

<b>CODE_TYPE</b>	<b>CODE</b>
Analytical Type	ANION
Analytical Type	ANION-D
Analytical Type	DAI-GC
Analytical Type	DNT
Analytical Type	FS
Analytical Type	GTEC
Analytical Type	METAL
Analytical Type	METEO
Analytical Type	OTHOR
Analytical Type	SVOA
Analytical Type	RADS-D
Analytical Type	RADS
Analytical Type	PPCB-D
Analytical Type	PPCB
Analytical Type	PHYSC
Analytical Type	OTHIN
Analytical Type	METAL-D
Analytical Type	HERB
Analytical Type	BIOTOX
Analytical Type	BIOSRVY
Analytical Type	BIOREPC
Analytical Type	BIOPOP
Analytical Type	BIOMRPH
Analytical Type	BIOLALL
Analytical Type	BIOINDC
Analytical Type	J
Analytical Type	WETCHEM-D
Analytical Type	WETCHEM
Analytical Type	VOA
Analytical Type	TCLPVOA
Analytical Type	TCLPSVL
Analytical Type	TCLPPST
Analytical Type	TCLPMET
Analytical Type	TCLPHRB
Analytical Type	DI/FURA
Analytical Type	CALC
Data Assessment Codes	?
Data Assessment Codes	DIL
Data Assessment Codes	DIS-EDDF1
Data Assessment Codes	FDUP-OUT
Data Assessment Codes	KYRHTAB-50
Data Assessment Codes	J
Data Assessment Codes	IN-METH
Data Assessment Codes	IN-LABQC
Data Assessment Codes	IN-LAB,&
Data Assessment Codes	IN-LAB
Data Assessment Codes	ICSEXP
Data Assessment Codes	ICPTIMS-ER
Data Assessment Codes	DR

Data Assessment Codes	MDA-METHOD
Data Assessment Codes	LCSNI
Data Assessment Codes	LCSNA
Data Assessment Codes	LCSEXP
Data Assessment Codes	LAB-PREP
Data Assessment Codes	KYRHTAB-OK
Data Assessment Codes	KYRHTAB-NE
Data Assessment Codes	KYRHTAB-LT
Data Assessment Codes	KYRHTAB-ER
Data Assessment Codes	R-H
Data Assessment Codes	R-DUPVAR
Data Assessment Codes	R-C,&
Data Assessment Codes	R-C, ?
Data Assessment Codes	R-C
Data Assessment Codes	R
Data Assessment Codes	QUAL
Data Assessment Codes	PENP
Data Assessment Codes	NR
Data Assessment Codes	R-T
Data Assessment Codes	R-RERUN
Data Assessment Codes	R-PRES
Data Assessment Codes	R-NTRSFW
Data Assessment Codes	R-NTRS
Data Assessment Codes	R-NORAD,&
Data Assessment Codes	R-NORAD
Data Assessment Codes	R-MTRX
Data Assessment Codes	R-HSS
Data Assessment Codes	BH-CONT, NOVAL
Data Assessment Codes	BH-CONT
Data Assessment Codes	USECNITRIC-CF
Data Assessment Codes	U-RAD,&
Data Assessment Codes	U-RAD
Data Assessment Codes	U,J
Data Assessment Codes	U
Data Assessment Codes	NOVAL-FLAB
Data Assessment Codes	NOVAL
Data Assessment Codes	BH-TEMP
Data Assessment Codes	BH-TB, BL-TEMP
Data Assessment Codes	BH-TB
Data Assessment Codes	BH-SS
Data Assessment Codes	BH-SOLID
Data Assessment Codes	BH-RI
Data Assessment Codes	BH-RB
Data Assessment Codes	BH-QC
Data Assessment Codes	BH-PURGE
Data Assessment Codes	BL-TEMP, J
Data Assessment Codes	BL-TEMP, BL-PRES

Data Assessment Codes	BL-TEMP
Data Assessment Codes	BL-T,J
Data Assessment Codes	BL-T, BL-QC
Data Assessment Codes	BL-T
Data Assessment Codes	BL-QC
Data Assessment Codes	BL-PURGE,&
Data Assessment Codes	BL-PURGE
Data Assessment Codes	CCCSEXP
Data Assessment Codes	BL-TEMP, U, BH-QC
Data Assessment Codes	BL-TEMP, U
Data Assessment Codes	BL-TEMP, NOVAL
Data Assessment Codes	BL-PRES, ?
Data Assessment Codes	BL-PRES
Data Assessment Codes	BL-LABPR
Data Assessment Codes	BL-LAB
Data Assessment Codes	BL-HS, BL-TEMP
Data Assessment Codes	BL-HS
Data Assessment Codes	BL-AIR,&
Data Assessment Codes	BL-AIR
Data Assessment Codes	BH-LABPR
Data Assessment Codes	BH-LAB
Data Assessment Codes	BH-FB,&
Data Assessment Codes	BH-FB, ?
Data Assessment Codes	BH-FB BH-TB
Data Assessment Codes	BH-FB BH-RI
Data Assessment Codes	BH-FB
Data Assessment Codes	BH-ER
Data Assessment Codes	N/A
Data Assessment Codes	MSMSDEXP
Data Assessment Codes	MDA-RECALC
Data Assessment Codes	USECNITRIC-CF
Footnote	A
Footnote	Z
Lab Code	?
Lab Code	ACO
Lab Code	AIP/ST
Lab Code	AMAQ
Lab Code	ATOR
Lab Code	BETA
Lab Code	NO_LAB
Lab Code	NCSU
Lab Code	NA
Lab Code	MTST
Lab Code	MGM
Lab Code	MET
Lab Code	MCL

