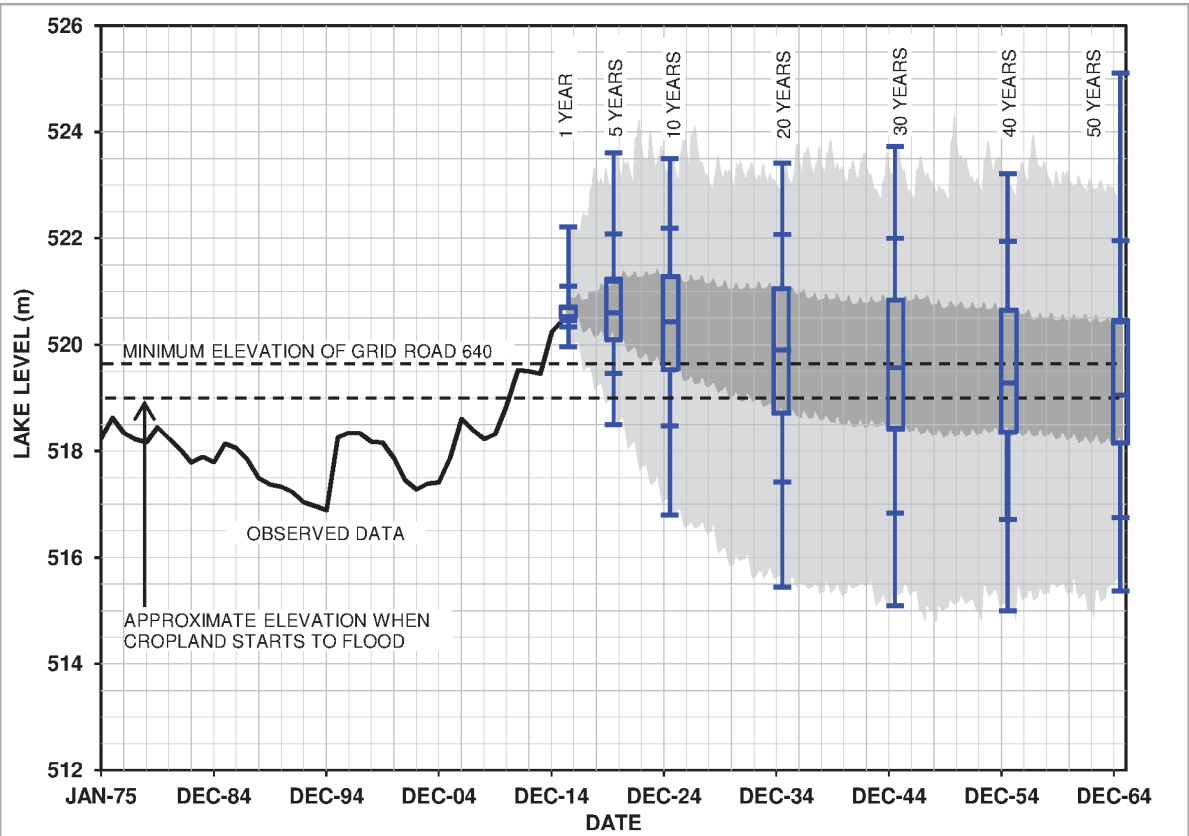
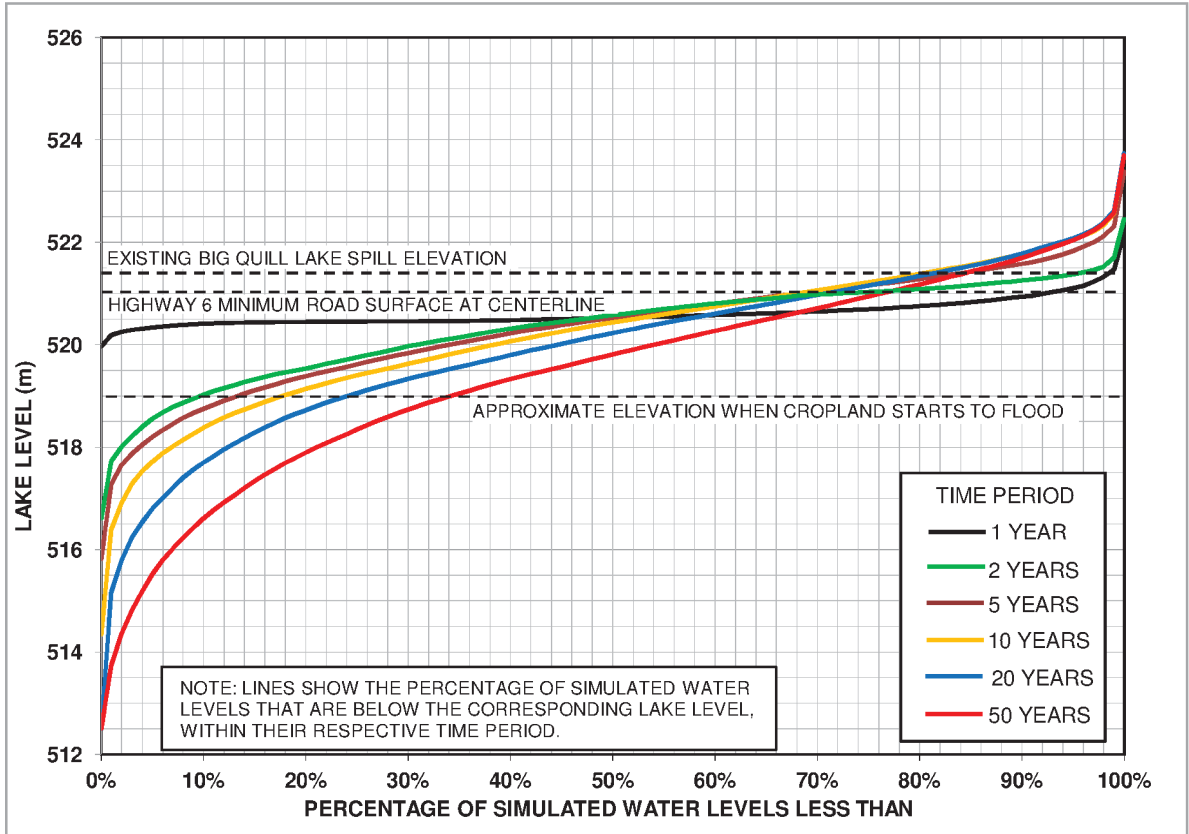


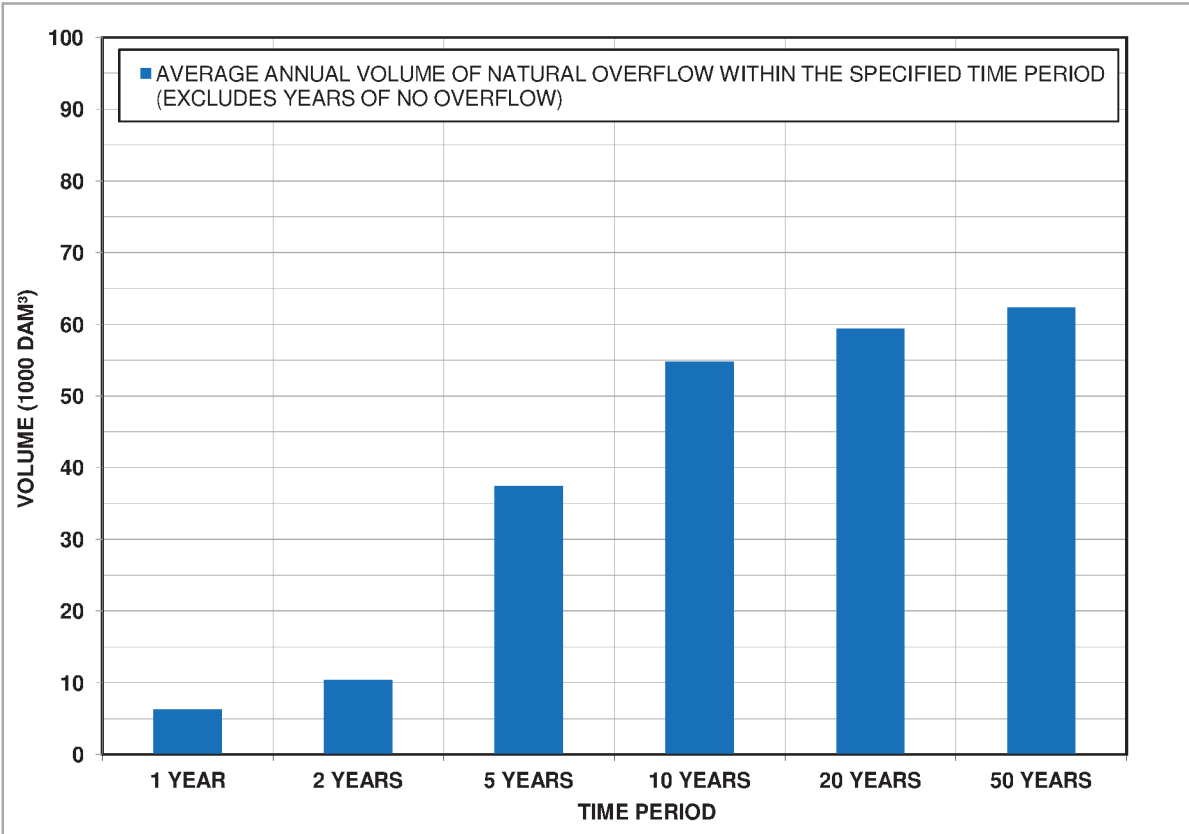
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



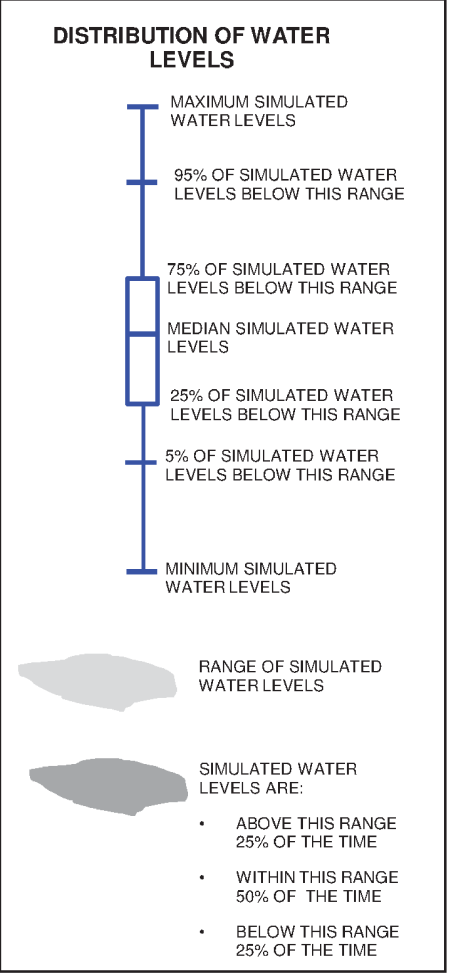
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE



C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE




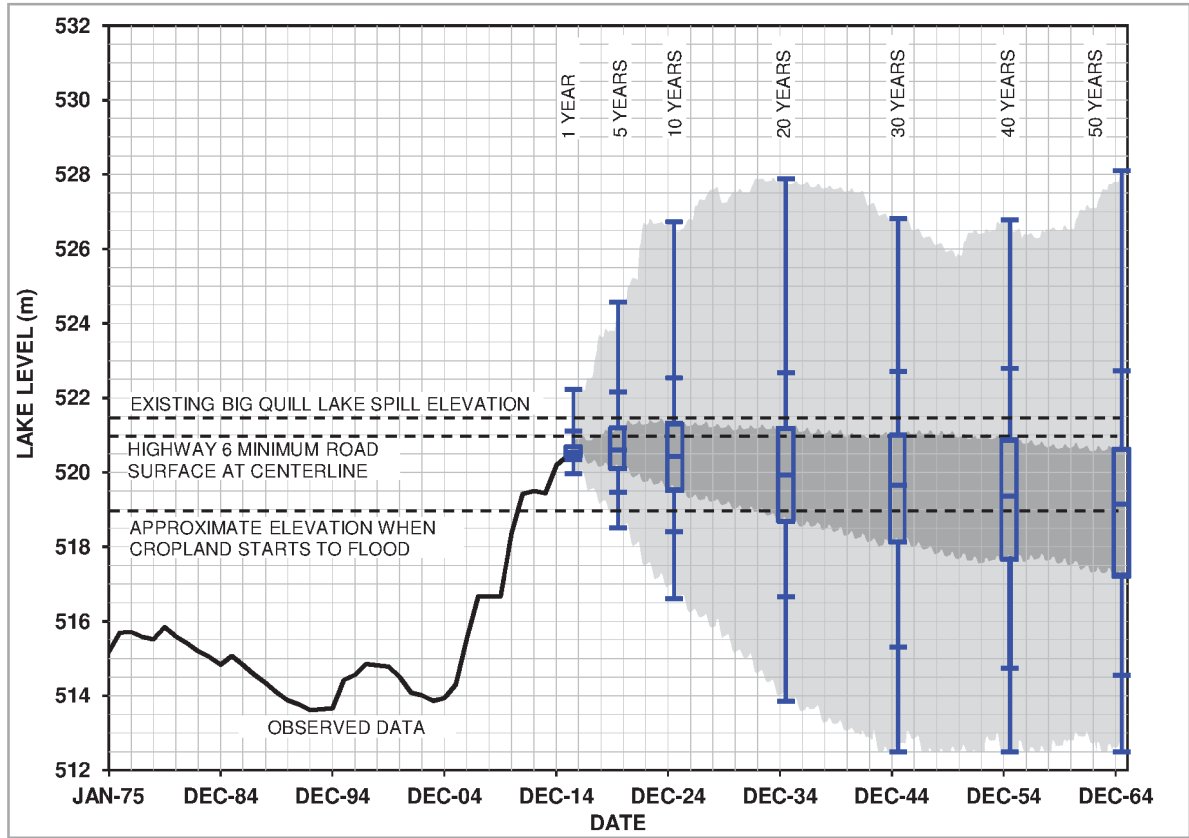
D) SIMULATED AVERAGE ANNUAL VOLUMES



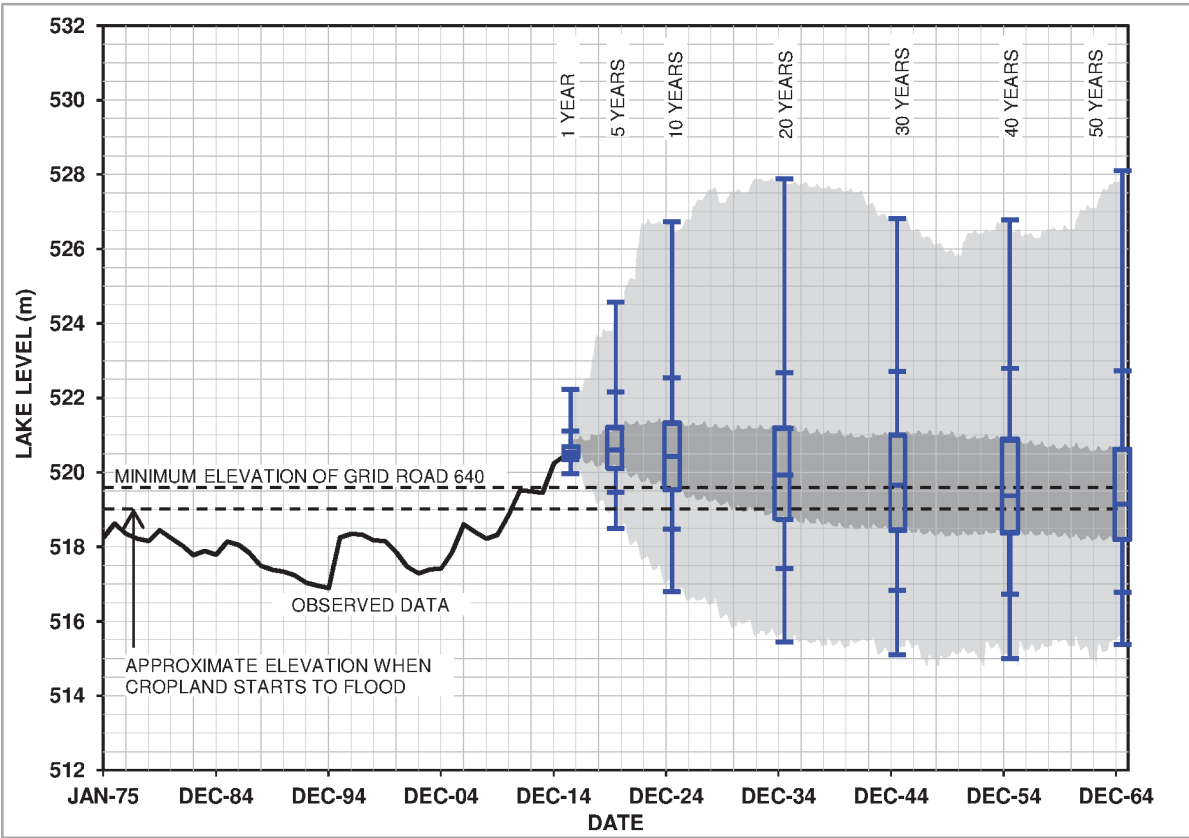
NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

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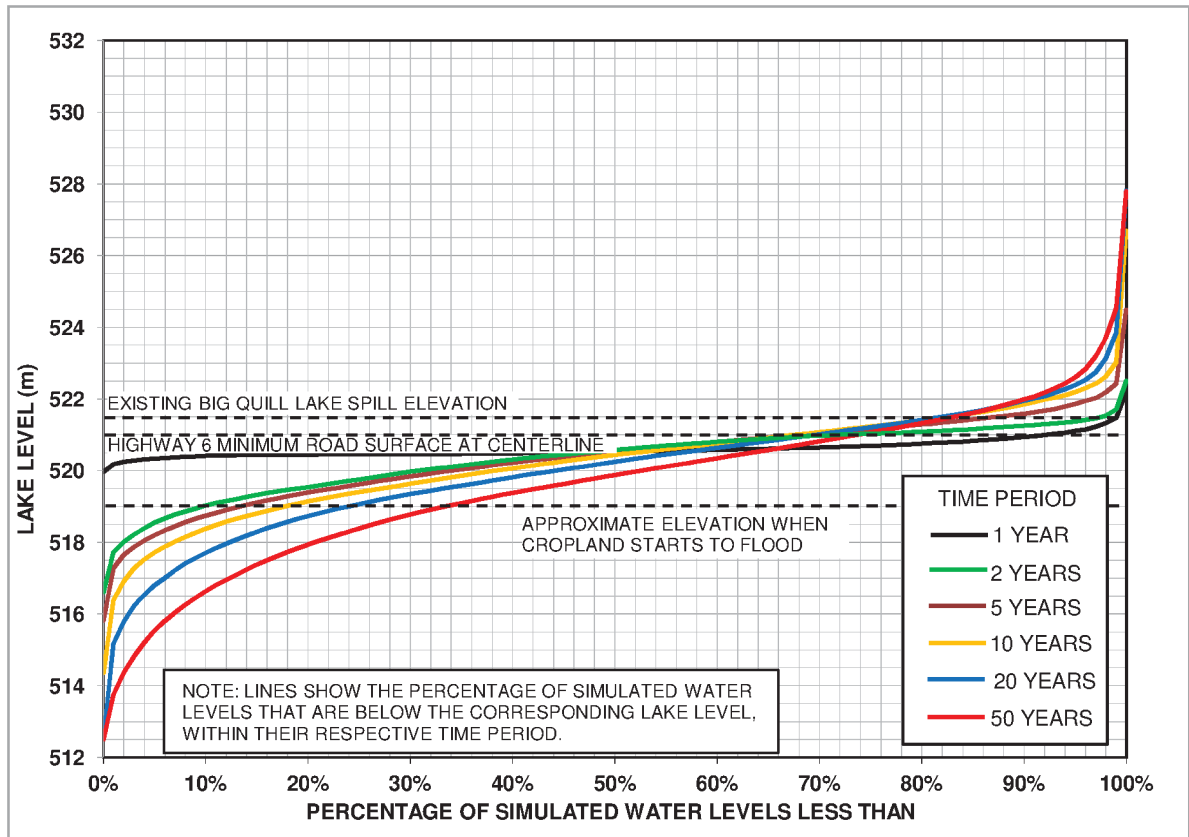
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS EXISTING CONDITIONS DO NOTHING (BASE CASE)				
NOVEMBER 2016		PLATE 06	REV:	0



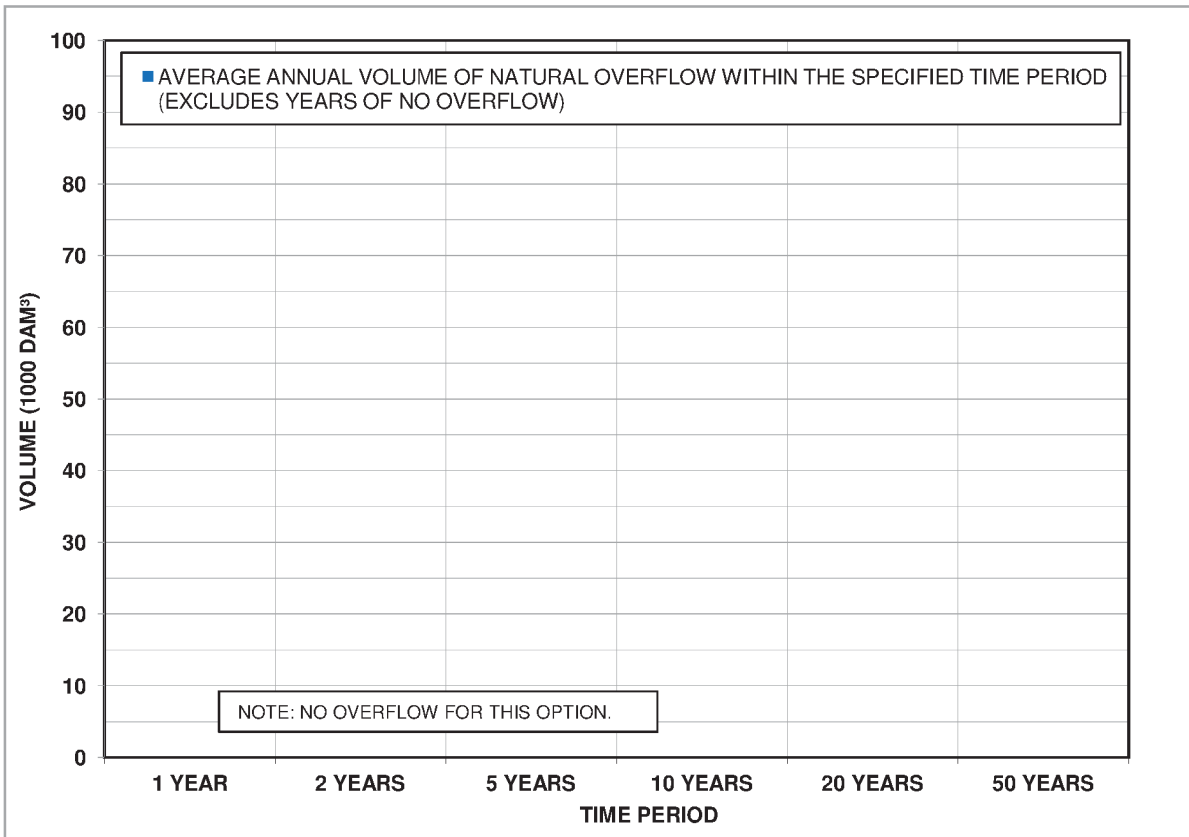
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



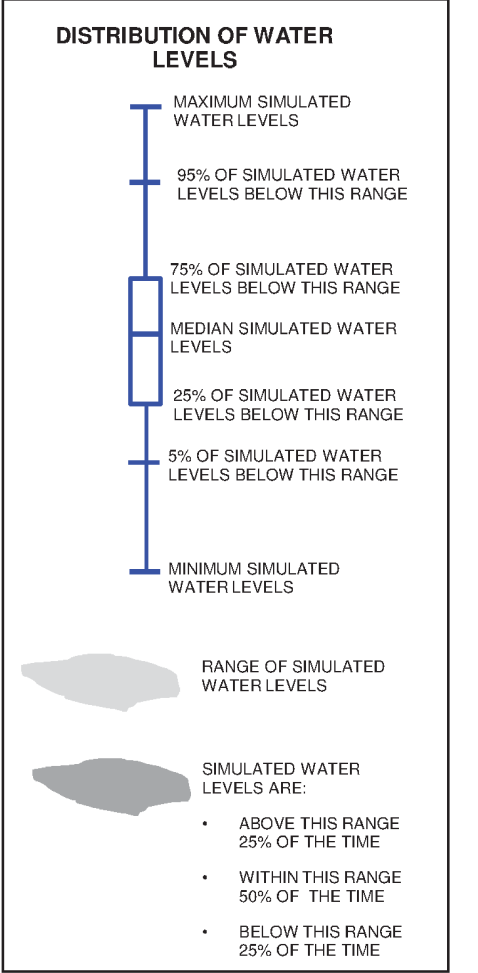
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE



C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

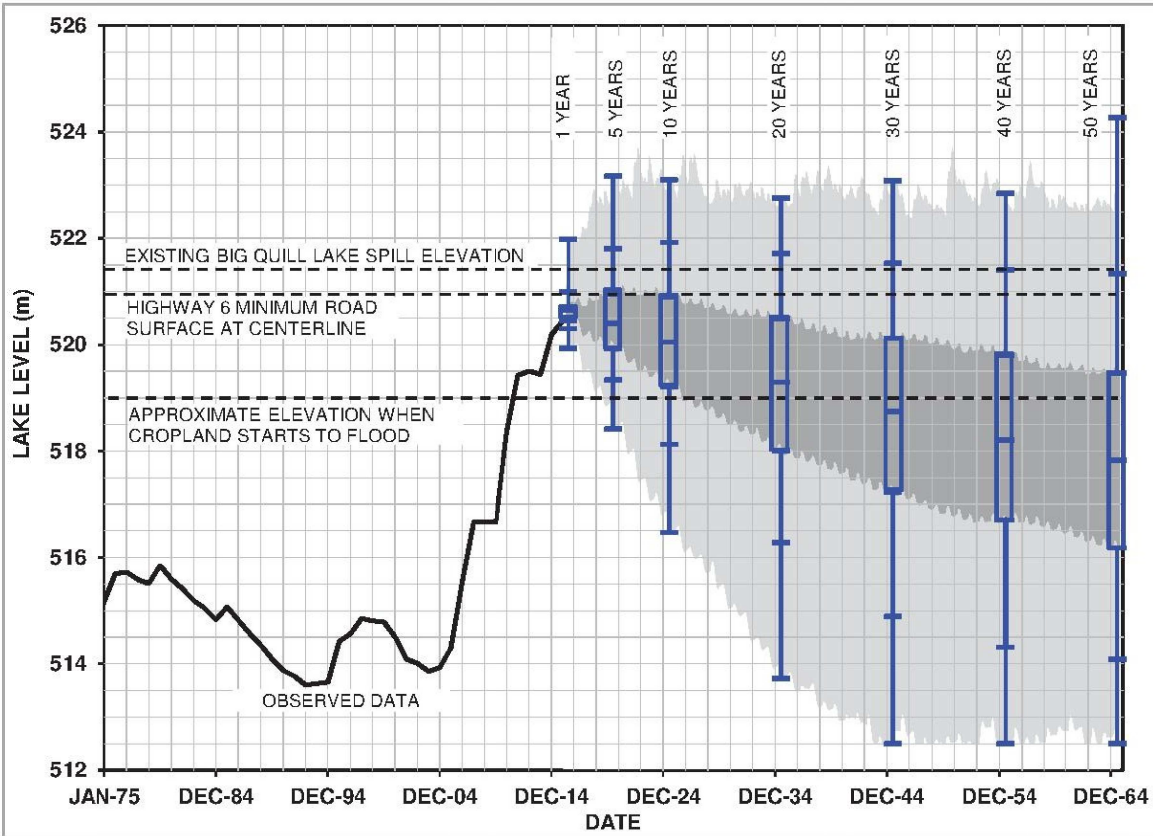


D) SIMULATED AVERAGE ANNUAL VOLUMES

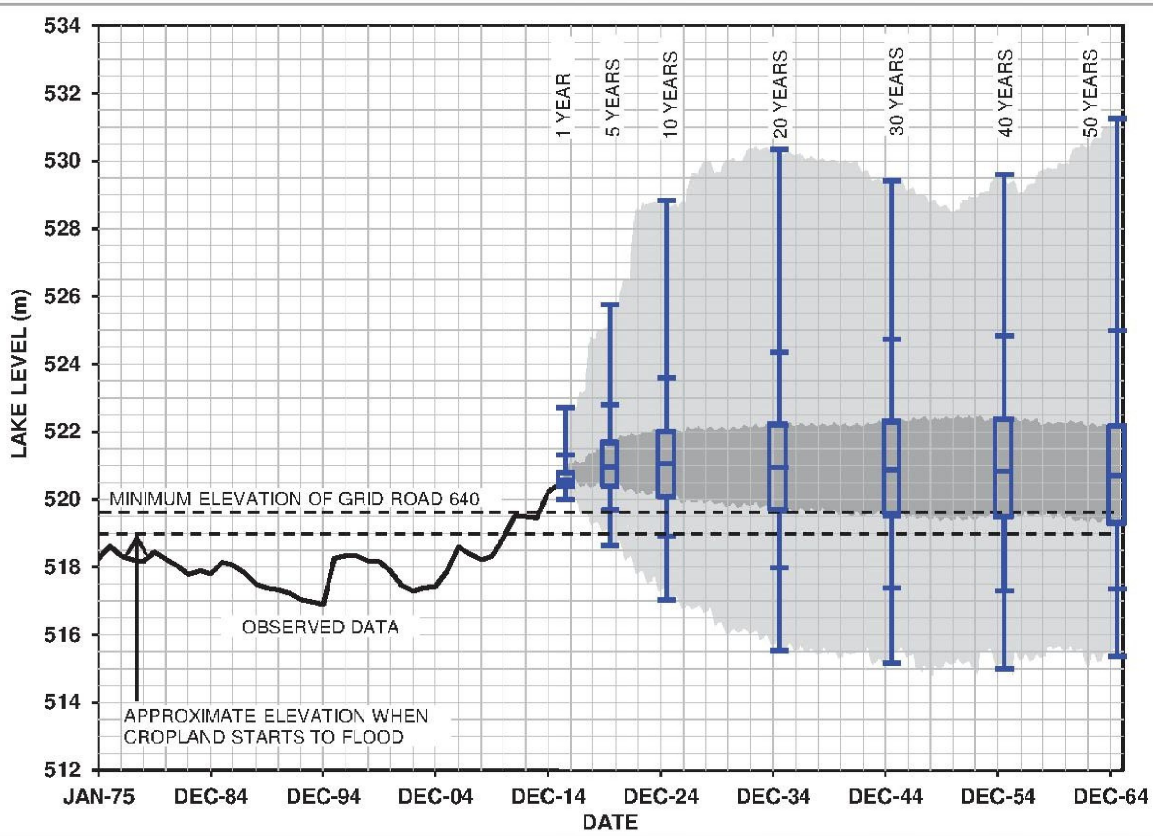


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

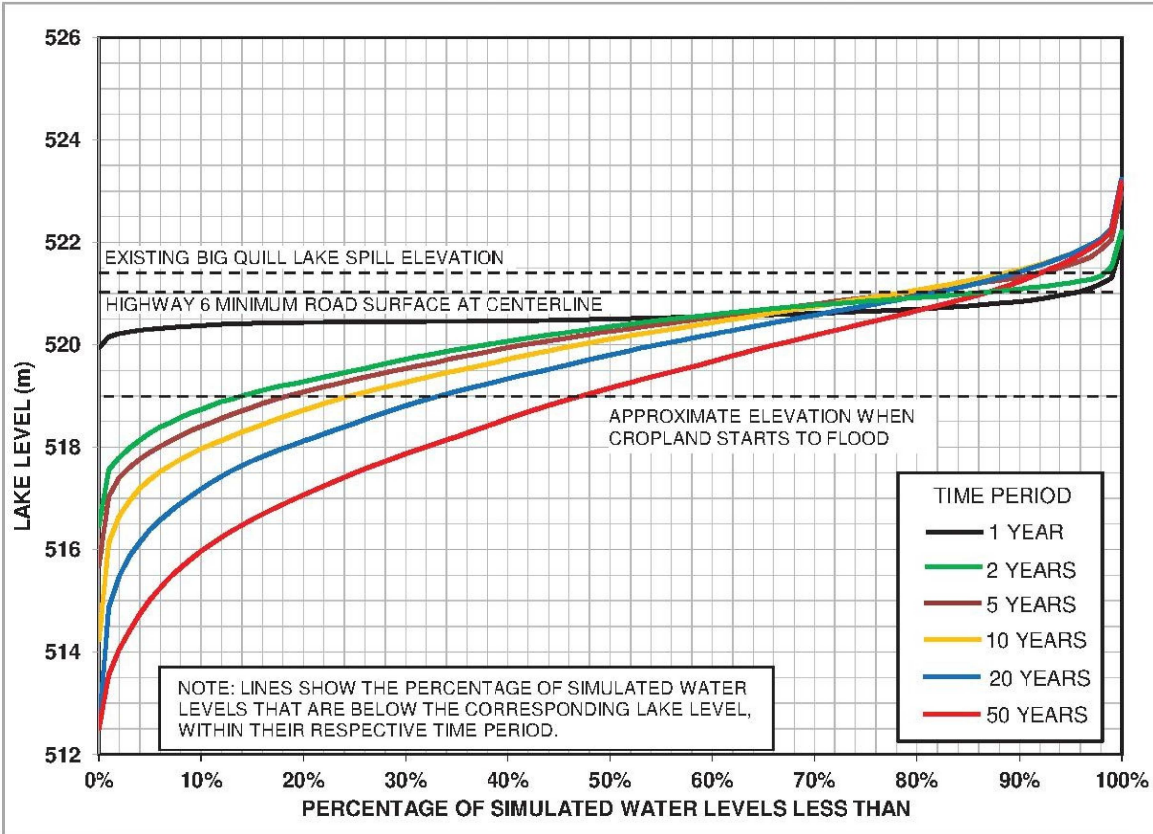
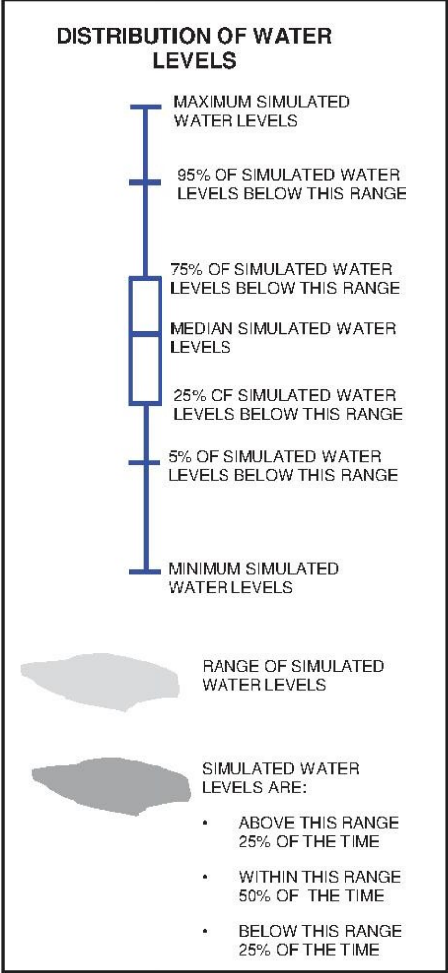
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS				
Water Security Agency				
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS BLOCK NATURAL OUTLET OPTION				
NOVEMBER 2016		PLATE 07	REV:	0



