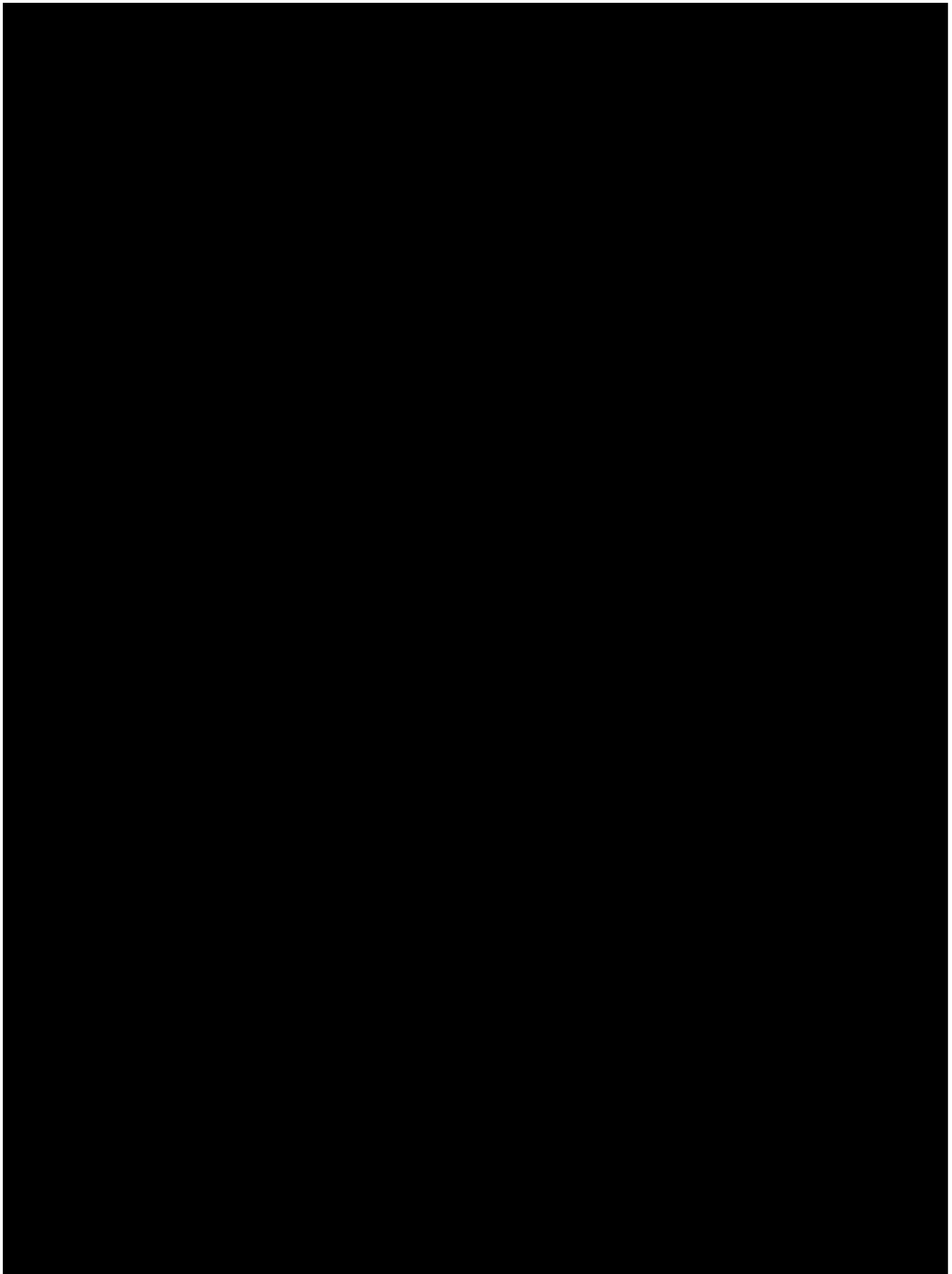


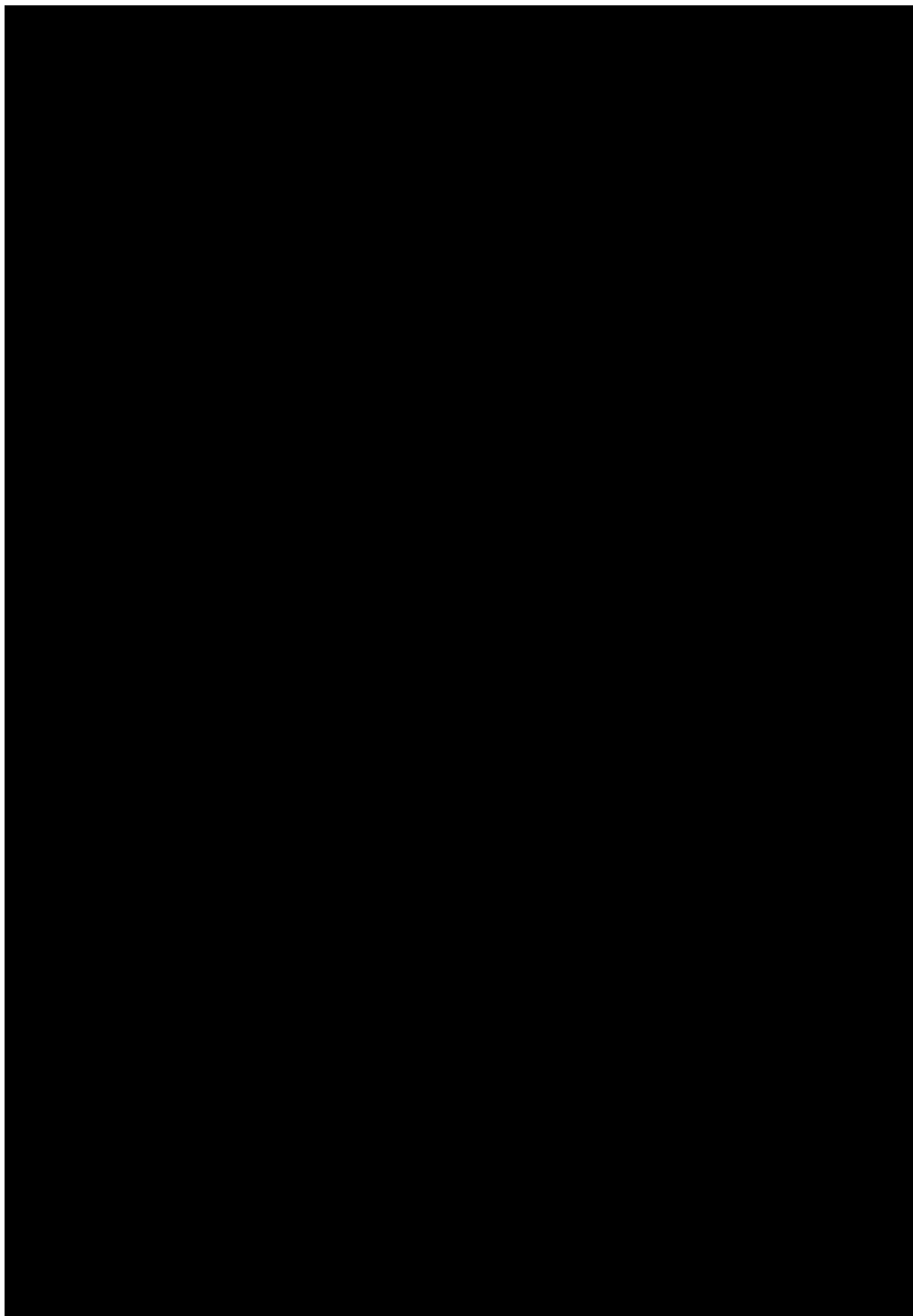


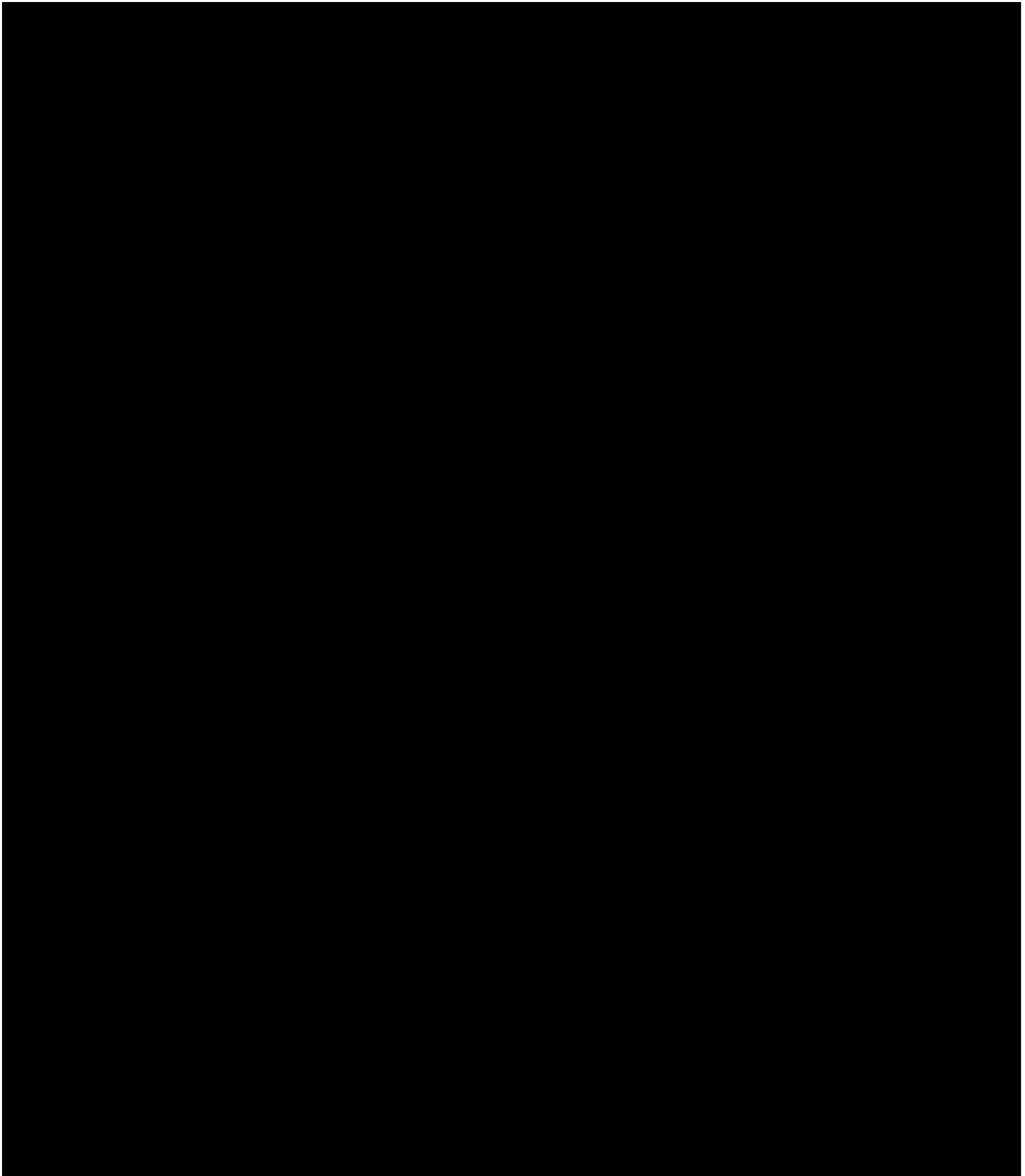


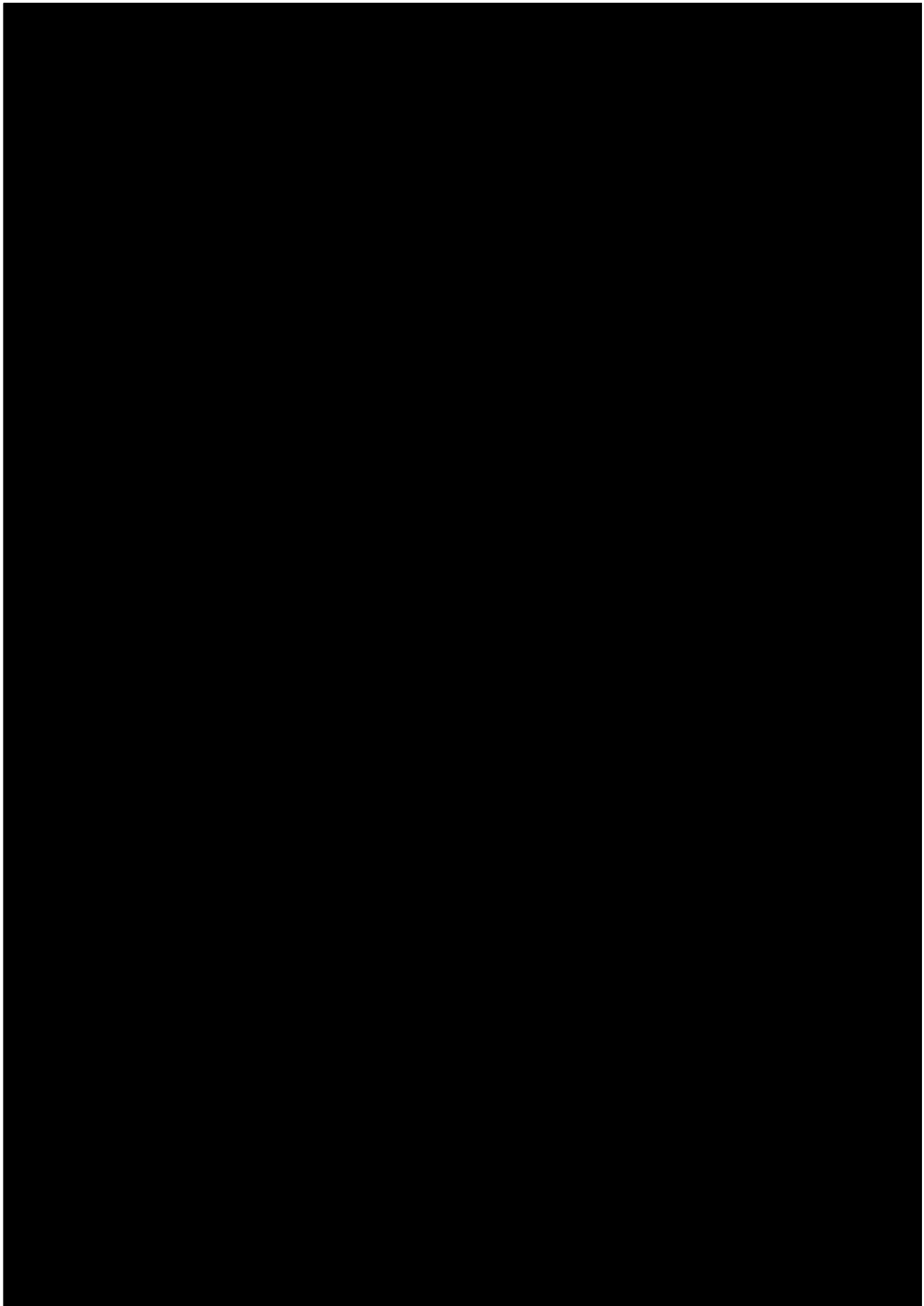


