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*1. CURRENT STATUS SUMMARY..... 1*

*2.*

***1. CURRENT STATUS SUMMARY***

As required in Title 40, Code of Federal Regula

## Regulatory Requirement Cross-Reference

**Regulatory  
Citation**

**Requirement (paraphrased)**

**Where Addressed  
in this Report**

### **3.1. GROUNDWATER OBSERVATIONS**











## **Tables**

<b>Sampling Event</b>	<b>Sampling Event Dates</b>	<b>TOC Elevation Depth to Water (feet btoc)</b>	<b>513.63 Water Level (msl)</b>	<b>TOC Elevation</b>	<b>526.86</b>	<b>TOC Elevation</b>	<b>522.27</b>	<b>TOC Elevation</b>	<b>507.84</b>
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TABLE 3  
Groundwater Analytical Results Summary  
CPS Energy - Calaveras Power Station  
Evaporation Pond

Constituents	Unit
A55B(55B(u)x III1( 6u).Det 6u)ect 6u55B(55B(u)t 6u)o(55B3(55B(u)TJ/TT2 1 T9 -262346 TD2204 Tc0 TwBpor)53)-4n)-1329rg/l3 866bnTT	



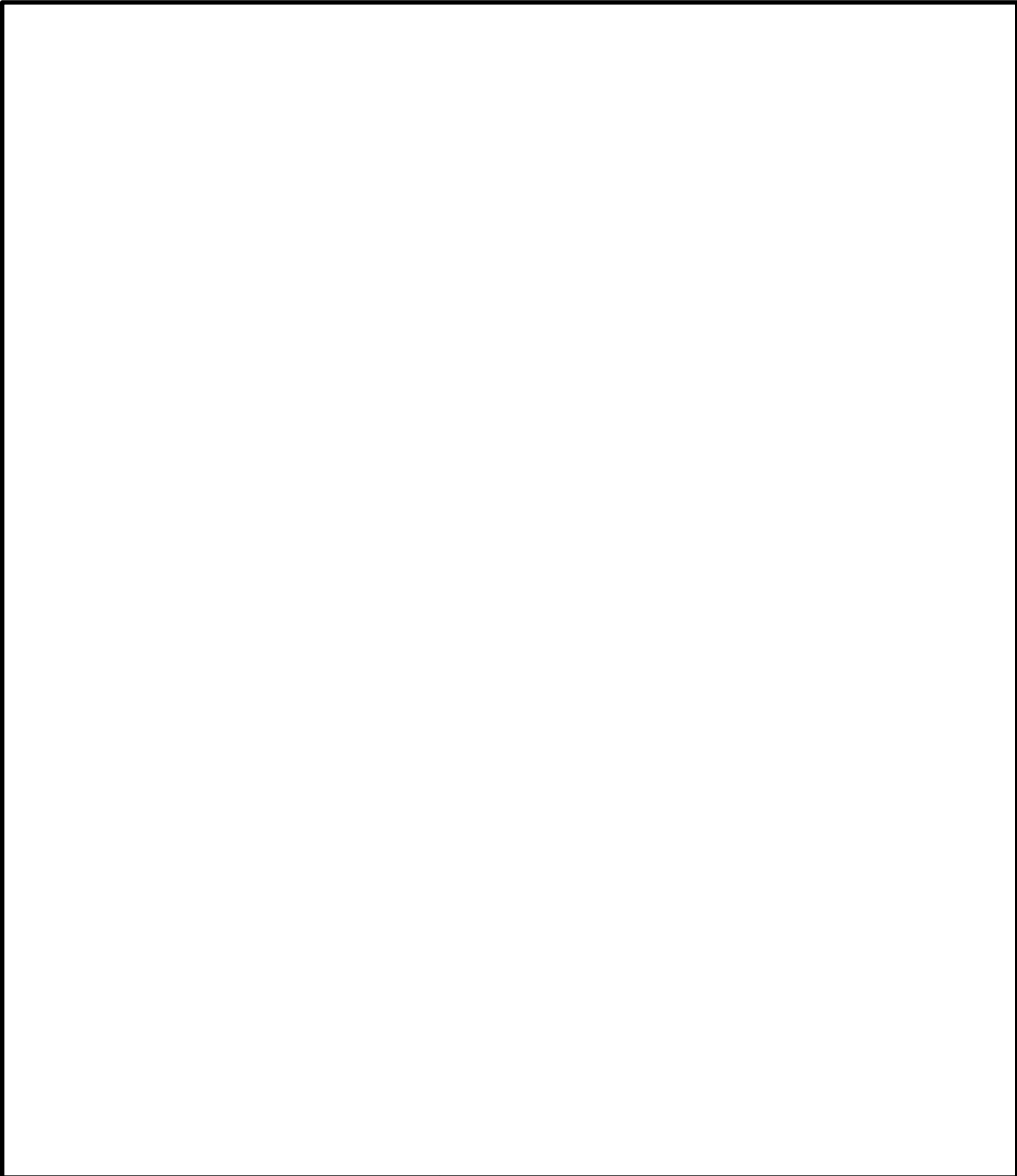




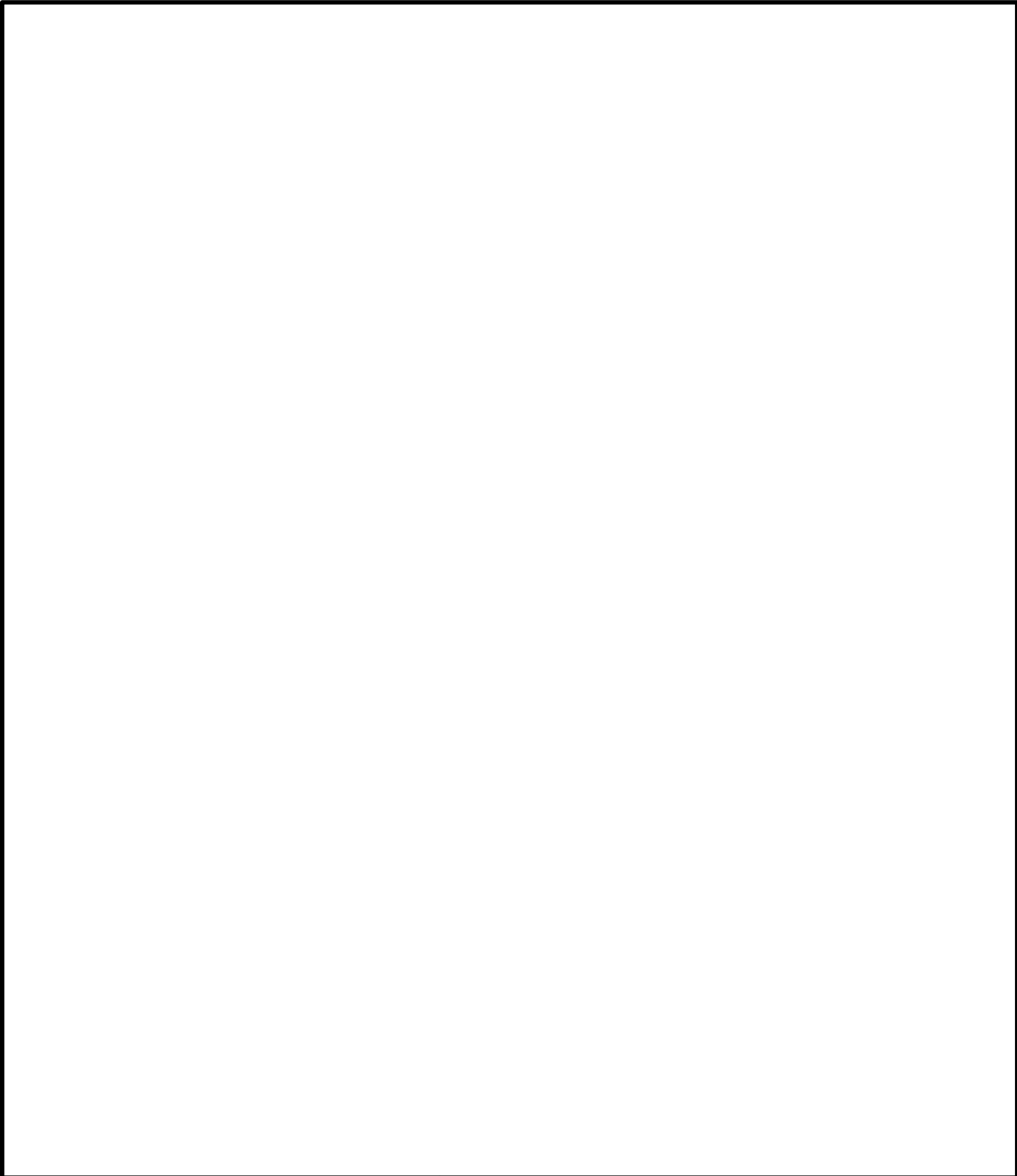








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**2021 Water Level Study Report**

*Appendix A*





*Annual Groundwater Monitoring and Corrective Action Reports* have been completed for each of















TABLE 1  
 Groundwater Elevations Summary - CCR Unit Wells  
 CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-45 Upgradient	FAL	531.46	1	12/6/2016	46.83	484.63
JKS-45 Upgradient	FAL	531.46	2	2/21/2017	46.64	484.82
JKS-45 Upgradient	FAL	531.46	3	3/28/2017	46.52	484.94

TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)

TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

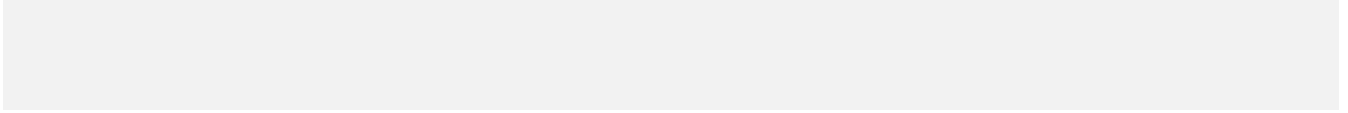




TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date
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TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water
------	----------	----------------------------	--------------	------	----------------

TABLE 1  
 Groundwater Elevations Summary - CCR Unit Wells  
 CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
JKS-61 Downgradient	EP	505.51	1	12/6/2016	23.95	481.56
JKS-61 Downgradient	EP	505.51	2	2/21/2017	23.31	482.20
JKS-61 Downgradient	EP	505.51	3	3/28/2017	23.10	482.41
JKS-61 Downgradient	EP	505.51	4	5/2/2017	22.85	482.66
JKS-61 Downgradient	EP	505.51	5	6/20/2017	22.05	483.46
JKS-61 Downgradient	EP	505.51	6	7/25/2017	23.50	482.01
JKS-61 Downgradient	EP	505.51	7	8/29/2017	23.60	481.91
JKS-61 Downgradient	EP	505.51	8	10/10/2017	23.97	481.54
JKS-61 Downgradient	EP	505.51	9	4/4/2018	23.08	482.43
JKS-61 Downgradient	EP	505.51	10	10/30/2018	23.94	481.57
JKS-61 Downgradient	EP	505.51	11	4/9/2019	22.97	482.54
JKS-61 Downgradient	EP	505.51	12	10/22/2019	24.20	481.31
JKS-61 Downgradient	EP	505.51	13	4/23/2020	23.74	481.77
JKS-61 Downgradient	EP	505.51	14	10/15/2020	24.60	480.91

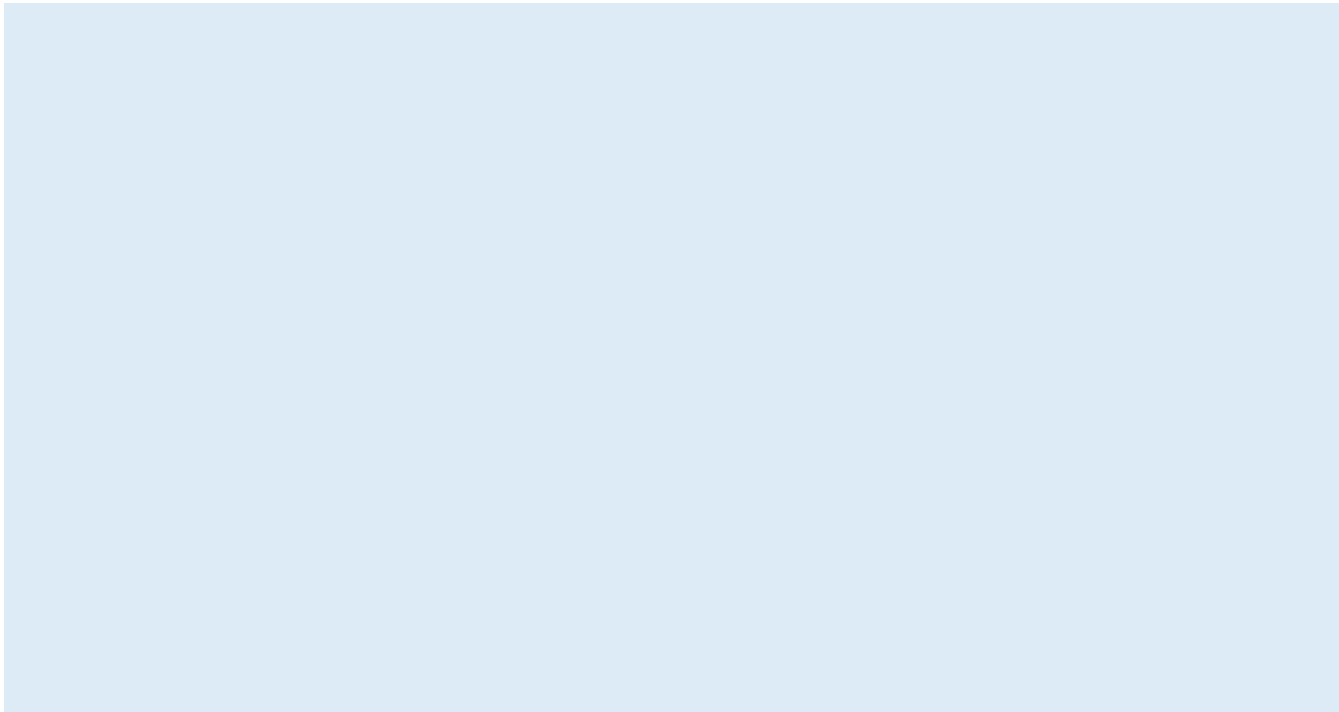






TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water Level (ft msl)
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TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water
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TABLE 1  
Groundwater Elevations Summary - CCR Unit Wells  
CPS Energy - Calaveras Power Station

Well	CCR Unit	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Surface Water Level (ft msl)
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ervation Wells  
Wells

