AUXIER & ASSOCIATES, INC.

PAP-KAN

1428

STANDARD LEVEL IV REPORT OF ANALYSIS

WORK ORDER #15-09123-OR

September 30, 2015

EBERLINE ANALYTICAL/OAK RIDGE LABORATORY OAK RIDGE, TN

TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
I	Chain of Custody & pH Check Sheet	0004
n	Sample Acknowledgement	0012
m	Case Narrative	0015
IV	Analytical Results Summary	0018
\mathbf{v}	Laboratory Technician's Notes	0020
VI	Analytical Data (Total Dissolved Solids)	0025
VII	Analytical Data (Total Suspended Solids)	0028
	Last Page Number	0030



STANDARD OPERATING PROCEDURE

Sample Receiving

MP-001, Rev. 13 Effective: 10/31/13 Page 14 of 15

Eberline Services – Oak Ridge Laboratory LABORATORY DATA SUPPORT CHECKLIST

MP-001-3

Date for Partial	Initials	Date	Initials	Checklist Items	5
		9-22-15	5EB	Sample Log-In	
		09123/		Data Compilatio	n
		9-23-15		First Technical I	Data Review
		9/23/15	My	Second Technic	al Data Review
		09/29/	15 ENT	Data Entry/Elect	tronic Deliverable
		09(291	15 eut	Case Narrative	
		9/29/15	KBS	Electronic Delive	
		9/30/15	ust.		ed within Holding Time
		१ ।	MOA	QA/QC Review	
		69/a3/k	5 ELT	Client in Posses Electronic or Ha	
			J.	Invoiced by Labo	
Technical/Clerical	Corrections	s, Signature	es Needed, Pr	oblems, Etc	Date/Initials
	E S. S.	The same of the sa			8 /
ckage approved by:	Laborato	ory Manager		Da	130(16) te

SECTION I
CHAIN OF CUSTODY
&
pH CHECK SHEET

biowanie de la companya de la compa
O
\bigcirc
$\boldsymbol{\mathcal{C}}$
(D)
N.
- W. C.
to-Manth
920
\bigcirc
spend 4 A
<u>U)</u>
O D
Section 1
Edward .
O
<i>(</i>
No.
S STORES
- Committee
CAN PROPERTY.

Eberline Services

1604

01

EBERLINE

EBERLINE Lab Sample ID (to be completed by lab) Sample Receipt SEP 2 2 2015 Chi este filter as directed Total # Containers Received? Andre 755/17 Analyse BATGB contact certic Received Containers Intact? Contact cealing Comments, Special Instructions, etc. Purchase Order #: COC Seals Present? Ø Sample Custodian Remarks (Completed By Laboratory): COC Seals Intact? Proceed 601 Scarboro Road Coak Ridge, TN 37830 (855) 481-0683 Phone • (865) 483-4621 Fax Turnaround Routine 1 Week 24 Hour Other QA/QC Level Level Level Other 6.30pm 1000 Time: 8-22-13 Number of Containers Express inater シュナイ Sample Matrix 901/15/14:42 water 9/21/5/5/5/5/5/5/ 224Z Shipment Method: Federal 9/18/15 8.42 Sampler (Print Name): Sampler (Print Name): Sample Time Laboratory Receiving: (Signature) Project Number: Airbill Number: 3/14/16 31/81/6 Sample Date Received by: Received by: Send Report To: Cecilia Green/Auxier & Assoc. 9821 Cogdill Road, Suite 1 **%**C I Knoxville, TN 37932 Field Sample ID 032-M 7-280-2 032-1 865-675-3677 gnature Relinquished by: (Signature) Project Name: PAP/KAN 8 Phone: 865-675-3669 CSS-Address Fax:

Temperature?

Chain of Custody Record

1604 404

2

Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone • (865) 483-4621 Fax

EBERLINE SERVICES

		VE 1 (701 (000) - 0100 (000) (000)	
Project Name: PAP/KAN	Project Number: 142X		.50
Send Report To: Cecilia Green/Auxier & Assoc.	Sampler (Print Name):	1 1577	Page of
Address:	Sampler (Print Name):		FP 9 0 2014
9821 Cogdill Road, Suite 1	Shipment Method: Federal Express	Sheppen a sheppe	2
Knoxville, TN 37932	Airbiil Number;	TO STATE OF	
Phone; 865-675-3669	Laboratory Receiving:	7 5 5 0	a l
Fax: 865-675-3677	and the state of t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Field Sample ID	Sample Sample Sample Ni Date Time Matrix Co	Number of Comments, Special Containers Comments, Special Containers	pecial Lab Sample ID etc. (to be completed by lab)
b 7-4110-08071	1	XXXXX	A
12-040-140-L 10	9/21/15/16:51 14.10 fer	- XXXXX - Contact cealin	O
140-140-N	9/21/15/16:21 Water	/ XXXXX	dieta
		Avolve P	A - 68
		U	
			S. Partick
The state of the s			
	To provide the second s		
	H		
Helinguished by (Aggarder)	Received by: (Signature)	Date: Sample Custodian Remarks (Completed By Laboratory)	
2		15 (236pm ONOC Level Turnaround	Sample Receipt
Helitiquished/by: (Signature)	Received by: (Signature)	Time:	Received?
	Lamos Moulle	6.32-15 16.00 Level II \(\alpha\) 24 Hour \(\alpha\) COC Seals Present?	Ċ
Helinquished by: (Signature)	eceived by: Bignature	III C 1 Week C	rs Intact?
The state of the s		Other Other Temperature?	

