Ref 16 p. 01

START, Denver, CO
EPA Contract Number: EP-W-05-050

CHAIN OF CUSTODY RECORD
Site #: 085M
Contact Name: Andrew Longworth
Contact Phone: 720 810 0780

No: 085M-10/28/10-0002
Cooler #: 1
Lab: ESAT EPA Region 8 Lab
Lab Phone: 3033127700

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	UASW001	UASW001	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW002	UASW002	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW003	A68	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW004	UASW004	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW005	CC17	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW006	UASW006	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW007	CC18	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW008	UASW008	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW009	UASW009	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW010	UASW010	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW013	UASW013	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW029	A72	metals - 200.8 / 200.7	Surface Water	10/25/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW032	UASW032	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	[illegible]	HNO3 pH<2	N
	UASW033	M34	metals - 200.8 / 200.7	Surface Water	10/2[illegible]			HNO3 pH<2	N
	UASW034	UASW034	metals - 200.8 / 200.7	Surface Water	10/2[illegible]			NO3 pH<2	N
	UASW035	CC48	metals - 200.8 / 200.7	Surface Water	10/26			NO3 pH<2	N
	UASW036	UASW036	metals - 200.8 / 200.7	Surface Water	10/26/			O3 pH<2	N
	UASW037	UASW037	metals - 200.8 / 200.7	Surface Water	10/26/			O3 pH<2	N
	UASW039	UASW039	metals - 200.8 / 200.7	Surface Water	10/26/2			O3 pH<2	N

1260039

Special Instructions: TDF = DG-215
Turn Around Time = 30 days

[illegible] FROM
[illegible] OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Megan Adamczyk	10/28/10	[illegible]	10/29/10	1230						

Ref 16 p. 01

START, Denver, CO
EPA Contract Number: EP-W-05-050

CHAIN OF CUSTODY RECORD
Site #: 085M
Contact Name: Andrew Longworth
Contact Phone: 720 810 0780

No: 085M-10/28/10-0002
Cooler #: 1
Lab: ESAT EPA Region 8 Lab
Lab Phone: 3033127700

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	UASW001	UASW001	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW002	UASW002	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW003	A68	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW004	UASW004	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW005	CC17	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW006	UASW006	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW007	CC18	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW008	UASW008	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW009	UASW009	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW010	UASW010	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW013	UASW013	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW029	A72	metals - 200.8 / 200.7	Surface Water	10/25/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW032	UASW032	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW033	M34	metals - 200.8 / 200.7	Surface Water	10/25/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW034	UASW034	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW035	CC48	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW036	UASW036	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW037	UASW037	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW039	UASW039	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N

Special Instructions: TDF = DG-215
Turn Around Time = 30 days

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Megan Adamczyk	10/28/10		10/28/10	1230						

Ref. 16 p.02

START, Denver, CO
EPA Contract Number: EP-W-05-050

CHAIN OF CUSTODY RECORD
Site #: 085M
Contact Name: Andrew Longworth
Contact Phone: 720 810 0780

No: 085M-10/28/10-0002
Cooler #: 1
Lab: ESAT EPA Region 8 Lab
Lab Phone: 3033127700

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
	UASW040	UASW040	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW041	UASW041	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW042	UASW042	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW043	UASW043	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW044	UASW044	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW045	UASW045	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW046	UASW046	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW047	UASW047	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW049	UASW049	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW050	UASW050	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW054	UASW054	metals - 200.8 / 200.7	Surface Water	10/26/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW056	UASW056	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
	UASW058	UASW058	metals - 200.8 / 200.7	Surface Water	10/27/2010	1	500 mL Poly	HNO3 pH<2	N
→	UASW097	CC48	metals - 200.8 / 200.7	Surface Water	10/26/2010	2	500 mL Poly	HNO3 pH<2	Y
	UASW098	CC17	metals - 200.8 / 200.7	Surface Water	10/27/2010	2	500 mL Poly	HNO3 pH<2	Y

Special Instructions: TDF = DG-215
Turn Around Time = 30 days

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Megan Adamczyk [illegible]	10/28/10	[illegible]	10/[illegible]	12:21						

Ref. 16 P. 03

CHAIN OF CUSTODY RECORD

START, Denver, CO
EPA Contract Number: EP-W-05-050

Site #: 085M
Contact Name: Andrew Longworth
Contact Phone: 720.810.0780

No: 085M-11/02/10-0004
Cooler #:
Lab: ESAT EPA Region 8 Lab
Lab Phone: 3033127700