Lab Code	MCCOY
Lab Code	LASLV
Lab Code	ORNLIT
Lab Code	ORNL
Lab Code	ORISER
Lab Code	ORISEE
Lab Code	ORAS
Lab Code	ONSE
Lab Code	OBRIEN
Lab Code	NUS
Lab Code	KYRAD
Lab Code	K-25
Lab Code	JOHNS
Lab Code	JMAN
Lab Code	JAYCOR
Lab Code	ITST
Lab Code	ITSL
Lab Code	ITRS
Lab Code	STLVT
Lab Code	STLTN
Lab Code	STLMO
Lab Code	STLCO
Lab Code	LRD
Lab Code	LOCK
Lab Code	LMUS
Lab Code	LLRAL
Lab Code	LIONPA
Lab Code	CSL
Lab Code	CPA
Lab Code	CORE
Lab Code	CH2RF
Lab Code	CH2F
Lab Code	CEP
Lab Code	CEBA
Lab Code	CDM
Lab Code	CCRT
Lab Code	BWXTVA
Lab Code	BWXTN
Lab Code	BWLVA
Lab Code	BRAN
Lab Code	BPNNL
Lab Code	BJCPE
Lab Code	BIOFLD
Lab Code	Y-12
Lab Code	XTOX
Lab Code	XRPD
Lab Code	XRAD
Lab Code	XFSH05
Lab Code	XBMARK
Lab Code	X1503
Lab Code	WSLL

Lab Code	WSGC
Lab Code	WESBIR
Lab Code	WES
Lab Code	UT
Lab Code	USECOH
Lab Code	USECKY
Lab Code	UK
Lab Code	TVAT
Lab Code	TVAE
Lab Code	TVAB
Lab Code	TRI
Lab Code	TRACER
Lab Code	TMSS
Lab Code	TMER
Lab Code	TMEO
Lab Code	TMEA
Lab Code	TMAR
Lab Code	TMAN
Lab Code	THEROR
Lab Code	THEMAL
Lab Code	TEL
Lab Code	TEC
Lab Code	TDSF
Lab Code	TDEC
Lab Code	TALWA
Lab Code	TALVT
Lab Code	TALMO
Lab Code	TAL
Lab Code	SWRI
Lab Code	SWLOK
Lab Code	STLWA
Lab Code	ITPA
Lab Code	ITOR
Lab Code	ITLR
Lab Code	ITKX
Lab Code	ITGEO
Lab Code	HRLAL
Lab Code	HALLIB
Lab Code	GELSC
Lab Code	SPECAS
Lab Code	SLES
Lab Code	SINGLE
Lab Code	SIMA
Lab Code	PRS
Lab Code	PRC
Lab Code	PORTS
Lab Code	PORTF
Lab Code	PGDP
Lab Code	PENNAC
Lab Code	PARGN
Lab Code	PACEOK

Lab Code	PACE
Lab Code	SECRAL
Lab Code	SEC
Lab Code	SCIENT
Lab Code	SAIC
Lab Code	S-CUBE
Lab Code	RUST
Lab Code	RMAL
Lab Code	RECRPA
Lab Code	RECRA
Lab Code	RDD
Lab Code	RADN
Lab Code	QUANT
Lab Code	GELOH
Lab Code	GEL
Lab Code	FS
Lab Code	FRON
Lab Code	FAMU
Lab Code	ETLS
Lab Code	EPALV
Lab Code	ECC
Lab Code	GPLMD
Lab Code	GPLAL
Lab Code	GJO
Lab Code	GEO
Lab Code	EBERTN
Lab Code	EBERNM
Lab Code	EBERCA
Lab Code	DCSL
Lab Code	DCOH
Lab Code	CTL
Lab Code	BEACMD
Lab Code	BARRIN
Lab Code	ASO
Lab Code	ARC
Lab Code	ALSFC
Media Type	AA
Media Type	AQ
Media Type	BA
Media Type	DC
Media Type	EF
Media Type	QB
Media Type	QA
Media Type	PW
Media Type	PN
Media Type	PC
Media Type	IS
Media Type	HW
Media Type	GV
Media Type	GS
Media Type	TW

Media Type	TQ
Media Type	TP
Media Type	TC
Media Type	TB
Media Type	TA
Media Type	SZ
Media Type	SW
Media Type	SS
Media Type	CO
Media Type	CL
Media Type	WQ
Media Type	WP
Media Type	WO
Media Type	WL
Media Type	WH
Media Type	WG
Media Type	WE
Media Type	WD
Media Type	WC
Media Type	YC
Media Type	WZ
Media Type	WW
Media Type	WV
Media Type	WS
Media Type	SQ
Media Type	SP
Media Type	SO
Media Type	SN
Media Type	SL
Media Type	SF
Media Type	SE
Media Type	SC
Media Type	GR
Media Type	FT
Media Type	FR
Media Type	FL
Media Type	EG
Media Type	EA
Media Type	CW
Media Type	AS
Media Type	RS
Media Type	RF
Media Type	QP
Media Type	QN
Media Type	QC
Media Type	NW
Media Type	NA
Media Type	MS
Media Type	MK
Media Type	MC
Media Type	LV

Media Type	LT
Media Type	LO
Media Type	LF
Media Type	LE
Media Type	LD
Media Type	AG
Verification Codes	?
Verification Codes	A
Verification Codes	D
Verification Codes	G
Verification Codes	F
Verification Codes	E
Verification Codes	B
Verification Codes	S
Verification Codes	NT
Verification Codes	IXT
Verification Codes	IX
Verification Codes	IT
Verification Codes	ISX
Verification Codes	IST
Verification Codes	IS
Verification Codes	I
Verification Codes	H
Verification Codes	C
Verification Codes	BS
Verification Codes	XT
Verification Codes	X
Verification Codes	T
Verification Codes	SXT
Verification Codes	SX
Verification Codes	ST
Verification Codes	N
Lab Qualifiers	!
Lab Qualifiers	*
Lab Qualifiers	<
Lab Qualifiers	>
Lab Qualifiers	+
Lab Qualifiers	C
Lab Qualifiers	Z
Lab Qualifiers	Y
Lab Qualifiers	X
Lab Qualifiers	W
Lab Qualifiers	V
Lab Qualifiers	U
Lab Qualifiers	O
Lab Qualifiers	N
Lab Qualifiers	M
Lab Qualifiers	L



