

The order of this data package is as follows:

1. Chain-of-Custody/Lab Request
2. Copies of field COCs
3. Validation Report
4. Laboratory analysis

Comments:

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130589

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/18/17	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1147		MEDIA:	UA	
PRS ID:	OK		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-55i		FIELD PREP:	UF	
LOCATION TYPE:	Mon		FIELD QC TYPE:	REG	
TOP DEPTH:	OK		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

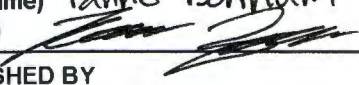

SAMPLE COMMENTS: Sampled 40 ft. from running diesel generator

LOCATION COMMENTS: None

FIELD PARAMETERS:

Dissolved Oxygen	3.94	mg/L	Flow (in gpm)	2.4	GPM	Oxidation-Reduction Potential	50.7	mV
pH	7.42	SU	Specific Conductance	306.3	uS/cm	Temperature	18.7	deg C
Turbidity	0.53	NTU						

COLLECTED BY (PRINT): T. Bonham

RELINQUISHED BY (Printed Name) Tanner Bonham (Signature) 	Date/Time 4/18/17 1220	RECEIVED BY (Printed Name) K. Greene (Signature) 	Date/Time 4/18/17 12:20
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130715

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-17-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	11:09	1	MEDIA:	UA	1
PRS ID:	NA	1	SAMPLE TECH CODE:	RSP	1
LOCATION ID:	R-40 Si	1	FIELD PREP:	UF	1
LOCATION TYPE:	NA	1	FIELD QC TYPE:	REG	1
TOP DEPTH:	1	1	SAMPLE USAGE:	INV	1
BOTTOM DEPTH:	1	1	EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

SAMPLE COMMENTS:

04/17/17 None Foamy at top of sample in bottle.

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	0.36	mg/L	Flow (in gpm)	0.64	GPM	Oxidation-Reduction Potential	-97.2	mV
pH	7.39	SU	Specific Conductance	256.5	uS/cm	Temperature	16.8	deg C
Turbidity	0.51	NTU						

COLLECTED BY (PRINT): T. Bonham, W. Pryce

RELINQUISHED BY (Printed Name) (Signature)	Whitney Pryce	Date/Time 4/17/2017 13:40	RECEIVED BY (Printed Name) (Signature)	S. Sherwood	Date/Time 4/17/17 1340
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130585

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/12/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1441	OK	MEDIA:	UA	OK
PRS ID:		NA	SAMPLE TECH CODE:	GSP	OK
LOCATION ID:	R-37 S2	OK	FIELD PREP:	UF	OK
LOCATION TYPE:		OK	FIELD QC TYPE:	REG	OK
TOP DEPTH:		OK	SAMPLE USAGE:	INV	OK
BOTTOM DEPTH:		OK	EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
NA	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

SAMPLE COMMENTS:

Sampled 50 ft from running generator

LOCATION COMMENTS:

Windy during sampling

FIELD PARAMETERS:

Dissolved Oxygen	6.35	mg/L	Flow (in gpm)	10.7	GPM	Oxidation-Reduction Potential	202.4	mV
pH	7.99	SU	Specific Conductance	136.9	uS/cm	Temperature	21.5	deg C
Turbidity	.74	NTU						

COLLECTED BY (PRINT): D. Jaramillo

RELINQUISHED BY (Printed Name) <u>Arnel Jaramillo</u> (Signature) <u>[Signature]</u>	Date/Time 4/12/17 1515	RECEIVED BY (Printed Name) <u>K. Greene</u> (Signature) <u>[Signature]</u>	Date/Time 4/12/17 3:15
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130584

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/13/17	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1242		MEDIA:	UA	
PRS ID:	OK		SAMPLE TECH CODE:	RSP	
LOCATION ID:	R-37 S1		FIELD PREP:	UF	
LOCATION TYPE:	Mon		FIELD QC TYPE:	REG	
TOP DEPTH:	OK		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL/INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
↓	WSP-8270C-SVOA	1 LITER AMBER GLASS	2	ICE	↓	↓
↓	WSP-LL-H-3	1 LITER POLY	1	NONE	↓	↓

SAMPLE COMMENTS: Windy + dusty while sampling

LOCATION COMMENTS: None

FIELD PARAMETERS:

Dissolved Oxygen	2.05	mg/L	Flow (in gpm)	0.81	GPM	Oxidation-Reduction Potential	159.3	mV
pH	8.42	SU	Specific Conductance	235.4	uS/cm	Temperature	18.0	deg C
Turbidity	0.15	NTU						

COLLECTED BY (PRINT): A. Vigil

RELINQUISHED BY (Printed Name) Andrew Vigil (Signature) <i>Andrew Vigil</i>	Date/Time 4/13/17 1335	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 4/13/17 1335
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130717

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-18-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	13:25		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-49 S1		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:	↓	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
1	WSP-LL-H-3	1 LITER POLY	1	NONE	1	↓

SAMPLE COMMENTS:

Sampled ≈ 50 ft. from running diesel generator

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	4.12	mg/L	Flow (in gpm)	1.56	GPM	Oxidation-Reduction Potential	208.6	mV
pH	7.98	SU	Specific Conductance	151.3	uS/cm	Temperature	22.7	deg C
Turbidity	6.91	NTU						

COLLECTED BY (PRINT): A. Vigil

RELINQUISHED BY (Printed Name) ANDREW VIGIL (Signature) Andrew Vigil	Date/Time 04/18/2017 1533	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 4/18/17 1533
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130718

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-18-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	15:00		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-49 S2		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:	1		SAMPLE USAGE:	INV	
BOTTOM DEPTH:	1		EXCAVATED:		YES / NO <input checked="" type="checkbox"/> NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
1	WSP-LL-H-3	1 LITER POLY	1	NONE	1	1

SAMPLE COMMENTS:

Sampled \approx 50' from running diesel generator.

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	6.73	mg/L	Flow (in gpm)	246	GPM	Oxidation-Reduction Potential	256.7	mV
pH	8.03	SU	Specific Conductance	141.3	uS/cm	Temperature	22.7	deg C
Turbidity	0.59	NTU						

COLLECTED BY (PRINT): A.V.G.I

RELINQUISHED BY (Printed Name) ANDREW VIGIL (Signature) Andrew Vigil	Date/Time 04/18/2017 1535	RECEIVED BY (Printed Name) S. Sherwood (Signature) S. Sherwood	Date/Time 4/18/17 1535
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130713

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-17-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	13:19		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	RSP	
LOCATION ID:	R-40 S1		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:			SAMPLE USAGE:	INV	
BOTTOM DEPTH:			EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
L	WSP-LL-H-3	1 LITER POLY	1	NONE	L	L

SAMPLE COMMENTS:

Gusty (~15 mph) wind during sampling

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	1.50	mg/L	Flow (in gpm)	0.46	GPM	Oxidation-Reduction Potential	53.3	mV
pH	9.04	SU	Specific Conductance	162.8	uS/cm	Temperature	12.6	deg C
Turbidity	0.35	NTU						

COLLECTED BY (PRINT): T. Bonham, W. Pryce

RELINQUISHED BY (Printed Name) (Signature)	Whitney Pryce 	Date/Time 4/17/2017 1340	RECEIVED BY (Printed Name) (Signature)	S. Sherwood 	Date/Time 4/17/17 1340
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130711

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/17/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1213	OK	MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-32 S1		FIELD PREP:	UF	
LOCATION TYPE:	INA		FIELD QC TYPE:	REG	
TOP DEPTH:	↓		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
↓	WSP-LL-H-3	1 LITER POLY	1	NONE	↓	↓

SAMPLE COMMENTS: None

LOCATION COMMENTS: Sampled 50 ft from running diesel generator

FIELD PARAMETERS:

Dissolved Oxygen	<u>4.45</u> mg/L	Flow (in gpm)	<u>2.29</u> GPM	Oxidation-Reduction Potential	<u>161.0</u> mV
pH	<u>7.07</u> SU	Specific Conductance	<u>164.6</u> uS/cm	Temperature	<u>19.4</u> deg C
Turbidity	<u>0.55</u> NTU				

COLLECTED BY (PRINT): T. Walker

RELINQUISHED BY (Printed Name) (Signature)	T. Walker <i>T. Walker</i>	Date/Time <u>1255</u> <u>4/17/2017</u>	RECEIVED BY (Printed Name) (Signature)	<i>M. Martin</i> <i>[Signature]</i>	Date/Time <u>4/17/17</u> <u>1255</u>
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130712

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4-14-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1109		MEDIA:	UA	
PRS ID:	OK		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-39		FIELD PREP:	UF	
LOCATION TYPE:	OK		FIELD QC TYPE:	REG	
TOP DEPTH:			SAMPLE USAGE:	INV	
BOTTOM DEPTH:			EXCAVATED:		YES / <u>NO</u> / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
↓	WSP-LL-H-3	1 LITER POLY	1	NONE	↓	↓

SAMPLE COMMENTS: Sampled SOA. from running diesel generator

LOCATION COMMENTS: Breezy while sampling

FIELD PARAMETERS:

Dissolved Oxygen	5.70	mg/L	Flow (in gpm)	2.38	GPM	Oxidation-Reduction Potential	127.3	mV
pH	6.72	SU	Specific Conductance	132.6	uS/cm	Temperature	12.9	deg C
Turbidity	1.1	NTU						

COLLECTED BY (PRINT): T. Walker

RELINQUISHED BY T. Walker (Printed Name) (Signature) <i>T.H. Walker</i>	Date/Time 4/14/2017 11:50	RECEIVED BY K. Greene (Printed Name) (Signature) <i>K. Greene</i>	Date/Time 4/14/17 11:50
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130760

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-14-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	10:57		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-41 S2		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	FD	
TOP DEPTH:			SAMPLE USAGE:	QC	
BOTTOM DEPTH:			EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
L	WSP-LL-H-3	1 LITER POLY	1	NONE	L	L

