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ATTACHMENT B

CHLORIDE MONITORING RESULTS

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

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REIC

Improving the environment, one client at a time...

November 06, 2008

MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0810L42

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 2 sample(s) on 10/31/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

REIC

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

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Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0810L42**
Date: **11/6/2008**

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

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REI Consultants, Inc. Analytical Results

Date: *13-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0810L42 **Lab ID** 0810L42-01
Client Sample ID:	WPCP FINAL EFFLUENT	**DateReceived:**	10/31/2008
Project:	CHLORIDES	**Collection Date:**	10/30/2008 9:00:00 AM
Site ID:		**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: CC
Chloride	111	mg/L		NA	5.00	11/5/2008 2:39:00 PM

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrat		

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REI Consultants, Inc. Analytical Results

Date: *13-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0810L42	**Lab ID**	0810L42-02
Client Sample ID:	WPCP FINAL EFFLUENT	**DateReceived:**	10/31/2008		
Project:	CHLORIDES	**Collection Date:**	10/31/2008 9:02:00 AM		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	106	mg/L		NA	5.00	11/5/2008 2:58:00 PM

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO.

CLIENT: WWA - WPCP
ADDRESS: 1002 Brownlee Avenue SE
CITY/STATE/ZIP: Roanoke, VA 24014
BILL TO: Marty Sensabaugh
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Marty Sensabaugh
TELEPHONE #: 540-853-5274
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE:
PROJECT ID:
SAMPLER:

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: Cadmium	COMMENTS
WPCP Final Effluent	1	10/30 9:00AM to 10/30 9:00AM	WW	Comp	✓	
WPCP Final Effluent	1	10/31 9:00AM to 10/31 9:00AM	WW	Comp	✓	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Lisa Williamson	10-31-08 10:40	[signature]	10-31-08 10:40a	[signature]	10-31-08 11:20A	Katrina Wood	10-31-08 11:20
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival: 1.5 °C	FAX Results	Email Results	

RECEIVED NOV 26 2008 BRRO

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

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Improving the environment, one client at a time...

November 12, 2008

MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0811289

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 8 sample(s) on 11/5/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

RECEIVED NOV 26 2008 DEQ - BRRO

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Improving the environment, one client at a time...

Report Narrative

Project Manager:: Joy Mullins

WO#: 0811289
Date: 11/12/2008

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. Analytical Results

Date: *25-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811289	**Lab ID**	0811289-04A
Client Sample ID:	WPCP-FINAL EFFLUENT	**DateReceived:**	11/5/2008		
Project:	CHLORIDES	**Collection Date:**	11/1/2008 9:06:00 AM		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	104	mg/L		NA	5.00	11/7/2008 7:17:00 AM

NOTES:

Matrix spike recoveries were not within method criteria due to matrix interference. LCS recoveries indicate method was in control.

Key:				
	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

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REI Consultants, Inc. Analytical Results

Date: *25-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811289	**Lab ID**	0811289-08A
Client Sample ID:	WPCP-FINAL EFFLUENT	**DateReceived:**	11/5/2008		
Project:	CHLORIDES	**Collection Date:**	11/2/2008 9:05:00 AM		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	104	mg/L		NA	5.00	11/10/2008 6:53:00 PM

Key:				
	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO.

CLIENT: WVAW WPCF
ADDRESS: 1500 Pineville Ave SE
CITY/STATE/ZIP: Charleston, WA 24314
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Marty [illegible]
TELEPHONE #: 304 925 5014
FAX #: 304 [illegible] 1507
E-MAIL ADDRESS: martin.goodbourn@[illegible]
SITE ID & STATE
PROJECT ID:
SAMPLER:

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior laboratory approval and will incur extra charges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES →

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: Chlorine	COMMENTS
WPCF - Pre-filter	1	[illegible]	WW	Comp	✓	
WPCF - At Hypochlorite	1	[illegible]	WW	Comp	✓	
WPCF - After Aeration	1	[illegible]	WW	Comp	✓	
WPCF - Final Effluent	1	[illegible]	WW	Comp	✓	
WPCP - Pre-filter	1	[illegible]	WW	Comp	✓	
WPCP - At Hypochlorite	1	[illegible]	WW	Comp	✓	
WPCP - After Aeration	1	[illegible]	WW	Comp	✓	
WPCP - Final Effluent	1	[illegible] 9:05	WW	Comp	✓	
	24 bottles					

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[illegible]	11-4-08 1:55pm	[illegible]	11-4-08 1:55pm	[illegible]	11-4-08 2:32pm	C. Yates	11-4-08 1436

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Temperature Upon Arrival °C
				1.5

FAX Results Email Results

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reielabs.com

REIC

Improving the environment, one client at a time...

November 10, 2008

MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0811284

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 8 sample(s) on 11/5/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0811284**
Date: **11/10/2008**

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

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If you have any questions please contact the project manager whose name is listed above.

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REI Consultants, Inc. Analytical Results

Date: *25-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811284	**Lab ID**	0811284-04A
Client Sample ID:	WPCP-FINAL EFFLUENT	**DateReceived:**	11/5/2008		
Project:	CHLORIDES	**Collection Date:**	11/3/2008 8:53:00 AM		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	82.5	mg/L		NA	5.00	11/7/2008 3:09:00 AM

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound. Estimated Concentrati		

REI Consultants, Inc. Analytical Results

Date: *25-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811284	**Lab ID**	0811284-08A
Client Sample ID:	WPCP-FINAL EFFLUENT	**DateReceived:**	11/5/2008		
Project:	CHLORIDES	**Collection Date:**	11/4/2008 8:53:00 AM		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	88.0	mg/L		NA	5.00	11/7/2008 6:01:00 AM

NOTES:

Matrix spike recoveries were not within method criteria due to matrix interference. LCS recoveries indicate method was in control.

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

DBPix Evaluation

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO.

CLIENT: WVWA - WRCF
ADDRESS: 1502 Brambleton AVE SE
CITY/STATE/ZIP: Roanoke, VA 24014
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: April Cincotta
TELEPHONE #:
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE
PROJECT ID.
SAMPLER:

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	ANALYSIS REQUESTED & METHOD: Chloride													COMMENTS
WRCF - Prefilter	1	11-2-08/7:[illegible] 11-3-08/7:[illegible]	WW	Comp	✓													
WRCF - At Hypochlorite	1	11-2-08/7:[illegible] 11-3-08/7:[illegible]	WW	Comp	✓													
WRCF - After Aeration	1	11-2-08/7:[illegible] 11-3-08/7:[illegible]	WW	Comp	✓													
WRCF Final Effluent	1	11-2-08/8:[illegible] 11-3-08/8:[illegible]	WW	Comp	✓													
WRCF - Prefilter	1	11-4-08/7:[illegible] 11-5-08/7:[illegible]	WW	Comp	✓													
WRCF - At Hypochlorite	1	11-4-08/7:[illegible] 11-5-08/7:[illegible]	WW	Comp	✓													
WRCF - At Aeration	1	11-4-08/7:[illegible] 11-5-08/7:[illegible]	WW	Comp	✓													
WRCF Final Effluent	1	11-4-08/8:[illegible] 11-5-08/8:[illegible]	WW	Comp	✓													

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Steve Workman	11-04-08 1:55pm	[signature]	11-4-08 1:55pm	[signature]	11-4-08 2:36pm	C. Yates	11-4-08 1430
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	1.5 Temperature Upon Arrival	FAX Results	Email Results	

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reielabs.com

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November 11, 2008

MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0811353

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 4 sample(s) on 11/6/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

Accredited in accordance with nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0811353**
Date: **11/11/2008**

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

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All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters.. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

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If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. Analytical Results

Date: *25-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811353	**Lab ID**	0811353-04A
Client Sample ID:	WPCP FINAL EFFLUENT	**DateReceived:**	11/6/2008		
Project:	CHLORIDES	**Collection Date:**	11/5/2008 8:50:00 AM		
Site ID:		**Matrix:**	LIQUID		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	96.0	mg/L		NA	5.00	11/7/2008 3:07:00 PM

Key:

MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
NA	Not Applicable	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
TIC	Tentatively Identified Compound, Estimated Concentrati		

DBPix Evaluation

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO.

CLIENT: Water PA Water Authority
ADDRESS: 1602 Beaverdale
CITY/STATE/ZIP: Roanoke PA Area S.E. 2000
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON:
TELEPHONE #:
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE:
PROJECT ID:
SAMPLER:

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR:
*RUSH 5-Day 3-Day 2-Day 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	Chlorine	COMMENTS
[illegible]	1	[illegible]		COMP	✓	
[illegible] AT Headbrite	1	[illegible]		COMP	✓	
[illegible] After Aeration	1	[illegible]		COMP	✓	
WTP Final Effluent	1	[illegible]		COMP	✓	

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[illegible]	[illegible]	[illegible]	11-6-08 10:05	[illegible]	11-6-08 10:35	[illegible]	11-6-08 1039
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time	Temperature Upon Receipt °C			

FAX Results Email Results

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225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

REIC

Improving the environment, one client at a time...