Lab Qualifiers	K
Lab Qualifiers	J
Lab Qualifiers	I
Lab Qualifiers	H
Lab Qualifiers	G
Lab Qualifiers	T
Lab Qualifiers	S
Lab Qualifiers	R
Lab Qualifiers	P
Lab Qualifiers	F
Lab Qualifiers	E
Lab Qualifiers	D
Lab Qualifiers	B
Lab Qualifiers	A
Lab Qualifiers	?
Sample Type	?
Sample Type	DI
Sample Type	PRBL
Sample Type	REG
Sample Type	TLC
Sample Type	TB
Sample Type	RI
Sample Type	REP4
Sample Type	REP3
Sample Type	REP2
Sample Type	REP1
Sample Type	REP
Sample Type	REG2
Sample Type	RB
Sample Type	FR
Sample Type	FTB
Sample Type	FB
Sample Type	DIL
UNITS	%
UNITS	% moisture
UNITS	API
UNITS	R
UNITS	Pa
UNITS	L/s
UNITS	L/min
UNITS	L/day
UNITS	L
UNITS	KOH equiv
UNITS	Inches/Hg
UNITS	IU/L
UNITS	Hz

UNITS	HETS/ml
UNITS	cSt
UNITS	avg count
UNITS	atom %
UNITS	asb types
UNITS	THB/ml
UNITS	TCU
UNITS	Std Unit
UNITS	SUS
UNITS	S
UNITS	deg C
UNITS	darcy
UNITS	d
UNITS	cps/kg
UNITS	cpm
UNITS	count/m2
UNITS	count
UNITS	col/100ml
UNITS	cm3/cm3
UNITS	CPS
UNITS	CP
UNITS	C/kg
UNITS	Btu/lb
UNITS	Btu
UNITS	Bq/ml
UNITS	Bq/kg
UNITS	Bq/g
UNITS	Bq/filter
UNITS	Bq/L
UNITS	Bq
UNITS	yr
UNITS	wtppm
UNITS	wt %
UNITS	vol %
UNITS	umho/cm
UNITS	umho
UNITS	um
UNITS	ugU235/g
UNITS	ugU235/L
UNITS	ugS/g
UNITS	ug/wipe
UNITS	ug/tube
UNITS	ug/sample
UNITS	ug/mlU
UNITS	ug/ml
UNITS	ug/mg
UNITS	ug/m3
UNITS	ug/kg
UNITS	ug/gU
UNITS	ug/g
UNITS	ug/filter

UNITS	ug/cm3
UNITS	ug/cm2 (dry)
UNITS	ug/cm2
UNITS	ug/L
UNITS	ug Pu/kg U
UNITS	ug Np/kg U
UNITS	ug C/ug Chla/h
UNITS	ug C/cm2/h
UNITS	ug
UNITS	uS/cm
UNITS	uRem
UNITS	uL
UNITS	uCi/sample
UNITS	uCi/ml
UNITS	uCi/g
UNITS	uCi/L
UNITS	uC/L
UNITS	tot_ugU
UNITS	tot_ug
UNITS	tot_g
UNITS	ton/yr
UNITS	s
UNITS	rsd
UNITS	rem
UNITS	rd
UNITS	ppt
UNITS	ppmv
UNITS	ppm
UNITS	ppbv
UNITS	ppb (v/v)
UNITS	ppb
UNITS	pmol/min/mg MPRO
UNITS	pmol/mg/mn
UNITS	phase
UNITS	pg/g
UNITS	pg/L
UNITS	pCi/wipe
UNITS	pCi/ug
UNITS	pCi/sample
UNITS	pCi/ml
UNITS	pCi/mg
UNITS	pCi/m3
UNITS	pCi/kg
UNITS	pCi/g U
UNITS	pCi/g
UNITS	pCi/filter
UNITS	pCi/L
UNITS	pCi
UNITS	oz/gallon
UNITS	oz
UNITS	organ/ml

UNITS	organ/L
UNITS	ohms/cm3
UNITS	ohm
UNITS	none
UNITS	nmol/min/mg MPRO
UNITS	nmol/mg/ml
UNITS	nmol/mg MPRO
UNITS	nmol/mg
UNITS	nm
UNITS	ng/ml
UNITS	ng/m3
UNITS	ng/kg
UNITS	ng/g
UNITS	ng/L
UNITS	ng
UNITS	mru
UNITS	mrem/h
UNITS	mrem
UNITS	mole %
UNITS	mol/L
UNITS	mm2
UNITS	mm/yr
UNITS	mm Hg
UNITS	mm
UNITS	ml/min
UNITS	ml/L
UNITS	ml/100ml
UNITS	ml
UNITS	min
UNITS	mho
UNITS	mgd
UNITS	mgal
UNITS	mg/tube
UNITS	mg/ml
UNITS	mg/m3
UNITS	mg/kg
UNITS	mg/g
UNITS	mg/filter
UNITS	mg/dl
UNITS	mg/L CaCO3
UNITS	mg/L
UNITS	mg/Kg/Sec
UNITS	mg MPRO/g liverw
UNITS	mg
UNITS	meq/g
UNITS	meq/L
UNITS	meq/100g
UNITS	mV
UNITS	mS/cm
UNITS	mR/h
UNITS	mR

UNITS	mHz
UNITS	mCi/w
UNITS	m <sup>3</sup> /s
UNITS	m <sup>2</sup> /s
UNITS	m <sup>2</sup>
UNITS	m/s
UNITS	m
UNITS	lbs
UNITS	lb/ft <sup>3</sup>
UNITS	lb/day
UNITS	lb
UNITS	kg/m <sup>3</sup>
UNITS	kg/day
UNITS	kg/L
UNITS	kg
UNITS	kPa
UNITS	kHz
UNITS	in
UNITS	h
UNITS	gpw
UNITS	gps
UNITS	gpm
UNITS	gpd
UNITS	gm
UNITS	gal/d/ft
UNITS	gal
UNITS	gU235/samp
UNITS	gU235/g
UNITS	gU235/L
UNITS	gU235
UNITS	gU/sample
UNITS	gU/g
UNITS	gU/L
UNITS	gHz
UNITS	g/ml
UNITS	g/kg
UNITS	g/gal
UNITS	g/g sample
UNITS	g/g
UNITS	g/d/ft <sup>2</sup>
UNITS	g/cm <sup>3</sup>
UNITS	g/L
UNITS	g
UNITS	ft <sup>3</sup> /s
UNITS	ft <sup>3</sup> /min
UNITS	ft <sup>3</sup> /day
UNITS	ft <sup>3</sup>
UNITS	ft <sup>2</sup> /d
UNITS	ft <sup>2</sup>
UNITS	ft/s
UNITS	ft/d

