

Town of Edgewood

1ST Quarter Report 2014
for

WWTP

To: KAY DAVIS





Solids removal - Edgewood WWTP DP - 1654

2014

January	9297
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February	3663
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March	0
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April	
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May	
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June	
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July	
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August	
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September	
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October	
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November	
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December	
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This is gallons that have went to Belt Press

We have had some issues with our MLSS.



Turbidity reads- Edgewood WWTP
 DP-1654

	Jan	Feb	March
1	0.4	0.7	0.8
2	0.4	0.4	0.2
3	0.4	0.4	0.6
4	0.4	0.4	0.6
5	0.4	0.4	0.6
6	0.4	0.4	0.3
7	0.6	0.5	0.6
8	0.8	0.7	0.6
9	0.7	0.5	0.6
10	0.7	0.8	0.6
11	0.7	0.7	0.6
12	0.3	0.7	0.6
13	0.4	0.6	0.4
14	0.4	0.6	0.4
15	0.4	0.6	0.6
16	0.4	0.6	0.3
17	0.4	0.6	0.6
18	0.4	0.9	0.6
19	0.4	0.3	0.6
20	0.4	0.8	0.6
21	0.4	0.3	0.6
22	0.4	0.5	0.6
23	0.4	0.4	0.7
24	0.4	0.4	0.8
25	0.4	0.4	0.3
26	0.4	0.4	0.3
27	0.4	0.4	0.3
28	0.4	0.4	0.4
29	0.4		0.4
30	0.4		0.4
31	0.4		0.4



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service
Project: Edgewood WWTP
Lab ID: 1312991-002

Client Sample ID: Influent
Collection Date: 12/20/2013 10:45:00 AM
Received Date: 12/20/2013 11:25:00 AM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SUB
Biochemical Oxygen Demand	780	5.0	H	mg/L	1	1/2/2014	R15936

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



Analytical Report

Lab Order 1312991

Date Reported: 1/8/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 12/20/2013 10:45:00 AM

Lab ID: 1312991-001

Matrix: AQUEOUS

Received Date: 12/20/2013 11:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	410	25		mg/L	50	12/27/2013 9:13:21 PM	R15790
Nitrogen, Nitrate (As N)	3.6	0.50		mg/L	5	12/20/2013 6:10:17 PM	R15735
SM5210B: BOD							Analyst: SUB
Biochemical Oxygen Demand	ND	5.0		mg/L	1	12/26/2014	R15936
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1300	20.0	*	mg/L	1	12/26/2013 11:29:00 AM	10975
SM 4500 NORG C: TKN							Analyst: TMG
Nitrogen, Kjeldahl, Total	2.0	1.0		mg/L	1	1/6/2014 9:15:00 AM	11049

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



Analytical Report

Lab Order 1401255

Date Reported: 1/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 1/8/2014 10:00:00 AM

Lab ID: 1401255-001

Matrix: AQUEOUS

Received Date: 1/8/2014 12:21:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	11	2.0		mg/L	1	1/14/2014 11:05:00 AM	11150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 1/8/2014 10:00:00 AM

Lab ID: 1401255-002

Matrix: AQUEOUS

Received Date: 1/8/2014 12:21:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	690	2.0		mg/L	1	1/14/2014 11:05:00 AM	11150

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



Analytical Report

Lab Order 1401839

Date Reported: 1/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 1/21/2014 12:45:00 PM

Lab ID: 1401839-001

Matrix: AQUEOUS

Received Date: 1/21/2014 1:46:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	ND	2.0		mg/L	1	1/27/2014 10:08:00 AM	11340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Analytical Report

Lab Order 1401839

Date Reported: 1/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 1/21/2014 12:45:00 PM

Lab ID: 1401839-002

Matrix: AQUEOUS

Received Date: 1/21/2014 1:46:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	660	2.0		mg/L	1	1/27/2014 10:08:00 AM	11340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Analytical Report

Lab Order 1402032

Date Reported: 2/12/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 2/3/2014 10:15:00 AM

Lab ID: 1402032-002

Matrix: AQUEOUS

Received Date: 2/3/2014 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	43	2.0		mg/L	1	2/10/2014 11:09:00 AM	11568

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank		
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit		Page 2 of 4
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.		
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
	S	Spike Recovery outside accepted recovery limits				



Analytical Report

Lab Order 1402032

Date Reported: 2/12/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 2/3/2014 10:15:00 AM

Lab ID: 1402032-001

Matrix: AQUEOUS

Received Date: 2/3/2014 12:47:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	440	2.0		mg/L	1	2/10/2014 11:09:00 AM	11568
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1280	40.0	*	mg/L	1	2/7/2014 4:08:00 PM	11596

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 4
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 2/11/2014 10:45:00 AM

