

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**

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**Eberline Services – Oak Ridge Laboratory
LABORATORY DATA SUPPORT CHECKLIST**

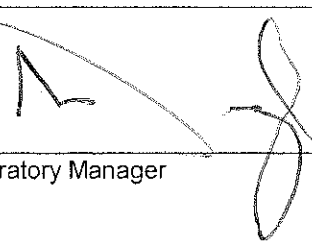
MP-001-3

Eberline Services Work Order # 15-09123

The checklist items listed below are to be initialed by appropriate staff upon completion/verification.

Date for Partial	Initials	Date	Initials	Checklist Items
		9-22-15	JEB	Sample Log-In
		09/23/15	EYT	Data Compilation
		9-23-15	MLT	First Technical Data Review
		9/23/15	MLT	Second Technical Data Review
		09/29/15	EYT	Data Entry/Electronic Deliverable
		09/29/15	EYT	Case Narrative
		9/29/15	KBS	Electronic Deliverable Proof
		9/30/15	USA	Samples Analyzed within Holding Time Yes? <input checked="" type="checkbox"/> No? <input type="checkbox"/>
		9/30/15	MOA	QA/QC Review
		09/23/15	EYT	Client in Possession of Data Electronic or Hard Copy
				Invoiced by Laboratory

Technical/Clerical Corrections, Signatures Needed, Problems, Etc	Date/Initials

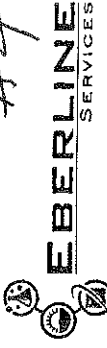
Date package approved by:  9/30/15
 Laboratory Manager Date

SECTION I
CHAIN OF CUSTODY
&
pH CHECK SHEET

Chain of Custody Record

No 1604

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



#4

Project Name: PAP/KAN		Project Number: 1428		Page 1 of 1			
Send Report To: Cecilia Green/Auxier & Assoc.		Sampler (Print Name):		Purchase Order #:			
Address:		Sampler (Print Name):		15-09123			
9821 Cogdill Road, Suite 1		Shipment Method: Federal Express		REC'D SEP 22 2015			
Knoxville, TN 37932		Airbill Number:					
Phone: 865-675-3669		Laboratory Receiving:					
Fax: 865-675-3677							
Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
KC86-047-L 9	9/21/15	15:40	Water	1	Total Suspended Solids (TSS)	Analyze TSS/TDS	
KC90-140-L 10	9/21/15	16:51	Water	1	Gross Alpha	contact ceilia	
KC90-140-U 11	9/21/15	16:21	Water	1	Gross Beta	Filter as directed	
					Total Dissolved Solids (TDS)	Analyze GARB	
					Isotopic Uranium	contact ceilia	
					Isotopic Thorium	Proceed as directed	
					Gross Alpha		
					Gross Beta		
					Isotopic Uranium		
					Isotopic Thorium		

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/21/15	Time: 6:30pm
Relinquished by: (Signature)	Received by: (Signature)	Date: 9-22-15	Time: 11:00
Relinquished by: (Signature)	Received by: (Signature)		

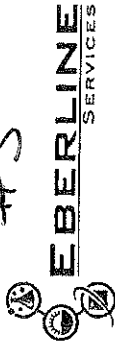
Sample Custodian Remarks (Completed By Laboratory):	
Turnaround	Sample Receipt
Level I <input type="checkbox"/>	Total # Containers Received? <input type="checkbox"/>
Level II <input type="checkbox"/>	COC Seals Present? <input type="checkbox"/>
Level III <input type="checkbox"/>	COC Seals Intact? <input type="checkbox"/>
Other <input type="checkbox"/>	Received Containers Intact? <input type="checkbox"/>
	Temperature? _____

