US EPA ARCHIVE DOCUMENT

SDMS DocID 282311

Olin Corporation

Wilmington, Massachusetts Facility

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Supplemental Phase II Report

Attachment A

Laboratory Analytical Data

Volume I: 1/12/95 to 10/18/95 Data

June 1997

Prepared by:

ABB Environmental Services, Inc.

Geomega

PTI Environmental Services

SMITH Technology Corporation

DATE_TAKEN	MATRIXTYPE	QCed	COCSample	Location	LabSampleID
1/11/95	GW	☑	GW-40-D	GW-40D	WL0048-6 S000002
1/11/95	GW	☑	GW-40-S	GW-40S	WL0048-5 S000001
1/11/95	GW	☑	GW-42-D	GW-42D	WL0048-8 S000005
1/11/95	GW	☑	GW-42-D	GW-42D	WL0048-1 S000006
1/11/95	GW	☑	GW-42-S	GW-42S	WL0048-7 S000003
1/11/95	GW	☑	GW-50-S	GW-50S	WL0048-4 S000007
1/12/95	GW	☑	GW-50-D	GW-50D	WL0054-1 S000010
1/12/95	GW	☑	GW-58-D	GW-58D	WL0054-5 S000013
1/12/95	GW	☑	GW-58-S	GW-58S	WL0054-4 S000012
1/12/95	GW	☑	GW-62-D	GW-62D	WL0054-3 S000009
1/12/95	GW	☑	GW-62-S	GW-62S	WL0054-2 S000008
1/13/95	GW	☑	GW-36	GW-36	WL0062-3 S000016
1/13/95	GW	☑	GW-45-D	GW-45D	WL0062-1 S000014
1/13/95	GW	☑	GW-45-S	GW-45S	WL0062-2 S000015
1/16/95	GW	☑	GW-62-BR	GW-62BR	WL0069-6 S000011
1/16/95	GW	☑	GW-62-BRD	GW-62BRD	42836-006 S0000011
1/16/95	GW	☑	GW-64-D	GW-64D	WL0069-5 S000020
1/16/95	GW	☑	GW-64-S	GW-64S	WL0069-4 S000019
1/16/95	GW	☑	GW-64-S	GW-64S	WL0069-1 S000018
2/3/95	GW	☑	GW-10-S	GW-10S	42785-002 S000009
2/3/95	GW	☑	GW-11	GW-11	42785-004 S000012
2/3/95	GW	☑	GW-19-S	GW-19S	42773-003 S000003
2/3/95	GW	☑	GW-24	GW-24	42785-001 S000010
2/3/95	GW	☑	GW-25	GW-25	42773-006 S000007
2/3/95	GW	☑	GW-26	GW-26	42785-003 S000008
2/3/95	GW	☑	GW-35-S	GW-35S	42773-002 S000002
2/3/95	GW	☑	GW-39	GW-39	42773-005 S000006
2/3/95	GW	☑	GW-42-S	GW-42S	42773-001 S000001
7/18/95	GW	☐	GW-42-S	GW-42S	WL1085-6 S000003
7/19/95	GW	☐	EQUIPMENT BLANK	QC-SAMPLE	WL1098-12 S000010
7/19/95	GW	☑	GW-08	GW-8	WL1098-22 S000008
7/19/95	GW	☑	GW-08	GW-8	WL1098-10 S000008
7/19/95	GW	☑	GW-42-S	GW-42S	WL1098-5 S000003
7/19/95	GW	☑	GW-42-S	GW-42S	WL1098-17 S000003
7/19/95	GW	☑	GW-50-S	GW-50S	WL1098-9 S000007
7/19/95	GW	☑	GW-50-S	GW-50S	WL1098-21 S000007
7/19/95	GW	☑	GW-56-S	GW-56S	WL1098-23 S000009
7/19/95	GW	☑	GW-56-S	GW-56S	WL1098-11 S000009
7/19/95	GW	☑	GW-76-S	GW-76S	WL1098-18 S000004
7/19/95	GW	☑	GW-76-S	GW-76S	WL1098-6 S000004
7/19/95	GW	☑	GW-77-S	GW-77S	WL1098-4 S000002
7/19/95	GW	☑	GW-77-S	GW-77S	WL1098-13 S000001
7/19/95	GW	☑	GW-77-S	GW-77S	WL1098-16 S000002
7/19/95	GW	☑	GW-77-S	GW-77S	WL1098-1 S000001
7/19/95	GW	☑	GW-78-S	GW-78S	WL1098-19 S000005
7/19/95	GW	☑	GW-78-S	GW-78S	WL1098-7 S000005
7/19/95	GW	☑	GW-79-S	GW-79S	WL1098-8 S000006

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DATE_TAKEN	MATRIXTYPE	QCed	COCSample	Location	LabSampleID
7/19/95	GW	☑	GW-79-S	GW-79S	WL1098-20 S000006
7/19/95	SW	☑	SW-12	GSW-12	WL1098-25 S000011
7/19/95	SW	☑	SW-12	GSW-12	WL1098-32 S000011
7/19/95	SW	☑	SW-14	SW-18	WL1098-36 S000014
7/19/95	SW	☑	SW-14	SW-18	WL1098-28 S000014
7/19/95	SW	☑	SW-14	SW-18	WL1098-29 S000014
7/19/95	SW	☑	SW-14	SW-18	WL1098-35 S000014
7/19/95	SW	☑	SW-16	SW-9	WL1098-27 S000013
7/19/95	SW	☑	SW-16	SW-9	WL1098-34 S000013
7/19/95	SW	☑	SW-17	SW-11	WL1098-26 S000012
7/19/95	SW	☑	SW-17	SW-11	WL1098-33 S000012

US EPA ARCHIVE DOCUMENT

SMITH

Volume I - Laboratory Analytical Data

01/12/95 to 10/18/95

Work Order No.	Media
WL-0055,42786	GW
WL-0054,42785	GW
WL-0062, 42801	GW
WL-0077, 42830	GW
42801	GW
42830	GW
42836	GW
WL-0185, 42953	GW
WL-0195,42965	GW
WL-0202	SED
42953	GW
WL-0201	GW
42965	GW
WL-0226	SED
WL-0817	SED
43911	GW&SW
TOC	GW
WL-0668	GW
WL-0682	GW
WL-0848	GW
WL-0925	SED
WL-1098	GW
WL-1389	SW
WL-1612	GW
WL-1613	GW
WL-1595	GW
WL-1622	GW
WL-1628	GW&SW

GW = Groundwater
SW = Surface Water
MLT = Multiple Media
SED = Sediment

US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0055-1
Report Date: 01/30/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42D PRE-PURGE	Aqueous	CLIENT	01/11/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Dissolved	5200	mg/L	5000	0.015	200.7/6010	01/23/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

LJO/ejnejn/kew
LA20IA1
CC: OLIN(TN)
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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0055-2
Report Date: 01/30/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50D PRE-PURGE	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0055-3
Report Date: 01/30/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62D PRE-PURGE	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

Lab Number : WL-0055-4
Report Date: 01/30/95
PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58D PRE-PURGE	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010

01/30/95

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-1
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000010	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.11	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	<0.025	mg/L	5.0	0.005	206.2/7060	01/24/95	KW	2,3
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	410	mg/L	5.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	4,5
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	0.26	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	01/23/95	KW	2,3
Magnesium, Dissolved	97.	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	13	mg/L	5.0	0.005	200.7/6010	01/26/95	KW	1
Potassium, Dissolved	46	mg/L	1.0	0.50	200.7/6010	01/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 01/13/95 by GFB using 7195
(5) Sample preparation was begun 65 minutes after the expiration of the analytical hold time.

02/02/95

LJO/ejngbp(dw)/kew
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-1
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000010	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	6.3	mg/L	2.0	0.10	200.7/6010	01/30/95	KW	1
Sodium, Dissolved	1500	mg/L	50	0.10	200.7/6010	01/23/95	KW	2

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(1) Sample Preparation on 01/27/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

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Lab Number : WL-0054-1
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000010	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	550.	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.77	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	33	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	0.19	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	6600	mg/L	5.0	10	160.1	01/17/95	BC	2

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(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000008	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	0.012	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	36	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	11	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	5.5	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	5.0	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	7.8	mg/L	1.0	0.50	200.7/6010	01/26/95	KW	1
Silicon, Dissolved	5.6	mg/L	2.0	0.10	200.7/6010	01/30/95	KW	4

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(1) Sample Preparation on 01/20/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) Sample Preparation on 01/13/95 by GFB using 7195
(4) Sample Preparation on 01/27/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew
LA20IA1
CC: OLIN(TN)
ATTN:STEVE MORROW
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000008	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	28	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1

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(1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000008	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	71.	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	2.2	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	3.8	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	270.	mg/L	1.0	10	160.1	01/16/95	JF	2

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(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/13/95 by JF

02/02/95

LJO/ejngbp(dw)

CC: OLIN(TN)
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BCM:RICK SACKS
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-3
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000009	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	29	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	9.3	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	1.4	mg/L	1.0	0.005	200.7/6010	01/24/95	KW	1
Potassium, Dissolved	2.7	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	01/30/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) Sample Preparation on 01/13/95 by GFB using 7195
(4) Sample Preparation on 01/27/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew
LA20IA1
CC: OLIN(TN)
ATTN:STEVE MORROW
BCM:RICK SACKS
PTI:COLLEEN CUSHING

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-3
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000009	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	42	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1

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(1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kew
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Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000009	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	58.	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.32	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	2.1	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	290.	mg/L	1.0	10	160.1	01/16/95	JF	2

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(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/13/95 by JF

02/02/95

LJO/ejngbp(dw)

CC: OLIN(TN)
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-4
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000012	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	16	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/23/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	2.6	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	0.14	mg/L	1.0	0.005	200.7/6010	01/24/95	KW	1
Potassium, Dissolved	4.1	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1
Silicon, Dissolved	4.7	mg/L	1.0	0.10	200.7/6010	01/30/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) Sample Preparation on 01/13/95 by GFB using 7195
(4) Sample Preparation on 01/27/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kaw
LA20IA1
CC: OLIN(TN)
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Lab Number : WL-0054-4
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000012	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	96	mg/L	2.0	0.10	200.7/6010	01/24/95	KW	1

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(1) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kaw
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000012	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	3.4	mg/L	4.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1.1	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	330.	mg/L	1.0	10	160.1	01/16/95	JF	2

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(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/13/95 by JF

02/02/95

LJO/ejngbp(dw)

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0054-5
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
S000013	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.44	mg/L	1.0	0.10	200.7/6010	01/23/95	KW	1
Arsenic, Dissolved	<0.025	mg/L	5.0	0.005	206.2/7060	01/24/95	KW	2,3
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	01/23/95	KW	1
Calcium, Dissolved	280	mg/L	5.0	0.050	200.7/6010	01/23/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/23/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	4
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	77	mg/L	5.0	0.025	200.7/6010	01/24/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	01/26/95	KW	2,3
Magnesium, Dissolved	84.	mg/L	1.0	0.050	200.7/6010	01/23/95	KW	1
Manganese, Dissolved	29	mg/L	5.0	0.005	200.7/6010	01/24/95	KW	1
Potassium, Dissolved	29	mg/L	1.0	0.50	200.7/6010	01/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/20/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 01/13/95 by GFB using 7195

02/02/95

LJO/ejngbp(dw)/kaw
LA20IA1
CC: OLIN(TN)
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000013	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	11	mg/L	5.0	0.10	200.7/6010	01/30/95	KW	1
Sodium, Dissolved	1000	mg/L	20	0.10	200.7/6010	01/24/95	KW	2

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(1) Sample Preparation on 01/27/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kaw
LA20IA1
CC: OLIN(TN)
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000013	Aqueous	CLIENT	01/12/95	01/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	130.	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.082	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	46	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	5500	mg/L	5.0	10	160.1	01/17/95	BC	2

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(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp(dw)

CC: OLIN(TN)
ATTN:STEVE MORROW
BCM:RICK SACKS
PTI:COLLEEN CUSHING

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-1
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000014	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1200.	mg/L	50	0.10	200.7/6010	01/25/95	KW	1
Arsenic, Dissolved	<0.25	mg/L	50	0.005	206.2/7060	01/24/95	KW	2,3
Barium, Dissolved	0.037	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Calcium, Dissolved	690.	mg/L	20	0.050	200.7/6010	01/25/95	KW	1
Chromium, Dissolved	710	mg/L	200	0.015	200.7/6010	01/26/95	KW	1
Chromium, Hexavalent	16	mg/L	5.0	0.015	6010	01/16/95	KW	4
Chromium, Trivalent	690	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	1700	mg/L	200	0.025	200.7/6010	01/26/95	KW	1
Lead, Dissolved	<0.25	mg/L	50	0.005	239.2/7421	01/26/95	KW	2,3
Magnesium, Dissolved	1000.	mg/L	20	0.050	200.7/6010	01/25/95	KW	1
Manganese, Dissolved	310.	mg/L	50	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	100	mg/L	5.0	0.50	200.7/6010	01/27/95	KW	1

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(1) Sample Preparation on 01/23/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 01/13/95 by GFB using 7195

02/02/95

LJO/ejngbp(dw)/kaw
LA23IA1
CC: OLIN(TN)
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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000014	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	59	mg/L	20	0.10	200.7/6010	01/30/95	KW	1
Sodium, Dissolved	10000	mg/L	200	0.10	200.7/6010	01/26/95	KW	2

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(1) Sample Preparation on 01/27/95 by WD using 3010
(2) Sample Preparation on 01/23/95 by WD using 3010

02/02/95

LJO/ejngbp(dw)/kaw
LA23IA1
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S000014	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	1
Bromide	<1000.	mg/L	1000	1	300.0	01/15/95	NH	2
Carbonate, as CO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	3
Nitrate as N, Dissolved	24.	mg/L	20	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	0.081	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1300	mg/L	4.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	7.2	mg/L	10	0.10	365.4	01/18/95	BC	4
Solids - Filterable Residue (TDS)	55000	mg/L	50	10	160.1	01/17/95	BC	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Initial sample pH was <4.5. Carbonate could not be analyzed.
(4) Sample Preparation on 01/17/95 by BAC
(5) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000015	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	01/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	01/24/95	KW	2
Barium, Dissolved	0.037	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Calcium, Dissolved	18	mg/L	1.0	0.050	200.7/6010	01/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	01/27/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	01/16/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	01/27/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	01/23/95	KW	2
Magnesium, Dissolved	3.0	mg/L	1.0	0.050	200.7/6010	01/25/95	KW	1
Manganese, Dissolved	1.1	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	3.2	mg/L	1.0	0.50	200.7/6010	01/27/95	KW	1
Silicon, Dissolved	4.3	mg/L	1.0	0.10	200.7/6010	01/30/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/23/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) Sample Preparation on 01/13/95 by GFB using 7195
(4) Sample Preparation on 01/27/95 by WD using 3010

02/02/95

LJO/ejnejn/kaw
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000015	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	74	mg/L	1.0	0.10	200.7/6010	01/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/23/95 by WD using 3010

02/02/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-2
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000015	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Bromide	<2.0	mg/L	1.0	2.0	320.1	01/23/95	NN	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	01/17/95	CM	
Nitrate as N, Dissolved	0.92	mg/L	1.0	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	1.3	mg/L	1.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	01/18/95	BC	1
Solids - Filterable Residue (TDS)	330.	mg/L	1.0	10	160.1	01/16/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/17/95 by BAC
(2) Sample Preparation on 01/13/95 by JF

02/02/95

LJO/ejngbp(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-3
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000016	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2500	mg/L	200	0.10	200.7/6010	01/26/95	KW	1
Arsenic, Dissolved	<0.50	mg/L	100	0.005	206.2/7060	01/25/95	KW	2,3
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	01/25/95	KW	1
Calcium, Dissolved	620.	mg/L	50	0.050	200.7/6010	01/25/95	KW	1
Chromium, Dissolved	1400	mg/L	400	0.015	200.7/6010	01/26/95	KW	1
Chromium, Hexavalent	55	mg/L	25	0.015	6010	01/17/95	KW	4
Chromium, Trivalent	1300	mg/L	1.0	0.015	Calculation	01/31/95	GB	
Iron, Dissolved	3100	mg/L	200	0.025	200.7/6010	01/26/95	KW	1
Lead, Dissolved	<1.0	mg/L	200	0.005	239.2/7421	01/26/95	KW	2,3
Magnesium, Dissolved	1800.	mg/L	50	0.050	200.7/6010	01/25/95	KW	1
Manganese, Dissolved	130.	mg/L	50	0.005	200.7/6010	01/25/95	KW	1
Potassium, Dissolved	18	mg/L	1.0	0.50	200.7/6010	01/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/23/95 by WD using 3010
(2) Sample Preparation on 01/20/95 by WD using 3020
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 01/13/95 by GFB using 7195

02/02/95

LJO/ejngbp(dw)/kaw/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-3
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000016	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	75	mg/L	20	0.10	200.7/6010	01/30/95	KW	1
Sodium, Dissolved	16000	mg/L	200	0.10	200.7/6010	01/26/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/27/95 by WD using 3010
(2) Sample Preparation on 01/23/95 by WD using 3010

02/02/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0062-3
Report Date: 02/02/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S000016	Aqueous	CLIENT	01/13/95	01/13/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	1
Bromide	<1000.	mg/L	1000	1	300.0	01/15/95	NH	2
Carbonate, as CO3	NR	mg/L	1.0	20	APHA 406C	01/18/95	CM	3
Nitrate as N, Dissolved	19.	mg/L	10	0.050	353.2	01/17/95	BC	
Nitrite as N, Dissolved	0.11	mg/L	2.0	0.050	353.2	01/13/95	BC	
Organic Carbon, Dissolved (DOC)	2700	mg/L	8.0	1.0	415.1	01/16/95	BC	
Phosphorus, Dissolved as P	31.	mg/L	10	0.10	365.4	01/18/95	BC	4
Solids - Filterable Residue (TDS)	98000	mg/L	100	10	160.1	01/17/95	BC	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Initial sample pH was <4.5. Carbonate could not be analyzed.
(4) Sample Preparation on 01/17/95 by BAC
(5) Sample Preparation on 01/16/95 by JF

02/02/95

LJO/ejnbac/gbp(dw)

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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

US EPA ARCHIVE DOCUMENT

Field Identification: S000010 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	800	5	42785-001	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	1600	50	42785-006	01/14/95	626A	300.0/1
Sulfate, dissolved (mg/L)	6100	100	42785-006	01/14/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-006	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	1	1	42785-011	01/16/95	281	376.1/1

Field Identification: S000009 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	2.3	0.05	42785-002	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	73	3	42785-007	01/15/95	626A	300.0/1
Sulfate, dissolved (mg/L)	65	1	42785-007	01/13/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-007	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42785-012	01/16/95	281	376.1/1

Field Identification: S000008 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	1.5	0.05	42785-003	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	52	1	42785-008	01/15/95	626A	300.0/1
Sulfate, dissolved (mg/L)	59	1	42785-008	01/13/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-008	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42785-013	01/16/95	281	376.1/1