UNITS	ft
UNITS	fiber/mm2
UNITS	fib/field
UNITS	equiv/L
UNITS	drop
UNITS	dpm/s
UNITS	dpm/ml
UNITS	dpm/g
UNITS	dpm/filter
UNITS	dpm/L
UNITS	dpm/100ml
UNITS	dpm
UNITS	degrees
UNITS	deg F
UNITS	cm3
UNITS	cm2/s
UNITS	cm2
UNITS	cm/s
UNITS	cm
UNITS	cg
UNITS	cfu/ml
UNITS	centipoise
UNITS	PSIA
UNITS	PSI
UNITS	PCF
UNITS	NTU
UNITS	NA
UNITS	N/cm
UNITS	N
UNITS	Mm3/s
UNITS	SRB/ml
UNITS	SCCM
UNITS	Ci
UNITS	ASG
UNITS	API @ 68 F
UNITS	ACU
UNITS	% passing
UNITS	% recovery
VALIDATION	=
VALIDATION	ED
VALIDATION	U
VALIDATION	RN
VALIDATION	RJ
VALIDATION	REN
VALIDATION	RD
VALIDATION	R
VALIDATION	NJ
VALIDATION	N
VALIDATION	J
VALIDATION	XZ

VALIDATION	XX
VALIDATION	XV
VALIDATION	X
VALIDATION	UJ
VALIDATION	ENJ
VALIDATION	EN
VALIDATION	EJ
VALIDATION	E
VALIDATION	?
VALIDATION	D
VALIDATION	DJ

CODE DESCRIPTION
Anions
Dissolved Anions
Direct aqueous injection gas chromatographic
Data Not Transmitted
Field Sample
Geotechnical Parameters
Metals
Meteorological
Other organic
Semivolatile Organics Analysis
Dissolved Radiochemical analysis
Radiochemical analysis
Dissolved Pesticides/Polychlorinated Biphenyls
Pesticides/Polychlorinated Biphenyls
Physical and field measurements
Other inorganic
Dissolved Metals
Herbicides
Biological toxicity tests
Biological survey (includes community studies; a one-time observation)
Biological reproductive competence
Biological population studies (a series of sampling events studying a population of organisms)
Biological morphometric measurements
Refers to all biological analysis types
Biological indicators of fish health
Other, defined in COMMENTS column
Dissolved analyte Wet chemistry
Wet chemistry
Volatile Organics Analysis
Toxicity Characteristic Leaching Procedure - volatile organics
Toxicity Characteristic Leaching Procedure - semivolatiles
Toxicity Characteristic Leaching Procedure - pesticides
Toxicity Characteristic Leaching Procedure - metals
Toxicity Characteristic Leaching Procedure - herbicides
Dioxins or Furans
Calculated field
Other, defined in COMMENTS column
Result is obtained from dilution
Discrepancies exist between the EDD and the Form 1. Form 1s are generated by instrument software that automatically reports all detected compounds. It is the lab's policy to not report quantities below LCRs within their EDD format. Both sets of data ar
Field duplicate exceeds the RPD criterion
Kentucky Radiation Health and Toxic Agents Branch (KYRHTAB) has performed an independent data evaluation (not to be confused with data verification and validation) and the rad error accounts for greater than 50% of the results.
Result estimated
Result should be considered information only. Lab utilized a modified method.
Result should be considered information only. Quality control requirements of the laboratory method were not met.
qualifiers
Result should be considered information only. Compound is a known or probable lab contaminant
Initial Calibration Standard Expired
ICP-MS and TIMS error for the concentration of Uranium-235 is less than the 285 pCi/g level at one standard deviation.
Discrepancy between summary data report and raw data.



The recalculated MDA is considered a method-wide MDA. Batch specific MDAs were not calculated.
LCS Not Independent
Laboratory control sample not analyzed.
LCS Expired
Prep method used by the lab valid but not proceduralized.
Kentucky Radiation Health and Toxic Agents Branch (KYRHTAB) has performed an independent data evaluation (not to be confused with data verification and validation) and the data is acceptable for use.
Kentucky Radiation Health and Toxic Agents Branch (KYRHTAB) has performed an independent data evaluation (not to be confused with data verification and validation) and the rad error exhibits a negative value, which is a statistical outlier.
Kentucky Radiation Health and Toxic Agents Branch (KYRHTAB) has performed an independent data evaluation (not to be confused with data verification and validation) and the results are less than (LT) the maximum detectable activity (MDA) or detection limit
Kentucky Radiation Health and Toxic Agents Branch (KYRHTAB) has performed an independent data evaluation (not to be confused with data verification and validation) and the data presents error problems (ie., no counting uncertainty or zero counting uncertainty)
Result unusable due to historical trending (i.e., outlier).
Result questionable, measured variability of the field duplicate is outside PARCC parameter expectations, therefore population estimates of variability may be off by several orders of magnitude.
Result questionable, credibility at issue. See comments for additional assessment qualifiers
Result questionable, credibility at issue, other defined in COMMENTS column
Result questionable, credibility at issue.
Result unusable.
process.
PE Sample Not Performed
Assessment question not resolved.
Result rejected due to missed holding time
Result unusable, results from re-analysis should be used
Result rejected due to improper preservative added.
Result rejected; not a true representative sample of formation water
Result rejected; not a true representative sample
Result unusable; Uranium-235 portion of calculation is below reliable detection limits. See comments for additional assessment qualifiers
Result unusable; Uranium-235 portion of calculation is below reliable detection limits.
Result rejected due to matrix interference.
Rejected due to high suspended solids content.
to missing Form I
Result may be biased high due to contamination of the sample from the field or laboratory.
During the period from May 2004 to September 2009, the USEC-PGDP lab used method RL-7128-NITRIC for isotopic uranium analysis by alpha spec. Method RL-7128-NITRIC utilizes only nitric acid for dissolution rather than hydrofluoric/nitric acid. The use of
assessment qualifiers
Result considered a non-detect; instrument measurement error is equal to or greater than the reported result
Not detected and result estimated
Not detected
Validation targeted for this project but not required for field laboratory data.
Validation requested but qualifier not provided due to missing Form I
Result biased high due to a temperature exceedance.
Result may be biased high, chemical detected in associated trip blank, result biased high due to a temperature exceedance.
Result may be biased high, chemical detected in associated trip blank
Result may be biased high; sample may contain particles of the acetate sampling sleeve
Result biased high due to sample containing a large amount of solids
Result may be biased high, chemical detected in associated equipment rinsate.
Result may be biased high; chemical detected in associated refrigerator blank
Result may be biased high based upon lab QC (i.e. surrogate, MS/MSD, etc.)
Result may be biased high; sample may be diluted with drilling fluid due to insufficient purging prior to sampling
Result biased low due to a temperature exceedance, estimated.
Result biased low due to a temperature exceedance, Result may be biased low due to improper preservative added.