Chain of Custody Record

No 1604

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

#3



Project Name: PAP/KAN		Project Number: 1428		Page 1 of 1			
Send Report To: Cecilia Green/Auxier & Assoc.		Sampler (Print Name):		RECD SEP 22 2015			
Address:		Sampler (Print Name):		15-09123			
9821 Cogdill Road, Suite 1		Shipment Method: Federal Express		Purchase Order #:			
Knoxville, TN 37932		Airbill Number:					
Phone: 865-675-3669		Laboratory Receiving:					
Fax: 865-675-3677							
Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
Duffall001	9/2/15	14:56	Water	1	Total Suspended Solids (TSS)	Analyze TSS/TBS	
KC-279	9/2/15	14:49	water	1	Gross Alpha	contact ceilia	
KC85-032-U	9/2/15	12:53	water	1	Gross Beta	Filter as directed	
KC86-047-U	9/2/15	15:05	water	1	Total Dissolved Solids (TDS)	Analyze GARG	
					Gross Alpha	contact ceilia	
					Gross Beta	Proceed as directed	
					Total Suspended Solids (TSS)		
					Total Dissolved Solids (TDS)		
					Isotopic Uranium		
					Isotopic Thorium		

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/2/15	Time: 6:30pm
Relinquished by: (Signature)	Received by: (Signature)	Date: 9-2-15	Time: 1:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):	
Turnaround	Sample Receipt
Level I <input type="checkbox"/>	Total # Containers Received?
Level II <input type="checkbox"/>	COC Seals Present?
Level III <input type="checkbox"/>	COC Seals Intact?
Other <input type="checkbox"/>	Received Containers Intact?
	Temperature?

Chain of Custody Record

No 1604

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



#1

Project Name: PAP/KAN		Project Number: 1428		Page <u>1</u> of <u>1</u>			
Send Report To: Cecilia Green/Auxier & Assoc.		Sampler (Print Name):		RECD SEP 22 2015 15-09123			
Address:		Sampler (Print Name):		Purchase Order #:			
9821 Cogdill Road, Suite 1		Shipment Method: Federal Express					
Knoxville, TN 37932		Airbill Number:					
Phone: 865-675-3669		Laboratory Receiving:					
Fax: 865-675-3677							
Field Sample ID	Sample Date	Sample Time	Sample Matrix	Number of Containers	Analysis Requested	Comments, Special Instructions, etc.	Lab Sample ID (to be completed by lab)
KC94-199-U	9/18/15	9:56	Water	1	Total Suspended Solids (TSS)	Analyse GATGB	
KC94-199-L	9/18/15	10:44	Water	1	Gross Alpha	contact ceilia	
KC97-209-L	9/18/15	16:42	Water	1	Gross Beta	Filter as directed	
KC97-209-U	9/19/15	11:15	Water	1	Total Dissolved Solids (TDS)	Analyse GATGB	
KC-185-U	9/18/15	12:50	Water	1	Gross Alpha	contact ceilia	
					Total Suspended Solids (TSS)	Proceed as directed	
					Gross Beta		
					Gross Alpha		
					Isotopic Uranium		
					Isotopic Thorium		

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/21/15	Time: 6:30 pm
Relinquished by: (Signature)	Received by: (Signature)	Date: 9-22-15	Time: 1100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Sample Custodian Remarks (Completed By Laboratory):	
QA/QC Level	Turnaround
Level I <input type="checkbox"/>	Routine <input type="checkbox"/>
Level II <input type="checkbox"/>	24 Hour <input type="checkbox"/>
Level III <input type="checkbox"/>	1 Week <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>
Total # Containers Received?	Sample Receipt
COC Seals Present?	
COC Seals Intact?	
Received Containers Intact?	
Temperature?	



EBERLINE
SERVICES
Oak Ridge Laboratory

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

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Mh	23 SEP 15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	Mh	23 SEP 15 1600
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		
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		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		



EBERLINE
SERVICES
Oak Ridge Laboratory

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

Received by	Location (circle one)					Initials	Date
	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	MH	23 SEP 15
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	MH	27 SEP 15 1000
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		
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		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

	Sample Receiving Report (Volumes, pH, & CPM)	Internal Work Order 15-09123
		Received By JBAILEY