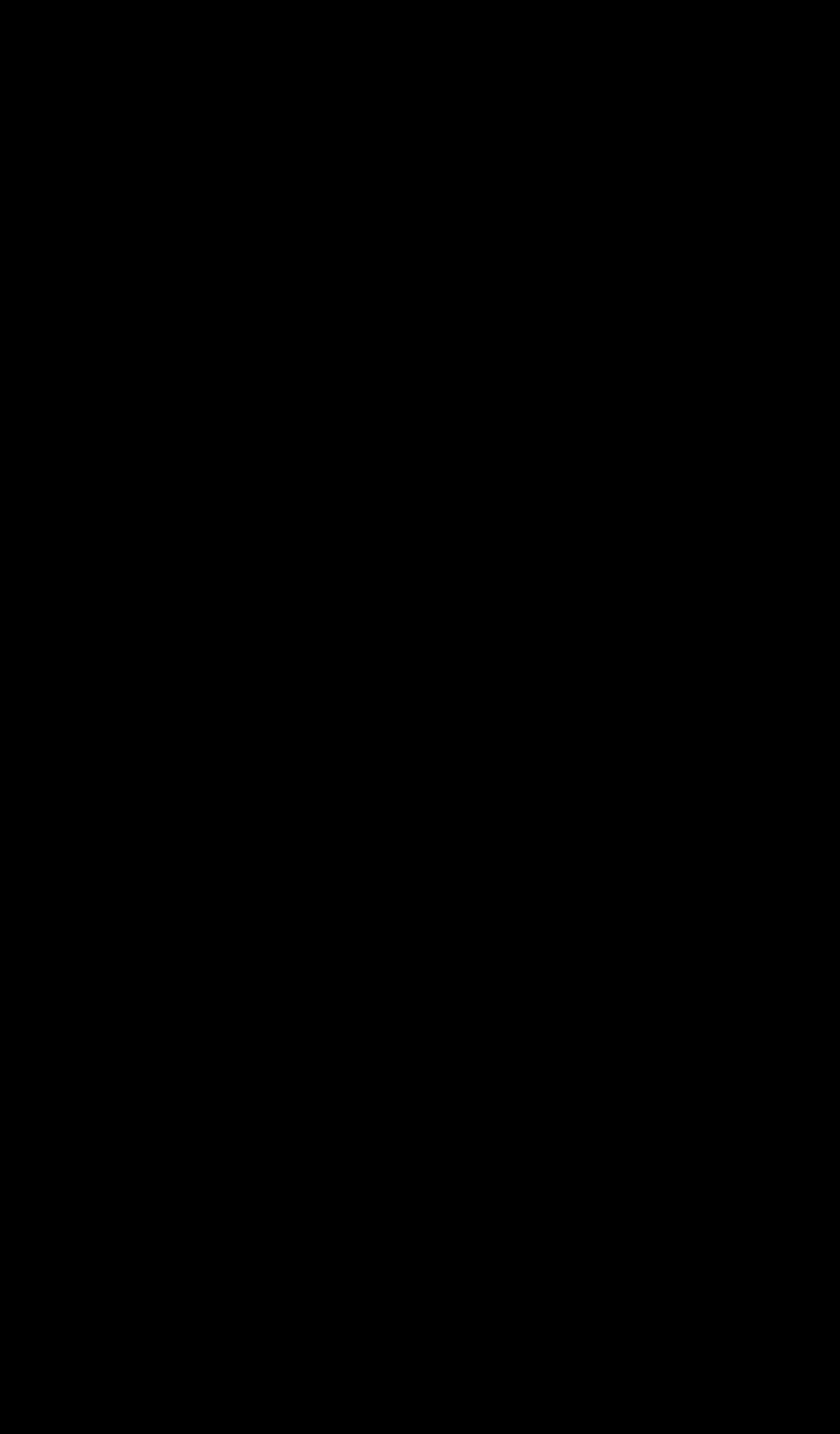
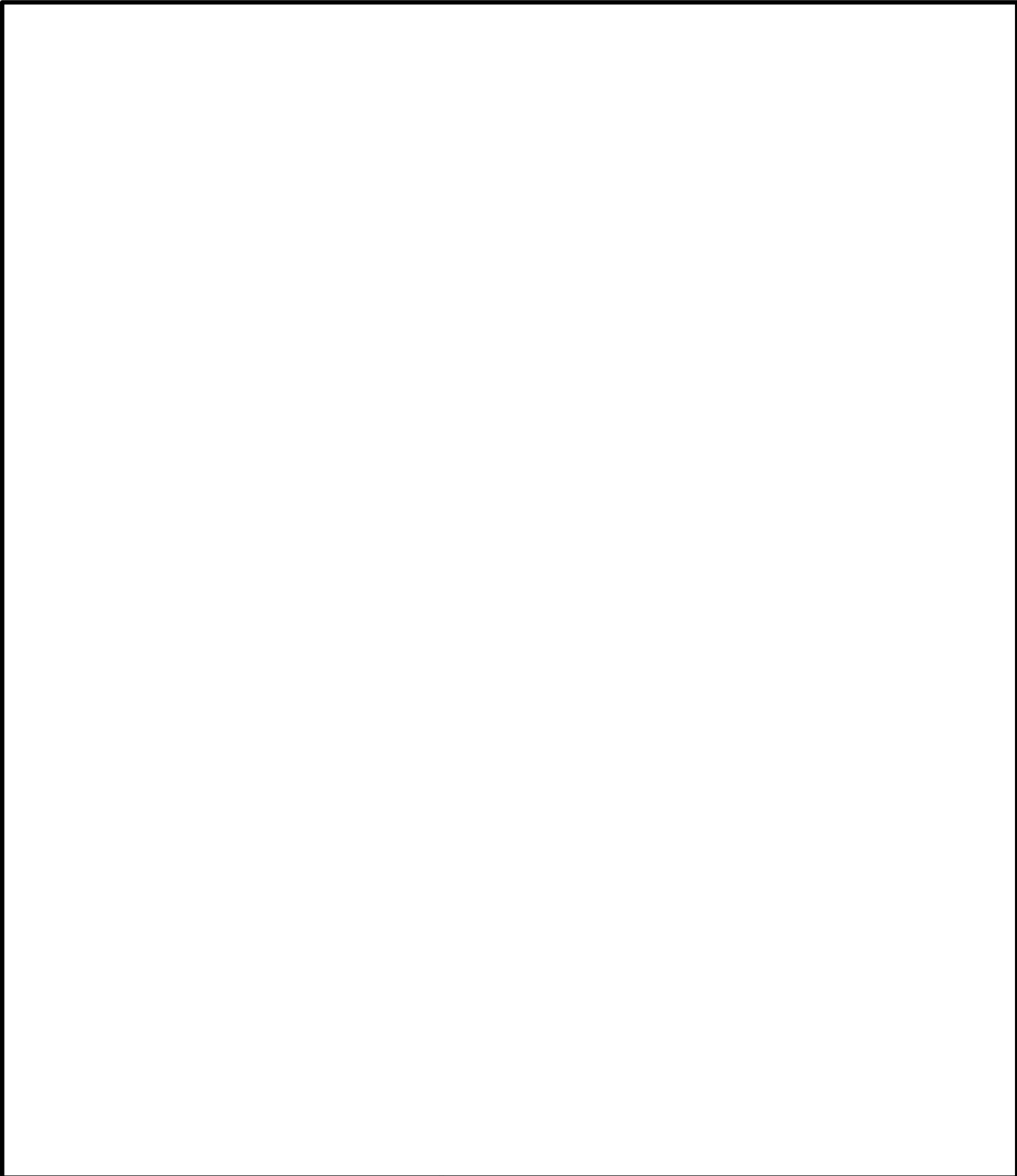