3
g
U
O

EBERLINE SERVICES Eberline Services
601 Scarboro Road
Oak Ridge, TN 37830
(885) 481-0683 Phone • (865) 483-4621 Fax 1604

1

			(coo) (X	XPJ 1705-004 (000) . aligid pono-int (coo)	55-4521 Fax	
Project Name; PAP/KAN	Project Number: 1억구용					
Send Report To: Cecilia Green/Auxier & Assoc.	Sampler (Print Name):			10/10/10/		Page of
Address:	Sampler (Print Name):		<u>/</u> / / / / / / / / / / / / / / / / / /		REC'D/ SEP 2 2 2015	
9821 Cogdill Road, Suite 1	Shipment Method: Federal	Express	DY DY POOL	· · · ·		2
Knoxville, TN 37932						
Phone; 865-675-3669	Laboratory Receiving:		7 5 5	1 / 1/8/1	/ Purchase	
Fax: 865-675-3677			150			
ole ID	Sample Sample Sample Date Time Matrix	ole Number of ix Containers	10/0/10/10/10/F		Comments, Special	Lab Sample ID
D.+Falloo1 12	14:50 Wa	ζ.	XXXXX		A	to a composed by (ab)
KC-279 13	9/21/15 14:49 water	-6	XXXXXXX		Contact ceallia	The state of the s
KC85-032-0 14	9/2/15 12:53 water	-	× × × × ×		ter as directed	
KC 86 - 047 - 0 15	9/21/15 15:05 worker	-	メメメメメ		Avolute 6 ATGR	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					Contact Cerific	
					Promeet an Alleston	
					3	
	The state of the s					
	and the second s					
	-			-7		
The state of the s						
1000						
				*		
						April 1
Relinquished by: (Signature) Rec	Received by: (Signature)	Daje:	11 1	Sample Custodian Remarks (Completed By Laboratory);	eted By Laboratory):	
	あめたメ	<u> </u>	14/15 6 - 30/11/19 GNOC Level	el Turnaround	Sample Receipt	sipt
Refinduished by: (Signature) Rec	Received by: (Signature)	Date:	,		Total # Containers Received?	
	(1/2) 2/15 may	8-22-19	Sol	Routine	COC Seals Present?	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:	24 Hour	COC Seals Intact?	
7			Ξ	Other	Received Containers Intact?	
				-	remperature?	

2
STATE OF THE PARTY
0
Õ
a)
Œ
Department
STATES OF THE PARTY OF THE PART
\bigcirc
She was seen
U)
CONTROL OF THE PARTY OF THE PAR
()
TO
\bigcirc
e===
Property
H HANNAH H
$\overline{\mathcal{Q}}$
STATE OF THE PERSONS

Eberline Services 601 Scarborn Road 601 Scarborn Road 601 Scarborn Road 604 865 (865) 481-0683 Phone - (865) 483-4621 Fax