FR	ClientID	# Btls	Comments	Matrix	Storage	Rec Vol Ttl	CPM Max
01	LCS	0		WA	U1.1		
02	BLANK	0		WA	U1.1		
03	DUP	0		WA	U1.1		
04	KC85-035-L	1		WA	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
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			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)	CPM
			1	7	7	3.7600	32
07	KC85-032-L	1		WA	U1.1	3.76	35
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	35
08	KC85-032-M	1		WA	U1.1	3.76	31
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	31
09	KC86-047-L	1		WA	U1.1	3.76	35
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	35
10	KC90-140-L	1		WA	U1.1	3.76	36
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	36
11	KC90-140-U	1		WA	U1.1	3.76	34
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	34
12	OUTFALL001	1		WA	U1.1	3.76	34
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			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
			1	7	7	3.7600	36
14	KC85-032-U	1		WA	U1.1	3.76	35
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	35
15	KC86-047-U	1		WA	U1.1	3.76	33
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	33
16	KC94-199-U	1		WA	U1.1	3.76	37
			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
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	31
18	KC97-209-L	1		WA	U1.1	3.76	31
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	31
19	KC97-209-U	1		WA	U1.1	3.76	35
			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
			Container Number	pH Orig	pH Final	Volume (L)	CPM
			1	7	7	3.7600	32


*151
09/22/15*

Received by: *James R Bailey*

Date: *9-22-15*

SECTION II
SAMPLE ACKNOWLEDGEMENT

Client Name		Contract/PO		Project Type		Date Received		Required Turnaround Days		Eberline Services Work Order	
Auxier & Associates, Inc.		PAP-KAN		Environmental		09/22/2015		7		15-09123	
Project Name		Client WO		Sample Disp		Lab Deadline		Internal Deadline		Client Deadline	
PAP-KAN		1428		W		09/28/2015		09/29/2015		09/29/2015	
Internal ID	Client ID	Sample Date	Matrix	Storage	U1	U2	U3	U4	U5	U6	U7
01	LCS	09/22/15	WA	U1.1	X						
02	BLANK	09/22/15	WA	U1.1	X						
03	DUP	09/22/15	WA	U1.1	X						
04	KC85-035-L	09/17/15 16:32	WA	U1.1	X						
05	KC92-185-L	09/18/15 13:39	WA	U1.1	X						
06	KC85-035-U	09/18/15 08:42	WA	U1.1	X						
07	KC85-032-L	09/21/15 14:42	WA	U1.1	X						
08	KC85-032-M	09/21/15 13:25	WA	U1.1	X						
09	KC86-047-L	09/21/15 15:40	WA	U1.1	X						
10	KC90-140-L	09/21/15 16:51	WA	U1.1	X						
11	KC90-140-U	09/21/15 16:21	WA	U1.1	X						
12	OUTFALL001	09/21/15 14:56	WA	U1.1	X						
13	KC-279	09/21/15 14:49	WA	U1.1	X						
14	KC85-032-U	09/21/15 12:53	WA	U1.1	X						
15	KC86-047-U	09/21/15 15:05	WA	U1.1	X						
16	KC94-199-U	09/18/15 09:56	WA	U1.1	X						
17	KC94-199-L	09/18/15 10:44	WA	U1.1	X						
18	KC97-209-L	09/18/15 16:42	WA	U1.1	X						
19	KC97-209-U	09/19/15 11:15	WA	U1.1	X						
20	KC-185-U	09/18/15 12:50	WA	U1.1	X						
Totals Per Analysis (non QA samples)					17	17	0	0	0	0	0

 <p>EBERLINE SERVICES</p> <p>Sample Log In Report</p>	<p>Oak Ridge Laboratory 601 Scarboro Rd. Oak Ridge, TN 37830</p> <p>Voice: (865) 481-0683 Fax: (865) 483-4621</p>	<p>Invoice</p> <p>Accounts Payable Auxier & Associates, Inc. 9821 Cogdill Drive #1 Knoxville, TN 37832</p> <p>865-675-3869 865-675-3877</p>	<p>Report Data</p> <p>Cecilia Greene Auxier & Associates, Inc. 9821 Cogdill Road, Suite 1 Knoxville, TN 37830</p> <p>Voice 865-675-3869 Fax 865-675-3877</p>
	<p>Contact</p> <p>Harvey Cohen 301-718-8900 301-718-8909</p>		



Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # **15-09123**

SAMPLE MATRIX/MATRICES:

(CIRCLE ONE OR BOTH)

AQUEOUS NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	<input checked="" type="radio"/>	N	
If aqueous, properly preserved	<input checked="" type="radio"/>	N	N/A

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	<input checked="" type="radio"/>	N
Unbroken on outside of package?	<input checked="" type="radio"/>	N
Present on samples?	<input checked="" type="radio"/>	N
Unbroken on samples?	<input checked="" type="radio"/>	N
Was chain of custody present upon sample receipt?	<input checked="" type="radio"/>	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: _____

SIGNATURE: *James E. Bailey* DATE: 9-22-15

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>	<u>LAB ID</u>
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	15-09123-08	KC94-199-L	15-09123-17
KC86-047-L	15-09123-09	KC97-209-L	15-09123-18
KC90-140-L	15-09123-10	KC97-209-U	15-09123-19
KC90-140-U	15-09123-11	KC-185-U	15-09123-20
OUTFALL001	15-09123-12		

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 0.45µm 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.

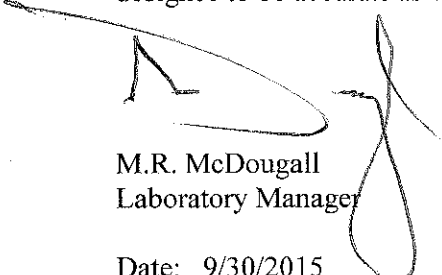
TOTAL SUSPENDED SOLIDS (TSS)

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

Eberline Analytical

Final Report of Analysis

Cecilia Greene
Auxier & Associates, Inc.
9821 Cogdill Road, Suite 1
Knoxville, TN 37830

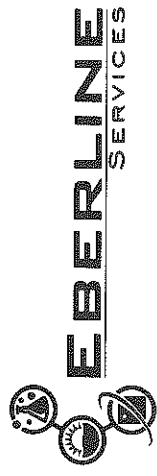
Work Order Details:

SDG: 15-09123
Purchase Order: PAP-KAN
Analysis Category: ENVIRONMENTAL
Sample Matrix: WA

Report To:

Lab ID	Sample Type	Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	CU	CSU	MDA	CV	Report Units
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					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					mg/l
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					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					mg/l
15-09123-10	TRG	KC90-140-L	09/21/15 16:51	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	3.44E+02					mg/l
15-09123-11	TRG	KC90-140-U	09/21/15 16:21	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	2.62E+02					mg/l
15-09123-12	TRG	OUTFALL001	09/21/15 14:49	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	9.10E+02					mg/l
15-09123-13	TRG	KC-279	09/21/15 12:53	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.82E+03					mg/l
15-09123-14	TRG	KC85-032-U	09/21/15 15:05	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	2.94E+03					mg/l
15-09123-15	TRG	KC86-047-U	09/18/15 09:56	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	5.43E+02					mg/l
15-09123-16	TRG	KC94-199-U	09/18/15 10:44	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 16:42	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	2.23E+03					mg/l
15-09123-18	TRG	KC97-209-L	09/19/15 11:15	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	1.79E+03					mg/l
15-09123-19	TRG	KC-185-U	09/18/15 12:50	9/22/2015	9/23/2015	15-09123	TDS	SM 2540C	3.80E+03					mg/l
15-09123-20	TRG	KC-185-U	09/17/15 16:32	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	3.12E+02					mg/l
15-09123-04	TRG	KC85-035-L	09/18/15 13:39	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	3.00E+00					mg/l
15-09123-05	TRG	KC92-185-L	09/18/15 08:42	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	9.70E+01					mg/l
15-09123-06	TRG	KC85-035-U	09/21/15 14:42	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 13:25	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	5.00E+00					mg/l
15-09123-08	TRG	KC85-032-M	09/21/15 15:40	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.30E+01					mg/l
15-09123-09	TRG	KC86-047-L	09/21/15 16:51	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.16E+02					mg/l
15-09123-10	TRG	KC90-140-U	09/21/15 16:21	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	4.90E+01					mg/l
15-09123-11	TRG	KC90-140-U	09/21/15 14:56	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	2.86E+02					mg/l
15-09123-12	TRG	OUTFALL001	09/21/15 14:49	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	3.10E+01					mg/l
15-09123-13	TRG	KC-279	09/21/15 12:53	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 15:05	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.50E+01					mg/l
15-09123-15	TRG	KC86-047-U	09/18/15 09:56	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	4.20E+01					mg/l
15-09123-16	TRG	KC94-199-U	09/18/15 10:44	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	8.00E+00					mg/l
15-09123-17	TRG	KC94-199-L	09/18/15 16:42	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	7.70E+01					mg/l
15-09123-18	TRG	KC97-209-L	09/19/15 11:15	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	1.42E+02					mg/l
15-09123-19	TRG	KC-185-U	09/18/15 12:50	9/22/2015	9/23/2015	15-09123	TSS	SM 2540D	7.60E+01					mg/l
15-09123-20	TRG	KC-185-U	09/17/15 16:32	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