TABLE G  
Groundwater Elevations Summary - Non-CCR Unit Observation Wells  
CPS Energy - Calaveras Power Station

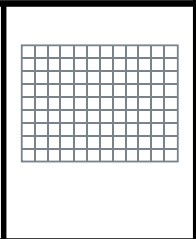
Well	Well Elevation (ft msl)	Event No.	Date	Depth to Water (ft btoc)	Water No. (ft msl)
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## FIGURES

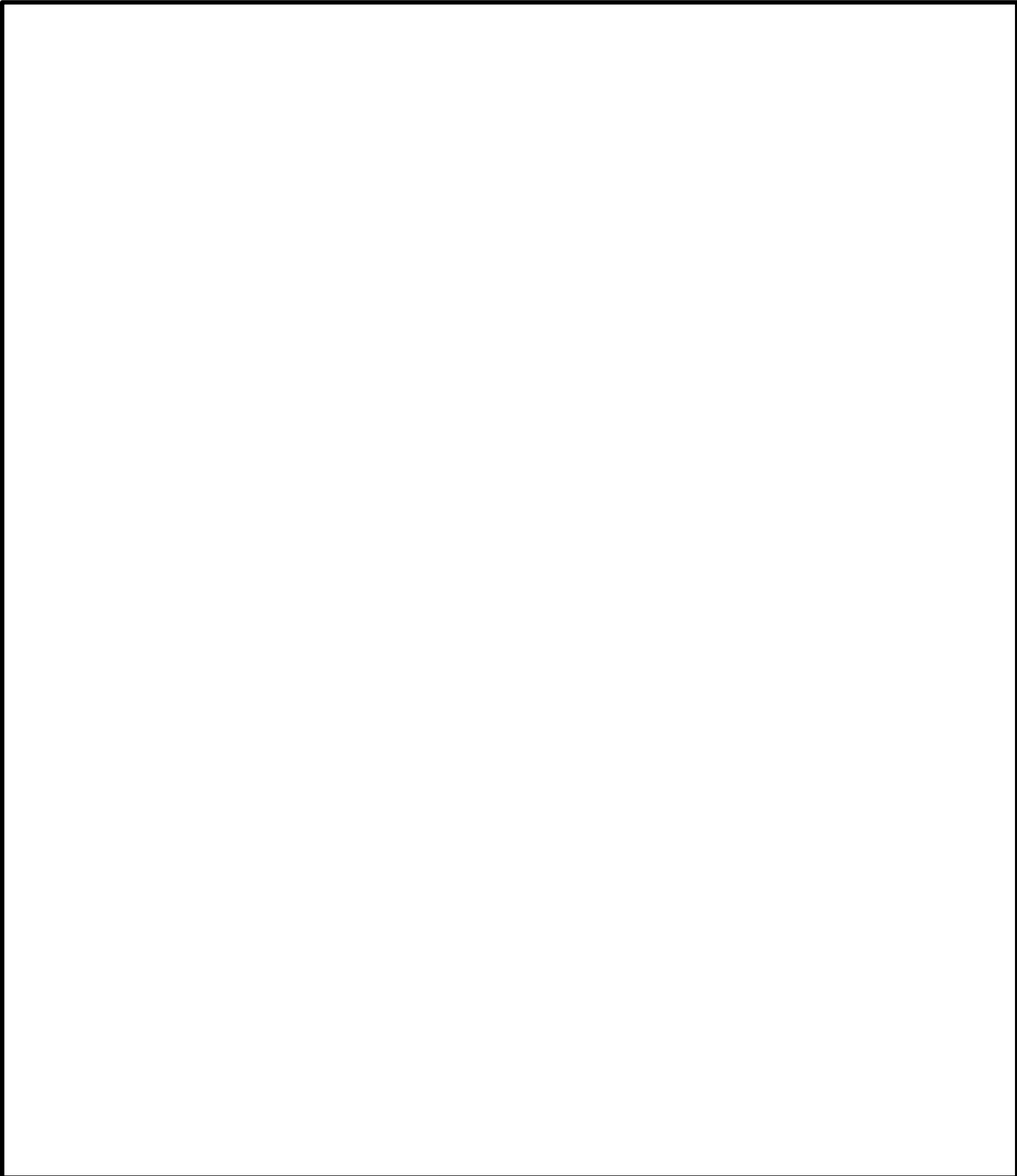


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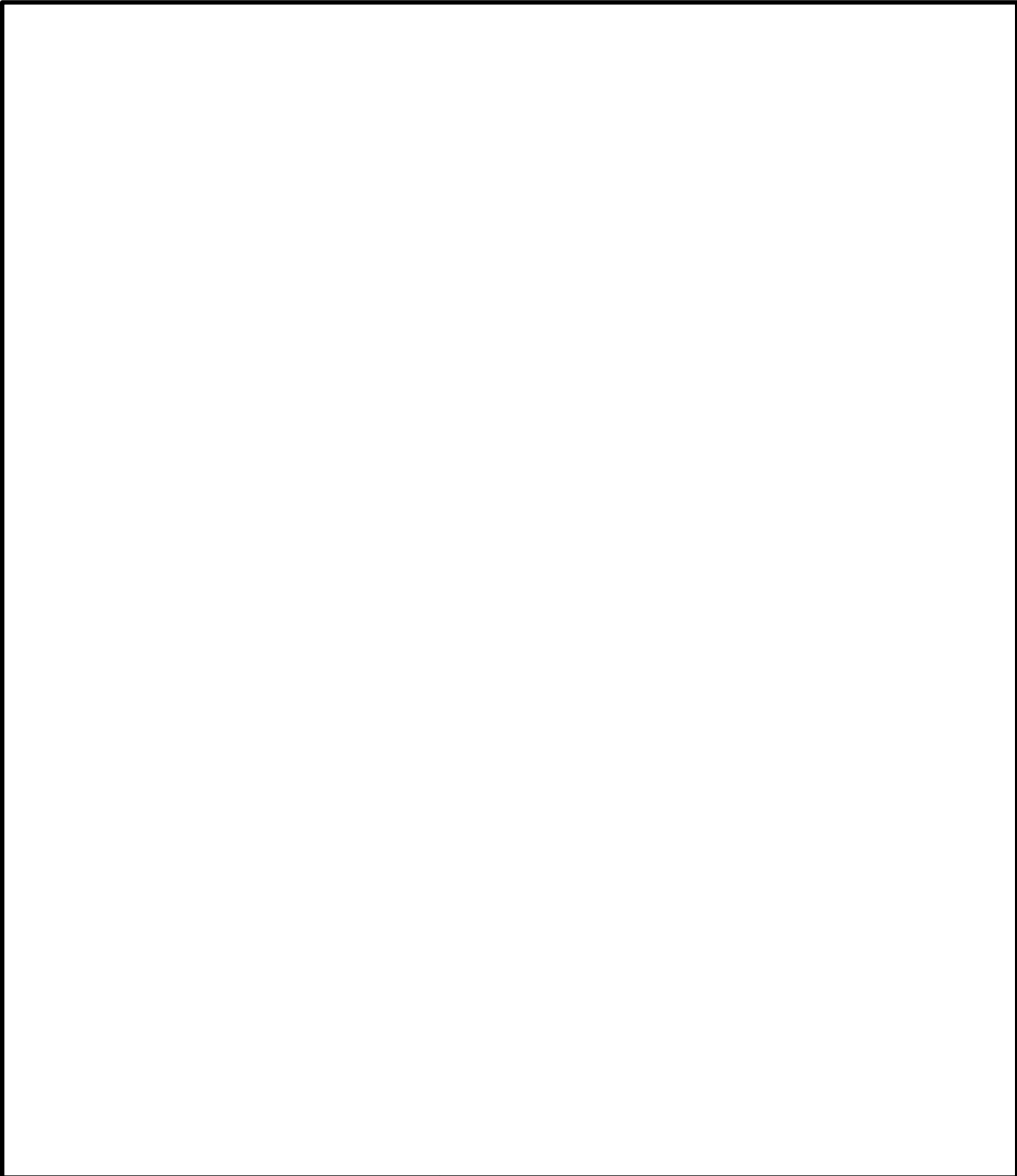
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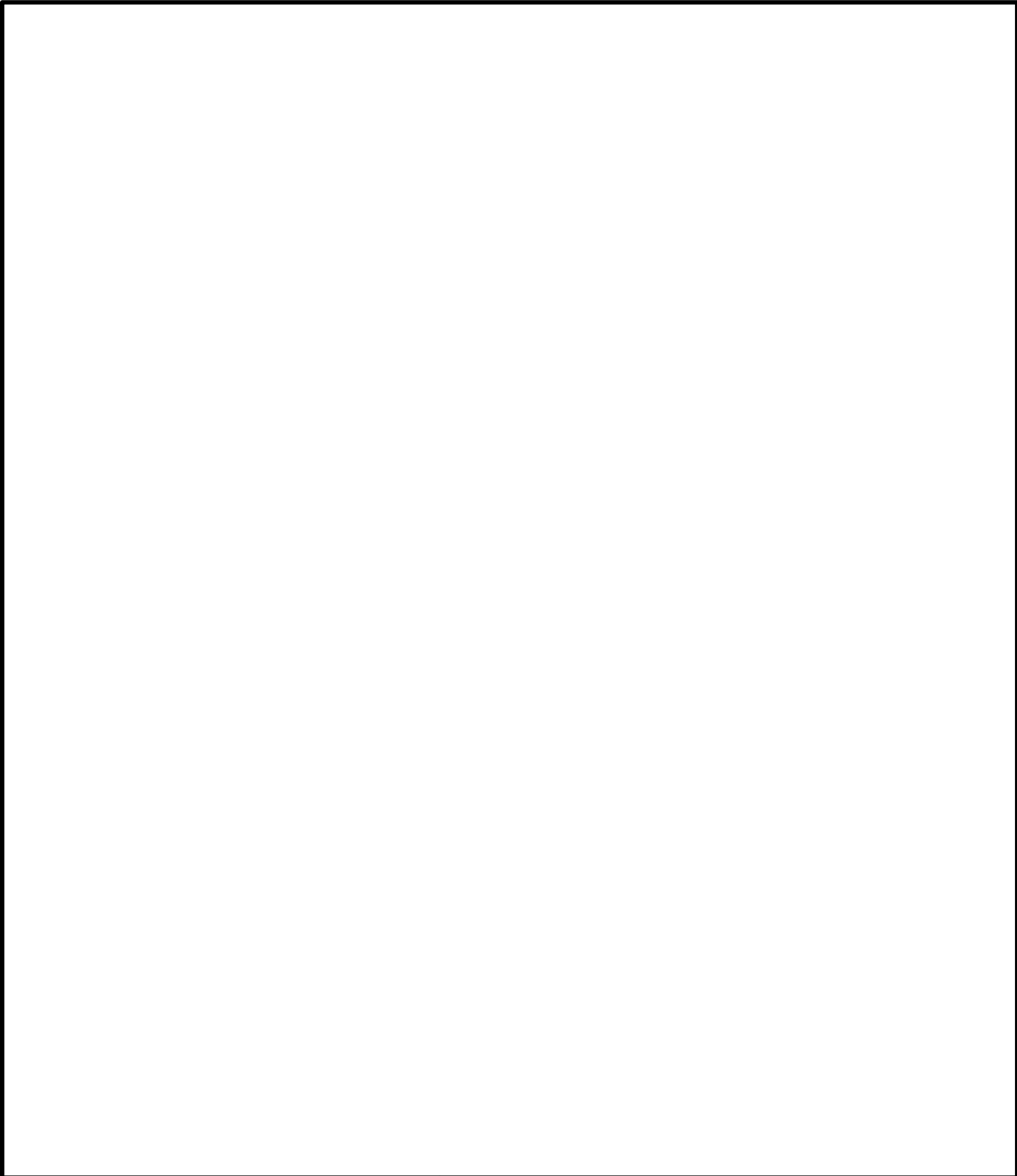