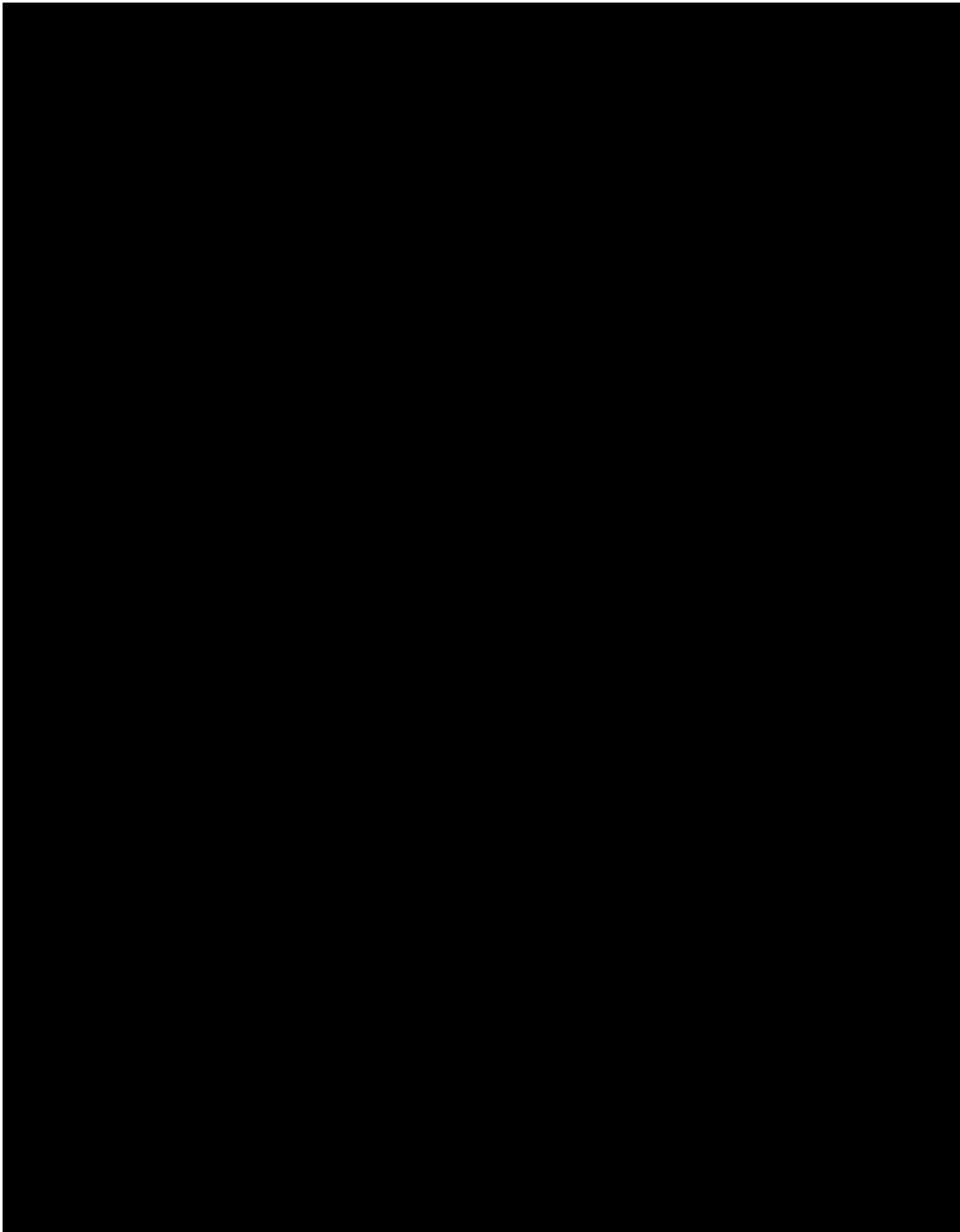


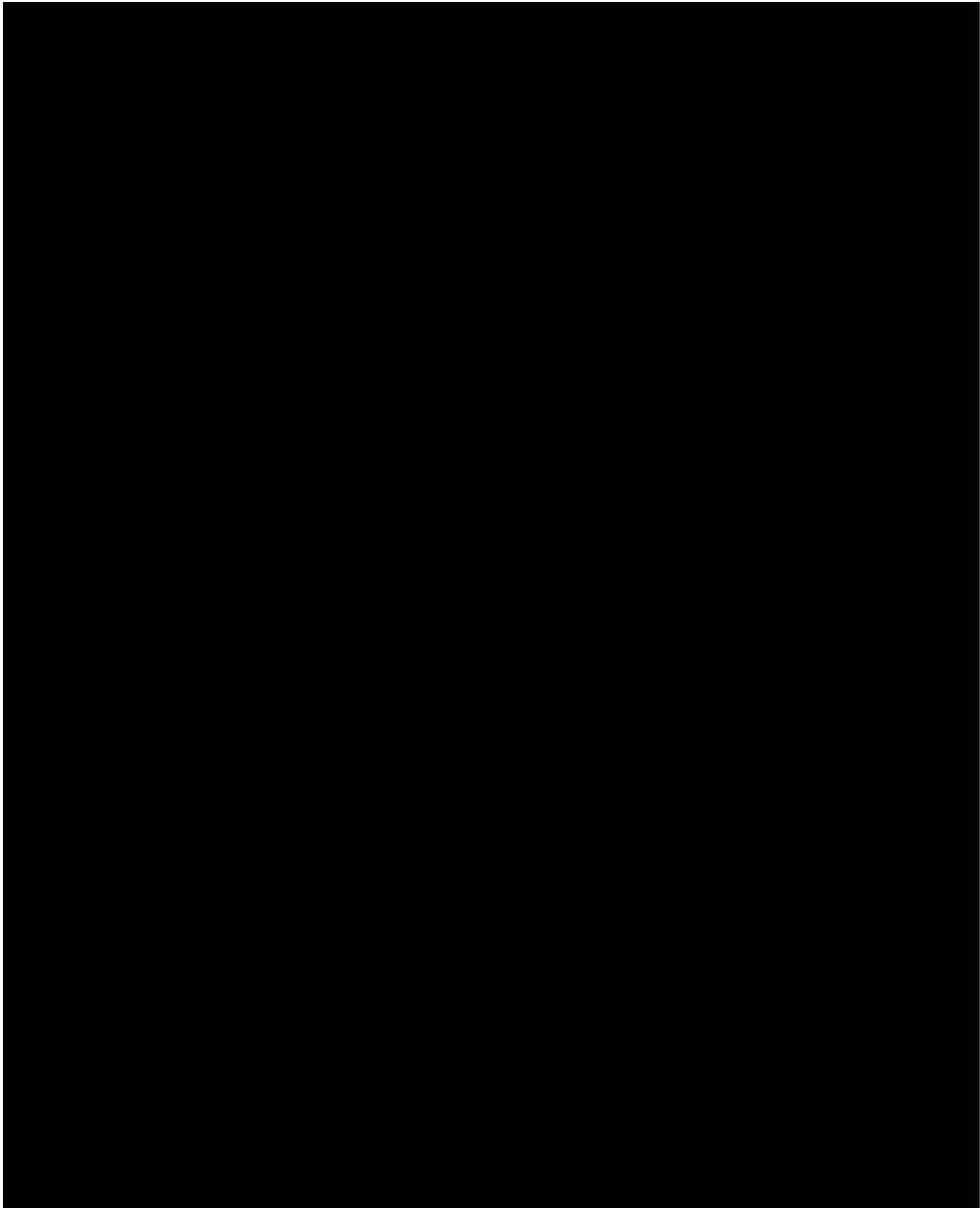




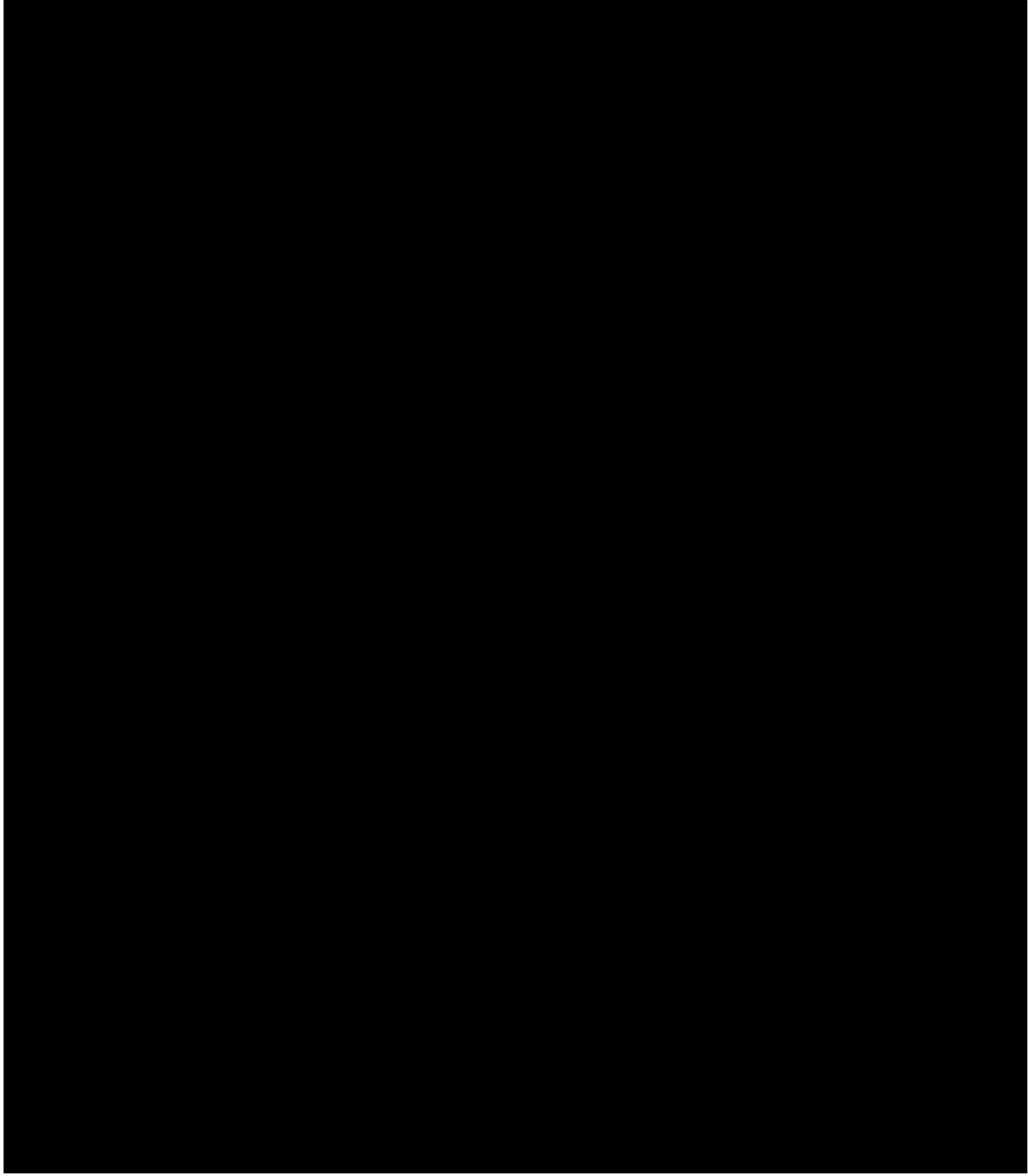