Field Identification: S00012 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	0.45	0.05	42785-004	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	160	3	42785-009	01/16/95	627A	300.0/1
Sulfate, dissolved (mg/L)	36	2	42785-009	01/15/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-009	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42785-014	01/16/95	281	376.1/1

US EPA ARCHIVE DOCUMENT

Field Identification: S000013 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	450	5	42785-005	01/16/95	533	350.2/1
Chloride, dissolved (mg/L)	1000	50	42785-010	01/15/95	626A	300.0/1
Sulfate, dissolved (mg/L)	3500	100	42785-010	01/15/95	626A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42785-010	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42785-015	01/16/95	281	376.1/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0077-1
Report Date: 02/03/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-68-BR	Aqueous	CLIENT	01/13/95	01/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	0.14	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

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REPORT OF LABORATORY ANALYSIS

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ENVIRONMENTAL LABORATORIES

Lab Number : WL-0077-2
Report Date: 02/03/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64-D	Aqueous	CLIENT	01/16/95	01/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0077-3
Report Date: 02/03/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-27-D	Aqueous	CLIENT	01/17/95	01/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	2.2	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0077-4
Report Date: 02/03/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-61-BR	Aqueous	CLIENT	01/17/95	01/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/31/95 by WD using 3010

02/03/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0077-5
Report Date: 02/03/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-67-D	Aqueous	CLIENT	01/17/95	01/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/01/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 01/31/95 by WD using 3010

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Field Identification: S000014 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	9300	500	42801-001	01/15/95	626A	325.1/1
Sulfate, dissolved (mg/L)	39000	1000	42801-001	01/15/95	626A	375.4/1
Bromide, dissolved (mg/L)	BDL	1000	42801-001	01/15/95	626	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.2	0.2	42801-001	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42801-004	01/16/95	281	376.1/1
Ammonia-N, dissolved (mg/L as N)	3000	50	42801-007	01/17/95	534	350.2/1

Field Identification: S000015 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	130	5	42801-002	01/16/95	627A	325.1/1
Sulfate, dissolved (mg/L)	29	1.0	42801-002	01/15/95	626A	375.4/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.2	42801-002	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42801-005	01/16/95	281	376.1/1
Ammonia-N, dissolved (mg/L as N)	2.5	0.05	42801-008	01/17/95	534	350.2/1

Field Identification: S000016 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	15000	500	42801-003	01/15/95	626A	325.1/1
Sulfate, dissolved (mg/L)	72000	1000	42801-003	01/15/95	626A	375.4/1
Bromide, dissolved (mg/L)	BDL	1000	42801-003	01/15/95	626	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	1.2	0.2	42801-003	01/13/95	183	365.2/1
Sulfide, dissolved (mg/L)	2	1	42801-006	01/16/95	281	376.1/1
Ammonia-N, dissolved (mg/L as N)	5200	50	42801-009	01/17/95	534	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

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Field Identification: GW-68-BR Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L)	4200	100	42830-001	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	30	0.5	42830-006	01/19/95	535	350.2/1

Field Identification: GW-64-D Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L)	760	10	42830-002	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	6.4	0.5	42830-007	01/19/95	535	350.2/1

Field Identification: GW-27-D Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L)	23000	500	42830-003	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	3700	50	42830-008	01/19/95	535	350.2/1

Field Identification: GW-61-BR Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L)	31	1.0	42830-004	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	0.12	0.05	42830-009	01/19/95	535	350.2/1

Field Identification: GW-67-D Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfate, dissolved (mg/L)	45	10	42830-005	01/18/95	629A	375.4/1
Ammonia-N, dissolved (mg/L as N)	0.06	0.05	42830-010	01/19/95	535	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

Field Identification: S0000002 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	2.8		42836-001	01/19/95	108	D3245-85

Field Identification: S0000009 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.5		42836-002	01/19/95	108	D3245-85

Field Identification: S0000008 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.0		42836-003	01/19/95	108	D3245-85

Field Identification: S0000015 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.0		42836-004	01/19/95	108	D3245-85

Field Identification: S0000014 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.8		42836-005	01/19/95	108	D3245-85

Field Identification: S0000011 Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity (cpoise)	3.0		42836-006	01/19/95	108	D3245-85

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-1
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1,3
Calcium, Dissolved	200.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	4
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	5
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/10/95 by WD using 3020
(3) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 0.017 and 0.028.
(4) Sample Preparation on 02/01/95 by GFB using 7195
(5) Sample Preparation on 02/14/95 by KAW using 3010

02/24/95

LJO/ejngbp(dw)
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CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-1
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Magnesium, Dissolved	37.	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1
Manganese, Dissolved	5.6	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	10.	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B6.8	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	310.	mg/L	10	0.10	200.7/6010	02/13/95	KW	1

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(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/14/95 by KAW using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.

02/24/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-1
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	47.	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	20.	mg/L	1.0	15	410.4	02/03/95	CM	
Nitrate as N, Dissolved	4.3	mg/L	10	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	5.8	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	1800.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-2
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.10	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Calcium, Dissolved	320.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	0.017	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	0.42	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Total	0.45	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4
Chromium, Trivalent	0.030	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	0.017	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	39.	mg/L	10	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2
Magnesium, Dissolved	19.	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/10/95 by WD using 3020
(3) Sample Preparation on 02/01/95 by GFB using 7195
(4) Sample Preparation on 02/14/95 by KAW using 3010

02/24/95

LJO/ejngbp(dw)
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CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-2
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	2.9	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	8.7	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B4.0	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	350.	mg/L	10	0.10	200.7/6010	02/13/95	KW	1

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(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/14/95 by KAW using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.

02/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	150.	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	65.	mg/L	1.0	15	410.4	02/03/95	CM	
Nitrate as N, Dissolved	3.1	mg/L	10	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	22	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	2700.	mg/L	2.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-3
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.40	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Calcium, Dissolved	110.	mg/L	10	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	0.13	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	1.8	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Total	1.9	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4
Chromium, Trivalent	0.13	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	0.10	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	4.0	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/10/95	KW	2
Magnesium, Dissolved	4.6	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1

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(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/10/95 by WD using 3020
(3) Sample Preparation on 02/01/95 by GFB using 7195
(4) Sample Preparation on 02/14/95 by KAW using 3010

02/24/95

LJO/ejngbp(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-3
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	1.1	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B6.9	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	43.	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1

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(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/14/95 by KAW using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.

02/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/03/95	CM	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	5.3	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	610.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.44	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/14/95	KW	2
Barium, Dissolved	0.029	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Calcium, Dissolved	7.9	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/13/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/02/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	02/15/95	KW	4
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	3.0	mg/L	1.0	0.025	200.7/6010	02/13/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/13/95	KW	2
Magnesium, Dissolved	1.7	mg/L	1.0	0.050	200.7/6010	02/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/10/95 by WD using 3020
(3) Sample Preparation on 02/01/95 by GFB using 7195
(4) Sample Preparation on 02/14/95 by KAW using 3010

02/24/95

LJO/ejngbp(dw)
LB10ICW1
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	0.43	mg/L	1.0	0.005	200.7/6010	02/13/95	KW	1
Potassium, Dissolved	1.4	mg/L	1.0	0.50	200.7/6010	02/13/95	KW	1
Silicon, Dissolved	B5.2	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	2,3
Sodium, Dissolved	22.	mg/L	1.0	0.10	200.7/6010	02/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/10/95 by WD using 3010
(2) Sample Preparation on 02/14/95 by KAW using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.11 mg/L.

02/24/95

LJO/ejngbp(dw)
LB10ICW1
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0185-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S	Aqueous	T. EBNER	02/01/95	02/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	18.	mg/L	1.0	15	410.4	02/03/95	CM	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	6.0	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	140.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

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ATTN:STEVE MORROW
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Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-1
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.16	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	0.029	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3
Chromium, Trivalent Dissolved	0.029	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	0.51	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	3.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.30	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	1.4	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Sodium, Dissolved	32.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010
(2) Sample Preparation on 02/15/95 by WD using 3020
(3) Sample Preparation on 02/02/95 by GFB using 7195

02/24/95

LJO/ejngbp(dw)
LB15ICW1
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-1
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	43.	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	0.70	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	4.6	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	220.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-2
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.20	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	26.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	0.025	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Iron, Dissolved	0.59	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.30	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Sodium, Dissolved	31.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010
(2) Sample Preparation on 02/15/95 by WD using 3020

02/24/95

LJO/ejngbp(dw)
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-2
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	0.60	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-3
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	0.045	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	1.3	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	2.2	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.45	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	0.89	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	14.	mg/L	5.0	0.10	200.7/6010	02/20/95	KW	1
Sodium, Dissolved	50.	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010
(2) Sample Preparation on 02/15/95 by WD using 3020
(3) Sample Preparation on 02/02/95 by GFB using 7195

02/24/95

LJO/ejngbp(dw)
LB15ICW1
CC: OLIN(TN)
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-3
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S	Aqueous	T. ERNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	65.	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	<2.0	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	4.7	mg/L	10	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	0.058	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	4.4	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	310.	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S MS	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.30	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Arsenic, Dissolved	0.040	mg/L	2.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	2.13	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	30.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	0.243	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Chromium, Hexavalent Dissolved	5.09	mg/L	2.0	0.015	6010	02/03/95	KW	3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	02/23/95	DN	4
Iron, Dissolved	1.63	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	0.022	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	7.77	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.826	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	22.9	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	6.87	mg/L	2.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010
(2) Sample Preparation on 02/15/95 by WD using 3020
(3) Sample Preparation on 02/02/95 by GFB using 7195
(4) This is a calculation and is not applicable to a matrix spike.

02/24/95

LJO/ejnejn
LB15ICW1
CC: OLIN(TN)
ATTN:STEVE MORROW
RICK SACKS-BCM

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S MS	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	37.8	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-4
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S MS	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	168	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	12.5	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	88.0	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	02/17/95	BC	2
Nitrite as N, Dissolved	0.460	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	41.7	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	1.12	mg/L	1.0	0.10	365.4	02/15/95	BC	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	02/06/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) NA=This is a calculation and is not applicable to a matrix spike.
(3) Sample Preparation on 02/14/95 by NEN
(4) Sample Preparation on 02/03/95 by JF
(5) NA=Matrix spike analysis is not applicable for this parameter.

02/24/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-5
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S DUP	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.150	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	02/15/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Calcium, Dissolved	28.4	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Chromium, Dissolved	0.025	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	3
Chromium, Trivalent Dissolved	0.025	mg/L	1.0	0.015	Calculation	02/23/95	DN	
Iron, Dissolved	0.546	mg/L	1.0	0.025	200.7/6010	02/20/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	02/16/95	KW	2
Magnesium, Dissolved	3.49	mg/L	1.0	0.050	200.7/6010	02/20/95	KW	1
Manganese, Dissolved	0.296	mg/L	1.0	0.005	200.7/6010	02/20/95	KW	1
Potassium, Dissolved	1.89	mg/L	1.0	0.50	200.7/6010	02/20/95	KW	1
Silicon, Dissolved	4.23	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1
Sodium, Dissolved	31.6	mg/L	1.0	0.10	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010
(2) Sample Preparation on 02/15/95 by WD using 3020
(3) Sample Preparation on 02/02/95 by GFB using 7195

02/24/95

LJO/ejnejn
LB15ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-5
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S DUP	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	44.5	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Bromide, Dissolved	2.35	mg/L	1.0	2.0	320.1	02/18/95	NN	1
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	02/09/95	CM	
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	02/07/95	LT	
Nitrate as N, Dissolved	0.625	mg/L	1.0	0.050	353.2	02/17/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	02/03/95	BC	
Organic Carbon, Dissolved (DOC)	5.46	mg/L	1.0	1.0	415.1	02/13/95	BC	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	02/15/95	BC	2
Solids-Filt Residue, Dissolved	215	mg/L	1.0	10	160.1	02/06/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by NEN
(2) Sample Preparation on 02/14/95 by NEN
(3) Sample Preparation on 02/03/95 by JF

02/24/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-6
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	1
Chromium, Total	0.024	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	2
Chromium, Trivalent	0.024	mg/L	1.0	0.015	Calculation	02/23/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/02/95 by GFB using 7195
(2) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejnejn

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-7
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	0.033	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-8
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.026	mg/L	1.0	0.015	6010	02/03/95	KW	1
Chromium, Total	0.040	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	02/23/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/02/95 by GFB using 7195
(2) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejnejn

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-9
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S MS	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	4.86	mg/L	2.0	0.015	6010	02/03/95	KW	1
Chromium, Total	0.233	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	2
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	02/23/95	DN	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/02/95 by GFB using 7195
(2) Sample Preparation on 02/15/95 by WD using 3010
(3) This is a calculation and is not applicable to a matrix spike.

02/24/95

LJO/ejnejn

CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0195-10
Report Date: 02/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
GW-77S DUP	Aqueous	T. EBNER	02/02/95	02/02/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	02/03/95	KW	1
Chromium, Total	0.033	mg/L	1.0	0.015	200.7/6010	02/20/95	KW	2
Chromium, Trivalent	0.033	mg/L	1.0	0.015	Calculation	02/23/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/02/95 by FGB using 7195
(2) Sample Preparation on 02/15/95 by WD using 3010

02/24/95

LJO/ejnejn

CC: OLIN(TN)
ATTN:STEVE MORROW
RICK SACKS-BCM

Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0202-1
Report Date: 02/28/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SED-17,11	Solid	CLIENT	02/02/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	31000	mg/kgdrywt	1.0	10	6010	02/15/95	KW	1
Arsenic, Total	54	mg/kgdrywt	1.0	0.50	7060	02/15/95	KW	1
Barium, Total	74	mg/kgdrywt	1.0	0.50	6010	02/15/95	KW	1
Calcium, Total	10000	mg/kgdrywt	1.0	5.0	6010	02/15/95	KW	1
Chromium, Total	2800	mg/kgdrywt	1.0	1.5	6010	02/15/95	KW	1
Iron, Total	120000	mg/kgdrywt	5.0	2.5	6010	02/17/95	KW	1
Lead, Total	66	mg/kgdrywt	1.0	0.50	7421	02/16/95	KW	1
Magnesium, Total	1900	mg/kgdrywt	1.0	5.0	6010	02/15/95	KW	1
Manganese, Total	210	mg/kgdrywt	1.0	0.50	6010	02/15/95	KW	1
Potassium, Total	<950	mg/kgdrywt	1.0	50.	6010	02/20/95	KW	1
Silicon, Total	3000	mg/kgdrywt	1.0	10	6010	02/20/95	KW	1
Sodium, Total	3300	mg/kgdrywt	1.0	10	6010	02/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/13/95 by DG using 3050

02/28/95

LJO/ejnajc/gbp(dw)/kaw
LB13ICS1
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0202-1
Report Date: 02/28/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SED-17,11	Solid	CLIENT	02/02/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Lime Equivalency	<0.025	wt %	1.0	0.025	Special Proc	02/15/95	CM	
Nitrogen-Ammonia as N	2300	mg/kgdrywt	40	8.0	APHA 420/350	02/27/95	BC	1
Phosphorus, Total as P	810	mg/kgdrywt	1.0	25	365.4 (Mod.)	02/16/95	BC	2
Solids-Total Residue (TS)	3.5	wt %	1.0	0.10	CLP/CIP SOW	02/10/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/17/95 by CM
(2) Sample Preparation on 02/15/95 by BAC
(3) Sample Preparation on 02/09/95 by JF

02/28/95

LJO/ejngbp(dw)

CC: OLIN(TN)
ATTN:STEVE MORROW
BCM-RICK SACKS

Respectfully submitted,
PACE, INC.
Laura J. O'Meara
Laura J. O'Meara
Supervisor, Client Services

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Field Identification: GW-50S Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	250	30	42953-001	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	1100	25	42953-001	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42953-001	02/02/95	186	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42953-005	02/02/95	283	376.1/1
Ammonia-N, dissolved (mg/L as N)	110	0.5	42953-009	02/02/95	538	350.2/1

Field Identification: GW-79S Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	330	30	42953-002	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	1900	25	42953-002	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42953-002	02/02/95	186	365.2/1
Sulfide, dissolved (mg/L)	2	1	42953-006	02/02/95	283	376.1/1
Ammonia-N, dissolved (mg/L as N)	220	1	42953-010	02/02/95	538	350.2/1

Field Identification: GW-78S Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	49	5	42953-003	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	470	5.0	42953-003	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42953-003	02/02/95	186	365.2/1
Sulfide, dissolved (mg/L)	1	1	42953-007	02/02/95	283	376.1/1
Ammonia-N, dissolved (mg/L as N)	45	0.5	42953-011	02/02/95	538	350.2/1

Field Identification: GW-42S Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	49	1	42953-004	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	15	1.0	42953-004	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42953-004	02/02/95	186	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42953-008	02/02/95	283	376.1/1
Ammonia-N, dissolved (mg/L as N)	4.3	0.05	42953-012	02/02/95	538	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-1
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.41	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	44.	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	4.1	mg/L	4.0	0.10	350.1	02/08/95	BC	
Sulfate	12.	mg/L	1.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	5.3	pH Units	1.0	0.1	150.1	02/03/95	JF	

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02/17/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-2
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-35S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-35S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	31.	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	53	mg/L	20	0.10	350.1	02/14/95	BC	
Sulfate	500.	mg/L	50	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-3
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-19S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-19S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	3.3	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	0.92	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	1100.	mg/L	100	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-4
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CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42SD	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.39	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-4
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42SD	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	45.	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	3.9	mg/L	4.0	0.10	350.1	02/08/95	BC	
Sulfate	18.	mg/L	1.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	5.2	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-5
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.14	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	28.	mg/L	1.0	2.0	325.2	02/10/95	CM	
Nitrogen-Ammonia as N	0.53	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	190.	mg/L	20	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.0	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-6
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-25	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-6
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-25	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	85.	mg/L	1.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	75	mg/L	40	0.10	350.1	02/14/95	BC	
Sulfate	260.	mg/L	50	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-7
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-24	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-24	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	110.	mg/L	2.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	130	mg/L	40	0.10	350.1	02/14/95	BC	
Sulfate	310.	mg/L	50	1.0	375.4	02/09/95	LT	
pH (Laboratory)	7.5	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-8
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-10S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.7	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-10S	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	3.1	mg/L	1.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	<0.10	mg/L	1.0	0.10	350.1	02/08/95	BC	
Sulfate	13.	mg/L	2.0	1.0	375.4	02/09/95	LT	
pH (Laboratory)	4.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-9
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-26	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-26	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	53.	mg/L	1.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	62	mg/L	20	0.10	350.1	02/14/95	BC	
Sulfate	260.	mg/L	20	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.3	pH Units	1.0	0.1	150.1	02/03/95	JF	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN(TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-10
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	02/10/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	02/10/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 02/09/95 by WD using 3010

02/17/95

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0201-10
Report Date: 02/17/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11	Aqueous	CLIENT	02/03/95	02/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	46.	mg/L	1.0	2.0	325.2	02/15/95	CM	
Nitrogen-Ammonia as N	45	mg/L	20	0.10	350.1	02/14/95	BC	
Sulfate	290.	mg/L	50	1.0	375.4	02/09/95	LT	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	02/03/95	JF	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

02/17/95

LJO/ejnabb(dw)/pph

CC: OLIN(TN)
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Respectfully submitted,
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Field Identification: GW-77S FILTERED Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	50	2	42965-001	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	35	2.0	42965-001	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42965-001	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	2	1	42965-006	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.30	0.05	42965-011	02/08/95	540	350.2/1

Field Identification: GW-77S DUP FILTERED Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	52	2	42965-002	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	35	2.0	42965-002	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42965-002	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	42965-007	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.4	0.1	42965-012	02/08/95	540	350.2/1

Field Identification: GW-77S MS FILTERED Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	60	2	42965-003	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	51	2.0	42965-003	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.46	0.02	42965-003	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	44	1	42965-008	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	2.3	0.1	42965-013	02/08/95	540	350.2/1

Field Identification: GW-77SD FILTERED Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	48	2	42965-004	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	34	2.0	42965-004	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42965-004	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	1	1	42965-009	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	0.35	0.05	42965-014	02/08/95	540	350.2/1

US EPA ARCHIVE DOCUMENT

Field Identification: GW-76S FILTERED Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	28	2	42965-005	02/06/95	630A	300.0/1
Sulfate, dissolved (mg/L)	160	2.0	42965-005	02/06/95	630A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	42965-005	02/03/95	188	365.2/1
Sulfide, dissolved (mg/L)	14	1	42965-010	02/06/95	284	376.1/1
Ammonia-N, dissolved (mg/L as N)	30	0.5	42965-015	02/08/95	540	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

Field Identification: WL0226-1 Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Organic Carbon (ug/g)	210000	100	43026-001	02/14/95	1066A	See Text

Field Identification: WL0226-1 DUP Matrix: SOLID

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Total Organic Carbon (ug/g)	170000	100	43026-002	02/14/95	1066A	See Text

Results expressed on a dry weight basis.