01



Per Containers of Number of hix K K K K K K K K K K K K K K K K K K K	Project Name; PAP/KAN	Project Number: 1478		1 10/69/			
Section Sample Finite Names Sample Finite Names Sample Samp	Send Report To: Cecilia Green/Auxier & Asso	Sampler (Print Name):			\ \(\alpha\)		0
1982 Cogdill Road, Suite 1 19 Suitane Marker Ederal Express 1993 1994 1995	Address:	Sampler (Print Name):		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
Common C	1	Shipment Method: Federal	xpress	10 10 10 10 10 10 10 10 10 10 10 10 10 1	<u></u>	12/- 69 123	·
C C C C C C C C C C							
Field Surger Field Surger Surger Surger Name Name Surger Name Name Surger Name	Phone; 865-675-3669	Laboratory Receiving:		10/0/0/0/0	/ / /	/ Purchase	-
Flad Sumple Date Sumple	1 1			10 10 10 10 10 10 10 10 10 10 10 10 10 1			
CG44-199-L 199-0 1918-0	Field Sample ID	Sample Sample Date Time				-	e ID 1 bv (ab)
KC 94-199-L 13 9/13/L 10.44 Water 1 X X X X X X X X X X X X X X X X X X	n-661	25:6 51/81/6		XXXXX		755-TB	
	Ţ	4/18/15 10:4H	-	$ X \times X \times X $		contact ceall a	
	7-608-	9/18/15 16:42	7	XXXXXX		Titel as directed	
	- 209-U	3/19/1/2 11:15	_	X		Analyse 6 ATGB	
Proceed as Proceed as Proceed as Proceed as	-185-U	9/18/15 12:50	-t /	XXX		contoct cerific	
Middled by, (Signature) Received containers Other Invest III Other Investment		-				V	
May Mark Mark Mark Mark Mark Mark Mark Mark						?	
High graph by (Signature) Received by (Signat							
My Market by: (Signature) Received containers Time: Time: Tweet Turnaround Total # Containers COC Seals Present Tweet Tweet Temperature? Temperature?						and Automotive and	
Trius Mature) Received by: (Signature) Rec							
Figure Figure Faceived by: (Signature) Faceived Container					- And		
Inquished by: (Signature) Received by: (Sig							
Integrated by: (Signature) Received container COC Seals Present COC Seals Present COC Seals Integrating COC Seals Integrating COC Seals Integrature? COC Seals Integrating COC Seals Integrated COC S							
Inquished by: (Signature) Received containers					***		***************************************
Industried by: (Signature) Received Container of time: Level III							
Inquished by: (Signature) Received Containers Total # Contai		Programme Annia de la companya de la					
Paceived by: (Signature) Received by: (Signature) Pate: Time: Sample Custodian Remarks (Completed By Laboratory) Paceived by: (Signature) Paceived Containers							
MW MWW Per Properties Formation of the Properties Formatio	ukked by: (Signature)	Received by: (Signature)	Date:	1 1	ian Remarks (Comp	eted By Laboratory);	
Inquished by: (Signature) Received by: (Signature) Other □ Other □	man Manny	るな	200		Turnaround	Sample Receipt	
Peceived by: (Level III Cother	Inquished by: (Signature)	Received by: (Signature)	Date:			Total # Containers Received?	
Heceived by: (() grature) Date: Time: Level III 1 Week		1 de 1 de 1 (1)	2,2,3	Level		COC Seals Present?	
Other Other		التقديب	Date:	Time:		COC Seals Intact?	
	7			Level		Received Containers Intact?	
					Omer	Temperature?	



Internal Chain of Custody

Work Order #	15-09123
Lab Deadline	9/24/2015
Analysis	TDS - Level 4
Sample Matrix	Water

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	34	U1,1
	05	37	U1.1
	06	32	U1.1
	07	35	U1.1
	08	31	U1.1
	09	35	U1.1
	10	36	U1.1
	11	34	U1.1
	12	34	U1.1
***************************************	13	36	U1.1
	14	35	U1.1
	15	33	U1.1
	16	37	U1,1
	17	31	U1.1
	. 18	31	U1.1
	19	35	U1.1
	20	32	U1.1

		Locati	on (circle o	ne)		Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Mh	23 SERIS
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Mu 2	275EDIS 275EDIS 1602
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	A Company of the Comp	and the state of an extension of the state o
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		artegger (de promote p
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	N. Y. Allahama Van	Valley (1990) 1 - 1990 (1990)
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		The second secon
Received by	Sample Storage	Rough Prep	Ргер	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		



Internal Chain of Custody

Work Order #	15-09123
Lab Deadline	9/24/2015
Analysis	TSS - Level 4
Sample Matrix	Water

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
	04	34	U1.1
	05	37	U1.1
	06	32	U1.1
	07	35	U1.1
	08	31	U1.1
	09	35	U1.1
	10	36	U1.1
	11	34	U1.1
	12	34	U1.1
	13	36	U1.1
	14	35	U1.1
	15	33	U1.1
	16	37	U1.1
	17	31	U1.1
	18	31	U1,1
	19	35	U1.1
	20	32	U1.1

		Locati	on (circle o	one)		Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Mr	235EDUS
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	14	235EPUS 275EPUS 1800
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		•
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	PPINE PRINCE STATEMENT OF THE STATEMENT	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	A promise programme and the state of the sta	- Hadad A A Angada a ana ang ang mga ang ang ang ang ang ang ang ang ang a
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	-	
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Table 1 Andrew Advisor Andrew	
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	**************************************	Philade Philad



Sample Receiving Report (Volumes, pH, & CPM)

