

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Jesse Pearce
Portsmouth Water and Sewer
680 Peverly Hill Road
Portsmouth, NH 03801

PO Number: None
Job ID: 39337
Date Received: 2/21/17

Project: Strawberry Banke SW Sample

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink, appearing to read 'Sue Sylvester' followed by '(for)' in parentheses.

Sue Sylvester
Principal, General Manager

Date of Approval: 2/23/2017
Total number of pages: 3

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: Strawberry Banke SW Sample

Job ID: 39337

Sample#: 39337-001

Sample ID: Marcy St. Storm Drain

Matrix: Water

Sampled: 2/21/17 12:57

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	>2419.6	1.0	MPN	1	JZL		1700449	2/21/17	15:10	SM9223B
E. coli Bacteria	36.4	1.0	MPN	1	JZL		1700449	2/21/17	15:10	SM9223B

Sample#: 39337-002

Sample ID: Prescott Park Outfall

Matrix: Water

Sampled: 2/21/17 13:05

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	>2419.6	1.0	MPN	1	JZL		1700449	2/21/17	15:10	SM9223B
E. coli Bacteria	23.7	1.0	MPN	1	JZL		1700449	2/21/17	15:10	SM9223B

Absolute Resource
associates



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

39337

ANALYSIS REQUEST

Company Name: Portsmouth WTP	Project Name: Strawberry
Company Address: Leo Freshet Rd. Madbury, NH	Project #: Banke SW sample
Report To: Jesse Pearce	Project Location: (NH) MA ME VT
Phone #: 957-2436	Accreditation Required? N/Y
Invoice to:	Protocol: RCRA SDWA NPDES MCP NHDES DOD
☐ Email:	Reporting QAPP GW-1 S-1
☐ Hard Copy Invoice Required ☐ PO #	Limits: EPA DW Other
	Quote #
	☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
3/21/17	Marcy st.	1	✓								2/21/17	12:57	JP
↓ 02	Storm Drain	1	✓								2/21/17	1:05	JP
	Prescott Park												
	Outfall												

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP
☐ VOC 624	☐ VOC BTEX MIBE, only	☐ VOC 8021VT
☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane
☐ VOC 524.2	☐ VOC 524.2 NH List	☐ Gases-List:
☐ TPH	☐ DR0 8015	☐ EPH MADEP
☐ 8270PAH	☐ 8270ABN	☐ 625
☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB
☐ O&G 1664	☐ Mineral O&G SM5520F	
☐ pH	☐ BOD	☐ Conductivity
☐ TSS	☐ TDS	☐ TS
☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals
☐ Total Metals-list:	☐ Dissolved Metals-list:	
☐ Ammonia	☐ COD	☐ TKN
☐ T-Phosphorus	☐ Phenols	☐ Bacteria P/A
☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite
☐ Nitrate	☐ Nitrite	☐ Chloride
☐ Corrosivity	☐ Reactive CN	☐ Ignitibility/FP
☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC
☐ Subcontract:	☐ Grain Size	☐ Herbicides
	☐ Formaldehyde	☐ PFC

Grab (G) or Composite (C)

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☐
(10 Business Days)
*Date Needed _____

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) _____

☐ HARD COPY REQUIRED ☐ EDD _____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE _____ °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: <i>Jesse</i>	Date: <i>2/21/17</i>	Time: <i>1415</i>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Laboratory: <i>[Signature]</i>	Date: <i>2/21/17</i>	Time: <i>1415</i>

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Jesse Pearce
Portsmouth Water and Sewer
680 Peverly Hill Road
Portsmouth, NH 03801

PO Number: None
Job ID: 39371
Date Received: 2/23/17

Project: SW Sampling

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

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Absolute Resource Associates

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Sue Sylvester
Principal, General Manager

Date of Approval: 2/27/2017
Total number of pages: 3

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: SW Sampling

Job ID: 39371

Sample#: 39371-001

Sample ID: Marcy St. Storm Drain

Matrix: Water

Sampled: 2/23/17 14:54

Parameter	Result	Reporting	Instr Dil'n		Analyst	Prep	Analysis			Reference
		Limit	Units	Factor		Date	Batch	Date	Time	
Total Coliform Bacteria	52310.0	50.0	MPN	50	JZL		1700475	2/23/17	17:20	SM9223B
E. coli Bacteria	13775.0	50.0	MPN	50	JZL		1700475	2/23/17	17:20	SM9223B

Sample#: 39371-002

Sample ID: Prescott Park Outfall

Matrix: Water

Sampled: 2/23/17 15:03

Parameter	Result	Reporting	Instr Dil'n		Analyst	Prep	Analysis			Reference
		Limit	Units	Factor		Date	Batch	Date	Time	
Total Coliform Bacteria	20530.0	50.0	MPN	50	JZL		1700475	2/23/17	17:20	SM9223B
E. coli Bacteria	4165.0	50.0	MPN	50	JZL		1700475	2/23/17	17:20	SM9223B

Sample#: 39371-003

Sample ID: Shaw WHSE Bay

Matrix: Water

Sampled: 2/23/17 15:15

Parameter	Result	Reporting	Instr Dil'n		Analyst	Prep	Analysis			Reference
		Limit	Units	Factor		Date	Batch	Date	Time	
Total Coliform Bacteria	450.0	10.0	MPN	10	JZL		1700475	2/23/17	17:20	SM9223B
E. coli Bacteria	52.0	10.0	MPN	10	JZL		1700475	2/23/17	17:20	SM9223B

Absolute Resource
 associates

 124 Heritage Avenue #16
 Portsmouth, NH 03801
 603-436-2001

absoluteresourceassociates.com

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

39371

ANALYSIS REQUEST

 Company Name: Portsmouth WTP
 Company Address: 60 Freshet Rd. Madbury
 Report To: Jesse Pearce
 Phone #: 957-2436
 Invoice to: _____
☐ Email: _____
☐ Hard Copy Invoice Required ☐ PO # _____

