Appendix B

Property Abbreviated Name: Associated Analysis: (CCA, PAVT, AP-159, etc.) Effective Date: Description of Problem The alpha(1) terms for the binary MgEDTA2- pairs were entered in entered as 2.0 when the correct	SOLMOD3 SOLCOH5 CRA19 4/16/2019 y Pitzer parameter for Ca2+ / EDTA4- , Mg2+ / MgI ncorrectly in the EQ3/6 thermodynamic database D value is 1.4. While this value is NOT a direct input OH5 parameter value. This issue was uncovered d / PPR 2019-003.	ATA0.FM4. They were to PA, it did have an
Associated Analysis: (CCA, PAVT, AP-159, etc.) Effective Date: Description of Problem The alpha(1) terms for the binan MgEDTA2- pairs were entered in entered as 2.0 when the correct impact on the SOLMOD3/SOLC condition evaluation triggered by	CRA19 4/16/2019 y Pitzer parameter for Ca2+ / EDTA4- , Mg2+ / MgI ncorrectly in the EQ3/6 thermodynamic database D value is 1.4. While this value is NOT a direct input OH5 parameter value. This issue was uncovered d	EDTA2-, and the Ca2+ / ATA0.FM4. They were to PA, it did have an
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Requester (Print, Sign and Date	y R. Melsen for 1-13-2	020
Condition Adverse to Qua	ity? ☐ Yes ☑ No (Initiate NP 16 –1 if yes)	
Problem Resolution and Justi	fication for no Condition Adverse to Quality	
output PA parameters from the base impacted which precipitated the new The humic colloids model uses the calculated the humic colloids model adverse to quality existed. The third SOLMOD3/SOLCOH5 parameter a generation rate, and transport to the impacted by the change to the SOL the WIPP PA Parameter Database	e first by Domski to determine if changes to the alpha(1) eline solubility model. Domski determined that SOLMOD ed to evaluate downstream models which use the SOLMO SOLMOD3/SOLCOH5 parameter to calculate PHUSIM a l with the updated parameters and found that there was r d model was the PA model itself, Kim ran the model with nd found there was no change in the mobilized An(III), br e Culebra. The CCDFGF plots of total release of An(III) f MOD3/SOLCOH5 parameter, therefore, there is no cond will not be updated. This problem resolution and justificat andum "Correction of the α 1 terms of three Binary Pitzer f th 2019-013" (Domski, 2020).	3/SOLCOH5 had been DD3/SOLCOH5 parameter. Ind PHUCIM. Mariner re- to impact, i.e., no condition the updated ine pressure, hydrogen gas rom the repository were no ition adverse to quality, and tion for no condition adverse
Paul E. Shoemaker PA Manager (Print, Sign and Da	LE Choemaker 01/13/	2020
Shelly R. Nielsen	ly R. Nielsen 2019-013	
	1-13-2020	

QA Staff (Print, Sign and Date)

Parameter Problem Report No. (PPR)