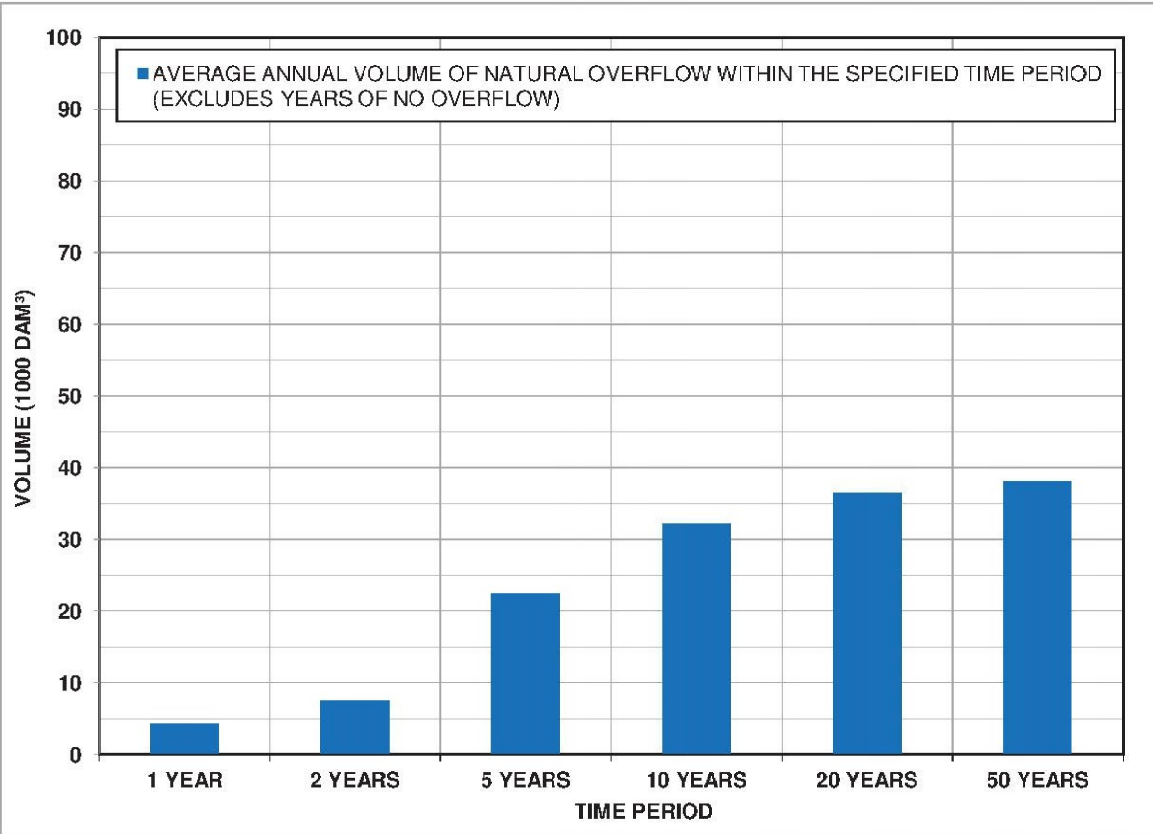
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

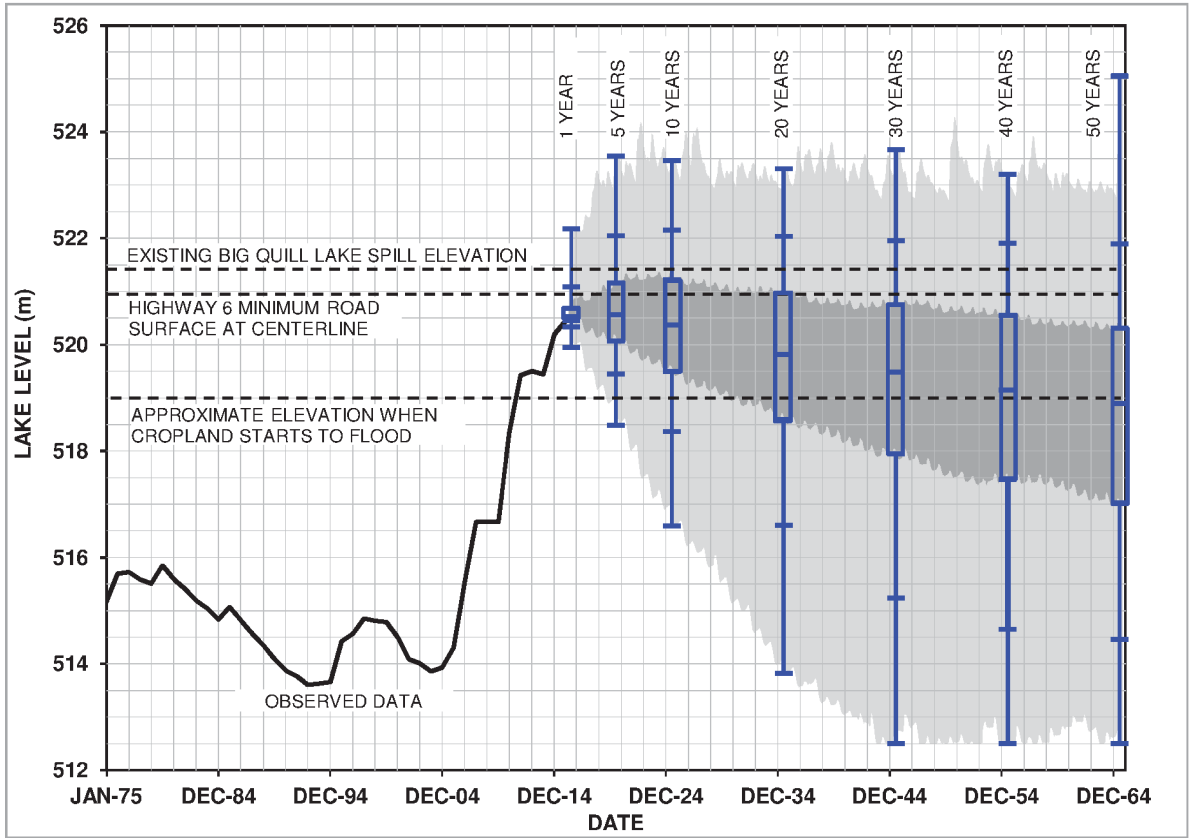


D) SIMULATED AVERAGE ANNUAL VOLUMES

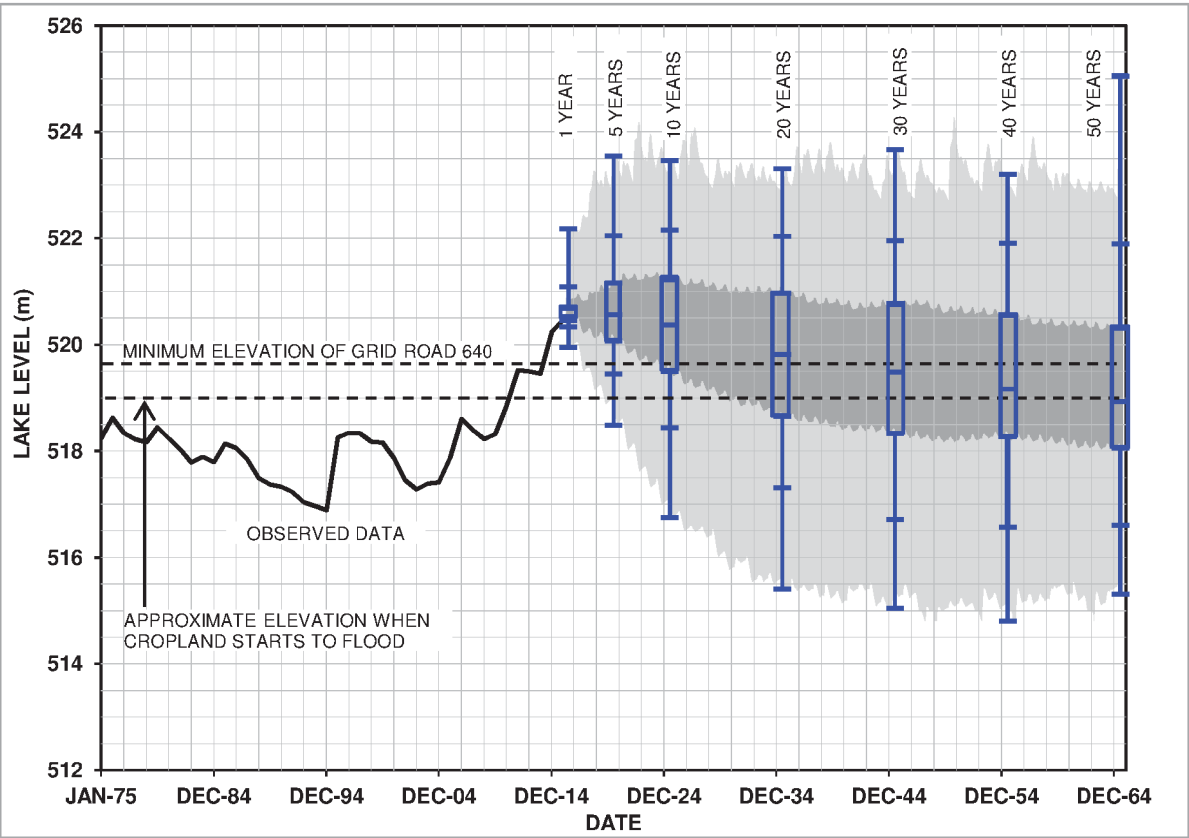
NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

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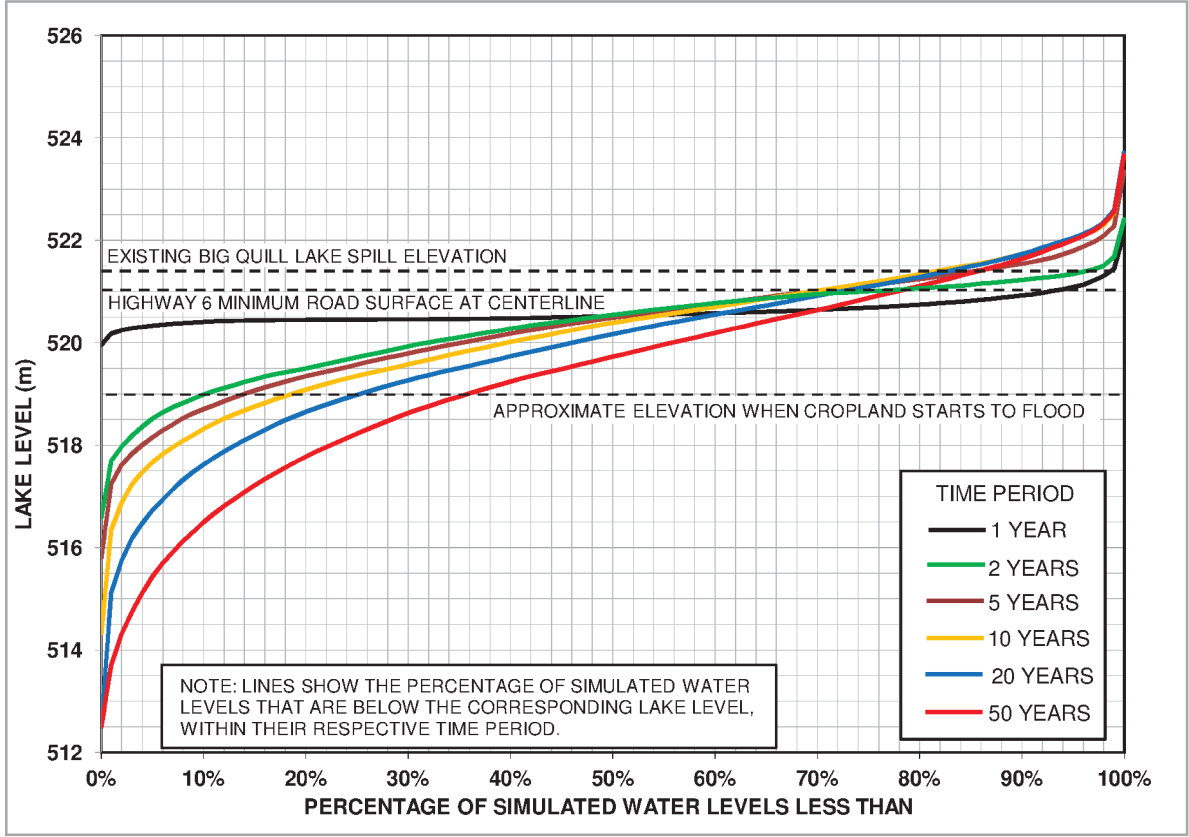
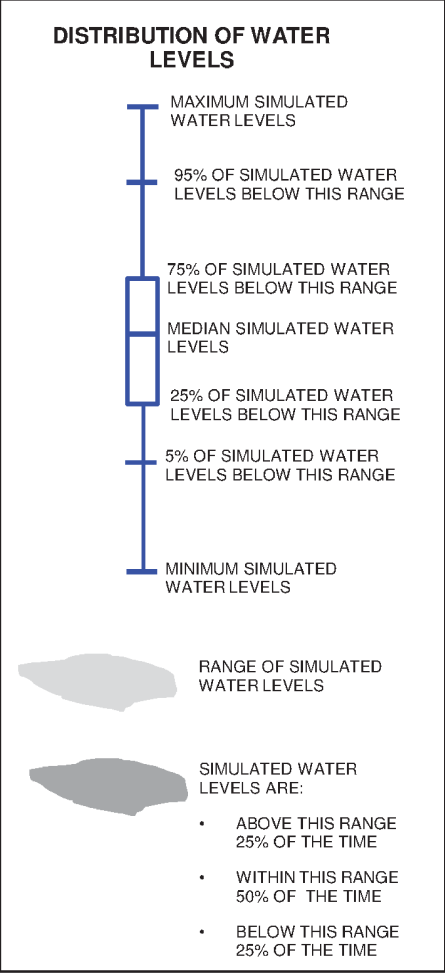
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PA
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHE BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS ISOLATE LITTLE QUILL LAKE OPTION				
NOVEMBER 2016		PLATE 08	REV:	0



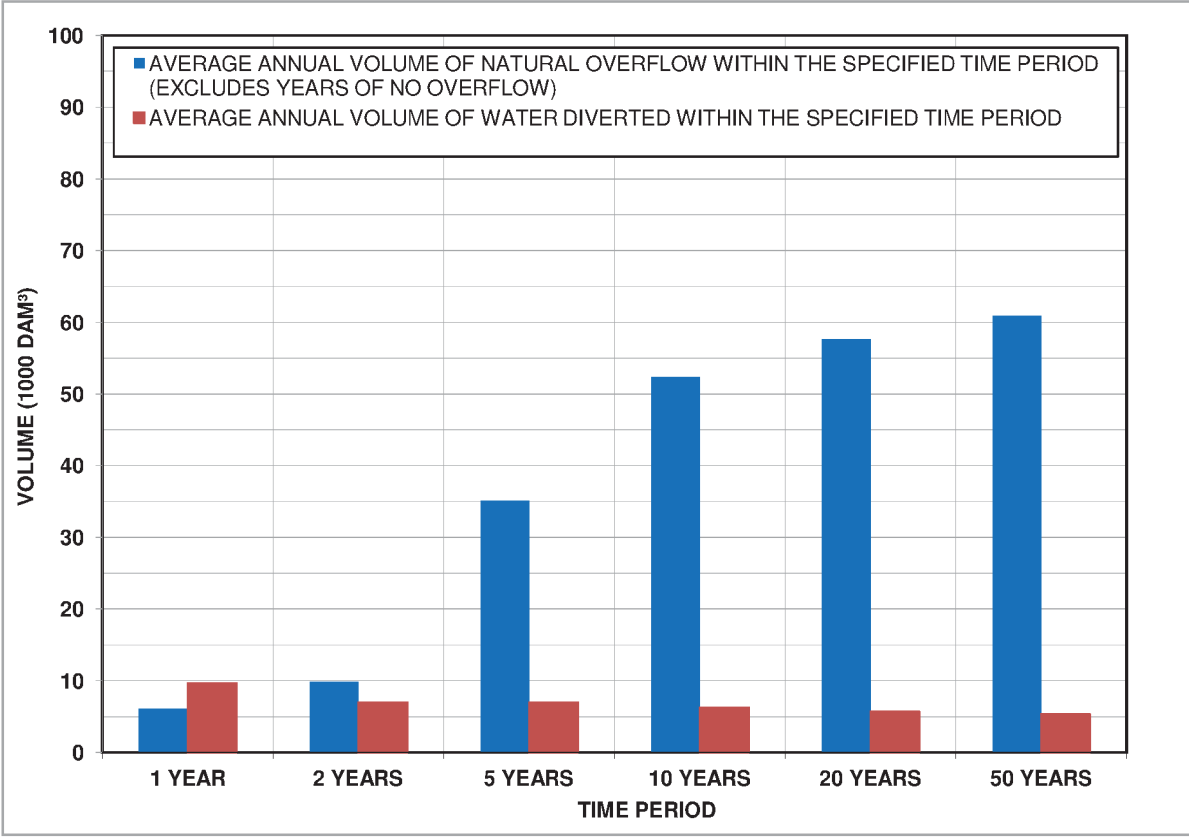
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

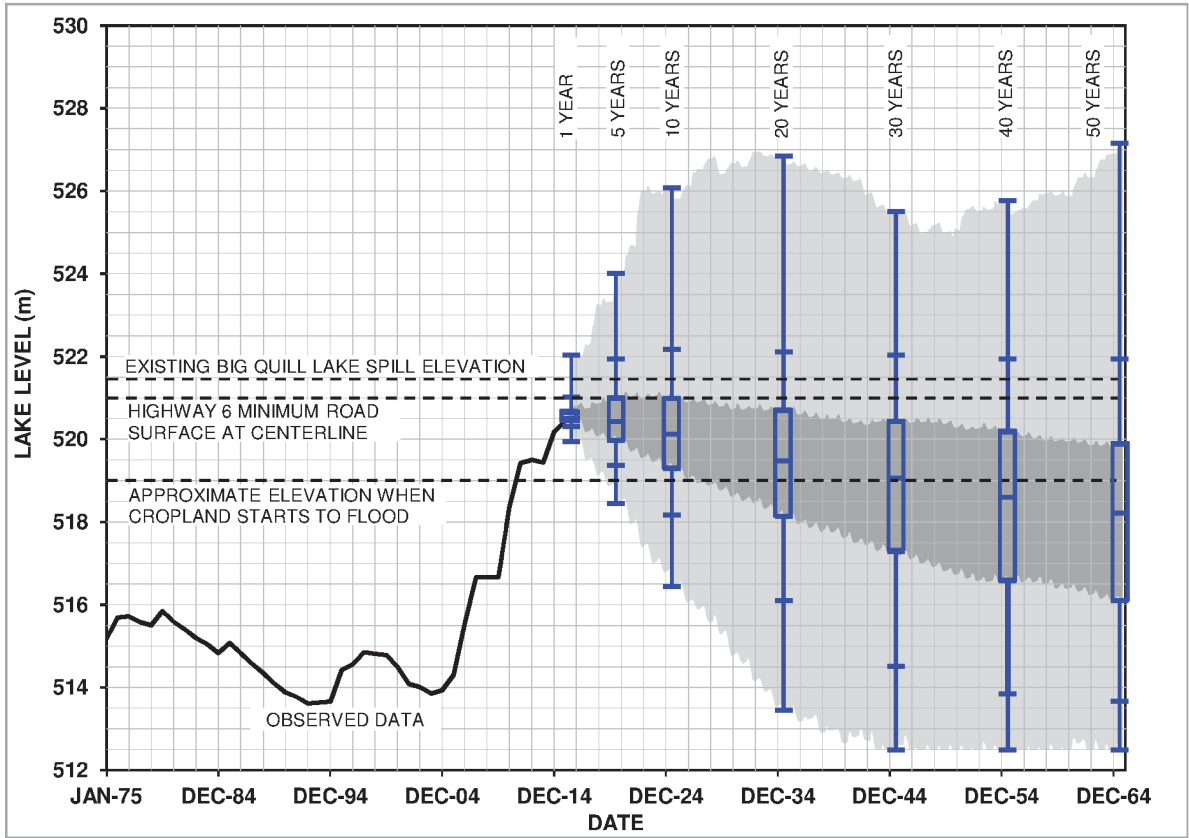


D) SIMULATED AVERAGE ANNUAL VOLUMES

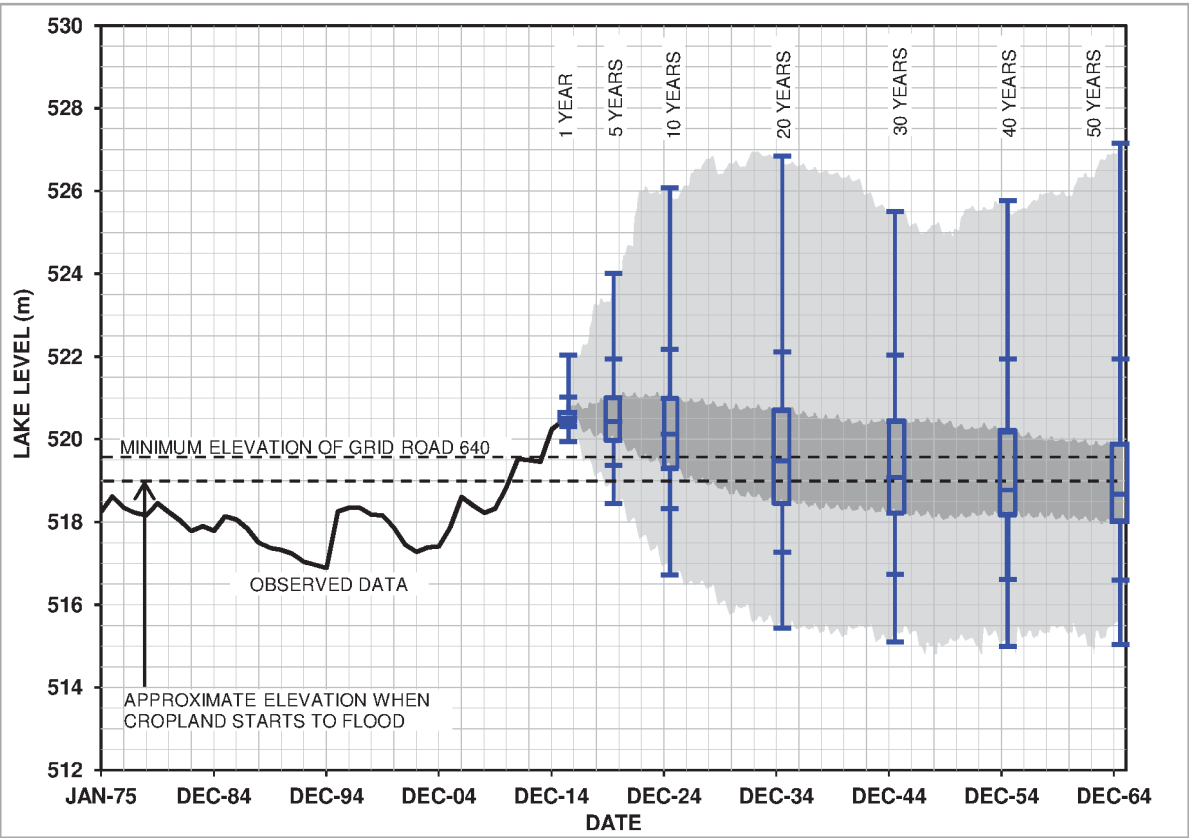
NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

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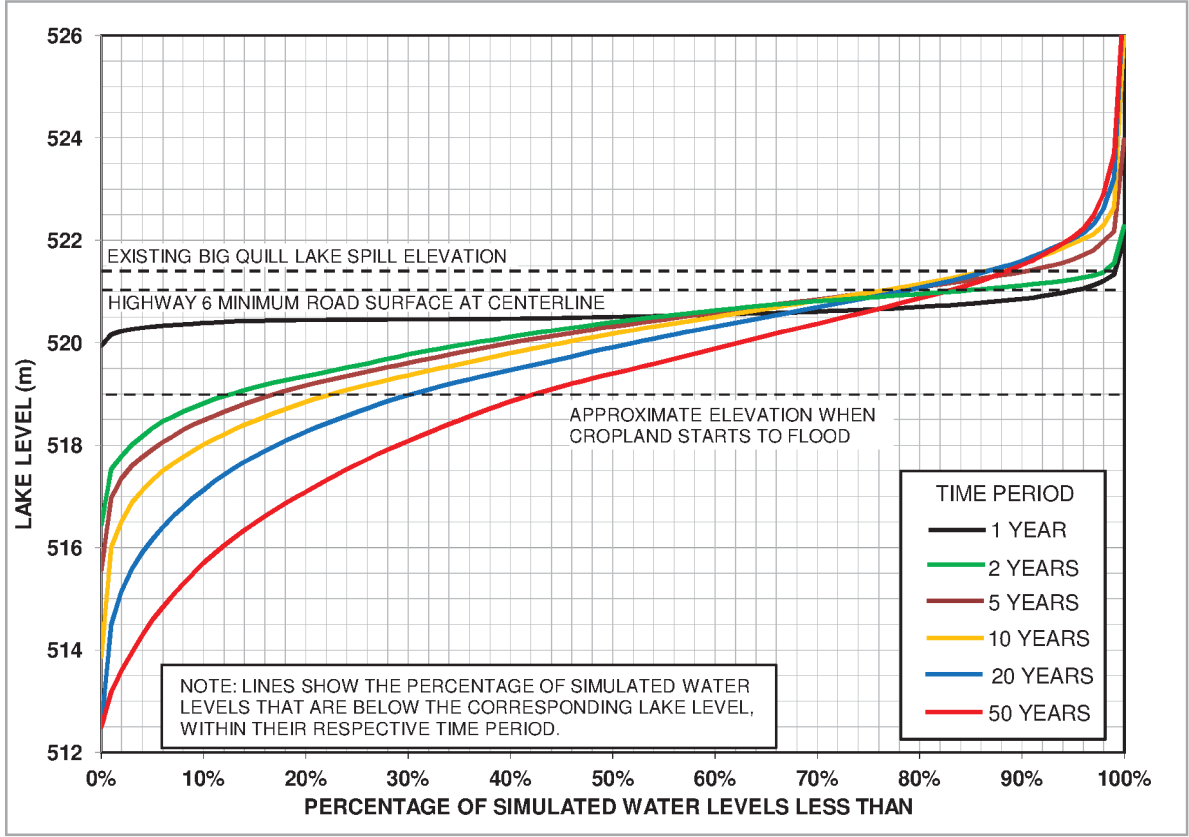
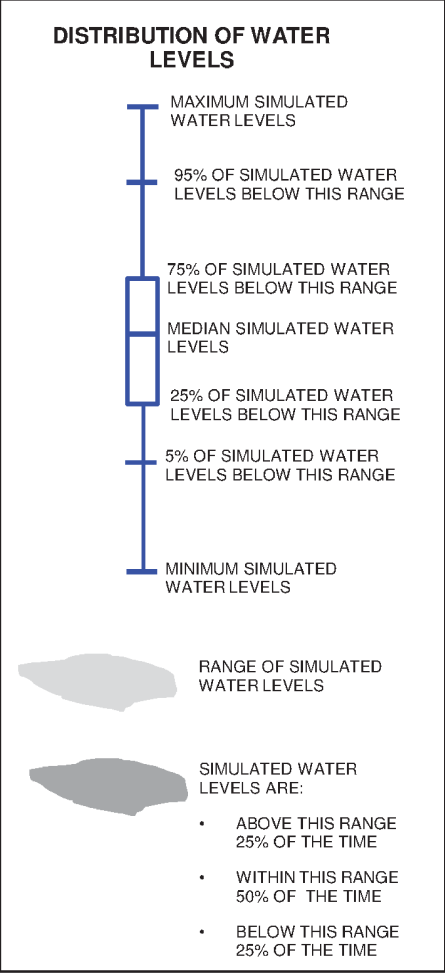
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS PONASS LAKES DIVERSION OPTION				
NOVEMBER 2016		PLATE 09	REV:	0



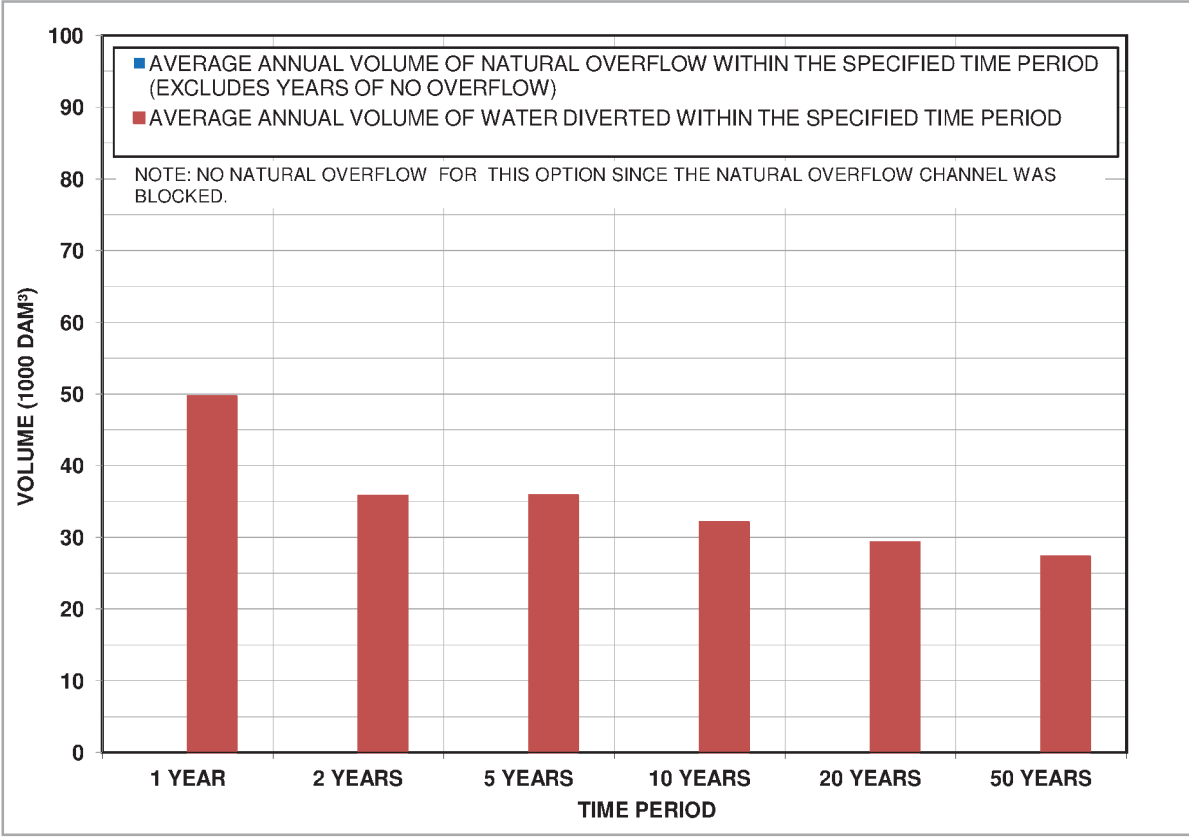
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE





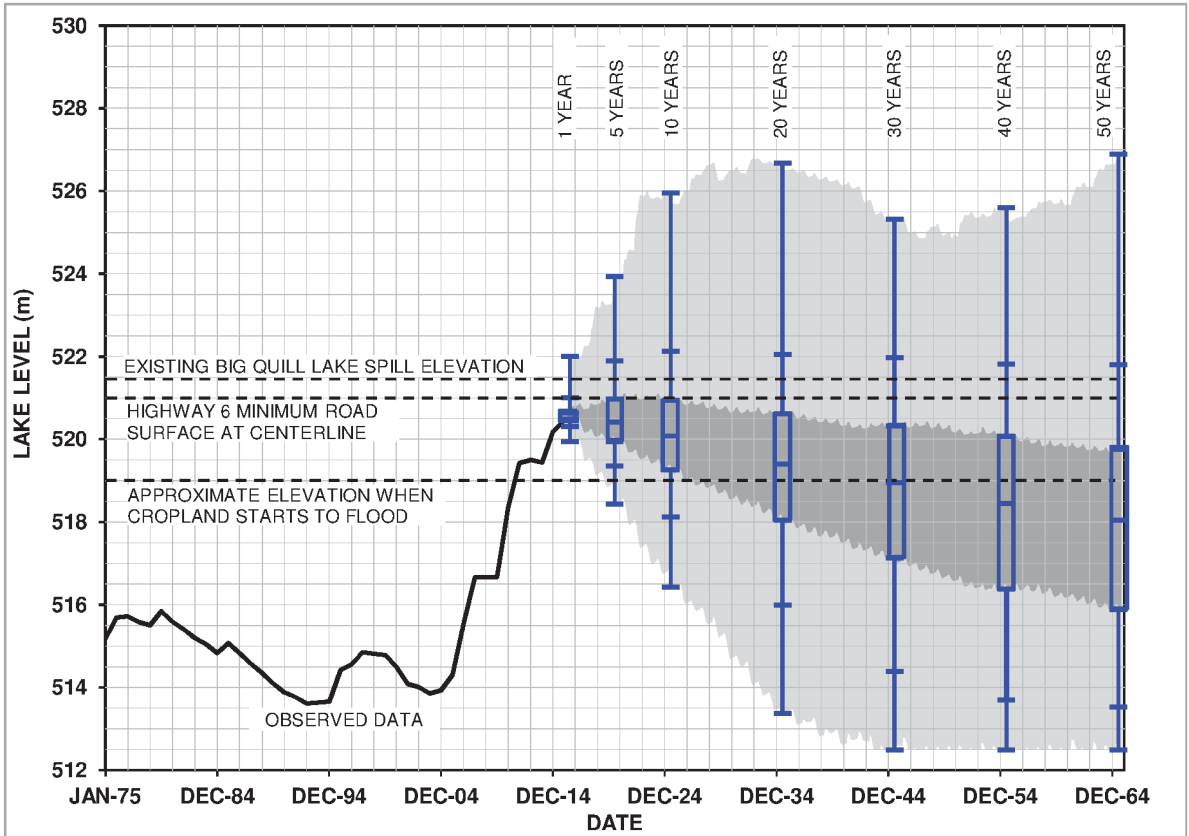
C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE



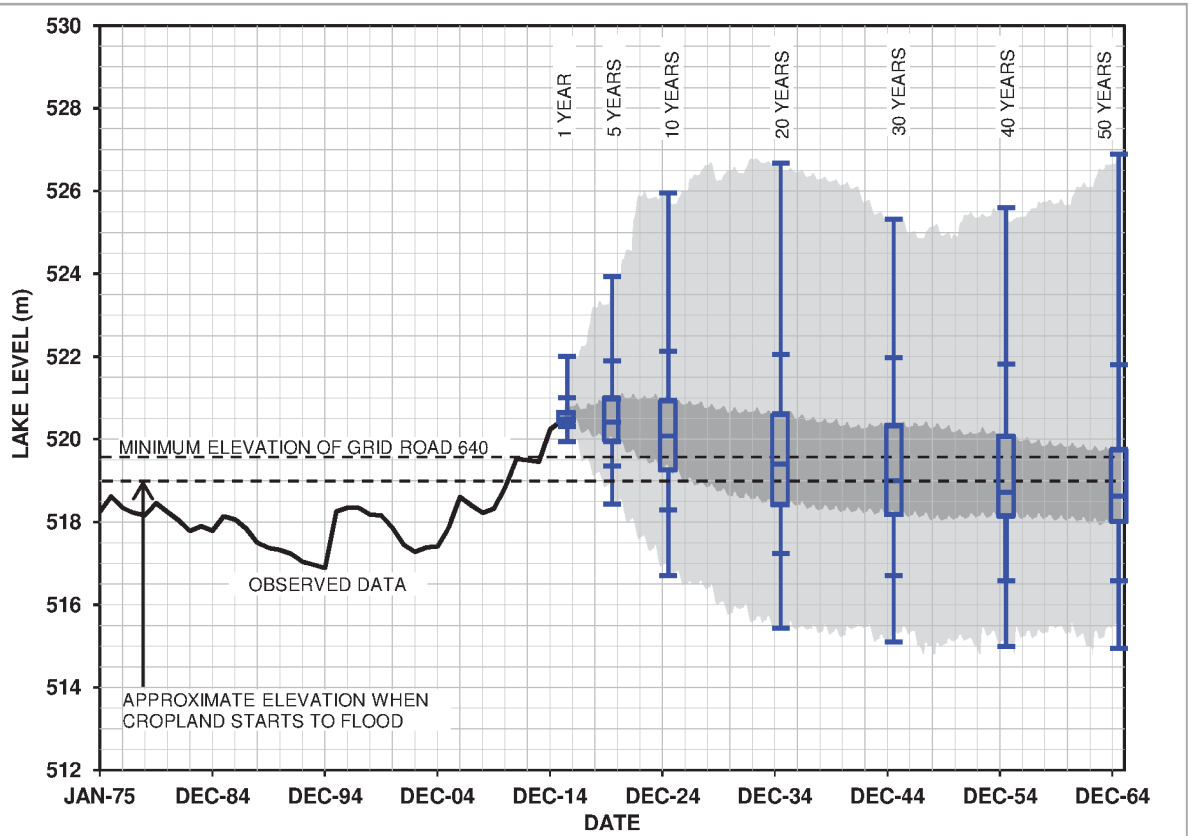
D) SIMULATED AVERAGE ANNUAL VOLUMES

NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

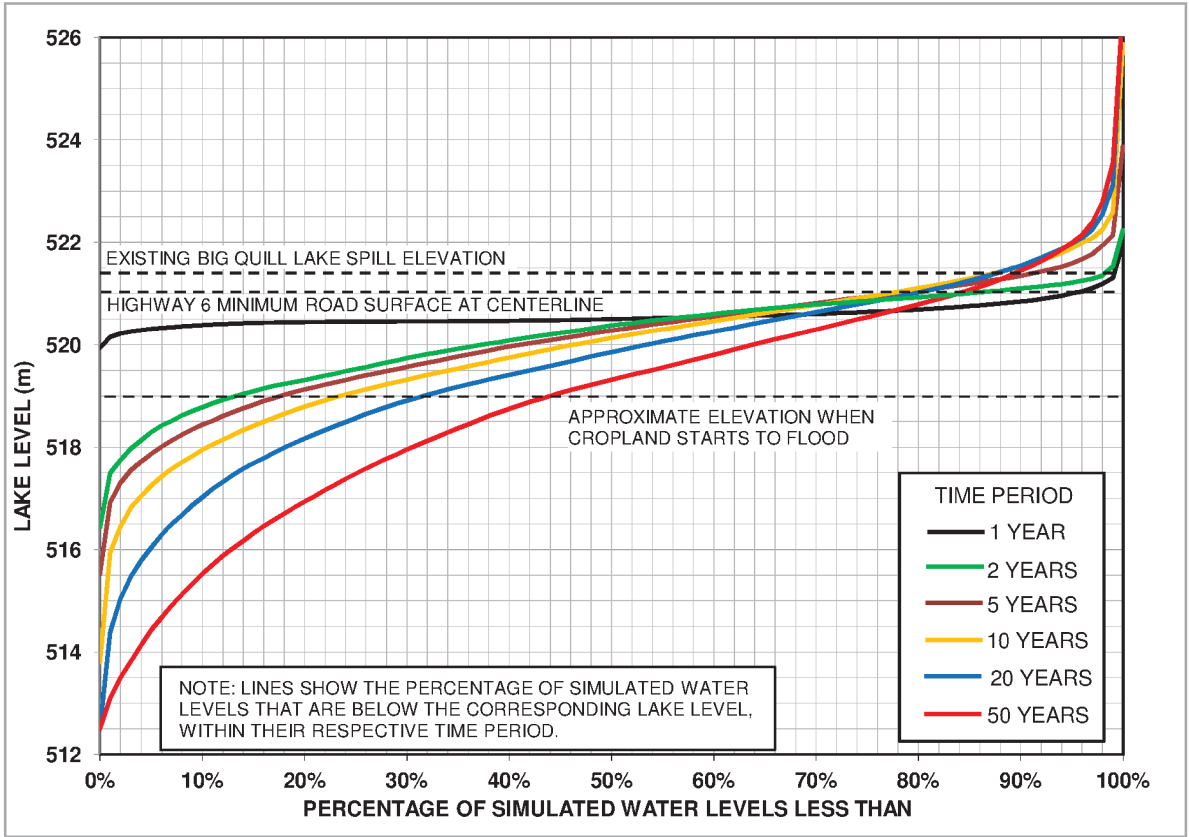
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS KUTAWAGAN CREEK DIVERSION OPTION				
NOVEMBER 2016		PLATE 10	REV:	0



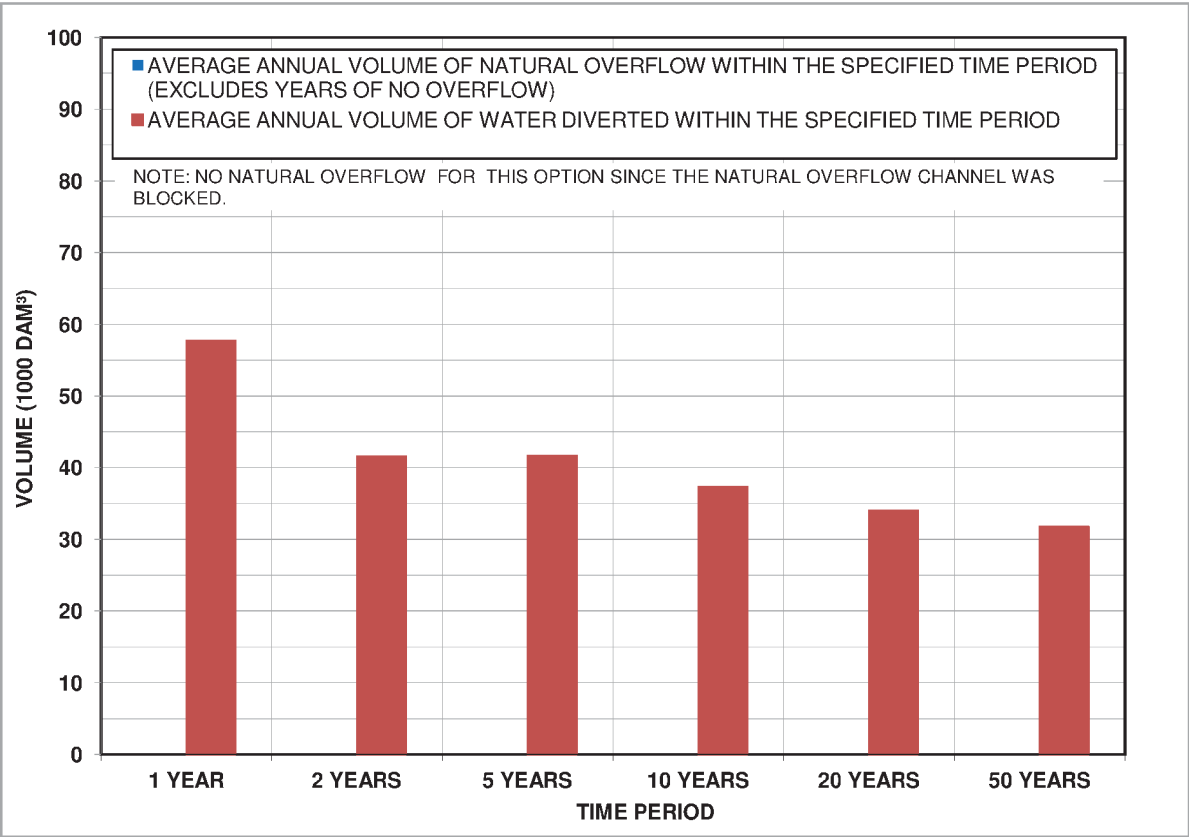
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



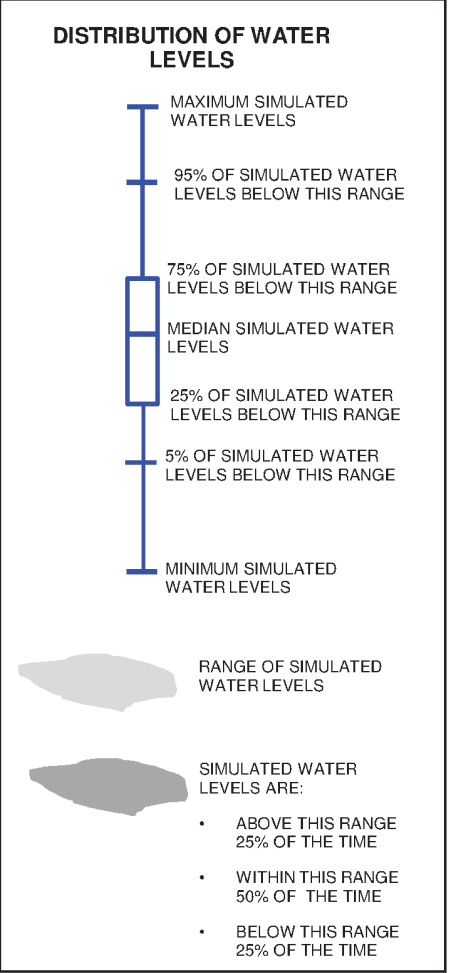
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE





C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

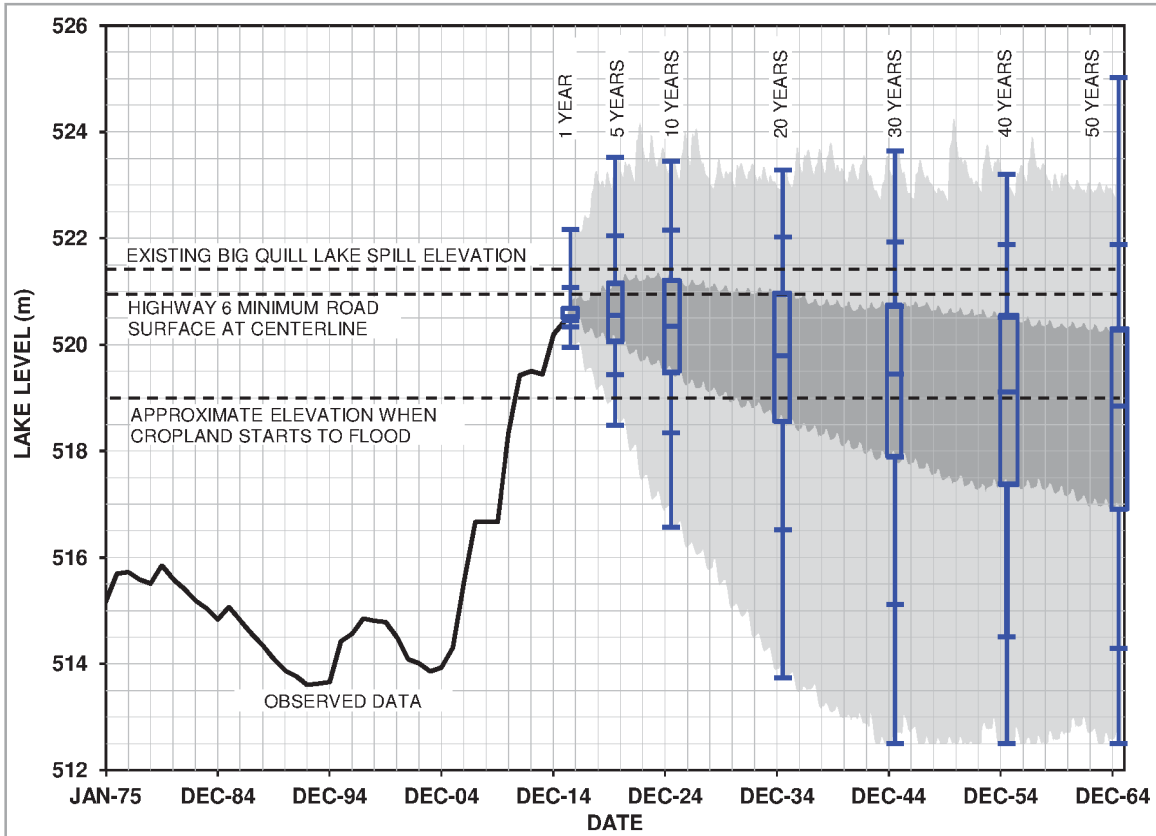


D) SIMULATED AVERAGE ANNUAL VOLUMES

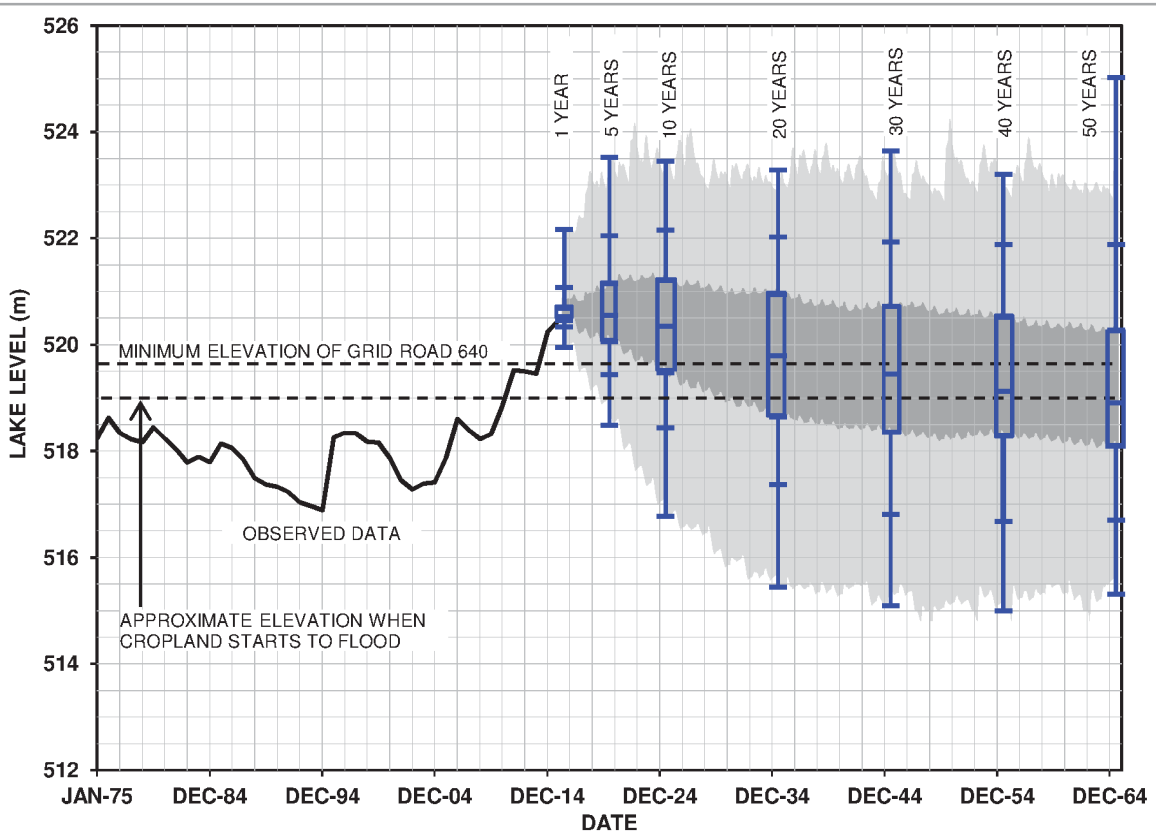


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

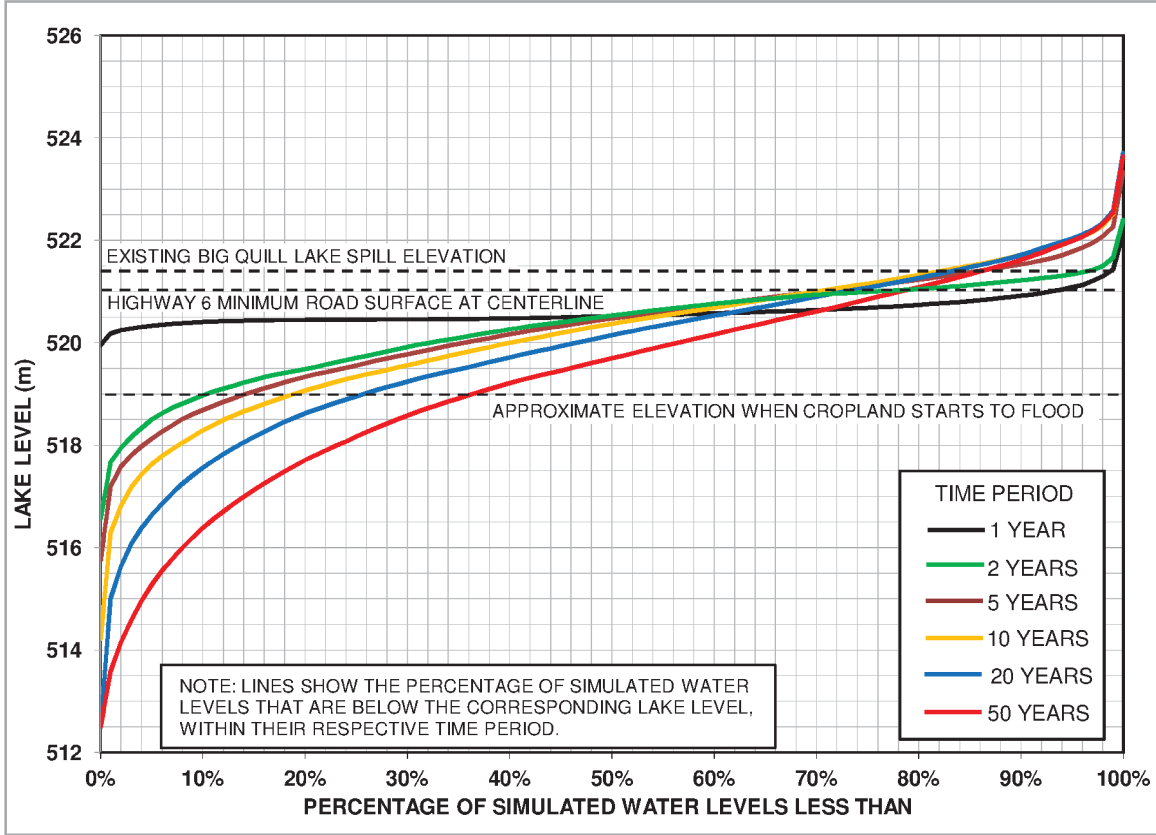
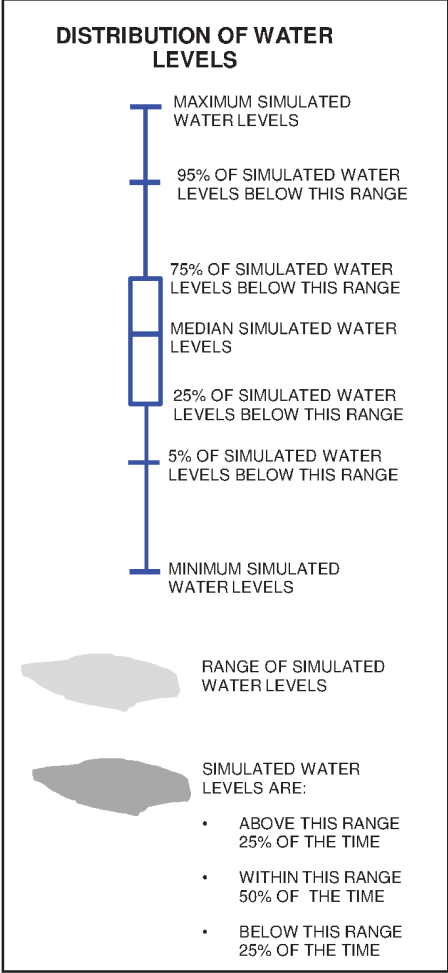
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS KUTAWAGAN CREEK AND HIGHWAY 16 AREA DIVERSION OPTION				
NOVEMBER 2016		PLATE 11	REV:	0



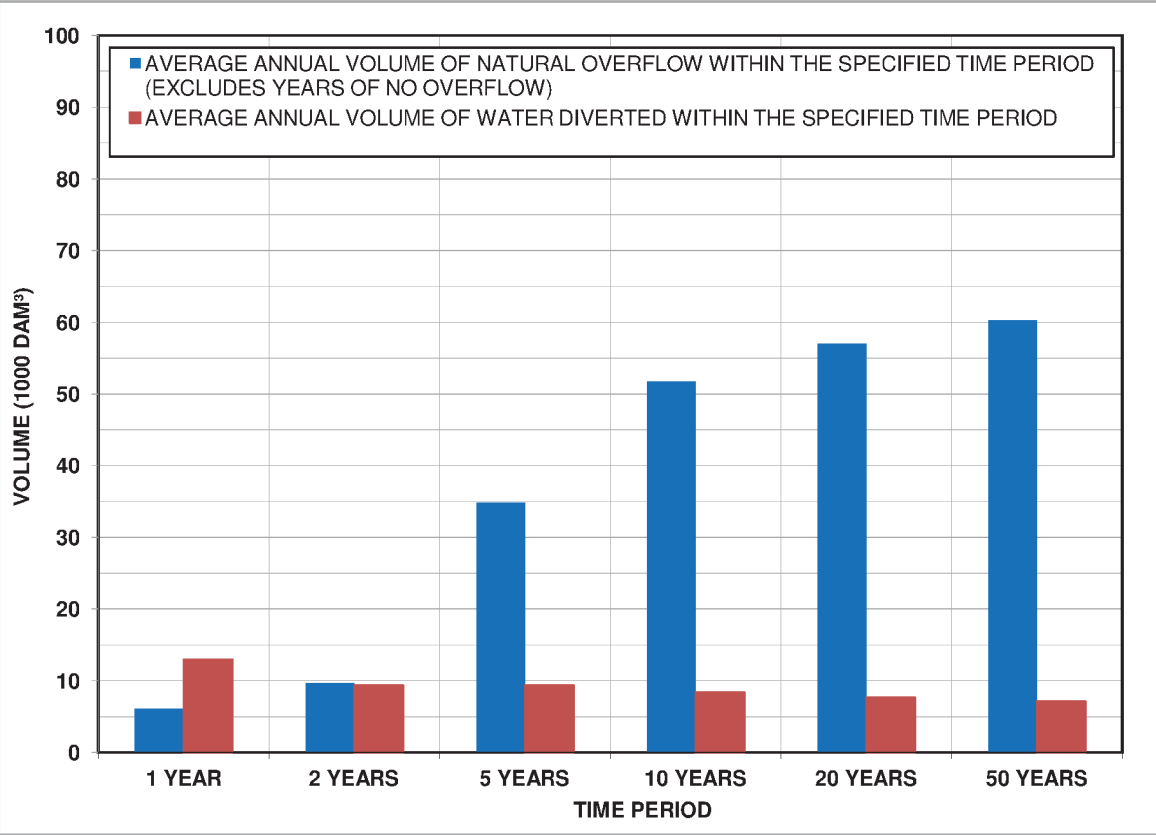
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




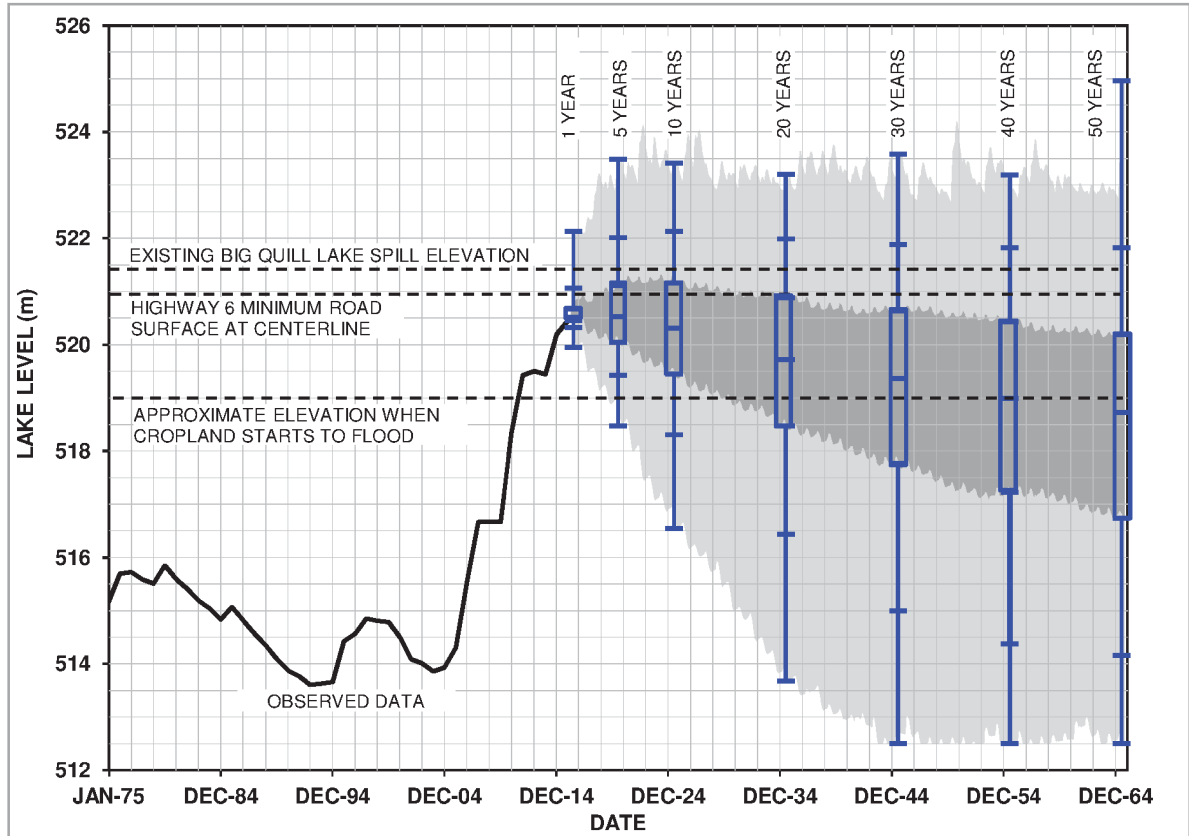
C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE



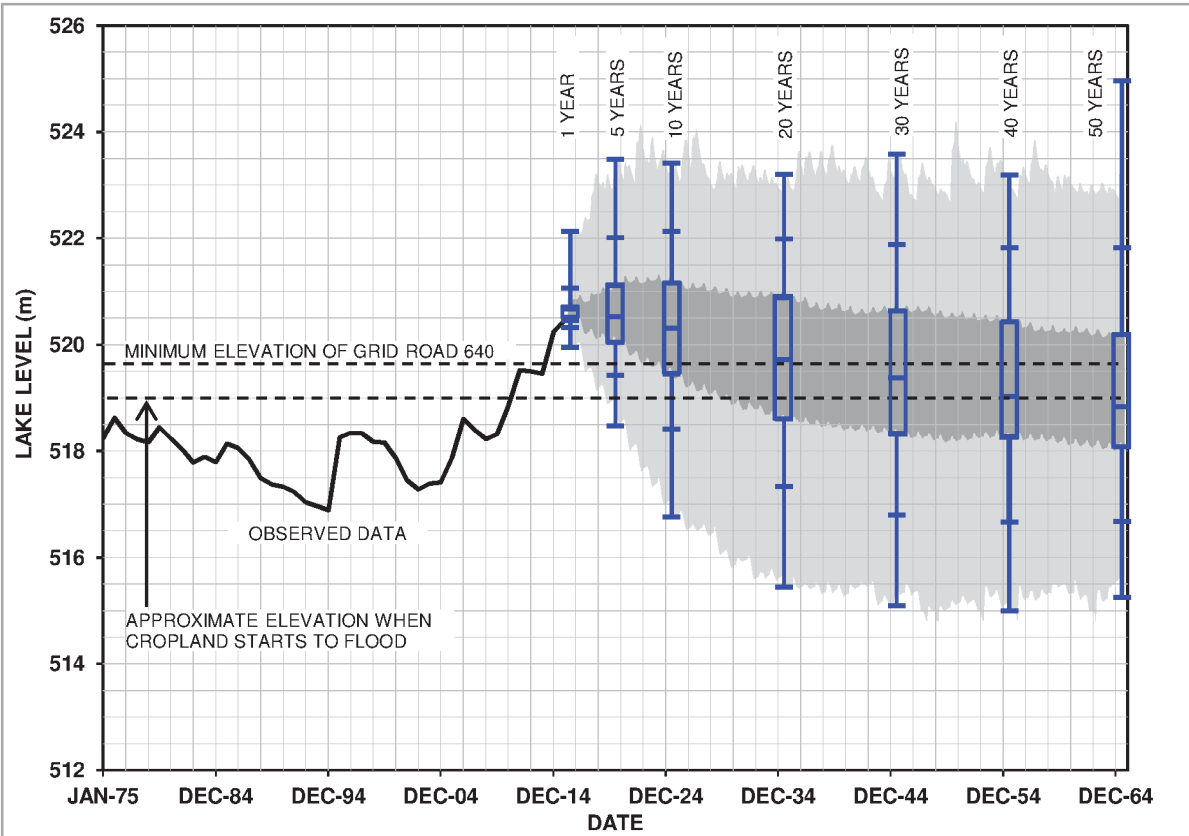
D) SIMULATED AVERAGE ANNUAL VOLUMES

NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

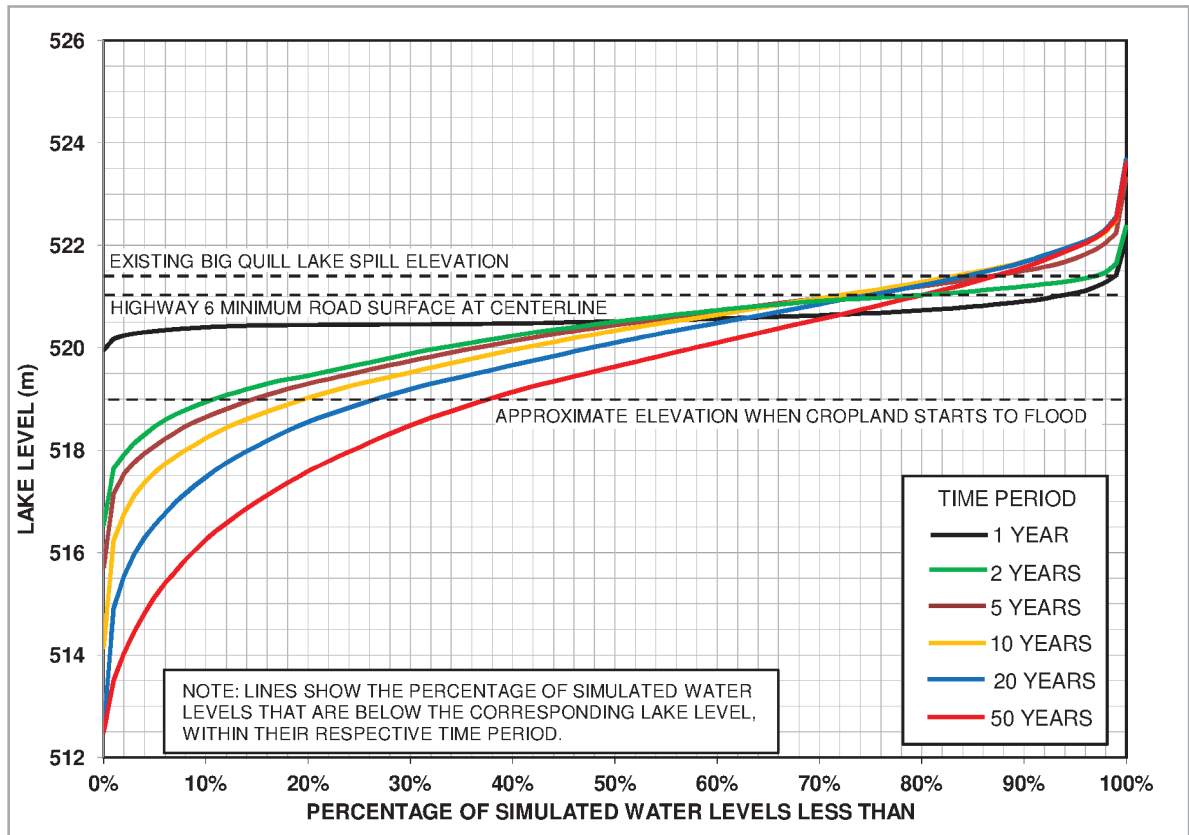
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHE BY
REVISIONS / ISSUE				
<div><div>KGS</div><div>GROUP</div><div>CONSULTING ENGINEERS</div></div>		<div><div></div><div>Water Security Agency</div></div>		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS JANSEN LAKE DIVERSION OPTION				
NOVEMBER 2016		PLATE 12		REV: 0



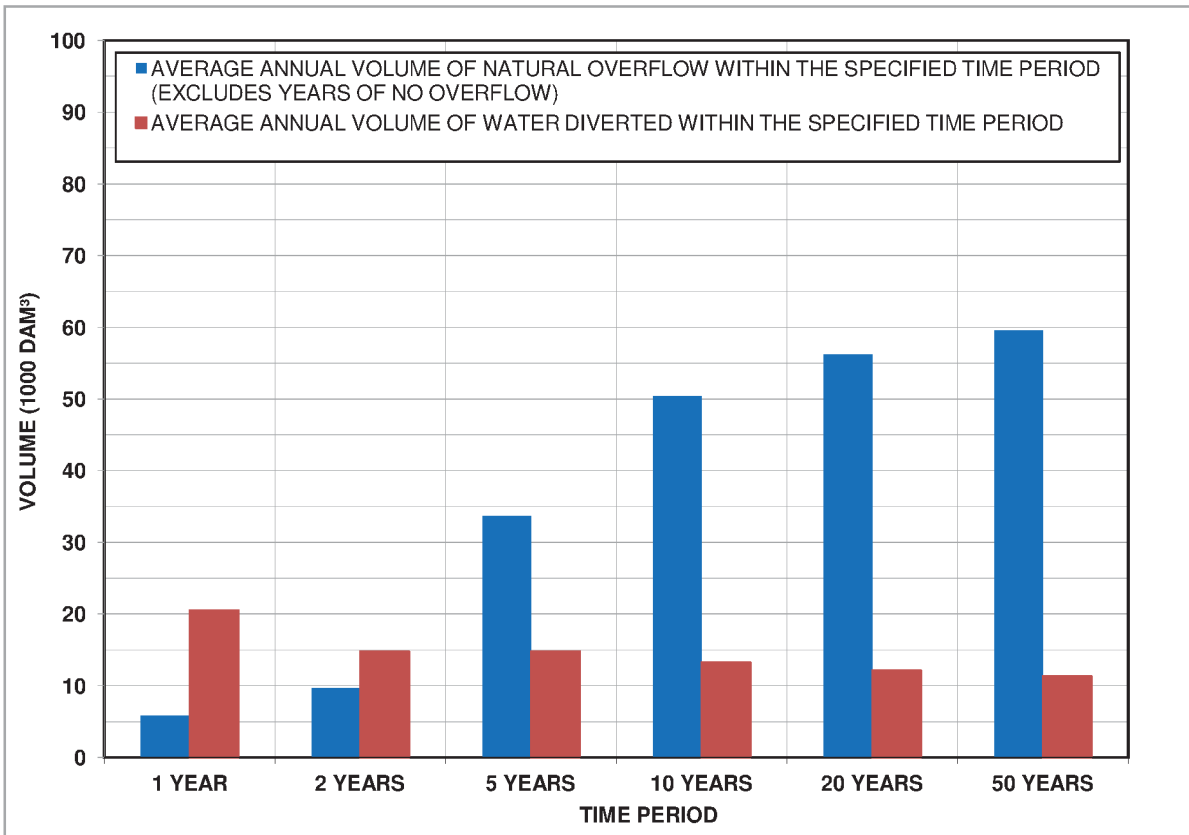
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



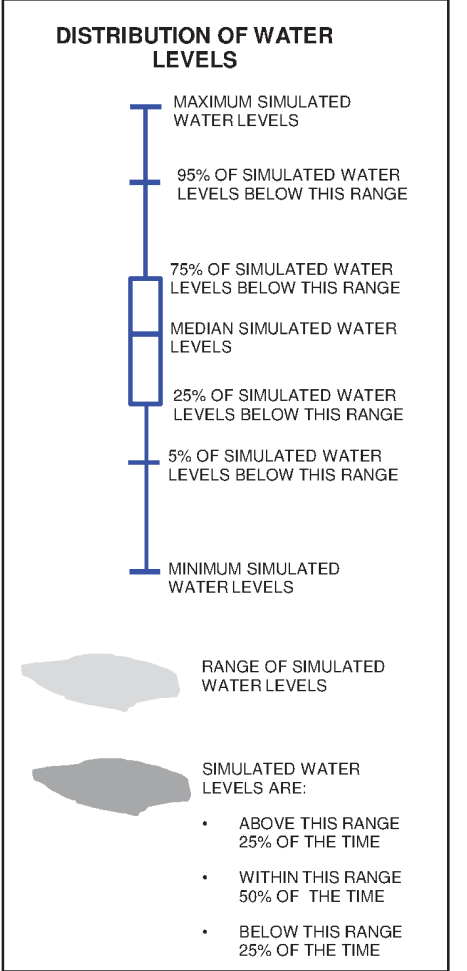
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

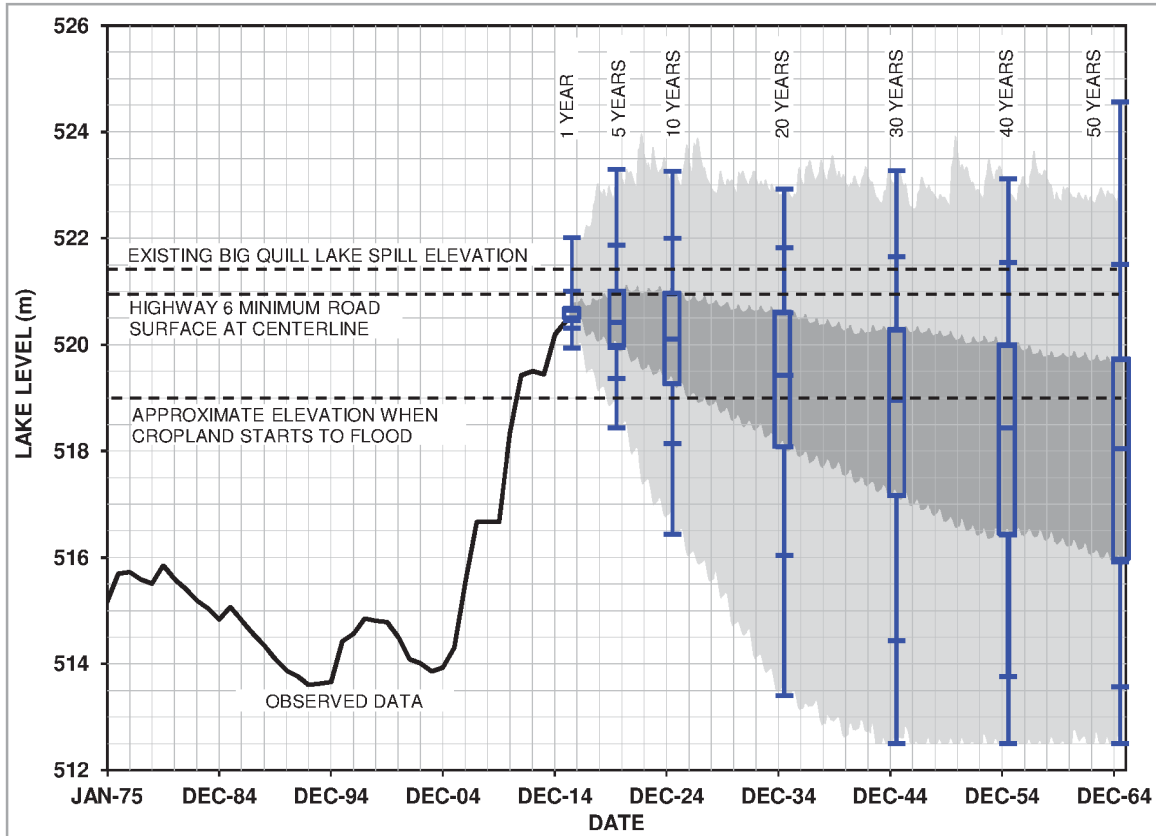


D) SIMULATED AVERAGE ANNUAL VOLUMES

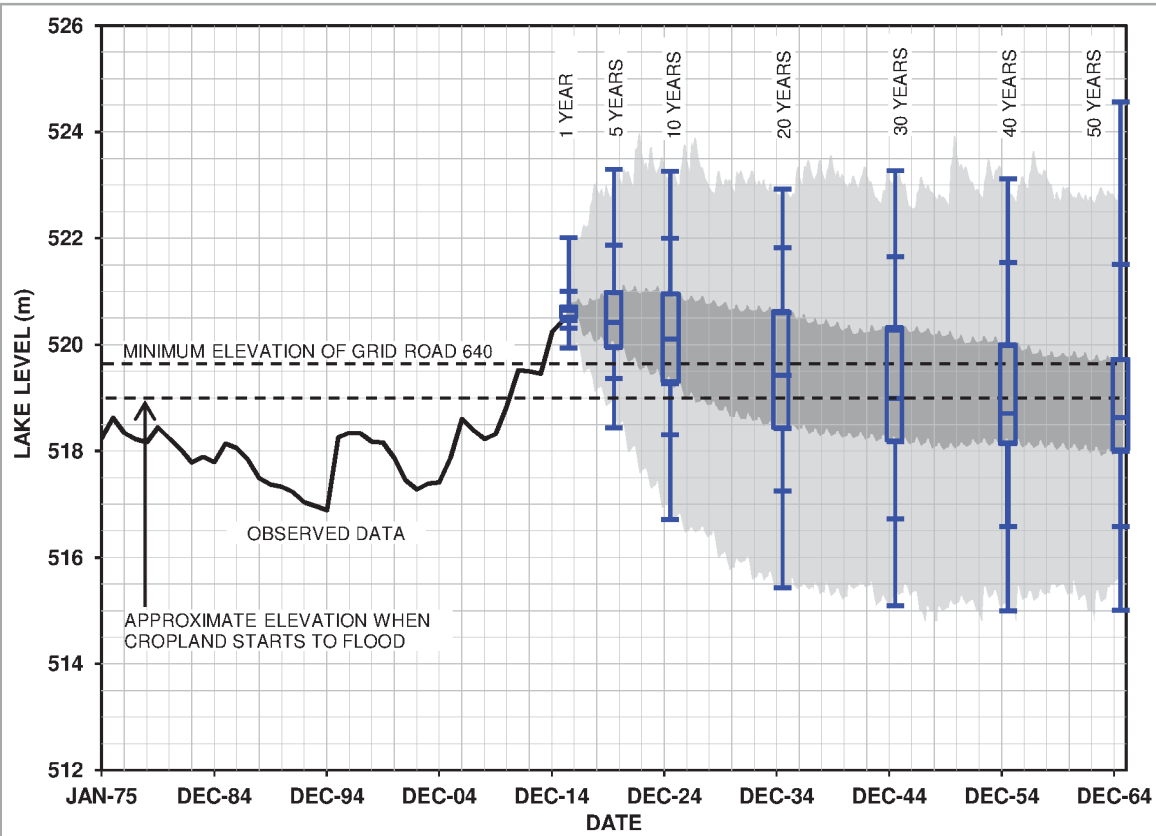


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

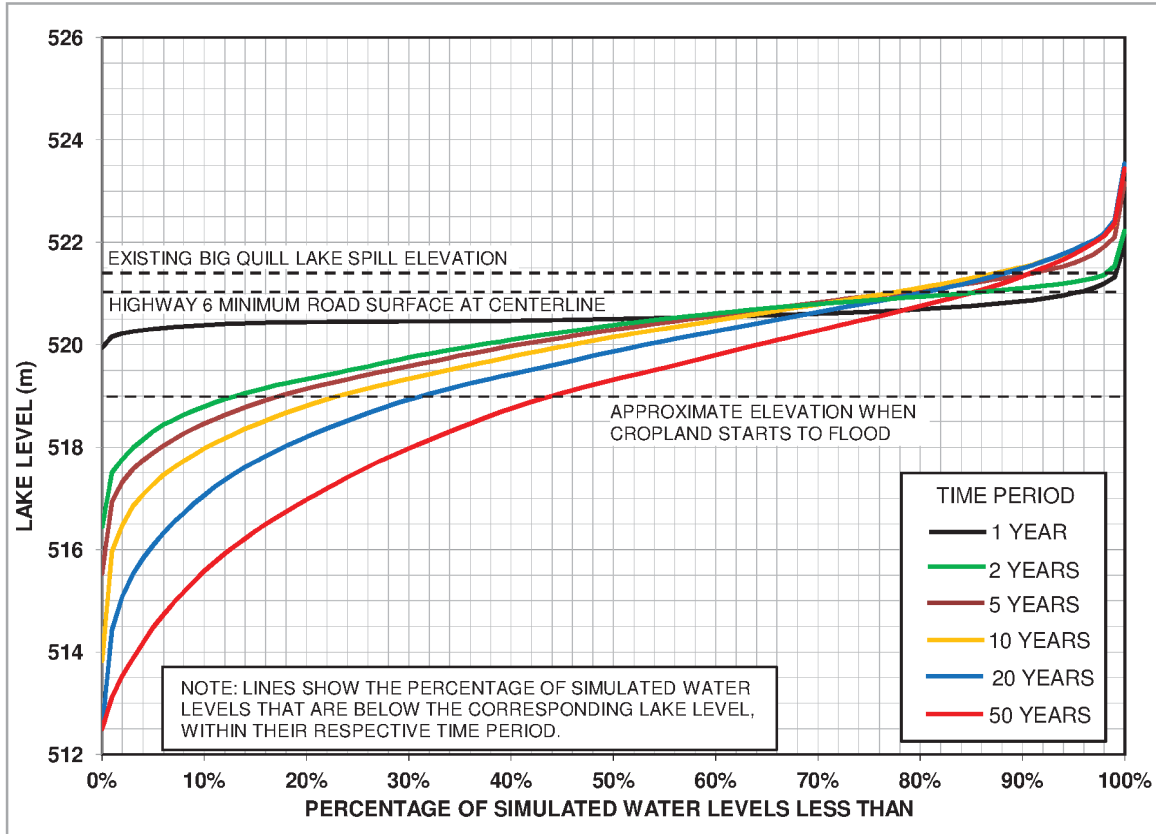
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
<div>KGS GROUP CONSULTING ENGINEERS</div>		<div>Water Security Agency</div>		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS JANSEN LAKE AND ROMANCE CREEK DIVERSION OPTION				
NOVEMBER 2016		PLATE 13	REV:	0



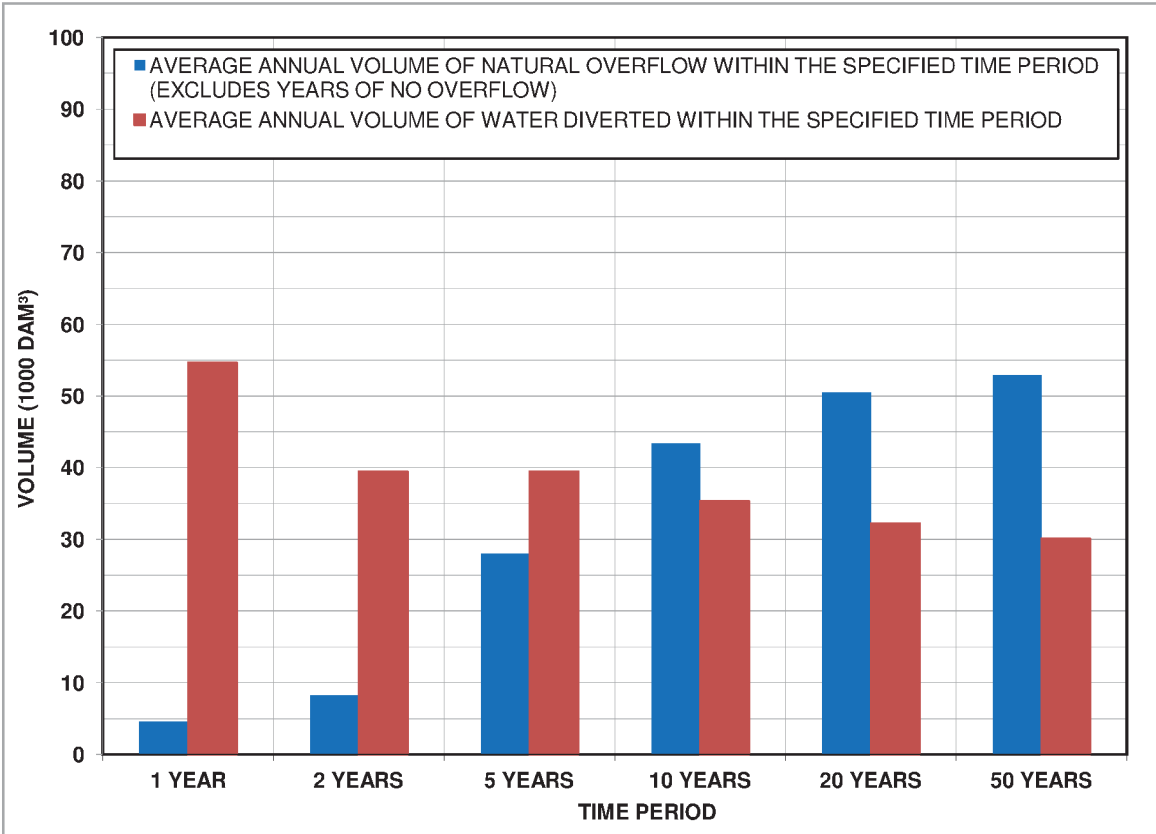
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



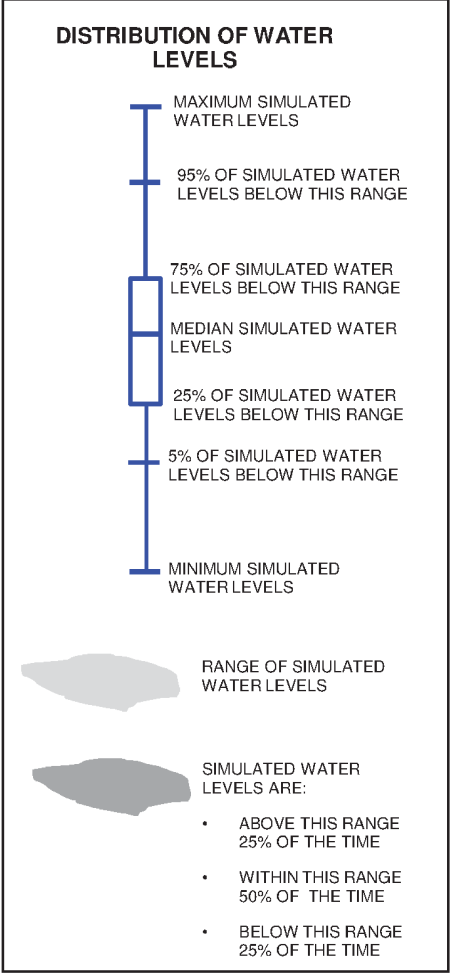
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

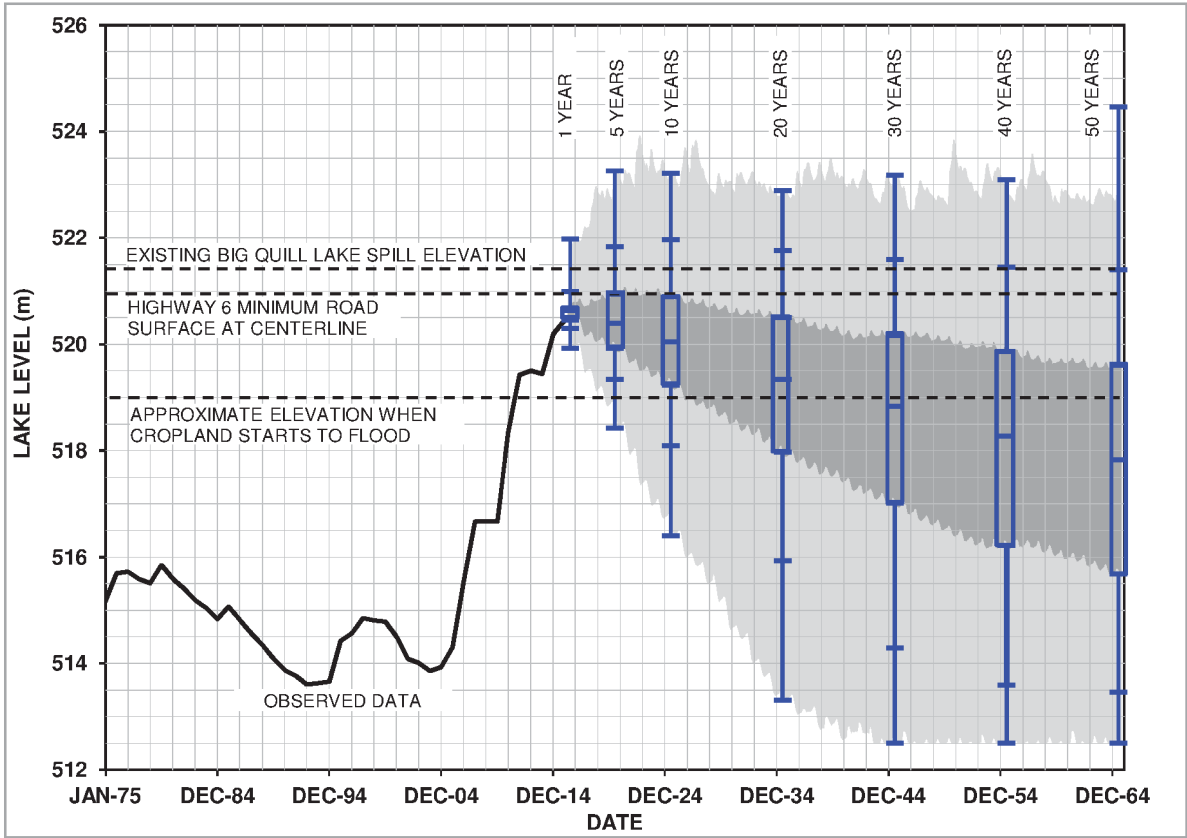


D) SIMULATED AVERAGE ANNUAL VOLUMES

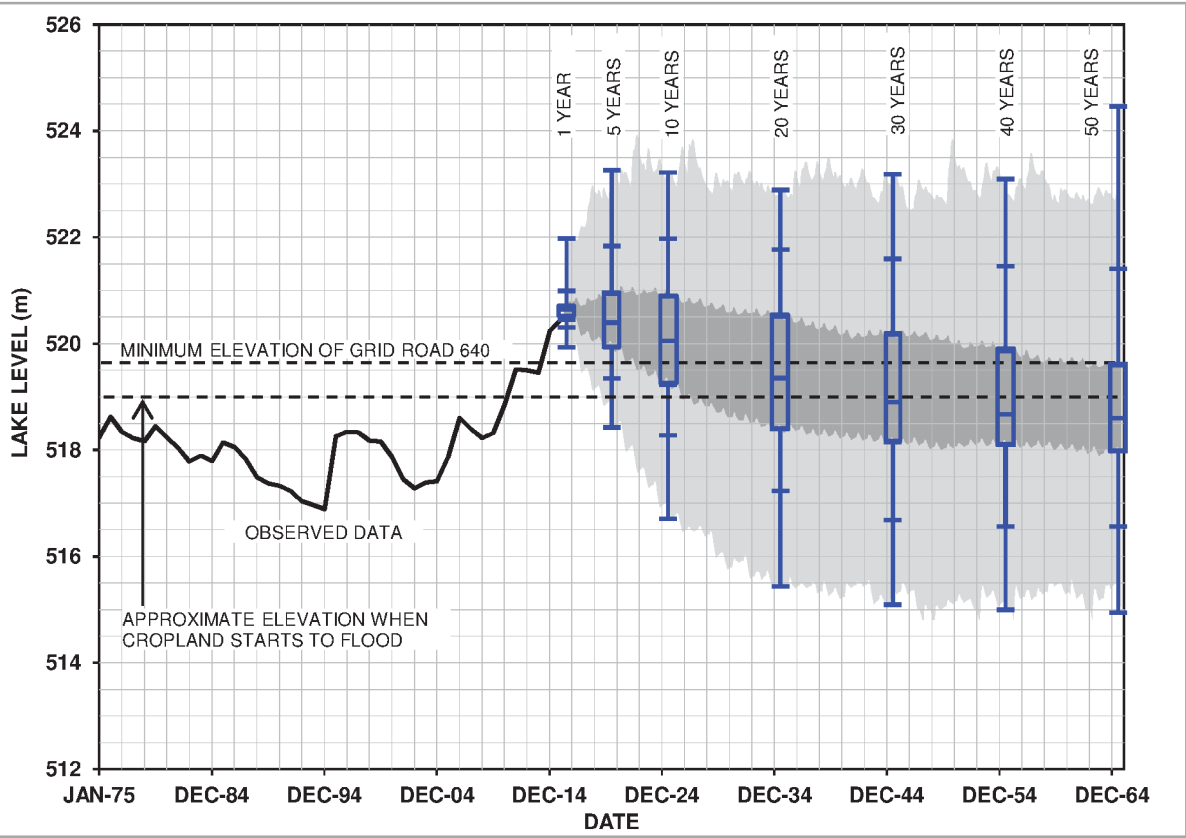


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

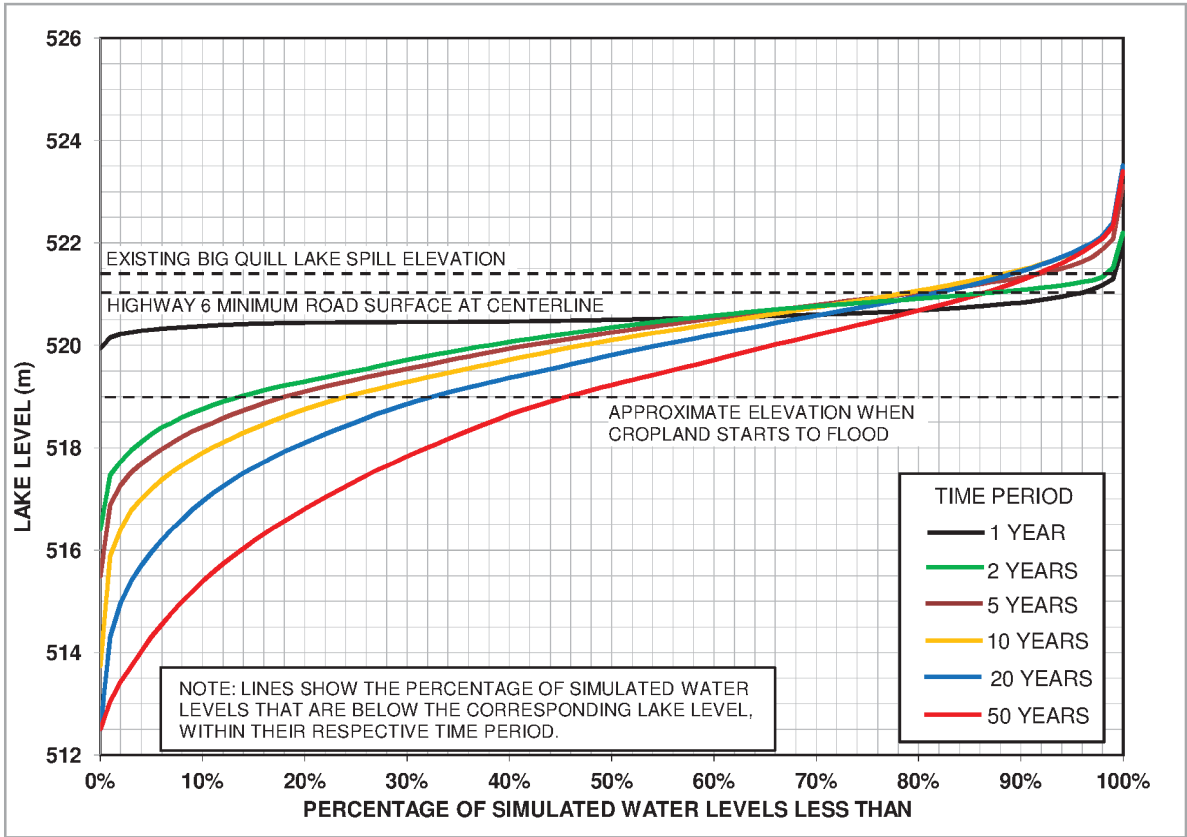
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PA
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHE BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS JANSEN LAKE, ROMANCE CREEK AND IRONSPRING CREEK DIVERSION OPTION				
NOVEMBER 2016		PLATE 14	REV:	0