 Project Name: SCU Sampling
 Project #: _____
 Project Location: NH MA ME VT _____
 Accreditation Required? N/Y: _____
 Protocol: RCRA SDWA NPDES
 MCP NHDES DOD
 Reporting QAPP GW-1 S-1
 Limits: EPA DW Other _____
 Quote # _____
☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
39371-01	Marcy St. Storm Drain	3	✓								2/23/17	1454	JP
02	Prescott Park Outfall	2	✓								2/23/17	1503	JP
03	SHAW WHSE Bay	1	✓								2/23/17	1515	JP

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 8260 MBE, only	☐ VOC 8021VT	☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ VOC 524.2 NH List	☐ Gases-List:	☐ TPH	☐ DRD 8015	☐ EPH MADEP	☐ TPH Fingerprint	☐ 8270PAH	☐ 8270ABN	☐ 625	☐ EDB	☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB	☐ O&G 1664	☐ Mineral O&G SM5520F	☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color	☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Alkalinity	☐ Acidity	☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☐ Total Metals-list:	☐ Dissolved Metals-list:	☐ Ammonia	☐ COD	☐ TKN	☐ TON	☐ TOC	☐ T-Phosphorus	☐ Phenols	☐ Bacteria P/A	☒ Bacteria MPN	☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Nitrate	☐ Chloride	☐ Sulfate	☐ Bromide	☐ Fluoride	☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitibility/FP	☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract:	☐ Grain Size	☐ Herbicides	☐ Formaldehyde	☐ PFC
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Grab (G) or Composite (C)

TAT REQUESTED

 Priority (24 hr)* ☐
 Expedited (48 hr)* ☐
 Standard ☐
 (10 Business Days)
 *Date Needed _____

 See absoluteresourceassociates.com
 for sample acceptance policy and
 current accreditation lists.

SPECIAL INSTRUCTIONS

 REPORTING INSTRUCTIONS ☐ PDF (e-mail address) _____
☐ HARD COPY REQUIRED ☐ EDD _____

 RECEIVED ON ICE ☒ YES ☐ NO
 TEMPERATURE 2 °C

**CUSTODY
RECORD**

QSD-01 Revision 12/22/16

Relinquished by Sampler: <u>Jesse Pearce</u>	Date: <u>2/23/17</u> Time: <u>11:00</u>	Received by: _____	Date: _____ Time: _____
Relinquished by: _____	Date: _____ Time: _____	Received by: _____	Date: _____ Time: _____
Relinquished by: _____	Date: _____ Time: _____	Received by Laboratory: <u>[Signature]</u>	Date: <u>2/23/17</u> Time: <u>11:00</u>



EnviroSystems, Inc.
P.O. Box 778
Hampton, NH 03843-0778
603-926-3345

November 22, 2016

Ms. Jesse Pearce
Portsmouth WTP
60 Freshet Rd.
Madbury, New Hampshire 03823

Dear Ms. Pearce:

Enclosed, please find a copy of our report covering results for analyses performed on samples received on February 23, 2017.

Samples were received in acceptable condition and under chain of custody. Analytes in blanks were below levels affecting sample results. Accuracy and precision, as monitored by laboratory duplicate analyses and positive controls, were within acceptance limits.

Please do not hesitate to call me should you have any questions regarding the report.

Sincerely,

EnviroSystems, Incorporated

A handwritten signature in black ink, appearing to read "Lisa Bordonaro", is written over a horizontal line.

Lisa Bordonaro
Microbiology Manager

Enclosure
Report 28837-17-02

BACTERIAL ANALYSIS REPORT

ESI Study No.: 28837
Client: Portsmouth WTP
Sample Receipt: 02/23/17 1555

Fecal Coliform

Method: SM 9222D

Sample Identification	Sample Collection		Sample Analysis		Result (CFU/100mL)	Analyst
	Date	Time	Date	Time		
Marcy St. Storm Drain	02/23/17	1454	02/23/17	1628	5400	MW
SHAW WHSE Bay	02/23/17	1514	02/23/17	1625	500	MW
Prescott Park Outfall	02/23/17	1502	02/23/17	1625	15,273	MW

Analytical Methods: APHA. 2012. Standard Methods for the Examination of Water and Wastewater, 22nd Edition. Washington D.C.

U.S. Environmental Protection Agency Office of Water (4303T), 2003.
Method 1600: Membrane Filter Test for Enterococci in Water.
Washington D.C.

APPENDIX A
DATA SHEETS

Contents	Number of Pages
Bench Sheets	1
Sample Chlorine Check	1
Sample Receipt Record and Condition Documentation	1
Chain of Custody Record	1
Report Review Checklist	1
Total Appendix Pages	5

MICROBIOLOGICAL ASSAY DATA SHEET

Client: Portsmouth WTP	Date: 02/23/2017
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Initials: MW

ESI #: 28837

M-FC: M-3033

Date collected: 02/23/17

Positive lot #: ECB021517A

[illegible]

M-FC stored in Incubator #303	Temp: 44.7	1643	02/23/17	to	1517	02/24/17
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Method 922D	Counted:	1518	02/24/17	Counted By:	MW
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Sample Chlorine Check

Cl Strips A-4310 Date & Time 1421 2/23/17 Initial MW

Sample	Result
001	0 mg/L
002	0 mg/L
003	0 mg/L
	mg/L

SAMPLE RECEIPT AND CONDITION DOCUMENTATION

Page 1 of 1

STUDY NO: 28837
 SDG No:
 Project: SW Sampling
 Delivered via: Client
 Date and Time Received: 02/23/17 1555 Date and Time Logged into Lab: 02/23/17 1615
 Received By: LB Logged into Lab by: LB LB
 Air bill / Way bill: No Air bill included in folder if received? NA
 Cooler on ice/packs: Yes Custody Seals present? NA
 Cooler Blank Temp (C) at arrival: 4C Custody Seals intact? NA
 Number of COC Pages: 1
 COC Serial Number(s):
 COC Complete: Yes Does the info on the COC match the samples? Yes
 Sampled Date: Yes Were samples received within holding time? Yes
 Field ID complete: Yes Were all samples properly labeled? Yes
 Sampled Time: Yes Were proper sample containers used? Yes
 Analysis request: Yes Were samples received intact? (none broken or leaking) Yes
 COC Signed and dated: Yes Were sample volumes sufficient for requested analysis? Yes
 Were all samples received? Yes Were VOC vials free of headspace? NA
 Client notification/authorization: Not required pH Test strip ID number: NA