Internal Work Order
15-09123
Received By
JBAILEY

FR	ClientID	# 8tls	Comments	Matrix	Storage	Rec Vol Ttl	СРМ Мах
01	LCS	0		WA	Ų1.1		
02	BLANK	0		WA	Ų1.1		
03	DUP	0		WA	U1.1		
04	KC85-035-L	1		ŴΑ	U1.1	3.76	34
		.	Container Number	pH Orig	pH Final	Volume (L)	CPM
	· · · ·		1	. 7	7	3.7600	34
05	KC92-185-L	1		WA	U1.1	3.76	37
	J		Container Number	pH Orig	pH Final	Volume (L)	CPM
	WOOD OOF II		1	7	7	3.7600	37
06	KC85-035-U	1		WA	U1.1	3.76	32
	/		Container Number	pH Orig	pH Final	Volume (L) 3,7600	CPM 32
07	KC85-032-L	1 1		WA	U1.1	3.76	35
"	RC03-032-L		Container Number	pH Orig	pH Final	Volume (L)	CPM
	V		1	7 7	7	3.7600	35
08	KC85-032-M ,	1		WA	U1.1	3.76	31
<u> </u>	./	I	Container Number	pH Orig	pH Final	Volume (L)	O CPM
<u> </u>	v		1	7	. 7	3.7600	31
09	KC86-047-L	11		WA	U1.1	3.76	35
l	Barrier .		Container Number	pH Orig	pH Final	Volume (L)	CPM
<u> </u>	16000 1 10 1	 	1	7	7	3.7600	35
10	KC90-140-L	1 1		WA	U1.1	3.76	36
	V		Container Number	pH Orig 7	pH Final 7	Volume (L) 3.7600	CPM
11	KC90-140-U /	1 1		WA	U1.1	3.7600	36 34
 ^ - 	RC90-140-0		Container Number	pH Orig	DH Final	Volume (L)	CPM
			1	7	7	3,7600	34
12	OUTFALL001 V	1 1		WA	U1.1	3.76	34
		<u>-</u>	Container Number	pH Orig	pH Final	Volume (L)	СРМ
			1	7	7	3.7600	34
13	KC-279 √	1		WA	U1.1	3.76	36
			Container Number	pH Orig	pH Final	Volume (L)	CPM
 	VCCE COO II		1		7	3.7600	36
14	KC85-032-U √	1 1		WA	U1.1	3.76	35
			Container Number	pH Orig	pH Final 7	Volume (L) 3.7600	CPM 35
15	KC86-047-U V	1		WA	U1.1	3,76	33
==-			Container Number	pH Orig	pH Final	Volume (L)	CPM
<u> </u>			1	7	7	3.7600	33
16	KC94-199-U	1		WA	Ų1.1	3.76	37
	1 1 1		Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	37
17	KC94-199-L	1		WA	U1.1	3.76	31
1	1 1 1		Container Number	pH Orig	pH Final	Volume (L)	CPM
18	KC97-209-L	1	1			3,7600	31
1-0	/ x /		Container Number	WA pH Orig	U1.1 pH Final	3.76 Volume (L)	31 CPM
I	* * *		Container Number	pn Orig 7	pri rinai 7	3.7600	31
19	KC97-209-U	1		WA	U1.1	3.76	35
	7 7		Container Number	pH Orig	pH Final	Volume (L)	CPM
	·		1	7	7	3,7600	35
20	KC-185-U	1		WA	U1.1	3.76	32
I	1 1		Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	32

12/09/22/10

Received by:

Date: <u>9-22-15</u>

MP-001, Rev 5 Effective: 11/22/02

SECTION II SAMPLE ACKNOWLEDGEMENT

: GAG13



Copy No.

STANDARD OPERATING PROCEDURE

MP-001, Rev. 13 Effective: 10/31/13 Page 13 of 15

Sample Receiving

Eberline Services - Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST MP-001-2

MPLE MATRIX/MATRICES:	(CIRC	LE ONE O	R BOTH)	
	AQUE	ous) N	NON-AQUE	SUC
ERE SAMPLES:	(CIRC	LE EITHER	R YES, NO, (OR N
Received in good condition?	@	l N		
If aqueous, properly preserved	0	N	N/A	
ERE CHAIN OF CUSTODY SEALS:			······································	
Present on outside of package?	Ø	N		
Unbroken on outside of package?	0	N		
Present on samples?	8	N		
Unbroken on samples?	(N		
Was chain of custody present upon sample receipt? THE RESPONSE TO ANY OF THE ABOVE IS NO , A DISSR) HAS BEEN ISSUED.			ECEIPT REF	PORT
Was chain of custody present upon sample receipt? THE RESPONSE TO ANY OF THE ABOVE IS NO , A DIS SR) HAS BEEN ISSUED.		AMPLE RE	ECEIPT REF	PORT
Was chain of custody present upon sample receipt? THE RESPONSE TO ANY OF THE ABOVE IS NO, A DIS SR) HAS BEEN ISSUED. EMARKS:		AMPLE RE		PORT
Was chain of custody present upon sample receipt? THE RESPONSE TO ANY OF THE ABOVE IS NO , A DIS SR) HAS BEEN ISSUED.		AMPLE RE		PORT
Was chain of custody present upon sample receipt? THE RESPONSE TO ANY OF THE ABOVE IS NO, A DISSEN HAS BEEN ISSUED. EMARKS: GNATURE: Ama Jalan		AMPLE RE		PORT