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

Dissolved Oxygen _____ mg/L Flow (in gpm) 0.44 GPM Oxidation-Reduction Potential _____ mV
 pH _____ SU Specific Conductance _____ uS/cm Temperature _____ deg C
 Turbidity _____ NTU

COLLECTED BY (PRINT):

A. Vigil

RELINQUISHED BY (Printed Name) <u>ANONCE VIGIL</u> (Signature) <u>[Signature]</u>	Date/Time 04/14/2017 11:50	RECEIVED BY (Printed Name) <u>14. G. [Signature]</u> (Signature) <u>[Signature]</u>	Date/Time 4/14/17 11:50
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130716

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04-14-2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	10:57		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-41 S2		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:			SAMPLE USAGE:	INV	
BOTTOM DEPTH:			EXCAVATED:		YES / NO / <u>NA</u>

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
J	WSP-LL-H-3	1 LITER POLY	1	NONE	J	J

SAMPLE COMMENTS:

gusty wind (≈ 20 mph during sampling); Sampled $\approx 50'$ from running diesel generator

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	<u>6.32</u>	mg/L	Flow (in gpm)	<u>2.83</u>	GPM	Oxidation-Reduction Potential	<u>167.7</u>	mV
pH	<u>8.14</u>	SU	Specific Conductance	<u>158.9</u>	uS/cm	Temperature	<u>22.0</u>	deg C
Turbidity	<u>0.36</u>	NTU						

COLLECTED BY (PRINT):

A. Vigil

RELINQUISHED BY (Printed Name) ANDREW VIGIL (Signature) <i>Andrew Vigil</i>	Date/Time 04/14/2017 11:50	RECEIVED BY (Printed Name) <i>H. Greene</i> (Signature) <i>[Signature]</i>	Date/Time 4/14/17 11:50
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130588

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/19/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1337		MEDIA:	UA	↓
PRS ID:	OK		SAMPLE TECH CODE:	OK	GSP
LOCATION ID:	R-55 S2		FIELD PREP:	UF	OK
LOCATION TYPE:	OK		FIELD QC TYPE:	REG	↓
TOP DEPTH:	↓		SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B- VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
↓	WSP-LL-H-3	1 LITER POLY	1	NONE	↓	↓

SAMPLE COMMENTS: Sampled 30 ft. from running diesel generator

LOCATION COMMENTS: None

FIELD PARAMETERS:

Dissolved Oxygen	_____	mg/L	Flow (in gpm)	_____	GPM	Oxidation-Reduction Potential	_____	mV
pH	_____	SU	Specific Conductance	_____	uS/cm	Temperature	_____	deg C
Turbidity	_____	NTU						

COLLECTED BY (PRINT): T. Walker

RELINQUISHED BY (Printed Name) (Signature)	Tom Walker <i>T. Walker</i>	Date/Time 4/19/17 1530	RECEIVED BY (Printed Name) (Signature)	M. Martin <i>M. Martin</i>	Date/Time 4/19/17 1530
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130587

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	4/19/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1218		MEDIA:	UA	↓
PRS ID:	OK		SAMPLE TECH CODE:		GSP
LOCATION ID:	R-55 S1		FIELD PREP:	UF	OK
LOCATION TYPE:	OK		FIELD QC TYPE:	REG	↓
TOP DEPTH:	↓	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	↓	↓	EXCAVATED:		YES / NO / (NA)

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
↓	WSP-LL-H-3	1 LITER POLY	1	NONE	↓	↓

SAMPLE COMMENTS: Sampled 30ft. from running diesel generator

LOCATION COMMENTS: none

FIELD PARAMETERS:

Dissolved Oxygen	<u>6.25</u>	mg/L	Flow (in gpm)	<u>2.94</u>	GPM	Oxidation-Reduction Potential	<u>250.3</u>	mV
pH	<u>8.15</u>	SU	Specific Conductance	<u>175.9</u>	uS/cm	Temperature	<u>22.8</u>	deg C
Turbidity	<u>0.38</u>	NTU						

COLLECTED BY (PRINT): T. Walker

RELINQUISHED BY (Printed Name) (Signature)	Tom Walker <i>T. Walker</i>	Date/Time 4/19/17 1530	RECEIVED BY (Printed Name) (Signature)	<i>M. Mark</i>	Date/Time 4/19/17 1530
RELINQUISHED BY (Printed Name) (Signature)		Date/Time	RECEIVED BY (Printed Name) (Signature)		Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130597

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/19/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	4:19 PM 1026 1126		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-38		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	FD	
TOP DEPTH:	↓		SAMPLE USAGE:	QC	↓
BOTTOM DEPTH:	↓		EXCAVATED:		YES / NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
NA	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

SAMPLE COMMENTS:

LOCATION COMMENTS:

FIELD PARAMETERS:

Dissolved Oxygen _____ mg/L Flow (in gpm) _____ GPM Oxidation-Reduction Potential _____ mV
pH _____ SU Specific Conductance _____ uS/cm Temperature _____ deg C
Turbidity _____ NTU

COLLECTED BY (PRINT):

RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
Damen Hughes	04-19-2017 14:45	Shenwood	4/19/17 1445
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAMO-17-130586

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/19/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	4/19/17 1026-1126		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	GSP	
LOCATION ID:	R-38		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:			SAMPLE USAGE:	INV	
BOTTOM DEPTH:			EXCAVATED:		YES <input checked="" type="checkbox"/> NO / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
WS 4/19/17 NA	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
WS 4/19/17 NA	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

SAMPLE COMMENTS: Samples collected w/ running generator 40' away.