Field ID	Lab ID	Mx	Analysis Requested	Bottle	Req'd Pres'n	Verified Pres'n
Marcy St. Storm Drain	28837-001	W	Fecal Coliform	100mL p	4C	
SHAW WHSE Bay	28837-002	W	Fecal Coliform	100mL p	4C	
Prescott Park Outfall	28837-003	W	Fecal Coliform	100mL p	4C	

Notes and qualifications:

See COC

CHAIN OF CUSTODY RECORD

ENVIROSYSTEMS, INCORPORATED							ESI STUDY # 28837					
One Lafayette Road, P.O. Box 778, Hampton, New Hampshire 03843									Customer Services: Phone # (603) 926-3345 Fax # (603) 926-3521			PAGE 1 OF
CLIENT: Portsmouth WTP			CONTACT: Jesse Pearce						PROJECT NAME: SW Sampling			P.O.#
REPORT TO: Jesse Pearce			ADDRESS: 600 Fresnet Rd. Madbury, NH						PHONE: 603-957- 2436			
INVOICE TO: Al Pratt			ADDRESS: "						SAMPLED BY: Jesse Pearce			
SAMPLE #	FIELD IDENTIFICATION (MUST AGREE WITH CONTAINER)	DATE SAMPLED	COMPOSITE (YES/NO)	TIME SAMPLED	SAMPLE MATRIX	CONTAINER #/VOLUME	DID YOU FIELD PRESERVE	NOTES / ANALYSIS REQUESTED (SPECIAL INSTRUCTIONS, CAUTIONS, ETC.)				
001	Marcy St. Storm Drain	2/23/17	N	2:54	Aqg	1	N	Fecal Coliform (CFU)				
002	SHAW w/se Bay	2/23/17	N	3:14	Aqg	1	N	"				
003	Percott Park Outfall	2/23/17	N	3:02	Aqg	1	N	"				
RELINQUISHED BY: Jesse V.		DATE: 2/23/17		TIME: 15:55		RECEIVED BY: [Signature]			DATE: 2/23/17		TIME: 1555	
RELINQUISHED BY:		DATE:		TIME:		RECEIVED BY:			DATE:		TIME:	
RELINQUISHED BY:		DATE:		TIME:		RECEIVED BY:			DATE:		TIME:	

COMMENTS:

Microbiology Report Review Checklist

STUDY #: 28837

CLIENT: Portsmouth WTP

PROJECT: SW Sampling

DATE IN: 2/23/17

DATE DUE: 3/8/17

Analyst Data Review	Date	Initials	Comments
Chains of Custody Complete	2/23/17	LB	
Sample Receipt Complete	↓	↓	
Bench Sheets Complete (dates, times, initials, etc...)	3/2/17	LB	

Technical Report Review	Date	Initials	Comments
Data Acceptability Review	3/2/17	LB	
Draft Report	↓	↓	
Final Report Reviewed	3/3/17	LB	
QA Audit / Review Complete			
Report Printed to PDF	3/3/17	LB	
Report scanned to archive	↓	↓	
Report Sent to Client	↓	↓	
Invoice Sent	↓	↓	

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Jesse Pearce
Portsmouth Water and Sewer
680 Peverly Hill Road
Portsmouth, NH 03801

PO Number: None
Job ID: 39406
Date Received: 3/2/17

Project: SW Sampling Round 3

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

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Absolute Resource Associates

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Sue Sylvester
Principal, General Manager

Date of Approval: 3/7/2017
Total number of pages: 5

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: SW Sampling Round 3**Job ID:** 39406**Sample#:** 39406-001**Sample ID:** Prescott Park Outfall**Matrix:** Water**Sampled:** 3/2/17 7:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	591	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	41	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-002**Sample ID:** Prescott Park Outfall 2**Matrix:** Water**Sampled:** 3/2/17 7:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	375	50	MPN	50	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	< 50	50	MPN	50	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-003**Sample ID:** Marcy St. Storm Drain Low**Matrix:** Water**Sampled:** 3/2/17 8:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	119	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	< 10	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-004**Sample ID:** Marcy St. Storm Drain - Bow**Matrix:** Water**Sampled:** 3/2/17 8:17

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	216	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	10	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-005**Sample ID:** Marcy St. MH Sump**Matrix:** Water**Sampled:** 3/2/17 8:29

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	5475	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	63	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-006**Sample ID:** Marcy St. MH PI Intersection**Matrix:** Water**Sampled:** 3/2/17 8:48

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Total Coliform Bacteria	605	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	20	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Project ID: SW Sampling Round 3

Job ID: 39406

Sample#: 39406-007

Sample ID: Washington MH Inlet

Matrix: Water

Sampled: 3/2/17 9:30

Parameter	Result	Reporting	Units	Instr Dil'n	Analyst	Prep Date	Batch	Analysis		Reference
		Limit						Date	Time	
Total Coliform Bacteria	2310	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	199	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-008

Sample ID: Washington MH Sump

Matrix: Water

Sampled: 3/2/17 9:39

Parameter	Result	Reporting	Units	Instr Dil'n	Analyst	Prep Date	Batch	Analysis		Reference
		Limit						Date	Time	
Total Coliform Bacteria	20	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	< 10	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Sample#: 39406-009

Sample ID: Washington CB Sump

Matrix: Water

Sampled: 3/2/17 9:51

Parameter	Result	Reporting	Units	Instr Dil'n	Analyst	Prep Date	Batch	Analysis		Reference
		Limit						Date	Time	
Total Coliform Bacteria	3654	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B
E. coli Bacteria	305	10	MPN	10	JZL		1700529	3/2/17	15:45	SM9223B