Result biased low due to a temperature exceedance
Result may be biased low; sample holding time exceeded, estimated
Result may be biased low; sample holding time exceeded and result may be biased low based upon lab QC (i.e. surrogate, MS/MSD, etc.)
Result may be biased low; sample holding time exceeded
Result may be biased low based upon lab QC (i.e. surrogate, MS/MSD, etc.)
assessment qualifiers
Result may be biased low; sample may be diluted with drilling fluid due to insufficient purging prior to sampling
Continuous Calibration Check Standard Expired
Result biased high due to a temperature exceedance, Not detected, may be biased high based upon lab QC.
Result biased low due to a temperature exceedance, not detected.
Result biased low due to a temperature exceedance, Validation requested but qualifier not provided due to missing Form I
Result may be biased low due to improper preservative added., Other defined in COMMENTS column.
Result may be biased low due to improper preservative added.
Result biased low due to laboratory process
Result may be biased low; compound is a known or probable lab contaminant
Biased low due to headspace in sample container & result biased low due to a temperature exceedance.
Biased low due to headspace in sample container
Biased low due to air rotary drilling method. See comments for additional assessment qualifiers.
Biased low due to air rotary drilling method.
Result biased high due to laboratory process
Result may be biased high; compound is a known or probable lab contaminant
Result may be biased high; chemical detected in associate field blank. See comments for additional assessment qualifiers
Result may be biased high; chemical detected in associated field blank & Other, defined in COMMENTS column.
blank.
equipment rinseate.
Result may be biased high; chemical detected in associated field blank
Result may be biased high; chemical detected in associated equipment rinseate
Not Applicable
Matrix Spike/Matrix Spike Duplicate Standard Expired
is 24.7 pCi/L.
During the period from May 2004 to September 2009, the OCEC/CDR lab used method RL-7128-NITRIC for isotopic uranium analysis by alpha spec. Method RL-7128-NITRIC utilizes only nitric acid for dissolution rather than hydrofluoric/nitric acid. The use of nitric acid only is a less aggressive dissolution for isotopic uranium analysis by alpha spec. It has been demonstrated that Method RL-7128-NITRIC can only be utilized for isotopic uranium analysis of soil with activity greater than 10 pCi/g due to low recoveries below that level. Therefore, if the data from Method RL-7128-NITRIC will be screened against the background values reported in Background Levels of Selected Radionuclides and Metals in Soils and Geologic Media at the PGDP (1997), the following adjusted background values must be used: U-234: 1.73 pCi/g surface and 1.63 pCi/g subsurface, U-235: 0.10 pCi/g, and U-238: 0.40 pCi/g (Methods for Conducting Risk Assessments and Risk Evaluations at the Paducah Gaseous Diffusion Plant, Appendix E (2009)). Risk assessors may use data from this time period for comparison against other
Insufficient uranium present in the sample to determine an assay.
0.05 wt%U-235 is conserv limit of error.Actual 3-sigma for controls <0.05 wt%.
Other, defined in COMMENTS column
BWXT-ACO, Oak Ridge, TN
AIP
American Aquatics, Inc.
ATEC, Oak Ridge, TN
Beta Analytic, Inc., Miami, FL
Value Calculated by Project Staff, e.g., Charge Balance
North Carolina State University Laboratory
Not Available
Mountain States Analytical, Salt Lake City, UT
CH2M Hill Montgomery Lab
MetaTrace
Materials and Chemistry Laboratory Inc. Oak Ridge, TN

McCoy/McCoy
LAS Laboratories, Las Vegas, NV
Ion Trap Mass Spectrometry, 4500S, E-160
LMES-Oak Ridge National Laboratory
Oak Ridge Institute for Science and Education Radiochemistry Lab
Oak Ridge Institute for Science and Education Environmental Lab
Oak Ridge Analytical Services, Inc., Oak Ridge, TN
Onsite(?) (Megawag)
Obrien & Gere Laboratories, Inc., Syracuse, NY
NUS?
Kentucky Radiation Control Lab
LMES-K-25 Plant
Johns Manville Technical Center, Littleton, CO
Johns Manville Technical Center Littleton, CO
JAYCOR Benthic Macroinvertebrates Lab, Oak Ridge, TN
Stuart Laboratory
IT-St. Louis, Earth City, MO
IT Radiological Services Laboratory
STL, Vermont
STL, Knoxville, TN
Severn Trent, Earth City Missouri
Severn Trent, Arvada Colorado
CH2M Hill Redding Environmental Lab, Redding CA
Lockheed Engineering & Science Co., Las Vegas, NV
Lockheed Martin Utility Services
Low Level Radiological Laboratory, ORNL, Oak Ridge, TN
Lionville Laboratory, Lionville, PA
ORNL Close Support Lab
Chemical and Physical Analysis Laboratory, X-10, Bldg. 4500S
Core Laboratories, Aurora, Colorado
CH2M Hill Field Radiological Lab
CH2M Hill Field Lab
Controls for Environmental Pollution, Santa Fe, New Mexico
CEBAM Analytical, Inc. Portland, OR
CDM Field Support Lab
CompuChem Laboratories, Inc., Research Triangle Park, NC
BWXT Services, Inc., Lynchburg, VA
BWXT-ACO, Oak Ridge, TN
Babcock and Wilcox, Lynchburg, VA
Brooks Rand
Battelle, Pacific Northwest National Laboratory
Bechtel Jacobs Company, LLC Performance Evaluation Laboratory, Oak Ridge, TN
Biota observations, measurements, tests, or analyses made or conducted in the field (COMM_SUR RTL ONLY).
LMES-Y-12 Plant
ORNL/ESD Toxicological Analysis Laboratory
ORNL/ESD Reproduction Laboratory
ORNL/ESD/Radiological Analysis Laboratory
ESD Fish Processing Lab - 1505
ORNL/ESD Biological Marker Laboratory
ORNL/ESD
Roy F. Weston, Inc., Lionville, PA

