DocuSign Envelope ID: 4EBAA710-E62D-401B-A7CC-A649FEA90442



Graduate School UNIVERSITY OF COLORADO BOULDER

**Thesis Approval Form** 

Student Name	Tanya Petach	Student ID_********	
Doctoral	_ Degree in _Environmental Engineeri	ng	
Thesis Title:			
	f acid rock drainage in a changing cli water quality trends in the Colorado I	nate: assessment of bulkhead closures /lineral Belt	
Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)?Yes $\underline{X}$ No			
IRB Protocol N	umber		
Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)? Yes $\underline{x}$ No			
IACUC Protoco	l Number		
Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.			
Approvals:			)
Committee Chair Name Diane McKnight			
Signature Diane	ned by: McKnizkt 18DE00400	Date Signed 3/31/2022	
Committee Member Name Mark Hernandez			
Signature	ned by: Hetmandez aterpaca	Date Signed 3/31/2022	

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.