Absolute Resource
associates



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

**CHAIN-OF-CUSTODY RECORD
AND ANALYSIS REQUEST**

39406

ANALYSIS REQUEST

Company Name: Portsmouth WTP

Company Address: 60 Freshet Rd. Madbury, NH

Report To: Jesse Pearce

Phone #: 603-957-2436

Invoice to: _____

☐ Email: _____

☐ Hard Copy Invoice Required ☐ PO # _____

Project Name: SW Sampling Round 3

Project #: _____

Project Location: NH MA ME VT _____

Accreditation Required? N/Y

Protocol: RCRA SDWA NPDES
MCP NHDES DOD

Reporting Limits: QAPP GW-1 S-1
EPA DW Other _____

Quote # _____

☐ NH Reimbursement Pricing

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 624	☐ VOC BTEX MIBE, only	☐ VOC 8021VT	☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ VOC 524.2 NH List	☐ Gases-List:	☐ TPH	☐ DRG 8015	☐ EPH MADEP	☐ TPH Fingerprint	☐ 8270PAH	☐ 8270ABN	☐ 625	☐ EDB	☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB	☐ O&G 1664	☐ Mineral O&G SM5520F	☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color	☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Alkalinity	☐ Acidity	☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☐ Total Metals-list:	☐ Dissolved Metals-list:	☐ Ammonia	☐ COD	☐ TKN	☐ TN	☐ TOC	☐ T-Phosphorus	☐ Phenols	☐ Bacteria P/A	☒ Bacteria MPN	☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Nitrate	☐ Nitrite	☐ Chloride	☐ Sulfate	☐ Fluoride	☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitibility/FP	☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract:	☐ Grain Size	☐ Herbicides	☐ Formaldehyde	☐ PFC	☐ Grab (G)	☐ Composite (C)
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Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
39406-01	Prescott Park Outfall	1	✓								3/2/17	7:45	JP
02	Prescott Park Outfall 2	1	✓								3/2/17	7:45	JP
-03	Marcy st. Storm Drain Low	1	✓								3/2/17	8:10	JP
-04	Marcy st. Storm Drain - Bow	1	✓								3/2/17	8:17	JP

TAT REQUESTED

Priority (24 hr)* ☐

Expedited (48 hr)* ☐

Standard (10 Business Days) ☐

*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS Outfall may have some salt water, sampled @ low tide.

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) _____

☐ HARD COPY REQUIRED ☐ EDD _____

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 2 °C

CUSTODY RECORD QSD-01 Revision 12/22/16	Relinquished by Sampler: <u>Jesse Pearce</u>	Date: <u>3/2/17</u> Time: <u>1028</u>	Received by: _____	Date: _____ Time: _____
	Relinquished by: _____	Date: _____ Time: _____	Received by: _____	Date: _____ Time: _____
	Relinquished by: _____	Date: _____ Time: _____	Received by Laboratory: <u>John</u>	Date: <u>3/2/17</u> Time: <u>1028</u>

Absolute Resource
associates



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

39406

ANALYSIS REQUEST

Company Name: Portsmouth WTP	Project Name: SW Sampling
Company Address: 600 Freshet Rd. Madbury, NH	Project #: Round 3
Report To: Jesse Pearce	Project Location: NH MA ME VT
Phone #: 603-957-2436	Accreditation Required? N/Y:
Invoice to:	Protocol: RCRA SDWA NPDES MCP NHDES DOD
☐ Email:	Reporting QAPP GW-1 S-1 Limits: EPA DW Other
☐ Hard Copy Invoice Required ☐ PO #	Quote #
	☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
3946-05	Marcy st. MHT Sump	1	✓								3/2/17	8:29	JP
-06	Marcy st. MHT Pl Intersection	1	✓								3/2/17	8:48	JP
-07	Washington MHT Inlet	1	✓								3/2/17	9:30	JP
-08	Washington MHT Sump	1	✓								3/2/17	9:39	JP
-09	Washington CB Sump	1	✓								3/2/17	9:51	JP

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 8260 BTEX MIBE, only	☐ VOC 8021VT
☐ VOC 624	☐ VOC 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ NH List
☐ TPH	☐ DRO 8015	☐ EPH MADEP	☐ TPH Fingerprint	☐ 8270PAH
☐ 8270PAH	☐ 8270ABN	☐ 625	☐ ED8	☐ 8082 PCB
☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB	☐ O&G 1664	☐ Mineral O&G SM5520F
☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color
☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Acidity
☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☐ Total Metals-list:
☐ Dissolved Metals-list:	☐ Ammonia	☐ COD	☐ TKN	☐ TON
☐ T-Phosphorus	☐ Phenols	☐ Bacteria P/A	☒ Bacteria MPN	☐ Cyanide
☐ Nitrate	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Bromide
☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitability/FP	☐ TCLP Metals
☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract:
☐ Grain Size	☐ Herbicides	☐ Formaldehyde	☐ PFC	

Grab (G) or Composite (C)

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☐
(10 Business Days)
*Date Needed _____

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

Dilutions may be necessary.

REPORTING INSTRUCTIONS

☐ PDF (e-mail address) _____
☐ HARD COPY REQUIRED ☐ EDD _____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE **2** °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: Jesse	Date: 3/2/17	Time: 1628	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by Laboratory: Jesse	Date: 3/2/17	Time: 1628

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Jesse Pearce
Portsmouth Water and Sewer
680 Peverly Hill Road
Portsmouth, NH 03801

PO Number: None
Job ID: 39864
Date Received: 4/17/17

Project: April SW Sampling

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink, appearing to read "Sue Sylvester (for)".