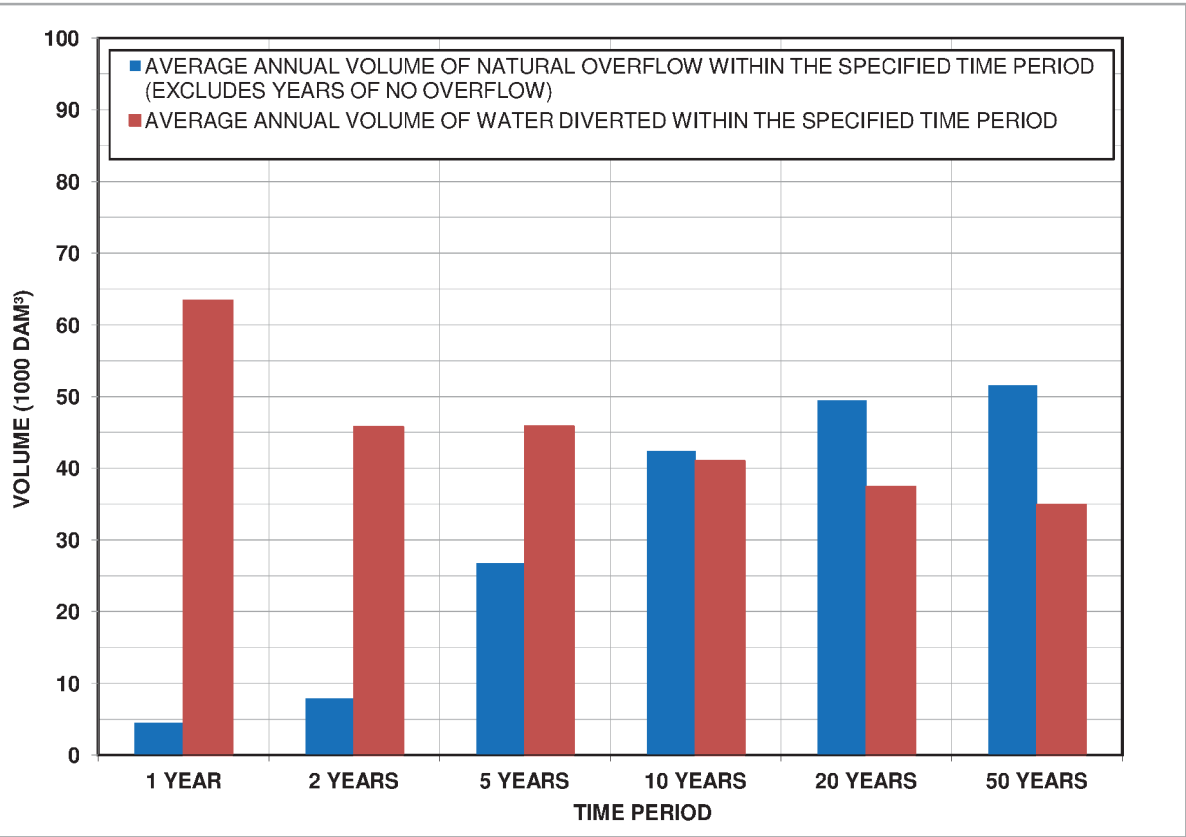
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



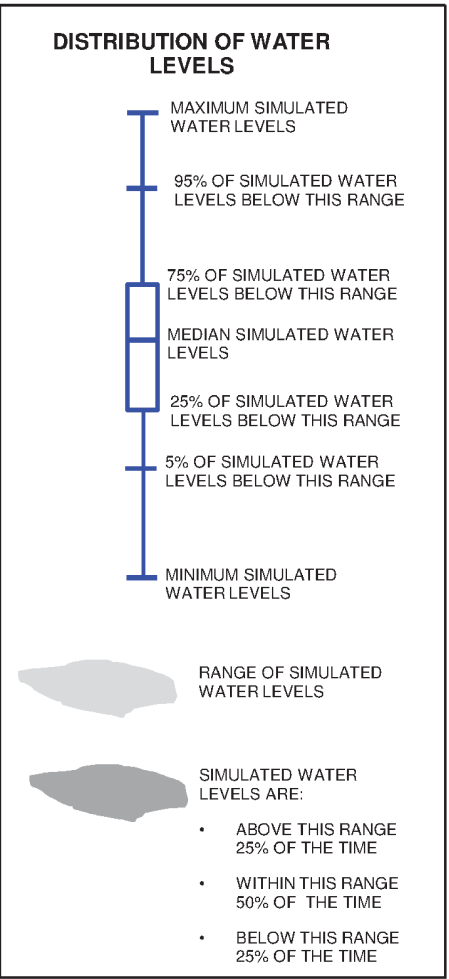
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE





C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

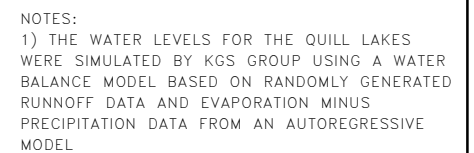




D) SIMULATED AVERAGE ANNUAL VOLUMES

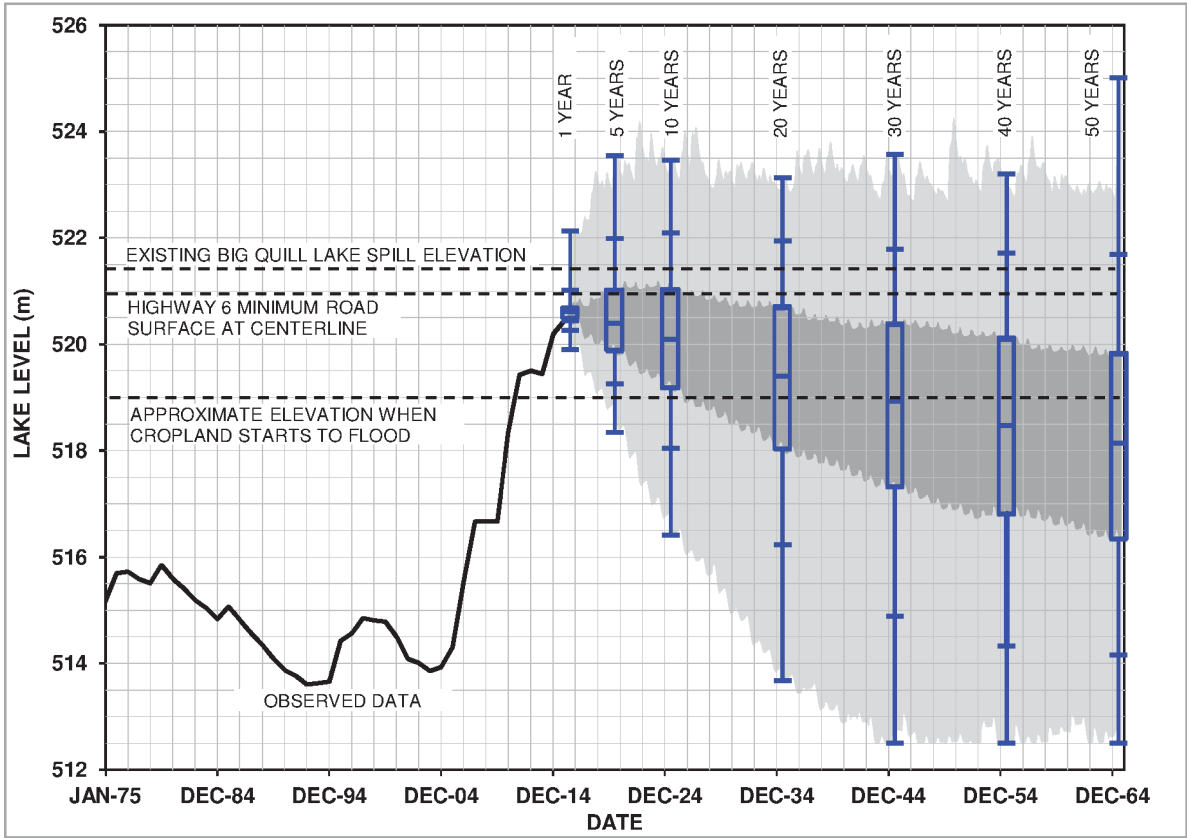


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

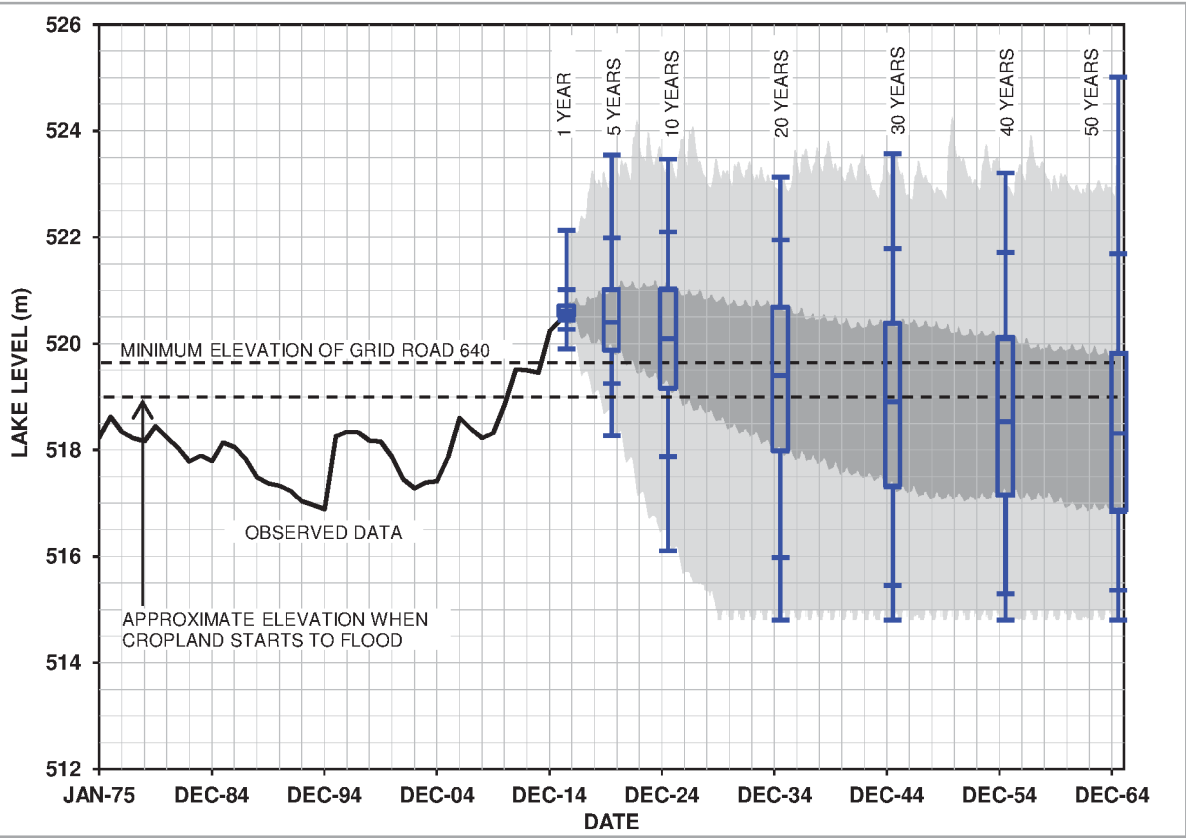
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS JANSEN LAKE, ROMANCE, IRONSPRING AND WIMMER BROOK DIVERSION OPTION				
NOVEMBER 2016		PLATE 15	REV:	0



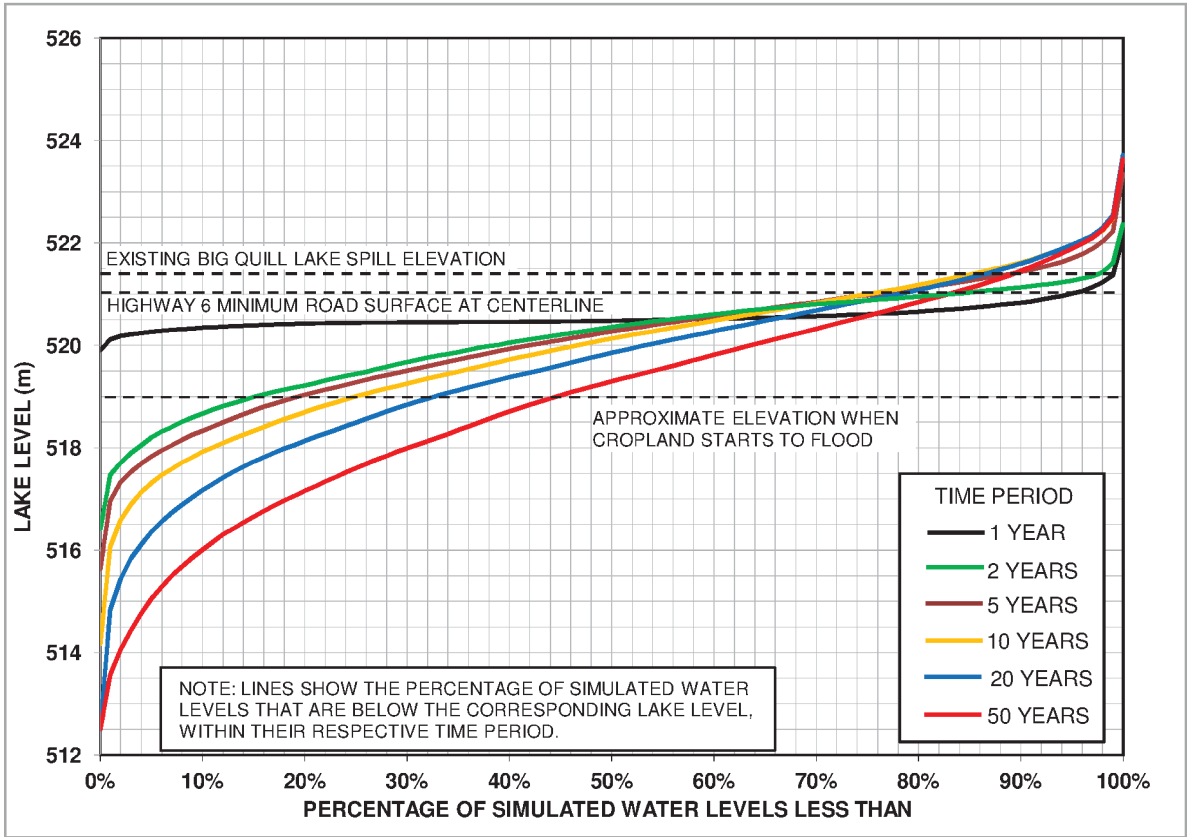
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS PONASS LAKE STORAGE OPTION				
NOVEMBER 2016		PLATE 16		REV: 0



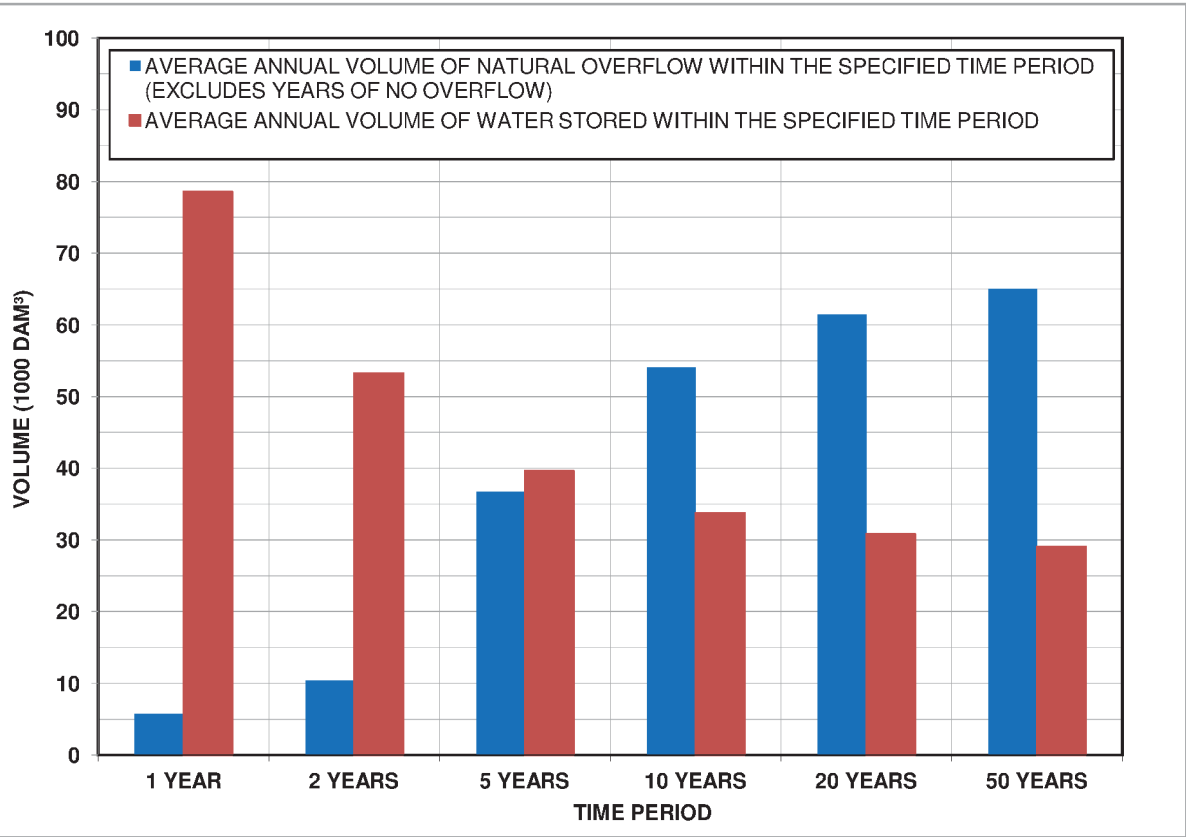
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



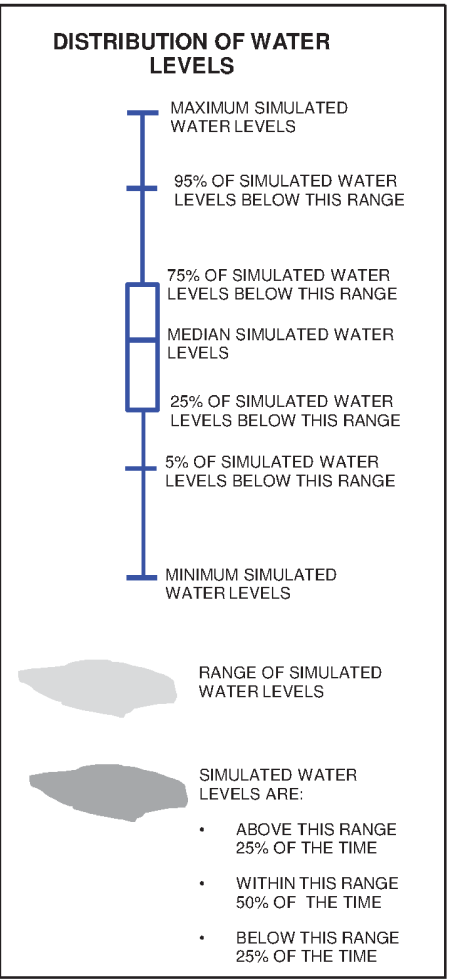
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE



C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE




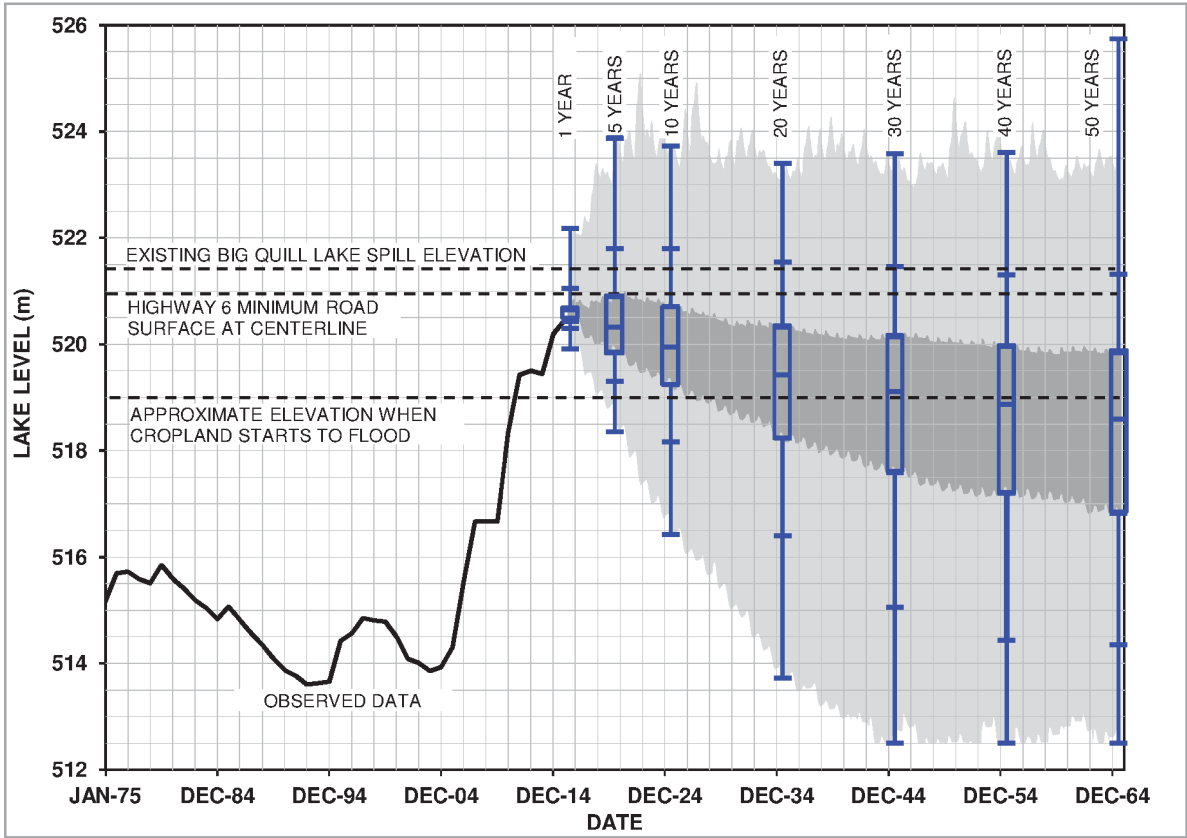
D) SIMULATED AVERAGE ANNUAL VOLUMES



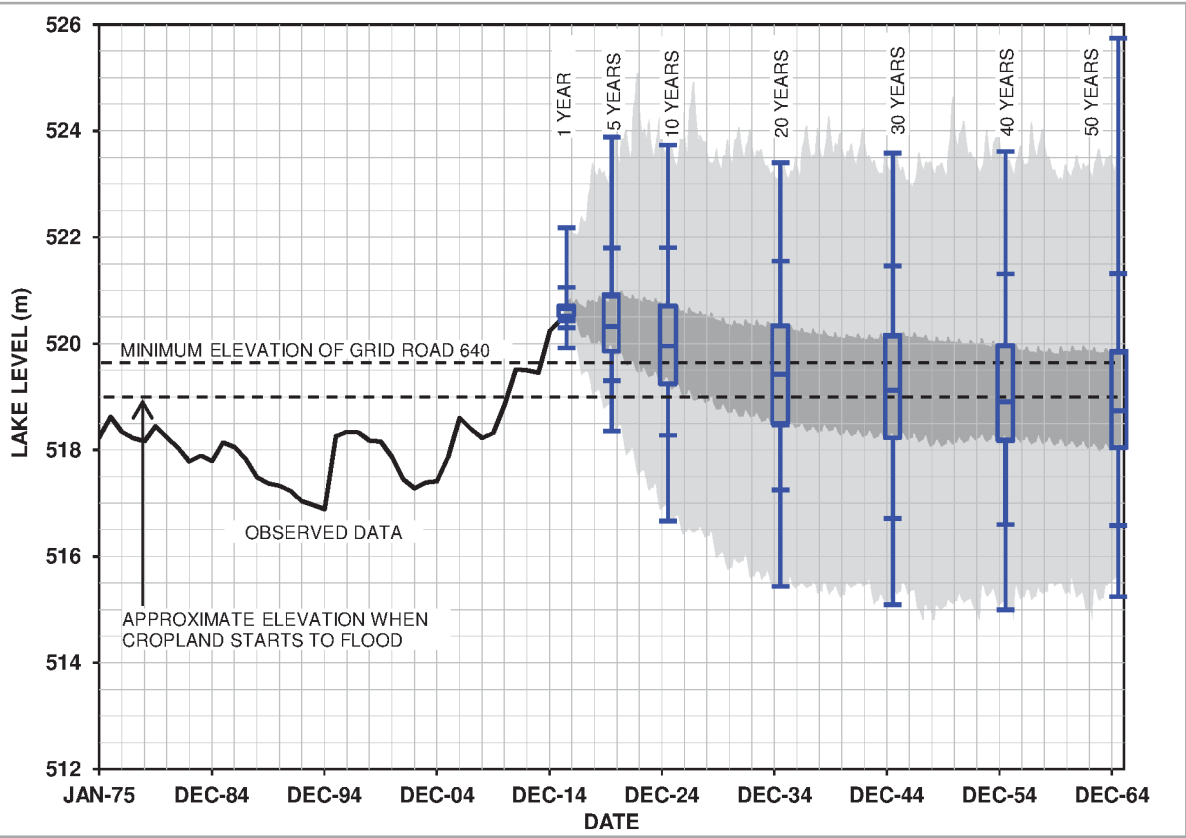
NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

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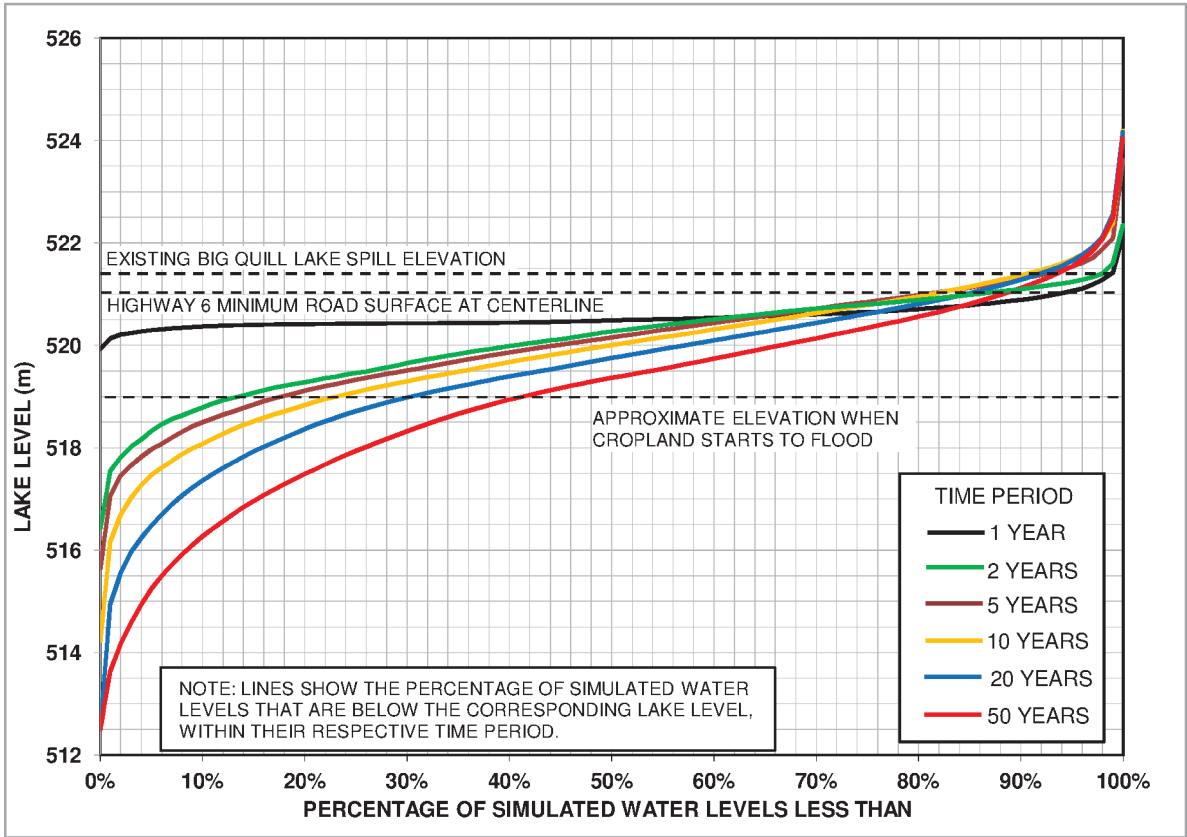
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS OTHER STORAGE OPTION				
NOVEMBER 2016		PLATE 17	REV:	0



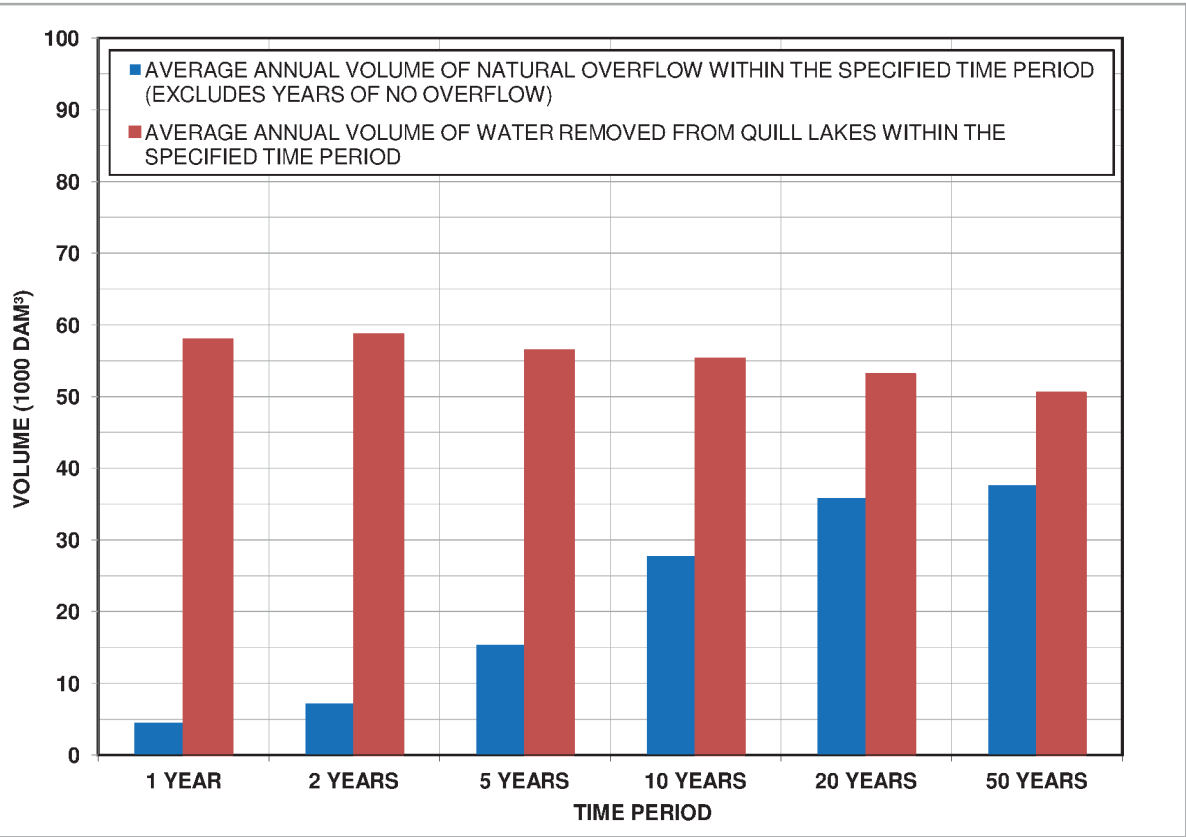
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



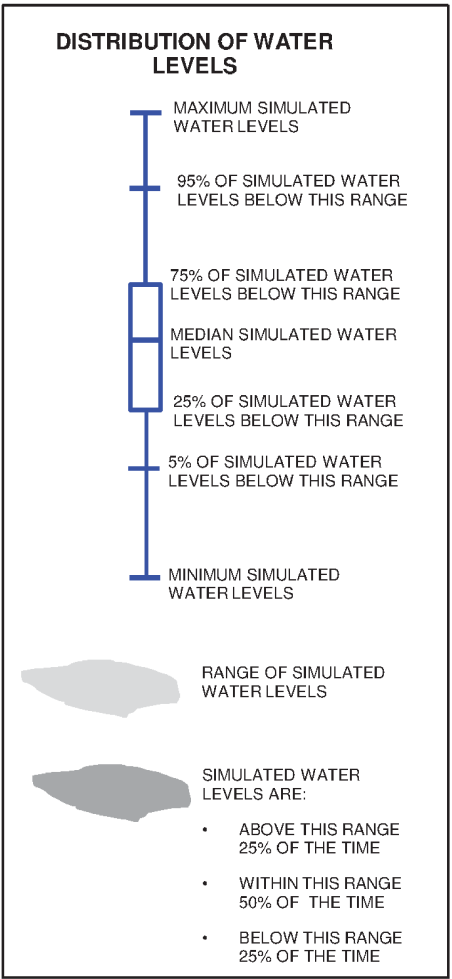
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE





C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

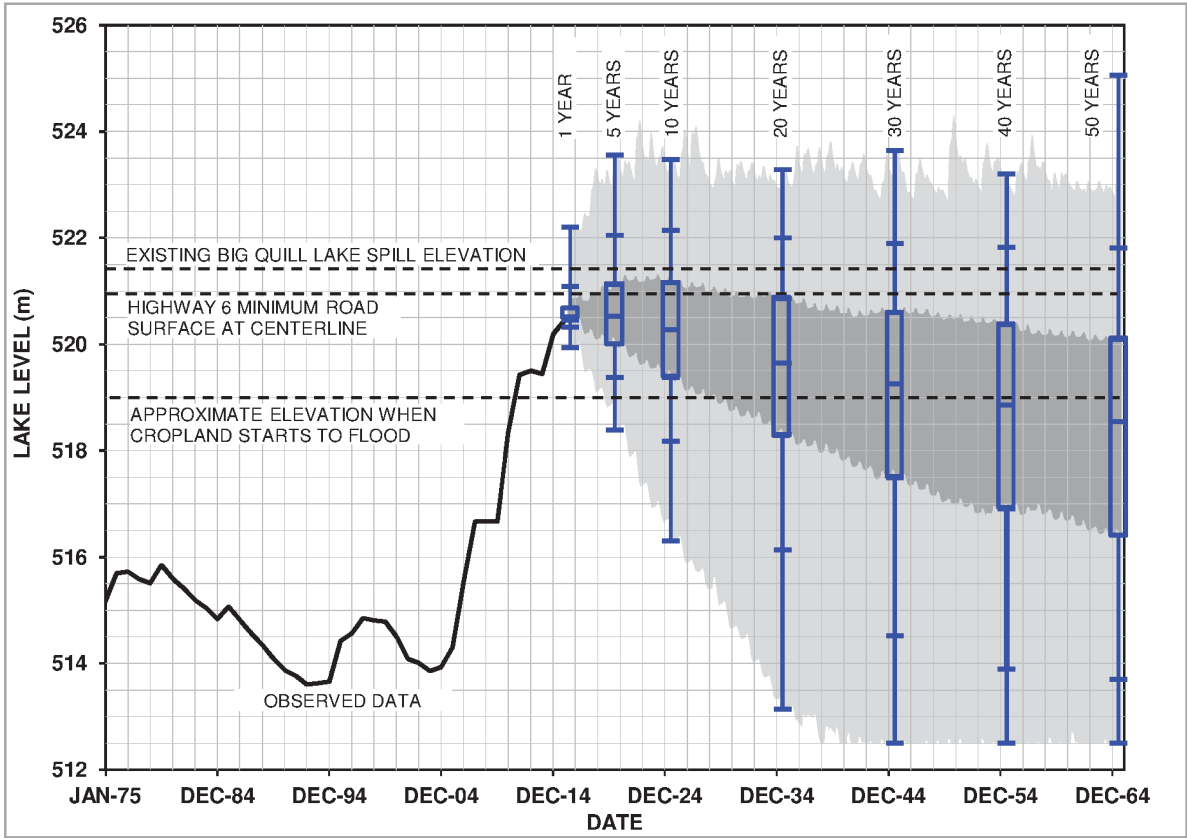


D) SIMULATED AVERAGE ANNUAL VOLUMES

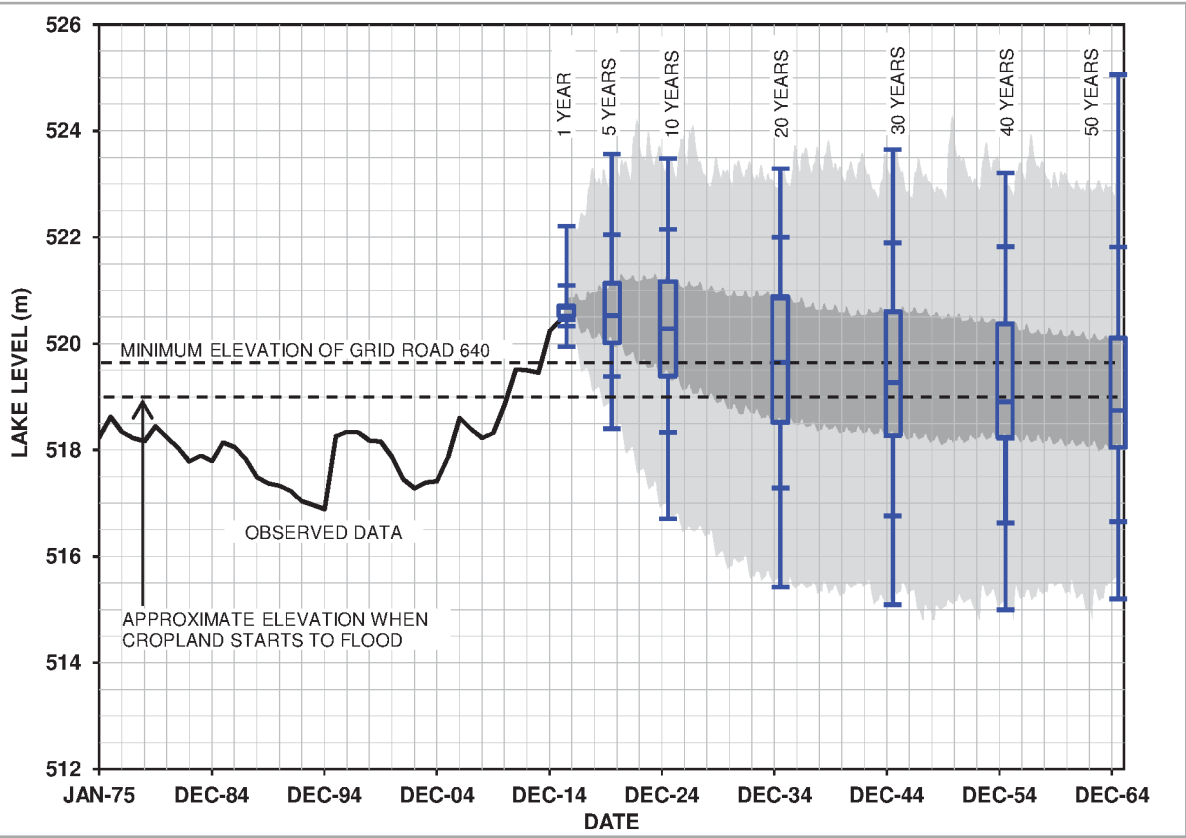


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

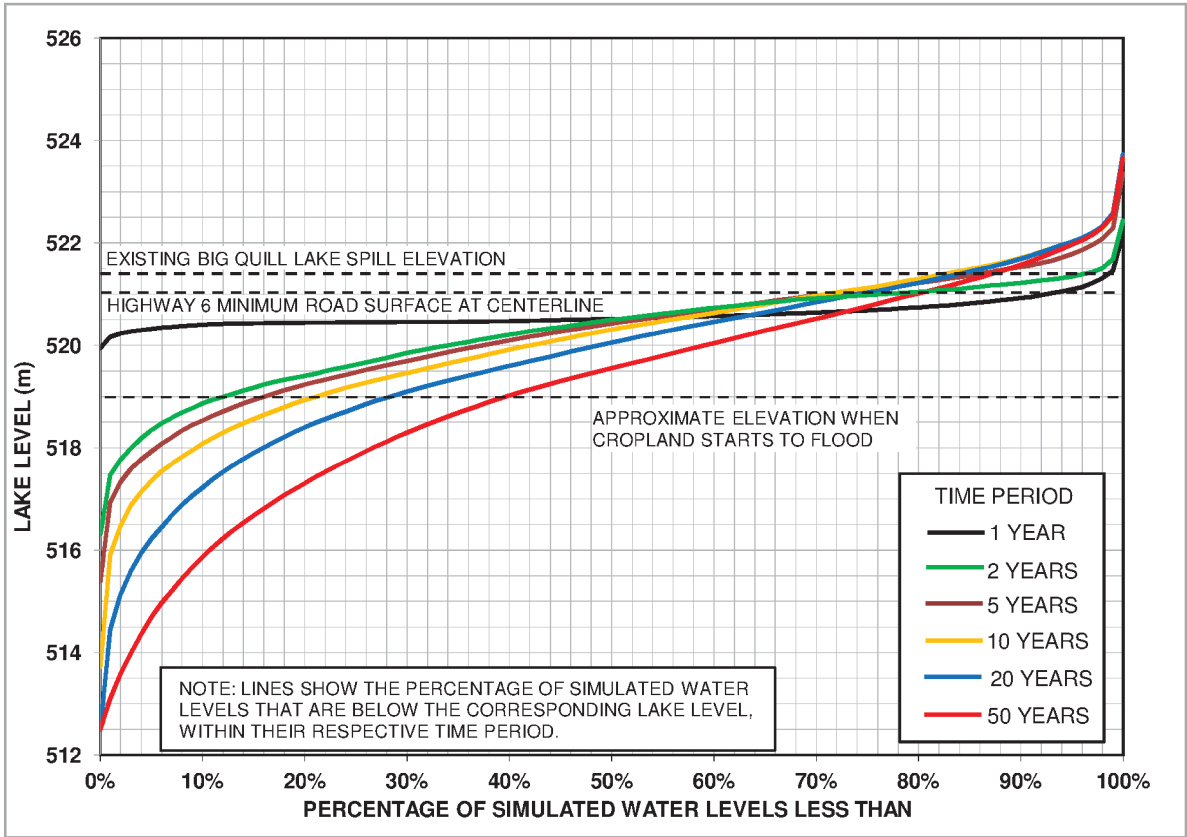
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS LANDOWNER PROPOSAL (PLAN B) OPTION				
NOVEMBER 2016		PLATE 18	REV:	0



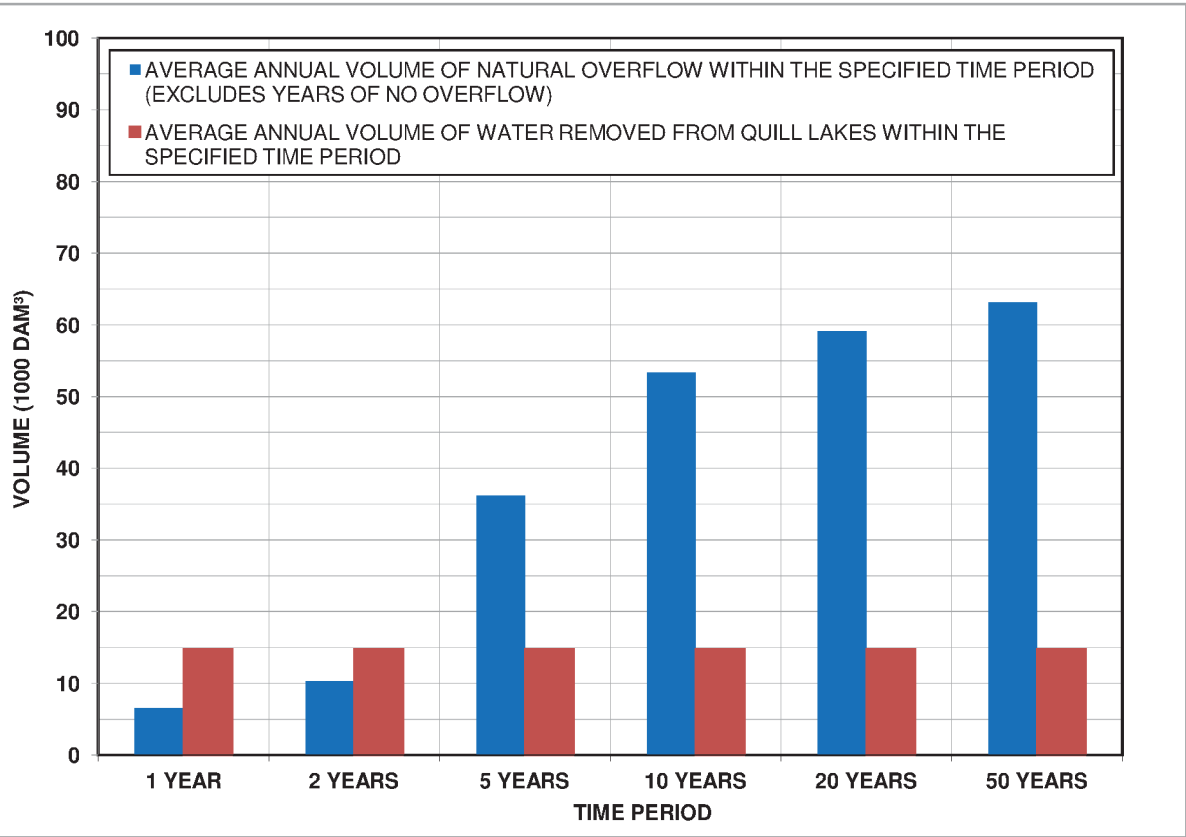
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



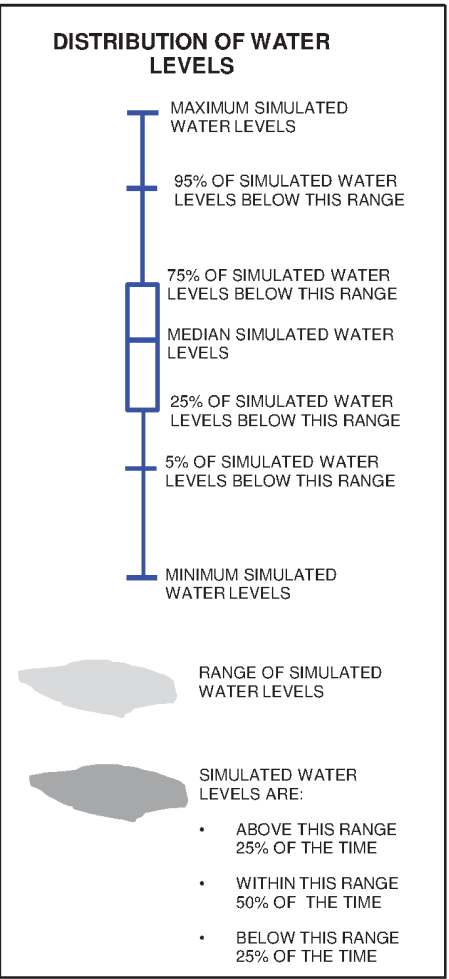
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

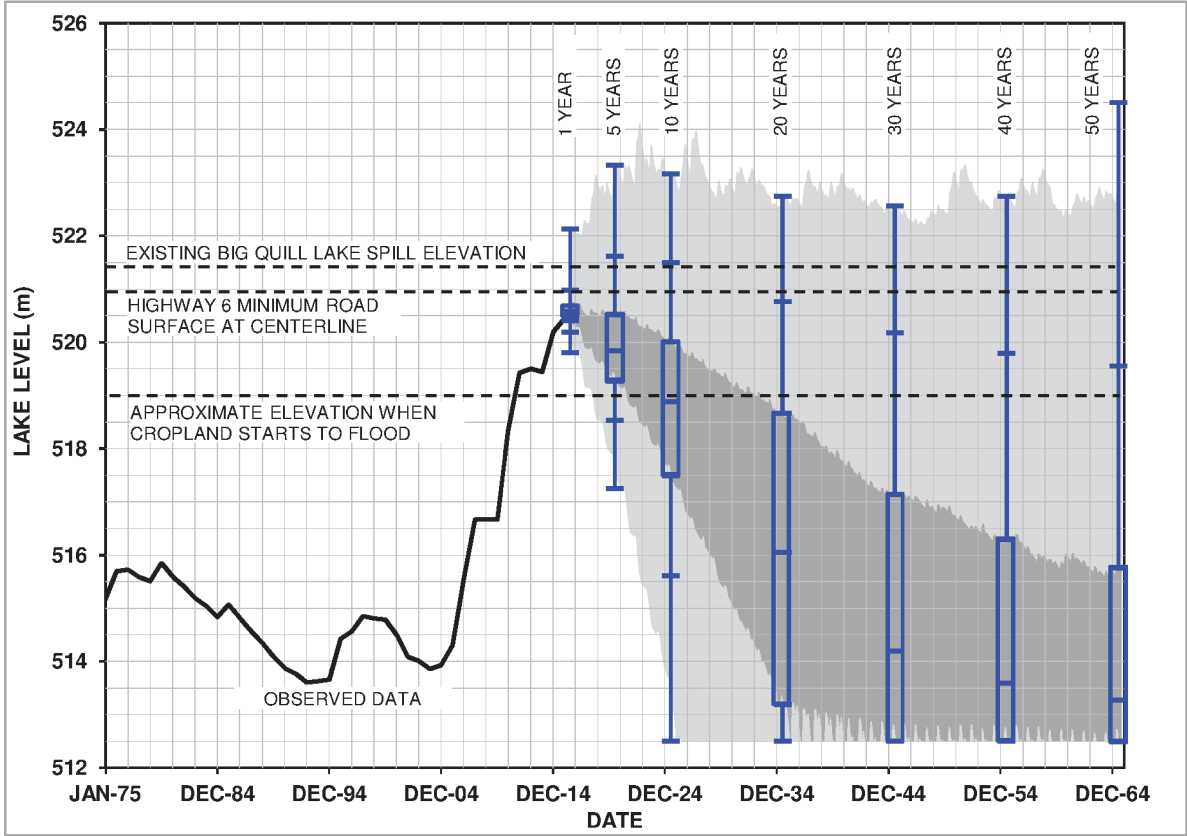


D) SIMULATED AVERAGE ANNUAL VOLUMES

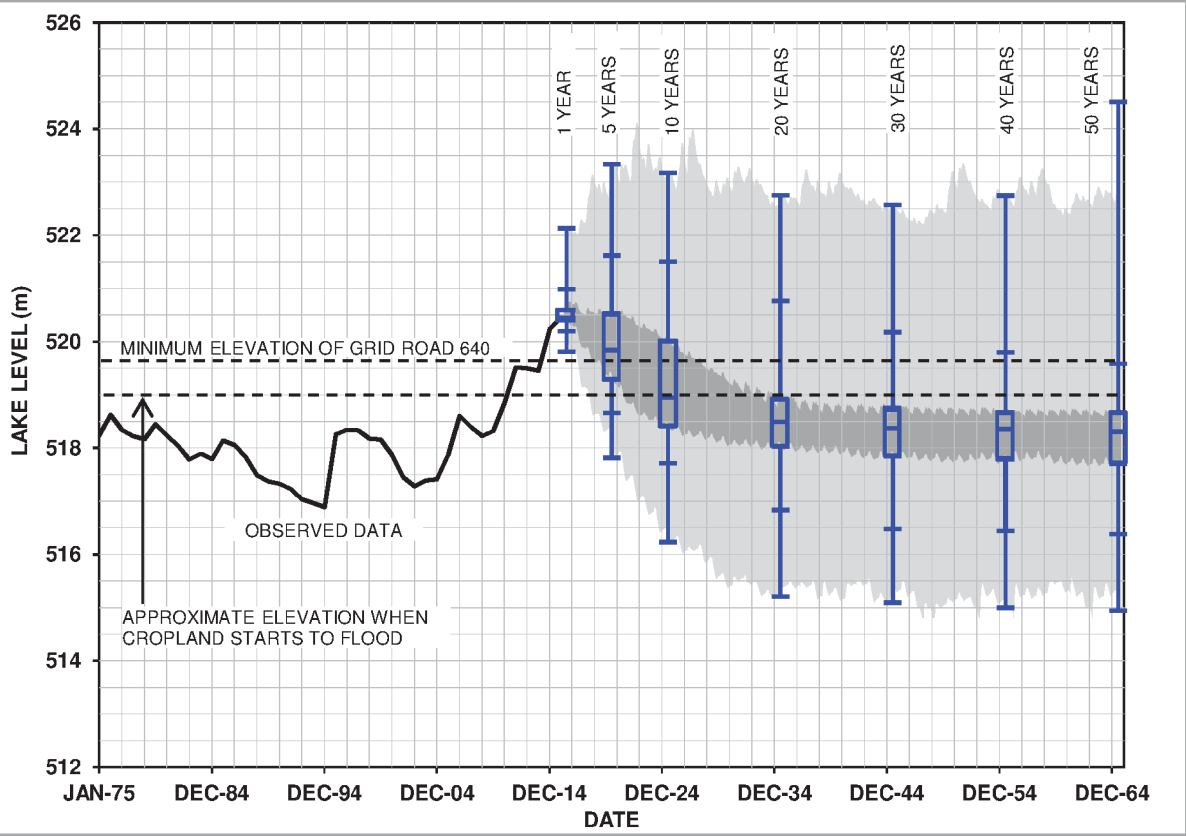


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

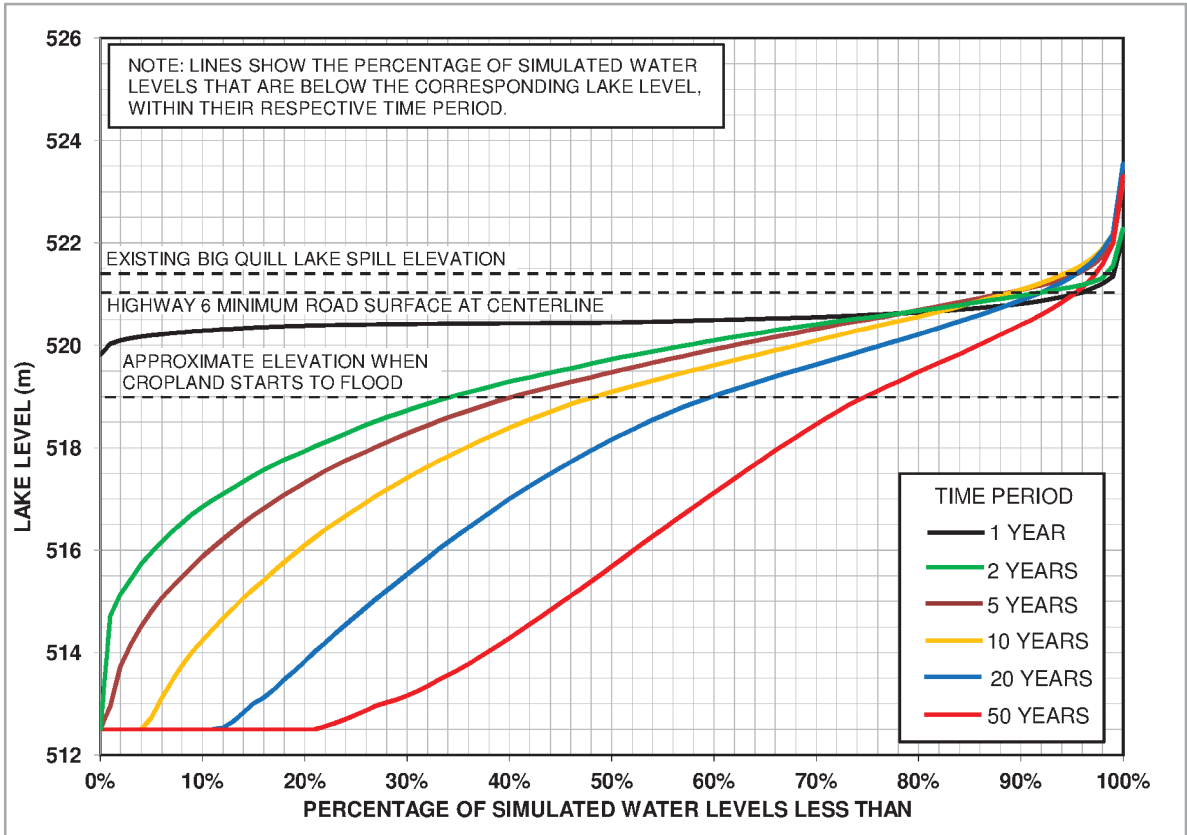
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS DEEP WELL INJECTION OPTION (Q = 0.47 m ³ /s)				
NOVEMBER 2016		PLATE 19	REV:	0



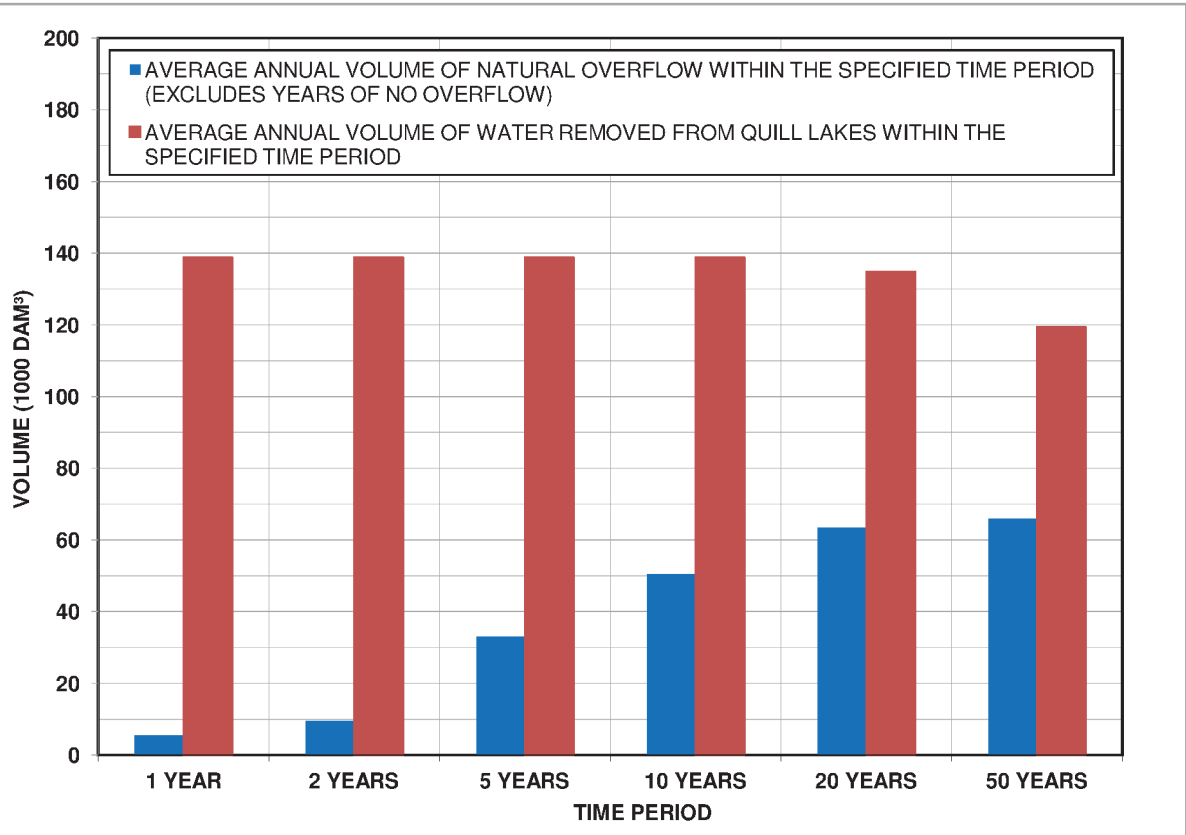
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



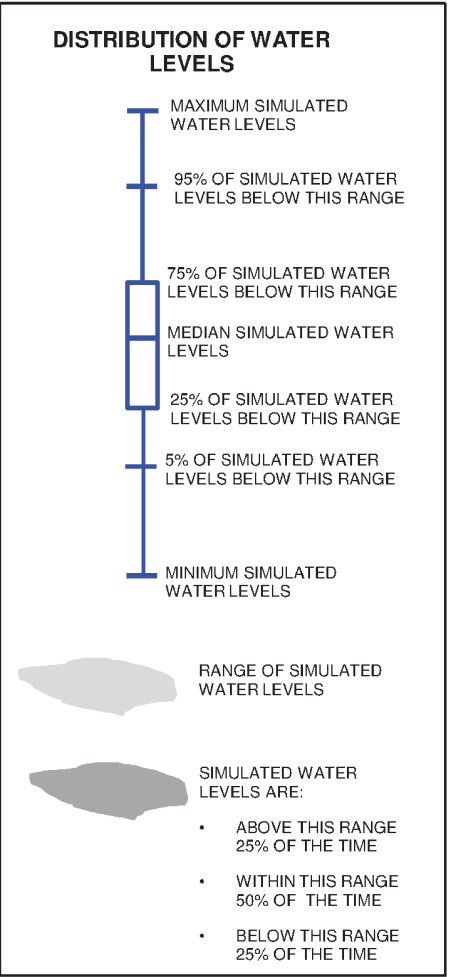
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

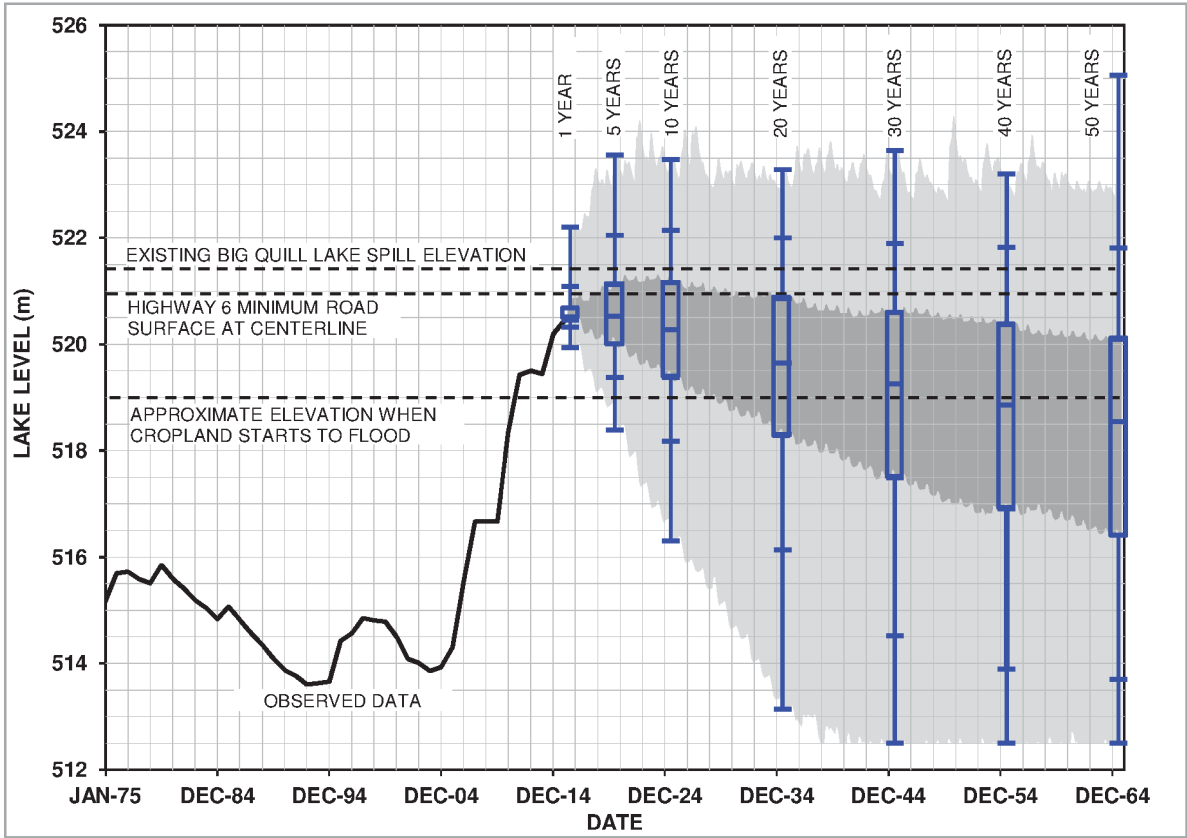


D) SIMULATED AVERAGE ANNUAL VOLUMES

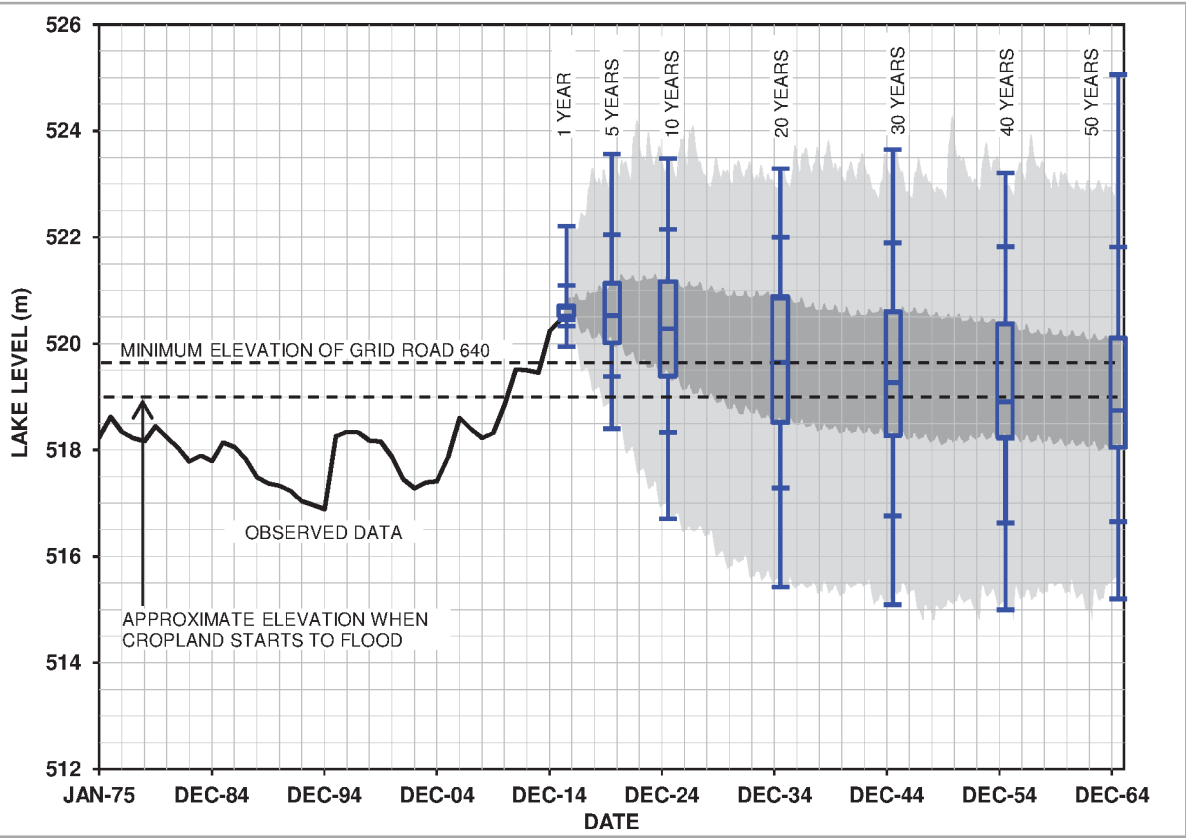


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

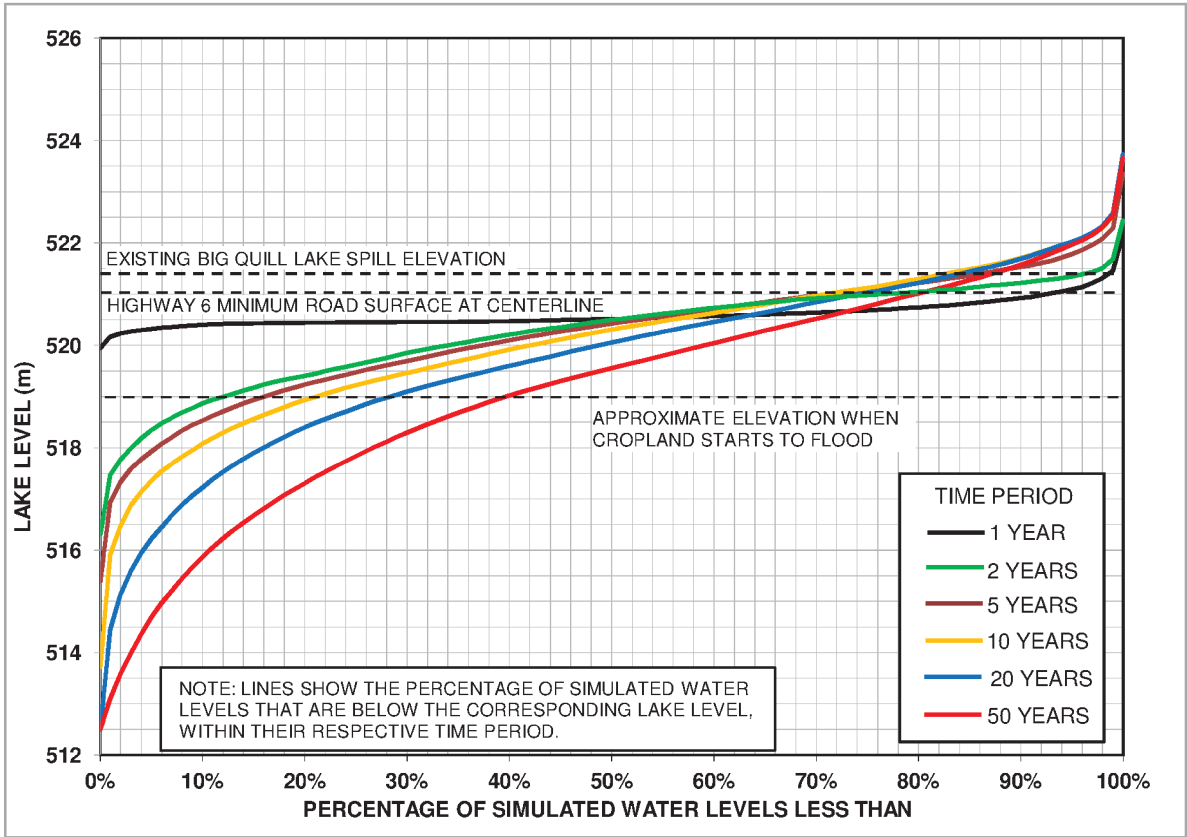
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PA
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS DEEP WELL INJECTION OPTION (Q = 4.4 m ³ /s)				
NOVEMBER 2016		PLATE 20	REV:	0