Radiochemistry Services

SECTION III

CASE NARRATIVE



EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD
OAK RIDGE, TENNESSEE 37830
PHONE (865) 481-0683
FAX (865) 483-4621

EBS-OR-39725

September 30, 2015

Cecilia Greene USA ENV LP/Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37932

CASE NARRATIVE Work Order# 15-09123-OR

SAMPLE RECEIPT

This work order contains seventeen water samples received 09/22/2015. These samples were analyzed for Total Dissolved Solids (TDS) and Total Suspended Solids (TSS).

<u>CLIENT ID</u>	<u>LAB ID</u>	<u>CLIENT ID</u>	LAB ID
KC85-035-L	15-09123-04	KC-279	15-09123-13
KC92-185-L	15-09123-05	KC85-032-U	15-09123-14
KC85-035-U	15-09123-06	KC86-047-U	15-09123-15
KC85-032-L	15-09123-07	KC94-199-U	15-09123-16
KC85-032-M KC86-047-L	15-09123-08 15-09123-09	KC94-199-L KC97-209-L	15-09123-17 15-09123-18
KC90-140-L	15-09123-09	KC97-209-U	15-09123-18
KC90-140-U KC90-140-U	15-09123-10	KC-185-U	15-09123-20
OUTFALL001	15-09123-11	100 100 0	15-07125-20

ANALYTICAL METHODS

Total Dissolved Solids was analyzed using Standard Methods 2540C. Total Suspended Solids was analyzed using Standard Methods 2540D.

ANALYTICAL RESULTS

Combined Standard Uncertainty is reported at 2-sigma value.

Minimum Detectable Activity (MDA) values for data represented in this report are sample-specific. MDA measurements are determined based on factors and conditions including instrument settings, aliquot size and matrix type.

ANALYTICAL RESULTS CONTINUED

TOTAL DISSOLVED SOLIDS (TDS)

A volumetric aliquot of each sample was filtered through a tared $0.45\mu m$ filter media into a tared 250ml beaker. Samples were then dried on a hot plate and were allowed to cool. The TDS content was determined by reweighing tared beakers.

Samples demonstrated Total Dissolved Solids content that ranged from 262.0 to 3,800.0 mg/L.

TOTAL SUSPENDED SOLIDS (TSS)

A volumetric aliquot of each sample was filtered through tared 0.45µm filter media. Filter media was then dried and reweighed for determination of TSS content.

Samples demonstrated Total Suspended Solids content that ranged from 3.0 to 286.0 mg/L.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall Laboratory Manager

Date: 9/30/2015

Eberline Analytical wants and encourages your feedback regarding our performance providing radioanalytical services. Please visit http://www.eberlineservices.com/client.htm to provide us with feedback on our services.