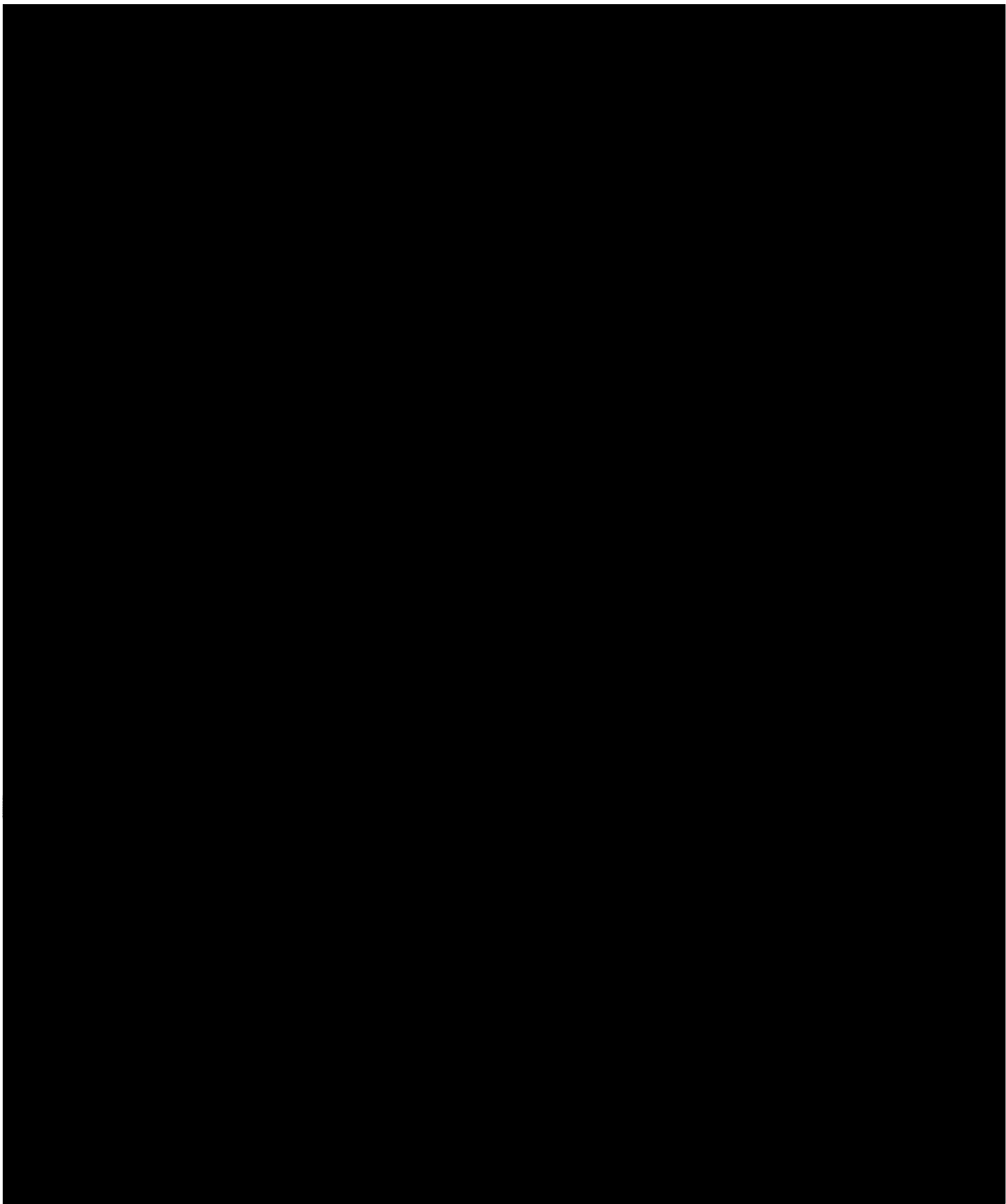


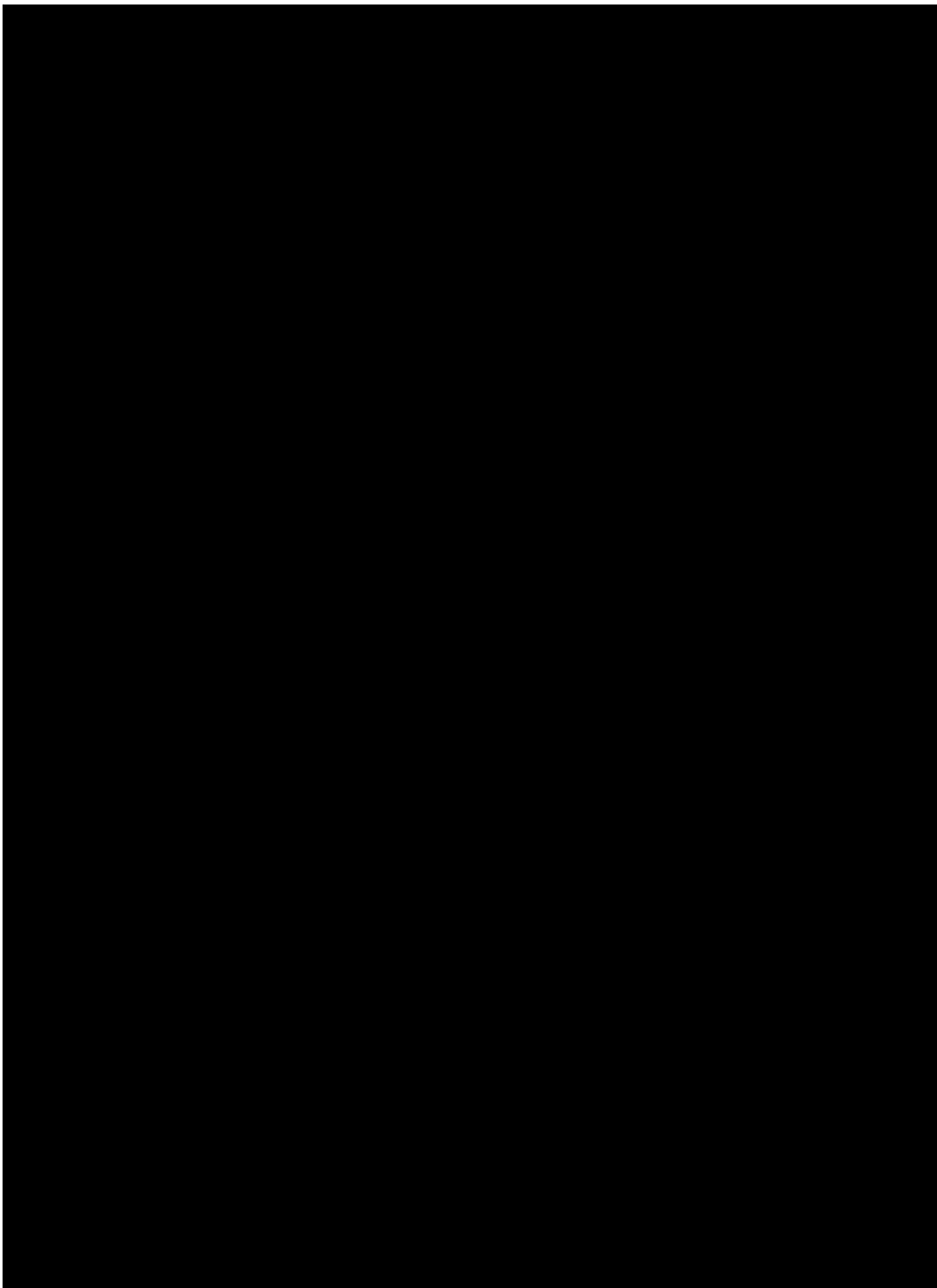


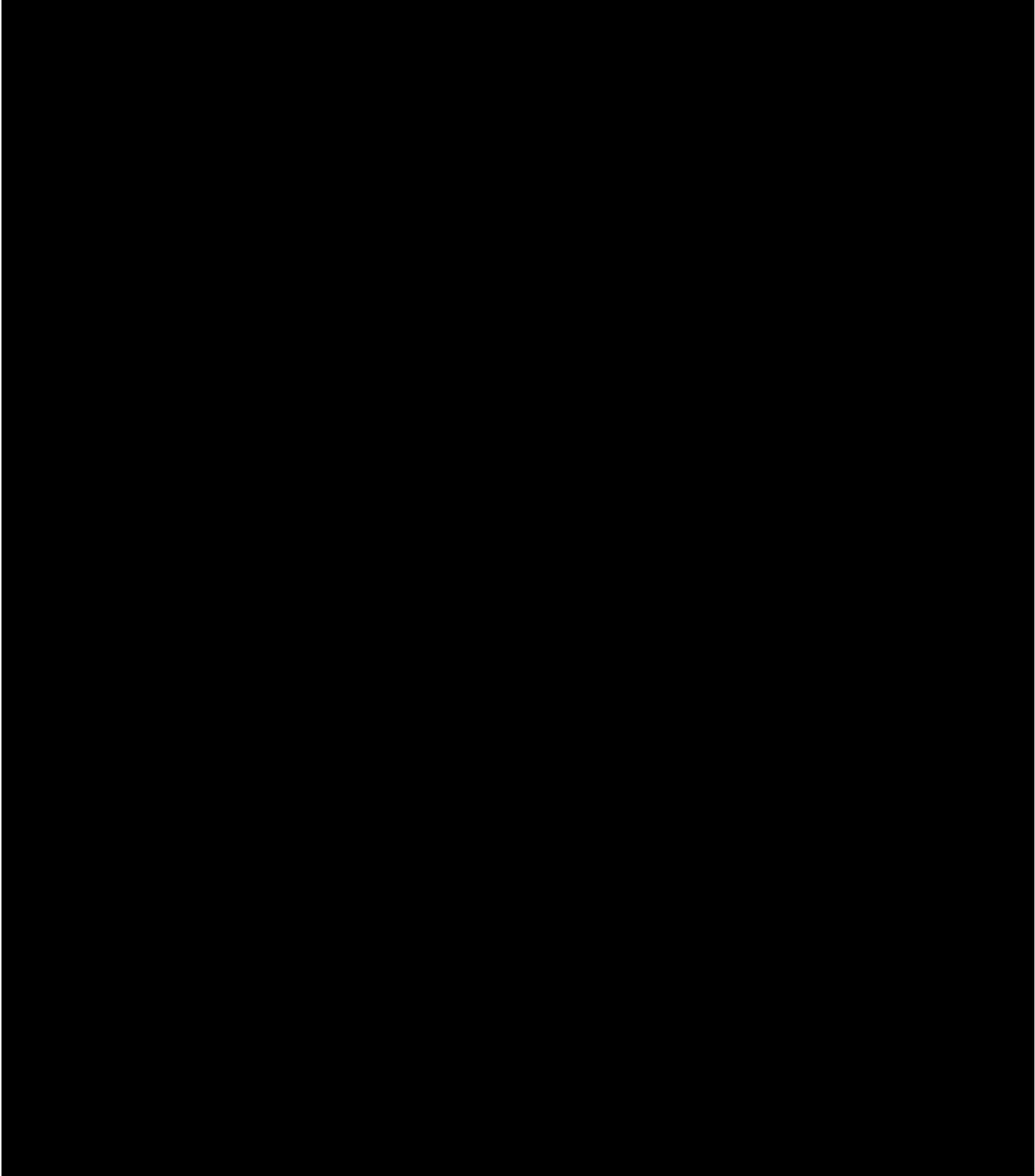










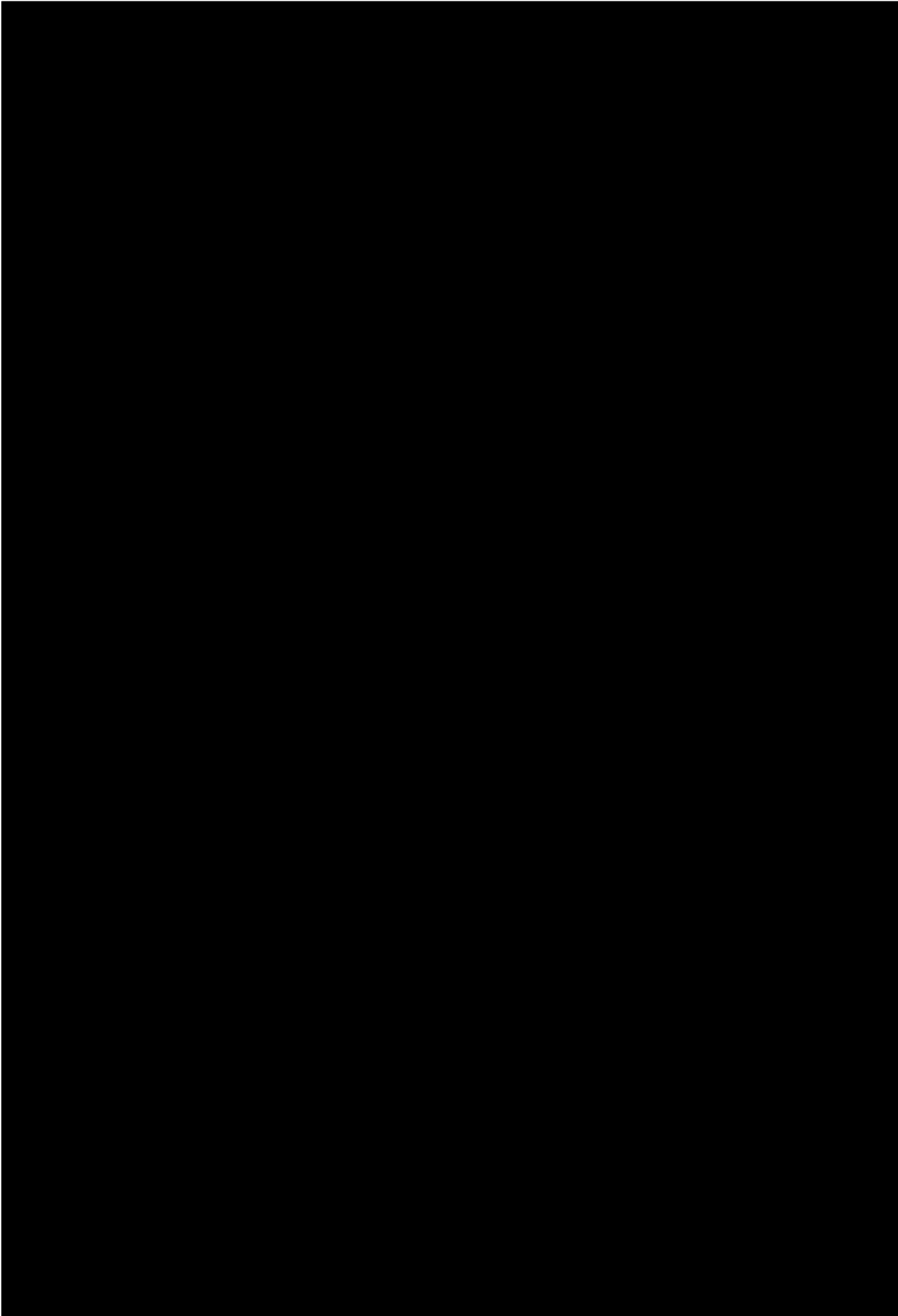