Lab ID: 1402394-001

Matrix: AQUEOUS

Received Date: 2/11/2014 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Nitrogen, Nitrate (As N)	1.4	0.50		mg/L	5	2/11/2014 8:40:28 PM	R16694
EPA METHOD 200.7: DISSOLVED METALS							Analyst: JLF
Calcium	190	5.0		mg/L	5	2/12/2014 2:51:39 PM	R16708
Magnesium	29	1.0		mg/L	1	2/12/2014 2:49:45 PM	R16708
SM2340B: HARDNESS							Analyst: JLF
Hardness (As CaCO ₃)	600	6.6		mg/L	1	2/12/2014 12:25:00 PM	R16708
SM4500-H+B: PH							Analyst: JML
pH	7.98	1.68	H	pH units	1	2/11/2014 7:25:19 PM	R16704
SM2320B: ALKALINITY							Analyst: JML
Bicarbonate (As CaCO ₃)	500	20		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
Carbonate (As CaCO ₃)	ND	2.0		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
Total Alkalinity (as CaCO ₃)	500	20		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
SM 4500 NORG C: TKN							Analyst: TMG
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	2/19/2014 6:10:00 AM	11780

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service
Project: Edgewood WWTP
Lab ID: 1403087-002

Client Sample ID: Influent
Collection Date: 3/4/2014 11:00:00 AM
Received Date: 3/4/2014 12:33:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	370	2.0		mg/L	1	3/10/2014 11:30:00 AM	12027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 3/4/2014 11:00:00 AM

Lab ID: 1403087-003

Matrix: AQUEOUS

Received Date: 3/4/2014 12:33:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	55	2.0		mg/L	1	3/10/2014 11:30:00 AM	12027

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	Page 3 of 5
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		



Analytical Report

Lab Order 1403315

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 3/10/2014 11:15:00 AM

Lab ID: 1403315-001

Matrix: AQUEOUS

Received Date: 3/10/2014 12:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							Analyst: SMS
Biochemical Oxygen Demand	750	2.0		mg/L	1	3/17/2014 9:53:00 AM	12140
EPA METHOD 8260B: VOLATILES							Analyst: cadg
Benzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Toluene	1.0	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Ethylbenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Naphthalene	ND	2.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
2-Methylnaphthalene	ND	4.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Acetone	12	10		µg/L	1	3/12/2014 11:58:53 AM	R17267
Bromobenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Bromodichloromethane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Bromoform	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Bromomethane	ND	3.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
2-Butanone	ND	10		µg/L	1	3/12/2014 11:58:53 AM	R17267
Carbon disulfide	ND	10		µg/L	1	3/12/2014 11:58:53 AM	R17267
Carbon Tetrachloride	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Chlorobenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Chloroethane	ND	2.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Chloroform	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Chloromethane	ND	3.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
2-Chlorotoluene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
4-Chlorotoluene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
cis-1,2-DCE	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Dibromochloromethane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Dibromomethane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,1-Dichloroethane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,1-Dichloroethene	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267
1,2-Dichloropropane	ND	1.0		µg/L	1	3/12/2014 11:58:53 AM	R17267

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 7
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		



Analytical Report

Lab Order 1403315

Date Reported: 3/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 3/10/2014 11:15:00 AM

Lab ID: 1403315-002

Matrix: AQUEOUS

Received Date: 3/10/2014 12:43:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							
Biochemical Oxygen Demand	56	2.0		mg/L	1	3/17/2014 9:53:00 AM	12140

Analyst: **SMS**

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1403778
 Date Reported: 3/27/2014

CLIENT: Rocking V Water Service

Client Sample ID: Influent

Project: Edgewood WWTP

Collection Date: 3/18/2014 12:30:00 PM

Lab ID: 1403778-002

Matrix: AQUEOUS

Received Date: 3/18/2014 1:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							
Biochemical Oxygen Demand	590	2.0		mg/L	1	3/24/2014 9:23:00 AM	12245

Analyst: **SMS**

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1403778
 Date Reported: 3/27/2014

CLIENT: Rocking V Water Service **Client Sample ID:** Effluent
Project: Edgewood WWTP **Collection Date:** 3/18/2014 12:30:00 PM
Lab ID: 1403778-001 **Matrix:** AQUEOUS **Received Date:** 3/18/2014 1:37:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD							
Biochemical Oxygen Demand	58	2.0		mg/L	1	3/24/2014 9:23:00 AM	12245
							Analyst: SMS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. -

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	E Value above quantitation range	H Holding times for preparation or analysis exceeded	
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit	Page 1 of 3
	O RSD is greater than RSDlimit	P Sample pH greater than 2.	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S Spike Recovery outside accepted recovery limits		



