

COMPLETE ANALYSIS LABORATORIES INC.



NJDEPE Certified Laboratory No. 14964
973-335-CALI
FAX 973-335-0556

1259 Route 46, Building #4
Parsippany, NJ 07054-4909

Mr. Bob Masson
Morristown National Historic Park
Washington Place
Morristown, NJ 07960

ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805074A

Field I.D.: IG2

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	77.0	4.0
TOTAL PHOSPHORUS	365.2	0.031	0.01
TOTAL DISSOLVED SOLIDS	160.1	134	1.0
NITRATE, NITROGEN	353.3	0.76	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	38.4	10.0
AMMONIA, NITROGEN	4500 F	0.37	0.1

Approved By:

Zvi Blank, Ph.D., CHMM
Laboratory Director

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805075

Field I.D.: IG1

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	76.0	4.0
TOTAL PHOSPHORUS	365.2	0.027	0.01
TOTAL DISSOLVED SOLIDS	160.1	117	1.0
NITRATE, NITROGEN	353.3	0.63	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	37.0	10.0
AMMONIA, NITROGEN	4500 F	0.94	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805076

Field I.D.: PR2

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	73.0	4.0
TOTAL PHOSPHORUS	365.2	0.048	0.01
TOTAL DISSOLVED SOLIDS	160.1	104	1.0
NITRATE, NITROGEN	353.3	0.35	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	53.5	10.0
AMMONIA, NITROGEN	4500 F	1.39	0.1

Approved By:

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805077

Field I.D.: PR1

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	77.0	4.0
TOTAL PHOSPHORUS	365.2	0.027	0.01
TOTAL DISSOLVED SOLIDS	160.1	168	1.0
NITRATE, NITROGEN	353.3	0.32	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	57.4	10.0
AMMONIA, NITROGEN	4500 F	1.20	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805078

Field I.D.: JB2

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	75.0	4.0
TOTAL PHOSPHORUS	365.2	0.027	0.01
TOTAL DISSOLVED SOLIDS	160.1	83.0	1.0
NITRATE, NITROGEN	353.3	0.31/0.32	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	32.6	10.0
AMMONIA, NITROGEN	4500 F	1.29	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805079

Field I.D.: EP2

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	79.0	4.0
TOTAL PHOSPHORUS	365.2	0.017	0.01
TOTAL DISSOLVED SOLIDS	160.1	70.0	1.0
NITRATE, NITROGEN	353.3	0.52	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	28.8	10.0
AMMONIA, NITROGEN	4500 F	1.35	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805080

Field I.D.: CSP

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	88.0	4.0
TOTAL PHOSPHORUS	365.2	0.091	0.01
TOTAL DISSOLVED SOLIDS	160.1	84.0	1.0
NITRATE, NITROGEN	353.3	ND(<0.05)	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	33.6/34.6	10.0
AMMONIA, NITROGEN	4500 F	1.39	0.1

ND = Not Detected

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805081

Field I.D.: WP1

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	89.0	4.0
TOTAL PHOSPHORUS	365.2	0.027	0.01
TOTAL DISSOLVED SOLIDS	160.1	142	1.0
NITRATE, NITROGEN	353.3	0.49	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	49.9	10.0
AMMONIA, NITROGEN	4500 F	1.32	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805082

Field I.D.: EP1

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	62.0	4.0
TOTAL PHOSPHORUS	365.2	0.022	0.01
TOTAL DISSOLVED SOLIDS	160.1	75.0	1.0
NITRATE, NITROGEN	353.3	0.34	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	40.8	10.0
AMMONIA, NITROGEN	4500 F	1.37	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805083

Field I.D.: WP2

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	63.0	4.0
TOTAL PHOSPHORUS	365.2	0.021	0.01
TOTAL DISSOLVED SOLIDS	160.1	68.0	1.0
NITRATE, NITROGEN	353.3	0.22	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	32.2	10.0
AMMONIA, NITROGEN	4500 F	1.55	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998

PROJECT NO: 982084

Lab. I.D. : 9805084

Field I.D.: FR

SAMPLE: Liquid, sampled by customer on 8/31/98

Parameter (Unit)	Method Number	Result (mg/L)	MDL (mg/L)
TOTAL SUSPENDED SOLIDS	160.2	40.0/39.0	4.0
TOTAL PHOSPHORUS	365.2	0.019	0.01
TOTAL DISSOLVED SOLIDS	160.1	126/125	1.0
NITRATE, NITROGEN	353.3	0.30	0.05
ALKALINITY, TOTAL (as CaCO ₃)	310.1	50.2	10.0
AMMONIA, NITROGEN	4500 F	2.00/2.01	0.1

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ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998
PROJECT NO : 982084
PARAMETER : ALUMINUM
METHOD NO. : 200.7
UNIT : µg/L

SAMPLE: Liquid, sampled by customer on 8/31/98

Lab ID Number	Field ID Number	Result	MDL
9805074 A	IG2	ND(<200)	200
9805075	IG1	ND(<200)	200
9805076	PR2	ND(<200)	200
9805077	PR1	ND(<200)	200
9805078	JB2	ND(<200)	200
9805079	EP2	ND(<200)	200
9805080	CSP	ND(<200)	200
9805081	WP1	ND(<200)	200
9805082	EP1	ND(<200)	200
9805083	WP2	ND(<200)	200
9805083	FR	ND(<200)	200