SECTION IV ANALYTICAL RESULTS SUMMARY

				R	Report To:					Work Order Details:	Details:			
Ebel	-line	Eberline Analytical	Cecilia	Cecilia Greene				SDG:	15-	15-09123				
) } i			Auxier	Auxier & Assoc	ciates, Inc.		enveloper of V & & & & & & & & & & & & & & & & & &	Purchase Order:	PAP	PAP-KAN	they depth to A vaccon secondarian	e formation and the formation of the for	onesono e e como con desendo en esta de esta d	aria areana mareanena areanenanen era
Fina	l Rep	Final Report of Analysis	9821 C	9821 Cogdill Road, Suite	ad, Suite	-	e observations of the control of the	Analysis Category:	EN	ENVIRONMENTA	ENTAL	Ad haddeddinamann amannang (opiop e V franklin odnolamoto o mondo.
			Knoxville, TN		37830			Sample Matrix:	W			The total the total control of		room park the 3 person december 2004 decisions of
Lab D	Sample Type	Client	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	5	CSU	MDA	λ	Report
15-09123-04	TRG	KC85-035-L	09/17/15 16:32	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1,11E+03				Who wheelson	mg/l
15-09123-05	TRG	KC92-185-L	09/18/15 13:39	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	5.79E+02					mg/l
15-09123-06	TRG	KC85-035-U	09/18/15 08:42	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	7.18E+02					mg/l
15-09123-07	TRG	KC85-032-L	09/21/15 14:42	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	8.41E+02	eronomonomony orangement page of the property				l/gm
15-09123-08	TRG	KC85-032-M	09/21/15 13:25	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.23E+03	We're from war transcenses		-		mg/l
15-09123-09	TRG	KC86-047-L	09/21/15 15:40	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	3.28E+02		CONTRACTOR ACCOUNTS AND ACCOUNT			mg/l
15-09123-10	TRG	KC90-140-L	09/21/15 16:51	9/22/2015	9/23/2015	15-09123	SOT	SM 2540C	3.44E+02		CONTRACTOR AND A CANADA PROPERTY OF THE CONTRACTOR AND ADDRESS OF THE CANADA PARTY OF		The state of the s	mg/l
15-09123-11	TRG	KC90-140-U	09/21/15 16:21	9/22/2015	9/23/2015	15-09123	SOT	SM 2540C	2.62E+02			WAS AND A CONTROL OF THE PARTY		l/gm
15-09123-12	TRG	OUTFALL001	09/21/15 14:56	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	9.10E+02	A V And and the American and the distinct concessions.	The state of the s			l/gm
15-09123-13	TRG	KC-279	09/21/15 14:49	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.82E+03		To the second se			l/gm
15-09123-14	TRG	KC85-032-U	09/21/15 12:53	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	2.94E+03		***************************************			l/gm
15-09123-15	TRG	KC86-047-U	09/21/15 15:05	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	5.43E+02					l/gm
15-09123-16	TRG	KC94-199-U	09/18/15 09:56	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.67E+03	**************************************				mg/l
15-09123-17	TRG	KC94-199-L	09/18/15 10:44	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	2.23E+03	A set or and common without the set of the s				mg/l
15-09123-18	TRG	KC97-209-L	09/18/15 16:42	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.79E+03			****		mg/l
15-09123-19	TRG	KC97-209-U	09/19/15 11:15	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	3.80E+03					l/gm
15-09123-20	TRG	KC-185-U	09/18/15 12:50	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	3.12E+02					mg/[
en benedisabilananan on anno o	Contraction of the Contraction o		movement of productions of the state of the	American American and Community and Community	- Andreas - Andr									
15-09123-04	TRG	KC85-035-L	09/17/15 16:32	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	3.00E+00					l/gm
15-09123-05	TRG	KC92-185-L	09/18/15 13:39	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	9.70E+01					l/gm
15-09123-06	TRG	KC85-035-U	09/18/15 08:42	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.10E+01					mg/l
15-09123-07	TRG	KC85-032-L	09/21/15 14:42	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	5.00E+00					l/gm
15-09123-08	TRG	KC85-032-M	09/21/15 13:25	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.30E+01					l/gm
15-09123-09	TRG	KC86-047-L	09/21/15 15:40	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.16E+02					l/gm
15-09123-10	TRG	KC90-140-L	09/21/15 16:51	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	4.90E+01					l/gm
15-09123-11	TRG	KC90-140-U	09/21/15 16:21	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	2.86E+02	The state of the late of the control	ANNUAL PROPERTY AND THE	Water Production Communication		l/gm
15-09123-12	TRG	OUTFALL001	09/21/15 14:56	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	3.10E+01					l/gm
15-09123-13	TRG	KC-279	09/21/15 14:49	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	8.70E+01					mg/l
15-09123-14	TRG	KC85-032-U	09/21/15 12:53	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.50E+01					mg/l
15-09123-15	TRG	KC86-047-U	09/21/15 15:05	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	4.20E+01					l/gm
15-09123-16	TRG	KC94-199-U	09/18/15 09:56	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	8.00E+00					па/I
15-09123-17	TRG	KC94-199-L	09/18/15 10:44	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	7.70E+01				And the state of t	mg/l
15-09123-18	TRG	KC97-209-L	09/18/15 16:42	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.42E+02		Transmit Michigan State Control	neeronamento, entre properties de la companyante del companyante de la companyante d		mg/l
15-09123-19	TRG	KC97-209-U	09/19/15 11:15	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	7.60E+01		***		CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	mg/l
15-09123-20	TRG	KC-185-U	09/18/15 12:50	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	6.00E+01					mg/l

CU=Counting Uncertainty;CSU=Combined Standard Uncertainty (2-sigma);MDA=Minimal Detected Activity;LCS=Laboratory Control Sample; MBL=Blank; DUP=Duplicate; TRG=Normal Sample; DO=Duplicate Original; CV=Critical Value



: 66619

EBERLINE ANALYTICAL CORPORATION

601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

SECTION V LABORATORY TECHNICIAN'S NOTES

TDS NOTES



Work Order Analysis Notes

Oak Ridge Laboratory

601 Scarboro Rd. Oak Ridge, TN 37830 Voice: 865.481.0683 www.eberlineservices.com

Internal Work Order	15-09123
Analysis Code	TDS
Run Number	7 (

#	Date	Dept	User	Notes
1	09/23/15 09:28	PREP	MHIGHTOWER	Filtered sample into tared beaker, dried, re-weighed

Mh 235EDIS

TSS NOTES



Work Order Analysis Notes

Oak Ridge Laboratory

601 Scarboro Rd. Oak Ridge, TN 37830 Voice: 865.481.0683 www.eberlineservices.com

Internal Work Order	15-09123
Analysis Code	TSS
Run Number	a managarang managan pang 1 mg a mg 19