November 18, 2008

MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0811918

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 1 sample(s) on 11/13/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

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Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0811918**
Date: **11/18/2008**

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. **Analytical Results** **Date:** *18-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811918	**Lab ID**	0811918-01A
Client Sample ID:	FINAL EFFLUENT	**DateReceived:**	11/13/2008		
Project:	CHLORIDES	**Collection Date:**	11/6/2008		
Site ID:		**Matrix:**	WASTE WATER		

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	95.5	mg/L		NA	5.00	11/15/2008 1:23:00 AM

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

REIC

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: riabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO. 247391

CLIENT: Western VA Water Authority
ADDRESS: 1502 Brewbacker Ave SE
CITY/STATE/ZIP: Roanoke 24014
BILL TO: Same
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON:
TELEPHONE #:
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE:
PROJECT ID:
SAMPLER: Lisa Workman

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ___
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

PRESERVATIVE CODES — NOTE PRESERVATIVES → 0

ANALYSIS REQUESTED & METHOD: Chlorine

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	Chlorine	COMMENTS
Final Effluent	1	11-13-08 11:00		Comp	✓	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Lisa Workman	11-13-08			Denis Richardson	11/13/08 10:53	Elin Brust	11/13/08 1053
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival 2.5 °C			

☐ FAX Results ☐ Email Results

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reielabs.com

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November 18, 2008

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MR. MARTIN SENSABAUGH
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: CHLORIDES

Order No.: 0811774

Dear MR. MARTIN SENSABAUGH:

REI Consultants, Inc. received 1 sample(s) on 11/12/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304 255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0811774**
Date: **11/18/2008**

CLIENT: WESTERN VA WATER WWTP
Project: CHLORIDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

If you have any questions please contact the project manager whose name is listed above.

REI Consultants, Inc. **Analytical Results** **Date:** *18-Nov-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0811774 **Lab ID** 0811774-01A
Client Sample ID:	FINAL EFFLUENT	**DateReceived:**	11/12/2008
Project:	CHLORIDES	**Collection Date:**	11/7/2008 8:48:00 AM
Site ID:		**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY			**E300.0**			Analyst: **CC**
Chloride	94.5	mg/L		NA	5.00	11/14/2008 2:10:00 AM

Key:	MCL	Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	MDL	Minimum Detection Limit	E	Estimated Value above quantitation range
	NA	Not Applicable	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the PQL or MDL	S	Spike/Surrogate Recovery outside accepted recovery limit
	PQL	Practical Quantitation Limit	*	Value exceeds Maximum Contaminant Level
	TIC	Tentatively Identified Compound, Estimated Concentrati		

REI Consultants, Inc.
225 Industrial Park Rd.
P.O. Box 286, Beaver, WV 25813
Phone: 304-255-2500 or 800-999-0105
FAX: 304-255-2572
e-mail: rlabs@reiclabs.com

CHAIN OF CUSTODY RECORD NO. 247779

CLIENT: WVWA-WFCP
ADDRESS: 1502 Brownlee Ave. SE
CITY/STATE/ZIP: Roanoke, VA 24014
BILL TO:
CITY/STATE/ZIP:
PURCHASE ORDER #
QUOTE #

CONTACT PERSON: Marty Sinsabaugh
TELEPHONE #: 853-5274
FAX #:
E-MAIL ADDRESS:
SITE ID & STATE:
PROJECT ID:
SAMPLER: Lisa Workman

SAMPLE LOG AND ANALYSIS REQUEST

TURNAROUND TIME REQUIREMENTS
REGULAR: ✓
*RUSH: ___ 5-Day ___ 3-Day ___ 2-Day ___ 1-Day
*Rush work needs prior Laboratory approval and will include surcharges

PRESERVATIVES
0 No Preservative
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide
6 Zinc Acetate
7 EDTA

NOTE PRESERVATIVES →

PRESERVATIVE CODES

ANALYSIS REQUESTED & METHOD: Chloride

SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MATRIX	SAMPLE COMP / GRAB	Chloride	COMMENTS
Final Effluent	1 Plastic	11-06-08 8:48 to 11-07-08 8:48	WW	Comp	✓	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Lisa Workman	11-11-08 1:30pm	[signature]	11-11-08 1:30pm	[signature]	11-11-08 1:45pm	Katrina Wood	11-11-08 1346

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Temperature Upon Arrival	°C
				1.0	

___ FAX Results ___ Email Results

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ATTACHMENT C

CLEAN METALS MONITORING RESULTS

HRSD
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www.hrsd.com

Commissioners
R. Tyler Blond, III
Chair
Vishnu K. Lakdawala, PhD
Vice-Chair
Parris D. Carson
B. Anne Davis
Douglas E. Miller
Frederick N. Blofson, CPA, PFS
Gerald S. Johnson
Michael E. Glenn

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York

November 19, 2008

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NOV 26 2008
DEQ - BRRO

R. Lawrence Hoffman
Director of Environmental Services
Olver Incorporated
1116 South Main Street
Blacksburg, VA 24060

RE: Special Study - Western Virginia Water Authority

Dear Lawrence:

Enclosed are the analytical results and chain of custody records for the October 29 through November 7, 2008 sampling event.

Should you have any questions, please feel free to contact me at (757) 460-4247.

Sincerely,

Danny Barker
Environmental Scientist

DLB/cmr

Enclosures

HRSD
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ANALYTICAL REPORT

RECEIVED NOV 2 0 2008 ENVIRO-PROJ

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 910381
Project Code: WVWA
Sample Point: FB
Sample Date: 10/29/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1039
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1034
Zinc Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/16/08	1247
Zinc Total	EPA200.8	ug/L	0.8	0.5	CBATO	11/17/08	1034

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhe Date: 111908

HRSD
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www.hrsd.com

ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 910382
Project Code: WVWA
Sample Point: FNE
Sample Date: 10/29/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	4.7	0.5	CBATO	11/17/08	1132
Copper Total	EPA200.8	ug/L	4.9	0.5	CBATO	11/17/08	1110
Zinc Dissolved	EPA200.8	ug/L	15.8	0.5	CBATO	11/16/08	1449
Zinc Total	EPA200.8	ug/L	16.3	0.5	CBATO	11/16/08	1431

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

CHAIN OF CUSTODY

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-8586

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ____ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (55)	Total Clean Metals (6)						HRSD Use Only: Preav'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	10-28-08 to 10-29-08	09:06 to 09:06	LB	L	C	1	1						✓	2
Final Effluent	WWA	FNE	10/28/08 to 10/29/08	9:06 to 9:06	LB	L	C	1	1						✓	2

COMMENTS:

For Ground Water Use Only
Temp. Blank 1 ____ °C
Temp. Blank 2 ____ °C

Relinquished by / Signature		Date/Time 10/29/08 9:59AM
Received by / Signature		Date/Time 10/29/08 0957
Relinquished by / Signature		Date/Time 10/30/08 0701
Received by / Signature		Date/Time 10/30/08 0701
Relinquished by / Signature		Date/Time
Received by / Signature		Date/Time
Relinquished by / Signature		Date/Time
Received by / Signature		Date/Time

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int LB

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int GH

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

HRSD
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www.hrsd.com

ANALYTICAL REPORT

RECEIVED NOV 23 2008 DEQ - BRRO

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908975
Project Code: WVWA
Sample Point: FB
Sample Date: 10/30/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1048
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1043
Zinc Dissolved	EPA200.8	ug/L	0.6	0.5	CBATO	11/17/08	1048
Zinc Total	EPA200.8	ug/L	0.7	0.5	CBATO	11/17/08	1043

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRLee Date: 111908

HRSD
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www.hrsd.com

ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908976
Project Code: WVWA
Sample Point: FNE
Sample Date: 10/30/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	4.9	0.5	CBATO	11/17/08	1142
Copper Total	EPA200.8	ug/L	5.2	0.5	CBATO	11/17/08	1137
Zinc Dissolved	EPA200.8	ug/L	16.3	0.5	CBATO	11/16/08	1512
Zinc Total	EPA200.8	ug/L	15.9	0.5	CBATO	11/16/08	1454

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhe Date: 111908

HAMPTON ROADS SANITATION DISTRICT

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project In Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (S5)	Total Clean Metals (S)						HRSD Use Only: Preav'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	10/30/08 10/30/08	9:30AM 9:30AM	LB	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	10/30/08 10/30/08	9:05AM 9:05AM	LB	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank ____ °C
Trip Blank ____ °C

Relinquished by / Signature	Date/Time 10/30/08 9:30AM	
Received by / Signature	Date/Time 10/30/08 9:30AM	
Relinquished by / Signature	Date/Time 11-13-08 8:00AM	
Received by / Signature	Date/Time 11-13-08 8:00AM	
Relinquished by / Signature	Date/Time 11-13-08 2:20PM	
Received by / Signature	Date/Time 11/13/08 1420	
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int LB

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN⁻ (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int ____

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

RECEIVED NOV 26 2008 DEQ

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www.hrsd.com

ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908961
Project Code: WVWA
Sample Point: FB
Sample Date: 10/31/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1057
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1052
Zinc Dissolved*	EPA200.8	ug/L	1.6	0.5	CBATO	11/17/08	1057
Zinc Total*	EPA200.8	ug/L	1.2	0.5	CBATO	11/17/08	1052

Notes

[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*
ZINC DISSOLVED: Value verified by redigestion and analysis of sample.
ZINC TOTAL: Value verified by redigestion and analysis of sample.