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0925-1
Report Date: 07/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC WF-2	Solid	CLIENT	05/04/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Antimony, Total	<60	mg/kg	1.0	50	6010	06/27/95	KW	1
Arsenic, Total	<60	mg/kg	1.0	50	6010	06/27/95	KW	1
Barium, Total	B4600	mg/kg	50	0.50	6010	06/27/95	KW	1,2
Beryllium, Total	6.1	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Cadmium, Total	<1.2	mg/kg	1.0	1.0	6010	06/27/95	KW	1
Calcium, Total	2700.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Cobalt, Total	<3.6	mg/kg	1.0	3.0	6010	06/27/95	KW	1
Copper, Total	25.	mg/kg	1.0	2.5	6010	06/27/95	KW	1
Lead, Total	<24	mg/kg	1.0	20	6010	06/27/95	KW	1
Magnesium, Total	380.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Manganese, Total	46.	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Nickel, Total	8.8	mg/kg	1.0	4.0	6010	06/27/95	KW	1
Potassium, Total	2800.	mg/kg	1.0	50.	6010	06/27/95	KW	1
Silicon, Total	1200.	mg/kg	2.0	0.10	200.7	06/27/95	KW	1
Silver, Total	<1.8	mg/kg	1.0	1.5	6010	07/06/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/31/95 by VM using 3050
(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of barium in the method blank was 5.3 mg/kg.

07/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0925-1
Report Date: 07/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC WF-2	Solid	CLIENT	05/04/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	8700.	mg/kg	1.0	10	6010	06/27/95	KW	1
Vanadium, Total	11.	mg/kg	1.0	2.5	6010	06/27/95	KW	1
Zinc, Total	3400.	mg/kg	50	2.5	6010	06/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/31/95 by VM using 3050

07/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0925-2
Report Date: 07/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC RP-2	Solid	CLIENT	05/03/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Antimony, Total	<50	mg/kg	1.0	50	6010	06/27/95	KW	1
Arsenic, Total	<50	mg/kg	1.0	50	6010	06/27/95	KW	1
Barium, Total	B32	mg/kg	1.0	0.50	6010	06/27/95	KW	1,2
Beryllium, Total	6.7	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Cadmium, Total	2.8	mg/kg	1.0	1.0	6010	06/27/95	KW	1
Calcium, Total	950.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Cobalt, Total	15.	mg/kg	1.0	3.0	6010	06/27/95	KW	1
Copper, Total	270.	mg/kg	10	2.5	6010	06/27/95	KW	1
Lead, Total	<190	mg/kg	10	20	6010	06/27/95	KW	1,3
Magnesium, Total	1100.	mg/kg	1.0	5.0	6010	06/27/95	KW	1
Manganese, Total	85.	mg/kg	1.0	0.50	6010	06/27/95	KW	1
Nickel, Total	18.	mg/kg	1.0	4.0	6010	06/27/95	KW	1
Potassium, Total	560.	mg/kg	1.0	50.	6010	06/27/95	KW	1,4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/31/95 by VM using 3050

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of barium in the method blank was 4.1 mg/kg.

(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(4) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 560 and 360.

07/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0925-2
Report Date: 07/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC RP-2	Solid	CLIENT	05/03/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	6200.	mg/kg	20	0.10	200.7	06/27/95	KW	1,2
Silver, Total	<1.5	mg/kg	1.0	1.5	6010	07/06/95	KW	1
Sodium, Total	400.	mg/kg	1.0	10	6010	06/27/95	KW	1,3
Vanadium, Total	81.	mg/kg	10	2.5	6010	06/27/95	KW	1
Zinc, Total	110.	mg/kg	1.0	2.5	6010	06/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/31/95 by VM using 3050

(2) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 6200 and 4500.

(3) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 400 and 290.

07/10/95

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Respectfully submitted,
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0817-1
Report Date: 06/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC WF-2	Solid	CLIENT	05/04/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	77000	mg/kg	20	10	6010	06/01/95	KW	1
Chromium, Total	B2500	mg/kg	20	1.5	6010	06/01/95	KW	1,2
Iron, Total	B26000	mg/kg	20	2.5	6010	06/01/95	KW	1,3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/31/95 by VM using 3050

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of chromium in the method blank was 3.6 mg/kg.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 23 mg/kg.

06/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0817-2
Report Date: 06/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC RP-2	Solid	CLIENT	05/03/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	70000	mg/kg	20	10	6010	06/01/95	KW	1,2
Chromium, Total	B35000	mg/kg	100	1.5	6010	06/01/95	KW	1,3,4
Iron, Total	B180000	mg/kg	100	2.5	6010	06/01/95	KW	1,5,6

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 05/31/95 by VM using 3050

(2) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 70000 and 53000.

(3) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 35000 and 26000.

(4) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of chromium in the method blank was 2.8 mg/kg.

(5) Duplicate analyses were performed on this sample for this parameter. The precision of the duplicate results is outside the laboratory's acceptance range. Sample homogeneity may be a factor. The individual results were 180000 and 130000.

(6) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 18 mg/kg.

06/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0817-2
Report Date: 06/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FLOC RP-2	Solid	CLIENT	05/03/95	05/25/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	210.	mg/kg	1.0	40	9251	05/31/95	BC	1
Sulfate	740.	mg/kg	4.0	20	9038	05/31/95	LT	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/30/95 by JF using ASTM D3987

06/06/95

LJO/ejnejn/pph

CC: OLIN (TN)
ATTN: STEVE MORROW

Respectfully submitted,
PACE, INC.

Laura J. O'Meara

Laura J. O'Meara
Supervisor, Client Services

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Field Identification: GW-56S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Re..
Chloride, dissolved (mg/L)	36	1	43911-001	05/09/95	712	325.1/1
Sulfate, dissolved (mg/L)	160	5	43911-001	05/08/95	643A	375.4/1
Bromide, dissolved (mg/L)	1	1	43911-001	05/08/95	643A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	12	2	43911-001	05/05/95	194	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	43911-005	05/08/95	296	376.1/1
Ammonia-N, dissolved (mg/L as N)	6.9	0.05	43911-009	05/05/95	554	350.2/1

Field Identification: GW-8 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	120	1	43911-002	05/09/95	712	325.1/1
Sulfate, dissolved (mg/L)	710	10	43911-002	05/08/95	643A	375.4/1
Bromide, dissolved (mg/L)	1	1	43911-002	05/08/95	643A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	43911-002	05/05/95	194	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	43911-006	05/08/95	296	376.1/1
Ammonia-N, dissolved (mg/L as N)	140	0.5	43911-010	05/05/95	554	350.2/1

Field Identification: SW-18 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	24	1	43911-003	05/09/95	712	325.1/1
Sulfate, dissolved (mg/L)	140	5	43911-003	05/08/95	643A	375.4/1
Bromide, dissolved (mg/L)	BDL	1	43911-003	05/08/95	643A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	43911-003	05/05/95	194	365.2/1
Sulfide, dissolved (mg/L)	BDL	1	43911-007	05/08/95	296	376.1/1
Ammonia-N, dissolved (mg/L as N)	1.4	0.05	43911-011	05/05/95	554	350.2/1

US EPA ARCHIVE DOCUMENT

Field Identification: SW-18 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride (mg/L)	24	1	43911-004	05/09/95	712	325.1/1
Sulfate (mg/L)	130	5	43911-004	05/08/95	643A	375.4/1
Bromide (mg/L)	BDL	1	43911-004	05/08/95	643A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	43911-004	05/05/95	194	365.2/1
Sulfide (mg/L)	BDL	1	43911-008	05/08/95	296	376.1/1
Ammonia-N (mg/L as N)	2.0	0.05	43911-012	05/05/95	554	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

CUSTOMER #:
05232

HUFFMAN LABORATORIES, INC.

Quality Analytical Services Since 1936
4630 Indiana Street • Golden, CO 80403
Phone: (303) 278-4455 • FAX: (303) 278-7012

DATE 5/24/95
LAB# 171495
P.O. C692-0301
RECD 05/10/95

ANALYSIS REPORT

CHRIS SELLSTONE
PTI ENVIRONMENTAL SERVICE
2995 BASELINE RD, STE 202
BOULDER CO 80303

"Total inorganic carbon as C"
→ "Dissolved CO_2 as C"
per C. Sellstone results of 2/95

SEQUENCE/ SAMPLE NUMBER	ANALYSIS CARBONATE C-MG/L
01/GW8 79628/79629- -	27.
02/GW42S 79623- - - -	40. 37.
03/GW50S 79611- - - -	39.
04/GW56S 79559- - - -	11.
05/GW76S 79617- - - -	30.
'GW77S 79621- - - -	25.
07/GW78S 79605- - - -	21.
08/GW79S 79603- - - -	67.
09/SW-11 79615- - - -	10.
10/SW-12 79625- - - -	6.
11/SW-14 79619- - - -	13.
12/SW-15 79609- - - -	14.
13/SW-16 79601- - - -	6.
14/SW-17 79606- - - -	19. 19.
15/SW-18 79630- - - -	4.

CO_2 HCO_3 ||
Total carbonate as carbon

6/13- per C. Sellstone -
enter as
"Total carbonate as C" ← "I" code
I0068 ?
"Carbonate, Total as C"

Enter data as filtered

SAMPLE 02 - 79624, SAMPLE 03 - 79612, SAMPLE 04 - 79627, SAMPLE 05 - 79618, SAMPLE 06 - 79622, SAMPLE 07 - 79608, SAMPLE 08 - 79604, SAMPLE 09 - 79616, SAMPLE 10 - 79626, SAMPLE 11 - 79620, SAMPLE 12 - 79610, SAMPLE 13 - 79602, SAMPLE 14 - 79607, AND SAMPLE 15 - 79631

1 DATA ATTACHED.

CUSTOMER #:
05232

HUFFMAN
LABORATORIES, INC.
Quality Analytical Services Since 1936
4630 Indiana Street • Golden, CO 80403
Phone: (303) 278-4455 • FAX: (303) 278-7012

DATE 2/3/95
LAB# 108095
P.O. C6920201
RECD 01/19/95

ANALYSIS REPORT

Done on 5/11

Enter as "Filtered"

CHRIS SELLSTONE
PTI ENVIRONMENTAL SERVICE
2995 BASELINE RD, STE 202
BOULDER CO 80303

Dissolved CO_2 as C

SEQUENCE/ SAMPLE NUMBER	ANALYSIS CARBONATE C-MG/L	
01/S000011 79209- -	171.	-GW-62-BR
02/S000014 79318- -	164.	-GW-45-D
03/S000015 79327- - -	21.	-GW-45-S
04/S000016 79309- -	124.	-GW-36
05/S000017 79345- - -	8.	-GW-64-S (Replicate)
06/S000018 79357- - -	7.	-GW-64-S
07/S000018MS 79384- -	9.	-GW-64-S (Spike)
08/S000019 79366- - -	9.	-GW-64-S (Dup)
09/S000020 79375- - -	33.	-GW-64-D
10/S000021 79231- -	104.	← GW42D

RAW DATA ATTACHED.

RECEIVED
FEB 0 2 1995

CUSTOMER #
05233

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LABORATORIES, INC.
Quality Analytical Services Since 1936
4630 Indiana Street • Golden, CO 80403
Phone: (303) 278-4455 • FAX: (303) 278-7012

DATE 1/20/95
LAB# 105895
P.O. 01C692-1
RECD 01/17/95

done on 5/11

ANALYSIS REPORT

Enter as "Filtered"

LINDA BLISS
PTI ENVIRONMENTAL SERVICE
2995 BASELINE RD. STE.202
BOULDER CO 80303

SEQUENCE/ SAMPLE NUMBER	ANALYSIS CARBONATE C-MG/L
01/S000008 79228- - -	51. - GW-62-S
S000009 79229- - -	28. - GW-62-D
03/S000010 79230- -	180. - GW-50-D
04/S000012 79218- - -	18. - GW-58-S
05/S000013 79227- -	119. - GW-58-D

Total inorganic carbon as C

RAW DATA ATTACHED.

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-6
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	58.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	25	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	2.4	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	22	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	4.1	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.18	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	140.	mg/L	1.0	2.	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
BCM ENGINEERS
ONE PLYMOUTH MEETING

US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-6
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-1
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Calcium, Dissolved	350	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/12/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	28	mg/L	5.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	18	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	2.0	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Potassium, Dissolved	6.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
LE11ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-1
Report Date: 05/24/95
PO No. : ▸

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	3.5	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	310	mg/L	5.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw) /kew
LE13ICW2
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-1
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	160.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	70.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	280	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	3.1	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	250	mg/L	1.0	3	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	22.	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	3900.	mg/L	2.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	1900.	mg/L	1.0	20.	300.0	05/05/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
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Westbrook, ME 04098
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-1
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-2
Report Date: 05/24/95
PO No. : ►

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.28	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Calcium, Dissolved	75	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Chromium, Dissolved	0.097	mg/L	1.0	0.015	200.7/6010	05/12/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	0.097	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	3.4	mg/L	1.0	0.025	200.7/6010	05/12/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.4	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.68	mg/L	1.0	0.005	200.7/6010	05/12/95	KW	1
Potassium, Dissolved	1.9	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-2
Report Date: 05/24/95
PO No. : ▸

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	5.1	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	26	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-2
Report Date: 05/24/95
PO No. :

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	21.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	24	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	52	mg/L	1.0	0.5	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	4.4	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.16	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	550.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	370.	mg/L	1.0	4.	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
BCM ENGINEERS
ONE PLYMOUTH MEETING

US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-2
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnemg/jbb(dw)

CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
BCM ENGINEERS
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-3
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.40	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	0.036	mg/L	2.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	2.03	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	81.4	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.312	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	1.75	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4
Iron, Dissolved	5.67	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	0.020	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	8.21	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	1.33	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	23.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnjbb(dw)/kew/pph
LE11ICW1
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-3
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	8.26	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	35.6	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-3
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	137.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	10	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	80.5	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	77	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	05/10/95	BC	1
Nitrite as N, Dissolved	0.499	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	110	mg/L	1.0	0.5	350.2	05/04/95	NH	2
Organic Carbon, Dissolved (DOC)	45.9	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	0.51	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	1.05	mg/L	1.0	0.10	365.4	05/17/95	BC	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) NA=This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 05/04/95 by NH using 350.2
(3) Sample Preparation on 05/16/95 by BAC

05/24/95

LJO/ejnemg/jbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-3
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	05/08/95	JF	1,2
Sulfate, Dissolved	400.	mg/L	1.0	4.	300.0	05/04/95	NH	
Sulfide, Dissolved	41.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by JF
(2) NA=Matrix spike analysis is not applicable for this parameter.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-4
Report Date: 05/24/95
PO No. :

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.224	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	69.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.074	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	1.77	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Dissolved	6.24	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.50	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.795	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
(5) This is a calculation and is not applicable to a matrix spike.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-4
Report Date: 05/24/95
PO No. : ▸

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Potassium, Dissolved	1.70	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1
Silicon, Dissolved	6.06	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	2
Sodium, Dissolved	28.1	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/13/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-4
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	24	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	44	mg/L	1.0	0.5	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	4.06	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.376	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	465	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	370.	mg/L	1.0	4.	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-4
Report Date: 05/24/95
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CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-5
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	150	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.032	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	34	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	4.1	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	11	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-5
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PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	7.4	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	310	mg/L	5.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-5
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	61.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	2	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	23.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	280	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	5.7	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	140	mg/L	1.0	3	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	7.6	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.32	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	1600.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	1200.	mg/L	1.0	20.	300.0	05/08/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-5
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-6
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	20	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	1.7	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.26	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	0.83	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-6
Report Date: 05/24/95
PO No. : ▸

CLIENT: DON CAMERON
OLIN CHEMICALS
51 RAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	14	mg/L	5.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	36	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-7
Report Date: 05/24/95
PO No. :

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	27	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.038	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	0.023	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.29	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.7	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.19	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.9	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-7
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	4.5	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	26	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-7
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	45.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	47	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.71	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.32	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	0.22	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	35.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-7
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T.EBNER/ B.MOGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-8
Report Date: 05/24/95
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	28	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.032	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	0.025	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.056	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	4.2	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.20	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-8
Report Date: 05/24/95
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CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	4.3	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	27	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-8
Report Date: 05/24/95
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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	45.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	47	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.71	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.28	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	4.9	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	36.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-8
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-9
Report Date: 05/24/95
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T.ERNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.47	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.029	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	8.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	4.2	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.1	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.38	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.3	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-9
Report Date: 05/24/95
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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	5.8	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	18	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	19.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	45	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	3.9	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.1	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids-Filt Residue, Dissolved	140.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	8.6	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-9
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-10
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	250	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.048	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	5.4	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.25	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	2.6	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-10
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	3.7	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	66	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-10
Report Date: 05/24/95
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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	22.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	20.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	6.7	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	58	mg/L	1.0	1	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	8.8	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	1200.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	870.	mg/L	1.0	10.	300.0	05/05/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-10
Report Date: 05/24/95
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CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	3.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-11
Report Date: 05/24/95
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CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	32	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.091	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	3.9	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.089	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-11
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	3.0	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	82	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-11
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	67.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	100	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	2.2	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	25	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	6.6	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	450.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	190.	mg/L	1.0	2.	300.0	05/05/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-11
Report Date: 05/24/95
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-14
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	50	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.081	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	4.2	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.24	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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Lab Number : WL-0668-14
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	3.8	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	120	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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LE13ICW2
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	49.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	15.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	120	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	2.8	mg/L	10	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	28	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Organic Carbon, Dissolved (DOC)	6.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	550.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	270.	mg/L	1.0	3.	300.0	05/05/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-14
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-15
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	15	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.52	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.7	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.098	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	2.0	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-15
Report Date: 05/24/95
PO No. : ▶