#	Date	Dept	User	Notes
1	09/23/15 09:29	PREP	MHIGHTOWER	Captured suspended particles on tared filters, dried, re-weighed

My 235EP15

SECTION VI ANALYTICAL DATA (TOTAL DISSOLVED SOLIDS)

Printed: 9/23/2015 9:51 AM Page 1 of 1

TDS / TSS Worksheet

Eberline Services - Oak Ridge Version 1.0 9/1999

Technician	MHIGHTOWER
Analysis Code	TDS
Run	Ļ
Work Order	15-19128

ပ္	TRetec Auxier & Associates, Inc.	A PARAMETER AND A PARAMETER AN		Filter Data		TDS/TSS	Maximum Alig
		Aliquot	Filter Tare	Filter Final	Filter Net		
Fraction	Client ID	lm	(B)	(a)	(a)	(mg/L)	(mL)
	KC85-035-L	100.0000	99.7625	99.8739	0.1114	1114.0000	89.77
	KC92-185-L	100.0000	109.6636	109.7215	0.0579	579.0000	172.71
	KC85-035-U	100.0000	101.1659	101.2377	0.0718	718,0000	139.28
	KC85-032-L	100.0000	110.1537	110.2378	0.0841	841.0000	118.91
	KC85-032-M	100.0000	109.4623	109.5850	0.1227	1227.0000	81.50
	KC86-047-L	100.0000	100.8378	100.8706	0.0328	328.0000	304.88
	KC90-140-L	100.0000	111.1003	111.1347	0.0344	344,0000	290.70
-	KC90-140-U	100.0000	109.9871	110.0133	0.0262	262.0000	381.68
	OUTFALL001	100.0000	122.8197	122.9107	0.0910	910.0000	109.89
- 1	KC-279	100.0000	113.3657	113.5480	0.1823	1823.0000	54,85
	KC85-032-U	100.0000	108.5756	108.8692	0.2936	2936.0000	34.06
	KC86-047-U	100.0000	103.4616	103.5159	0.0543	543.0000	184.16
	KC94-199-U	100.0000	104.1446	104.3118	0.1672	1672.0000	59.81
-	KC94-199-L	100.0000	109.4317	109.6544	0.2227	2227.0000	44.90
	KC97-209-L	100.0000	110.4082	110.5868	0.1786	1786.0000	55.99
	KC97-209-U	100.0000	110.5160	110.8960	0.3800	3800.0000	26.32
	KC-185-U	100.0000	104.5495	104.5807	0.0312	312.0000	320.51

My Date: 9/27/115

Technician:

Printed: 9/23/2015 9:27 AM Page 1 of 1

Aliquot Worksheet

Eberline Analytical Oak Ridge Laboratory

	Work Order	Run	Analysis Code	Rpt Units	Lab Deadline	dline			Tech	Technician		
	15-09123	_	TDS	liters	9/28/2015	015			MHIGH	MHIGHTOWER		
4	Auxier & Associates, Inc. Sample	Sample	Muffle Data		Dilution Data		Aliquot Data	: Data	MS Aliquot Data	ot Data	H-3 Solids Only	ds Only
			Ratio					And the second s	A CANADA MANAGEMENT OF THE PROPERTY AND AND A SECOND SECON		Water Added	H3 Dist
	Client ID	Type	Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	(ml)	Aliq
9	TCS	SOT					1.0000E+00	1.0000E+00				
02	BLANK	MBL					1.0000E+00	1.0000E+00				
83	KC85-035-L	DUP					1.0000E-01	1.0000E-01				
2	KC85-035-L	2					1.0000E-01	1.0000E-01	•		-	
92	KC92-185-L	TRG					1.0000E-01	1.0000E-01				
90	KC85-035-U	TRG					1.0000E-01	1.0000E-01				
20	KC85-032-L	TRG					1.0000E-01	1.0000E-01				
80	KC85-032-M	TRG		and delete			1.0000E-01	1.0000E-01				
60	KC86-047-L	TRG					1.0000E-01	1.0000E-01				
9	KC90-140-L	TRG					1.0000E-01	1.0000E-01				
-	KC90-140-U	TRG					1.0000E-01	1.0000E-01	—·			
72	OUTFALL001	TRG				***	1.0000E-01	1.0000E-01				
13	KC-279	TRG					1.0000E-01	1.0000E-01	•			
4	KC85-032-U	TRG			2 ¹ · · · · · · · · · · · · · · · · · · ·		1.0000E-01	1.0000E-01				
15	KC86-047-U	TRG	,				1.0000E-01	1.0000E-01				
16	KC94-199-U	TRG				- 1	1.0000E-01	1.0000E-01				
17	KC94-199-L	TRG				11.1	1.0000E-01	1.0000E-01				
18	KC97-209-L	TRG					1.0000E-01	1.0000E-01				
19	KC97-209-U	TRG			-,		1.0000E-01	1.0000E-01				
20	KC-185-U	TRG					1.0000E-01	1.0000E-01				