Authorization: PR Lee **Date:** 111908

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908977
Project Code: WVWA
Sample Point: FNE
Sample Date: 10/31/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	5.5	0.5	CBATO	11/17/08	1153
Copper Total	EPA200.8	ug/L	5.7	0.5	CBATO	11/17/08	1148
Zinc Dissolved	EPA200.8	ug/L	19.5	0.5	CBATO	11/18/08	1555
Zinc Total	EPA200.8	ug/L	22.2	0.5	CBATO	11/18/08	1550

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee **Date:** 111908

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1432 AIR RAIL AVENUE
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TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (65)	Total Clean Metals (5)						HRSD Use Only: Prsv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	10/31/08 to 10/31/08	9:00AM to 9:00AM	LB	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	10/31/08 to 10/31/08	9:00AM to 9:00AM	LB	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank 1
Temp Blank 2

Relinquished by / Signature	Date/Time	10/31/08 9:26AM
Received by / Signature	Date/Time	10/31/08 9:26AM
Relinquished by / Signature	Date/Time	11-8-08 8:00AM
Received by / Signature	Date/Time	11-13-08 8:00AM
Relinquished by / Signature	Date/Time	11-13-08 2:20PM
Received by / Signature	Date/Time	11/13/08 1420
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int LB

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN⁻ (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int GJ

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908962
Project Code: WVWA
Sample Point: FB
Sample Date: 11/01/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1121
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/17/08	1158
Zinc Dissolved	EPA200.8	ug/L	0.8	0.5	CBATO	11/16/08	1323
Zinc Total	EPA200.8	ug/L	0.6	0.5	CBATO	11/16/08	1318

Notes

[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee **Date:** 111908

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ANALYTICAL REPORT

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Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908978
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/01/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	5.3	0.5	CBATO	11/18/08	1144
Copper Total	EPA200.8	ug/L	5.6	0.5	CBATO	11/18/08	1157
Zinc Dissolved	EPA200.8	ug/L	23.6	0.5	CBATO	11/16/08	1544
Zinc Total	EPA200.8	ug/L	22.6	0.5	CBATO	11/16/08	1526

Notes

[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

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FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (65)	Total Clean Metals (5)						HRSD Use Only: Preav'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	10-31-08 11-1-08	9:05AM	MD	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	10-31-08 11-1-08	9:05 AM	MD	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank 1 ____ °C
Temp Blank 2 ____ °C

Relinquished by / Signature: Michael H. Doss	Date/Time: 11-1-08 - 10:15 AM	
Received by / Signature: Lisa Workman	Date/Time: 11-1-08 10:15AM	
Relinquished by / Signature: Lisa Workman	Date/Time: 11-13-08 8:00am	
Received by / Signature: Michael H. Doss	Date/Time: 11-13-08 8:02AM	
Relinquished by / Signature: Michael H. Doss	Date/Time: 11-13-08 2:20PM	
Received by / Signature: [illegible]	Date/Time: 11/13/08 1420	
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int MHD

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908963
Project Code: WVWA
Sample Point: FB
Sample Date: 11/02/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1130
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1126
Zinc Dissolved	EPA200.8	ug/L	1.4	0.5	CBATO	11/16/08	1332
Zinc Total	EPA200.8	ug/L	0.6	0.5	CBATO	11/16/08	1328

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

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ANALYTICAL REPORT

RECEIVED NOV 26 2008 DEQ - BRRO

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908979
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/02/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	5.7	0.5	CBATO	11/18/08	1220
Copper Total	EPA200.8	ug/L	5.9	0.5	CBATO	11/18/08	1215
Zinc Dissolved	EPA200.8	ug/L	20.7	0.5	CBATO	11/16/08	1553
Zinc Total	EPA200.8	ug/L	21.0	0.5	CBATO	11/16/08	1548

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRlee Date: 111908

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TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (55)	Total Clean Metals (5)						HRSD Use Only: Presv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	11-1-08 11-2-08	9:05AM 9:05AM	LW	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	11-1-08 11-2-08	9:05AM 9:53	LW	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp. Blank: ____
Temp. Blank: ____

Relinquished by / Signature	Date/Time	11-02-08 09:32
Received by / Signature	Date/Time	11-02-08 09:32
Relinquished by / Signature	Date/Time	11-13-08 08:30AM
Received by / Signature	Date/Time	11-13-08 8:30AM
Relinquished by / Signature	Date/Time	11-13-08 2:20PM
Received by / Signature	Date/Time	11/13/08 1420
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int ____

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN⁻ (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int ____

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908964
Project Code: WVWA
Sample Point: FB
Sample Date: 11/03/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1139
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1135
Zinc Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/16/08	1341
Zinc Total	EPA200.8	ug/L	0.5	0.5	CBATO	11/16/08	1337

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PR Lee Date: 111908

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908980
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/03/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	5.8	0.5	CBATO	11/18/08	1355
Copper Total	EPA200.8	ug/L	6.0	0.5	CBATO	11/18/08	1224
Zinc Dissolved	EPA200.8	ug/L	17.7	0.5	CBATO	11/16/08	1611
Zinc Total	EPA200.8	ug/L	19.2	0.5	CBATO	11/16/08	1607

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRLee Date: 11/19/08

HAMPTON ROADS SANITATION DISTRICT

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TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (68)	Total Clean Metals (6)						HRSD Use Only: Presv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	11-02-08 to 11-03-08	8:53-8:53	LW	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	11-02-08 to 11-03-08	8:53-8:53	LW	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank ____ °C
Temp Blank ____ °C

Relinquished by / Signature: Lisa Wolma	Date/Time: 11-13-08 8:00 AM MED
Received by / Signature: Michael H. Dyas	Date/Time: 11-13-08 8:10 AM
Relinquished by / Signature: Michael H. Dyas	Date/Time: 11-13-08 2:30 PM
Received by / Signature: [illegible]	Date/Time: 11/13/08 1420
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int. [illegible]

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int. [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

RECEIVED NOV 26 2008 DEQ - BRO

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908965
Project Code: WVWA
Sample Point: FB
Sample Date: 11/04/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1314
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1310
Zinc Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/16/08	1350
Zinc Total	EPA200.8	ug/L	0.5	0.5	CBATO	11/16/08	1346

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908981
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/04/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	6.1	0.5	CBATO	11/18/08	1417
Copper Total	EPA200.8	ug/L	6.4	0.5	CBATO	11/18/08	1359
Zinc Dissolved	EPA200.8	ug/L	18.4	0.5	CBATO	11/16/08	1634
Zinc Total	EPA200.8	ug/L	21.8	0.5	CBATO	11/16/08	1616

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

HAMPTON ROADS SANITATION DISTRICT

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (55)	Total Clean Metals (8)						HRSD Use Only: Presv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	11-03-08 to 11-04-08	9:02 to 9:03	LW	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	11-03-08 to 11-04-08	9:02 to 9:03	LW	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp. Blank
Temp. Blank

Relinquished by / Signature: Lisa Wordsman	Date/Time: 11-13-08	5:00 pm
Received by / Signature: Michael Dodd	Date/Time: 11-13-08	8:00 AM
Relinquished by / Signature: Michael Dodd	Date/Time: 11-13-08	2:00 PM
Received by / Signature: [illegible]	Date/Time: 11/13/08	1420
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	
Relinquished by / Signature	Date/Time	
Received by / Signature	Date/Time	

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int [illegible]

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

RECEIVED
NOV 25 2008
REG - BRRO

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908966
Project Code: WVWA
Sample Point: FB
Sample Date: 11/05/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1323
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1319
Zinc Dissolved	EPA200.8	ug/L	0.9	0.5	CBATO	11/18/08	1323
Zinc Total	EPA200.8	ug/L	1.5	0.5	CBATO	11/16/08	1355

Notes

[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: FR Lee **Date:** 111908

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ANALYTICAL REPORT

RECEIVED NOV 2 DEQ

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908982
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/05/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	6.4	0.5	CBATO	11/18/08	1426
Copper Total	EPA200.8	ug/L	6.7	0.5	CBATO	11/18/08	1422
Zinc Dissolved	EPA200.8	ug/L	23.3	0.5	CBATO	11/16/08	1643
Zinc Total	EPA200.8	ug/L	27.6	0.5	CBATO	11/16/08	1638