Weston Gulf Coast
Wes Birge Laboratory - AIP
Westinghouse
University of Tennessee
United States Enrichment Corp., Portsmouth, OH
United States Enrichment Corp., Paducah, KY
University of Kentucky
TVA Toxicological Analysis Laboratory
TVA Environmental Chemistry Lab
TVA Benthic Macroinvertebrates Lab, Muscle Shoals, AL
Triangle Labs - Research Triangle Park, Durham, NC 27713
Tracer Research Corporation, Tucson, AZ
TMA-Skinner & Sherman, Waltham, MA
TMA-ERG, Ann Arbor, Michigan
TMA-Eberline, Oak Ridge, TN
TMA-Eberline, Albuquerque, NM
TMA-ARLI, Monrovia, CA
TMA-Norcal, Richmond, CA
THERMO NUTEC, Oak Ridge, TN
Thermo NUTech, Albuquerque, NM
Teledyne Isotopes
TEC (Phase 2)
Tennessee Division of Superfund
Tennessee Department of Environment and Conservation Lab
TestAmerica Laboratories, Richland, Washington
TestAmerica Laboratories, Vermont
TestAmerica Laboratories, Earth City, Missouri (previously STLMO)
Transuranium Analytical Laboratory, ORNL (Bldg. 7920)
Southwest Research Institute, San Antonio, TX
Southwest Lab of Oklahoma, Broken Arrow, OK
Severn Trent, Richland Washington
IT-Pittsburgh
IT-Oak Ridge, Oak Ridge, TN
IT-Richland, Richland, WA
IT-Middlebrook, Knoxville, TN
IT Corporation-Geotechnical Laboratory, Oak Ridge, TN
High Radiation Level Analytical Laboratory, ORNL (Bldg. 2026)
Halliburton
General Engineering Laboratories, Charleston, SC
Special Assays
Savannah Laboratories & Environmental Services, Inc., Savannah, GA
Singleton Laboratory, Louisville, TN
SIMALABS International, Cincinnati, OH
Paducah Remediation Services Field Screen Lab
PRC Environmental
LMES-Portsmouth Plant
Portage Field Screen Lab
LMES-Paducah Gaseous Diffusion Plant
Pennington and Associates, Cookeville, TN
Paragon Analytics, Inc. Fort Collins, CO
PACE, Inc., Broken Arrow, OK

PACE, Inc.
Safety and Ecology Corporation Radcon Alliance Laboratory
SEC Trailer at C-755
Sciencetech, Inc. Carrollton, TX
Science Application International Corporation Field Lab
S-Cubed
Rust Remedial Services, Anderson, SC
Radioactive Materials Analytical Laboratory, ORNL (Bldg. 2026)
Recra LabNet, Lionville, PA
Lionville Laboratory, Lionville, PA
RDD (Phase 2)
Radian Corporation Laboratory
Quanterra Laboratory
GEL Laboratories of Ohio, Cincinnati, OH
Charleston
Field Sample
Frontier Geosciences Inc., Seattle, WA
Florida A and M University Laboratory, Tallahassee, FL
EcoTek Laboratory Services Inc., Atlanta, GA
Environmental Protection Agency, Las Vegas, NV
Environmental Chemical Corporation, Cincinnati, Ohio
GPL Laboratories, LLLP Frederick, MD - AIP
GPL Laboratories, LLLP Montgomery, AL - AIP
ORNL-Grand Junction Office
GEO Consultants - Field Kits
Eberline Services, Oak Ridge, TN
Eberline Services, Albuquerque, NM
Eberline Services, Richmond, CA
DataChem Laboratories, Salt Lake City, UT
DataChem Laboratories, Cincinnati, OH
CTL Engineering Inc., Columbus, OH
Beacon Environmental Services, Inc., Bel Air, MD
Barringer Laboratory, Inc. Golden, Colorado
Analytical Services Organization
Aquatic Resources Center, Franklin, TN
ALS Laboratory Group For Collins, CO formerly Paragon Analytics, Inc.
Ambient Air
Air Quality Control Matrix
Biota, Whole Animal
Drill Cuttings
Biota, Excreta (feces)
Aquatic Bird
Aquatic Animal
Porewater
Paint
Precipitation
Insulation
Heating Water
Gravel
Green Salt
Treated Water

Tissue Quality Control Matrix
Plant Tissue
Terrestrial (Some combination at least 2) of bird, plant, or animal.)
Terrestrial Bird
Animal Tissue
Solid Waste
Swab or Wipe
Scrapings
Coolant (liquid)
Ceiling Material
Water Quality Control Matrix
Drinking Water
Ocean Water
Water that has leached through waste
Equipment Wash Water, i.e., Water used for Washing
Groundwater
Estuary
Well Development Water
Wall corings
Yellow Cake
Special Water Quality Control Matrix
Waste Water
Water From Vadose Zone
Surface Water
Soil/Solid Quality Control Matrix
Floor Sweepings
Soil
Supernatant
Sludge
Filter Sandpack
Sediment (associated with surface water)
Cement
Grout
Filter
Filter Residue
Flooring Material
Eggs
Effluent Air
Wood
Asphalt
Residue (not associated with filters)
Roofing Material
Aquatic Plant
Benthic Organism
Aquatic (Some combination of at least 2) of bird, plant, animal; Excludes benthic organism
Non-Water Liquid
Not Available
Metal Shavings
Milk
Metal Coupons
Liquid From Vadose Zone

