

Table - Sediment Reference Material Results - L2125039 and L2159262

Analyte	CAS Number	Reference Material Source	Range of Expected Results	Analytical Method	Laboratory Results				
					ALS Kelso	ALS Burlington			
Chlorinated Pesticides ($\mu\text{g}/\text{kg}$)									
Aldrin	309-00-2	SRM 1944	--	ALS Kelso - EPA 1699 GC/MS/MS	2.0 U	NA	NA	NA	
Chlordanes	57-74-9	SRM 1944	--		--	NA	NA	NA	
Chlordane, oxy-	27304-13-8	SRM 1944	--		NA	NA	NA	NA	
Chlordane, gamma (trans)	5103-74-2	SRM 1944 ^b	17.3 - 20.7		27	NA	NA	NA	
Chlordane, alpha (cis)	5103-71-9	SRM 1944 ^a	15.68 - 17.34		18	NA	NA	NA	
Nonachlor, trans-	39765-80-5	SRM 1944 ^a	7.69 - 8.71		12	NA	NA	NA	
Nonachlor, cis-	5103-73-1	SRM 1944 ^b	3.0 - 4.4		2.8	NA	NA	NA	
Dieldrin	60-57-1	SRM 1944	--		10	NA	NA	NA	
Lindane	58-89-9	SRM 1944 ^b	1.7 - 2.3		ALS Burlington - EPA 1699 HRMS	2.0 U	NA	NA	NA
2,4'-DDD	53-19-0	SRM 1944 ^b	30 - 46			51	R	R	39.5
2,4'-DDE	3424-82-6	SRM 1944 ^b	16 - 22	26		23.0	23.6	15.7	
2,4'-DDT	789-02-6	SRM 1944	--	2.0 U		NA	NA	3.26	
4,4'-DDD	72-54-8	SRM 1944 ^b	92 - 124	96		139	117	97.8	
4,4'-DDE	72-55-9	SRM 1944 ^b	74 - 98	110		83.4	80.9	67.7	
4,4'-DDT	50-29-3	SRM 1944 ^b	138 - 202	130		189 J	199 J	177	

Notes:

SRM 1944 obtained from NIST.

J - The chemical was positively identified; however, the associated numerical value is an estimated concentration.

U - Not detected at detection limit shown.

a. Certified Mass Fraction Value. A NIST-certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST using two or more chemically independent analytical techniques. The certified values for the trace elements are based on NIST measurements by one technique and additional results from several collaborating laboratories.

b. Reference Mass Fraction Value. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods.

Acronyms:

$\mu\text{g}/\text{kg}$ = microgram per kilogram

ALS = ALS Environmental

CAS = Chemical Abstract Service

DDD = dichlorodiphenyldichloroethane

DDE = dichlorodiphenyldichloroethylene

DDT = dichlorodiphenyltrichloroethane

EPA = United States Environmental Protection Agency

GC/MS/MS = gas chromatography/tandem mass spectroscopy

HRMS = High Resolution Mass Spectrometry

NA = not analyzed

PAH = polycyclic aromatic hydrocarbon

PCB = polychlorinated biphenyl

R = rejected result

SRM = Standard Reference Material