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rocking V Water Service

Client Sample ID: Effluent

Project: Edgewood WWTP

Collection Date: 2/11/2014 10:45:00 AM

Lab ID: 1402394-001

Matrix: AQUEOUS

Received Date: 2/11/2014 12:35:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Nitrogen, Nitrate (As N)	1.4	0.50		mg/L	5	2/11/2014 8:40:28 PM	R16694
EPA METHOD 200.7: DISSOLVED METALS							
Calcium	190	5.0		mg/L	5	2/12/2014 2:51:39 PM	R16708
Magnesium	29	1.0		mg/L	1	2/12/2014 2:49:45 PM	R16708
SM2340B: HARDNESS							
Hardness (As CaCO ₃)	600	6.6		mg/L	1	2/12/2014 12:25:00 PM	R16708
SM4500-H+B: PH							
pH	7.98	1.68	H	pH units	1	2/11/2014 7:25:19 PM	R16704
SM2320B: ALKALINITY							
Bicarbonate (As CaCO ₃)	500	20		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
Carbonate (As CaCO ₃)	ND	2.0		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
Total Alkalinity (as CaCO ₃)	500	20		mg/L CaCO ₃	1	2/11/2014 7:25:19 PM	R16704
SM 4500 NORG C: TKN							
Nitrogen, Kjeldahl, Total	1.1	1.0		mg/L	1	2/19/2014 6:10:00 AM	11780

RF Q
2014

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client: Rocking V Water Service
Project: Edgewood WWTP

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R16708	RunNo:	16708					
Prep Date:		Analysis Date:	2/12/2014	SeqNo:	480871	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	99.4	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R16708	RunNo:	16708					
Prep Date:		Analysis Date:	2/12/2014	SeqNo:	480873	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	49	1.0	50.00	0	98.6	85	115			
Magnesium	50	1.0	50.00	0	99.6	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client: Rocking V Water Service

Project: Edgewood WWTP

Sample ID A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480596 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.8	0.10	4.800	0	100	90	110			

Sample ID MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480598 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSW	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480599 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	103	90	110			

Sample ID A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480607 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.5	0.10	7.200	0	104	90	110			

Sample ID A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480619 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.8	0.10	4.800	0	100	90	110			

Sample ID A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480631 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.8	0.10	7.200	0	108	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client: Rocking V Water Service

Project: Edgewood WWTP

Sample ID A5	SampType: CCV_5	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480643			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	4.8	0.10	4.800	0	99.9	90	110			

Sample ID A6	SampType: CCV_6	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480653			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	7.6	0.10	7.200	0	106	90	110			

Sample ID A4	SampType: CCV_4	TestCode: EPA Method 300.0: Anions								
Client ID: BatchQC	Batch ID: R16694	RunNo: 16694								
Prep Date:	Analysis Date: 2/11/2014	SeqNo: 480662			Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrate (As N)	2.9	0.10	3.000	0	95.8	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client: Rocking V Water Service

Project: Edgewood WWTP

Sample ID	mb-1	SampType:	mbk	TestCode:	SM2320B: Alkalinity					
Client ID:	PBW	Batch ID:	R16704	RunNo:	16704					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480818	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	ics-1	SampType:	ics	TestCode:	SM2320B: Alkalinity					
Client ID:	LCSW	Batch ID:	R16704	RunNo:	16704					
Prep Date:		Analysis Date:	2/11/2014	SeqNo:	480819	Units:	mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	79	20	80.00	0	98.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402394

20-Feb-14

Client: Rocking V Water Service

Project: Edgewood WWTP

Sample ID	MB-11780	SampType:	MBLK	TestCode:	SM 4500 Norg C: TKN					
Client ID:	PBW	Batch ID:	11780	RunNo:	16831					
Prep Date:	2/18/2014	Analysis Date:	2/19/2014	SeqNo:	484632	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	ND	1.0								

Sample ID	LCS-11780	SampType:	LCS	TestCode:	SM 4500 Norg C: TKN					
Client ID:	LCSW	Batch ID:	11780	RunNo:	16831					
Prep Date:	2/18/2014	Analysis Date:	2/19/2014	SeqNo:	484633	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Kjeldahl, Total	10	1.0	10.00	0	102	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Sample Log-In Check List

Client Name: **Rocking V Water**

Work Order Number: **1402394**

RcptNo: **1**

Received by/date: LM 02/11/14

Logged By: **Michelle Garcia** 2/11/2014 12:35:00 PM *Michelle Garcia*

Completed By: **Michelle Garcia** 2/11/2014 2:24:45 PM *Michelle Garcia*

Reviewed By: *[Signature]* 02/11/14

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

Samples were collected the same day and chilled.

- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No

hardness: Poured from 500ml Lmpres into a 125 ml HNO3. 02/11/14

- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 2

Adjusted? yes (<2/ or >12 unless noted)

Checked by: *[Signature]*

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp. (C)	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	14.9	Good	Not Present			







Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 20, 2014

Dave Thomas
Rocking V Water Service
22 Valley Rd
Edgewood, NM 87015
TEL: (505) 681-1121
FAX (505) 281-4106

RE: Edgewood WWTP

OrderNo.: 1402394

Dear Dave Thomas:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/11/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