Comments

Mg Date: 9/23/15

Technician:

SECTION VII ANALYTICAL DATA (TOTAL SUSPENDED SOLIDS)

Eberline Services - Oak Ridge Version 1.0 9/1999

TDS / TSS Worksheet

Technician	MHIGHTOWER
Analysis Code	TSS
Run	
Work Order	15-09123

TRetec	TRetec Auxier & Associates, Inc.			Filter Data		TDS/TSS	Maximum Alig
;		Aliquot	Filter Tare	Filter Final	Filter Net	(mad)	(] tt.)
Fraction	Client ID	lm.	(g)	(a)	(g)	(mg/E)	(1111)
04	KC85-035-L	100.000	0.0728	0.0731	0.0003	3.0000	33333.33
05	KC92-185-L	100.0000	0.0731	0.0828	2600.0	97.0000	1030.93
90	KC85-035-U	100.0000	0.0734	0.0745	0.0011	11.0000	9090.91
07	KC85-032-L	100.0000	0.0734	0.0739	0.0005	5.0000	20000.00
80	KC85-032-M	100.0000	0.0705	0.0718	0.0013	13.0000	7692.31
60	KC86-047-L	100.0000	0.0697	0.0813	0.0116	116.0000	862.07
10	KC90-140-L	100.0000	0.0697	0.0746	0.0049	49.0000	2040.82
11	KC90-140-U	100.0000	9690.0	0.0982	0.0286	286,0000	349.65
12	OUTFALL001	100.0000	0.0697	0.0728	0.0031	31.0000	3225.81
13	KC-279	100.000	0.0708	0.0795	0.0087	87.0000	1149.43
14	KC85-032-U	100.0000	0.0701	0.0716	0.0015	15.0000	6666.67
15	KC86-047-U	100.0000	0.0704	0.0746	0.0042	42.0000	2380.95
16	KC94-199-U	100.0000	0.0706	0.0714	0.0008	8.0000	12500.00
17	KC94-199-L	100.0000	0.0696	0.0773	0.0077	77.0000	1298.70
18	KC97-209-L	100.000	0.0697	0.0839	0.0142	142.0000	704.23
19	KC97-209-U	100.000	0.0701	0.0777	0.0076	76.0000	1315.79
20	KC-185-U	100.0000	0.0695	0.0755	0900'0	60.0000	1666.67

Printed: 9/23/2015 9:28 AM Page 1 of 1

Aliquot Worksheet

Eberline Analytical Oak Ridge Laboratory

																				,		į			
			ds Only	H3 Dist	Aliq																				
Technician	MHIGHTOWER		H-3 Solids Only	Water Added	(ml)							The state of the s													
			MS Aliquot Data		Net Equiv									-											
	MHIGH		MS Aliqu		Aliquot																				
			Data)	Net Equiv	1.0000E+00	1.0000E+00	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1,0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1,0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01
			Aliquot Data		Alidnot	1.0000€+00	1.0000E+00	1.0000E-01	1.0000E-01	1,0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01	1.0000E-01
dline	9/28/2015		-	:	Katio						divide fact about the summer the executive are necessarian	The same of the sa											****		
Lab Deadline		Dilution Data		Dil Factor						ANTHORN IN THE CASE OF STATE AND A PERSON NAMED TO A STATE ASSESSMENT OF STATE ASSESSM					F					\\					
Rpt Units	liters		۵		No of Dils						The state of the s	And the second s													
Analysis Code	TSS		Muffle Data	Ratio	Post/Pre																				
Run	7 -		Sample	<u> </u>	Type	S	MBL	PUP	8	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG	TRG
Work Order	15-09123		Auxier & Associates, Inc. Sample	!	Client ID	ടാ	BLANK	KC85-035-L	KC85-035-L	KC92-185-L	KC85-035-U	KC85-032-L	KC85-032-M	KC86-047-L	KC90-140-L	KC90-140-U	OUTFALL001	KC-279	KC85-032-U	KC86-047-U	KC94-199-U	KC94-199-L	KC97-209-L	KC97-209-U	KC-185-U
			q ₀	Fraction		2	02	ន	8	92	90		80	60	10	#	12	13	14	15	16	17	18	19	20

MU Date: 9/27/15

Technician:

Comments