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee Date: 111908

HAMPTON ROADS SANITATION DISTRICT

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DB Clean Metals (65)	Total Clean Metals (6)						HRSD Use Only: Presv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WVWA	FB	11-05-08	[illegible]	LW	L	C	1	1						✓	2
Final Effluent	WVWA	FNE	11-05-08	[illegible]	LW	L	C	1	1						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank 1 ____ °C
Temp Blank 2 ____ °C

Relinquished by / Signature: Lisa Wolfram	Date/Time: 11-13-08 [illegible]
Received by / Signature: Michael Dix	Date/Time: 11-13-08 8:20 Am
Relinquished by / Signature: Michael Dix	Date/Time: 11-13-08 2:20 Pm
Received by / Signature: [illegible]	Date/Time: 11-13-08 [illegible] 1420
Relinquished by / Signature	Date/Time: (1420)
Received by / Signature	Date/Time
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int LW

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN⁻ (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908971
Project Code: WVWA
Sample Point: FB
Sample Date: 11/06/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1332
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1328
Zinc Dissolved	EPA200.8	ug/L	1.1	0.5	CBATO	11/16/08	1418
Zinc Total	EPA200.8	ug/L	0.9	0.5	CBATO	11/18/08	1328

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRlee Date: 111908

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ANALYTICAL REPORT

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Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908972
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/06/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	6.3	0.5	CBATO	11/18/08	1445
Copper Total	EPA200.8	ug/L	6.6	0.5	CBATO	11/18/08	1440
Zinc Dissolved	EPA200.8	ug/L	22.4	0.5	CBATO	11/16/08	1701
Zinc Total	EPA200.8	ug/L	31.7	0.5	CBATO	11/16/08	1648

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRLee **Date:** 11/19/08

HAMPTON ROADS SANITATION DISTRICT

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-6586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project In Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (55)	Total Clean Metals (5)						HRSD Use Only: Preav'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	11-06-08 to 11-06-08	8:50-8:50	LW	L	C	1	1						✓	2
Final Effluent	WWA	FNE	11-05-08 to 11-06-08	8:30-8:50	LW	L	C	1	1						✓	2

COMMENTS:

For Ground Water Use Only:
Temp. Blank #1 ____ °C
Temp. Blank #2 ____ °C

Relinquished by / Signature: Lisa Workman	Date/Time: 11-13-08 8:00 AM
Received by / Signature: Michael A. Dale	Date/Time: 11-13-08 8:00 AM
Relinquished by / Signature: Michael A. Dale	Date/Time: 11-13-08 2:20 PM
Received by / Signature: [illegible]	Date/Time: 11/13/08 1400
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int LW

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN^- (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Field Blank
Sample Number: 908973
Project Code: WVWA
Sample Point: FB
Sample Date: 11/07/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1350
Copper Total	EPA200.8	ug/L	< 0.5	0.5	CBATO	11/18/08	1346
Zinc Dissolved	EPA200.8	ug/L	0.8	0.5	CBATO	11/16/08	1427
Zinc Total	EPA200.8	ug/L	0.6	0.5	CBATO	11/16/08	1422

Notes

[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhee

Date: 111908

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ANALYTICAL REPORT

Project: Western Virginia Water Authority
Customer Sample ID: Final Effluent
Sample Number: 908974
Project Code: WVWA
Sample Point: FNE
Sample Date: 11/07/08

Analyte	Method	Unit	Result	Report Limit[1]	Analyst	Analysis Date	Analysis Time
Copper Dissolved	EPA200.8	ug/L	6.6	0.5	CBATO	11/18/08	1507
Copper Total	EPA200.8	ug/L	6.7	0.5	CBATO	11/18/08	1503
Zinc Dissolved	EPA200.8	ug/L	20.6	0.5	CBATO	11/16/08	1724
Zinc Total	EPA200.8	ug/L	21.7	0.5	CBATO	11/18/08	1503

Notes
[1] *Report Limit is lowest concentration at which quantitation is demonstrated.*

Authorization: PRhe **Date:** 111908

HAMPTON ROADS SANITATION DISTRICT

CENTRAL ENVIRONMENTAL LABORATORY
1432 AIR RAIL AVENUE
VIRGINIA BEACH, VA 23455
TEL: 757-460-4214
FAX: 757-460-8586

CHAIN OF CUSTODY

PROJECT NAME/CODE: Western Virginia Water Authority

ANALYSES REQUESTED, CGN & NUMBER OF CONTAINERS

Project in Lims? Yes ✓ No ____

CUSTOMER SAMPLE ID	HRSD Use Only: PROJECT CODE	HRSD Use Only: SAMPLE POINT	DATE	TIME	SAMPLED BY	Circle One: MATRIX	Circle One: SAMPLE TYPE	DS Clean Metals (58)	Total Clean Metals (6)						HRSD Use Only: Presv'd Checked	HRSD Use Only: CONT. COUNT
Field Blank	WWA	FB	11-06-08 11-07-08	8:48 8:48	LW	L	C	1 ✓	1 ✓						✓	2
Final Effluent	WWA	FNE	11-06-08 11-07-08	8:48 8:48	LW	L	C	1 ✓	1 ✓						✓	2

COMMENTS:

For Ground Water Use Only
Temp Blank 1
Temp Blank 2

Relinquished by / Signature: Alan Workman	Date/Time: 11-13-08 - 8:00 AM
Received by / Signature: Michael Pope	Date/Time: 11-13-08 8:00AM
Relinquished by / Signature: Michael Pope	Date/Time: 11-13-08 2:20PM
Received by / Signature: [illegible]	Date/Time: 11/13/08 12:20
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time
Relinquished by / Signature	Date/Time
Received by / Signature	Date/Time

Temp. Requirement

Where required, submitted samples were transported in coolers maintained at ≤ 6 °C.

Yes ✓ No ____

Int [illegible]

***Preservatives**

- *Hg, Metals (pH<2 - HNO3) (Clean metals check in section)
- *O&G (pH<2 - HCl, check in section) & store ≤ 6 °C
- CN (pH>12 - NaOH) & store ≤ 6 °C
- *Sulfide (pH>9 - NaOH+ZnAc) & store ≤ 6 °C
- *Micro ($Na_2S_2O_3$ + EDTA) & store < 10 °C
- *COD, NUT, Phenols (pH<2 - H_2SO_4) & store ≤ 6 °C
- *TOC (pH<2 - H_3PO_4) & store ≤ 6 °C
- *BOD, TSS, TVSS, Turbidity, Surfactant, Sulfate store ≤ 6 °C
- *NUT Non Acidified, Conductivity, Organics store ≤ 6 °C
- *Cr (VI) (pH 9.3 - 9.7 - $(NH_4)_2SO_4$) & store ≤ 6 °C

All sample(s) met proper *preservation requirements. Yes ✓ No ____ Int [illegible]

Sample Type: B=Batch, C=Composite, G=Grab Matrix: L= Liquid , S = Solid CGN: Container Group Number

NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
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Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0804349**
Date: **4/30/2008**