Lab #	CLP Sample #	Sample #	Location	Analyses	Matrix		Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
		UAAD001	CC19	Total Metals	Mine Water		10/27/2010	10:05	1	500 mL Poly	HNO3 pH<2	N
		UAAD002	CC06	Total Metals	Mine Water		10/28/2010	13:39	1	500 mL Poly	HNO3 pH<2	N
		UAAD004	CC02D	Metals - Total	Mine Water		10/29/2010	15:00	1	500 mL Poly	HNO3 pH<2	N
		UASW011	UASW011	metals - 200.7	Surface Water		10/28/2010	14:10	1	500 mL Poly	HNO3 pH<2	N
		UASW012	UASW012	metals - 200.7	Surface Water		10/28/2010	14:25	1	500 mL Poly	HNO3 pH<2	N
		UASW014	UASW014	metals - 200.7	Surface Water		10/28/2010	09:45	1	500 mL Poly	HNO3 pH<2	N
		UASW015	CC03D	metals - 200.7	Surface Water		10/28/2010	10:00	1	500 mL Poly	HNO3 pH<2	N
		UASW016	CCOPP-12	metals - 200.7	Surface Water		10/28/2010	10:59	1	500 mL Poly	HNO3 pH<2	N
		UASW017	UASW017	Metals	Surface Water		10/29/2010	11:55	1	500 mL Poly	HNO3 pH<2	N
		UASW018	UASW018	Metals	Surface Water		10/29/2010	13:30	1	500 mL Poly	HNO3 pH<2	N
		UASW019	UASW019	Metals	Surface Water		10/29/2010	12:49	1	500 mL Poly	HNO3 pH<2	N
		UASW020	UASW020	Metals	Surface Water		10/29/2010	13:50	1	500 mL Poly	HNO3 pH<2	N
		UASW022	CC02A	Metals	Surface Water		10/31/2010	11:19	1	500 mL Poly	HNO3 pH<2	N
		UASW023	CC01T	Metals	Surface Water		10/31/2010	11:50	1	500 mL Poly	HNO3 pH<2	N
		UASW024	CC01S	Metals	Surface Water		10/31/2010	12:04	1	500 mL Poly	HNO3 pH<2	N
		UASW030	CC01F	Metals	Surface Water		10/31/2010	13:00	1	500 mL Poly	HNO3 pH<2	N
		UASW059	UASW059	Metals	Surface Water		10/31/2010	12:40	1	500 mL Poly	HNO3 pH<2	N
		UASW099	UASW019	Metals	Surface Water		10/29/2010	12:49	2	500 mL Poly	HNO3 pH<2	Y

Special Instructions: TDF: DG-215
TAT: 30 Days

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Megan Adamczyk	11/3/10	N. Phelpot	11/3/10	11:30						
	N. Phelpot	11/3/10	ABADelle	11/3/10	1230						

Ref. 16 P. 04

START, Denver, CO
EPA Contract Number: EP-W-05-050

CHAIN OF CUSTODY RECORD
Site #: 085M
Contact Name: Andrew Longworth
Contact Phone: 720.810.0780

No: 085M-11/02/10-0004
Cooler #:
Lab: ESAT EPA Region 8 Lab
Lab Phone: 3033127700

Lab #	CLP Sample #	Sample #	Location	Analyses	Matrix		Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
		UAAD001	CC19	Dissolved Metals	Mine Water		10/27/2010	10:05	1	500 mL Poly	HNO3 pH<2	N
		UAAD002	CC06	Dissolved Metals	Mine Water		10/28/2010	13:39	1	500 mL Poly	HNO3 pH<2	N
		UAAD003	CC03C	Dissolved Metals	Mine Water		10/28/2010	10:30	1	500 mL Poly	HNO3 pH<2	N
		UAAD003	CC03C	Total Metals	Mine Water		10/28/2010	10:30	1	500 mL Poly	HNO3 pH<2	N
		UAAD004	CC02D	Metals - Dissolved	Mine Water		10/29/2010	15:00	1	500 mL Poly	HNO3 pH<2	N
		UASW021	UASW021	Metals	Surface Water		10/31/2010	11:10	1	500 mL Poly	HNO3 pH<2	N

Special Instructions: TDF: DG-215
TAT: 30 Days

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Oregon Adamczyk	11/3/10	N. Pilot	11/3/10	8:30						
	N. Pilot	11/3/10	[illegible]	11/3/10	12:30						

ESAT Technical Direction Form

Contract No. EPW06033
EPA Region 8

C101101

Site ID: ~~085F~~ 085M
TDF ID: DG-216

Date Issued: 10/26/2010
Date Updated:

Date Closed By:

Name: Upper Animas Mining District Samples

Details: The Contractor shall analyze approximately 70 water samples collected from the Upper Animas Mining District Superfund site beginning approximately 10/25/10. The water samples will be analyzed for TR metals by 200.7 and 200.8 as indicated in the analytical information section below. The samples will be collected by START and delivered to the ESAT R8 Laboratory on approximately 10/29/10. Samples collection and delivery dates are approximate and may change due to site conditions and other factors.

Email data package and EDD to the TOPO and Kent Alexander at UOS START (Kent_Alexander@urscorp.com).

Analytical

MATRIX

☑ Water ☐ Soils ☐ Vegetation ☐ Biota

WET CHEM

☐ TSS ☐ TDS ☐ DOC ☐ Alk ☐ Chloride ☐ Sulfate ☐ Fluoride ☐ Nitrate ☐ Nitrite
Other

METALS

☐ Dissolved ☑ Total Recoverable ☐ Total ☑ Hardness (Calc)

200.7: ☐ Ag ☑ Al ☐ As ☐ Ba ☐ Be ☐ B ☑ Ca ☐ Cd ☐ Co ☐ Cr ☐ Cu ☑ Fe ☑ K ☑ Mg
☐ Mn ☐ Mo ☑ Na ☐ Ni ☐ Pb ☐ Sb ☐ Se ☐ Sr ☐ Ti ☐ Tl ☐ V ☐ Zn ☐ SiO2

200.8: ☑ Ag ☐ Al ☑ As ☑ Ba ☑ Be ☑ Cd ☑ Co ☑ Cr ☑ Cu ☑ Mn ☑ Mo ☑ Ni ☑ Pb ☑ Sb
☑ Se ☐ Th ☑ Tl ☐ U ☑ V ☑ Zn
200.7

7470/7471/747 ☐ Hg
200.7

FIBERS

☐ PLM ☐ TEM

Deliverable

ID	*Description*	*Due Date*	*Submission Date*
1	Provide final deliverable package to Task Monitor no later than 30 days after delivery of samples.	11/30/2010	

Page 1 of 5