Sue Sylvester
Principal, General Manager

Date of Approval: 5/2/2017
Total number of pages: 8

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: April SW Sampling

Job ID: 39864

Sample#: 39864-001

Sample ID: Marcy MH 5430

Matrix: Water

Sampled: 4/17/17 11:24

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.2	0.1	mg/L	1	AMK		1700953	4/19/17	7:45	SM5540Cmod

Sample#: 39864-002

Sample ID: PP Outfall

Matrix: Water

Sampled: 4/17/17 10:48

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.6	0.2	mg/L	2	AMK		1700953	4/19/17	7:45	SM5540Cmod

Sample#: 39864-003

Sample ID: 9209

Matrix: Water

Sampled: 4/17/17 11:38

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.2	0.1	mg/L	1	AMK		1700953	4/19/17	7:45	SM5540Cmod

Sample#: 39864-004

Sample ID: 9062

Matrix: Water

Sampled: 4/17/17 12:16

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	< 0.1	0.1	mg/L	1	AMK		1700953	4/19/17	7:45	SM5540Cmod

Project ID: April SW Sampling

Job ID: 39864

Sample#: 39864-001

Sample ID: Marcy MH 5430

Matrix: Water

Sampled: 4/17/17 11:24

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	43	0.5	mg/L	1	AM	4/19/17	9564	4/21/17	16:21	E200.8

Sample#: 39864-002

Sample ID: PP Outfall

Matrix: Water

Sampled: 4/17/17 10:48

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	270	10	mg/L	20	AM	4/19/17	9564	4/25/17	13:00	E200.8

Sample#: 39864-003

Sample ID: 9209

Matrix: Water

Sampled: 4/17/17 11:38

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	34	0.5	mg/L	1	AM	4/19/17	9564	4/21/17	16:33	E200.8

Sample#: 39864-004

Sample ID: 9062

Matrix: Water

Sampled: 4/17/17 12:16

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	14	0.5	mg/L	1	AM	4/19/17	9564	4/21/17	16:39	E200.8

Project ID: April SW Sampling

Job ID: 39864

Sample#: 39864-001

Sample ID: Marcy MH 5430

Matrix: Water

Sampled: 4/17/17 11:24

Parameter	Reporting		Instr Dil'n		Analyst	Prep Date	Analysis			Reference
	Result	Limit	Units	Factor			Batch	Date	Time	
Ammonia as N	< 0.5	0.5	mg/L	1	APA		1701036	4/26/17		SM4500NH3-D
Enterococci Bacteria	1.0	1.0	MPN	1	AM		1700937	4/17/17	15:15	Enterolert
Fluoride	< 0.5	0.5	mg/L	5	JZL		1701075	4/25/17	14:46	E300.0A
Salinity	3.6	2.0	ppt	1	APA		1700962	4/20/17		SM2520B
Total Coliform Bacteria	1986.3	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B
E. coli Bacteria	27.5	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B

Sample#: 39864-002

Sample ID: PP Outfall

Matrix: Water

Sampled: 4/17/17 10:48

Parameter	Reporting		Instr Dil'n		Analyst	Prep Date	Analysis			Reference
	Result	Limit	Units	Factor			Batch	Date	Time	
Ammonia as N	< 0.5	0.5	mg/L	1	APA		1701036	4/26/17		SM4500NH3-D
Enterococci Bacteria	< 10.0	10.0	MPN	10	AM		1700937	4/17/17	15:15	Enterolert
Fluoride	< 0.5	0.5	mg/L	5	JZL		1701075	4/25/17	15:03	E300.0A
Salinity	26	2.0	ppt	1	APA		1700962	4/20/17		SM2520B
Total Coliform Bacteria	2613.0	10.0	MPN	10	AM		1700939	4/17/17	15:30	SM9223B
E. coli Bacteria	86.0	10.0	MPN	10	AM		1700939	4/17/17	15:30	SM9223B

Sample#: 39864-003

Sample ID: 9209

Matrix: Water

Sampled: 4/17/17 11:38

Parameter	Reporting		Instr Dil'n		Analyst	Prep Date	Analysis			Reference
	Result	Limit	Units	Factor			Batch	Date	Time	
Ammonia as N	< 0.5	0.5	mg/L	1	APA		1701036	4/26/17		SM4500NH3-D
Enterococci Bacteria	< 1.0	1.0	MPN	1	AM		1700937	4/17/17	15:15	Enterolert
Fluoride	< 0.5	0.5	mg/L	5	JZL		1701075	4/25/17	15:36	E300.0A
Salinity	2.9	2.0	ppt	1	APA		1700962	4/20/17		SM2520B
Total Coliform Bacteria	322.3	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B
E. coli Bacteria	1.0	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B

Sample#: 39864-004

Sample ID: 9062

Matrix: Water

Sampled: 4/17/17 12:16

Parameter	Reporting		Instr Dil'n		Analyst	Prep Date	Analysis			Reference
	Result	Limit	Units	Factor			Batch	Date	Time	
Ammonia as N	< 0.5	0.5	mg/L	1	APA		1701036	4/26/17		SM4500NH3-D
Enterococci Bacteria	18.1	1.0	MPN	1	AM		1700937	4/17/17	15:15	Enterolert
Fluoride	< 0.5	0.5	mg/L	5	JZL		1701075	4/25/17	15:52	E300.0A
Salinity	< 2.0	2.0	ppt	1	APA		1700962	4/20/17		SM2520B
Total Coliform Bacteria	>2419.6	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B
E. coli Bacteria	1413.6	1.0	MPN	1	AM		1700939	4/17/17	15:30	SM9223B



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

39864

ANALYSIS REQUEST

Company Name: Portsmouth DPW WTP
Company Address: 60 Freshet Rd. Madbury, NH
Report To: Jesse Pearce
Phone #: 603-957-2486
Invoice to: Jesse Pearce + Jati:
Email: jpearce@cityofportsmouth.com
☐ Hard Copy Invoice Required ☐ PO #

Project Name: April SW Sampling
Project #: _____
Project Location: NH MA ME VT
Accreditation Required? N/Y: _____
Protocol: RCRA SDWA NPDES
MCP NHDES DOD
Reporting QAPP GW-1 S-1
Limits: EPA DW Other
Quote # _____
☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
3986401	Marcy MH 7	✓	✓								4/17/17	11:24	JP
	5430 (total)											11:35	
												11:24	
												11:24	
												11:24	
												11:24	
												11:35	

- ☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC 8TEX MBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ GRO 8015 ☐ 1,4-Dioxane ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ EPH MADEP ☐ TPH Fingerprint ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ Apparent Color ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ Acidity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness ☒ Total Metals-list: KT ☐ Dissolved Metals-list: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TOC ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☒ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☒ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide ☐ Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde ☐ PFC Salinity Surfactants Enterococci ☐ Grab (S) or Composite (C)

TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☐
(10 Business Days)
*Date Needed _____

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

Send hard copy of results to 2

REPORTING INSTRUCTIONS

☐ PDF (e-mail address)

rcezzullo@cityofportsmouth.com

☒ HARD COPY REQUIRED

☐ EDD

680 Beverly Hill Rd. Portsmouth, NH 03820

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 2 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler:

Relinquished by:

Relinquished by:

Date 4/17/17 Time 11:45

Date _____ Time _____

Date _____ Time _____

Received by:

Received by:

Received by Laboratory:

Date _____ Time _____

Date _____ Time _____

Date 4/17/17 Time 11:45



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Portsmouth OPW WTP

Company Address: 60 Freshet Rd. Madbury, NH

Report To: Jesse Pearce

Phone #: 603-957-2436

Invoice to: Jesse Pearce + parti

Email: jpearce@cityofportsmouth.com

☐ Hard Copy Invoice Required ☐ PO # _____

Project Name: April SW Sampling

Project #: _____

Project Location: NH MA ME VT

Accreditation Required? N/Y: _____

Protocol: RCRA MCP SDWA NHDES NPDES DOD

Reporting Limits: QAPP EPA DW GW-1 Other S-1

Quote # _____

☐ NH Reimbursement Pricing

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 8260 MIBE, only	☐ VOC 8021VT	☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ NH List	☐ Gases-List:	☐ TPH	☐ DRD 8015	☐ EPH MADEP	☐ TPH Fingerprint	☐ 8270PAH	☐ 8270ABN	☐ 625	☐ EDB	☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB	☐ O&G 1664	☐ Mineral O&G SM5520F	☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color	☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Alkalinity	☐ Acidity	☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☐ Total Metals-list:	☐ Dissolved Metals-list:	☒ Ammonia	☐ COD	☐ TKN	☐ TON	☐ TOC	☐ T-Phosphorus	☐ Phenols	☐ Bacteria P/A	☒ Bacteria MPN	☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Nitrate	☐ Nitrite	☐ Chloride	☐ Sulfate	☐ Bromide	☒ Fluoride	☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitibility/FP	☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract:	☐ Grain Size	☐ Herbicides	☐ Formaldehyde	☐ PFC	<u>Salinity</u>	<u>Surfactants</u>	<u>Enterococci</u>	Grab (G) or Composite (C)
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Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix	Preservation Method	Sampling
			WATER SOLID OTHER	HCl HNO ₃ H ₂ SO ₄ NaOH MeOH	DATE TIME SAMPLER
35864-02	PP Outfall	7 X (total)			4/17/17 10:55 JP
					10:50
					10:52
					10:53
					10:50
					10:52
					10:48

TAT REQUESTED

Priority (24 hr)* ☐

Expedited (48 hr)* ☐

Standard (10 Business Days) ☐

*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

Send hard copy of results to 2

REPORTING INSTRUCTIONS

☒ PDF (e-mail address) rpezzullo@cityofportsmouth.com

☒ HARD COPY REQUIRED ☐ EDD 6800 Peverly H.71 Rd. Portsmouth, NH 03820

RECEIVED ON ICE

☒ YES ☐ NO

TEMPERATURE 2 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: Jesse Pearce

Date: 4/17/17 Time: 1405

Relinquished by: _____

Date: _____ Time: _____

Relinquished by: _____

Date: _____ Time: _____

Received by: _____

Date: _____ Time: _____

Received by: _____

Date: _____ Time: _____

Received by Laboratory: [Signature]

Date: 4/17/17 Time: 1405



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: Portsmouth WTP DPW

Company Address: 60 Freshet Rd. Madbury

Report To: Jesse Pearce

Phone #: 603-957-2436

Invoice to: Jesse Pearce & patt:

Email: jpearce@cityofportsmouth.com

☐ Hard Copy Invoice Required ☐ PO #

Project Name: April SW Sampling

Project #: _____

Project Location: NH MA ME VT

Accreditation Required? N/Y: _____

Protocol: RCRA SDWA NPDES
MCP NHDES DOD

Reporting Limits: QAPP GW-1 S-1
EPA DW Other

Quote # _____

☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
39864-03	9209	1	✓								4/17/17	11:40	JP
		1	✓									11:40	
		1	✓									11:40	
		1	✓									11:38	
		1	✓									11:40	
		1	✓									11:40	
		1	✓									11:38	

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 8260 MBE, only ☐ VOC 8021VT

☐ VOC 624 ☐ VOC BTEX MBE, only ☐ VOC 8015 ☐ 1,4-Dioxane

☐ VPH MADEP ☐ GRO 8015 ☐ VOC 524.2 NH List ☐ Gases-List:

☐ TPH ☐ DRD 8015 ☐ EPH MADEP ☐ TPH Fingerprint

☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB

☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB

☐ O&G 1664 ☐ Mineral O&G SM5520F

☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ Apparent Color

☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ Acidity

☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness

☒ Total Metals-list: h+

☐ Dissolved Metals-list:

☒ Ammonia ☐ COD ☐ TKN ☐ TON ☐ TOC

☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☒ Bacteria MPN

☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P

☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☒ Fluoride

☐ Corrosivity ☐ Reactive CN ☐ Ignitibility/FP

☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide

Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde ☐ PFC

Salinity

Surfactants

Enterococci

(Grab (G) or Composite (C))

TAT REQUESTED

Priority (24 hr)* ☐

Expedited (48 hr)* ☐

Standard (10 Business Days) ☐

*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS of results
Send hard copy to rpezzullo@cityofportsmouth.com

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) _____

☒ HARD COPY REQUIRED ☐ EDD 600 Beverly Hill Rd. Portsmouth, NH 03820

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 12 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: Jesse Pearce Date: 4/17/17 Time: 11:40

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by Laboratory: [Signature] Date: 4/17/17 Time: 11:40