LOCATION COMMENTS: None

FIELD PARAMETERS:

Dissolved Oxygen	6.46	mg/L	Flow (in gpm)	2.58	GPM	Oxidation-Reduction Potential	156.1	mV
pH	6.73	SU	Specific Conductance	139.4	uS/cm	Temperature	19.0	deg C
Turbidity	0.38	NTU						

COLLECTED BY (PRINT): D. Hughes

RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
Damen Hughes <i>[Signature]</i>	04-19-2017 14:45	S. Sherwood <i>[Signature]</i>	4/19/17 1445
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11162

EVENT NAME: Pajarito (TA-54) MY2017 Q3

SAMPLE ID: CAPA-17-130714

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
Date Collected (MM/DD/YYYY):	04/19/2017	OK	FIELD MATRIX:	WG	OK
TIME COLLECTED (HH:MM):	1401		MEDIA:	UA	
PRS ID:	NA		SAMPLE TECH CODE:	ASP	
LOCATION ID:	R-40 S2		FIELD PREP:	UF	
LOCATION TYPE:	NA		FIELD QC TYPE:	REG	
TOP DEPTH:	↓	↓	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:			EXCAVATED:		YES / <u>NO</u> / NA

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
	WSP-8260B-VOA	40 ML SEPTUM AMBER GLASS	2	HCL	Y	NA
	WSP-LL-H-3	1 LITER POLY	1	NONE	Y	NA

SAMPLE COMMENTS: Samples retrieved while generator was running approx 40' away.
Gusty winds present while sampling.

LOCATION COMMENTS:

None

FIELD PARAMETERS:

Dissolved Oxygen	7.04	mg/L	Flow (in gpm)	2.05	GPM	Oxidation-Reduction Potential	113.8	mV
pH	8.33	SU	Specific Conductance	127.0	uS/cm	Temperature	21.3	deg C
Turbidity	0.76	NTU						

COLLECTED BY (PRINT): D. Hughes

RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time
Darren Hughes <i>[Signature]</i>	04-19-2017 14:45	S. Sherwood <i>[Signature]</i>	4/19/17 1445
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Report Date: 03/27/2017

DATA VALIDATION REPORT

Chain Of Custody No. 2017-1412

1. Distribution Of Samples In EDD.

SDG	Analytical Method	Regular Samples	Field Duplicates	Trip Blanks	Field Blanks	Equipment Blanks
ARS1-17-01103	Generic:Low_Level_Tritium	1				
ARS1-17-01103	Generic:Low_Level_Tritium	1				
ARS1-17-01103	Generic:Low_Level_Tritium	2	1			
ARS1-17-01103	Generic:Low_Level_Tritium	3				
ARS1-17-01103	Generic:Low_Level_Tritium	3				
ARS1-17-01103	Generic:Low_Level_Tritium	4	1			

SDG	Analytical Method	Analysis Lot ID	Prep Lot ID	Regular Samples	Field Duplicates	Trip Blanks	Field Blanks	Equipment Blanks	Method Blanks	Matrix Spikes	Matrix Spike Dups	Analytical Spikes	Post-Digestion Spikes	Lab Control Samples	Lab Control Sample Dups	Blank Spike	Blank Spike Dups	Lab Duplicates	Storage Blanks	Preparation Blanks	Reagent Blanks
ARS1-17-01103	Generic:Low_Level_Tritium	ARS1-B17-	ARS1-B17-	14	2				1					1	1						

2. Distribution Of Analytes In EDD.

Analytical Method	Analytical Method Category	Field Sample ID	Lab Sample ID	Sample Purpose	Target Analytes	Surrogates	Spiked Compounds	TICS
Generic:Low_Level_Tritium	RAD	CAMO-17-130584	ARS1-B17-00998-05	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130585	ARS1-B17-00998-06	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130586	ARS1-B17-00998-07	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130587	ARS1-B17-00998-17	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130588	ARS1-B17-00998-18	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130589	ARS1-B17-00998-19	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAMO-17-130597	ARS1-B17-00998-08	FD	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130711	ARS1-B17-00998-04	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130712	ARS1-B17-00998-09	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130713	ARS1-B17-00998-10	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130714	ARS1-B17-00998-11	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130715	ARS1-B17-00998-12	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130716	ARS1-B17-00998-13	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130717	ARS1-B17-00998-15	REG	1	0	0	0
Generic:Low_Level_Tritium	RAD	CAPA-17-130718	ARS1-B17-00998-16	REG	1	0	0	0

DATA VALIDATION REPORT

Analytical Method	Analytical Method Category	Field Sample ID	Lab Sample ID	Sample Purpose	Target Analytes	Surrogates	Spiked Compounds	TICS
Generic:Low_Level_Tritium	RAD	CAPA-17-130760	ARS1-B17-00998-14	FD	1	0	0	0
Generic:Low_Level_Tritium	RAD	LCS	ARS1-B17-00998-01	LCS	0	0	1	0
Generic:Low_Level_Tritium	RAD	LCSD	ARS1-B17-00998-02	LCSD	0	0	1	0
Generic:Low_Level_Tritium	RAD	MB	ARS1-B17-00998-03	MB	1	0	0	0

3. Are any analytes missing?

No.