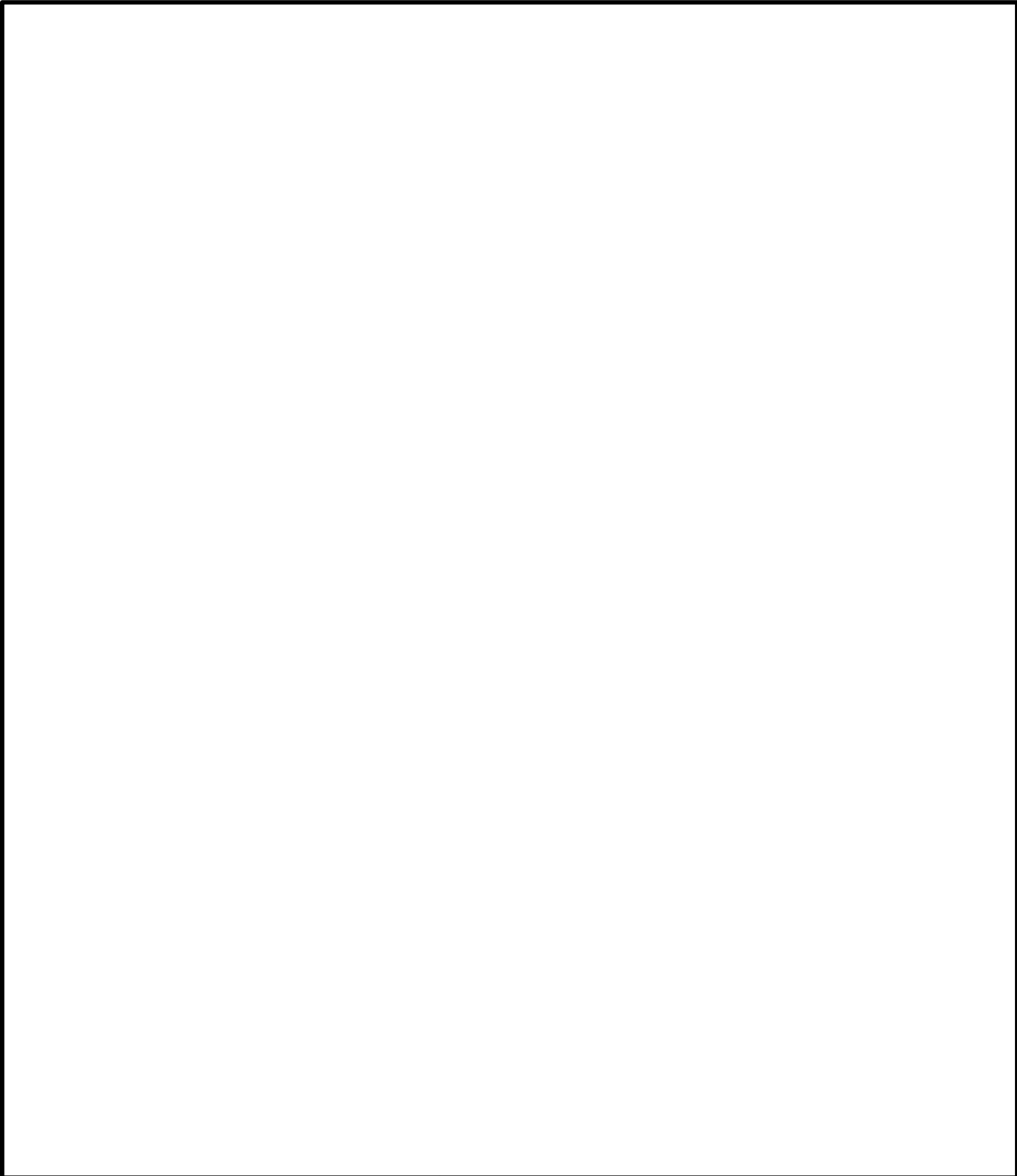
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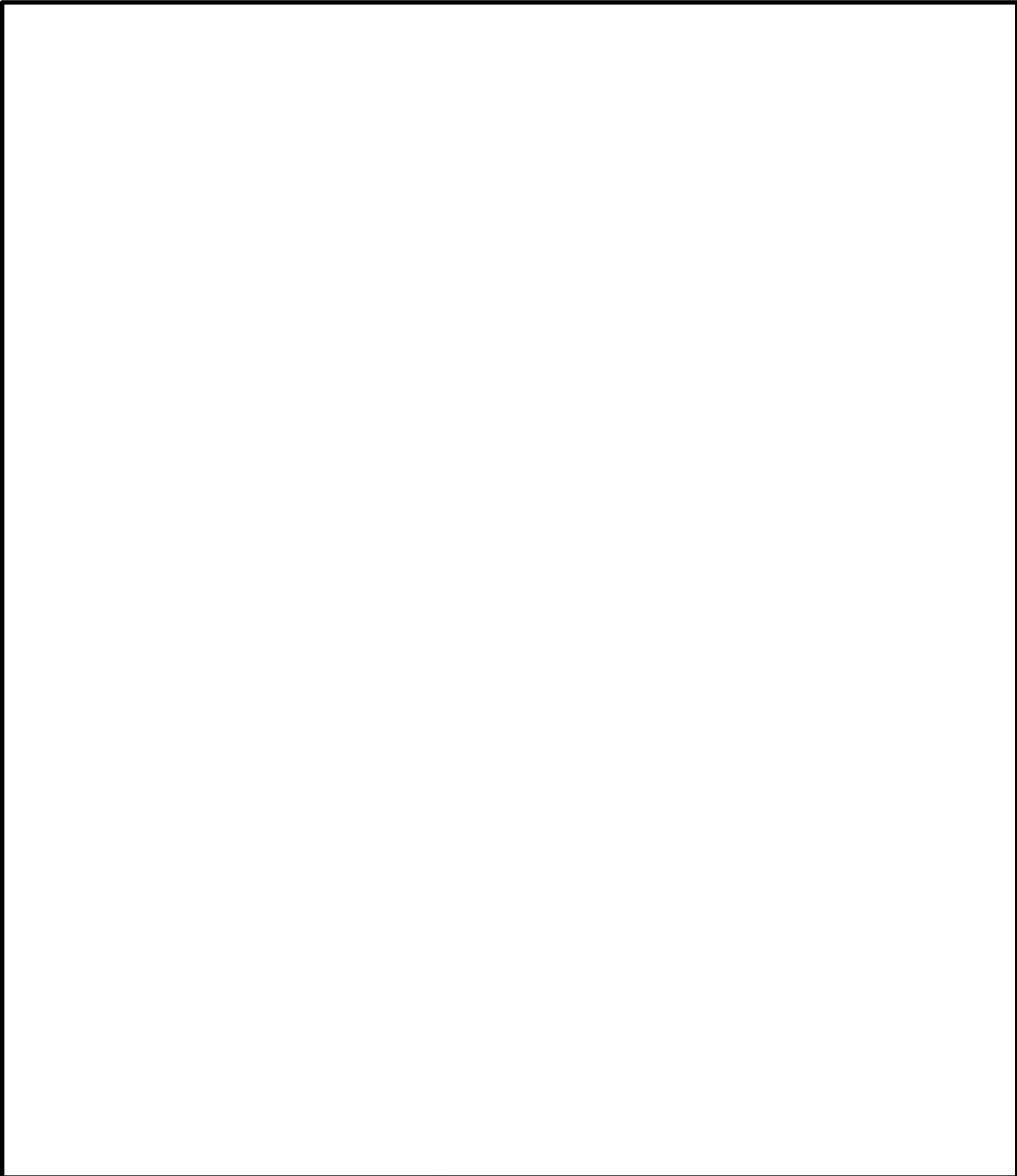
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E1 E2 E4 E5 E6 E7 E8

E9

E10

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E13

E14

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E16

E17

E19



**Laboratory Data Packages**  
*Appendix B*

*(Data Packages Available Upon Request)*

## **Statistical Analysis Tables and Figures**

### *Appendix C*

Appendix C Table 1  
Kruskal Wallis Test Comparisons of Upgradient Wells  
Calaveras Power Station  
Evaporation Pond

Analyte	N	N Detect	Percent
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Appendix C Table 3  
 Potential Outliers in Upgradient Wells  
 Calaveras Power Station  
 Evaporation Pond

Well	Sample	Date	Analyte	Units	Detect	Concentration	UPL type	Distribution	Statistical Outlier	Visual Outlier	Normal Outlier	Log Statistical Outlier	Log Visual Outlier	Lognormal Outlier	Statistical and Visual Outlier	Final Outlier Decision	Notes
JKS 47	JKS 47565343 007	10/11/2017	Boron	mg/L	TRUE	1.02	Intrawell	Normal		X			X				
JKS 47	JKS 47002	10/23/2019	Boron	mg/L	TRUE	1.05	Intrawell	Normal		X			X				
JKS 47	JKS 47 20201021 CCR	10/21/2020	Boron	mg/L	TRUE	0.904	Intrawell	Normal		X			X				
JKS 63	63R001	08/20/2019	Boron	mg/L	TRUE	2.03	Intrawell	Lognormal	X	X	X	X	X	X		0	
JKS 64	JKS 64549681 009	03/29/2017	Boron	mg/L	TRUE	1.14	Intrawell	Lognormal	X	X	X	X	X	X		0	
JKS 64	JKS 64551008	03/29/2017	Boron	mg/L	TRUE	0.962	Intrawell	Lognormal		X			X				

JKS 47 1 Tf .306 JKS 63 TD (64549681) Tj / TT3 1

**Appendix C Table 4**  
**Mann Kendall Test for Trends in Upgradient Wells**  
**Calaveras Power Station**  
**Evaporation Pond**

Analyte	UPL Type	Well	N	Num Detects	Percent Detect	p Value	Test for Trends	Conclusion
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x010

Appendix C Table 5  
Calculated UPLs for Upgradient Datasets  
Calaveras Power Station  
Evaporation Pond