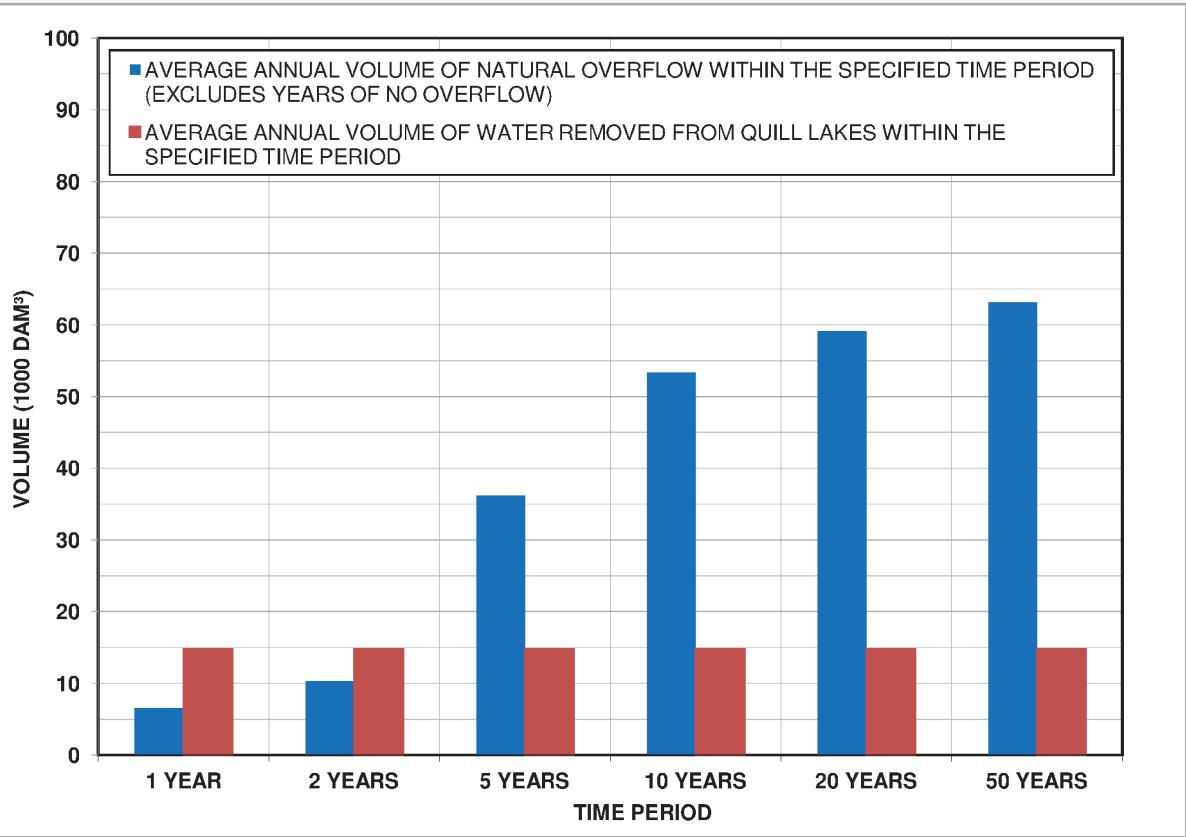
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



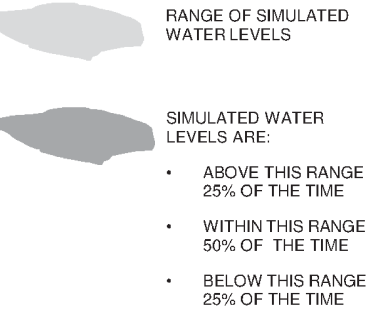
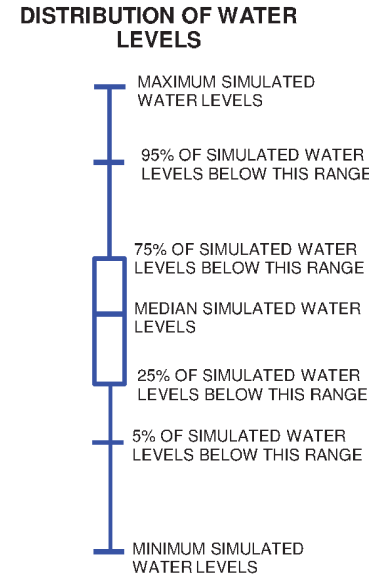
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE



C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE



D) SIMULATED AVERAGE ANNUAL VOLUMES



NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

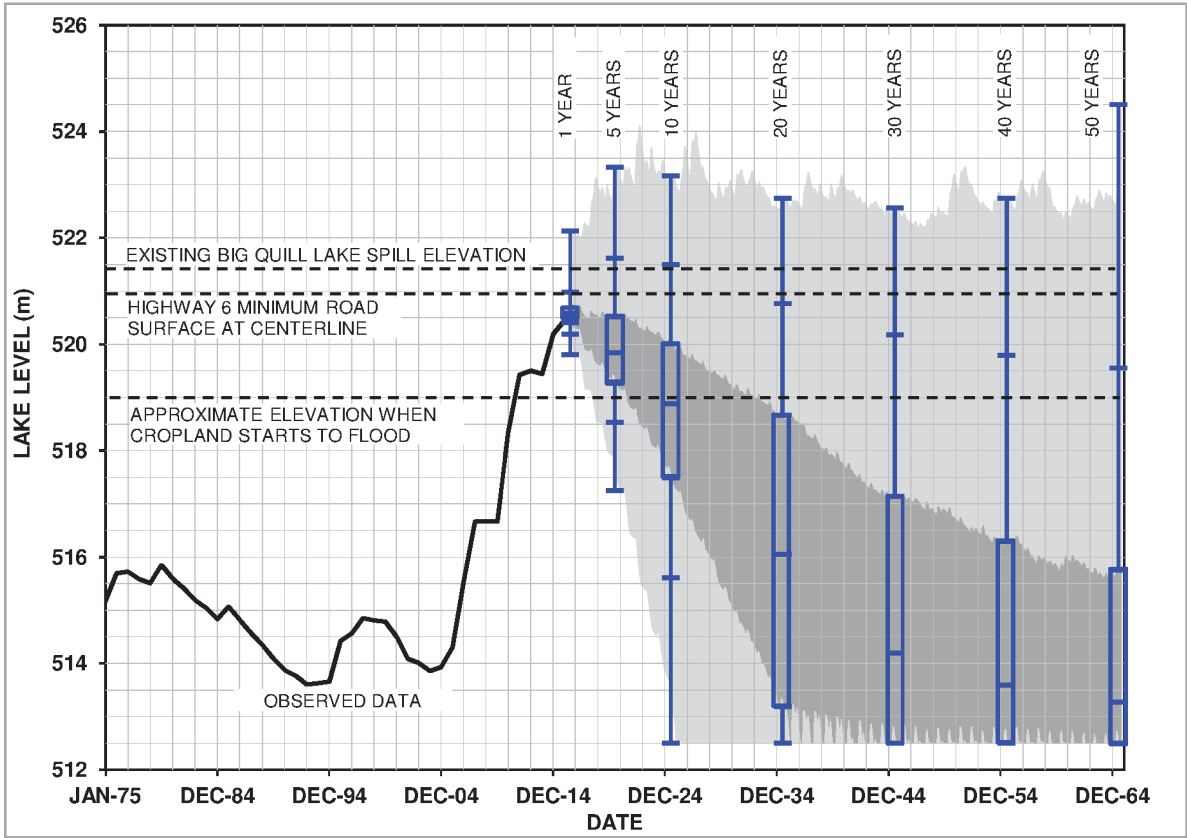
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

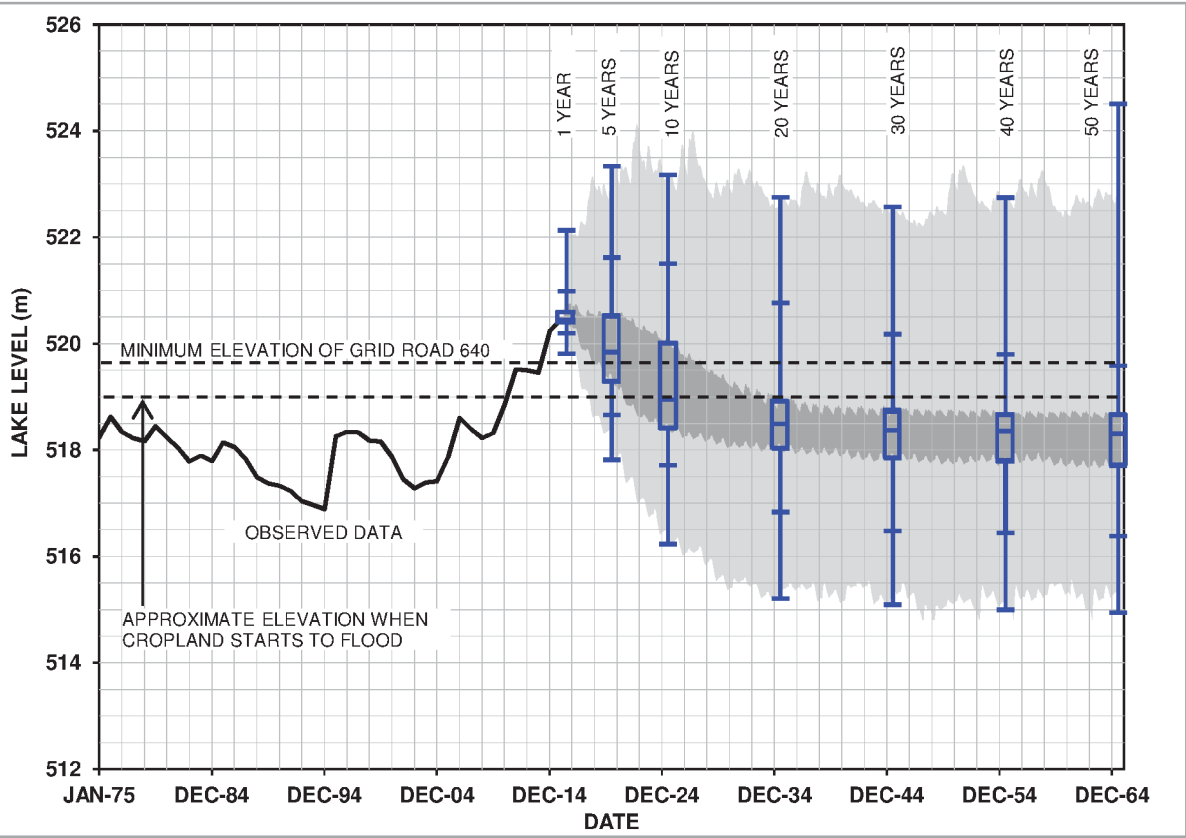
KGS
GROUP
CONSULTING
ENGINEERS

QUILL LAKES FLOOD MITIGATION STUDY

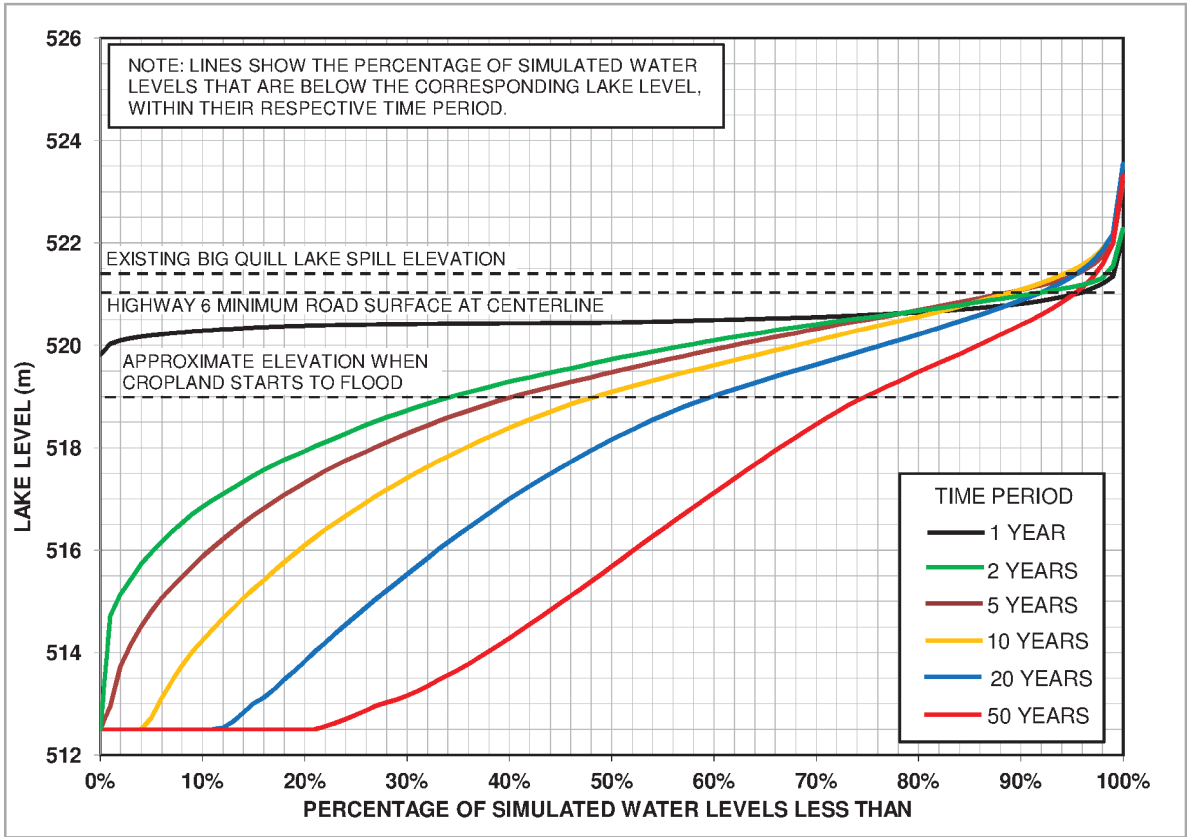
SUMMARY OF MODEL RESULTS PUMP WATER TO ANOTHER WATERSHED OPTION ($Q = 0.47 \text{ m}^3/\text{s}$)			
NOVEMBER 2016	PLATE 21	REV:	0



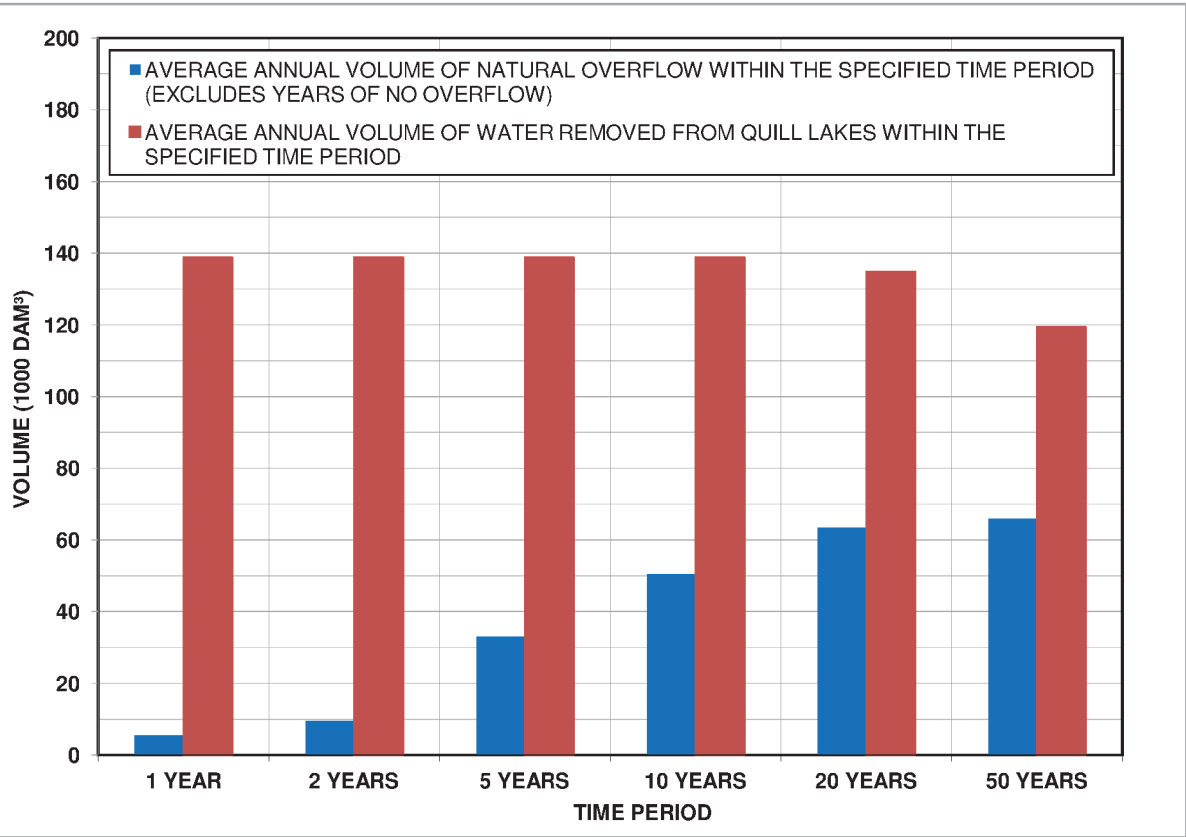
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



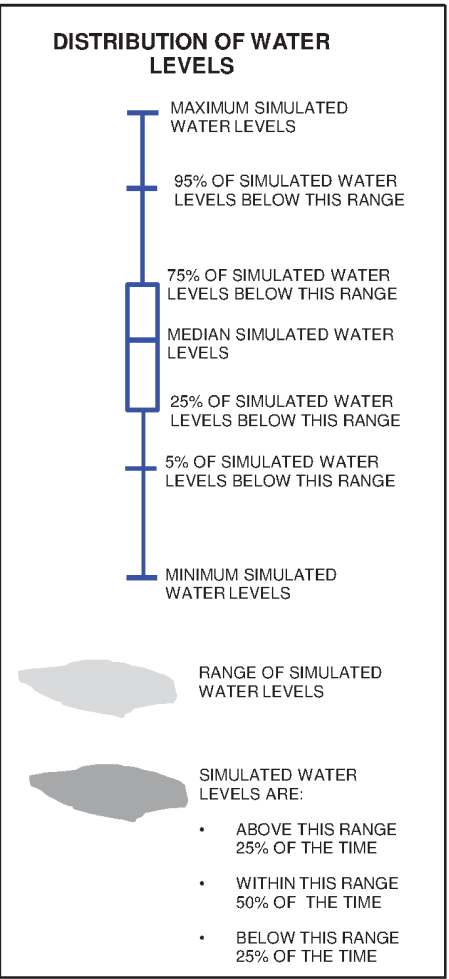
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE





C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

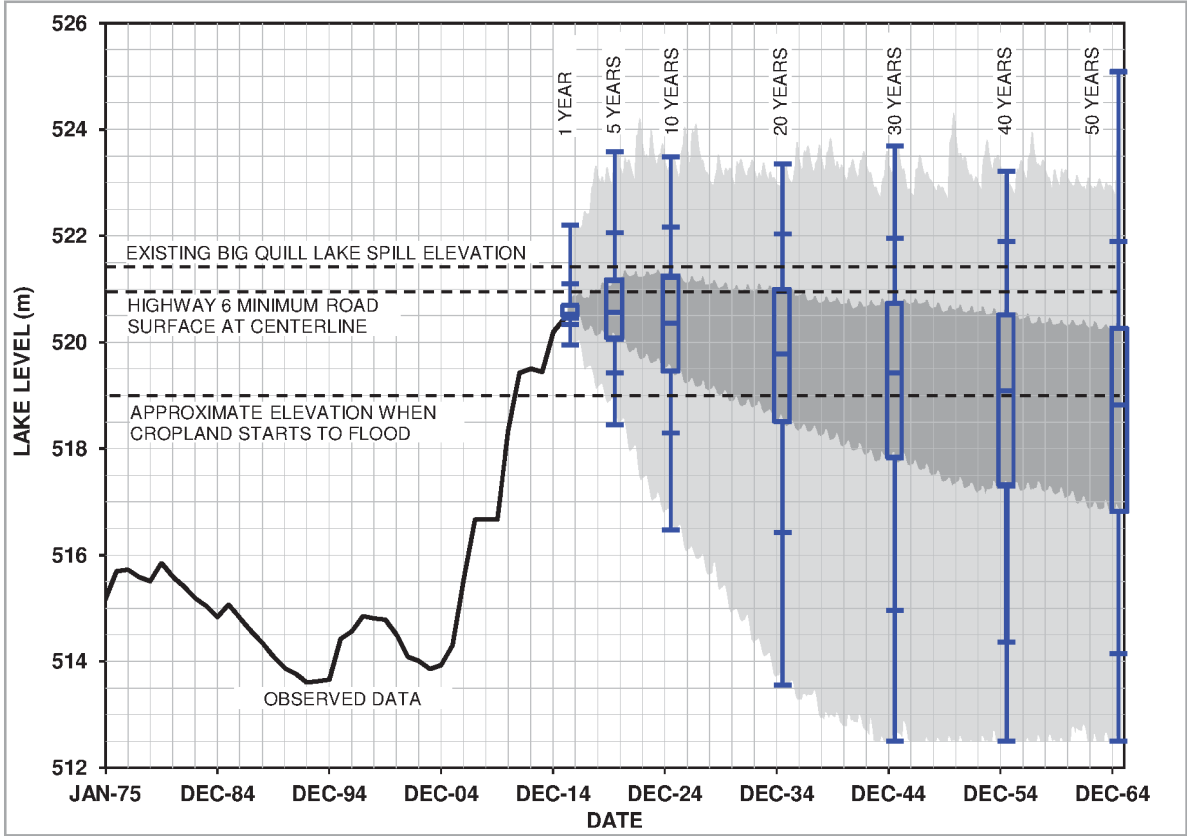


D) SIMULATED AVERAGE ANNUAL VOLUMES

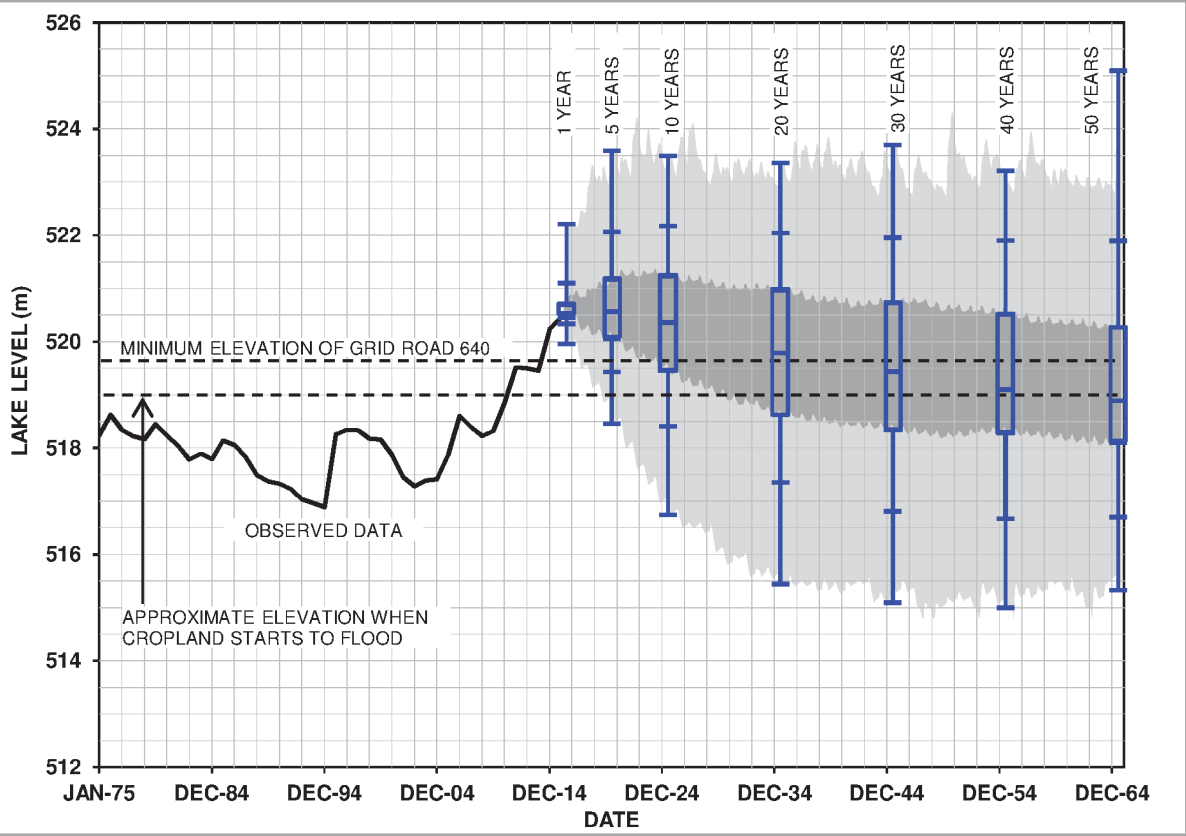


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

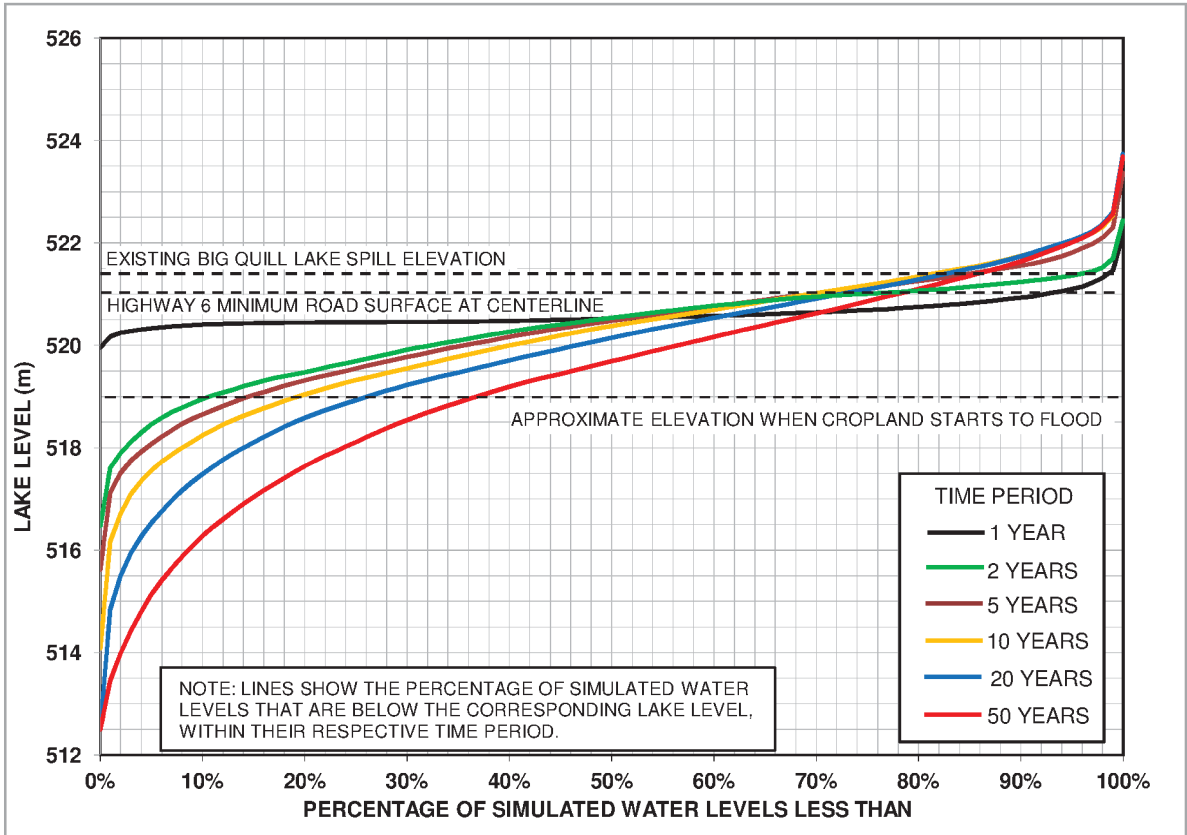
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS PUMP WATER TO ANOTHER WATERSHED OPTION ($Q = 4.4 \text{ m}^3/\text{s}$)				
NOVEMBER 2016		PLATE 22	REV:	0