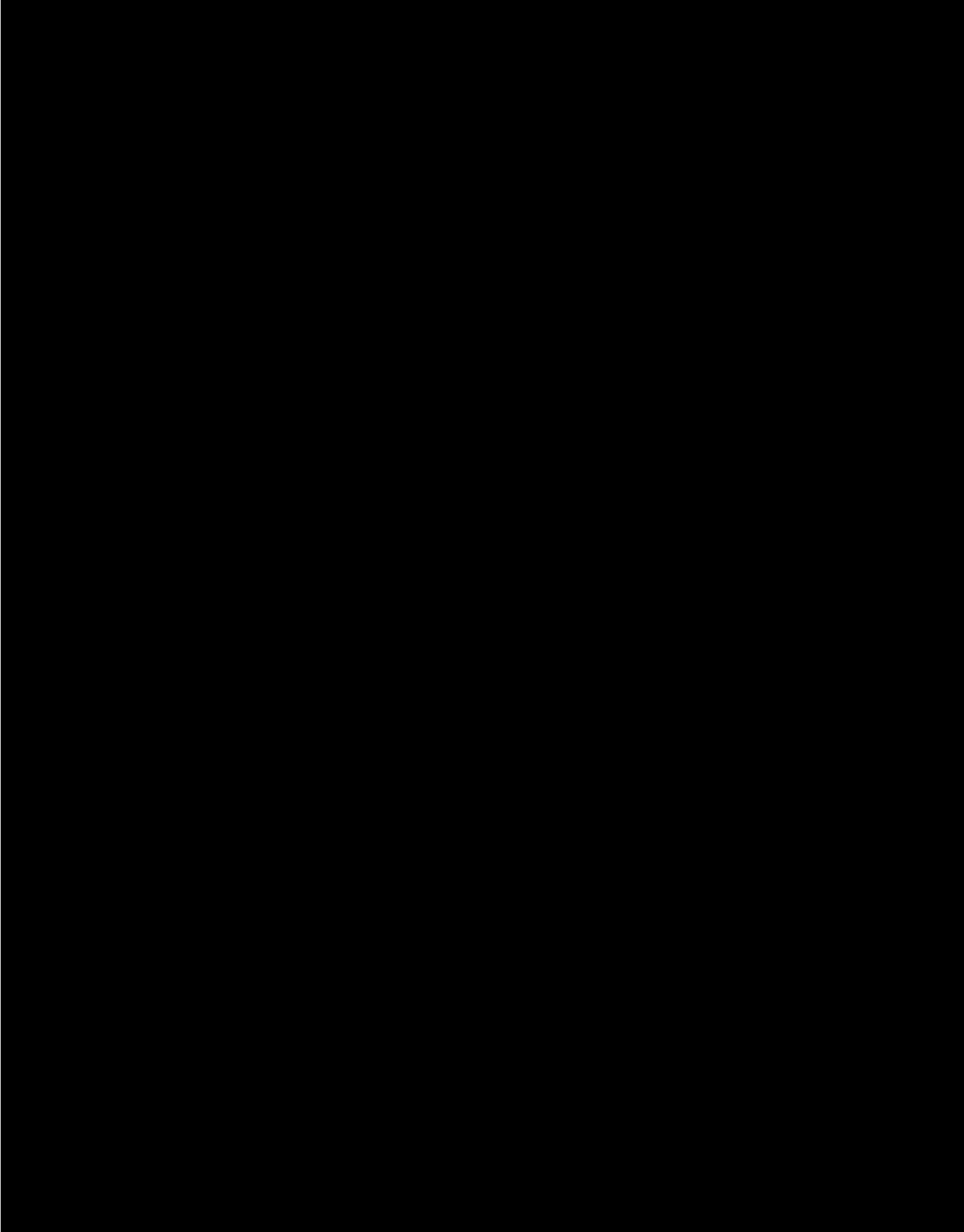
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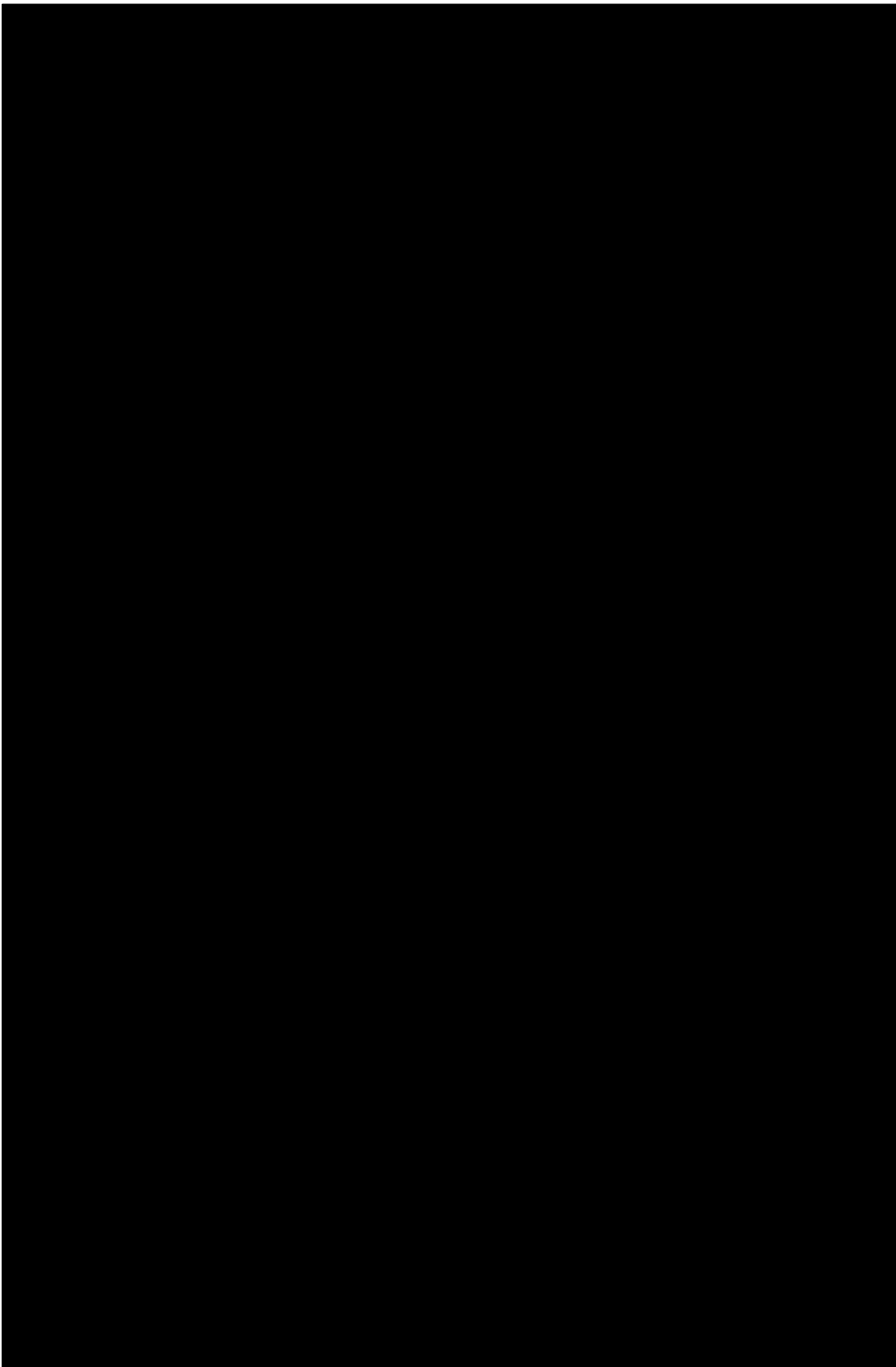
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