4. Were any holding times exceeded?

No.

5. Any contaminants in blanks?

No.

6. Any surrogate recoveries outside the control limits?

No.

7. Any MS/MSD recoveries or RPDs outside the control limits?

No.

8. Any LCS/LCSD or BS/BSD recoveries or RPDs outside the control limits?

No.

9. Any Field Duplicate RPDs outside the desired limits?

DATA VALIDATION REPORT

No.

10. Any Lab Duplicate RPDs outside the desired limits?

No.

11. Any required reporting limits exceeded?

No.

12. Additional Validator's Comments.

13. Display Flagged Data.

Location ID	COC Number	Field Sample ID	Sample Purpose	Analysis Type Code	Analytical Suite	Analytical Method	Parameter Name	Lab Qualifier	Validation Qualifier	Validation Reason Codes	Detect Flag	Lab Result	Lab Units	Report Result	Report Units	Report MDA	Report Uncertainty	Lab Matrix	Sample Date	Percent	Analysis Lot ID	Validation Status Code	Use Flag
R-37 S2	2017-1412	CAMO-17-130585	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-1.195	pCi/L	-1.195	pCi/L	2.590	0.760	W	04/12/2017		ARS1-B17-00998	VAL	Y
R-38	2017-1412	CAMO-17-130586	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-1.143	pCi/L	-1.143	pCi/L	3.200	0.935	W	04/19/2017		ARS1-B17-00998	VAL	Y
R-55 S1	2017-1412	CAMO-17-130587	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-1.606	pCi/L	-1.606	pCi/L	3.456	1.015	W	04/19/2017		ARS1-B17-00998	VAL	Y
R-55 S2	2017-1412	CAMO-17-130588	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.903	pCi/L	-0.903	pCi/L	2.892	0.845	W	04/19/2017		ARS1-B17-00998	VAL	Y
R-55i	2017-1412	CAMO-17-130589	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.239	pCi/L	-0.239	pCi/L	2.997	0.878	W	04/18/2017		ARS1-B17-00998	VAL	Y
R-38	2017-1412	CAMO-17-130597	FD	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.601	pCi/L	-0.601	pCi/L	2.709	0.791	W	04/19/2017		ARS1-B17-00998	VAL	Y
R-32 S1	2017-1412	CAPA-17-130711	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.667	pCi/L	-0.667	pCi/L	2.788	0.814	W	04/17/2017		ARS1-B17-00998	VAL	Y
R-39	2017-1412	CAPA-17-130712	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-1.357	pCi/L	-1.357	pCi/L	3.992	1.166	W	04/14/2017		ARS1-B17-00998	VAL	Y
R-40 S1	2017-1412	CAPA-17-130713	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-2.211	pCi/L	-2.211	pCi/L	3.109	0.932	W	04/17/2017		ARS1-B17-00998	VAL	Y
R-40 S2	2017-1412	CAPA-17-130714	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.847	pCi/L	-0.847	pCi/L	3.132	0.914	W	04/19/2017		ARS1-B17-00998	VAL	Y
R-40 Si	2017-1412	CAPA-17-130715	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.879	pCi/L	-0.879	pCi/L	3.168	0.925	W	04/17/2017		ARS1-B17-00998	VAL	Y
R-41 S2	2017-1412	CAPA-17-130716	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	0.166	pCi/L	0.166	pCi/L	2.819	0.834	W	04/14/2017		ARS1-B17-00998	VAL	Y
R-49 S1	2017-1412	CAPA-17-130717	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.404	pCi/L	-0.404	pCi/L	3.427	1.003	W	04/18/2017		ARS1-B17-00998	VAL	Y
R-49 S2	2017-1412	CAPA-17-130718	REG	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-2.808	pCi/L	-2.808	pCi/L	3.055	0.942	W	04/18/2017		ARS1-B17-00998	VAL	Y
R-41 S2	2017-1412	CAPA-17-130760	FD	INIT	RAD	Generic:Low_Level_Tritiu	Tritium	U	U	R5	N	-0.752	pCi/L	-0.752	pCi/L	2.743	0.801	W	04/14/2017		ARS1-B17-00998	VAL	Y

Reason Code

Description

DATA VALIDATION REPORT

Reason Code

Description

NQ	The analytical laboratory did not qualify the analyte as not detected and/or any other standard qualify. The analyte is detected in the sample.
R5	Analyte is not detected because the amount reported is less than the MDC.