Analyte	UPL Type	Trend	Well	N	Num Detects	Percent Detects	LPL	UPL	Units	ND adjustment	Transforma tion
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**Appendix 7 – Figure 1**  
**Unit: Evaporation Pond**







**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**

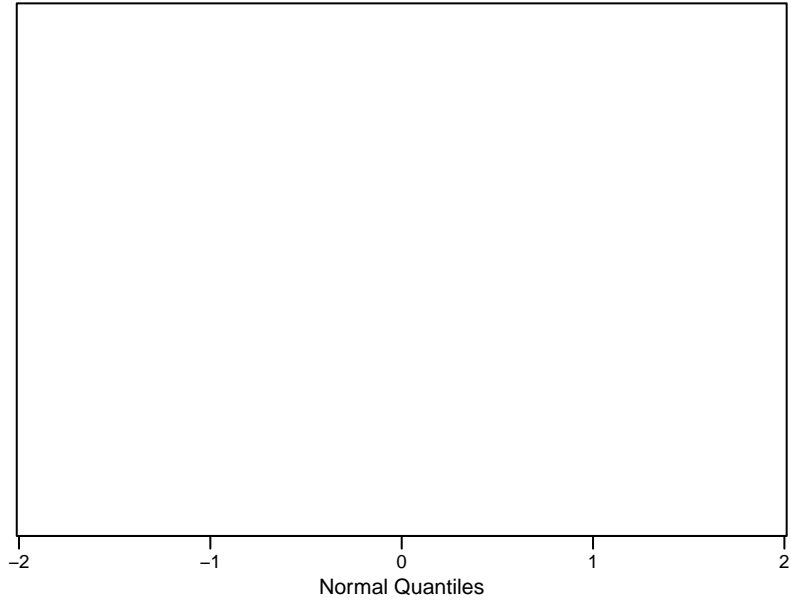


**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**

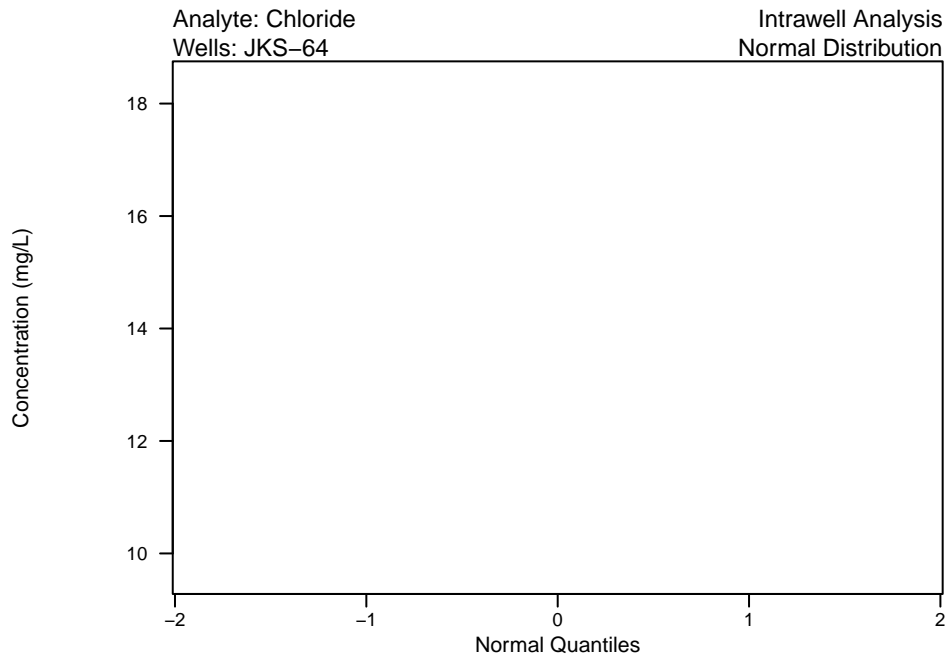
Analyte: Chloride  
Wells: JKS-47

Intrawell Analysis  
Normal Distribution

Concentration (mg/L)



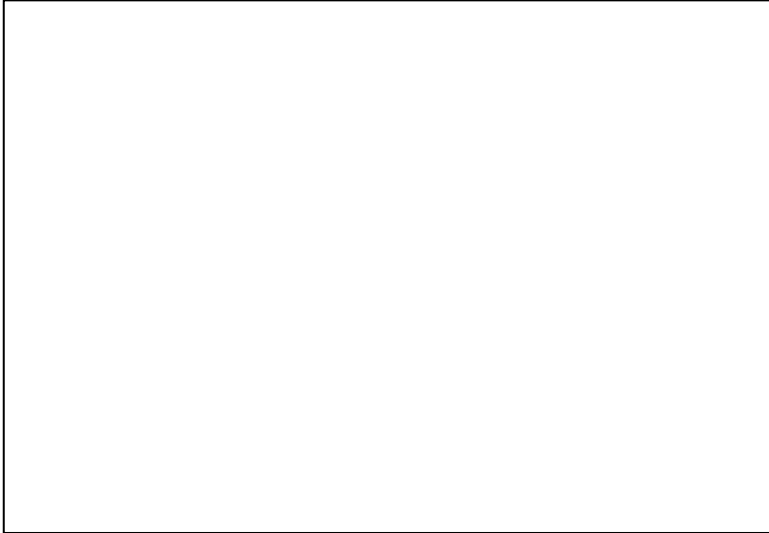
**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**