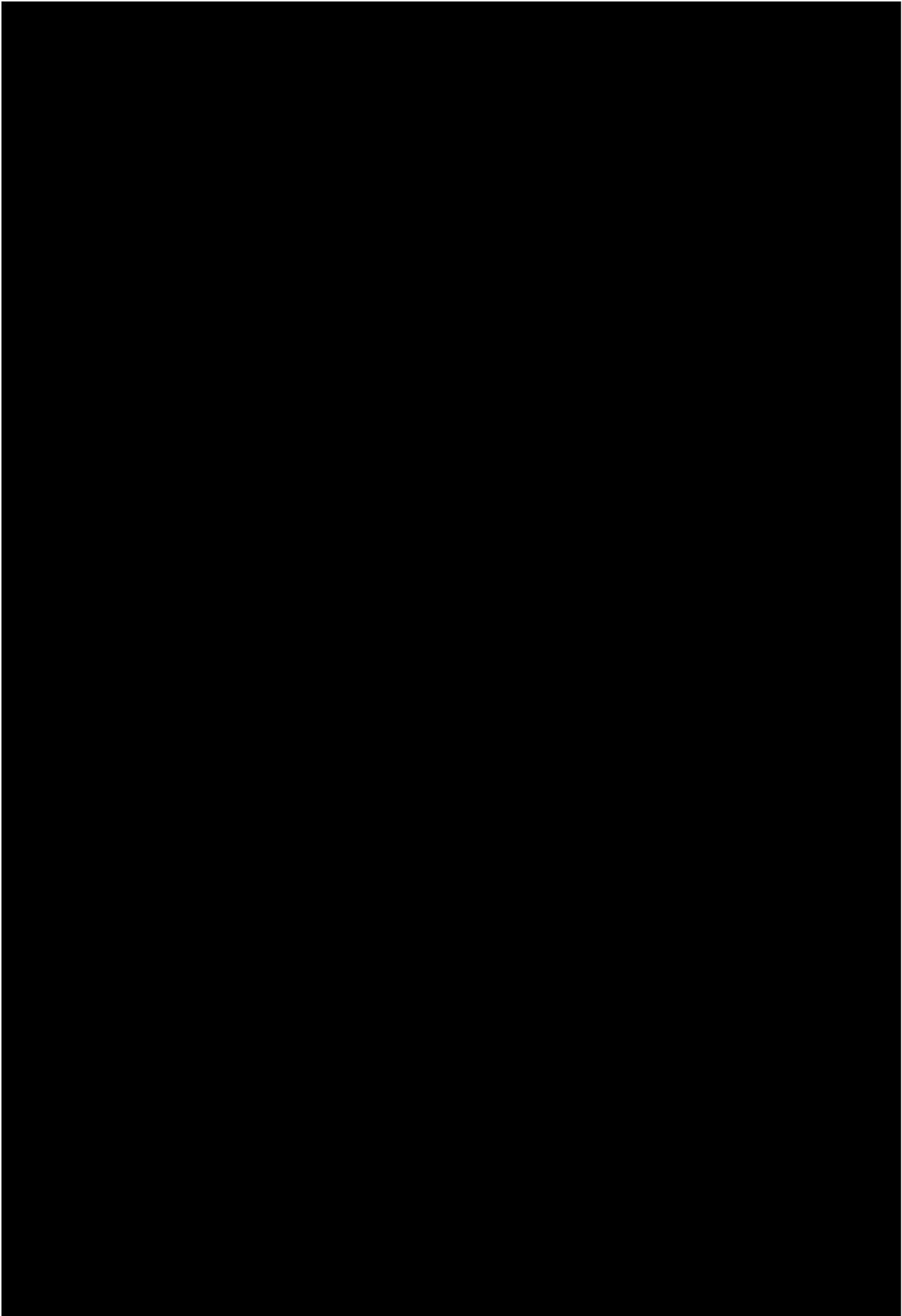
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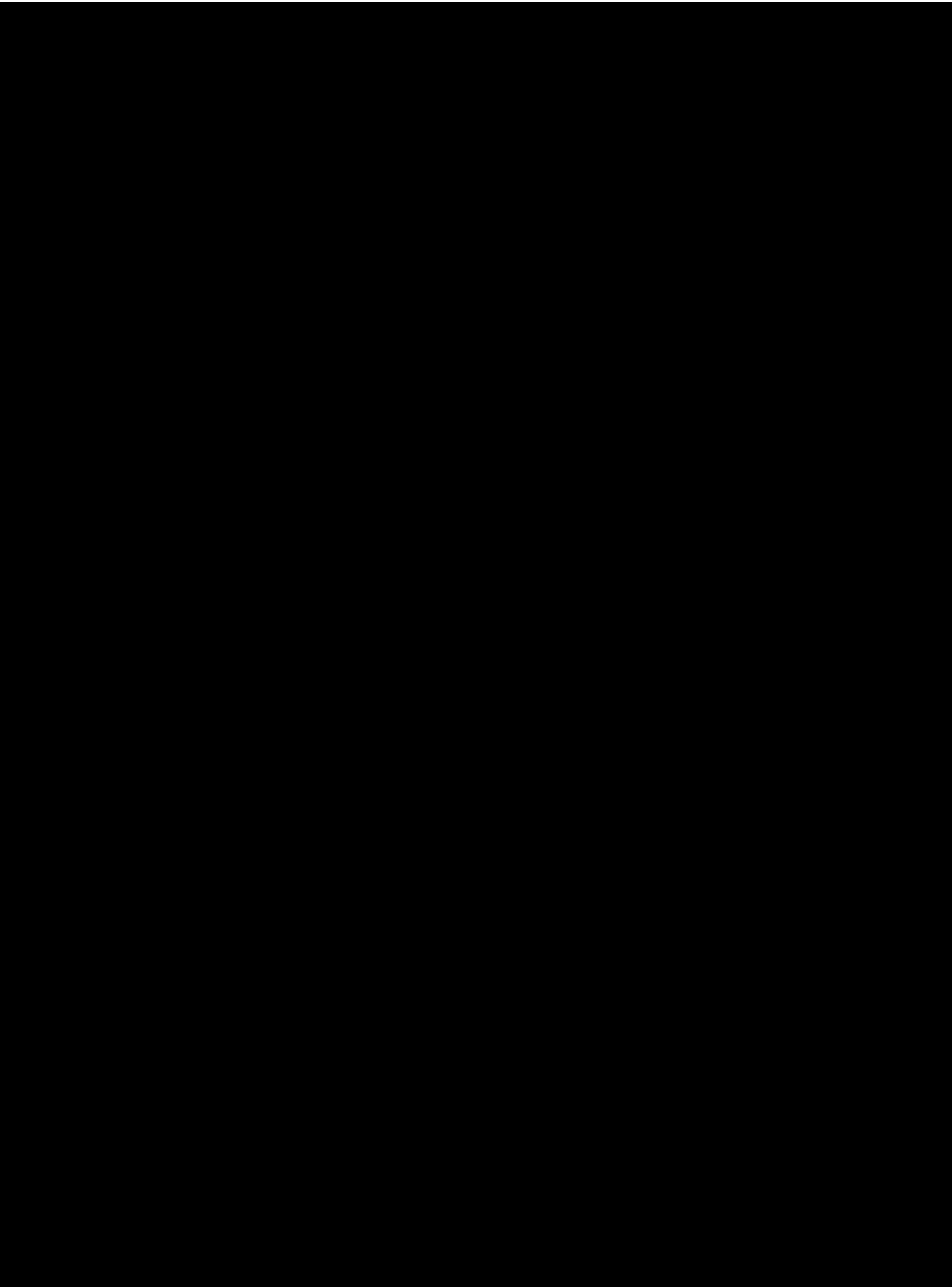