CLIENT: WESTERN VA WATER WWTP
Project: FIRST SCAN FOR THE VPDES APP

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

REI Consultants, Inc. Analytical Results

Date: *30-Apr-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0804349
Client Sample ID:	FEB 2008-COMP	**Lab ID:**	0804349-01A
Project:	FIRST SCAN FOR THE VPDES APP	**Collection Date:**	4/3/2008 7:35:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			**E200.7**			Analyst: **JD**
Antimony	ND	mg/L		0.00500	0.0200	4/7/2008 12:22:00 PM
Arsenic	ND	mg/L		0.00500	0.0200	4/7/2008 12:22:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	4/7/2008 12:22:00 PM
Chromium	ND	mg/L		0.00100	0.0050	4/7/2008 12:22:00 PM
Copper	0.0084	mg/L		0.00200	0.0050	4/7/2008 12:22:00 PM
Lead	ND	mg/L		0.00300	0.0100	4/7/2008 12:22:00 PM
Silver	ND	mg/L		0.00100	0.0050	4/7/2008 12:22:00 PM
Zinc	0.0303	mg/L		0.00300	0.0200	4/7/2008 12:22:00 PM
HARDNESS			**SM2340 B**			Analyst: **JD**
Hardness, Total (As CaCO3)	188	mg/L		1.00	1.00	4/7/2008 12:22:00 PM
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
Acenaphthene	ND	mg/L		0.00047	0.0134	4/9/2008 2:12:00 AM
Anthracene	ND	mg/L		0.00070	0.0134	4/9/2008 2:12:00 AM
Benzidine	ND	mg/L		0.00191	0.0134	4/9/2008 2:12:00 AM
Benzo(a)anthracene	ND	mg/L		0.00060	0.0134	4/9/2008 2:12:00 AM
Benzo(a)pyrene	ND	mg/L		0.00202	0.0134	4/9/2008 2:12:00 AM
Benzo(k)fluoranthene	ND	mg/L		0.00215	0.0134	4/9/2008 2:12:00 AM
Bis(2-chloroethyl)ether	ND	mg/L		0.00059	0.0134	4/9/2008 2:12:00 AM
Bis(2-chloroisopropyl)ether	ND	mg/L		0.00026	0.0134	4/9/2008 2:12:00 AM
Bis(2-ethylhexyl)phthalate	ND	mg/L		0.00807	0.0134	4/9/2008 2:12:00 AM
Butyl benzyl phthalate	ND	mg/L		0.00062	0.0134	4/9/2008 2:12:00 AM
2-Chloronaphthalene	ND	mg/L		0.00066	0.0134	4/9/2008 2:12:00 AM
2-Chlorophenol	ND	mg/L		0.00132	0.0134	4/9/2008 2:12:00 AM
Chrysene	ND	mg/L		0.00042	0.0134	4/9/2008 2:12:00 AM
Dibenzo(a,h)anthracene	ND	mg/L		0.00051	0.0134	4/9/2008 2:12:00 AM
Di-n-butyl phthalate	ND	mg/L		0.00403	0.0134	4/9/2008 2:12:00 AM
1,2-Dichlorobenzene	ND	mg/L		0.00065	0.0134	4/9/2008 2:12:00 AM
1,3-Dichlorobenzene	ND	mg/L		0.00070	0.0134	4/9/2008 2:12:00 AM
1,4-Dichlorobenzene	ND	mg/L		0.00050	0.0134	4/9/2008 2:12:00 AM
3,3'-Dichlorobenzidine	ND	mg/L		0.00065	0.0134	4/9/2008 2:12:00 AM
2,4-Dichlorophenol	ND	mg/L		0.00214	0.0134	4/9/2008 2:12:00 AM
Diethyl phthalate	ND	mg/L		0.00039	0.0134	4/9/2008 2:12:00 AM
Dimethyl phthalate	ND	mg/L		0.00062	0.0134	4/9/2008 2:12:00 AM
2,4-Dimethylphenol	ND	mg/L		0.00133	0.0134	4/9/2008 2:12:00 AM
2,4-Dinitrophenol	ND	mg/L		0.00229	0.0134	4/9/2008 2:12:00 AM
2,4-Dinitrotoluene	ND	mg/L		0.00067	0.0134	4/9/2008 2:12:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *30-Apr-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0804349
Client Sample ID:	FEB 2008-COMP	**Lab ID:**	0804349-01A
Project:	FIRST SCAN FOR THE VPDES APP	**Collection Date:**	4/3/2008 7:35:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
1,2-Diphenylhydrazine	ND	mg/L		0.00032	0.0134	4/9/2008 2:12:00 AM
Fluoranthene	ND	mg/L		0.00056	0.0134	4/9/2008 2:12:00 AM
Fluorene	ND	mg/L		0.00051	0.0134	4/9/2008 2:12:00 AM
Hexachlorobenzene	ND	mg/L		0.00117	0.0134	4/9/2008 2:12:00 AM
Hexachlorobutadiene	ND	mg/L		0.00079	0.0134	4/9/2008 2:12:00 AM
Hexachlorocyclopentadiene	ND	mg/L		0.00077	0.0134	4/9/2008 2:12:00 AM
Hexachloroethane	ND	mg/L		0.00040	0.0134	4/9/2008 2:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	mg/L		0.00046	0.0134	4/9/2008 2:12:00 AM
Isophorone	ND	mg/L		0.00058	0.0134	4/9/2008 2:12:00 AM
Naphthalene	ND	mg/L		0.00055	0.0134	4/9/2008 2:12:00 AM
Nitrobenzene	ND	mg/L		0.00044	0.0134	4/9/2008 2:12:00 AM
N-Nitrosodimethylamine	ND	mg/L		0.00067	0.0134	4/9/2008 2:12:00 AM
N-Nitrosodiphenylamine	ND	mg/L		0.00078	0.0134	4/9/2008 2:12:00 AM
N-Nitrosodi-n-propylamine	ND	mg/L		0.00065	0.0134	4/9/2008 2:12:00 AM
Pentachlorophenol	ND	mg/L		0.00393	0.0134	4/9/2008 2:12:00 AM
Phenol	ND	mg/L		0.00104	0.0134	4/9/2008 2:12:00 AM
Pyrene	ND	mg/L		0.00055	0.0134	4/9/2008 2:12:00 AM
1,2,4-Trichlorobenzene	ND	mg/L		0.00058	0.0134	4/9/2008 2:12:00 AM
2,4,6-Trichlorophenol	ND	mg/L		0.00085	0.0134	4/9/2008 2:12:00 AM
Surr: 2-Fluorophenol	56.7	%REC			21-110	4/9/2008 2:12:00 AM
Surr: Phenol-d5	39.8	%REC			10-110	4/9/2008 2:12:00 AM
Surr: 2,4,6-Tribromophenol	121	%REC			10-123	4/9/2008 2:12:00 AM
Surr: Nitrobenzene-d5	103	%REC			35-114	4/9/2008 2:12:00 AM
Surr: 2-Fluorobiphenyl	91.2	%REC			43-116	4/9/2008 2:12:00 AM
Surr: 4-Terphenyl-d14	84.9	%REC			33-141	4/9/2008 2:12:00 AM

NOTES:

The CCV for 2,4-Dinitrophenol exceeded REIC control limits indicating a high bias. Since the analyte result was ND, this exceedance does not adversely impact data usability.

ANIONS BY ION CHROMATOGRAPHY			**SM4110B**			Analyst: **SB**
Nitrogen, Nitrate-Nitrite	9.13	mg/L		0.030	0.10	4/8/2008 6:19:00 PM
AMMONIA NITROGEN			**E350.1**			Analyst: **BA**
Nitrogen, Ammonia (As N)	0.31	mg/L		0.030	0.10	4/9/2008 10:00:00 AM
TOTAL DISSOLVED SOLIDS			**SM2540 C**			Analyst: **GV**
Total Dissolved Solids	451	mg/L		1.0	1	4/4/2008 8:30:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *30-Apr-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0804349
Client Sample ID:	FEB 2008-GRAB	**Lab ID:**	0804349-02A
Project:	FIRST SCAN FOR THE VPDES APP	**Collection Date:**	4/3/2008 7:40:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**E624**			Analyst: **AS**
Benzene	ND	µg/L		2.88	5.00	4/4/2008 1:35:00 PM
Acrolein	ND	µg/L		45.3	50.0	4/4/2008 1:35:00 PM
Acrylonitrile	ND	µg/L		34.1	50.0	4/4/2008 1:35:00 PM
Bromoform	ND	µg/L		4.65	5.00	4/4/2008 1:35:00 PM
Bromomethane	ND	µg/L		2.48	5.00	4/4/2008 1:35:00 PM
Carbon tetrachloride	ND	µg/L		2.30	5.00	4/4/2008 1:35:00 PM
Chlorobenzene	ND	µg/L		4.53	5.00	4/4/2008 1:35:00 PM
Chloroform	9.80	µg/L		3.01	5.00	4/4/2008 1:35:00 PM
Dibromochloromethane	ND	µg/L		4.98	5.00	4/4/2008 1:35:00 PM
1,2-Dichloroethane	ND	µg/L		3.62	5.00	4/4/2008 1:35:00 PM
1,1-Dichloroethene	ND	µg/L		0.935	5.00	4/4/2008 1:35:00 PM
trans-1,2-Dichloroethene	ND	µg/L		1.94	5.00	4/4/2008 1:35:00 PM
1,2-Dichloropropane	ND	µg/L		3.93	5.00	4/4/2008 1:35:00 PM
cis-1,3-Dichloropropene	ND	µg/L		3.75	5.00	4/4/2008 1:35:00 PM
trans-1,3-Dichloropropene	ND	µg/L		4.55	5.00	4/4/2008 1:35:00 PM
Ethylbenzene	ND	µg/L		4.16	5.00	4/4/2008 1:35:00 PM
Methylene chloride	ND	µg/L		1.93	5.00	4/4/2008 1:35:00 PM
Tetrachloroethene	ND	µg/L		3.22	5.00	4/4/2008 1:35:00 PM
Toluene	ND	µg/L		3.84	5.00	4/4/2008 1:35:00 PM
1,1,2-Trichloroethane	ND	µg/L		4.50	5.00	4/4/2008 1:35:00 PM
Trichloroethene	ND	µg/L		3.42	5.00	4/4/2008 1:35:00 PM
Vinyl chloride	ND	µg/L		1.98	5.00	4/4/2008 1:35:00 PM
Surr: Dibromofluoromethane	101	%REC			80-120	4/4/2008 1:35:00 PM
Surr: 1,2-Dichloroethane-d4	97.7	%REC			80-120	4/4/2008 1:35:00 PM
Surr: Toluene-d8	97.8	%REC			88-110	4/4/2008 1:35:00 PM
Surr: 4-Bromofluorobenzene	98.1	%REC			86-115	4/4/2008 1:35:00 PM
OIL AND GREASE			**E1664**			Analyst: **JL**
Oil & Grease	ND	mg/L		2.00	5.0	4/11/2008 12:00:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