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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	0.60	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	60	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-15
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	33.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	82	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.53	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	7.0	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.2	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	55.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-15
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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-16
Report Date: 05/24/95
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	20	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.46	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.059	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	0.17	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	70	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-16
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	25.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.77	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	1.6	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	270.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	45.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-16
Report Date: 05/24/95
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	13	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.80	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.1	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.062	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	0.67	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	37	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	37.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	0.09	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	14.	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	190.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	11.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejnemg/jbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-17
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-18
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.008	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	17	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	0.42	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	2.5	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	0.048	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
LE11ICW1
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-18
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	0.29	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	61	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-18
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	43.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	21.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.72	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	1.7	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	7.3	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	280.	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	46.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-18
Report Date: 05/24/95
PO No. : ▶

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-19
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level). represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-19
Report Date: 05/24/95
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CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (FILT)	Aqueous	T.EBNER/ B.MOGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	1
Sodium, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-19
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride, Dissolved	<1	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.095	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N, Dissolved	<0.05	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/12/95	BC	2
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	05/08/95	JF	3
Sulfate, Dissolved	2.	mg/L	1.0	1	300.0	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/11/95 by NEN
(3) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejneng/jbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-19
Report Date: 05/24/95
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-20
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	0.020	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/10/95 by VM using 3010

05/24/95

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LE03WA
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-21
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.60	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	0.89	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2
Chromium, Trivalent	0.29	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/10/95 by VM using 3010

05/24/95

LJO/ejmjbb(dw)/kew
LE03WA
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-22
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (UNFILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	2.46	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	0.452	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2,3
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4

* PQL (Practical Quantitation Level). represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010
(3) A duplicate was analyzed for total chromium rather than the client requested matrix spike.
(4) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnejn
LE03WB
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-23
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (UNFILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	2.45	mg/L	1.0	0.015	6010	05/05/95	KW	1,2
Chromium, Total	1.60	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	3,4
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
(3) Sample Preparation on 05/12/95 by VM using 3010
(4) A matrix spike was analyzed for total chromium rather than the client requested duplicate.
(5) Thsi is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnejn
LE03WA
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RICK SACKS-SMITH/
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-24
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-25
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-26
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.033	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	0.039	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-27
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77SD (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.050	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	0.037	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-28
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/94	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/03/95 by GFB using 7195
(2) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-29
Report Date: 05/24/95
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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.26	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Total	0.020	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	200	mg/L	5.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.13	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Total	5.2	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.25	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	2.2	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	4.1	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-29
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	70	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-29
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	22.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Bromide	1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand	26.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	6.6	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	56	mg/L	1.0	1	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	1300.	mg/L	1.0	10	160.1	05/10/95	JF	3
Sulfate	870.	mg/L	1.0	20.	300.0	05/05/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnjbb(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-29
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	9.1	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-30
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.83	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Total	0.016	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	36	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.34	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Total	3.6	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.097	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.8	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	3.0	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
LE12ICW1
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-30
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	88	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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Lab Number : WL-0668-30
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CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	67.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	24.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	110	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	2.1	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	25	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.12	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	440.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	200.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

LJO/ejnjbb(dw)

CC: STEVE MORROW-OLIN,TN
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-30
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejmjbb(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-31
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	2.86	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	0.033	mg/L	5.0	0.005	206.2/7060	05/11/95	KW	2
Barium, Total	1.95	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	40.5	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	2.40	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	0.211	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4
Iron, Total	1.35	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	0.015	mg/L	2.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	8.18	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.584	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	22.7	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnjbb(dw)/kew
LE12ICW1
CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	4.63	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Total	104	mg/L	2.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	166.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	10	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	23.8	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	85.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	150	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	Not Appl.	mg/L	1.0	0.050	353.2	05/10/95	BC	1
Nitrite as N	0.523	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	34	mg/L	1.0	0.5	350.2	05/05/95	NH	2
Phosphate, Ortho as P	0.49	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.974	mg/L	1.0	0.10	365.4	05/17/95	BC	3
Solids - Filterable Residue (TDS)	Not Appl.	mg/L	1.0	10	160.1	05/09/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) NA=This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 05/05/95 by NH using 350.2
(3) Sample Preparation on 05/16/95 by BAC
(4) Sample Preparation on 05/08/95 by JF
(5) NA=Matrix spike analysis is not applicable for this parameter.

05/24/95

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate	210.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide	32.	mg/L	1.0	1	376.1	05/04/95	NH	
Total Organic Carbon (TOC)	47.4	mg/L	1.0	1.0	415.1	05/06/95	BC	

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05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-32
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.907	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	39.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	2.53	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Total	0.381	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	3.86	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.108	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
(5) This is a calculation and is not applicable to a matrix spike.

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Potassium, Total	1.68	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	3.32	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Total	96.1	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

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(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	68.3	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20.0	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	19.0	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	110	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	2.05	mg/L	2.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	24	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.114	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	460.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	200.	mg/L	1.0	1	300.0	05/08/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.20	mg/L	1.0	1.0	415.1	05/06/95	BC	

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05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.6	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	56	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.54	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	4.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.26	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	4.5	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	120	mg/L	2.0	0.10	200.7/6010	05/15/95	KW	1

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(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	49.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	19.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	120	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	2.7	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	28	mg/L	1.0	0.5	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	570.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	280.	mg/L	1.0	3.	300.0	05/08/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/05/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-15 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-34
Report Date: 05/24/95
PO No. : ▶

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.11	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	15	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	1.5	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.098	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.3	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.70	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
LE12ICW1
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-34
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	57	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-34
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	32.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	20.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	82	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	0.55	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	6.8	mg/L	1.0	0.05	350.2	05/05/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.12	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	250.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	55.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-11 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	6.9	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.011	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	18	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.61	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.049	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.3	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.31	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

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(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	64	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

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(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	44.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	22.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	88	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	0.82	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	1.6	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	270.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	46.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	1.	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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Lab Number : WL-0668-35
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PO No. : [illegible]

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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	7.0	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are adjusted by [illegible]

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-36
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.14	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.013	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	21	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	0.74	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/11/95	KW	4
Magnesium, Total	3.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.059	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.5	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) Sample Preparation on 05/11/95 by VM using 3020

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-36
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CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	0.33	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Total	73	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

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(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	43.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	24.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	87	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	0.78	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	1.7	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	280.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	45.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14D (UNFILT)	Aqueous	T.WEBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	6.8	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
SW-12 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.14	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Total	12	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/21/95	DN	
Iron, Total	3.9	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Total	0.061	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Total	1.5	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Total	0.79	mg/L	1.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195

05/24/95

LJO/ejnjbb(dw)/kew
LE12ICW1
CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
BCM ENGINEERS
ONE PLYMOUTH MEETING

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-37
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	34	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnjbb(dw)/kew
LE12ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-37
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide	<1	mg/L	1.0	1	300.0	05/04/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand	50.	mg/L	1.0	15	410.4	05/04/95	LT	
Chloride	69	mg/L	1.0	1	325.1	05/09/95	NH	
Nitrate as N	<0.050	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Nitrogen-Ammonia as N	0.09	mg/L	1.0	0.05	350.2	05/04/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/04/95	NH	
Phosphorus, Total as P	0.40	mg/L	1.0	0.10	365.4	05/17/95	BC	2
Solids - Filterable Residue (TDS)	190.	mg/L	1.0	10	160.1	05/09/95	JF	3
Sulfate	11.	mg/L	1.0	1	300.0	05/04/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	05/04/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by NH using 350.2
(2) Sample Preparation on 05/16/95 by BAC
(3) Sample Preparation on 05/08/95 by JF

05/24/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-37
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Organic Carbon (TOC)	15.	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-12
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.85	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	0.037	mg/L	2.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	1.67	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	32.3	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	0.178	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	2.36	mg/L	1.0	0.015	6010	05/05/95	KW	3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	4
Iron, Dissolved	0.975	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	0.018	mg/L	1.0	0.005	239.2/7421	05/08/95	KW	2
Magnesium, Dissolved	8.26	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Dissolved	0.506	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	22.0	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) This is a calculation and is not applicable to a matrix spike.

05/24/95

LJO/ejnjbb(dw)/kew/pph
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-12
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	5.06	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1
Sodium, Dissolved	82.2	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/13/95 by VM using 3010
(2) Sample Preparation on 05/11/95 by VM using 3010

05/24/95

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LE13ICW2
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-12
Report Date: 05/24/95
PO No. : ▶

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/MS)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	165.	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Carbonate, Dissolved as CaCO3	23.7	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	81.0	mg/L	1.0	15	410.4	05/04/95	LT	
Nitrite as N, Dissolved	0.523	mg/L	1.0	0.050	353.2	05/04/95	CM	
Organic Carbon, Dissolved (DOC)	46.5	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphorus, Dissolved as P	0.789	mg/L	1.0	0.10	365.4	05/12/95	BC	1
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	05/08/95	JF	2,3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by NEN
(2) Sample Preparation on 05/05/95 by JF
(3) NA=Matrix spike analysis is not applicable for this parameter.

05/24/95

LJO/ejmjbb(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-13
Report Date: 05/24/95
PO No. : [illegible]

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/DUP)	Aqueous	T.[illegible]ENER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	05/12/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/07/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	42.7	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	2.40	mg/L	1.0	0.015	6010	05/05/95	KW	3,4
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	05/21/95	DN	5
Iron, Dissolved	0.138	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	6
Magnesium, Dissolved	3.50	mg/L	1.0	0.050	200.7/6010	05/18/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/05/95 by VM using 3020
(3) Sample Preparation on 05/03/95 by GFB using 7195
(4) A matrix spike was analyzed for hexavalent chromium rather than the client requested duplicate.
(5) This is a calculation and is not applicable to a matrix spike.
(6) Sample Preparation on 05/09/95 by VM using 3020

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-13
Report Date: 05/24/95
PO No. : ►

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	0.113	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	2.04	mg/L	1.0	0.50	200.7/6010	05/13/95	KW	1
Silicon, Dissolved	3.52	mg/L	1.0	0.10	200.7/6010	05/16/95	KW	2
Sodium, Dissolved	96.3	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by VM using 3010
(2) Sample Preparation on 05/13/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0668-13
Report Date: 05/24/95
PO No. : ▸

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT/DUP)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/03/95	05/03/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	69.3	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	05/05/95	CM	
Chemical Oxygen Demand, Dissolved	<15.0	mg/L	1.0	15	410.4	05/04/95	LT	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/04/95	CM	
Organic Carbon, Dissolved (DOC)	6.33	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphorus, Dissolved as P	0.108	mg/L	1.0	0.10	365.4	05/12/95	BC	1
Solids-Filt Residue, Dissolved	446	mg/L	1.0	10	160.1	05/08/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/11/95 by NEN
(2) Sample Preparation on 05/05/95 by JF

05/24/95

LJO/ejneng/jbb(dw)

CC: STEVE MORROW-OLIN,TN
RICK SACKS-SMITH/
BCM ENGINEERS
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Respectfully submitted,
PACE, INC.
J Butler for
Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-1
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-56S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	4.5	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Dissolved	0.024	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	34	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	
Iron, Dissolved	0.043	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Dissolved	0.64	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	1.6	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Dissolved	7.3	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/04/95 by GFB using 7195

05/24/95

LJO/ejnclm(dw)/kew/pph
LE12ICW1
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-1
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-56S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	31	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-1
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-56S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride, Dissolved	36.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N, Dissolved	3.9	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	1
Nitrogen-Ammonia as N, Dissolved	6.9	mg/L	1.0	0.05	350.2	05/05/95	NH	2
Organic Carbon, Dissolved (DOC)	2.6	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	12.	mg/L	1.0	2.	365.2	05/05/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	3
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	05/10/95	JF	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.
(2) Sample Preparation on 05/05/95 by NH using 350.2
(3) Sample Preparation on 05/16/95 by BAC
(4) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-1
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-56S (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved	160.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1.0	376.1	05/08/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-2
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-8 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.39	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	43	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	
Iron, Dissolved	0.88	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Dissolved	11	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Dissolved	4.6	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	4.7	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Dissolved	5.9	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/04/95 by GFB using 7195

05/24/95

LJO/ejnclm(dw)/kew/pph
LE12ICW1
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BCM, PA

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-2
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-8 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	120	mg/L	5.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kew/pph
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-2
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-8 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	26.	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride, Dissolved	120.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N, Dissolved	4.8	mg/L	20	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	1
Nitrogen-Ammonia as N, Dissolved	140	mg/L	1.0	0.5	350.2	05/05/95	NH	2
Organic Carbon, Dissolved (DOC)	3.5	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	0.03	mg/L	1.0	0.02	365.2	05/05/95	NH	
Phosphorus, Dissolved as P	0.27	mg/L	1.0	0.10	365.4	05/17/95	BC	3
Solids-Filt Residue, Dissolved	800.	mg/L	1.0	10	160.1	05/10/95	JF	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.
(2) Sample Preparation on 05/05/95 by NH using 350.2
(3) Sample Preparation on 05/16/95 by BAC
(4) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-2
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-8 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved	710.	mg/L	1.0	10.	300.0	05/08/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1.0	376.1	05/08/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

05/24/95

LJO/ejnclm(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-3
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.3	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Dissolved	0.032	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Calcium, Dissolved	39	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	05/15/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	
Iron, Dissolved	0.69	mg/L	1.0	0.025	200.7/6010	05/15/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Dissolved	2.4	mg/L	1.0	0.050	200.7/6010	05/15/95	KW	1
Manganese, Dissolved	0.50	mg/L	1.0	0.005	200.7/6010	05/15/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	05/15/95	KW	1
Silicon, Dissolved	6.5	mg/L	2.0	0.10	200.7/6010	05/17/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/04/95 by GFB using 7195

05/24/95

LJO/ejnclm(dw)/kew/pph
LR12ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-3
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	15	mg/L	1.0	0.10	200.7/6010	05/15/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kew/pph
LE12ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-3
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	05/08/95	CM	1
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	2
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride, Dissolved	24.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N, Dissolved	0.26	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	3
Nitrogen-Ammonia as N, Dissolved	1.4	mg/L	1.0	0.05	350.2	05/05/95	NH	4
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	05/06/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	05/05/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.
(4) Sample Preparation on 05/05/95 by NH using 350.2
(5) Sample Preparation on 05/16/95 by BAC

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-3
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (FILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Filt Residue, Dissolved	240.	mg/L	1.0	10	160.1	05/10/95	JF	1
Sulfate, Dissolved	140.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1.0	376.1	05/08/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-4
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-56S (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by GFB using 7195
(2) Sample Preparation on 05/09/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)
LE04WA
CC: STEVE MORROW - OLIN, TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-5
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-8 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/04/95 by GFB using 7195
(2) Sample Preparation on 05/09/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)
LE04WA
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-6
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	2.4	mg/L	1.0	0.10	200.7/6010	05/11/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	05/10/95	KW	2
Barium, Total	0.032	mg/L	1.0	0.005	200.7/6010	05/11/95	KW	1
Calcium, Total	43	mg/L	1.0	0.050	200.7/6010	05/11/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	05/08/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	05/11/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	05/24/95	DN	
Iron, Total	0.75	mg/L	1.0	0.025	200.7/6010	05/11/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	05/10/95	KW	2
Magnesium, Total	2.5	mg/L	1.0	0.050	200.7/6010	05/12/95	KW	1
Manganese, Total	0.56	mg/L	1.0	0.005	200.7/6010	05/11/95	KW	1
Potassium, Total	1.1	mg/L	1.0	0.50	200.7/6010	05/12/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/09/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3020
(3) Sample Preparation on 05/04/95 by GFB using 7195

05/24/95

LJO/ejnclm(dw)/kaw
LE09WA
CC: STEVE MORROW - OLIN, TN
RICK SACKS - SMITH/
BCM, PA

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-6
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	7.3	mg/L	2.0	0.10	200.7/6010	05/12/95	KW	1
Sodium, Total	16	mg/L	1.0	0.10	200.7/6010	05/11/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/12/95 by VM using 3010
(2) Sample Preparation on 05/09/95 by VM using 3010

05/24/95

LJO/ejnclm(dw)/kaw
LE12ICW1
CC: STEVE MORROW - OLIN, TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-6
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	NR	mg/L	1.0	20	APHA 406C	05/08/95	CM	1
Bromide	<1	mg/L	1.0	1.	300.0	05/08/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	05/08/95	CM	2
Chemical Oxygen Demand	<15	mg/L	1.0	15	410.4	05/12/95	LT	
Chloride	24.	mg/L	1.0	1.	325.1	05/09/95	NH	
Nitrate as N	0.25	mg/L	1.0	0.050	353.2	05/10/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	05/10/95	CM	3
Nitrogen-Ammonia as N	2.0	mg/L	1.0	0.05	350.2	05/05/95	NH	4
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	05/05/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	05/17/95	BC	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Due to laboratory error, the analysis was performed 4 day(s) after expiration of the analytical hold-time for this parameter.
(4) Sample Preparation on 05/05/95 by NH using 350.2
(5) Sample Preparation on 05/16/95 by BAC

05/24/95

LJO/ejnclm(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0682-6
Report Date: 05/24/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-18 (UNFILT)	Aqueous	T.EBNER/ B.MCGILLICUDDY	05/04/95	05/04/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids - Filterable Residue (TDS)	240.	mg/L	1.0	10	160.1	05/10/95	JF	1
Sulfate	130.	mg/L	1.0	5.	300.0	05/08/95	NH	
Sulfide	<1	mg/L	1.0	1.0	376.1	05/08/95	NH	
Total Organic Carbon (TOC)	5.1	mg/L	1.0	1.0	415.1	05/06/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 05/09/95 by JF

05/24/95

LJO/ejnclm(dw)

CC: STEVE MORROW - OLIN, TN
RICK SACKS - SMITH/
BCM, PA

Respectfully submitted,
PACE, INC.