**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**

Analyte: pH  
Wells: JKS-47

Intrawell Analysis  
NDD Distribution

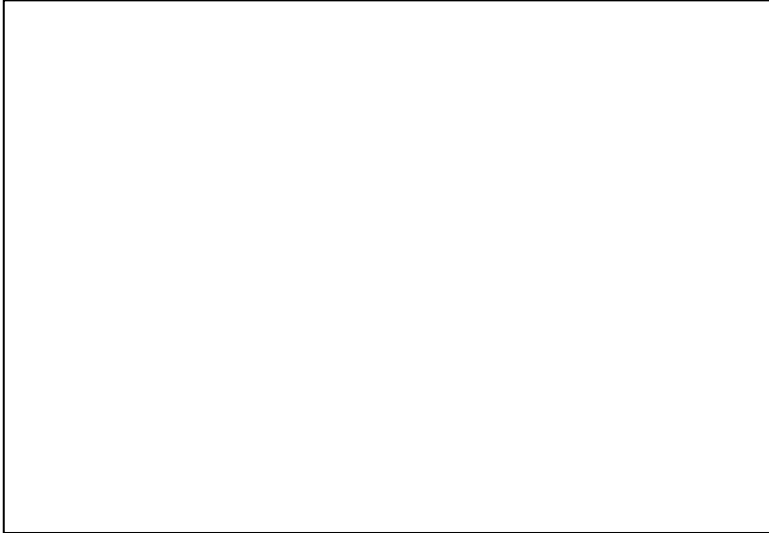




**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**

Analyte: pH  
Wells: JKS-64

Intrawell Analysis  
NDD Distribution





**Appendix 7 – Figure 2**  
**Unit: Evaporation Pond**  
**QQ Plots of Upgradient Wells**

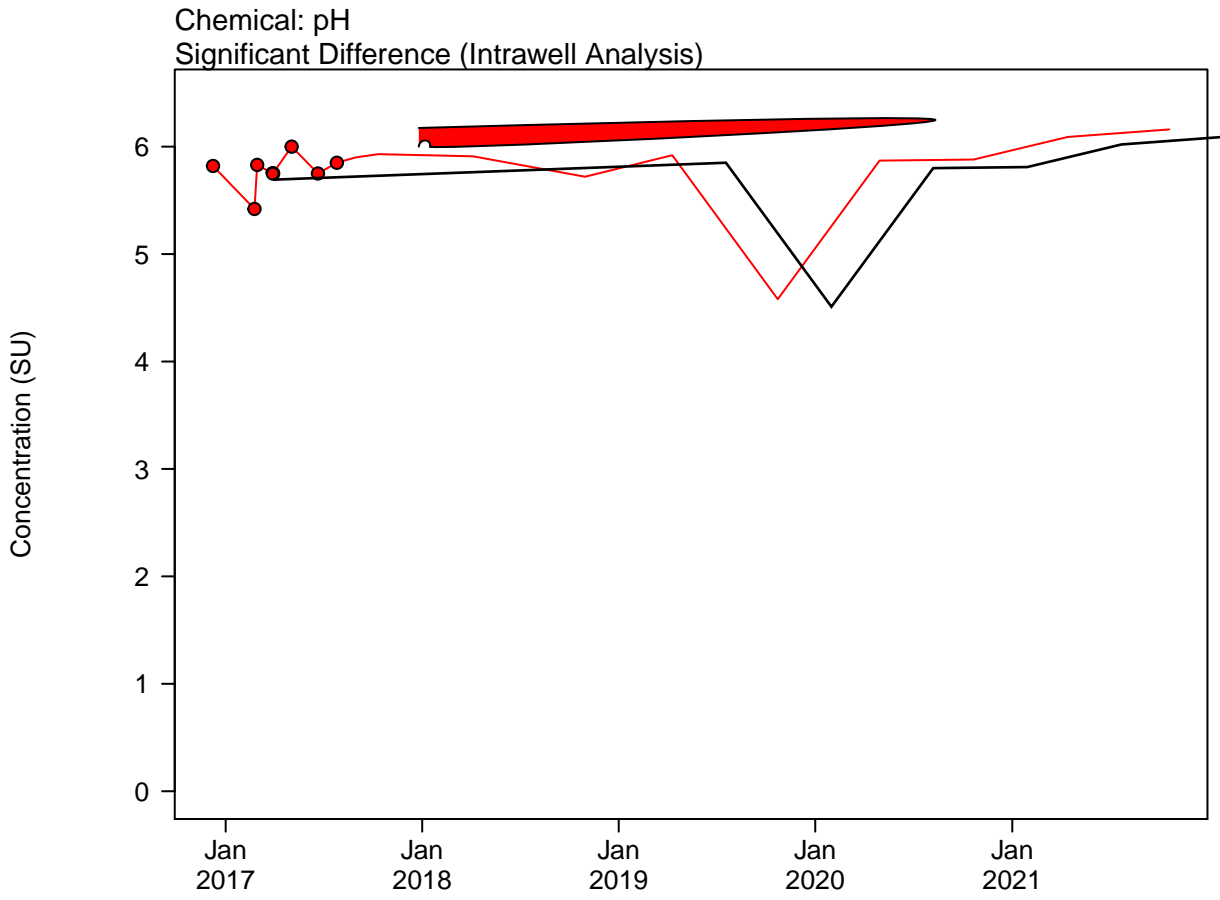






**Appendix 7 – Figure 3**  
**Unit: Evaporation Pond**  
**Timeseries of Upgradient Wells**

Appendix 7 – Figure 3  
Unit: Evaporation Pond  
Timeseries of Upgradient Wells

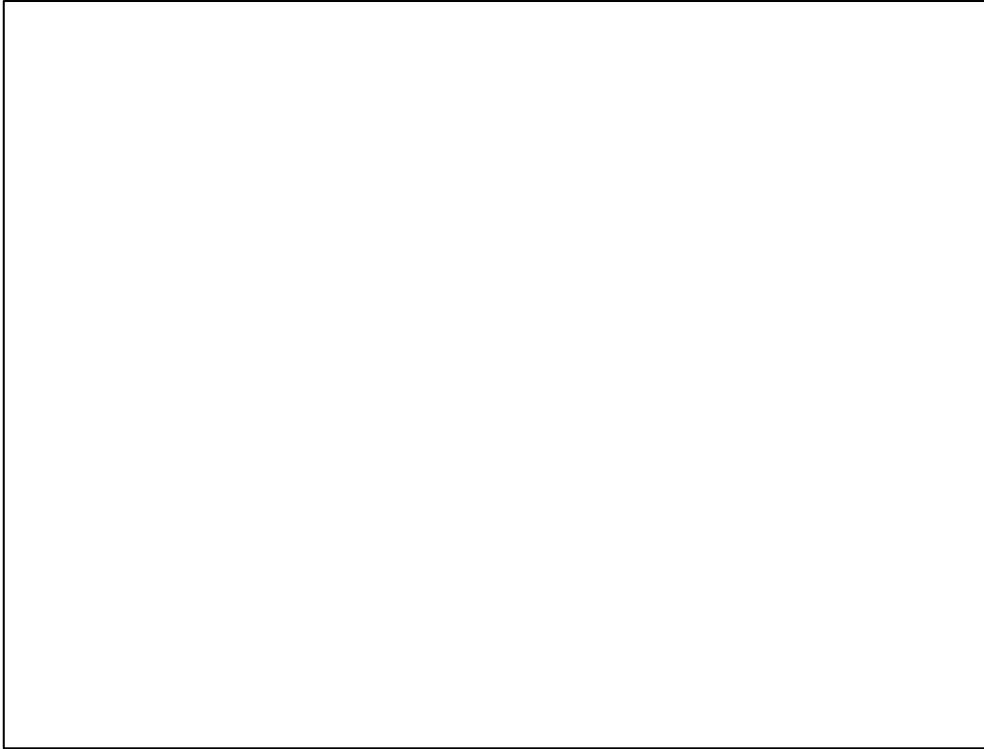


**Appendix 7 – Figure 3**  
**Unit: Evaporation Pond**  
**Timeseries of Upgradient Wells**



**Appendix 7 – Figure 4**  
**Unit: Evaporation Pond**  
**Trend Analysis of Downgradient Wells with Exceedances**

Chemical: Boron



**Appendix 7 – Figure 4**  
**Unit: Evaporation Pond**  
**Trend Analysis of Downgradient Wells with Exceedances 0.0mg/L–40.75mg/L 0.0001–0.0010**



**ERM**





**ATTACHMENT 1**

**APRIL AND AUGUST 2021 GROUNDWATER  
SAMPLE RESULTS**







Constituent	Units	2020 LPL - BAP	2020 UPL - BAP	BAP	BAP	BAP	BAP	BAP
				Downgradient JKS-48 4/13/2021 N	Downgradient JKS-50R 4/13/2021 N	Downgradient JKS-52 4/13/2021 N	Downgradient JKS-55 4/13/2021 N	Downgradient JKS-56 4/13/2021 N
Boron	mg/L	--	2.65	2.19	5.18	2.51	0.762	3.16
Calcium	mg/L	--	387	140	139	209	146	111
Chloride	mg/L	--	607	477	110	470	440	176
Fluoride	mg/L	--						

Constituent	Units	2020 LPL - SRH	2020 UPL - SRH	SRH Pond Downgradient JKS-52 4/13/2021 N	SRH Pond Downgradient JKS-53 4/13/2021 N	SRH Pond Downgradient JKS-54 4/13/2021 N
Boron	m					