May 30, 2008

JANIS RICHARDSON
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: SECOND SCAN FOR VPDES

Order No.: 0805F39

Dear JANIS RICHARDSON:

REI Consultants, Inc. received 2 sample(s) on 5/22/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0805F39**
Date: **5/30/2008**

CLIENT: WESTERN VA WATER WWTP
Project: SECOND SCAN FOR VPDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

REI Consultants, Inc. Analytical Results

Date: *30-May-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0805F39
Client Sample ID:	OUTFALL 001 COMP	**Lab ID:**	0805F39-01A
Project:	SECOND SCAN FOR VPDES	**Collection Date:**	5/22/2008 7:15:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			**E200.7**			Analyst: **JD**
Antimony	ND	mg/L		0.0050	0.020	5/27/2008 2:59:00 PM
Arsenic	ND	mg/L		0.0050	0.020	5/27/2008 2:59:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	5/27/2008 2:59:00 PM
Chromium	ND	mg/L		0.0010	0.0050	5/27/2008 2:59:00 PM
Copper	0.0085	mg/L		0.0020	0.0050	5/27/2008 2:59:00 PM
Lead	ND	mg/L		0.0030	0.010	5/27/2008 2:59:00 PM
Silver	ND	mg/L		0.0010	0.0050	5/27/2008 2:59:00 PM
Zinc	0.025	mg/L		0.0030	0.020	5/27/2008 2:59:00 PM

NOTES:

The LCS for [Sb] exceeded REIC control limits indicating a high bias. Since the analyte result was ND, this exceedance does not adversely impact data usability.

HARDNESS			**SM2340 B**			Analyst: **JD**
Hardness, Total (As CaCO3)	188	mg/L		1.00	1.00	5/27/2008 2:59:00 PM
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
Acenaphthene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Anthracene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Benzidine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Benzo(a)anthracene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Benzo(a)pyrene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Benzo(k)fluoranthene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Bis(2-chloroethyl)ether	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Bis(2-chloroisopropyl)ether	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Bis(2-ethylhexyl)phthalate	0.0292	mg/L	B	0.00628	0.0105	5/28/2008 7:36:00 AM
Butyl benzyl phthalate	ND	mg/L		0.00523	0.0105	5/28/2008 7:36:00 AM
2-Chloronaphthalene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
2-Chlorophenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Chrysene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Dibenzo(a,h)anthracene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Di-n-butyl phthalate	0.0032	mg/L	JB	0.00314	0.0105	5/28/2008 7:36:00 AM
1,2-Dichlorobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
1,3-Dichlorobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
1,4-Dichlorobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
3,3'-Dichlorobenzidine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
2,4-Dichlorophenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Diethyl phthalate	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Dimethyl phthalate	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *30-May-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0805F39
Client Sample ID:	OUTFALL 001 COMP	**Lab ID:**	0805F39-01A
Project:	SECOND SCAN FOR VPDES	**Collection Date:**	5/22/2008 7:15:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
2,4-Dimethylphenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
2,4-Dinitrophenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
2,4-Dinitrotoluene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
1,2-Diphenylhydrazine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Fluoranthene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Fluorene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Hexachlorobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Hexachlorobutadiene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Hexachlorocyclopentadiene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Hexachloroethane	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Indeno(1,2,3-cd)pyrene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Isophorone	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Naphthalene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Nitrobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
N-Nitrosodimethylamine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
N-Nitrosodiphenylamine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
N-Nitrosodi-n-propylamine	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Pentachlorophenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Phenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Pyrene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
1,2,4-Trichlorobenzene	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
2,4,6-Trichlorophenol	ND	mg/L		0.00209	0.0105	5/28/2008 7:36:00 AM
Surr: 2-Fluorophenol	55.8	%REC			21-110	5/28/2008 7:36:00 AM
Surr: Phenol-d5	36.2	%REC			10-110	5/28/2008 7:36:00 AM
Surr: 2,4,6-Tribromophenol	107	%REC			10-123	5/28/2008 7:36:00 AM
Surr: Nitrobenzene-d5	101	%REC			35-114	5/28/2008 7:36:00 AM
Surr: 2-Fluorobiphenyl	87.2	%REC			43-116	5/28/2008 7:36:00 AM
Surr: 4-Terphenyl-d14	87.7	%REC			33-141	5/28/2008 7:36:00 AM
ANIONS BY ION CHROMATOGRAPHY			**SM4110B**			Analyst: **SB**
Nitrogen, Nitrate-Nitrite	11.9	mg/L		0.030	0.10	5/28/2008 11:58:00 AM
AMMONIA NITROGEN			**E350.1**			Analyst: **BA**
Nitrogen, Ammonia (As N)	ND	mg/L		0.030	0.10	5/29/2008 12:45:00 PM
TOTAL DISSOLVED SOLIDS			**SM2540 C**			Analyst: **GV**
Total Dissolved Solids	393	mg/L		1.0	1	5/23/2008 6:05:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *30-May-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0805F39
Client Sample ID:	OUTFALL 001 GRAB	**Lab ID:**	0805F39-02A
Project:	SECOND SCAN FOR VPDES	**Collection Date:**	5/22/2008 7:15:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**E624**			Analyst: **AS**
Benzene	ND	µg/L		2.88	5.00	5/23/2008 5:41:00 PM
Acrolein	ND	µg/L		45.3	50.0	5/23/2008 5:41:00 PM
Acrylonitrile	ND	µg/L		34.1	50.0	5/23/2008 5:41:00 PM
Bromoform	ND	µg/L		4.65	5.00	5/23/2008 5:41:00 PM
Bromomethane	ND	µg/L		2.48	5.00	5/23/2008 5:41:00 PM
Carbon tetrachloride	ND	µg/L		2.30	5.00	5/23/2008 5:41:00 PM
Chlorobenzene	ND	µg/L		4.53	5.00	5/23/2008 5:41:00 PM
Chloroform	12.2	µg/L		3.01	5.00	5/23/2008 5:41:00 PM
Dibromochloromethane	ND	µg/L		4.98	5.00	5/23/2008 5:41:00 PM
1,2-Dichloroethane	ND	µg/L		3.62	5.00	5/23/2008 5:41:00 PM
1,1-Dichloroethene	ND	µg/L		0.935	5.00	5/23/2008 5:41:00 PM
trans-1,2-Dichloroethene	ND	µg/L		1.94	5.00	5/23/2008 5:41:00 PM
1,2-Dichloropropane	ND	µg/L		3.93	5.00	5/23/2008 5:41:00 PM
cis-1,3-Dichloropropene	ND	µg/L		3.75	5.00	5/23/2008 5:41:00 PM
trans-1,3-Dichloropropene	ND	µg/L		4.55	5.00	5/23/2008 5:41:00 PM
Ethylbenzene	ND	µg/L		4.16	5.00	5/23/2008 5:41:00 PM
Methylene chloride	ND	µg/L		1.93	5.00	5/23/2008 5:41:00 PM
Tetrachloroethene	ND	µg/L		3.22	5.00	5/23/2008 5:41:00 PM
Toluene	ND	µg/L		3.84	5.00	5/23/2008 5:41:00 PM
1,1,2-Trichloroethane	ND	µg/L		4.50	5.00	5/23/2008 5:41:00 PM
Trichloroethene	ND	µg/L		3.42	5.00	5/23/2008 5:41:00 PM
Vinyl chloride	ND	µg/L		1.98	5.00	5/23/2008 5:41:00 PM
Surr: Dibromofluoromethane	111	%REC			80-120	5/23/2008 5:41:00 PM
Surr: 1,2-Dichloroethane-d4	107	%REC			80-120	5/23/2008 5:41:00 PM
Surr: Toluene-d8	100	%REC			88-110	5/23/2008 5:41:00 PM
Surr: 4-Bromofluorobenzene	96.7	%REC			86-115	5/23/2008 5:41:00 PM
OIL AND GREASE			**E1664**			Analyst: **JL**
Oil & Grease	ND	mg/L		2.00	5.0	5/29/2008 2:00:00 PM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

WESTERN VIRGINIA WATER AUTHORITY'S WATER POLLUTION CONTROL PLANT
CHAIN OF CUSTODY SAMPLING RECORD

Company Sampling: Western Virginia Water Authority -Pretreatment
Collected By: J. Richardson
Observations/Comments: Second Scan for VPDES

Sampling Location: WPCP Outfall 001
Flow Rate:

(Pretreatment Program)