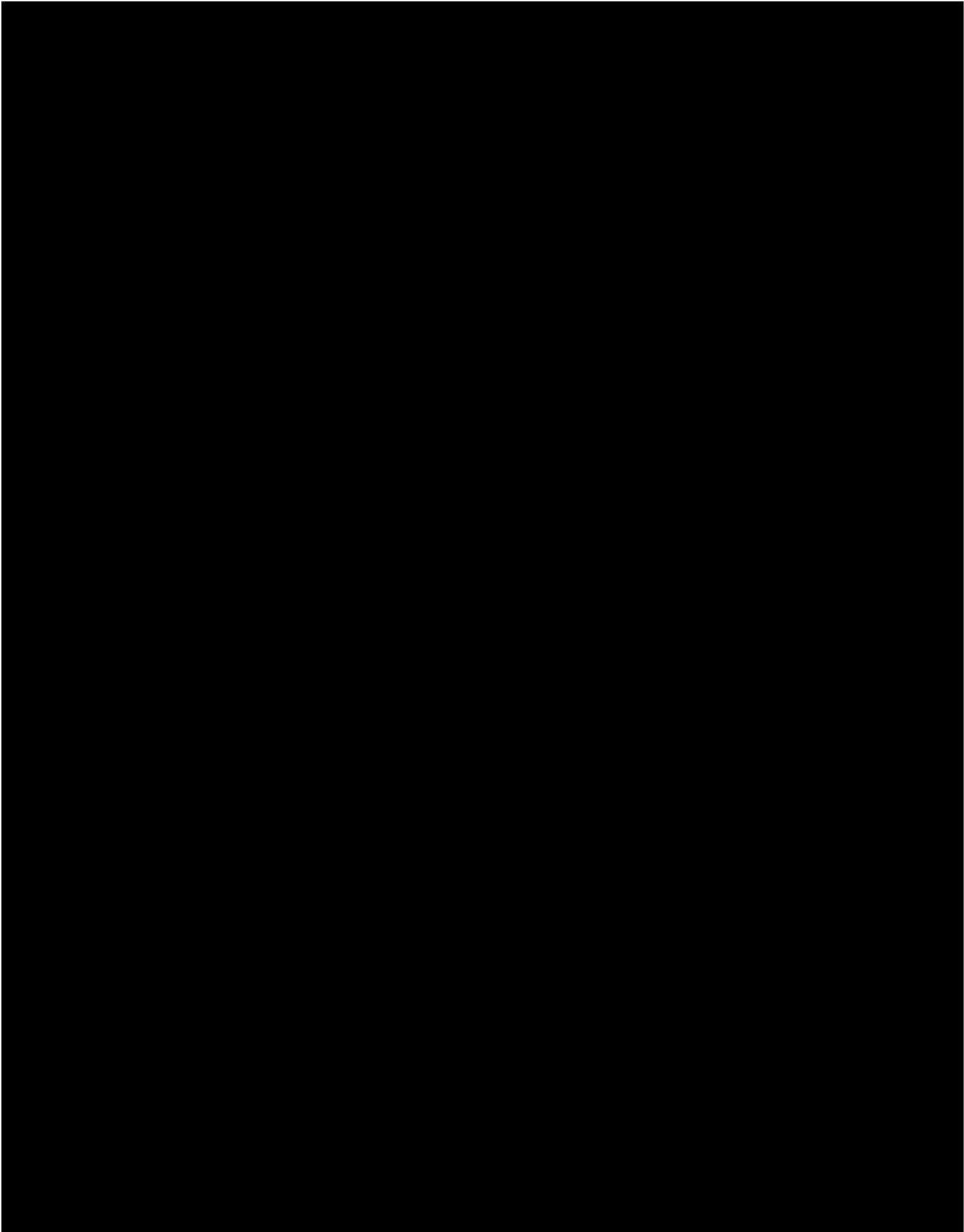


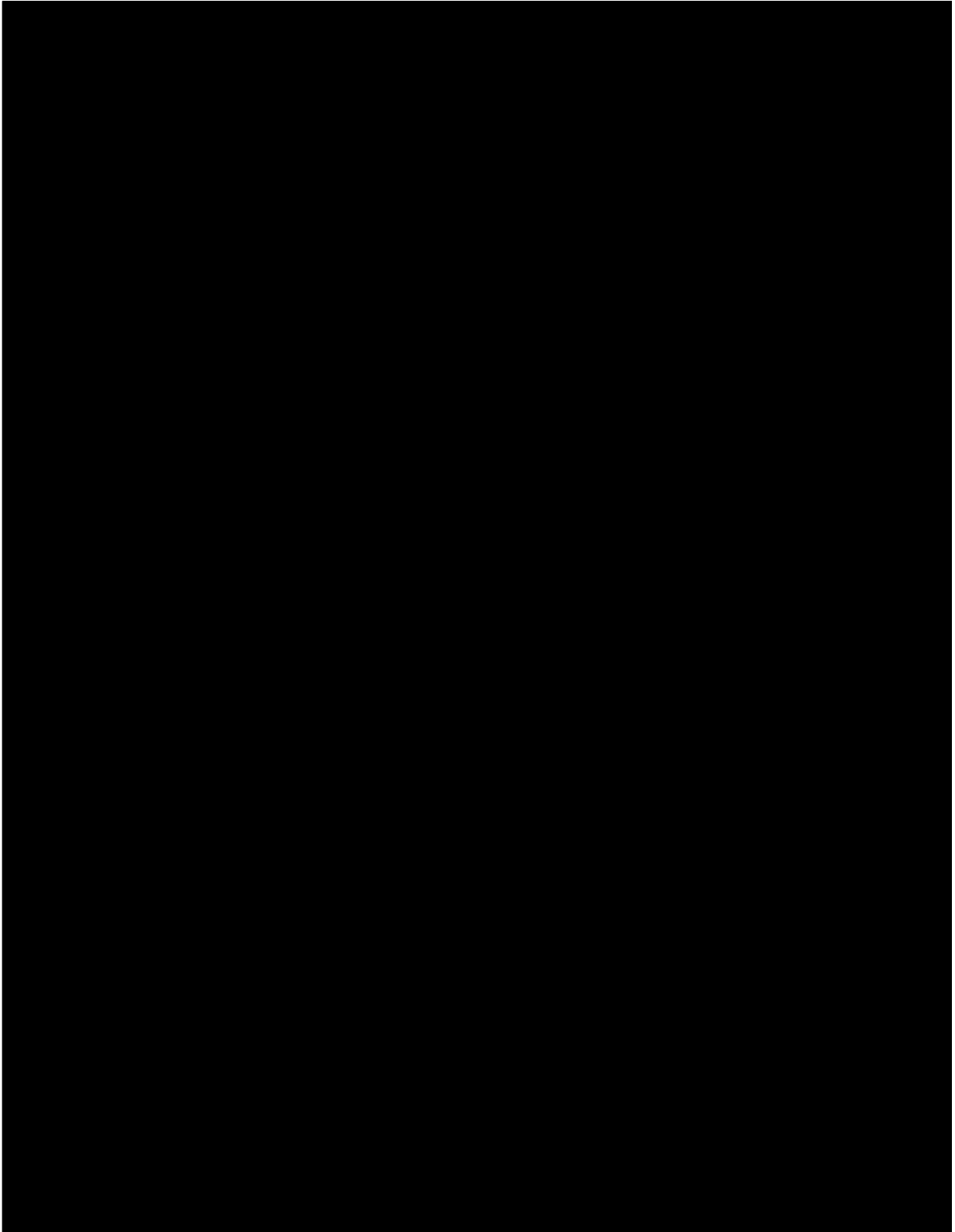














**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Thursday, 5 May 2011 5:27 p.m.

**To:** [redacted]

**Cc:** [redacted]

**Subject:** PCE Report on 1080 and alternatives for content review by the Department of Conservation

Dear [redacted]