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

39864

ANALYSIS REQUEST

Company Name: Portsmouth DPW WTP

Company Address: 600 Freshet Rd. Madbury NH

Report To: Jesse Pearce

Phone #: 603-957-2436

Invoice to: Jesse Pearce + Pauli

Email: jpearce@cityofportsmouth.com

☐ Hard Copy Invoice Required ☐ PO #

Project Name: April SW Sampling

Project #: _____

Project Location: NH MA ME VT

Accreditation Required? N/Y:

Protocol: RCRA SDWA NPDES
MCP NHDES DOD

Reporting QAPP GW-1 S-1
Limits: EPA DW Other

Quote # _____

☐ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
39864-04	9062	1	✓								4/17/17	12:20	JP
		1	✓									12:19	
		1	✓									12:16	
		1	✓									12:18	
		1	✓									12:20	
		1	✓									12:19	
		1	✓									12:18	

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 8260 MBE, only ☐ VOC 8021VT

☐ VPH MADEP ☐ GRO 8015 ☐ 1,4-Dioxane

☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:

☐ TPH ☐ DRD 8015 ☐ EPH MADEP ☐ TPH Fingerprint

☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB

☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB

☐ O&G 1664 ☐ Mineral O&G SM5520F

☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ Apparent Color

☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ Acidity

☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness

Total Metals-list: hr

☐ Dissolved Metals-list:

☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TOC

☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☒ Bacteria MPN

☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P

☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☒ Bromide ☒ Fluoride

☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP

☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide

Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde ☐ PFC

Salinity

Surfactants

Enterococci

Grab (G) or Composite (C) JP

TAT REQUESTED

Priority (24 hr)* ☐

Expedited (48 hr)* ☐

Standard (10 Business Days) ☐

*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

Send Hard copy of results to rpezzullo@cityofportsmouth.com

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) rpezzullo@cityofportsmouth.com

☒ HARD COPY REQUIRED ☐ EDD 680 Peverly Hill Rd. Portsmouth, NH

RECEIVED ON ICE ☒ YES ☐ NO

TEMPERATURE 2 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: Jesse Pearce Date 4/17/17 Time 14:05

Relinquished by: _____ Date _____ Time _____

Relinquished by: _____ Date _____ Time _____

Received by: 03520 Date _____ Time _____

Received by: _____ Date _____ Time _____

Received by Laboratory: [Signature] Date 4/17/17 Time 14:05

Laboratory Report



Absolute Resource *associates*

124 Heritage Avenue Portsmouth NH 03801

Ray Pezzullo
Portsmouth Water and Sewer
680 Peverly Hill Road
Portsmouth, NH 03801

PO Number: None
Job ID: 40078
Date Received: 5/3/17

Project: IDDE-Marcy St.

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

A handwritten signature in black ink, appearing to read 'Sue Sylvester', followed by the text '(for)' in parentheses.

Sue Sylvester
Principal, General Manager

Date of Approval: 5/8/2017
Total number of pages: 6

Absolute Resource Associates Certifications

New Hampshire 1732
Maine NH903

Massachusetts M-NH902

Project ID: IDDE-Marcy St.

Job ID: 40078

Sample#: 40078-001

Sample ID: OF 12564

Matrix: Water

Sampled: 5/3/17 12:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.7	0.1	mg/L	1	AS		1701185	5/5/17		SM5540Cmod

Sample#: 40078-002

Sample ID: 9254

Matrix: Water

Sampled: 5/3/17 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.2	0.1	mg/L	1	AS		1701185	5/5/17		SM5540Cmod

Sample#: 40078-003

Sample ID: 9210

Matrix: Water

Sampled: 5/3/17 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	0.2	0.1	mg/L	1	AS		1701185	5/5/17		SM5540Cmod

Sample#: 40078-004

Sample ID: 9062

Matrix: Water

Sampled: 5/3/17 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Surfactants (MBAS)	< 0.1	0.1	mg/L	1	AS		1701185	5/5/17		SM5540Cmod

Project ID: IDDE-Marcy St.

Job ID: 40078

Sample#: 40078-001

Sample ID: OF 12564

Matrix: Water

Sampled: 5/3/17 12:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	250	5.0	mg/L	10	AM	5/4/17	9627	5/4/17	23:00	E200.8

Sample#: 40078-002

Sample ID: 9254

Matrix: Water

Sampled: 5/3/17 12:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	49	0.5	mg/L	1	AM	5/4/17	9627	5/4/17	16:12	E200.8

Sample#: 40078-003

Sample ID: 9210

Matrix: Water

Sampled: 5/3/17 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	44	0.5	mg/L	1	AM	5/4/17	9627	5/4/17	16:18	E200.8

Sample#: 40078-004

Sample ID: 9062

Matrix: Water

Sampled: 5/3/17 13:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Potassium	17	0.5	mg/L	1	AM	5/4/17	9627	5/4/17	16:29	E200.8

Project ID: IDDE-Marcy St.

Job ID: 40078

Sample#: 40078-001

Sample ID: OF 12564

Matrix: Water

Sampled: 5/3/17 12:10

Parameter	Result	Reporting		Units	Instr Dil'n		Prep		Batch	Analysis		
		Limit	DL		Factor	Analyst	Date	Time		Date	Time	Reference
Ammonia as N	0.3 J	0.5	0.11	mg/L	1	APA			1701149	5/4/17		SM4500NH3-D
Enterococci Bacteria	116.2	1.0		MPN	1	AM			1701162	5/3/17	15:40	Enterolert
Fluoride	0.4 J	0.5	0.015	mg/L	5	JZL			1701187	5/4/17	14:05	E300.0A
Note: Dilution due to matrix interference.												
Total Coliform Bacteria	>2419.6	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B
E. coli Bacteria	113.2	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B