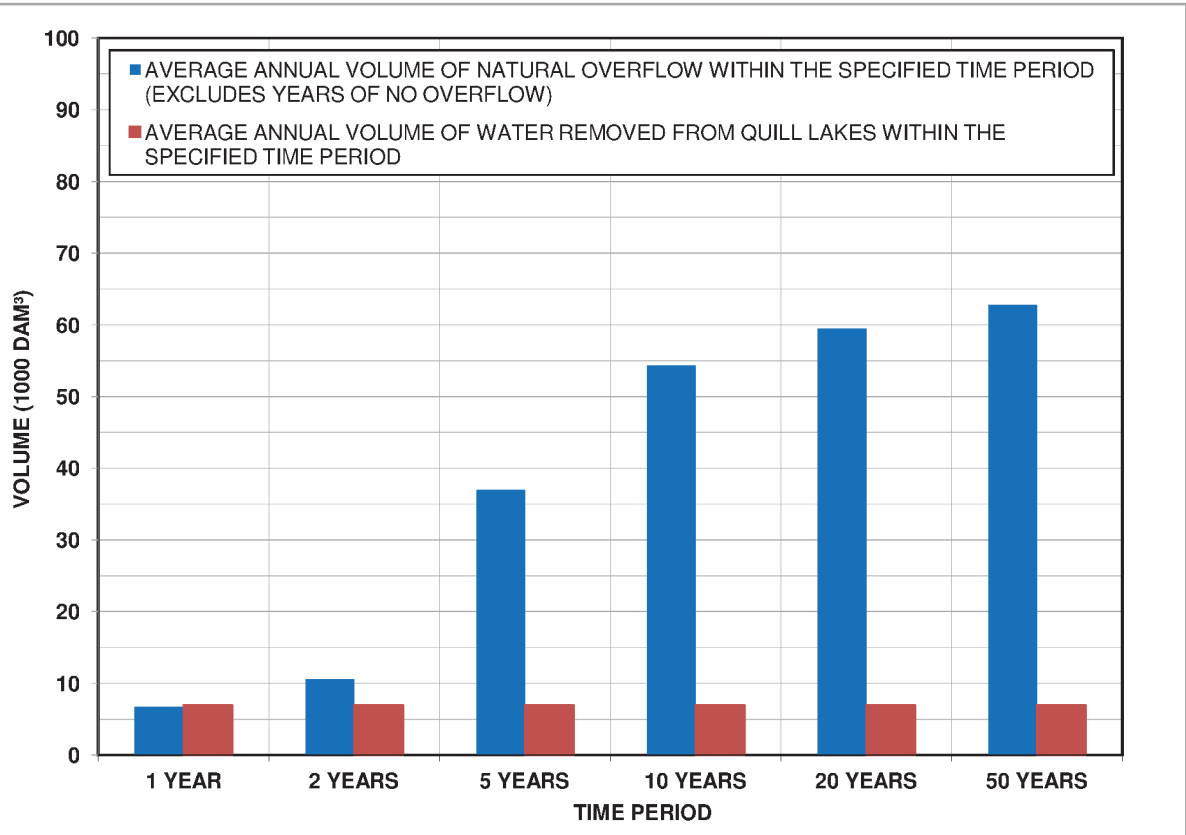
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



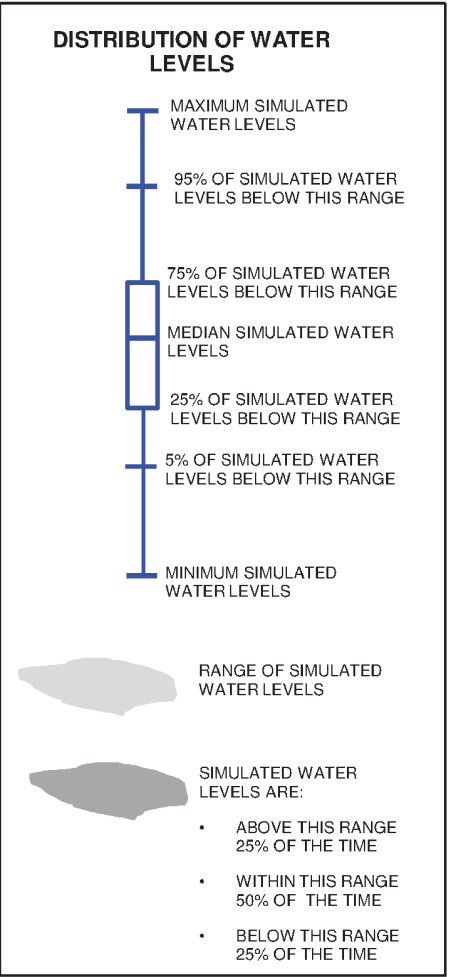
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE

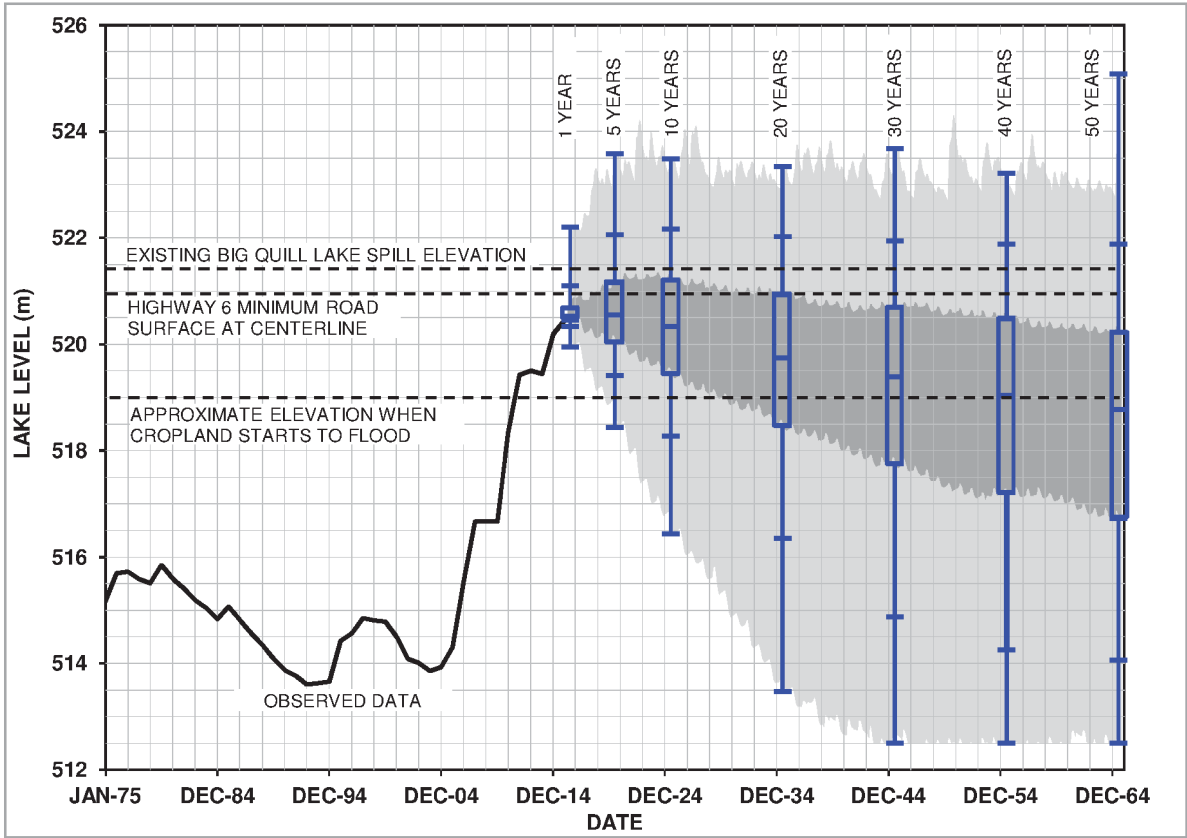


D) SIMULATED AVERAGE ANNUAL VOLUMES

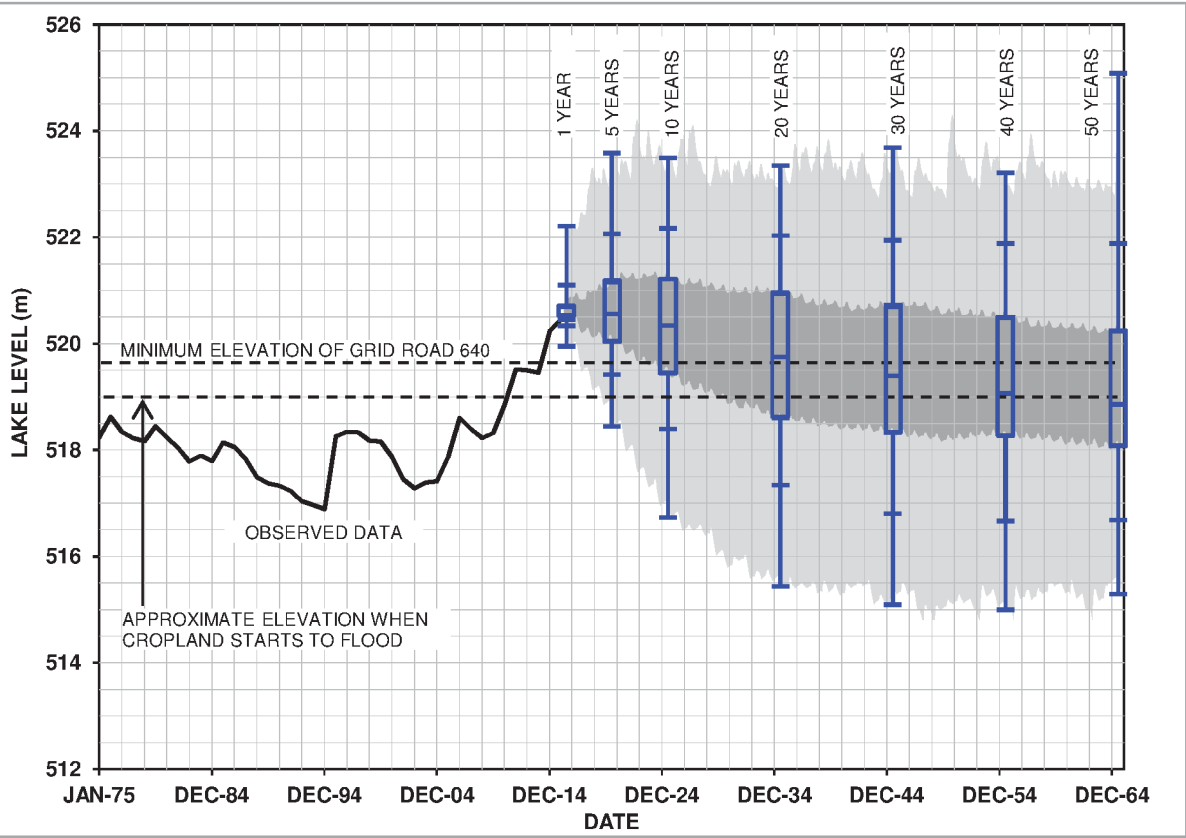


NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

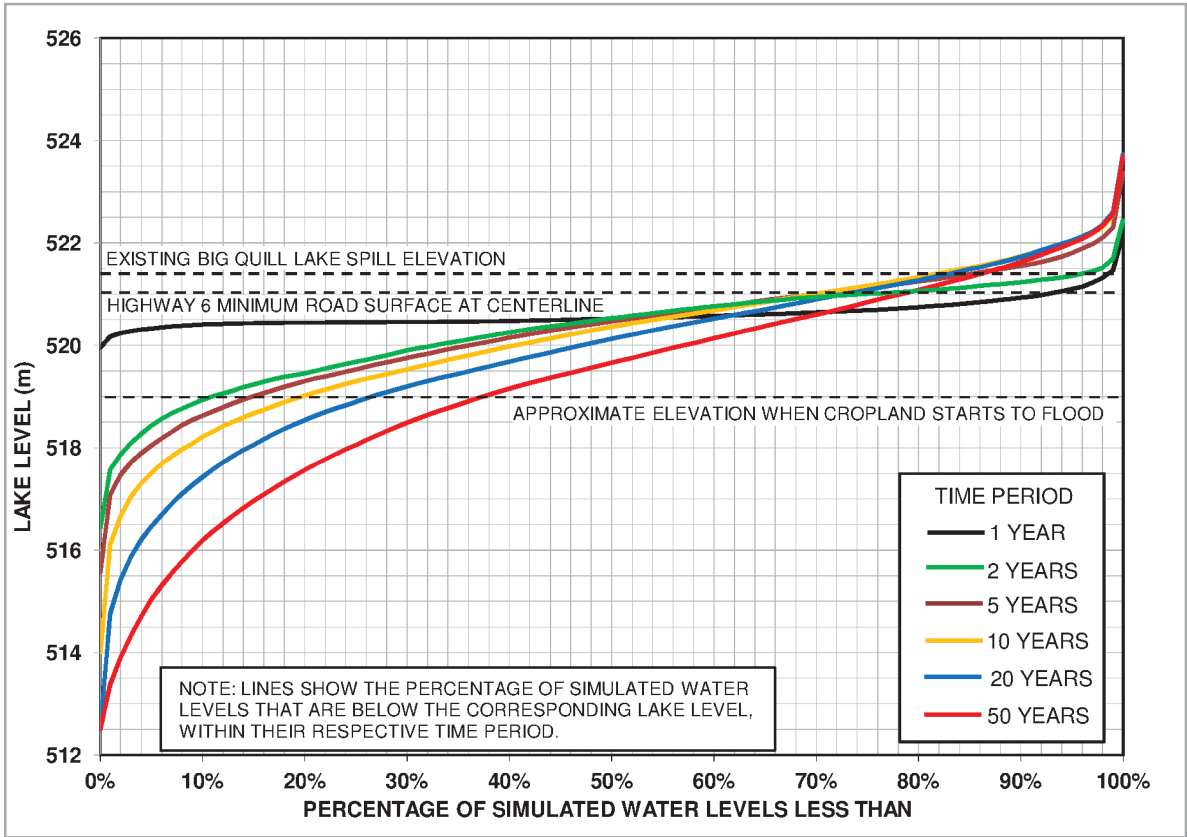
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PA
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS WITHDRAW WATER FOR BHP JANSEN LAKE OPTION ($Q = 0.22 \text{ m}^3/\text{s}$)				
NOVEMBER 2016		PLATE 23	REV:	0



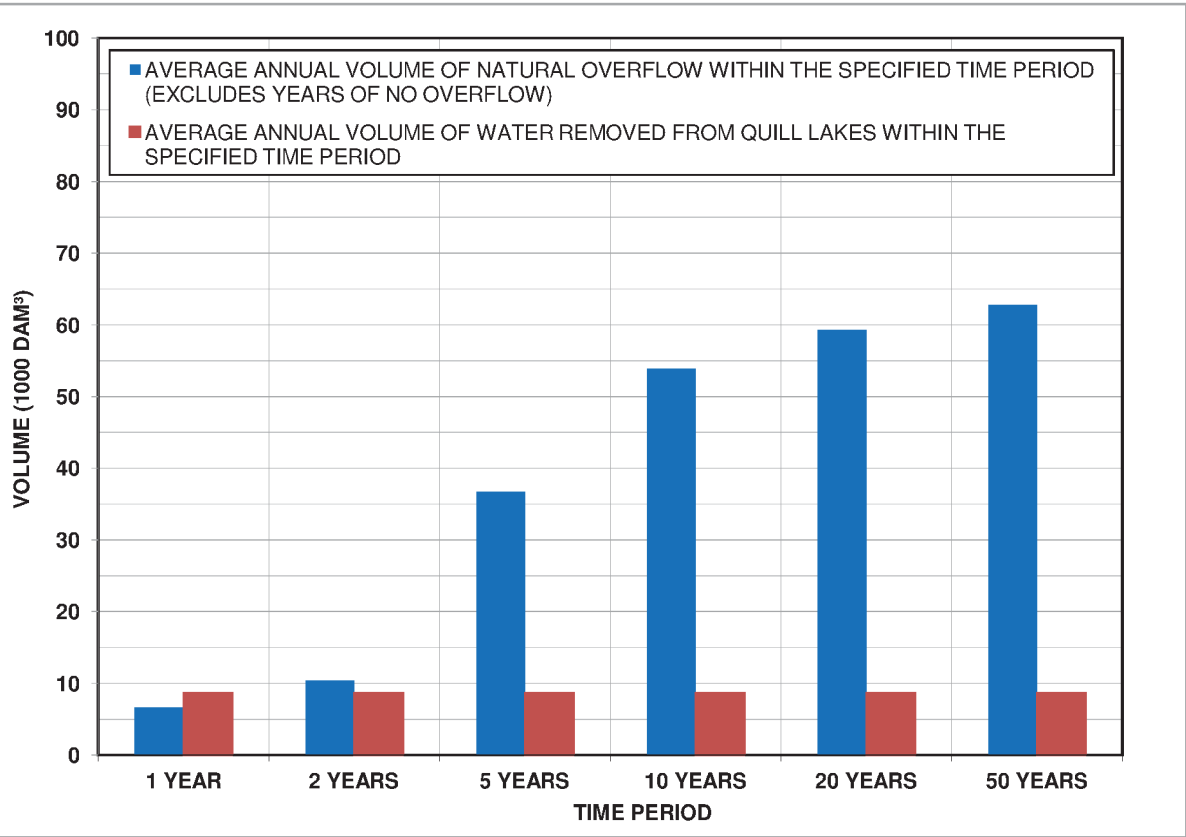
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



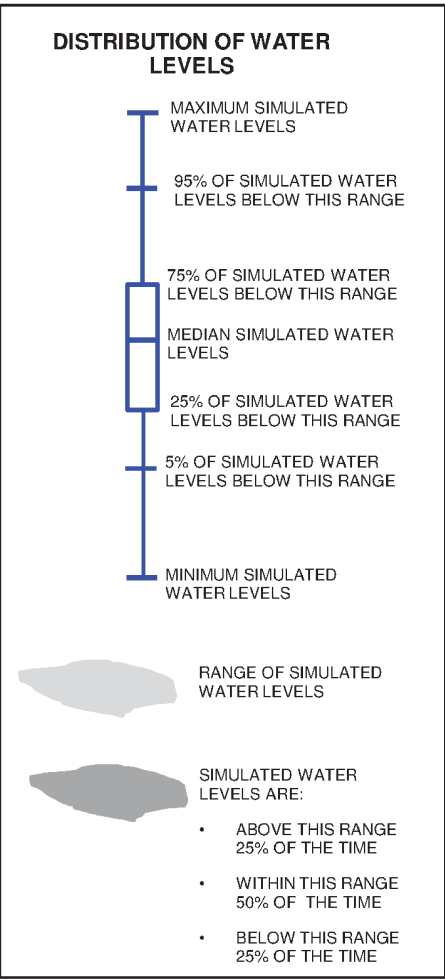
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE



C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE




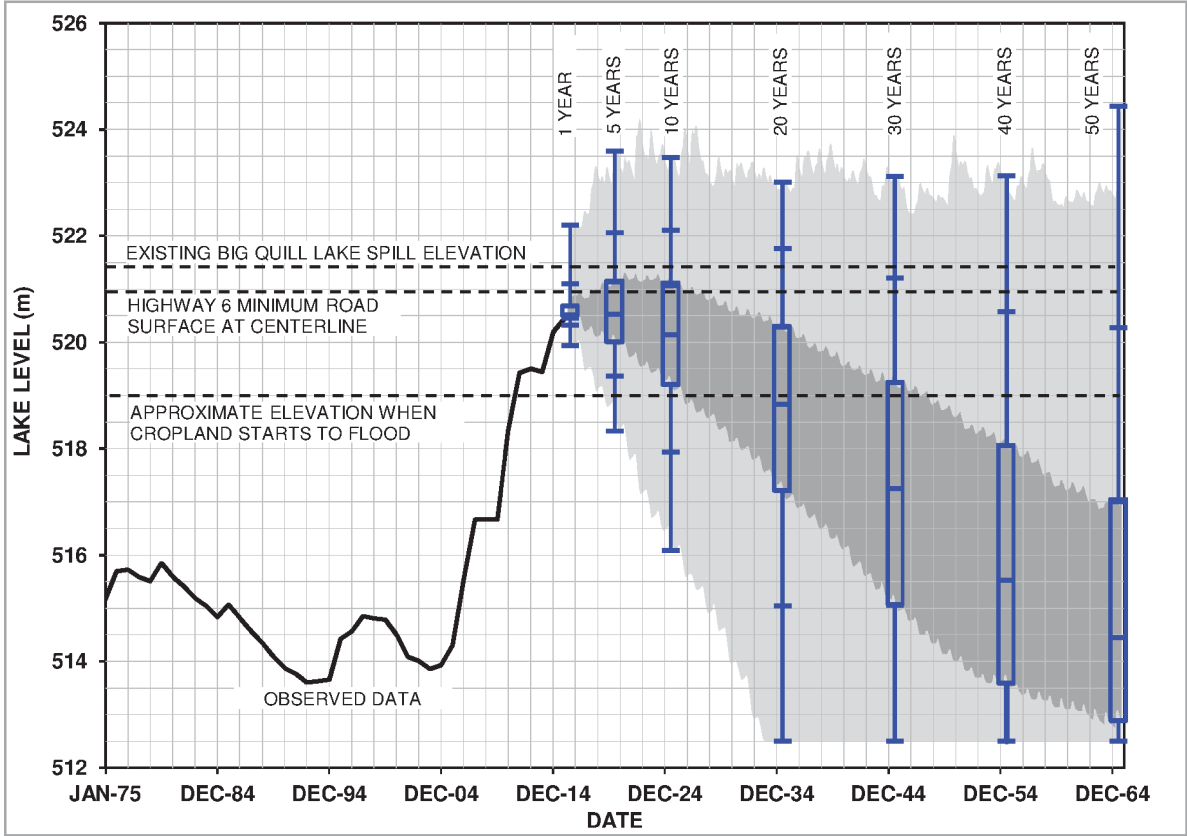
D) SIMULATED AVERAGE ANNUAL VOLUMES



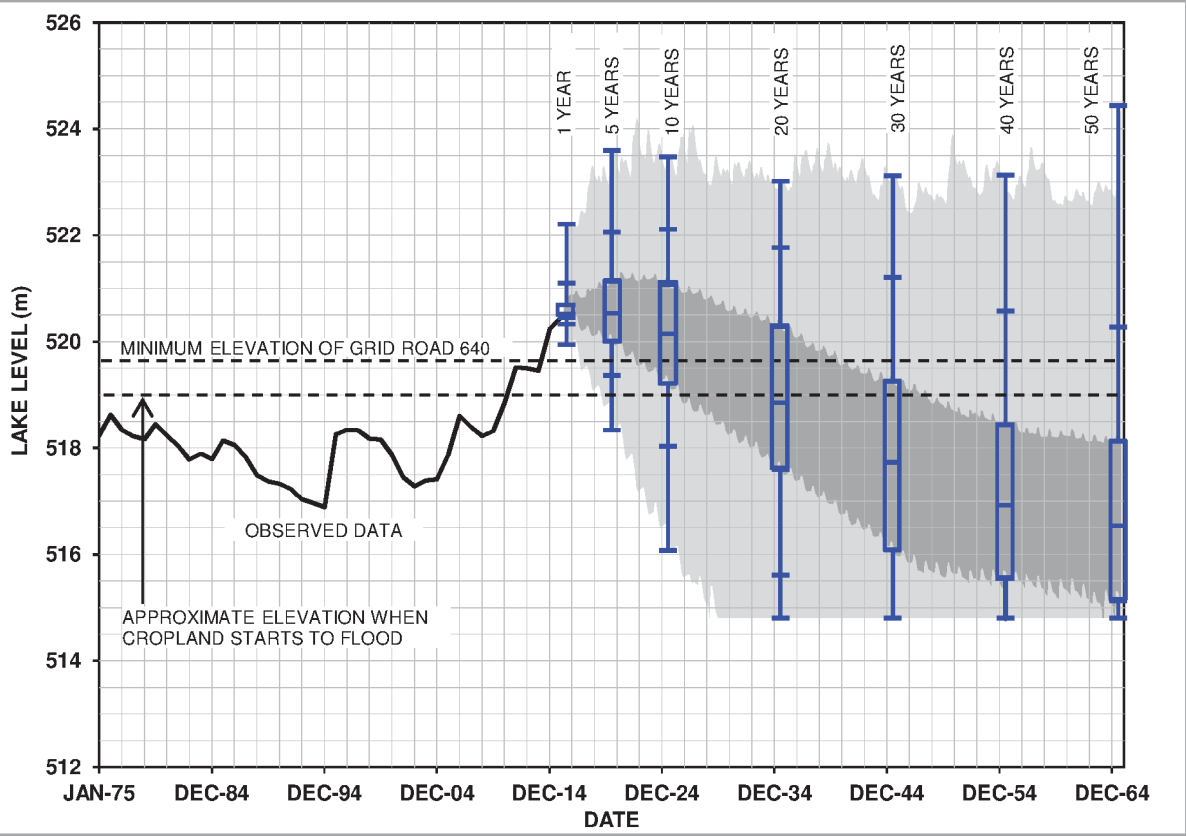
NOTES:
1) THE WATER LEVELS FOR THE QUILL LAKES WERE SIMULATED BY KGS GROUP USING A WATER BALANCE MODEL BASED ON RANDOMLY GENERATED RUNOFF DATA AND EVAPORATION MINUS PRECIPITATION DATA FROM AN AUTOREGRESSIVE MODEL

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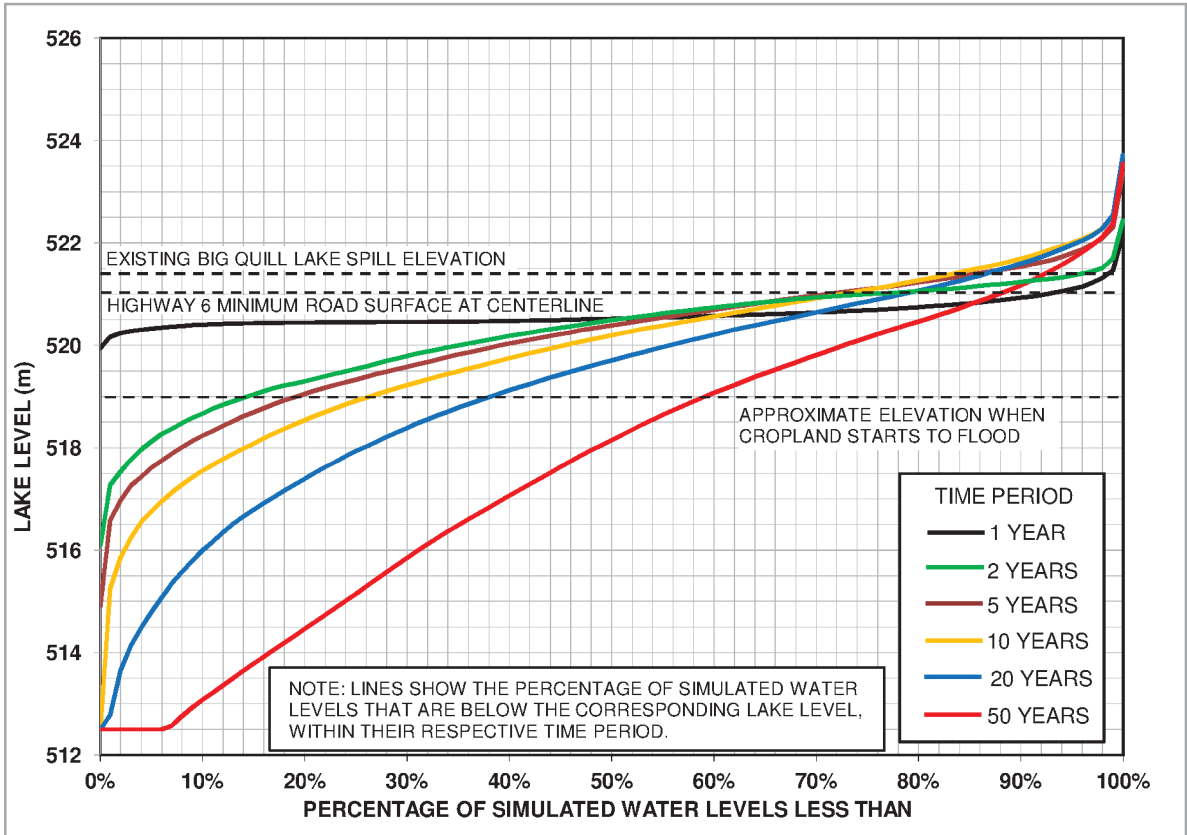
0	16/11/04	ISSUED WITH FINAL REPORT	DSB	PAL
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS WITHDRAW WATER FOR KARNALYTE POTASH MINE OPTION ($Q = 0.28 \text{ m}^3/\text{s}$)				
NOVEMBER 2016		PLATE 24	REV:	0



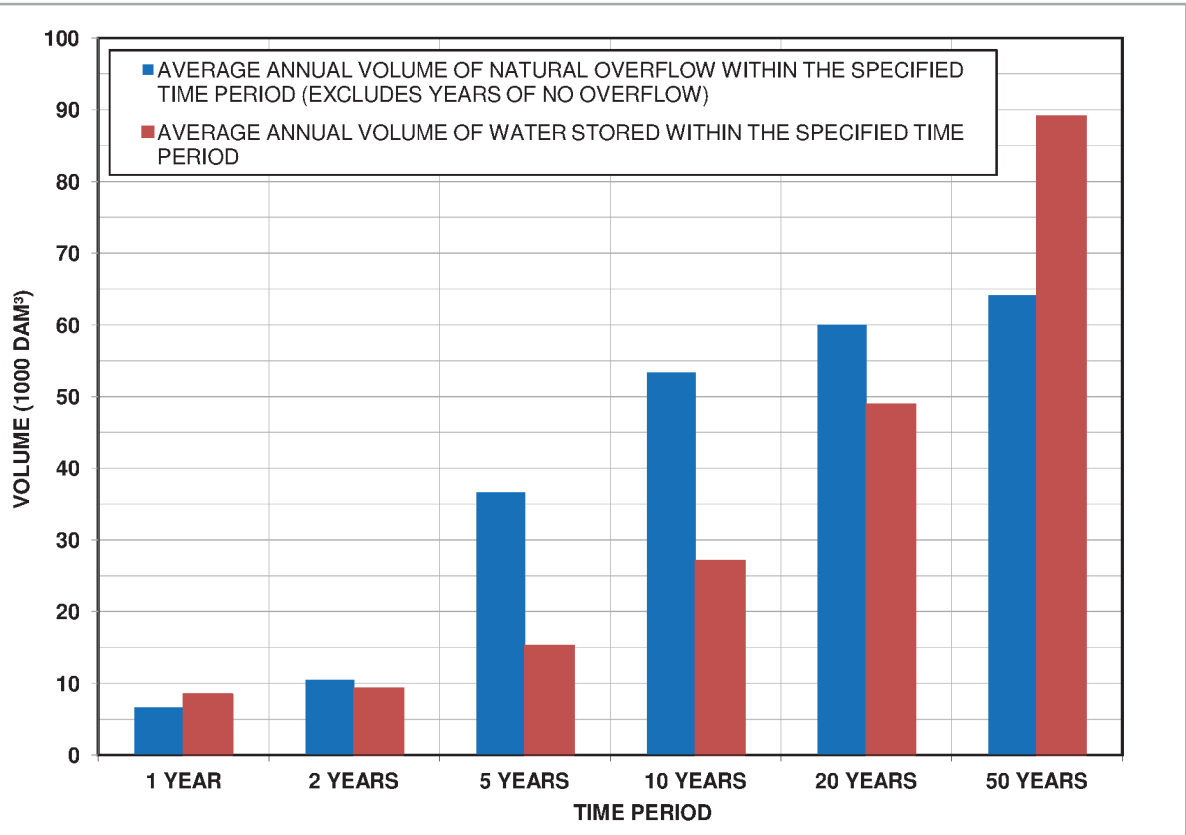
A) SIMULATED WATER LEVELS ON BIG QUILL LAKE



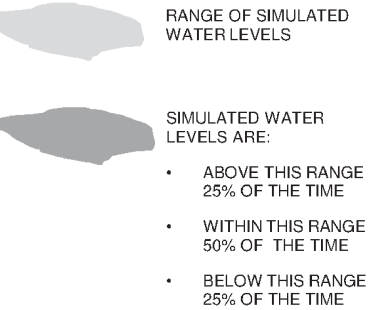
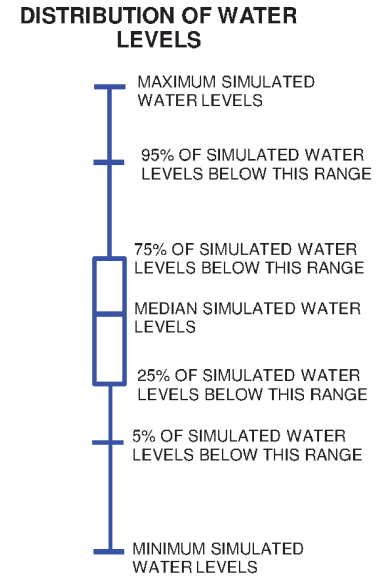
B) SIMULATED WATER LEVELS ON LITTLE QUILL LAKE




C) WATER LEVEL DURATION CURVES FOR BIG QUILL LAKE



D) SIMULATED AVERAGE ANNUAL VOLUMES



NOTES:
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
KGS GROUP CONSULTING ENGINEERS		 Water Security Agency		
QUILL LAKES FLOOD MITIGATION STUDY				
SUMMARY OF MODEL RESULTS CLOSURE OF DRAINAGE WORKS OPTION				
NOVEMBER 2016		PLATE 27	REV:	0