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Thank you again for your assistance, and I look forward to your reply

Kind regards

[REDACTED]  
[REDACTED]  
[REDACTED]  
Office of the Parliamentary Commissioner for the Environment

PO Box 10-241

WELLINGTON

Phone [REDACTED]

[REDACTED]@pce.parliament.nz

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**To:** [REDACTED]

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**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]

**Sent:** Tuesday, 10 May 2011 3:18 p.m.

**To:** [REDACTED]

**Subject:** RE: PCE Report on 1080 and alternatives for content review by the Department of Conservation

Hi [REDACTED]

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[REDACTED]

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[REDACTED]

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**Sent:** Thursday, 5 May 2011 5:27 p.m.

**To:** [REDACTED]

**Cc:** [REDACTED]

**Subject:** PCE Report on 1080 and alternatives for content review by the Department of Conservation

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Kind regards

[Redacted signature]

Office of the Parliamentary Commissioner for the Environment

PO Box 10-241

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Phone [Redacted]

[Redacted]@pce.parliament.nz

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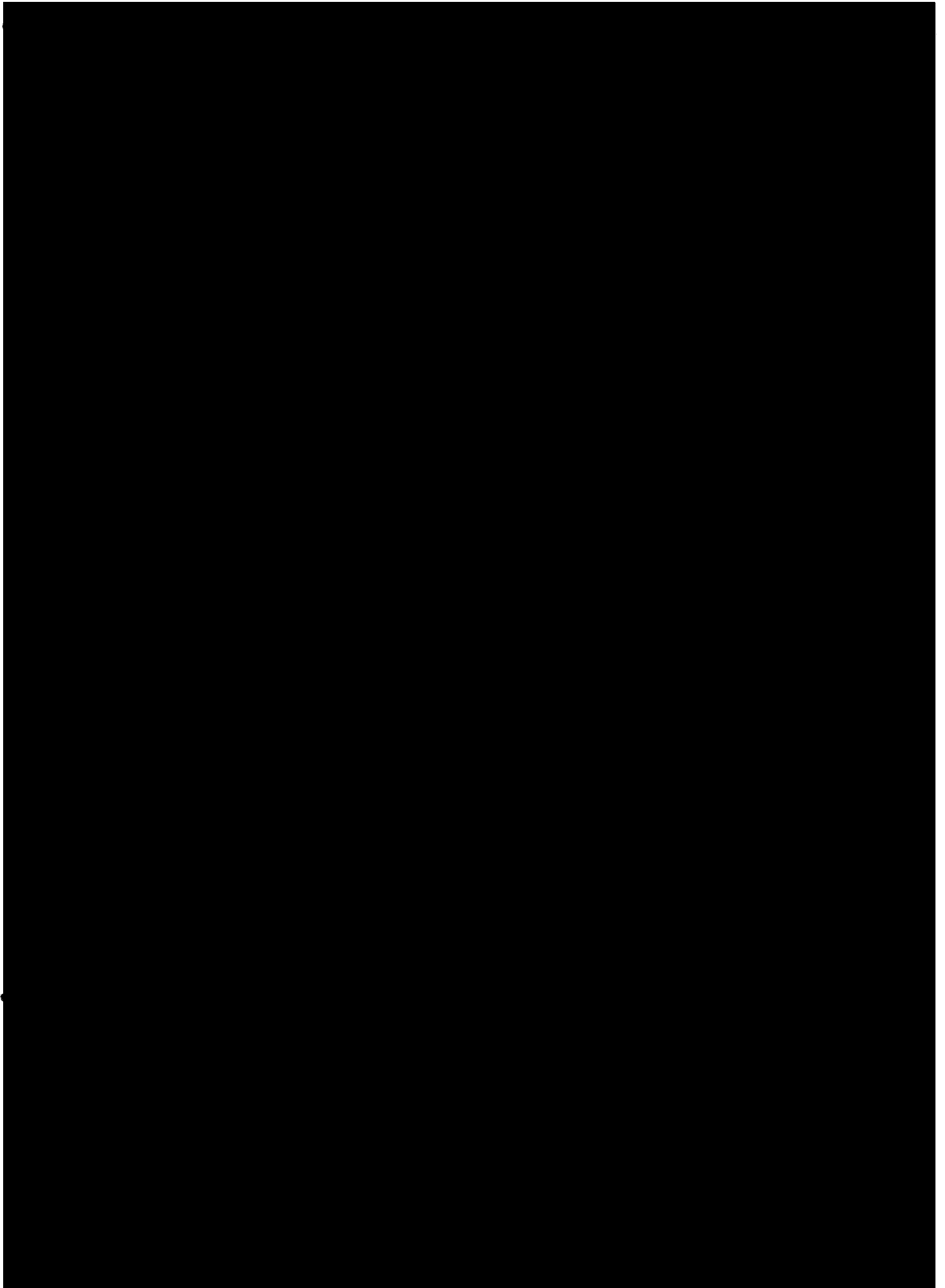
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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Tuesday, 10 May 2011 1:29 p.m.

**To:** [redacted]

**Subject:** Controlling rodents with anti-coagulants

Hello [redacted]

I have spoken with you recently about pest control.  
Could you please check that these statements are correct:

- While anti-coagulant baits are generally more expensive than 1080 pellets, the price of using anticoagulants is largely driven by the cost of labour involved.



- Controlling rats in forests during the bird breeding season using anticoagulants in bait stations costs at least \$80 per hectare and requires the bait stations to be visited six or seven times to restock the stations with baits
- When rat numbers increase rapidly, anti-coagulants are usually not fast-acting enough to sufficiently get numbers back down to low levels.

Thank you very much.

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DDI: [REDACTED]  
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[www.pce.parliament.nz](http://www.pce.parliament.nz)

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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Tuesday, 10 May 2011 3:55 p.m.

**To:** [redacted]

**Subject:** RE: Controlling rodents with bait stations

Hi [redacted]

Thank you for that.

Can I just clarify - what is "probably not" correct about anti-coagulants acting too slowly to knock down rat irruptions? I was thinking of first generation anti-coagulants.

[redacted] had said that it's hard to get on top of high rat densities with those types of toxins but that they are effective at keeping low numbers of rats controlled...

Your fact around tied up baits is really interesting. Makes perfect sense that rats would prefer to find food on the forest floor and take it somewhere safe to nibble at it. Does only DOC tie its bait? Is that a new policy? Does it only apply for brodifacoum or any anti-coagulant?

Thanks again,  
[REDACTED]

---

**From:** [REDACTED] [mailto:[REDACTED]@pce.parliament.nz]

**Sent:** Tuesday, 10 May 2011 1:28 p.m.

**To:** [REDACTED]

**Subject:** Controlling rodents with bait stations

Hello [REDACTED]

I have spoken with you recently about pest control.  
Could you please both check that these statements are correct:

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- Controlling rats in forests during the bird breeding season using anticoagulants in bait stations costs at least \$80 per hectare and requires the bait stations to be visited six or seven times to restock the stations with baits
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Thank you very much.

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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Wednesday, 11 May 2011 11:04 a.m.

**To:** [redacted]

**Cc:** [redacted]

**Subject:** RE: DOC's pesticide status list

Hi [redacted]

Thank you for the spreadsheet and the information you and [redacted] provided yesterday. The comments will be helpful and I'll look at the draft in light of them today.

One question regarding 1080 that the excel sheet does raise is why aerial 1080 is not approved by DOC for mice? From experience with mouse population dynamics in NZ and Australia I have a fair idea of the challenges with controlling them, but I just wondered what the basis for the department's decision was?

Kind regards

[redacted]

[redacted]

[redacted]

