Responses to Comments for the Draft Final Site Inspection (SI) QAPP, Biak Traning Center Brett Hall, Powell Butte, OR Response Code: A = Agree with comment D = Disagree with comment C = Comment requires clarification Comment Response Commenter Page(s) Section Line(s) Comment Response Number Code **TECHNICAL COMMENTS** Ann Farris can remain DEQ POC, but D. Hafley is interim POC and 227 1 Hafley completing review of document. Please identify the approximate number of individuals using the well. 2 347 Hafley Also, whether the on-site well has been tested for PFAS. If know, please indicate the type of foams used (e.g., C8 vs C6, or 3 Hafley 359 both) 4 Hafley 390 "Holocene" is mis-spelled. In this section, discuss whether any perching of groundwater is either known or suspected. Please discussion site hydrogeology and can 419 5 Hafley be surmised from on-site well log, assuming that it is available. If it is not, identify the source of information including depth to groundwater. The surmised groundwater flow direction is presumably based local topography. Please elucidate. This is important given the proposal of a single monitoring well located downgradient of known PFAS 6 441 Hafley release areas, and the significant depth at which groundwater is expected to occur. It should also be noted that groundwater flow is complex/mixed volcanic deposits can be highly variable. 7 Hafley 534 See comment #6 about surmised groundwater flow direction. Also 554. Information on PFAS type, amount, etc. is generally 8 Hafley 538 absent. Please provide more information if possible. The schedule needs to be updated as it currently shows field work to have been completed in September 2021. Also, asterisk(s) are 9 Hafley 717 present but not explained in Notes. Please identify the thickness of the soil horizons that will be sampled (6"?). DEQ recommends collecting samples from the full length of 907 10 Hafley individual cores, augers, etc. (composite of, say, 0-2' rather than 0-6") to increase the likelihood of detecting contamination.

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				In the QAPP, assessment of potential groundwater impacts is based	
				on a single well, downgradient from AFFF use areas in the surmised	
11	Hafley			groundwater flow direction. DEQ has concerns about the uncertainty	
				associated with this approach: we would would typically recommend	
				a mininum of three wells, but acknowledges challenges including	
				expected depth to groundwater. More discussion of gradient would	
		971		help support the sampling approach, including whether groundwater	
			71	is expected to occur in an "interflow zone", fractured basalt, or	
				granular media where common advective transport processes might	
				be expected to occur. Please include and discuss the well log for	
				the on-site supply well (vis-a-vis site hydrogeology) in support both the depth of the boring/coring, location, etc. An alternative to the	
				monitoring well approach would be multi-level groundwater sampling	
				from a boring located closer/within the PFAS release area, including	
				a determination of whether perched groundwater may be present.	
				Please discuss whether previous sampling of the on-site well for	
12	Hafley			PFAS has occurred, and any available sampling results. If not	
				sampled to date, please sample. If previously sampled and non-	
		101	117	detect, please identify date, analytical suite, method, and detection	
				limits. Regarding, water elevation,all reasonable effort should be	
				made to obtain water elevation data from the well.	
13	Hafley	oth	ner	nt is uniclear whether sampling or the proposed monitoring well will be	
				TO THE PROPERTY OF THE PROPERT	
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				Information presented in the QAPP, specifically related to the	
1	Hafley			proposed monitoring well, and interpreparation of groundwater flow,	
				constitutes the practice of geology in the State of Oregon. The document should be prepared or approved by a state-registered	
				nrofessional geologist	
	Hafley			There is insufficient information presented in the SI QAPP for DEQ to	
2				ascertain whether the permanent groundwater monitoring well	
				approach is sound. Given that AFFF is known to have been released at two site AOCs, a higher standard of confidence seems warranted.	
				at two site Acces, a higher standard of confidence seems warranted.	

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