EBERLINE
SERVICES

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

SECTION V
LABORATORY TECHNICIAN'S NOTES

TDS NOTES

 EBERLINE <small>SERVICES</small> 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	1

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

Mh 23SEP15

TSS NOTES

 EBERLINE <small>SERVICES</small> 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	1

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

Mh 23 SEP 15

SECTION VI
ANALYTICAL DATA (TOTAL DISSOLVED SOLIDS)

TDS / TSS Worksheet

Work Order	Run	Analysis Code	Technician
15-09123	1	TDS	MHIGHTOWER

TRetec Fraction	Client ID	Aliquot ml	Filter Data			TDS/TSS (mg/L)	Maximum Aliq (mL)
			Filter Tare (g)	Filter Final (g)	Filter Net (g)		
04	KC85-035-L	100.0000	99.7625	99.8739	0.1114	1114.0000	89.77
05	KC92-185-L	100.0000	109.6636	109.7215	0.0579	579.0000	172.71
06	KC85-035-U	100.0000	101.1659	101.2377	0.0718	718.0000	139.28
07	KC85-032-L	100.0000	110.1537	110.2378	0.0841	841.0000	118.91
08	KC85-032-M	100.0000	109.4623	109.5850	0.1227	1227.0000	81.50
09	KC86-047-L	100.0000	100.8378	100.8706	0.0328	328.0000	304.88
10	KC90-140-L	100.0000	111.1003	111.1347	0.0344	344.0000	290.70
11	KC90-140-U	100.0000	109.9871	110.0133	0.0262	262.0000	381.68
12	OUTFALL001	100.0000	122.8197	122.9107	0.0910	910.0000	109.89
13	KC-279	100.0000	113.3657	113.5480	0.1823	1823.0000	54.85
14	KC85-032-U	100.0000	108.5756	108.8692	0.2936	2936.0000	34.06
15	KC86-047-U	100.0000	103.4616	103.5159	0.0543	543.0000	184.16
16	KC94-199-U	100.0000	104.1446	104.3118	0.1672	1672.0000	59.81
17	KC94-199-L	100.0000	109.4317	109.6544	0.2227	2227.0000	44.90
18	KC97-209-L	100.0000	110.4082	110.5868	0.1786	1786.0000	55.99
19	KC97-209-U	100.0000	110.5160	110.8960	0.3800	3800.0000	26.32
20	KC-185-U	100.0000	104.5495	104.5807	0.0312	312.0000	320.51

Technician: AW Date: 9/23/15

Aliquot Worksheet

Work Order		Run		Analysis Code		Rpt Units		Lab Deadline		Technician	
15-09123		1		TDS		liters		9/28/2015		MHIGHTOWER	