No. of Containers	Date/Time Collected	Sample I.D.	Sample Type Grab or Composite	Preservation Code	pH	CL_2	Volitales	semi-volatiles	Oil & Grease	TPH	BTEX	Cyanide	Remarks
bottle 1	5.21.08 – 5.22.08 7:25 - 7:15	Outfall 001	Composite	N									Total Recoverable Sb, As, Cd, Cr, Cu, Pb, Ag, & Zn
1	" "	" "	Composite	N									Hardness
1	" "	" "	Composite	X									Total Dissolved Solids
3	" "	" "	Composite	X				X					Acid Extractables/Base Neutrals
1	7:25 – 7:15 5.21 – 5.22.08	" "	Composites	S									Ammonia, NO_3, NO_2
4	7:13 5.22.08	" "	Grab	2-N/4-HCL			X						VOC
2	7:08 5.22.08	Outfall 001	Grab	O					X				Oil and Grease

Observations:

Date/Time	Relinquished by: Print Name	Signature	Date/Time	Accepted by: Print Name	Signature
7:26 5.22.08	Janis Richardson	Janis Richardson	5/22/08	Erin Bryant	Erin Bryant

Preservation Code: H = NaOH S = Sulfuric Acid X = None
N = Nitric Acid O = Other

Temp 2.5°C

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

July 07, 2008

JANIS RICHARDSON
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE VA 24014

TEL: (540) 853-1517
FAX (540) 853-1307

RE: THIRD SCAN FOR VPDES

Order No.: 0806H13

Dear JANIS RICHARDSON:

REI Consultants, Inc. received 2 sample(s) on 6/25/2008 for the analyses presented in the following report.

Please note two changes you may see on your report.

- Results for "Dissolved" parameters will be shown under a separate sample ID, rather than as a separate analysis under the same sample ID. The sample ID for "Dissolved" parameters will include "Field Filtered" or "Lab Filtered", as appropriate.
- Metals results will no longer be identified as "Total" or "Total Recoverable". The methods have not been changed, only their appearance on the report.

If you have any questions regarding these results, please do not hesitate to call.

Sincerely,

Joy Mullins
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

225 Industrial Park Drive
Beaver, WV 25813
TEL: 304.255.2500
FAX: 304.255.2572
Website: www.reiclabs.com

Improving the environment, one client at a time...

Report Narrative

Project Manager:: **Joy Mullins**

WO#: **0806H13**
Date: **7/7/2008**

CLIENT: WESTERN VA WATER WWTP
Project: THIRD SCAN FOR VPDES

All analyses were performed using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. REI Consultants, Inc. (REIC) technical managers have verified compliance of reported results with the REIC's Quality Program and SOPs, except as noted in this case narrative. Any deviation from compliance is explained below and/or identified within the body of this report by a qualifier footnote which is defined at the bottom of each page.

All samples were analyzed using the methods stated in the analytical report without modification, unless otherwise noted.

All sample results are reported on an "as-received" basis unless otherwise noted.

Results reported for sums of individual parameters, such as Total Trihalomethanes (TTHM) and Total Haloacetic Acids (HAA5), may vary slightly from the sum of the individual parameter results. This apparent anomaly is caused by rounding individual results and summations at reporting, as required by EPA.

Following standard laboratory protocol, sample preservation, such as pH, is verified at time of extraction or analysis based on client requested parameters. Improper preservation is noted on the analytical bench sheet, extraction log, or preservation log and client is notified by close of following business day. All results are reported using preservation compliant samples unless otherwise noted in the analytical report.

The test results in this report meet all NELAP requirements for parameters for which accreditations are required or available. Any exceptions are noted in this report. This report may not be reproduced, except in full, without the written approval of REIC.

In compliance with federal guidelines and standard operating procedures, all reports, including raw data and supporting quality control, will be disposed of after five years unless otherwise arranged by the client via written notification or contract requirement.

REI Consultants, Inc. Analytical Results

Date: *11-Jul-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0806H13
Client Sample ID:	001-SCAN 3 COMP	**Lab ID:**	0806H13-01A
Project:	THIRD SCAN FOR VPDES	**Collection Date:**	6/24/2008 9:19:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
METALS BY ICP			**E200.7**			Analyst: **JD**
Antimony	0.0056	mg/L	J	0.00500	0.0200	6/27/2008 1:26:00 PM
Arsenic	ND	mg/L		0.00500	0.0200	6/26/2008 1:23:00 PM
Cadmium	ND	mg/L		0.00020	0.0010	6/26/2008 1:23:00 PM
Chromium	ND	mg/L		0.00100	0.0050	6/26/2008 1:23:00 PM
Copper	0.0091	mg/L		0.00200	0.0050	6/26/2008 1:23:00 PM
Lead	ND	mg/L		0.00300	0.0100	6/26/2008 1:23:00 PM
Silver	ND	mg/L		0.00100	0.0050	6/26/2008 1:23:00 PM
Zinc	0.0250	mg/L		0.00300	0.0200	6/26/2008 1:23:00 PM
HARDNESS			**SM2340 B**			Analyst: **JD**
Hardness, Total (As CaCO3)	192	mg/L		1.00	1.00	6/26/2008 1:23:00 PM
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
Acenaphthene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Anthracene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Benzidine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Benzo(a)anthracene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Benzo(a)pyrene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Benzo(k)fluoranthene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Bis(2-chloroethyl)ether	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Bis(2-chloroisopropyl)ether	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Bis(2-ethylhexyl)phthalate	ND	mg/L		0.00660	0.0110	7/2/2008 12:10:00 AM
Butyl benzyl phthalate	ND	mg/L		0.00550	0.0110	7/2/2008 12:10:00 AM
2-Chloronaphthalene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2-Chlorophenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Chrysene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Dibenzo(a,h)anthracene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Di-n-butyl phthalate	ND	mg/L		0.00330	0.0110	7/2/2008 12:10:00 AM
1,2-Dichlorobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
1,3-Dichlorobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
1,4-Dichlorobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
3,3'-Dichlorobenzidine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2,4-Dichlorophenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Diethyl phthalate	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Dimethyl phthalate	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2,4-Dimethylphenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2,4-Dinitrophenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2,4-Dinitrotoluene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM

Key:

MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
NA	Not Applicable	E	Estimated Value above quantitation range
ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *11-Jul-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0806H13
Client Sample ID:	001-SCAN 3 COMP	**Lab ID:**	0806H13-01A
Project:	THIRD SCAN FOR VPDES	**Collection Date:**	6/24/2008 9:19:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS			**E625**			Analyst: **CLS**
1,2-Diphenylhydrazine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Fluoranthene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Fluorene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Hexachlorobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Hexachlorobutadiene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Hexachlorocyclopentadiene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Hexachloroethane	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Indeno(1,2,3-cd)pyrene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Isophorone	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Naphthalene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Nitrobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
N-Nitrosodimethylamine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
N-Nitrosodiphenylamine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
N-Nitrosodi-n-propylamine	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Pentachlorophenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Phenol	0.0042	mg/L	J	0.00220	0.0110	7/2/2008 12:10:00 AM
Pyrene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
1,2,4-Trichlorobenzene	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
2,4,6-Trichlorophenol	ND	mg/L		0.00220	0.0110	7/2/2008 12:10:00 AM
Surr: 2-Fluorophenol	46.0	%REC			21-110	7/2/2008 12:10:00 AM
Surr: Phenol-d5	32.5	%REC			10-110	7/2/2008 12:10:00 AM
Surr: 2,4,6-Tribromophenol	84.6	%REC			10-123	7/2/2008 12:10:00 AM
Surr: Nitrobenzene-d5	73.9	%REC			35-114	7/2/2008 12:10:00 AM
Surr: 2-Fluorobiphenyl	75.2	%REC			43-116	7/2/2008 12:10:00 AM
Surr: 4-Terphenyl-d14	76.5	%REC			33-141	7/2/2008 12:10:00 AM
ANIONS BY ION CHROMATOGRAPHY			**SM4110B**			Analyst: **SB**
Nitrogen, Nitrate-Nitrite	10.2	mg/L		0.030	0.10	7/1/2008 5:28:00 PM
AMMONIA NITROGEN			**E350.1**			Analyst: **BA**
Nitrogen, Ammonia (As N)	ND	mg/L		0.030	0.10	6/27/2008 9:00:00 AM
TOTAL DISSOLVED SOLIDS			**SM2540 C**			Analyst: **GV**
Total Dissolved Solids	410	mg/L		1.0	1	6/26/2008 6:35:00 AM

Key:				
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	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

REI Consultants, Inc. Analytical Results

Date: *11-Jul-08*

CLIENT:	WESTERN VA WATER WWTP	**WorkOrder:**	0806H13
Client Sample ID:	001-SCAN 3 GRAB	**Lab ID:**	0806H13-02A
Project:	THIRD SCAN FOR VPDES	**Collection Date:**	6/25/2008 9:16:00 AM
Site ID:	WPCP OUTFALL 001	**Matrix:**	WASTE WATER