Liquid from tank
Oil, All Types (Transformer, Waste, Motor, Mineral)
Floating/Free Product on Groundwater Table
Liquid Emulsion
Drilling Fluid
Soil Gas
Other, defined in COMMENTS column
Result exceeds daily maximum permit limit
Result was included in a monthly average that exceeded the monthly average maximum permit limit
Mass loading based on this result was included in a weekly average that exceeded the weekly average mass loading limit
Mass loading based on this result was included in a monthly average that exceeded the monthly average mass loading limit
Result was included in a weekly average that exceeded the weekly average maximum permit limit
Result does not meet daily minimum permit limit
Result exceeds statistical controls based on historical data
No verification performed for criteria, holding time expired
Result exceeds established criteria, permit limits and holding time exceeded for this analysis
Result exceeds established criteria and permit limits
Result exceeds established criteria, Holding time exceeded for this analysis
Result exceeds established criteria, historical statistics and permit limits
Result exceeds established criteria and historical statistics and holding time exceeded for this analysis.
Result exceeds established criteria and historical statistics
Result exceeds established criteria
Protocol deviation
Mass loading based on this result exceeds daily maximum mass loading limit
Result does not meet daily minimum permit limit and exceeds historical statistics
Result exceeds permit limits and holding time exceeded for this analysis
Result exceeds permit limits
Holding time exceeded for this analysis
Result exceeds historical statistics and permit limits and holding time exceeded for this analysis
Result exceeds historical statistics and permit limits
Result exceeds statistical controls based on historical data and holding time exceeded for this analysis
No verification information available
Refer to RSLT_PREFIX_QUALIFIER for more information
FURA/HERB/PPCB/SVOA/TCLPHRB/TCLPVOA/TCLPSVL/TCLPPST/VOA: Surrogate values outside of control limits; ALL ANALYSIS TYPES: Duplicate analysis not within control limits (pre
Numerical value reported was less than the requested reporting limit (e.g. MDL, MDA, RRL, IDL).
Actual value was greater than the reported result.
METAL: Correlation coefficient for MSA (Method of Standard Additions) < 0.995
contamination
Flag three, defined in COMMENTS column
Chemical yield exceeds acceptance limits
METEO: Rate of change exceeded; DI FURA/HERB/PPCB/SVOA/TCLPHRB/TCLPVOA/TCLPSVL/TCLPPST/VOA: Used when more than five qualifiers are required for a result
METAL: Post-digestion spike for AA(Atomic Absorption) out of control limit
Incomplete sample (e.g., sample is a partial file); METEO: Variable wind direction
ALL ANALYSIS TYPES: Not detected
METEO: Rate of change alarm limit exceeded (data valid)
ANION/METAL/OTHIN/TCLPMET/WETCHEM: Spike recovery not within control limits; SVOA/VOA: Applied to TIC (Tentatively Identified Compound) results that are reported as specific compounds based on a mass spectral library search; ALL ANALYSIS TYPES: Test was t
METAL: Duplicate injection precision not met; RADS: Matrix Spike recovery is < 80% or > 120% (pre-05/30/03 definition)
METEO: Low alarm limit exceeded (data valid); RADS: Reported measurement is associated with a negative blank; RADS: Laboratory Control Sample activity exceeds plus/minus 3 standard deviations of the mean (pre-05/30/03 definition)

RADS: Missing one or more lines in spectrum
BIOSURVY: Estimated value; ALL ANALYSIS TYPES: Estimated Quantitation; ANION/DI FURA/HERB/PHYSC/PPCB/RADS/SVOA/VOA: Estimated, TIC (Tentatively Identified Compound) or < specified detection limit (pre-05/30/03 definition)
BIOTOX: Indeterminate sex; RADS: Tentatively identified isotope(Mixed Waste Characterization Project, Y-12 Oil Land Farm Soils definition)
Analysis performed outside holding time requirement.; METEO: High alarm limit exceeded(data valid)
BIOTOX: Male
BIOSURVY/BIOTOX: Thin individual; RADS: Tracer recovery is <20% or >105%
METAL/TCLPMET: Determined by Method of Standard Additions; DI FURA: Signal-to-noise ratio of the confirmation ion does not meet 2.5 S/N requirement but peak was determined to be positive in the judgement of the GC/MS analyst
Rejected
HERB/PPCB: > 25% difference between two columns for Pesticides/Aroclors; METEO: Power down during reporting interval; BIOPOP: Value reflects loss to predation
BIOSURVY: Fat individual; RADS: For alpha spec., FWHM(Full Width at Half Max) exceeded acceptance limits
FURA/HERB/OTHOR/PPCB/SVOA/TCLPHRB/TCLPVOA/TCLPSVL/TCLPPST/VOA: Concentration exceeds calibration range of the instrument
METEO: Channel disabled during interval; RADS: Sample is statistically different from duplicate; BIOPOP: Value reflects decrease due to sampling; DI FURA/HERB/PPCB/SVOA/TCLPHRB/TCLPVOA/TCLPSVL/TCLPPST/VOA/OTHOR: Identified in an analysis at a secondary di
ANION/METAL/OTHIN/TCLPMET/WETCHEM: Value was less than the CRDL (Contract Required Detection Limit) or RRL (Required Reporting Limit) specified, but greater than or equal to the IDL (Instrument Detection Limit)/MDL (Method Detection Limit); DI FURA/HERB/P
SVOA/VOA: TIC (Tentatively Identified Compound) was suspected aldol condensation product; PPCB/SVOA/VOA: Suspected aldol-condensation product (pre-05/30/03 definition) RAD: Analyzed but not detected at the analyte quantitation limit. (LAB_CODEs PORTS, PGD
Other, defined in COMMENTS column
Other, defined in COMMENTS column
Deionized Water used for preparing blanks, etc.
Preservative blank
Regular
Toxicity Laboratory Control Sample
Trip Blank
QC Equipment Rinsate/Decon
Replicate 4
Replicate 3
Replicate 2
Replicate 1
Replicate
Regular sample, secondary analysis
Refrigerator blank
Field Replicate (Code used for Field Duplicate)
Filter Blank
Field Blank
Laboratory dilution
percent
percent moisture
API Gravity
roentgen
pascal
litre per second
litre per minute
litre per day
litre
potassium hydroxide equivalent
pressure for Barometer
international units per litre
hertz