J Burton for

Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-1
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BUTTERS ROW #1	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw)
LF05ICW2
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-1
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BUTTERS ROW #1	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	75.	mg/L	4.0	2.0	325.2	06/08/95	BC	
Nitrogen-Ammonia as N	4.0	mg/L	10	0.10	350.1	06/07/95	BC	
Sulfate	95.	mg/L	20	1.0	375.4	06/05/95	LT	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnvm(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-2
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TOWN PARK	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation by 100 using 3010

06/22/95

LJO/ejnejn/kew/vm(dw)
LF05ICW2
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-2
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TOWN PARK	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	130.	mg/L	20	2.0	325.2	06/08/95	BC	
Nitrogen-Ammonia as N	0.20	mg/L	1.0	0.10	350.1	06/07/95	BC	
Sulfate	18.	mg/L	2.0	1.0	375.4	06/05/95	LT	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-3
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
CHESTNUT ST	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

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REPORT OF LABORATORY ANALYSIS

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Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
CHESTNUT ST	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	80	mg/L	1.0	2.0	325.2	06/06/95	BC	
Nitrogen-Ammonia as N	1.4	mg/L	10	0.10	350.1	06/07/95	BC	
Sulfate	28.	mg/L	4.0	1.0	375.4	06/05/95	LT	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-4
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
CHESTNUT ST 1A	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw)
LF05ICW2
CC: OLIN(TN)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-4
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
CHESTNUT ST 1A	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	53	mg/L	1.0	2.0	325.2	06/06/95	BC	
Nitrogen-Ammonia as N	0.28	mg/L	1.0	0.10	350.1	06/07/95	BC	
Sulfate	16.	mg/L	4.0	1.0	375.4	06/05/95	LT	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

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ATTN: STEVE MORROW

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-5
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BUTTERS ROW #2	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/16/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/05/95 by VM using 3010

06/22/95

LJO/ejnejn/kew/vm(dw)
LF05ICW2
CC: OLIN(TN)
ATTN: STEVE MORROW

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PACE INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-0848-5
Report Date: 06/22/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
BUTTERS ROW #2	Aqueous	PAUL FULLERTON	05/31/95	06/01/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	63	mg/L	1.0	2.0	325.2	06/06/95	BC	
Nitrogen-Ammonia as N	0.53	mg/L	1.0	0.10	350.1	06/07/95	BC	
Sulfate	42.	mg/L	4.0	1.0	375.4	06/05/95	LT	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/22/95

LJO/ejnpph/vm(dw)

CC: OLIN(TN)
ATTN: STEVE MORROW

Respectfully submitted,
PACE, INC.

Laura J. O'Meara
Supervisor, Client Services

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-1
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.4	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/24/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Calcium, Dissolved	25.	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Chromium, Dissolved	0.021	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	0.021	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.88	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.2	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Manganese, Dissolved	0.23	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Potassium, Dissolved	1.7	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	4.8	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)
LG23ICW1
CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-1
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	34.	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG23ICW1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-1
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	50.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	32.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	45.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.36	mg/L	1.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	0.37	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.04	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	32.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-2
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	3.16	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	0.037	mg/L	2.0	0.005	206.2/7060	07/27/95	KW	2
Barium, Dissolved	1.81	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	26.2	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	0.214	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	2.17	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4
Iron, Dissolved	1.65	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	07/28/95	KW	2,5
Magnesium, Dissolved	6.62	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	0.680	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	21.6	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/26/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(5) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) This is a calculation and is not applicable to a matrix spike.

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-2
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	6.92	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	36.7	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-2
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	183	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	12.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	91.0	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	96.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	07/31/95	BC	1
Nitrite as N, Dissolved	0.477	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.4	mg/L	1.0	0.05	350.2	07/25/95	NH	2
Organic Carbon, Dissolved (DOC)	49.4	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.52	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	0.920	mg/L	1.0	0.10	365.4	07/28/95	BC	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	07/21/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) NA=This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 07/25/95 by NH using 350.2
(3) Sample Preparation on 07/27/95 by CLM
(4) Sample Preparation on 07/20/95 by JF
(5) NA=Matrix spike analysis is not applicable for this parameter.

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-2
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved	45.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	37.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-3
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.49	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/24/95	KW	2
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Calcium, Dissolved	26.4	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Chromium, Dissolved	0.019	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	0.019	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.853	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.24	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Manganese, Dissolved	0.234	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Potassium, Dissolved	2.00	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	4.93	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-3
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	35.7	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-3
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (FILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	49.5	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	28.0	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	44.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.354	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	0.43	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	10.1	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.04	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	203	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	32.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-4
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00002 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.2	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	07/24/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.74	mg/L	1.0	0.025	200.7/6010	07/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	07/24/95	KW	1
Manganese, Dissolved	0.24	mg/L	1.0	0.005	200.7/6010	07/24/95	KW	1
Potassium, Dissolved	2.3	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	4.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-4
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00002 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	33.	mg/L	1.0	0.10	200.7/6010	07/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

00001-4

08/10/95

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OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00002 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	47.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	33.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	44.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.59	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	0.44	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.03	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	33.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-5
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00003 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.36	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.044	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	20.	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	2.4	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	1.2	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	1.8	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	6.5	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG23ICW1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-5
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00003 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	44.	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG23ICW1
CC: BCM
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ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-5
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00003 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	23.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	34.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	98.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.078	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	4.4	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	9.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	250.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	6.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-6
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00004 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.065	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	14.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.98	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	1.6	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	0.34	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	0.90	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	9.1	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG23ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-6
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00004 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	56.	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
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ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-6
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00004 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	35.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	91.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	14	mg/L	1.0	0.5	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	2.6	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	230.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	38.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/26/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
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ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-7
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00005 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.65	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	88.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	0.088	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	0.35	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	4
Iron, Dissolved	9.2	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.6	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	0.71	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Please refer to cover letter\ case narrative for additional information concerning this sample result.

08/10/95

LJO/ejngbp(dw)
LG23ICW1
CC: BCM
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-7
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00005 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	7.4	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	34.	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG25W1
CC: BCM
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ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-7
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00005 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	17.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	36.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.056	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	39	mg/L	1.0	0.1	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.05	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	590.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	370.	mg/L	1.0	5.	300.0	07/24/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/26/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-8
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00006 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.32	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	380	mg/L	5.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	6.7	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	239.2/7421	07/26/95	KW	2,4
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	1.2	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	6.1	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

08/10/95

LJO/ejngbp(dw)/kew
LG23ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-8
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00006 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	4.2	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	320	mg/L	5.0	0.10	200.7/6010	07/25/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) /kew
LG25W1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-8
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00006 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	230.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	63.	mg/L	1.0	15	410.4	07/21/95	LT	
Chloride, Dissolved	240.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	8.5	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.063	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	310	mg/L	1.0	1	350.2	07/26/95	NH	1
Organic Carbon, Dissolved (DOC)	20.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	3000.	mg/L	2.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	2000.	mg/L	1.0	20.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/26/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
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ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-9
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00007 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.044	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	61.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	1.5	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	6.2	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	6.3	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)/kew
LG23ICW1
CC: BCM
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ATTN:STEVE MORROW

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-9
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00007 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	170	mg/L	5.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) /kew
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CC: BCM
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-9
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00007 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	43.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	140.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	5.4	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	86	mg/L	1.0	3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	2.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	900.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	560.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp (dw) /pph

CC: BCM
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ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-10
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00008 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.51	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.007	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	64.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	2.8	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.010	mg/L	2.0	0.005	239.2/7421	07/26/95	KW	2,4
Magnesium, Dissolved	15.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	5.9	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	6.2	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

08/10/95

LJO/ejnejn/kew
LG23ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-10
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00008 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Dissolved	6.7	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	210	mg/L	5.0	0.10	200.7/6010	07/25/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejnejn/kew
LG25W1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-10
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00008 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	46.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	180.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.42	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	180	mg/L	1.0	3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	3.3	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	900.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
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REPORT OF LABORATORY ANALYSIS

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

Lab Number : WL-1098-11
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00009 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	5.8	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	0.039	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	52.	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	1.3	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	0.97	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	8.8	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)
LG23ICW1
CC: BCM
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-11
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00009 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	50.	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-11
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00009 (FILT)	Aqueous	T. ERNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	58.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	4.4	mg/L	10	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	11	mg/L	1.0	0.3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	2.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.05	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	430.	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	180.	mg/L	1.0	4.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-12
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00010 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/25/95	KW	2
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	0.053	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	07/25/95	KW	1
Silicon, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010
(2) Sample Preparation on 07/23/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) Sample Preparation on 07/25/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)/kew
LG23ICW1
CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-12
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00010 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw) /kew
LG23ICW1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-12
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00010 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	<15	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	<1	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	0.11	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	07/21/95	JF	3
Sulfate, Dissolved	<1	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/20/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-13
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.021	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	0.021	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-14
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (UNFILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	2.47	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.253	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	2
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/25/95 by VM using 3010
(3) This is a calculation and is not applicable to a matrix spike.

08/10/95

LJO/ejnejn
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

140000

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-15
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00001 (UNFILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.020	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	0.020	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR1
CC: BCM
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OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-16
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00002 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.054	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	0.054	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)
LG19WCR1
CC: BCM
ATTN:RICK SACKS
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ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-17
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00003 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-18
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00004 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-19
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00005 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	1.1	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.37	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010
(3) Please refer to cover letter\ case narrative for additional information concerning this sample result.

08/10/95

LJO/ejnejn
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

000096

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-20
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
S00006 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/23/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

L40000

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-21
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00007 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)
LG19WCR2
CC: BCM
ATTN:RICK SACKS
OLIN(TN)
ATTN:STEVE MORROW

000048

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-22
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00008 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejngbp (dw)
LG19WCR2
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

000049

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-23
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00009 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/19/95 by KAW using 7195
(2) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejngbp(dw)
LG19WCR2
CC: BCM
ATTN:RICK SACKS
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-25
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00011 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.22	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.023	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	28	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	1.2	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.26	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.4	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	0.92	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	160	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp(dw)/kew

CC: BCM
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OLIN(TN)
ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-25
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00011 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	82.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	24.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	190.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.46	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.3	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	6.9	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	470.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	52.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-26
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00012 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.043	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	130	mg/L	2.0	0.050	200.7/6010	07/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.48	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	8.5	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.38	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	3.0	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	6.6	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	130	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp(dw)/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-26
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00012 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	260.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	1.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	34.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	150.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	0.68	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	0.056	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	150	mg/L	1.0	3	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	12.	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	1100.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	650.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	2.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-27
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00013 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.024	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	280	mg/L	5.0	0.050	200.7/6010	07/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.14	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	5.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.14	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.9	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	1.5	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	90	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-27
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00013 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	37.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	82.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	2.3	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	72	mg/L	1.0	1	350.2	07/27/95	NH	1
Organic Carbon, Dissolved (DOC)	9.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	1400.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	990.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide, Dissolved	9.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-28
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00014 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.019	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	37	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.35	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.2	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.086	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	1.7	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	150	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp(dw)/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-28
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00014 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	99.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	19.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	180.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	1.8	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.060	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	470.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	54.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-29
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	40	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.36	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.094	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.4	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	1.7	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	160	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew
LG24ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-29
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	98.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	21.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	2.1	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N, Dissolved	0.063	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	4.7	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	460.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-30
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.21	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	0.039	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	2.16	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	35.5	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	0.205	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	2.27	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4
Iron, Dissolved	1.34	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	0.026	mg/L	2.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Dissolved	7.08	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.596	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	23.6	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	4.34	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(4) This is a calculation and is not applicable to a matrix spike.

08/10/95

LJO/ejnejn/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-30
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	151	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-30
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	183.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	10.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	44.2	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	82.5	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	220.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.050	353.2	07/25/95	BC	1
Nitrite as N, Dissolved	0.491	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	2.1	mg/L	1.0	0.05	350.2	07/25/95	NH	2
Organic Carbon, Dissolved (DOC)	43.5	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	0.51	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	0.714	mg/L	1.0	0.10	365.4	07/28/95	BC	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	07/24/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) NA=This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 07/25/95 by NH using 350.2
(3) Sample Preparation on 07/27/95 by CLM
(4) Sample Preparation on 07/21/95 by JF
(5) NA=Matrix spike analysis is not applicable for this parameter.

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-30
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfate, Dissolved	61.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	37.	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngbp (dw) /pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-31
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.100	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Dissolved	0.020	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Dissolved	39.0	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Dissolved	0.365	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	239.2/7421	07/26/95	KW	2
Magnesium, Dissolved	3.17	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Dissolved	0.090	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Dissolved	2.15	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Dissolved	1.63	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Dissolved	142	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

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(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejnejn/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-31
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (FILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	96.6	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide, Dissolved	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand, Dissolved	15.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride, Dissolved	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N, Dissolved	1.68	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N, Dissolved	0.064	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N, Dissolved	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Organic Carbon, Dissolved (DOC)	4.76	mg/L	1.0	1.0	415.1	07/25/95	BC	
Phosphate Ortho as P, Dissolved	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids-Filt Residue, Dissolved	484	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate, Dissolved	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide, Dissolved	<1	mg/L	1.0	1	376.1	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-32
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
S00011 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.028	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	33	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	1.1	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	3.4	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.29	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	2.3	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	0.89	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	150	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-32
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00011 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	80.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	27.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	190.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	0.22	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.4	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/28/95	BC	2
Solids - Filterable Residue (TDS)	470.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	51.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	1.	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	6.9	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-33
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00012 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.056	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	140	mg/L	2.0	0.050	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.65	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	8.7	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.48	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	3.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	6.7	mg/L	2.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew
LG24ICW1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-33
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00012 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	260.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	35.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	160.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	0.63	mg/L	1.0	0.050	353.2	07/31/95	BC	
Nitrite as N	0.053	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	150.	mg/L	1.0	3.	350.2	07/27/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	1100.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	660.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide	2.	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	12.	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp (dw)

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-34
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00013 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.021	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	250	mg/L	5.0	0.050	200.7/6010	07/26/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/25/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.14	mg/L	1.0	0.025	200.7/6010	07/25/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	5.0	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Manganese, Total	0.12	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	2.6	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	1.4	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	77	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew
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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-34
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00013 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	36.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	82.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	2.2	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	<0.050	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	77.	mg/L	1.0	3.	350.2	07/27/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	1400.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	950.	mg/L	1.0	10.	300.0	07/24/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	10.	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/27/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-35
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00014 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.021	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	34	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.29	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	2.8	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.078	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	1.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp (dw) /kew
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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-35
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00014 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	100.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	18.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	3.0	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	0.059	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	510.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	54.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	

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(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)

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US EPA ARCHIVE DOCUMENT

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-36
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.022	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	36	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.31	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/27/95	KW	2
Magnesium, Total	2.9	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.083	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	2.2	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1
Silicon, Total	1.6	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	140	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

LJO/ejngbp(dw)/kew
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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-36
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	98.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	20.	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	1.7	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	0.059	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.1	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.10	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	480.	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.0	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp(dw)

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-37
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	2.03	mg/L	1.0	0.10	200.7/6010	07/25/95	KW	1
Arsenic, Total	0.042	mg/L	2.0	0.005	206.2/7060	07/27/95	KW	2
Barium, Total	2.04	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Calcium, Total	32.8	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	1
Chromium, Hexavalent	2.64	mg/L	1.0	0.015	6010	07/20/95	KW	3
Chromium, Total	0.179	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	1
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	08/08/95	DN	4
Iron, Total	1.22	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	1
Lead, Total	<0.025	mg/L	5.0	0.005	239.2/7421	07/28/95	KW	2,5
Magnesium, Total	6.52	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	1
Manganese, Total	0.553	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	1
Potassium, Total	22.5	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/19/95 by KAW using 7195
(5) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Thsi is a calculation and is not applicable to a matrix spike.

08/10/95

LJO/ejnejn/kew
LG24ICW1
CC: BCM
ATTN:RICK SACKS
OLIN (TN)
ATTN:STEVE MORROW

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-37
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	4.01	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Sodium, Total	134	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-37
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/MS)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	181.	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	12.	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	46.5	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	81.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	220.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	Not Appl.	mg/L	1.0	0.050	353.2	07/25/95	BC	1
Nitrite as N	0.523	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	2.0	mg/L	1.0	0.05	350.2	07/25/95	NH	2
Phosphate, Ortho as P	0.48	mg/L	1.0	0.02	365.2	07/20/95	NH	
Phosphorus, Total as P	0.635	mg/L	1.0	0.10	365.4	07/31/95	BC	3
Solids - Filterable Residue (TDS)	Not Appl.	mg/L	1.0	10	160.1	07/24/95	JF	4,5
Sulfate	65.	mg/L	1.0	1	300.0	07/21/95	NH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) NA=This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 07/25/95 by NH using 350.2
(3) Sample Preparation on 07/27/95 by CLM
(4) Sample Preparation on 07/21/95 by JF
(5) NA=Matrix spike analysis is not applicable for this parameter.