Analyses	Result	Units	Qual	MDL	PQL	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**E624**			Analyst: **SDG**
Benzene	ND	µg/L		2.88	5.00	6/26/2008 1:23:00 PM
Acrolein	ND	µg/L		45.3	50.0	6/26/2008 1:23:00 PM
Acrylonitrile	ND	µg/L		34.1	50.0	6/26/2008 1:23:00 PM
Bromoform	ND	µg/L		4.65	5.00	6/26/2008 1:23:00 PM
Bromomethane	ND	µg/L		2.48	5.00	6/26/2008 1:23:00 PM
Carbon tetrachloride	ND	µg/L		2.30	5.00	6/26/2008 1:23:00 PM
Chlorobenzene	ND	µg/L		4.53	5.00	6/26/2008 1:23:00 PM
Chloroform	16.0	µg/L		3.01	5.00	6/26/2008 1:23:00 PM
Dibromochloromethane	ND	µg/L		4.98	5.00	6/26/2008 1:23:00 PM
1,2-Dichloroethane	ND	µg/L		3.62	5.00	6/26/2008 1:23:00 PM
1,1-Dichloroethene	ND	µg/L		0.935	5.00	6/26/2008 1:23:00 PM
trans-1,2-Dichloroethene	ND	µg/L		1.94	5.00	6/26/2008 1:23:00 PM
1,2-Dichloropropane	ND	µg/L		3.93	5.00	6/26/2008 1:23:00 PM
cis-1,3-Dichloropropene	ND	µg/L		3.75	5.00	6/26/2008 1:23:00 PM
trans-1,3-Dichloropropene	ND	µg/L		4.55	5.00	6/26/2008 1:23:00 PM
Ethylbenzene	ND	µg/L		4.16	5.00	6/26/2008 1:23:00 PM
Methylene chloride	ND	µg/L		1.93	5.00	6/26/2008 1:23:00 PM
Tetrachloroethene	ND	µg/L		3.22	5.00	6/26/2008 1:23:00 PM
Toluene	ND	µg/L		3.84	5.00	6/26/2008 1:23:00 PM
1,1,2-Trichloroethane	ND	µg/L		4.50	5.00	6/26/2008 1:23:00 PM
Trichloroethene	ND	µg/L		3.42	5.00	6/26/2008 1:23:00 PM
Vinyl chloride	ND	µg/L		1.98	5.00	6/26/2008 1:23:00 PM
Surr: Dibromofluoromethane	115	%REC			80-120	6/26/2008 1:23:00 PM
Surr: 1,2-Dichloroethane-d4	111	%REC			80-120	6/26/2008 1:23:00 PM
Surr: Toluene-d8	104	%REC			88-110	6/26/2008 1:23:00 PM
Surr: 4-Bromofluorobenzene	102	%REC			86-115	6/26/2008 1:23:00 PM
OIL AND GREASE			**E1664**			Analyst: **JL**
Oil & Grease	ND	mg/L		2.00	5.0	7/2/2008 8:30:00 AM

Key:				
	MCL	Maximum Contaminant Level	J	Analyte detected below quantitation limits
	MDL	Minimum Detection Limit	B	Analyte detected in the associated Method Blank
	NA	Not Applicable	E	Estimated Value above quantitation range
	ND	Not Detected at the PQL or MDL	H	Holding times for preparation or analysis exceeded
	PQL	Practical Quantitation Limit	S	Spike/Surrogate Recovery outside accepted recovery limits
	TIC	Tentatively Identified Compound, Estimated Concentration	*	Value exceeds Maximum Contaminant Level

Western Virginia Water Authority
River Report

Date collected: 10/10/2007

Sampled by: RS/SK

Time Collected:	7:52 AM	8:00 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.9	7.5
Temperature, degrees C	21.5	22.9
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.14
BOD, mg/L	<5.0	<5.0
TSS, mg/L	8.6	1.4
Fecal Coliform, MPN/100 mL	23	<2
Dissolved Oxygen, mg/L	6.15	6.84
Clarity	2	2
Color	2	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 11/7/2007

Sampled by: LB/RS

Time Collected:	7:55 AM	8:00 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	8.0	7.4
Temperature, degrees C	8.8	18.1
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	<0.05
BOD, mg/L	<5.0	<5.0
TSS, mg/L	2.0	1.0
Fecal Coliform, MPN/100 mL	50	<2
Dissolved Oxygen, mg/L	11.50	8.76
Clarity	1	1
Color	2	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 12/7/2007

Sampled by: SK/LB

Time Collected:	7:46 AM	7:38 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.8	7.2
Temperature, degrees C	3.9	15.5
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.05
BOD, mg/L	<5.0	<5.0
TSS, mg/L	2.0	1.0
Fecal Coliform, MPN/100 mL	50	<2
Dissolved Oxygen, mg/L	12.62	9.24
Clarity	1	1
Color	1	1

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 1/9/2008

Sampled by: LB/SK

Time Collected:	7:54 AM	7:46 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.8	7.1
Temperature, degrees C	10.9	15.4
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.21
BOD, mg/L	<5.0	<5.0
TSS, mg/L	3.8	<1.0
Fecal Coliform, MPN/100 mL	80	<2
Dissolved Oxygen, mg/L	10.18	8.61
Clarity	1	1
Color	2	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 2/6/2008

Sampled by: LB/SK

Time Collected:	7:56 AM	7:50 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.9	7.2
Temperature, degrees C	12.4	14.5
TKN, mg/L	<1.0	1.5
Total Phosphorus, mg/L	<0.05	0.09
BOD, mg/L	<5.0	2.4
TSS, mg/L	8.8	1.6
Fecal Coliform, MPN/100 mL	130	2
Dissolved Oxygen, mg/L	11.21	10.27
Clarity	3	3
Color	5	5

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 3/5/2008

Sampled by: LB/RS

Time Collected:	7:22 AM	7:30 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.8	7.1
Temperature, degrees C	10.9	14.4
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.07
BOD, mg/L	<5.0	<5.0
TSS, mg/L	19.7	<1.0
Fecal Coliform, MPN/100 mL	1600	<2
Dissolved Oxygen, mg/L	9.65	9.11
Clarity	5	5
Color	5	5

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 4/9/2008

Sampled by: LB/SK

Time Collected:	7:48 AM	7:45 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.6	7.1
Temperature, degrees C	12.4	15.1
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	<0.05
BOD, mg/L	<5.0	<5.0
TSS, mg/L	13.0	1.0
Fecal Coliform, MPN/100 mL	130	<2
Dissolved Oxygen, mg/L	10.31	8.77
Clarity	4	2
Color	5	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 5/13/2008

Sampled by: LB/SK

Time Collected:	7:21 AM	7:17 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.9	7.1
Temperature, degrees C	13.6	17.4
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	<0.05
BOD, mg/L	<5.0	<5.0
TSS, mg/L	9.3	1.1
Fecal Coliform, MPN/100 mL	300	<2
Dissolved Oxygen, mg/L	9.01	8.79
Clarity	4	1
Color	5	1

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 6/5/2008

Sampled by: RS/SK

Time Collected:	7:19 AM	7:25 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.6	7.2
Temperature, degrees C	23.2	20.8
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.08
BOD, mg/L	<5.0	<5.0
TSS, mg/L	10.0	<1.0
Fecal Coliform, MPN/100 mL	340	<2
Dissolved Oxygen, mg/L	6.63	8.10
Clarity	1	1
Color	2	1

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 7/10/2008

Sampled by: RS/LB

Time Collected:	8:04 AM	7:53 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	8.2	7.4
Temperature, degrees C	23.4	22.5
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	0.05	0.06
BOD, mg/L	<5.0	<5.0
TSS, mg/L	20.0	1.0
Fecal Coliform, MPN/100 mL	1600	4
Dissolved Oxygen, mg/L	6.36	7.50
Clarity	5	1
Color	5	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 8/7/2008

Sampled by: RS/SK

Time Collected:	7:16 AM	7:10 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	8.0	7.2
Temperature, degrees C	24.7	23.8
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	<0.05
BOD, mg/L	<5.0	<5.0
TSS, mg/L	8.6	<1.0
Fecal Coliform, MPN/100 mL	240	<2
Dissolved Oxygen, mg/L	5.30	7.03
Clarity	5	2
Color	4	2

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other

Western Virginia Water Authority
River Report

Date collected: 9/3/2008

Sampled by: SK/RS

Time Collected:	7:26 AM	7:23 AM
Parameters	**#6 Before Outfall**	**#7 After Outfall**
pH, S.U.	7.6	7.0
Temperature, degrees C	22.6	23.0
TKN, mg/L	<1.0	<1.0
Total Phosphorus, mg/L	<0.05	0.07
BOD, mg/L	<5.0	<5.0
TSS, mg/L	7.2	<1.0
Fecal Coliform, MPN/100 mL	170	<2
Dissolved Oxygen, mg/L	6.26	7.32
Clarity	4	1
Color	5	1

Clarity Index	Color Index
1= Clear	None Present
2= Semi-Clear	Green
3= hazy	Blue
4= turbid	Orange
5= very turbid	Brown
6=	Milky
7=	Other