14. Usable Result Count.

Field Sample ID	Location ID	Sample Purpose	Analytical Method	No. Unuseable Records	Total Records
CAMO-17-130584	R-37 S1	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130585	R-37 S2	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130586	R-38	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130587	R-55 S1	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130588	R-55 S2	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130589	R-55i	REG	Generic:Low_Level_Tritium	0	1
CAMO-17-130597	R-38	FD	Generic:Low_Level_Tritium	0	1
CAPA-17-130711	R-32 S1	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130712	R-39	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130713	R-40 S1	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130714	R-40 S2	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130715	R-40 Si	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130716	R-41 S2	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130717	R-49 S1	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130718	R-49 S2	REG	Generic:Low_Level_Tritium	0	1
CAPA-17-130760	R-41 S2	FD	Generic:Low_Level_Tritium	0	1



ARS International, LLC

Laboratory Analysis Report

ARS1-17-01103

Prepared for:

Los Alamos National Laboratory

**Keith Greene
PO Box 1663
MS M992
Los Alamos, NM 87545**

kgreene@lanl.gov

Phone: 505-665-9966

Fax: 505-665-9972


Project Manager Review


Management Review

Notes: ARS International, LLC assumes no liability for the use or the interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to:

**Project Manager
ProjectManagers@amrad.com**

**Phone: 225.381.2991
Fax: 225.381.2996**





2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

June 27, 2017

LANL
Keith Greene
PO Box 1663 MS M992
Los Alamos, NM 87545

LANL Request Number: **2017-1412**
ARS SDG: **ARS1-17-01103**
Project : **ADEP**

Dear Mr. Greene;

On April 24, 2017, ARS International received sixteen (16) water samples to be analyzed for Low Level Tritium.

Samples were counted using the appropriate counting equipment and QA/QC for this type of analysis. Results of the analysis and QA/QC are attached in the data package.

If you have any questions please do not hesitate to call at 225.381.2991 or email LANL@amrad.com.

Sincerely,

Susan Leese
Project Manager
ARS International



2609 North River Road • Port Allen, Louisiana 70767

1 (800) 401-4277 • Fax (225) 381-2996

**PROJECT SAMPLE IDENTIFICATION
CROSS-REFERENCE
TO ARS SAMPLE LABORATORY IDs**
Subcontract (LANL Agreement Number) 250953

Request Number	LANL PROJECT SAMPLE ID NUMBER	American Radiation Services SAMPLE ID NUMBER(S)
2017-1412	CAPA-17-130711	ARS1-17-01103-001
2017-1412	CAPA-17-130584	ARS1-17-01103-002
2017-1412	CAPA-17-130585	ARS1-17-01103-003
2017-1412	CAPA-17-130586	ARS1-17-01103-004
2017-1412	CAPA-17-130597	ARS1-17-01103-005
2017-1412	CAPA-17-130712	ARS1-17-01103-006
2017-1412	CAPA-17-130713	ARS1-17-01103-007
2017-1412	CAPA-17-130714	ARS1-17-01103-008
2017-1412	CAPA-17-130715	ARS1-17-01103-009
2017-1412	CAPA-17-130716	ARS1-17-01103-010
2017-1412	CAPA-17-130760	ARS1-17-01103-011
2017-1412	CAPA-17-130717	ARS1-17-01103-012
2017-1412	CAPA-17-130718	ARS1-17-01103-013
2017-1412	CAPA-17-130587	ARS1-17-01103-014
2017-1412	CAPA-17-130588	ARS1-17-01103-015
2017-1412	CAPA-17-130589	ARS1-17-01103-016

SAMPLE RECEIPT

The samples were received in good condition and was screened for radioactive contamination as per procedure ARS-062 "Sample Receiving". Samples were checked in with a 40-day turnaround, per latest contract modification.



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ANALYTICAL METHODS

Tritium analyses were performed using ARS-040, "Tritium Assay in Water Samples Using Electrolytic Enrichment".

ANALYTICAL RESULTS

The MDCs for samples -006, -012, and -014 were slightly above CRDL of 3.221 pCi/L.

American Radiation Services Project Manager/Laboratory Director's Comments:

"I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this sample data package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature."

"I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the LANL specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager/Technical Director or the Manager's designee."

Jacob Byrd
Signature

Laboratory Management, ARS International
Title

6-29-17
Date

Notes (Case Narrative):

Comments:

- 1.0) All MDA/MDC values are calculated on a sample specific basis.
- 2.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 3.0) Data in this report are within the limits of uncertainty specified in the reference method unless otherwise specified.
- 4.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix. Modified analyses are indicated by the subsequent addition of "m" to the procedure number (i.e. 900.0M).
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228 (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234 (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
- 9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected (Gamma Spectroscopy only).
- 10.0) Gamma spectroscopy results are calculated values based on the ORTEC® GammaVision ENV32 Analysis Engine.
- 11.0) ACLASS DOD and ISO 17025 certification applies only to the following analytes and methods: Gross Alpha and Gross Beta (EPA 900, SM7110B&C, SW846 9310); Radium 226 (EPA 903, EPA 903.1, SM 7500 Ra-B, SW846 9315); Radium 228 (EPA 904, SM 7500 Ra-B SW846 9320); Iodine-131(EPA 901.1); Uranium by ICPMS (EPA 200.8); Strontium 89/90 (EPA 905, Eichrom SRW01, HASL 300 Sr-03-RC); Tritium (EPA 906, EPA 906M); Gamma Emitters (EPA 901.1, SM7120B, HASL 300 Ga-01-R); Americium-241, Curium 242/244, Plutonium 239/240 and 241, Thorium 228/230/232, Uranium 234/233 and 238 (Eichrom ACW03 VBS); Lead 210 (HASL 300 Pb-01-RC, Eichrom OTW01); Polonium 210 (HASL 300 Po-01-RC, HASL 300 Po-02-RC); Technetium-99 (Eichrom TCW02, Eichrom TCS01M).

Method References:

- 1.0) EPA 600/4-80-032; Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for the Examination of Water and Wastewater (On-Line Edition)
- 3.0) EPA SW-846; Test Methods for Evaluating Solid Waste, (On-Line edition)
- 4.0) EPA 600/4/79-020; Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300; The Procedures Manual of the Environmental Measurements Laboratory, Volume I, 28th Edition February, 1997.

Definitions:

CRDL	Contract Required Detection Limit
CSU	Combined Standard Uncertainty
DLC	Decision Level Concentration (ANSI N42.23) or critical level
DO	Duplicate Original
DUP	Method Duplicate
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MDC	(Minimum Detectable Concentration) minimum concentration of the analyte that ARS can detect utilizing the specific analysis
MBL	Method Blank
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
NP	Not Provided
NR	Not Referenced
LOD	Limit of Detection
LOQ	Limit of Quantitation

Data Qualifiers:

B	The analyte is found in both the associated method blank and the sample. This flag indicates probable blank contamination.
D	Sample analysis accomplished through dilution.
J	The reported result is an estimated value above the limit of detection but outside of quantitation range (e.g., matrix interference was observed).
Q	One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery, or CCV recovery).
U	Activity is below the MDC, MDA, MDL, or LOD
N	The analyte is a tentatively identified compound using mass spectrometry or any non-customer requested compounds that are tentatively identified.
*	LCS/LCSD or MS/MSD fails RPD criteria.
S	Spike
SC	Subcontracted out to another qualified laboratory
H	Holding time exceeded

LELAP Cert# 01949

NELAP Cert# E87558

ARS-059-010
Revision: 9.1
Revision Date: 03-14-2017



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130711

Sample Collection Date: 04/17/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-001

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.667	0.814	2.788	1.350	3.221	U	pCi/L	ARS-040	06/17/17 9:47	ECAMP	N/A

Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 01949



2609 North River Road, Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130584

Sample Collection Date: 04/13/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-002

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	35.945	5.579	3.025	1.465	3.221		pCi/L	ARS-040	06/17/17 14:58	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130585

Sample Collection Date: 04/12/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-003

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-1.195	0.760	2.590	1.255	3.221	U	pCi/L	ARS-040	06/17/17 20:10	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130586

Sample Collection Date: 04/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-004

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-1.143	0.935	3.200	1.550	3.221	U	pCi/L	ARS-040	06/18/17 1:21	ECAMP	N/A

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130597

Sample Collection Date: 04/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-005

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.601	0.791	2.709	1.312	3.221	U	pCi/L	ARS-040	06/18/17 6:32	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130712

Sample Collection Date: 04/14/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-006

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-1.357	1.166	3.992	1.933	3.221	U	pCi/L	ARS-040	06/18/17 11:44	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130713

Sample Collection Date: 04/17/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-007

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-2.211	0.932	3.109	1.506	3.221	U	pCi/L	ARS-040	06/18/17 16:55	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130714

Sample Collection Date: 04/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-008

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.847	0.914	3.132	1.517	3.221	U	pCi/L	ARS-040	06/18/17 22:06	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130715

Sample Collection Date: 04/17/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-009

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.879	0.925	3.168	1.534	3.221	U	pCi/L	ARS-040	06/19/17 3:18	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130716

Sample Collection Date: 04/14/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-010

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	0.166	0.834	2.819	1.366	3.221	U	pCi/L	ARS-040	06/19/17 8:29	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130760

Sample Collection Date: 04/14/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-011

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.752	0.801	2.743	1.329	3.221	U	pCi/L	ARS-040	06/19/17 13:40	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130717

Sample Collection Date: 04/18/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-012

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.404	1.003	3.427	1.660	3.221	U	pCi/L	ARS-040	06/19/17 18:52	ECAMP	N/A

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAPA-17-130718

Sample Collection Date: 04/18/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-013

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-2.808	0.942	3.055	1.480	3.221	U	pCi/L	ARS-040	06/20/17 0:03	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130587

Sample Collection Date: 04/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-014

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-1.606	1.015	3.456	1.674	3.221	U	pCi/L	ARS-040	06/20/17 5:14	ECAMP	N/A

Project Manager Review

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ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130588