08/10/95

LJO/ejngbp(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-37
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/MS)	Aqueous	T. EGNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sulfide	36.	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	43.2	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/10/95

LJO/ejngtp (dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-38
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.100	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	206.2/7060	07/26/95	KW	2
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	3
Calcium, Total	32.9	mg/L	1.0	0.050	200.7/6010	07/25/95	KW	3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	07/20/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	07/26/95	KW	3
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	08/08/95	DN	
Iron, Total	0.407	mg/L	1.0	0.025	200.7/6010	07/26/95	KW	3
Lead, Total	<0.005	mg/L	1.0	0.005	239.2/7421	07/28/95	KW	2
Magnesium, Total	2.85	mg/L	1.0	0.050	200.7/6010	07/26/95	KW	3
Manganese, Total	0.075	mg/L	1.0	0.005	200.7/6010	07/25/95	KW	3
Potassium, Total	2.32	mg/L	1.0	0.50	200.7/6010	07/26/95	KW	3
Silicon, Total	1.52	mg/L	1.0	0.10	200.7/6010	07/28/95	KW	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/28/95 by KEW using 3010
(2) Sample Preparation on 07/24/95 by VM using 3020
(3) Sample Preparation on 07/24/95 by VM using 3010
(4) Sample Preparation on 07/19/95 by KAW using 7195

08/10/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-38
Report Date: 08/10/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Total	137	mg/L	2.0	0.10	200.7/6010	07/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/24/95 by VM using 3010

08/10/95

LJO/ejnejn/kew
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1098-38
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
S00015 (UNFILT/DUP)	Aqueous	T. EBNER	07/19/95	07/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate as HCO3	96.7	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Bromide	<1	mg/L	1.0	1.	300.0	07/21/95	NH	
Carbonate, as CO3	<20.0	mg/L	1.0	20	APHA 406C	07/21/95	CM	
Chemical Oxygen Demand	16.0	mg/L	1.0	15	410.4	07/24/95	LT	
Chloride	170.	mg/L	1.0	1.	325.1	07/20/95	NH	
Nitrate as N	1.98	mg/L	2.0	0.050	353.2	07/25/95	BC	
Nitrite as N	0.064	mg/L	1.0	0.050	353.2	07/21/95	LT	
Nitrogen-Ammonia as N	1.0	mg/L	1.0	0.05	350.2	07/25/95	NH	1
Phosphate, Ortho as P	<0.02	mg/L	1.0	0.050	365.2	07/20/95	NH	
Phosphorus, Total as P	<0.100	mg/L	1.0	0.10	365.4	07/31/95	BC	2
Solids - Filterable Residue (TDS)	463	mg/L	1.0	10	160.1	07/24/95	JF	3
Sulfate	53.	mg/L	1.0	1	300.0	07/21/95	NH	
Sulfide	<1	mg/L	1.0	1	376.1	07/21/95	NH	
Total Organic Carbon (TOC)	5.02	mg/L	1.0	1.0	415.1	07/25/95	BC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/95 by NH using 350.2
(2) Sample Preparation on 07/27/95 by CLM
(3) Sample Preparation on 07/21/95 by JF

08/10/95

LJO/ejngbp (dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1389-3
Report Date: 10/11/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	3600	mg/kgdrywt	1.0	10	6010	09/25/95	KW	1
Antimony, Total	14	mg/kgdrywt	1.0	0.50	6010	10/01/95	KW	1
Arsenic, Total	7.3	mg/kgdrywt	1.0	0.50	6010	10/01/95	KW	1
Barium, Total	74	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1
Beryllium, Total	<0.63	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1
Cadmium, Total	<1.3	mg/kgdrywt	1.0	1.0	6010	09/25/95	KW	1
Calcium, Total	1900	mg/kgdrywt	1.0	5.0	6010	09/25/95	KW	1
Chromium, Total	7800	mg/kgdrywt	20	1.5	6010	10/06/95	KW	1
Cobalt, Total	8.4	mg/kgdrywt	1.0	3.0	6010	09/25/95	KW	1
Copper, Total	65	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	1
Iron, Total	17000	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	1
Lead, Total	B36	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1,2
Magnesium, Total	570	mg/kgdrywt	1.0	5.0	6010	09/25/95	KW	1
Manganese, Total	63	mg/kgdrywt	1.0	0.50	6010	09/25/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 09/21/95 by VM using 3050

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of lead in the method blank was 0.76 mg/kgdrywt.

10/11/95

LJO/ejnejn/kew
LI21ICS1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

Lab Number : WL-1389-3
Report Date: 10/11/95
PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Mercury, Total	0.54	µg/gdrywt	1.0	0.10	7471	09/28/95	JF	1
Nickel, Total	7.5	mg/kgdrywt	1.0	4.0	6010	09/26/95	KW	2
Potassium, Total	230	mg/kgdrywt	1.0	50.	6010	09/26/95	KW	2
Selenium, Total	<0.61	mg/kgdrywt	1.0	0.50	7740	09/25/95	KW	2
Silver, Total	<1.9	mg/kgdrywt	1.0	1.5	6010	09/25/95	KW	2
Sodium, Total	140	mg/kgdrywt	1.0	10	6010	09/26/95	KW	2
Thallium, Total	3.0	mg/kgdrywt	1.0	1.0	6010	10/01/95	KW	2
Vanadium, Total	39	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	2
Zinc, Total	13	mg/kgdrywt	1.0	2.5	6010	09/25/95	KW	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/27/95 by JAF using 7471
(2) Sample Preparation on 09/21/95 by VM using 3050

10/11/95

LJO/ejnejn/kew
LI27HGS1

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OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	55.	wt %	1.0	0.10	CLP/CIP SOW	09/15/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/14/95 by JF

10/11/95

LJO/ejngbp (dw) /pph

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Pesticides/PCBs by USEPA 8080								1,2,3
alpha-BHC	<230.	µg/kgdrywt	137	1.7	EPA 8080	09/27/95	LB	
gamma-BHC (Lindane)	<230.	µg/kgdrywt	137	1.7	EPA 8080	09/27/95	LB	
Heptachlor	<230.	µg/kgdrywt	137	1.7	EPA 8080	09/27/95	LB	
Aldrin	260.	µg/kgdrywt	137	1.7	EPA 8080	09/27/95	LB	
beta-BHC	<230.	µg/kgdrywt	137	1.7	EPA 8080	09/27/95	LB	
delta-BHC	<230.	µg/kgdrywt	1.0	1.7	EPA 8080	09/27/95	LB	
Heptachlor epoxide	<230.	µg/kgdrywt	1.0	1.7	EPA 8080	09/27/95	LB	
Endosulfan I	<230.	µg/kgdrywt	1.0	1.7	EPA 8080	09/27/95	LB	
gamma-Chlordane	<230.	µg/kgdrywt	1.0	1.7	EPA 8080	09/27/95	LB	
alpha-Chlordane	<230.	µg/kgdrywt	1.0	1.7	EPA 8080	09/27/95	LB	
4,4'-DDE	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Dieldrin	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Endrin	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/15/95 by NEN using EPA 3550
(2) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.
(3) Sample dilution required due to matrix interference, sample viscosity or other matrix-related problem; therefore , standard laboratory Practical Quantitation Level (PQL) could not be achieved.

10/11/95

LJO/jcbajc/djn/gbp(dw)/kp/lab

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REPORT OF LABORATORY ANALYSIS

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4,4'-DDD	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Endosulfan II	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
4,4'-DDT	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Endrin aldehyde	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Endosulfan sulfate	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Methoxychlor	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
Endrin ketone	<450.	µg/kgdrywt	1.0	3.3	EPA 8080	09/27/95	LB	
Toxaphene	<4500.	µg/kgdrywt	1.0	33	EPA 8080	09/27/95	LB	
PCB-1016	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
PCB-1221	<4500.	µg/kgdrywt	1.0	33	EPA 8080	09/27/95	LB	
PCB-1232	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
PCB-1242	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
PCB-1248	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
PCB-1254	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	

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10/11/95

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
PCB-1260	<2300.	µg/kgdrywt	1.0	17	EPA 8080	09/27/95	LB	
2,4,5,6-Tetrachloro-meta-xylene (%	DL	%	1.0		EPA 8080	09/27/95	LB	
Decachlorobiphenyl (% Recovery)	DL	%	1.0		EPA 8080	09/27/95	LB	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/11/95

LJO/jcbajc/djn/gbp(dw)/kp/lab

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1389-3
Report Date: 10/11/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270								1,2,3,4
Phenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Chloroethyl)ether	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Chlorophenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,3-Dichlorobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,4-Dichlorobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,2-Dichlorobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Methylphenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Chloroisopropyl) ether	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Methylphenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
n-Nitroso-dipropylamine	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachloroethane	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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(1) Sample Preparation on 09/15/95 by NEN using EPA 3550
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(4) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

10/11/95

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PO No. : SE-CH-827-VAR-C

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nitrobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Isophorone	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Nitrophenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dimethylphenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Chloroethoxy)methane	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dichlorophenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
1,2,4-Trichlorobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Naphthalene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chloroaniline	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorobutadiene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chloro-3-methylphenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Methylnaphthalene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorocyclopentadiene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Trichlorophenol	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4,5-Trichlorophenol	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
2-Chloronaphthalene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Nitroaniline	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Dimethylphthalate	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Acenaphthylene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,6-Dinitrotoluene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
3-Nitroaniline	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Acenaphthene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dinitrophenol	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
4-Nitrophenol	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Dibenzofuran	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2,4-Dinitrotoluene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diethylphthalate	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Chlorophenyl phenyl ether	J2300	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Fluorene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Nitroaniline	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
4,6-Dinitro-2-methylphenol	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
n-Nitrosodiphenylamine	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
4-Bromophenyl phenyl ether	J3400	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Hexachlorobenzene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Pentachlorophenol	<15000.	µg/kgdrywt	18.0	820	EPA 8270	09/19/95	AC	
Phenanthrene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Anthracene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Carbazole	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Di-n-butylphthalate	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Fluoranthene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Pyrene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Butyl benzylphthalate	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
3,3'-Dichlorobenzidine	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(a)anthracene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Chrysene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
bis(2-Ethylhexyl)phthalate	B850000	µg/kgdrywt	360.	330	EPA 8270	09/19/95	AC	
Di-n-octylphthalate	J1200	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(b)fluoranthene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(k)fluoranthene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Benzo(a)pyrene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Indeno(1,2,3-cd)pyrene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
Dibenzo(a,h)anthracene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(g,h,i)perylene	<5900.	µg/kgdrywt	18.0	330	EPA 8270	09/19/95	AC	
2-Fluorophenol(Surr.)	89.	%	18.0		EPA 8270	09/19/95	AC	
Phenol-d5(Surr.)	87.	%	18.0		EPA 8270	09/19/95	AC	
Nitrobenzene-d5(Surr.)	73.	%	18.0		EPA 8270	09/19/95	AC	
2-Fluorobiphenyl(Surr.)	92.	%	18.0		EPA 8270	09/19/95	AC	
2,4,6-Tribromophenol(Surr.)	78.	%	18.0		EPA 8270	09/19/95	AC	
Terphenyl-d14(Surr.)	85.	%	18.0		EPA 8270	09/19/95	AC	

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POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	<91.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
Bromomethane	<91.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
Vinyl chloride	<91.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
Chloroethane	<91.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
Methylene chloride	J22	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
Acetone	J55	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	LG	
Carbon disulfide	<91.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
1,1-Dichloroethene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,1-Dichloroethane	J14	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Total 1,2-Dichloroethene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Chloroform	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,2-Dichloroethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
2-Butanone	<140.	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	LG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

10/11/95

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POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Carbon tetrachloride	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Vinyl acetate	<140.	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	LG	
Bromodichloromethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,2-Dichloropropane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
cis-1,3-Dichloropropene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Trichloroethene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Dibromochloromethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,1,2-Trichloroethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Benzene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
trans-1,3-Dichloropropene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Bromoform	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
2,4,4-Trimethyl-2-pentene	1800.	µg/kgdrywt	9.1	10	EPA 8240	09/15/95	LG	
2,4,4-Trimethyl-1-pentene	12000.	µg/kgdrywt	230.	10	EPA 8240	09/15/95	LG	
4-Methyl-2-pentanone	<140.	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	LG	

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POND	Solid	D. CAMERON	09/13/95	09/14/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<140.	µg/kgdrywt	9.1	15	EPA 8240	09/15/95	LG	
Tetrachloroethene	J32	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,1,2,2-Tetrachloroethane	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Toluene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Chlorobenzene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Ethylbenzene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Styrene	<46.	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
Total Xylenes	J33	µg/kgdrywt	9.1	5	EPA 8240	09/15/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	93.	%	9.1		EPA 8240	09/15/95	LG	
Toluene-d8 (% Recovery)	108.	%	9.1		EPA 8240	09/15/95	LG	
p-Bromofluorobenzene (% Recovery)	83.	%	9.1		EPA 8240	09/15/95	LG	

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Field Identification: GW-64S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	78	1	45683-001	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	13	1	45683-001	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-001	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.04	0.02	45683-001	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.37	0.05	45683-008	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-015	10/17/95	311	376.1/1

Field Identification: GW-64D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	230	1	45683-002	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	710	10	45683-002	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	2	1	45683-002	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-002	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	15	0.05	45683-009	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	3	1	45683-016	10/17/95	311	376.1/1

Field Identification: GW-62S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	50	1	45683-003	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	57	1	45683-003	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-003	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-003	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	2.2	0.05	45683-010	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-017	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-022			D3245-85

US EPA ARCHIVE DOCUMENT

Field Identification: GW-62D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	83	1	45683-004	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	100	1	45683-004	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-004	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-004	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	3.0	0.05	45683-011	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-018	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-023			D3245-85

Field Identification: GW-62BR (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	1700	10	45683-005	10/23/95	768	325.1/1
Sulfate, dissolved (mg/L)	4400	100	45683-005	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-005	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-005	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	100	0.5	45683-012	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-019	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-024			D3245-85

Field Identification: GW-58S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	110	1	45683-006	10/18/95	764	325.1/1
Sulfate, dissolved (mg/L)	35	1	45683-006	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45683-006	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-006	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.86	0.05	45683-013	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-020	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-025			D3245-85

US EPA ARCHIVE DOCUMENT

Field Identification: GW-58D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	970	10	45683-007	10/23/95	768	325.1/1
Sulfate, dissolved (mg/L)	3600	100	45683-007	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	8	1	45683-007	10/17/95	667A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45683-007	10/17/95	202	365.2/1
Ammonia-N, dissolved (mg/L as N)	480	5	45683-014	10/18/95	584	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45683-021	10/17/95	311	376.1/1
Viscosity, dissolved (cpoise)	3.0		45683-026			D3245-85

Field Identification: GW-64S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.35	0.05	45683-027	10/18/95	584	350.2/1

Field Identification: GW-64D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	16	0.05	45683-028	10/18/95	584	350.2/1

Field Identification: GW-62S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	2.3	0.05	45683-029	10/18/95	584	350.2/1

Field Identification: GW-62D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	2.7	0.05	45683-030	10/18/95	584	350.2/1

US EPA ARCHIVE DOCUMENT

Field Identification: GW-62BR (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	96	0.5	45683-031	10/18/95	584	350.2/1

Field Identification: GW-58S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.82	0.05	45683-032	10/18/95	584	350.2/1

Field Identification: GW-58D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	570	5	45683-033	10/18/95	584	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

US EPA ARCHIVE DOCUMENT

PACE INC. NE-NH LAB
QUALITY CONTROL
Sulfate
Method: EPA-600 300.0

QC Batch: 667A
Matrix: WATER

METHOD BLANK:

Result mg/L
< 1.00

LABORATORY CONTROL SAMPLES:

	True Value mg/L	Observed Value mg/L	Accuracy Recovery %
LCS1	50.0	47.690	95.4

FIELD SAMPLE:

Precision

Lab No.	Replicate 1 mg/L	Replicate 2 mg/L	Average mg/L	Relative Percent Difference %
45683-1	13.33	13.82	13.58	3.6

Accuracy

Lab No.	Replicate 1 mg/L	Spike Added mg/L	Spike Found mg/L	Recovery %
45683-1	13.33	10	25.04	117.1

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-1
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-10S (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	8.1	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	2.9	mg/L	10	0.10	350.1	11/09/95	CM	
Sulfate	19.	mg/L	1.0	1.0	375.4	11/01/95	CM	
pH (Laboratory)	4.7	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp(dw)/pph

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-2
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	55.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	49.	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	460.	mg/L	100	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
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11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-3
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (UNFILT/MS)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	51.6	mg/L	1.0	2.0	325.2	11/07/95	CM	
Nitrogen-Ammonia as N	56.0	mg/L	20	0.10	350.1	11/09/95	CM	
Sulfate	950	mg/L	100	1.0	375.4	11/02/95	MB	
pH (Laboratory)	Not Appl.	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Matrix spike analysis is not applicable for this parameter.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-4
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (UNFILT/DUP)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	53.6	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	53.8	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	422	mg/L	100	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.66	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-5
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-24 (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	53.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	89.	mg/L	40	0.10	350.1	10/27/95	CM	
Sulfate	170.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.9	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-6
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-25 (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	110.	mg/L	4.0	2.0	325.2	10/27/95	CM	
Nitrogen-Ammonia as N	99.	mg/L	40	0.10	350.1	10/27/95	CM	
Sulfate	200.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-7
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-26 (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	11.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	30.	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	80.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.3	pH Units	1.0	0.1	150.1	10/17/95	JF	1

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11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-8
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-35S (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	48.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	67.	mg/L	20	0.10	350.1	10/27/95	CM	
Sulfate	610.	mg/L	50	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.5	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-9
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39 (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	40.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	0.13	mg/L	1.0	0.10	350.1	11/03/95	CM	
Sulfate	91.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.2	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp(dw)/pph

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-10
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39D (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	40.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	<1.0	mg/L	10	0.10	350.1	11/09/95	CM	1
Sulfate	84.	mg/L	10	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.1	pH Units	1.0	0.1	150.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
ATTN:STEVE MORROW
BCM-RICK SACKS

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-11
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	76.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	0.40	mg/L	1.0	0.10	350.1	11/03/95	CM	
Sulfate	<10	mg/L	10	1.0	375.4	11/02/95	MB	1
pH (Laboratory)	5.3	pH Units	1.0	0.1	150.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-12
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	79.	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	100.	mg/L	40	0.10	350.1	10/27/95	CM	
Sulfate	480.	mg/L	50	1.0	375.4	11/02/95	MB	
pH (Laboratory)	6.0	pH Units	1.0	0.1	150.1	10/17/95	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp(dw)/pph

CC: OLIN(TN)
ATTN:STEVE MORROW
BCM-RICK SACKS

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-13
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-55S (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	640.	mg/L	10	2.0	325.2	10/27/95	CM	
Nitrogen-Ammonia as N	220	mg/L	100	0.10	350.1	11/09/95	CM	
Sulfate	3000.	mg/L	200	1.0	375.4	11/02/95	MB	
pH (Laboratory)	5.6	pH Units	1.0	0.1	150.1	10/17/95	JF	1

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(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

LJO/ejngbp (dw) /pph

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (UNFILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloride	<2.0	mg/L	1.0	2.0	325.2	10/25/95	CM	
Nitrogen-Ammonia as N	<0.10	mg/L	1.0	0.10	350.1	11/09/95	CM	
Sulfate	<1.0	mg/L	1.0	1.0	375.4	11/02/95	MB	
pH (Laboratory)	4.7	pH Units	1.0	0.1	150.1	10/17/95	JF	1

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(1) The laboratory was requested to perform this analysis after the expiration of the analytical hold-time.