Lab Fraction	Auxier & Associates, Inc.		Sample		Muffle Data		Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
	Client ID	LCS	Type	TRG	Ratio Post/Pre	No of Dilis	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq	
01	LCS		LCS						1.0000E+00	1.0000E+00					
02	BLANK		MBL						1.0000E+00	1.0000E+00					
03	KC85-035-L		DUP						1.0000E-01	1.0000E-01					
04	KC85-035-L		DO						1.0000E-01	1.0000E-01					
05	KC92-185-L		TRG						1.0000E-01	1.0000E-01					
06	KC85-035-U		TRG						1.0000E-01	1.0000E-01					
07	KC85-032-L		TRG						1.0000E-01	1.0000E-01					
08	KC85-032-M		TRG						1.0000E-01	1.0000E-01					
09	KC86-047-L		TRG						1.0000E-01	1.0000E-01					
10	KC90-140-L		TRG						1.0000E-01	1.0000E-01					
11	KC90-140-U		TRG						1.0000E-01	1.0000E-01					
12	OUTFALL001		TRG						1.0000E-01	1.0000E-01					
13	KC-279		TRG						1.0000E-01	1.0000E-01					
14	KC85-032-U		TRG						1.0000E-01	1.0000E-01					
15	KC86-047-U		TRG						1.0000E-01	1.0000E-01					
16	KC94-199-U		TRG						1.0000E-01	1.0000E-01					
17	KC94-199-L		TRG						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	
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Technician: MS Date: 9/23/15

SECTION VII
ANALYTICAL DATA (TOTAL SUSPENDED SOLIDS)

TDS / TSS Worksheet

Work Order	Run	Analysis Code	Technician
15-09123	1	TSS	MHIGHTOWER

TRetec Fraction	Client ID	Aliquot ml	Filter Data			TDS/TSS (mg/L)	Maximum Aliq (mL)
			Filter Tare (g)	Filter Final (g)	Filter Net (g)		
04	KC85-035-L	100.0000	0.0728	0.0731	0.0003	3.0000	33333.33
05	KC92-185-L	100.0000	0.0731	0.0828	0.0097	97.0000	1030.93
06	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
08	KC85-032-M	100.0000	0.0705	0.0718	0.0013	13.0000	7692.31
09	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	0.0696	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	100.0000	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	100.0000	0.0697	0.0839	0.0142	142.0000	704.23
19	KC97-209-U	100.0000	0.0701	0.0777	0.0076	76.0000	1315.79
20	KC-185-U	100.0000	0.0695	0.0755	0.0060	60.0000	1666.67

Technician: Mh Date: 9/23/15

Aliquot Worksheet

Work Order		Run	Analysis Code	Rpt Units	Lab Deadline	Technician	
15-09123		1	TSS	liters	9/28/2015	MHIGHTOWER	

Lab Fraction	Auxier & Associates, Inc.		Muffle Data		Dilution Data			Aliquot Data		MS Aliquot Data		H-3 Solids Only	
	Client ID	Sample Type	Ratio Post/Pre	No of Dils	Dil Factor	Ratio	Aliquot	Net Equiv	Aliquot	Net Equiv	Water Added (ml)	H3 Dist Aliq	
01	LCS	LCS					1.0000E+00	1.0000E+00					
02	BLANK	MBL					1.0000E+00	1.0000E+00					
03	KC85-035-L	DUP					1.0000E-01	1.0000E-01					
04	KC85-035-L	DO					1.0000E-01	1.0000E-01					
05	KC92-185-L	TRG					1.0000E-01	1.0000E-01					
06	KC85-035-U	TRG					1.0000E-01	1.0000E-01					
07	KC85-032-L	TRG					1.0000E-01	1.0000E-01					
08	KC85-032-M	TRG					1.0000E-01	1.0000E-01					
09	KC86-047-L	TRG					1.0000E-01	1.0000E-01					
10	KC90-140-L	TRG					1.0000E-01	1.0000E-01					
11	KC90-140-U	TRG					1.0000E-01	1.0000E-01					
12	OUTFALL001	TRG					1.0000E-01	1.0000E-01					
13	KC-279	TRG					1.0000E-01	1.0000E-01					
14	KC85-032-U	TRG					1.0000E-01	1.0000E-01					
15	KC86-047-U	TRG					1.0000E-01	1.0000E-01					
16	KC94-199-U	TRG					1.0000E-01	1.0000E-01					
17	KC94-199-L	TRG					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

Technician: MVL Date: 9/23/15