Sample#: 40078-002

Sample ID: 9254

Matrix: Water

Sampled: 5/3/17 12:45

Parameter	Result	Reporting		Units	Instr Dil'n		Prep		Batch	Analysis		
		Limit	DL		Factor	Analyst	Date	Time		Date	Time	Reference
Ammonia as N	0.4 J	0.5	0.11	mg/L	1	APA			1701149	5/4/17		SM4500NH3-D
Enterococci Bacteria	20.3	1.0		MPN	1	AM			1701162	5/3/17	15:40	Enterolert
Fluoride	0.3 J	0.5	0.015	mg/L	5	JZL			1701187	5/4/17	14:22	E300.0A
Note: Dilution due to matrix interference.												
Total Coliform Bacteria	1553.1	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B
E. coli Bacteria	32.3	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B

Sample#: 40078-003

Sample ID: 9210

Matrix: Water

Sampled: 5/3/17 13:00

Parameter	Result	Reporting		Units	Instr Dil'n		Prep		Batch	Analysis		
		Limit	DL		Factor	Analyst	Date	Time		Date	Time	Reference
Ammonia as N	0.3 J	0.5	0.11	mg/L	1	APA			1701149	5/4/17		SM4500NH3-D
Enterococci Bacteria	32.7	1.0		MPN	1	AM			1701162	5/3/17	15:40	Enterolert
Fluoride	0.3 J	0.5	0.015	mg/L	5	JZL			1701187	5/4/17	14:38	E300.0A
Note: Dilution due to matrix interference.												
Total Coliform Bacteria	>2419.6	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B
E. coli Bacteria	38.8	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B

Project ID: IDDE-Marcy St.

Job ID: 40078

Sample#: 40078-004

Sample ID: 9062

Matrix: Water

Sampled: 5/3/17 13:30

Parameter	Result	Reporting		Units	Instr Dil'n		Prep		Batch	Analysis		
		Limit	DL		Factor	Analyst	Date	Time		Date	Time	Reference
Ammonia as N	0.3 J	0.5	0.11	mg/L	1	APA			1701149	5/4/17		SM4500NH3-D
Enterococci Bacteria	>2419.6	1.0		MPN	1	AM			1701162	5/3/17	15:40	Enterolert
Fluoride	0.3 J M	0.5	0.015	mg/L	5	JZL			1701187	5/4/17	14:54	E300.0A
M = The recovery for the matrix spike was 84%. The acceptance criteria is 90-110%. All other associated QC samples were acceptable.												
Note: Dilution due to matrix interference.												
Total Coliform Bacteria	>2419.6	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B
E. coli Bacteria	>2419.6	1.0		MPN	1	AM			1701163	5/3/17	15:30	SM9223B

J=The analytical result was below the instrument calibration range, but above the method detection limit.

Absolute Resource
associates



124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001

absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

40078

ANALYSIS REQUEST

Company Name: <u>City of Portsmouth</u>	Project Name: <u>IDDE-Marcy St</u>
Company Address: <u>68 Beverly Rd, Portsmouth, NH</u>	Project #:
Report To: <u>Ray Pezzullo</u>	Project Location: <u>NH</u> MA ME VT
Phone #: <u>603-766-1755</u>	Accreditation Required? N/Y: _____
Invoice to: <u>City of Portsmouth</u>	Protocol: RCRA SDWA NPDES MCP NHDES DOD
□ Email: <u>rpezzullo@cityofportsmouth.com</u> <u>laurad@benvironmental.com</u>	Reporting QAPP GW-1 S-1 Limits: EPA DW Other
□ Hard Copy Invoice Required □ PO # _____	Quote # _____
	□ NH Reimbursement Pricing

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix			Preservation Method					Sampling		
			WATER	SOLID	OTHER	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	DATE	TIME	SAMPLER
40078-01	OF 12504	6	x								5/3/17	12:10	LD
-02	9254	6	x									12:45	LD
-03	9210	6	x									1:00	LD
-04	9062	6	x									1:30	LD

☐ VOC 8260	☐ VOC 8260 NHDES	☐ VOC 8260 MADEP	☐ VOC 8260 MIBE, only	☐ VOC 8021VT	☐ VPH MADEP	☐ GRO 8015	☐ 1,4-Dioxane	☐ VOC 524.2	☐ VOC 524.2 NH List	☐ Gases-List:	☐ TPH	☐ DRD 8015	☐ EPH MADEP	☐ TPH Fingerprint	☐ 8270PAH	☐ 8270ABN	☐ 625	☐ EDB	☐ 8082 PCB	☐ 8081 Pesticides	☐ 608 Pest/PCB	☐ O&G 1664	☐ Mineral O&G SM5520F	☐ pH	☐ BOD	☐ Conductivity	☐ Turbidity	☐ Apparent Color	☐ TSS	☐ TDS	☐ TS	☐ TVS	☐ Alkalinity	☐ Acidity	☐ RCRA Metals	☐ Priority Pollutant Metals	☐ TAL Metals	☐ Hardness	☒ Total Metals-list: <u>Potassium</u>	☐ Dissolved Metals-list:	☒ Ammonia	☐ COD	☐ TKN	☐ TON	☐ TOC	☒ T-Phosphorus	☐ Phenols	☐ Bacteria P/A	☒ Bacteria MPN	<u>ECOL</u>	☐ Cyanide	☐ Sulfide	☐ Nitrate + Nitrite	☐ Ortho P	☐ Nitrate	☐ Nitrite	☐ Chloride	☐ Sulfate	☒ Fluoride	☐ Corrosivity	☐ Reactive CN	☐ Reactive S-	☐ Ignitibility/FP	☐ TCLP Metals	☐ TCLP VOC	☐ TCLP SVOC	☐ TCLP Pesticide	☐ Subcontract: ☐ Grain Size	☐ Herbicides	☐ Formaldehyde	☐ PFC	<u>surfactants</u>	<u>entero</u>	Grab (G) or Composite (C)
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TAT REQUESTED

Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard ☐
(10 Business Days)
*Date Needed 5/4

See absoluteresourceassociates.com
for sample acceptance policy and
current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS

☐ HARD COPY REQUIRED ☐ EDD

☒ PDF (e-mail address) laurad@benvironmental.com

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 7 °C

CUSTODY RECORD

QSD-01 Revision 12/22/16

Relinquished by Sampler: <u>Laura Jemie</u>	Date <u>5/3/17</u>	Time <u>2:08pm</u>	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time