Heterotrophic bacteria per milliliter
centistokes
average count
percent of total atoms of the element analyzed
asbestos type
THB per milliliter
total color units
standard unit
Saybolt Universal Seconds
siemens (siemens = 1.000000 E-08 mho)
degree Celsius
Permeability of porous solids
day
counts per second per kilogram
counts per minute
count per square meter
count
coliform per 100 millilitres
cubic centimetres per cubic centimetres
Count per seconds
Chloroplatinate - the amount of color measured against a standard that is a function of the amount of platinum in the standard.
coulomb per kilogram
British thermal unit per pound
British thermal unit
becquerel per millilitre
becquerel per kilogram
becquerel per gram
becquerel per filter
becquerel per litre
becquerel
year
weight part per million
weight percent
volume percent
microconductance in reciprocal ohm per centimetre
microconductance in reciprocal ohm
micrometre
MicroGrams U-235 per Gram
MicroGrams U-235 per Liter
microgram siemens per gram
microgram per wipe
microgram per tube
microgram per sample
microgram per millilitre of U
microgram per millilitre
microgram per milligram
microgram per cubic metre
microgram per kilogram
microgram per gram of U
microgram per gram
microgram per filter

microgram per cubic centimetre
micrograms per square centimetre
microgram per square centimetre
microgram per litre
micrograms Plutonium per Kilogram Uranium
micrograms Neptunium per Kilograms Uranium
micrograms of carbon incorporated per microgram of chlorophyll-a per hour
micrograms of carbon incorporated per square centimetre per hour
microgram
microsiemens per centimetre
milliRem
microlitre
microcurie per sample
microcurie per millilitre
microcurie per gram
microcurie per litre
microcoulomb per litre
total micrograms of U
total micrograms
total grams
ton per year
second
relative standard deviation
rem (dose equivalent)
rad (absorbed dose)
part per trillion
part per million per volume
part per million
part per billion per volume
part per billion
part per billion
picomoles per minute, per mg of microsomal protein
picomoles per milligram per minute
phase
picograms per gram
picogram per litre
picocurie per wipe
picocurie per microgram
picocurie per sample
picocurie per millilitre
picocurie per milligram
picocurie per cubic metre
picocurie per kilogram
pCi per gram UF6
picocurie per gram
picocurie per filter
picocurie per litre
picocurie
ounce per gallon
ounces
organism per millilitre

organism per litre
ohms per cubic centimetre
ohm
no unit (units are not associated with this parameter)
nanomoles per minute, per mg of microsomal protein
nanomoles per milligram per millilitre
nanomoles per milligram of microsomal protein
nanomoles per milligram
nanometre
nanogram per millilitre
nanograms per cubic meter
nanogram per kilogram
nanogram per gram
nanogram per litre
nanogram
mean relative unit
millirem per hour
mrem (dose equivalent)
mole percent
Molarity
square millimetre
millimetre per year
pressure in millimetre of mercury
millimetre
milliliter per minute
millilitre per litre
millilitre per 100 millilitres
millilitre
minute
conductance in reciprocal ohm
millions of gallons per day
millions of gallons
milligram per tube
milligram per millilitre
milligram per cubic metre
milligram per kilogram
milligram per gram
milligram per filter
milligram per decilitre
milligram per litre as calcium carbonate
milligram per litre
milligram per kilogram per second
milligrams of microsomal protein per gram of liver (wet weight)
milligram
milliequivalent per gram
milliequivalent per litre
milliequivalent per 100 grams
millivolt
millisiemens per centimetre
milliroentgen per hour
metre roentgen

megahertz
milliCuries per week
cubic metre per second
square metre per second
square metre
metre per second
metre
pounds
pound per cubic foot
pound per day
pound
kilogram per cubic metre
kilogram per day
kilogram per Liter
kilogram
kilopascal
kilohertz
inch
hour
gallons per week
gallon per second
gallon per minute
gallon per day
UNITS
gallon per day per foot
gallon
Grams U-235 per sample
Grams U-235 per Gram
Grams U-235 per Liter
Grams U-235 for wipe/smear/filter samples
grams Uranium per sample
Grams U per Gram
Grams U per Liter
gigahertz
gram per millilitre
Gram per Kilogram
gram per gallon
gram per gram of sample
gram per gram
gallon per day per square foot
gram per cubic centimetre
gram per litre
gram
cubic foot per second
cubic foot per minute
cubic foot per day
cubic foot
square foot per day
square foot
foot per second
foot per day

foot
fiber per square millimetre
fiber per field
Equivalence or normality
drop (eye dropper)
disintegration per minute per sample
disintegration per minute per millilitre
disintegration per minute per gram
disintegration per minute per filter
disintegration per minute per litre
disintegration per minute per 100 millilitre
disintegration per minute
degrees of an angle
degree Fahrenheit
cubic centimetre
square centimetre per second
square centimetre
centimetre per second
centimetre
centigram
Colony forming units/milliliter
centipoise
pounds per square inch atmosphere
Pounds per square inch
Pounds per cubic foot
transmittance
Not Available
newton per centimetre
newton
cubic megametre per second
SRB per milliliter
Standard cubic centimetre per minute
curie
Apparent Specific Gravity
Specific Gravity unit from SWRI
apparent color unit
percent that passed through previous sieve
percent recovery
Validated result, which is detected and unqualified
E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. Detected above the reported detection limit, and the reported detection limit is approximated due to quality defici
The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
Result rejected by validator; Indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification." the sample.
Result rejected by validator; E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample; Indicates the presence of an analyte for which there is presumptive evidence to make a deficiency.
Result rejected by validator.
Presumptively present at an estimated quantity (use with TICS only).
The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Data evaluation performed; Validation qualifiers not applied; Refer to RSLTQUAL field for more information

Unknown; Refer to the RSLTQUAL field for more information
Not validated; Refer to the RSLTQUAL field for more information
Not validated; Refer to the RSLTQUAL field for more information
deficiency.
E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;Indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;Indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."
E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
E= J=The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Other, defined in COMMENTS column(historical)
deficiency.
Detected above the reported detection limit, the reported detection limit is approximated due to quality deficiency;Positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.