ND = Not Detected

Submitted By

Zvi Blank, Ph.D., CHMM
Laboratory Director

CHAIN OF CUSTODY

PAGE 1 OF 2

(Lab use only) No. 98084

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1259 ROUTE 46 BLDG. # 4
PARSIPPANY, NJ 07054-4909
PHONE: (973) 335-CALI
FAX: (973) 335-0556
NJDEP LAB CERTIFICATION # 14964

DELIVERABLES: STD REDUCED FULL
(CIRCLE ONE) OTHER (Specify) _____

CLIENT	Merristown National Historical Park		
ADDRESS	Washington Place		
CITY	Merristown		
STATE	NJ	ZIP	07960

CONTACT	Heidi Sesinski Bob Nguyen	PHONE	908-766-6541
PROJECT	P 98084		
SAMPLER	name Heidi Sesinski sign <i>[Signature]</i>		
WITNESSED BY	name _____		

CALI LAB ID	FIELD ID	SAMPLING DATE/TIME	M	T	No.	P	ANALYSIS REQUIRED
9805074A	IG2	8/1/93 9:15	A	G	1	C	U _{H2} , U _{CO3} , P, Al TSS, TDS, Aik, Chloride
9805075	IG1	" 9:30	A	G	1	C	" "
9805076	PR2	" 10:00	A	G	1	C	" "
9805077	PR1	" 10:30	A	G	1	C	" "
9805078	JB2	" 11:00	A	G	1	C	" "
9805079	EP2	" 12:30	A	G	1	C	" "
9805080	CSP	" 12:45	A	G	1	C	" "
9805081	WP1	" 1:30	A	G	1	C	" "
9805082	EP1	" 1:50	A	G	1	C	" "
REMARKS							

RELINQUISHED BY		RECEIVED BY		DATE	TIME	METHOD OF RELINQUISH.	RECEIVING ORGANIZATION
NAME	SIGNATURE	NAME	SIGNATURE				
Heidi Sesinski	<i>[Signature]</i>	H. Baner	<i>[Signature]</i>	9/1/93	10:50	Drop off	CALI

TURNAROUND TIME:

PRIORITY AUTHORIZATION:

M = MATRIX	A - AQUEOUS SL-SLUDGE	P - POTABLE WATER SO - SOLID	S - SOIL X - OTHER	O - OIL
T = TYPE	C - COMPOSITE	G - GRAB	No. = NUMBER OF CONTAINERS	
P = PRESERVATIVE	H ₂ -H ₂ SO ₄	Hn-HNO ₃	H-HCl	N-NaOH
		A-ASCORBIC ACID	C - COOL TO 4 °C	

CHAIN OF CUSTODY

PAGE 2 OF 2

(Lab use only) No. 982084

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FAX: (973) 335- 0556

NJDEP LAB CERTIFICATION # 14964

DELIVERABLES:

(CIRCLE ONE)

(STD)

REDUCED

FULL

OTHER (Specify)

CLIENT	Morristown National Historical Park		
ADDRESS	Washington Place		
CITY	Morristown		
STATE	NJ	ZIP	07960

CONTACT	Heidi Sosinski Bob Messer	PHONE	908-766-6541
PROJECT	P 982084		
SAMPLER	name Heidi Sosinski		
WITNESSED BY	name		

[illegible]

RELINQUISHED BY		RECEIVED BY		DATE	TIME	METHOD OF RELINQUISH.	RECEIVING ORGANIZATION
NAME	SIGNATURE	NAME	SIGNATURE				
Heidi Sesonski		H. Bandy		4/1/93	10:50	Drop off	LALE

TURNAROUND TIME:

PRIORITY AUTHORIZATION:

M = MATRIX	A - AQUEOUS SL-SLUDGE	P - POTABLE WATER SO - SOLID	S - SOIL X - OTHER	O - OIL
T= TYPE	C - COMPOSITE	G - GRAB	No. = NUMBER OF CONTAINERS	
P = PRESERVATIVE	H ₂ - H ₂ SO ₄	Hn-HNO ₃	H-HCl	N-NaOH
	A-ASCORBIC ACID			C - COOL TO 4 °C

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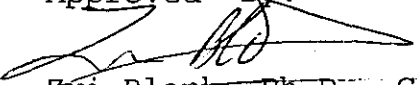
ANALYSIS REPORT

REPORT DATE: SEPTEMBER 15, 1998
PROJECT NO : 982084
PARAMETER : CHLORIDE
METHOD NO. : SM4500-B
UNIT : mg/L

SAMPLE: Liquid, sampled by customer on 8/31/98

Lab ID Number	Field ID Number	Result	MDL
9805074 A	IG2	25.3	1.0
9805075	IG1	23.8	1.0
9805076	PR2	27.4	1.0
9805077	PR1	30.4	1.0
9805078	JB2	19.3	1.0
9805079	EP2	8.62/8.62	1.0
9805080	CSP	13.2	1.0
9805081	WP1	3.55	1.0
9805082	EP1	5.58	1.0
9805083	WP2	2.03	1.0
9805084	FR	4.21	1.0

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