HGL Data Validation Review Report

Project Name/Number	PHSS-SIB PDI / DT2002
Data Validation Stage	2A
Laboratory	ALS Environmental
SDG	K2306343
HGL Reviewer	Ken Rapuano 10/11/23
HGL Peer Review	Justin Hersh 10/11/2023

General issues: The HGL reviewer ensured that all results with an interpreted_qualifiers of U or UJ had the corresponding detect_flag field populated with N and that all rows had Y in the validated_yn field.

The DV report used the higher of the method blank or equipment blank results (on-column) to qualify associated results. Although HGL's internal protocol is to use all applicable reason codes, using the reason code only associated with the highest associated blank is consistent with the NFG and is acceptable for this project.

Although equipment blank results are not validated, the method blanks associated with equipment blank EB01-10052022 were contaminated with several target analytes, including DRO, RRO, BEHP, and the PAHs 2-methylnaphthalene, fluorene, and phenanthrene. In most cases, the concentration in the aqueous method blank was below the corresponding concentration found in the equipment blank and in the judgment of the HGL reviewer, it is appropriate to use the equipment blank to qualify any associated sample results for those analytes. However, the concentrations of BEHP and phenanthrene in EB01-10052022 are below the associated method blank concentration and these two analytes should be considered detected due to aqueous sample preparation contamination and not to cross-contamination of soil samples during sampling activities. Any change to qualification or reason codes is discussed in the method-specific sections below.

Diesel Range Organics (DRO) and Residual Range Organics (RRO):

No issues noted.

Organochlorine Pesticides:

No issues noted.

bis(2-Ethylhexyl)phthalate:

Nine B2EHP results were qualified U due to contamination in the equipment blank; these results should have the U-qualifier and EBL reason code removed due to the equipment blank result being considered analytical artifacts (see General Issues). The soil method blank associated with these samples was free from contamination and no alternate qualification or reason code relating to blanks is required.

Sample	Analyte	Validated Result	Validated Qualifier	Modified Validated Qualifier	Modified Interpreted Qualifier	Modified Final Reason Code
SIB-099-OHW-1-2-10072022	bis(2-Ethylhexyl)phthalate	33	U	--	J	--
SIB-099-TOB-1-2-10072022	bis(2-Ethylhexyl)phthalate	25	U	--	J	--
SIB-100-OHW-1-2-10062022	bis(2-Ethylhexyl)phthalate	34	U	--	J	--
SIB-101-TOB-1-2-10062022	bis(2-Ethylhexyl)phthalate	18	U	--	J	--
SIB-102-MLW-1-2-10062022	bis(2-Ethylhexyl)phthalate	35	U	J	J	SSH
SIB-102-TOB-1-2-10062022	bis(2-Ethylhexyl)phthalate	30	U	--	J	--
SIB-102-TOB-2-3-10062022	bis(2-Ethylhexyl)phthalate	11	U	--	J	--
SIB-104-TOB-1-2-10062022	bis(2-Ethylhexyl)phthalate	34	U	--	J	--
SIB-106-TOB-1-2-10052022	bis(2-Ethylhexyl)phthalate	23	U	--	J	--