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-10S (FILT)	Aqueous	T. ERNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.8	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-17
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (FILT/MS)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.03	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	0.200	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-11 (FILT/DUP)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-19
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-24 (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-20
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-25 (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-21
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-26 (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-22
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-35S (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.12	mg/L	1.0	0.10	200.7/6010	10/20/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/20/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-23
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39 (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

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(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-24
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-39D (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

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(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-25
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.39	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

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(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-26
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-27
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-55S (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	7.8	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

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LJO/ejnejn

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1613-28
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSE BLANK (FILT)	Aqueous	T. EBNER	10/13/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/26/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/20/95 by VM using 3010

11/16/95

LJO/ejngbp(dw)
LJ20ICW2
CC: OLIN(TN)
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-1
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.28	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	14.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	1.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	0.34	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Dissolved	2.2	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	5.3	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	47	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)/kew
LJ18ICW1
CC: OLIN-TN STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-1
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	44.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	0.25	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	15.	mg/L	1.0	1.0	415.1	10/31/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	220.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-2
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	0.014	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.093	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	110	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	70	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	31.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	2.2	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	11	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	8.8	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	210	mg/L	5.0	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-2
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	90.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.11	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	7.4	mg/L	1.0	1.0	415.1	10/31/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-3
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	0.028	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.025	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	37.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	20	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	5.7	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	4.8	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	10	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	6.9	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	31	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-3
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	93.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.11	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	6.6	mg/L	1.0	1.0	415.1	10/31/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-4
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	38.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	0.11	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	1.6	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Dissolved	2.2	mg/L	1.0	0.50	200.7/6010	10/20/95	KW	1
Silicon, Dissolved	4.6	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	46	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-4
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	64.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	0.39	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	2.3	mg/L	1.0	1.0	415.1	10/31/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2
Solids-Filt Residue, Dissolved	370.	mg/L	1.0	10	160.1	10/19/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/18/95 by JF

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-5
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62BR (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	440	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	6.2	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	320	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Dissolved	42	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	34	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	11	mg/L	5.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	1900	mg/L	50	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-5
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62BR (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	430.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.051	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	26.	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	8000.	mg/L	5.0	10	160.1	10/20/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/19/95 by JF

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-6
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.021	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	11.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	DN	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	1.9	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	0.16	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Dissolved	2.6	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Dissolved	4.7	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	76	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)/kew
LJ18ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-6
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58S (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	29.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	2.1	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	1.6	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-7
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.55	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Dissolved	0.007	mg/l	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Dissolved	240	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Chromium, Dissolved	0.023	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/21/95	KW	2
Chromium, Trivalent Dissolved	0.023	mg/L	1.0	0.015	Calculation	11/14/95	DN	
Iron, Dissolved	77	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Dissolved	85.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Dissolved	30	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Dissolved	28	mg/L	1.0	0.50	200.7/6010	10/16/95	KW	1
Silicon, Dissolved	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Dissolved	1100	mg/L	20	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010
(2) Sample Preparation on 10/16/95 by GFB using 7195

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-7
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58D (FILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	92.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.074	mg/L	1.0	0.050	353.2	10/17/95	CM	
Organic Carbon, Dissolved (DOC)	47.	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	4500.	mg/L	4.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-8
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64S (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.41	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	14.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	1.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	2.6	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	0.34	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Total	2.4	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	5.5	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	46	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-9
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-64D (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.014	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.076	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	120	mg/L	1.0	0.050	200.7/6010	11/01/95	GB	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	65	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	33.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.6	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	12	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	8.9	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	220	mg/L	5.0	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-10
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62S (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.025	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.024	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	35.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	17.	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	5.3	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	5.0	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	9.8	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	6.5	mg/L	2.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	30	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

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(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-11
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62D (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.023	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	46.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	0.081	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	14.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	1.7	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Total	3.0	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	4.8	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	54	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-12
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-62BR (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Calcium, Total	470	mg/L	1.0	0.050	200.7/6010	11/01/95	GB	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	6.4	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	0.007	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	350	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	45	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	38	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	2100	mg/L	50	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew
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CC: OLIN-TN STEVE MORROW
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-13
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58S (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.025	mg/L	1.0	0.005	200.7/6010	11/01/95	GB	1
Calcium, Total	11.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	0.040	mg/L	1.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	1.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	0.17	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Potassium, Total	2.9	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	4.7	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	78	mg/L	1.0	0.10	200.7/6010	10/19/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1612-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-58D (UNFILT)	Aqueous	R. MEHALICK	10/16/95	10/16/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.63	mg/L	1.0	0.10	200.7/6010	10/30/95	KW	1
Arsenic, Total	0.008	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.009	mg/L	1.0	0.005	200.7/6010	11/01/95	GB	1
Calcium, Total	250	mg/L	1.0	0.050	200.7/6010	11/01/95	GB	1
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	10/27/95	KW	1
Iron, Total	75	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/27/95	KW	1
Magnesium, Total	89.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	31	mg/L	5.0	0.005	200.7/6010	10/30/95	KW	1
Potassium, Total	27	mg/L	1.0	0.50	200.7/6010	10/19/95	KW	1
Silicon, Total	12	mg/L	3.0	0.10	200.7/6010	10/19/95	KW	1
Sodium, Total	1100	mg/L	20	0.10	200.7/6010	10/20/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)/kew

CC: OLIN-TN STEVE MORROW
SMITH ENG R. SACKS
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Field Identification: GW-80S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-001	10/16/95		D3245-85
Chloride, dissolved (mg/L)	15	1	45663-010	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	5	1	45663-010	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	1	1	45663-010	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.16	0.02	45663-010	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.22	0.005	45663-020	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	6	1	45663-030	10/13/95	310	376.1/1

Field Identification: GW-80D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.5		45663-002	10/16/95		D3245-85
Chloride, dissolved (mg/L)	100	1	45663-011	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	2	1	45663-011	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	2	1	45663-011	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.29	0.02	45663-011	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.32	0.01	45663-021	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-031	10/13/95	310	376.1/1

Field Identification: GW-80BR (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-003	10/16/95		D3245-85
Chloride, dissolved (mg/L)	210	1	45663-012	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	4	1	45663-012	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	3	1	45663-012	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.12	0.02	45663-012	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	2.9	0.05	45663-022	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-032	10/13/95	310	376.1/1

US EPA ARCHIVE DOCUMENT

Field Identification: GW-808R (FILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-004	10/16/95		D3245-85
Chloride, dissolved (mg/L)	210	1	45663-013	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	4	1	45663-013	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	3	1	45663-013	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.09	0.02	45663-013	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	3.3	0.05	45663-023	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-033	10/13/95	310	376.1/1

Field Identification: GW-808R (FILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	260	1	45663-014	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	13	1	45663-014	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	11	1	45663-014	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.56	0.02	45663-014	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	5.5	0.05	45663-024	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	41	1	45663-034	10/13/95	310	376.1/1

Field Identification: GW-81D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-006	10/16/95		D3245-85
Chloride, dissolved (mg/L)	2	1	45663-015	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	6	1	45663-015	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-015	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-015	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.20	0.05	45663-025	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-035	10/13/95	310	376.1/1

US EPA ARCHIVE DOCUMENT

Field Identification: FIELD REP (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	2.5		45663-007	10/16/95		D3245-85
Chloride, dissolved (mg/L)	2	1	45663-016	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	6	1	45663-016	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-016	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-016	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.21	0.05	45663-026	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-036	10/13/95	310	376.1/1

Field Identification: GW-65BR (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.2		45663-008	10/16/95		D3245-85
Chloride, dissolved (mg/L)	27	1	45663-018	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	200	5	45663-018	10/17/95	667A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-018	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.03	0.02	45663-018	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.37	0.05	45663-028	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-038	10/13/95	310	376.1/1

Field Identification: GW-81BR (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Viscosity, dissolved (cpoise)	3.0		45663-009	10/16/95		D3245-85
Chloride, dissolved (mg/L)	45	1	45663-019	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	55	1	45663-019	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-019	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45663-019	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.09	0.05	45663-029	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-039	10/13/95	310	376.1/1

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Field Identification: GW-30D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	BDL	1	45663-017	10/16/95	763	325.1/1
Sulfate, dissolved (mg/L)	2	1	45663-017	10/13/95	666A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45663-017	10/13/95	666A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45663-017	10/13/95	201	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.07	0.05	45663-027	10/13/95	582	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45663-037	10/13/95	310	376.1/1

Field Identification: GW-80S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.20	0.005	45663-040	10/13/95	582	350.2/1

Field Identification: GW-80D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.27	0.01	45663-041	10/13/95	582	350.2/1

Field Identification: GW-80BR (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	2.8	0.05	45663-042	10/16/95	583	350.2/1

Field Identification: GW-80BR (UNFILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	3.0	0.05	45663-043	10/16/95	583	350.2/1

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Field Identification: GW-80BR (UNFILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	4.6	0.05	45663-044	10/16/95	583	350.2/1

Field Identification: GW-81D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.30	0.05	45663-045	10/13/95	582	350.2/1

Field Identification: FIELD REP (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.21	0.05	45663-046	10/13/95	582	350.2/1

Field Identification: GW-300 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	BDL	0.05	45663-047	10/13/95	582	350.2/1

Field Identification: GW-65BR (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.47	0.05	45663-048	10/16/95	583	350.2/1

Field Identification: GW-81BR (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.13	0.05	45663-049	10/16/95	583	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-1
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	17.	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	0.006	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.054	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.25	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	74.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	0.068	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	0.080	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	100.	mg/L	10	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	0.40	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	6.4	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	2.4	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	0.58	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-1
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	8.2	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	47.	mg/L	10	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	10.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	0.074	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	0.39	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

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(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-2
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.13	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.023	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.041	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	86.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	45	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	11.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	7.0	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-2
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	7.6	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	18.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	51.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-3
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.068	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	170	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	29	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	20	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	11.	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-3
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	5.9	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	18.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	56.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	0.012	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-4
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.97	mg/L	2.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	0.497	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	2.04	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	2.00	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	0.049	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	0.049	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	163.	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	0.186	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	0.514	mg/L	2.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	0.244	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	29.5	mg/L	2.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	0.492	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	24.7	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	10.6	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Total	2.23	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-4
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	0.501	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	29.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	1.96	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	19.3	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	0.047	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	61.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	1.95	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	0.516	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	0.503	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-5
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.063	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	156.	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	27.1	mg/L	5.0	0.025	200.7/6010	10/30/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	19.8	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	9.51	mg/L	2.0	0.005	200.7/6010	10/27/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-5
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	5.92	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	16.1	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	52.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	0.015	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-6
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.1	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	22.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.035	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	0.13	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-6
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	0.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	3.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	2.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-7
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	0.052	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-7
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	<0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-8
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1.0	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.014	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.043	mg/L	1.0	0.025	200.7/6010	10/28/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	0.12	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.008	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-8
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	0.56	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	2.8	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	2.3	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-9
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.20	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.21	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	25.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/30/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.12	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	0.50	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.007	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-9
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	370.	mg/L	10	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	16.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	120.	mg/L	10	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-10
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.27	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Total	0.068	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Total	37.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/30/95	KW	1
Cobalt, Total	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Total	0.63	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Total	0.011	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Total	4.2	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Total	0.078	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
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US EPA ARCHIVE DOCUMENT

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-10
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (UNFILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Total	18.	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Total	7.2	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Total	42.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Total	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Total	0.033	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-11
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.60	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.080	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	59.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	64.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	0.030	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	3.3	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-11
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	1.7	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	13.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	8.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.036	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-11
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	240.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	63.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	320.	mg/L	2.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-12
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.026	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	58.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	29.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	7.4	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-12
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	4.6	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	4.7	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	11.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	33.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-12
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	270.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.10	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	60.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.27	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	490.	mg/L	2.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-13
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.061	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	140	mg/L	2.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	26.	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	19.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-13
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	9.8	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.5	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	16.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	50.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-13
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PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	380.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.070	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	95.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.23	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1000.	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

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ATTN:STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.13	mg/L	2.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	0.525	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	2.17	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	2.15	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	0.051	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	0.050	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	175.	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	0.204	mg/L	2.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.030	mg/L	2.0	0.015	6010	10/20/95	KW	2,3
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/07/95	DN	4
Cobalt, Dissolved	0.544	mg/L	2.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	0.253	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	30.3	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) This is a calculation and is not applicable to a matrix spike.

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Bryan Dion 6/13/96
SIGNATURE DATE

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Westbrook, ME 04098
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FAX: 207-775-4029

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ENVIRONMENTAL LAB

OF LABORATORY ANALYSIS

CLIENT: DON CAMER
OLIN CHEM
51 EAMES S
WILMINGTO

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CAL RESULTS

SAMPLE DESCRIPTIO		SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	5	T. EBNER	10/12/95	10/12/95

PARAMETER		DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolv	/L	2.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolv	/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolve	/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	L	2.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissol		2.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolve		2.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolve	L	2.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolv	/L	2.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavale	/L	2.0	0.015	6010	10/20/95	KW	2,3
Chromium, Trivale	/L	1.0	0.015	Calculation	11/07/95	DN	4
Cobalt, Dissolved	/L	2.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	L	2.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Q
specific reporti
(1) Sample Prepar
(2) Sample Prepar
(3) The laborator
sample compos
(4) This is a calc

boratory reporting limits and may not reflect sample-
are indicated by results annotated with '<' values.

ould not be achieved for this parameter due to
, or quantity used for analysis.
matrix spike.

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE M
SMITH/BCM-RIC
PTI/CHRIS SEL

DATA VOID

E. Bryan Rivers 6/13/96
SIGNATURE DATE

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TEL: 207-87

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Lead, Dissolved	0.517	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	26.0	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Dissolved	11.4	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	1.12	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	0.527	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	31.4	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	2.07	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	20.7	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	0.051	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	64.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	2.06	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	0.544	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.535	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Beth Rivers 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Lead, Dissolved	0.517	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	26.0	mg/L	2.0	0.050	200.7/6010	10/28/95	KW	1
Manganese, Dissolved	11.4	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	1.12	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	0.527	mg/L	2.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	31.4	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	2.07	mg/L	2.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	20.7	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	0.051	mg/L	2.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	64.0	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	2.06	mg/L	2.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	0.544	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.535	mg/L	2.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA VOID
E Byrum Rowe 6/13/96
SIGNATURE DATE

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	360.	mg/L	1.0	20	APHA 406C	10/17/95	CM	1
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	1
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/24/95	NH	2
Nitrite as N, Dissolved	0.068	mg/L	1.0	0.050	353.2	10/13/95	CM	1
Orgsnic Carbon, Dissolved (DOC)	122.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.825	mg/L	1.0	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/17/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Please refer to cover letter\ case narrative for additional information concerning this sample result.
(2) This is a calculation and is not applicable to a matrix spike.
(3) Sample Preparation on 10/26/95 by CLM
(4) Sample Preparation on 10/16/95 by JF
(5) Matrix spike analysis is not applicable for this parameter.

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Bernhardt 6/17/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)/pph

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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FAX: 207-775-4029

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-14
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/MS)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	360.	mg/L	1.0	20	APHA 406C	10/17/95	CM	1
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	1
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/24/95	NH	2
Nitrite as N, Dissolved	0.068	mg/L	1.0	0.050	353.2	10/13/95	CM	1
Organic Carbon, Dissolved (DOC)	122.	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	0.825	mg/L	1.0	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/17/95	JF	4,5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Please refer to cover letter\ case narrative for additional information concerning this sample result.
(2) This is a calculation and is not applicable to a matrix spike.
(3) Sample Preparation on 10/26/95 by CLM
(4) Sample Preparation on 10/16/95 by JF
(5) Matrix spike analysis is not applicable for this parameter.

11/16/95

LJO/ejnjbb(dw)/pph

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA YGAD 6/13/96
DATE
SIGNATURE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

Lab Number : WL-1595-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	153.	mg/L	5.0	0.050	200.7/6010	10/30/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	29.2	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	20.6	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

RESUBMITTED BY CLIENT
INSERTED BY C. Byron Rusch 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY AN.

Lab Number : WL-159
Report Date: 11/16/
PO No. : SE-CH-

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMP
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANAL
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/2
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/2
Arsenic, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	10/2
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	10/2
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/2
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/2
Calcium, Dissolved	153.	mg/L	5.0	0.050	200.7/6010	10/3
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/2
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/0
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/2
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/2
Iron, Dissolved	29.2	mg/L	1.0	0.025	200.7/6010	10/2
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/2
Magnesium, Dissolved	20.6	mg/L	1.0	0.050	200.7/6010	10/2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may n specific reporting limits. Sample-specific limits are indicated by results annota
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA VOID
E. Bynum Rivers 6/13/96
DATE

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Westbrook, ME 04098
TEL: 207-874-2400

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	10.7	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	17.0	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	53.9	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	0.011	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY C. Ryan Rivers 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	10.7	mg/L	2.0	0.005	200.7/6010	10/26/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	5.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	17.0	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	53.9	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	0.011	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA REVIEW
E. Bryce Lewis
SIGNATURE
6/13/96
DATE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	376	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	0.069	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	91.2	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	2.60	mg/L	10	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1020	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

RESUBMITTED BY LABORATORY
INSERTED BY E. Byam Bwes SIGNATURE 6/13/96 DATE

11/16/95

LJO/ejnjhb(dw)/pph

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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Westbrook, ME 04098
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-15
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (FILT/DUP)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	376	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	20.0	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	0.069	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	91.2	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	2.60	mg/L	10	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1020	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejrrjbb(dw)/pph

DATA VOID 6/13/96
E. Bryan Kwan
SIGNATURE DATE

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
FIELD REP (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.97	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.10	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY C. Byron Rivers 6/3/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400
FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.97	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.012	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	20.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.10	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

DATA VOID 6/13/96

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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TEL: 207-874-2400

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US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	0.96	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	2.7	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	2.1	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Byron Ruiz 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LA

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAM
FIELD REP (FILT)	Aqueous	T.