Sample Collection Date: 04/19/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-015

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.903	0.845	2.892	1.401	3.221	U	pCi/L	ARS-040	06/20/17 10:26	ECAMP	N/A

Project Manager Review

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1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group: ARS1-17-01103

Client Sample ID: CAMO-17-130589

Sample Collection Date: 04/18/17

Sample Matrix: Aqueous

Percent Solids: N/A

Request or PO Number: 2017-1412

ARS Sample ID: ARS1-17-01103-016

Date Received: 04/24/17

Report Date: 06/27/17

Radiochemistry

Analysis Description	Analysis Results	CSU +/-1s	MDC	DLC	CRDL	Qual	Analysis Units	Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
Enriched H-3	-0.239	0.878	2.997	1.452	3.221	U	pCi/L	ARS-040	06/20/17 15:37	ECAMP	N/A

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QC Results per Analytical Batch

Analytical Batch	ARS1-B17-00998
SDG	ARS1-17-01103
Analysis	Low Level Tritium by Electrolytic Enrichment
Analysis Test Method	ARS-040/
Analysis Code	LSC-A-022
Report Units	pCi/L

Acceptable QC Performance Ranges

QC Sample Type	Performance Items and Ranges		
Laboratory Control Sample	Recovery (%):	> 80	< 120
Matrix Spike	Recovery (%):	> 60	< 140
Duplicate	Replicate Error Ratio (RER):	< 1	
	Duplicate Error Ratio (DER):	< 3	
	Relative Percent Difference (RPD %):	≤ 25	

Laboratory Control Sample			Analysis Date	06/16/17 18:13	Analysis Technician	ECAMP	
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (1s)	Expected Value	LCS Rec (%)	MDC
ARS1-B17-00998-01	LCS	ENRICHED H-3	42.124	6.547	36.365	115.8	3.658

Duplicate RER/DER/RPD			Analysis Date	06/16/17 23:24	Analysis Technician	ECAMP	
Analyte	Results LCS	CSU LCS (1s)	Results LCSD	CSU LCSD (1s)	RER	DER	RPD
ENRICHED H-3	42.124	6.547	35.143	5.448	0.297	0.418	18.1

Method Blank			Analysis Date	06/17/17 04:36	Analysis Technician	ECAMP	
Analysis Batch Sample ID	QC Type	Analyte	Results	CSU (1s)	MDC	Qual	
ARS1-B17-00998-03	MBL	ENRICHED H-3	-2.076	1.060	3.584	U	

Project Manager Review

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American Radiation		Chain of Custody/Analysis Request										COC/Lab Request #:				
Baton Rouge LA												2017-1412 Page 1 of 1				
Client Contact:		Lab Agreement #:		Site Name: Los Alamos National Laboratory												
		Project Number: ADEP														
		Analysis Turnaround Time:														
		24 Hour - <input type="checkbox"/> Other - <input type="checkbox"/>														
		7 Days - <input type="checkbox"/>														
		14 Days - <input type="checkbox"/>														
		21 Days - <input type="checkbox"/>														
		28 Days - <input checked="" type="checkbox"/> <i>Holidays</i>														
Field Sample ID	Sample Date	Sample Time	Sample Matrix	WSP-LL-H-3										Rad Screening Info:	Lab Reporting Limit Type: Sample Quantitation Limit	
CAPA-17-130711	Apr 17 2017	12:13	W	1												
CAMO-17-130584	Apr 13 2017	12:42	W	1												
CAMO-17-130585	Apr 12 2017	14:41	W	1												
CAMO-17-130586	Apr 19 2017	11:26	W	1												
CAMO-17-130597	Apr 19 2017	11:26	W	1												
CAPA-17-130712	Apr 14 2017	11:09	W	1												
CAPA-17-130713	Apr 17 2017	13:19	W	1												
CAPA-17-130714	Apr 19 2017	14:01	W	1												
CAPA-17-130715	Apr 17 2017	11:09	W	1												
CAPA-17-130716	Apr 14 2017	10:57	W	1												
CAPA-17-130760	Apr 14 2017	10:57	W	1												
CAPA-17-130717	Apr 18 2017	13:25	W	1												
CAPA-17-130718	Apr 18 2017	15:00	W	1												
CAMO-17-130587	Apr 19 2017	12:18	W	1												
CAMO-17-130588	Apr 19 2017	13:37	W	1												
CAMO-17-130589	Apr 18 2017	11:47	W	1												

Special Instructions:

Relinquished by: *[Signature]*

Relinquished by: *[Signature]*

Relinquished by: *[Signature]*

Print Name: *[Signature]*

Print Name: *[Signature]*

Print Name: *[Signature]*

Date/Time: *4/21/17*

Date/Time: *4/21/17 3:10*

Date/Time: *4/21/17*

Received by: *[Signature]*

Received by: *[Signature]*

Received by: *[Signature]*

Print Name: *[Signature]*

Print Name: *[Signature]*

Print Name: *[Signature]*

Date/Time: *4/21/17*

Date/Time: *4/21/17*

Date/Time: *4/21/17*