Office of the Parliamentary Commissioner for the Environment


PO Box 10-241

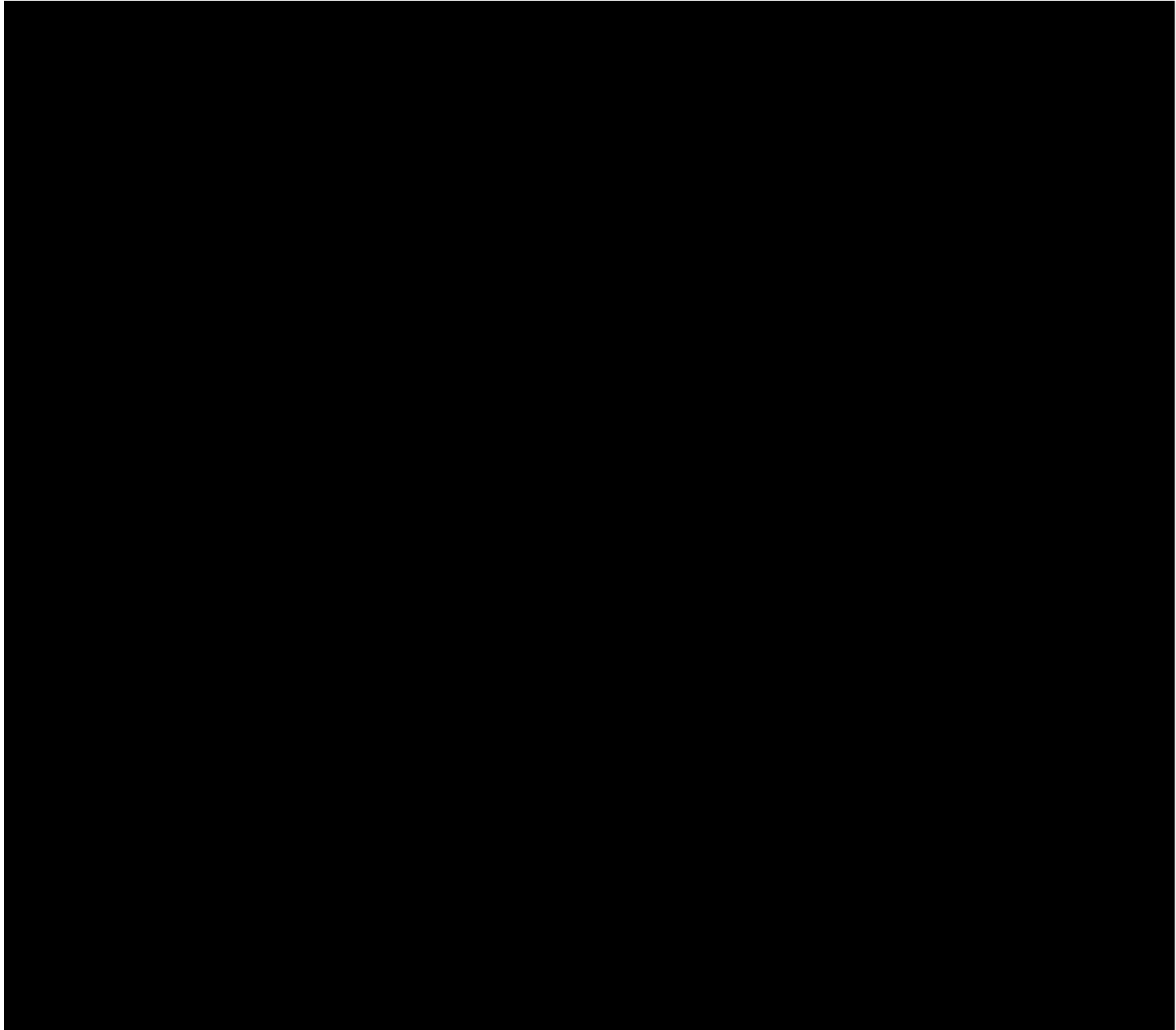
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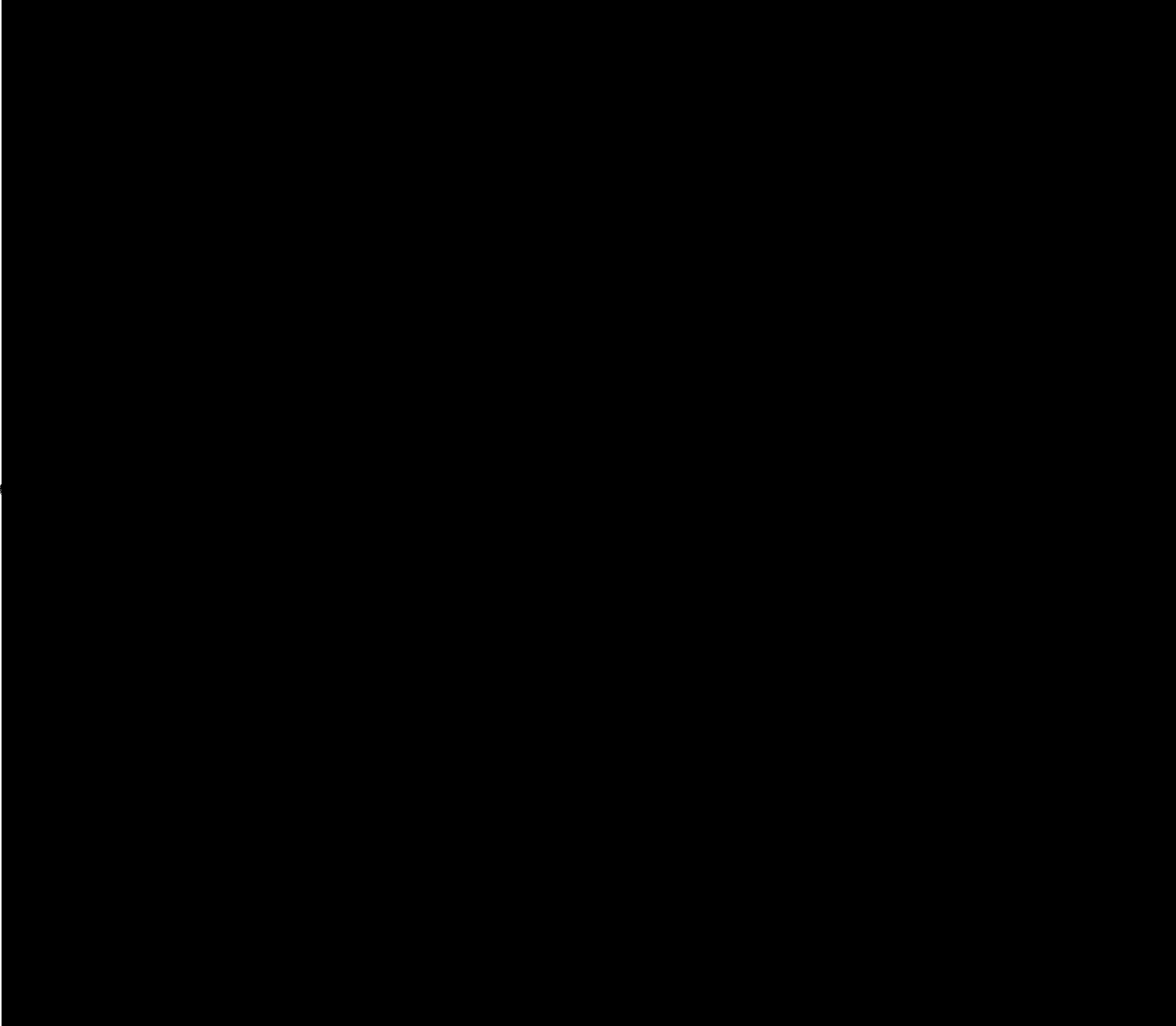
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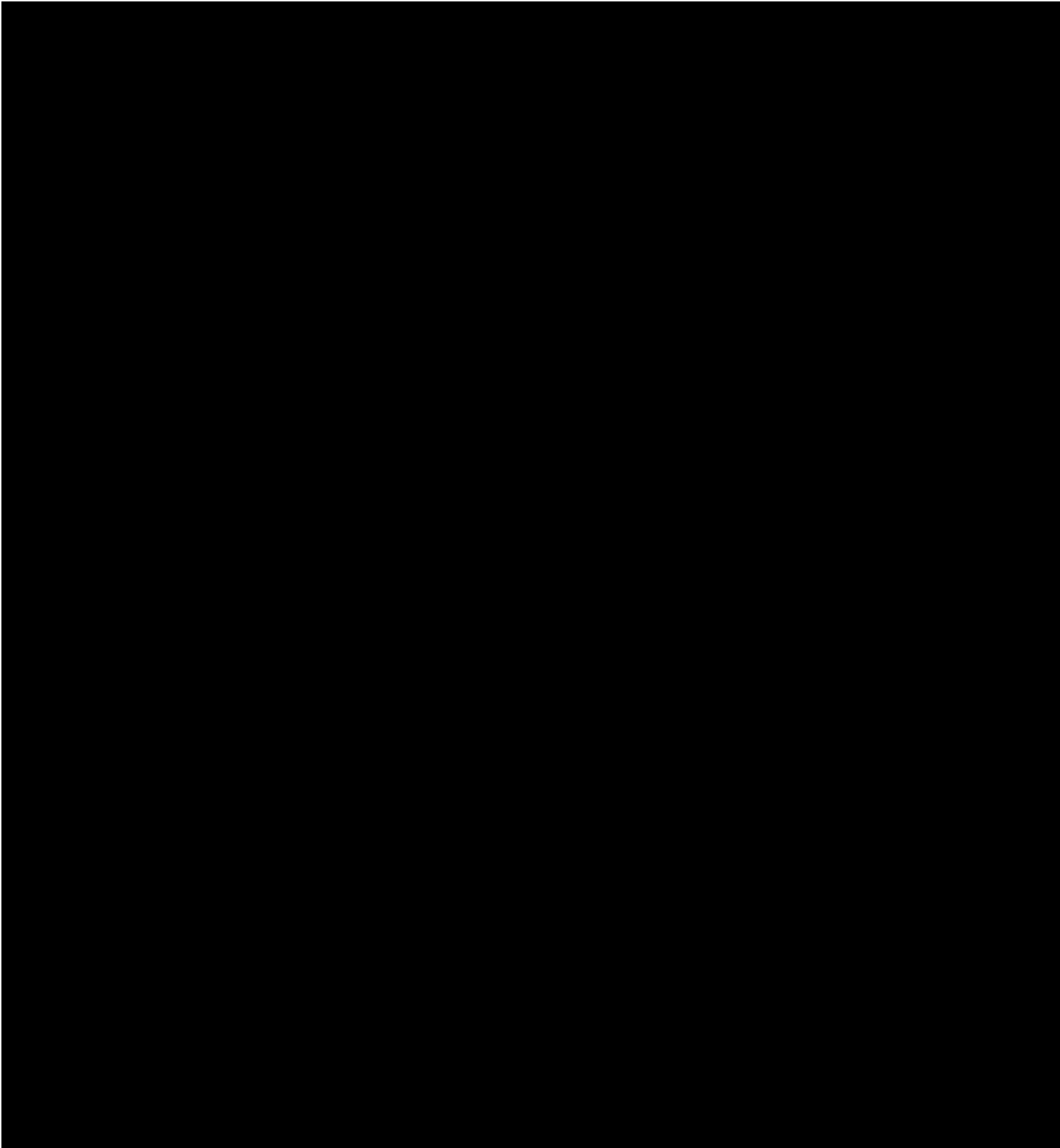
@pce.parliament.nz















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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]  
**Sent:** Wednesday, 11 May 2011 12:07 p.m.  
**To:** [redacted]  
**Subject:** RE: PCE Report on 1080 and alternatives for content review by the Department of Conservation

Hi [redacted]

I'm just going through the comments you supplied now, and they are very helpful.

I note in section 5.1 you refer to data that the Department has that supports the statement that 1080 can achieve effective control of stoats through secondary poisoning. Do you have any references or published data that we could cite to strengthen that point? For me this a real advantage of 1080 for ecosystem management, and the stronger this point can be the better!

Kind regards

[redacted]

[redacted]

[redacted]

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**Sent:** Tuesday, 10 May 2011 3:18 p.m.

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**From:** [redacted] [mailto:[redacted]@pce.parliament.nz]

**Sent:** Friday, 6 May 2011 5:44 p.m.

To: [REDACTED]

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**Cc:** [redacted]

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