PARAMETER	RESULT	UNITS	DF	*PQL
Manganese, Dissolved	<0.005	mg/L	1.0	0.00
Mercury, Dissolved	<0.20	µg/L	1.0	0.2
Nickel, Dissolved	<0.040	mg/L	1.0	0.0
Potassium, Dissolved	0.96	mg/L	1.0	0.3
Selenium, Dissolved	<0.005	mg/L	1.0	0.0
Silicon, Dissolved	2.7	mg/L	1.0	0.
Silver, Dissolved	<0.015	mg/L	1.0	0.0
Sodium, Dissolved	2.1	mg/L	1.0	0.1
Thallium, Dissolved	<0.010	mg/L	1.0	0.0
Vanadium, Dissolved	<0.025	mg/L	1.0	0.0
Zinc, Dissolved	<0.025	mg/L	1.0	0.0

* PQL (Practical Quantitation Level) represents laboratory reportin specific reporting limits. Sample-specific limits are indicated
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA VOID
E. Byron Ricard 6/13/96
SIGNATURE DATE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	25.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	1.6	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.45	mg/L	1.0	0.050	353.2	10/13/95	CM	
C[illegible]ic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT	
P[illegible]phorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	65.	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

REV
RESUBMITTED BY LABORATORY
INSERTED BY E. Byrne Lucey SIGNATURE 6/13/96 DATE

11/16/95

LJO/ejnjbb(dw)

cc: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-16
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	25.	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	1.6	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.45	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	65.	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

DATA VOID
E. Bryan Lewis 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.82	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.010	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	18.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.062	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.077	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Bryan Bass 6/13/96
SIGNATURE DATE

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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ORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

RON
ICALS
S STREET
ON, MA 01887

REPORT OF ANALYTICAL RESULTS

ION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
	Aqueous	T. EBNER	10/12/95	10/12/95

	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
lved	0.82	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
lved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
lved	0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
ed	0.010	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
lved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
lved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
lved	18.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
olved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
alent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
lent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
ed	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
ed	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
ed	0.062	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
lved	0.077	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

Quantitation Level) represents laboratory reporting limits and may not reflect sample-
ing limits. Sample-specific limits are indicated by results annotated with '<' values.
ation on 10/17/95 by VM using 3010
paration on 10/12/95 by GFB using 7195

DATA VOID
E. Bynulivers 6/13/96
SIGN

DRROW
SACKS
ELSTONE

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	2.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	1.8	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Bryant Evans 6/13/96
SIGNATURE DATE

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Westbrook, ME 04098
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FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	2.4	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	1.8	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

DATA VOID
E. Bryan Rivers 6/13/96
SIGNATURE DATE

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	25	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	1.7	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.43	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	63.	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

REVISED DATA
RESUBMITTED BY LABORATORY
INSERTED BY E. Bryan Ruscal 6/13/9
SIGNATURE DAT

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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FAX: 207-775-4029

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-18
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	25	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	1.7	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.43	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	63.	mg/L	1.0	10	160.1	10/17/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/16/95 by JF

DATA VOID
E. Bryan Rivers 6/13/96
DATE

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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US EPA ARCHIVE DOCUMENT

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-19
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.14	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	0.007	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.19	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	22.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.038	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	0.070	mg/L	1.0	0.050	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-19
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	330.	mg/L	10	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	14.	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	89.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-19
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	120	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	3.3	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2
Solids-Filt Residue, Dissolved	970.	mg/L	1.0	10	160.1	10/17/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-20
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.12	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	0.039	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	18.	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	0.19	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	2.9	mg/L	1.0	0.050	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-20
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	0.023	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	15.	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	6.1	mg/L	5.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	38.	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-20
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	50.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	0.81	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	0.14	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	1.1	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2
Solids-Filt Residue, Dissolved	280.	mg/L	4.0	10	160.1	10/17/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-17
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/24/95	KW	1
Antimony, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Beryllium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Cadmium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Calcium, Dissolved	0.074	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/26/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/20/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/07/95	DN	
Cobalt, Dissolved	<0.030	mg/L	1.0	0.030	200.7/6010	10/24/95	KW	1
Copper, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/26/95	KW	1
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/12/95 by GFB using 7195

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-17
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Mercury, Dissolved	<0.20	µg/L	1.0	0.20	245.1	10/26/95	JF	2
Nickel, Dissolved	<0.040	mg/L	1.0	0.040	200.7/6010	10/24/95	KW	1
Potassium, Dissolved	<0.50	mg/L	1.0	0.50	200.7/6010	10/18/95	KW	1
Selenium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	10/24/95	KW	1
Silicon, Dissolved	0.11	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Silver, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	10/24/95	KW	1
Sodium, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	10/18/95	KW	1
Thallium, Dissolved	<0.010	mg/L	1.0	0.010	200.7/6010	10/24/95	KW	1
Vanadium, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1
Zinc, Dissolved	0.051	mg/L	1.0	0.025	200.7/6010	10/24/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/17/95 by VM using 3010
(2) Sample Preparation on 10/25/95 by JAF using 245.1

11/16/95

LJO/ejnjbb(dw)
LJ17ICW1
CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5
Westbrook, ME 04098
TEL: 207-874-2400

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1595-17
Report Date: 11/16/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (FILT)	Aqueous	T. EBNER	10/12/95	10/12/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/17/95	CM	
Nitrate as N, Dissolved	0.08	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/13/95	CM	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	10/17/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/26/95	CM	1,2
Solids-Filt Residue, Dissolved	<10	mg/L	1.0	10	160.1	10/17/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/16/95 by JF

11/16/95

LJO/ejnjbb(dw)

CC: OLIN-TN
ATTN:STEVE MORROW
SMITH/BCM-RICK SACKS
PTI/CHRIS SELLSTONE

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Westbrook, ME 04098
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Field Identification: GW-44S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	9	1	45696-001	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	9	1	45696-001	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-001	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.08	0.02	45696-001	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.0		45696-016	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	2.3	0.05	45696-021	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-037	10/18/95	312	376.1/1

Field Identification: GW-44D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	13000	50	45696-002	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	28000	1000	45696-002	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-002	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.5	0.1	45696-002	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.5		45696-017	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	3400	50	45696-022	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	2	45696-038	10/18/95	312	376.1/1

Field Identification: GW-45S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	130	1	45696-003	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	28	1	45696-003	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-003	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-003	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	3.6	0.05	45696-023	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-039	10/18/95	312	376.1/1

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Field Identification: GW-45D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	8900	50	45696-004	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	32000	1000	45696-004	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-004	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.4	0.1	45696-004	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	3300	10	45696-024	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	2	45696-040	10/18/95	312	376.1/1

Field Identification: GW-42S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	85	1	45696-005	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	6	1	45696-005	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-005	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-005	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.0		45696-018	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	4.3	0.05	45696-025	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-041	10/18/95	312	376.1/1

Field Identification: GW-42D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	18000	100	45696-006	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	54000	1000	45696-006	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	50	45696-006	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.9	0.1	45696-006	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	3.5		45696-019	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	7300	50	45696-026	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	4	45696-042	10/18/95	312	376.1/1

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Field Identification: FIELD REP 2 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	18000	100	45696-007	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	35000	1000	45696-007	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	50	45696-007	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	1	0.1	45696-007	10/18/95	203	365.2/1
Viscosity, dissolved (cpoise)	4.0		45696-020	10/18/95		D3245-85
Ammonia-N, dissolved (mg/L as N)	7500	50	45696-027	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	4	45696-043	10/18/95	312	376.1/1

Field Identification: GW-43S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	93	1	45696-008	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	440	10	45696-008	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-008	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-008	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	84	0.5	45696-028	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-044	10/18/95	312	376.1/1

Field Identification: GW-43S (FILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	85	1	45696-009	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	410	10	45696-009	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-009	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-009	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	93	0.5	45696-029	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-045	10/18/95	312	376.1/1

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Field Identification: GW-43S (FILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	130	1	45696-010	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	530	10	45696-010	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	9	1	45696-010	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.51	0.02	45696-010	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	95	0.5	45696-030	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	40	1	45696-046	10/18/95	312	376.1/1

Field Identification: GW-43D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	4000	1000	45696-011	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	23000	1000	45696-011	10/24/95	671A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-011	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.26	0.02	45696-011	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	3400	10	45696-031	10/20/95	586	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-047	10/18/95	312	376.1/1

Field Identification: GW-50S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	75	1	45696-012	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	190	5	45696-012	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-012	10/20/95	669A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-012	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	53	0.3	45696-033	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-049	10/18/95	312	376.1/1

Field Identification: GW-50D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	1200	10	45696-013	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	4300	100	45696-013	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	20	45696-013	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-013	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	900	3	45696-034	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-050	10/18/95	312	376.1/1

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Field Identification: GW-40S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	24	1	45696-014	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	42	1	45696-014	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-014	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-014	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	BDL	0.05	45696-035	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-051	10/18/95	312	376.1/1

Field Identification: GW-40D (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Chloride, dissolved (mg/L)	100	1	45696-015	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	860	10	45696-015	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	2	1	45696-015	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.05	0.02	45696-015	10/18/95	203	365.2/1
Ammonia-N, dissolved (mg/L as N)	120	0.5	45696-036	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	3	1	45696-052	10/18/95	312	376.1/1

Field Identification: GW-40O (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N, dissolved (mg/L as N)	BDL	0.05	45696-032	10/19/95	585	350.2/1
Sulfide, dissolved (mg/L)	BDL	1	45696-048	10/18/95	312	376.1/1
Chloride, dissolved (mg/L)	BDL	1	45696-069	10/18/95	765	325.1/1
Sulfate, dissolved (mg/L)	1.9	1	45696-069	10/18/95	668A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45696-069	10/18/95	668A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45696-069	10/18/95	203	365.2/1

Field Identification: GW-44S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	0.12	0.05	45696-053	10/20/95	586	350.2/1

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Field Identification: GW-44D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	4100	10	45696-054	10/20/95	586	350.2/1

Field Identification: GW-45S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	2.8	0.05	45696-055	10/20/95	586	350.2/1

Field Identification: GW-45D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	3900	10	45696-056	10/20/95	586	350.2/1

Field Identification: GW-42S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	4.0	0.05	45696-057	10/20/95	586	350.2/1

Field Identification: GW-42D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	6900	50	45696-058	10/20/95	586	350.2/1

Field Identification: FIELD REP 2 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	7100	50	45696-059	10/20/95	586	350.2/1

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Field Identification: GW-43S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	85	0.5	45696-060	10/20/95	586	350.2/1

Field Identification: GW-43S (UNFILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	89	0.5	45696-061	10/20/95	586	350.2/1

Field Identification: GW-43S (UNFILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	110	0.5	45696-062	10/20/95	586	350.2/1

Field Identification: GW-43D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	3000	50	45696-063	10/20/95	586	350.2/1

Field Identification: GW-40D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	BDL	0.05	45696-064	10/20/95	586	350.2/1

Field Identification: GW-50S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	52	0.5	45696-065	10/20/95	586	350.2/1

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Field Identification: GW-50D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	950	5	45696-066	10/20/95	586	350.2/1

Field Identification: GW-40S (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	BDL	0.05	45696-067	10/20/95	586	350.2/1

Field Identification: GW-40D (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Ammonia-N (mg/L as N)	140	0.5	45696-068	10/20/95	586	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984
2) EPA SW 846, 3rd Edition
3) Standard Methods, 16th Edition

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-1
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.006	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B5.1	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.054	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	0.92	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	0.015	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	0.74	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	4	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	12	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnejn
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-2
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	990.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<2.5	mg/L	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B360	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	790	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1800.	mg/L	10	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.10	mg/L	10	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	750.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	150	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	110.	mg/L	2.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	61.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	10000.	mg/L	200	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
CC: OLIN-TN STEVE MORROW
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-3
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.034	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B15	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	2.4	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	0.89	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	2.5	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	4.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	68	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnejn
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-4
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	800.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<2.5	mg/L	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B350	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	560	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1200.	mg/L	10	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.087	mg/L	10	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	540.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	260	mg/L	500	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	110	mg/L	2.0	0.50	200.7/6010	10/30/95	KW	1
Silicon, Total	54.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	8700	mg/L	100	0.10	200.7/6010	10/30/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)/kew

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-5
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.39	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Barium, Total	0.032	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B4.5	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	14.	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	1.5	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	0.85	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	1.1	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	6	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	41.	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-6
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1500.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<10	mg/L	2000	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B370	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	2800	mg/L	2000	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1400.	mg/L	100	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.17	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	840.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	580.	mg/L	500	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	98	mg/L	2.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	22000.	mg/L	400	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-7
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP 2 (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	1500.	mg/L	10	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<10	mg/L	2000	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Total	<0.050	mg/L	10	0.005	200.7/6010	11/01/95	KW	1,2
Calcium, Total	B370	mg/L	10	0.050	200.7/6010	11/01/95	KW	1,3
Chromium, Total	2600	mg/L	2000	0.015	200.7/6010	11/06/95	KW	1
Iron, Total	1400.	mg/L	100	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.17	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	870.	mg/L	10	0.050	200.7/6010	11/01/95	KW	1
Manganese, Total	600.	mg/L	500	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	73.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1
Silicon, Total	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	21000.	mg/L	400	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-8
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
GW-43S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.074	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B49	mg/L	1.0	0.050	200.7/6010	11/01/95	KW	1,2
Chromium, Total	0.018	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.079	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	8.5	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.0	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	1.2	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	16.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	80.	mg/L	1.0	0.10	200.7/6010	10/27/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-9
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (UNFILT/DUP)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.075	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B51.1	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	8.85	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.11	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	1.11	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	16.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	87.7	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnejn
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-10
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (UNFILT/MS)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	2.05	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	2.12	mg/L	2.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	2.11	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B50.7	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,3
Chromium, Total	0.209	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.984	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	0.501	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	13.4	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	2.52	mg/L	2.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	24.6	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	18.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	89.3	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) Sample Preparation on 11/07/95 by VM using 3010

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnejn
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-11
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	440.	mg/L	20	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	2,3
Barium, Total	<0.10	mg/L	20	0.005	200.7/6010	11/01/95	KW	1,3
Calcium, Total	B290	mg/L	20	0.050	200.7/6010	10/30/95	KW	1,4
Chromium, Total	260	mg/L	200	0.015	200.7/6010	11/06/95	KW	2
Iron, Total	600.	mg/L	20	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.10	mg/L	20	0.005	200.7/6010	11/01/95	KW	1,3
Magnesium, Total	350.	mg/L	20	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	66.	mg/L	100	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	16.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1
Silicon, Total	37.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	4000.	mg/L	50	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) Sample Preparation on 11/03/95 by VM using 3010

(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(4) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-12
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-400 (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.053	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	<0.50	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	0.16	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/20/95 by VM using 3010
(2) Sample Preparation on 11/02/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-13
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.015	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B13	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.10	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	2.8	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	0.38	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	2.7	mg/L	1.0	0.50	200.7/6010	10/27/95	KW	1
Silicon, Total	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	64.	mg/L	1.0	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-14
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/01/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	10/30/95	KW	1
Barium, Total	0.016	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Calcium, Total	B330	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/01/95	KW	1
Iron, Total	0.38	mg/L	1.0	0.025	200.7/6010	11/01/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/01/95	KW	1
Magnesium, Total	84.	mg/L	1.0	0.050	200.7/6010	10/30/95	KW	1
Manganese, Total	10.	mg/L	10	0.005	200.7/6010	11/01/95	KW	1
Potassium, Total	26.	mg/L	10	0.50	200.7/6010	10/28/95	KW	1
Silicon, Total	7	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	1200.	mg/L	50	0.10	200.7/6010	10/28/95	KW	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/20/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.28 mg/L.

12/06/95

LJO/ejnjbb(dw)
LJ20ICW2
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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-15
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-40S (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.68	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Total	0.038	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Total	B12	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Iron, Total	0.24	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Total	1.1	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Total	0.061	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Total	1.9	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Total	2.7	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1
Sodium, Total	19	mg/L	1.0	0.10	200.7/6010	12/01/95	EM	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/22/95 by JAF using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.

12/06/95

LJO/ejnejn
LK22ICW3
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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-16
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
GW-40D (UNFILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Total	B190	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Iron, Total	0.16	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Total	11.	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Total	1.9	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Total	5.1	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Total	1.8	mg/L	1.0	0.2	200.7/6010	12/02/95	EM	1
Sodium, Total	190	mg/L	5.0	0.10	200.7/6010	12/01/95	EM	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/22/95 by JAF using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.

12/06/95

LJO/ejnejn/kew
LK22ICW3
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-19
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.034	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	16	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.076	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	2.5	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.91	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	4.3	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	75.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-19
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	2.0	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	1.2	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	280.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-20
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1100	mg/L	100	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<2.5	mg/L	500	0.005	200.7/6010	11/07/95	KW	1,2
Barium, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	500.	mg/L	100	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	680	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	2.4	mg/L	1.0	0.015	6010	10/31/95	KW	3
Chromium, Trivalent Dissolved	680	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	1500.	mg/L	100	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	770.	mg/L	100	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	280	mg/L	200	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	100.	mg/L	20	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	56.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	9300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnejn
LJ23ICW1
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-20
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-45D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	7.5	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353.2	10/19/95	CM	3
Organic Carbon, Dissolved (DOC)	430.	mg/L	8.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	4.4	mg/L	10	0.10	365.4	10/26/95	CM	4
Solids-Filt Residue, Dissolved	29000.	mg/L	20	10	160.1	10/23/95	JF	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 10/25/95 by CLM
(5) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-24
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.065	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	49.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.048	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	8.4	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	2.0	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	14.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	82.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
CC: OLIN-TN STEVE MORROW
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-24
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	76.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	5.6	mg/L	1.0	0.1	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	8.1	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	720.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-25
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT/DUP)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.069	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	49.6	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.053	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	8.62	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	2.03	mg/L	2.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	15.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	87.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-25
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT/DUP)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	84.5	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	5.4	mg/L	1.0	0.1	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	7.78	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	656	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)/pph

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-26
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT/MS)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.07	mg/L	2.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	1.96	mg/L	2.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	1.95	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	56.3	mg/L	2.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	0.205	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	2.14	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/20/95	DN	3
Iron, Dissolved	1.09	mg/L	2.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	0.525	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	14.4	mg/L	2.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	2.71	mg/L	2.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	27.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	19.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	100.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195
(3) This is a calculation and is not applicable to a matrix spike.

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-26
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43S (FILT/MS)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	83.5	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.1	353.2/1	10/25/95	NH	1
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	47.2	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	0.297	mg/L	1.0	0.10	365.4	11/10/95	CM	2
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/19/95	JF	3,4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) This is a calculation and is not applicable for this parameter.
(2) Sample Preparation on 11/09/95 by CLM
(3) Sample Preparation on 10/18/95 by JF
(4) Matrix spike analysis is not applicable for this parameter.

12/06/95

LJO/ejnjbb(dw)/pph

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-27
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
GW-43D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	420.	mg/L	5.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<2.5	mg/L	500	0.005	200.7/6010	11/07/95	KW	1,2
Barium, Dissolved	<0.025	mg/L	5.0	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	290.	mg/L	5.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	320	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	1.6	mg/L	1.0	0.015	6010	10/31/95	KW	3
Chromium, Trivalent Dissolved	320	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	570.	mg/L	5.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.025	mg/L	5.0	0.005	200.7/6010	11/06/95	KW	1,2
Magnesium, Dissolved	340.	mg/L	5.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	66.	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<30.	mg/L	10	3	200.7/6010	11/03/95	NH	1,2
Silicon, Dissolved	39.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	4300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-27
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-43D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	2.4	mg/L	1.0	0.5	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	540.	mg/L	2.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	3.0	mg/L	10	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	23000.	mg/L	20	10	160.1	10/20/95	JF	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Sample Preparation on 10/25/95 by CLM
(4) Sample Preparation on 10/19/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-28
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-400 (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.21	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	<1.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-28
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-400 (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.13	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	29.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

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Report Date: 12/06/95
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CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.014	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.057	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Magnesium, Dissolved	2.8	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	0.37	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	7	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	66.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnjbb(dw)
LJ23ICW1
CC: OLIN-TN STEVE MORROW
SMITH-R. SACKS
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-29
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	67.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.63	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	3.5	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	290.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-30
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.017	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	430.	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	0.35	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Magnesium, Dissolved	100	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	13.	mg/L	20	0.005	200.7/6010	11/07/95	KW	1
Potassium, Dissolved	39.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	1300.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-30
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	510.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.36	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	31.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	6000.	mg/L	5.0	10	160.1	10/20/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/19/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-31
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-40S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.50	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Dissolved	0.038	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Dissolved	B12	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/30/95	DN	
Iron, Dissolved	0.037	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Dissolved	1.1	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Dissolved	0.057	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Dissolved	1.5	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Dissolved	2.6	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1
Sodium, Dissolved	18	mg/L	1.0	0.10	200.7/6010	12/01/95	EM	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/22/95 by JAF using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.

(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-31
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-40S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.32	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	1.7	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	120.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-32
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-40D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Calcium, Dissolved	B170	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1,2
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/30/95	EM	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/30/95	DN	
Iron, Dissolved	0.11	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Magnesium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	11/30/95	EM	1
Manganese, Dissolved	1.7	mg/L	1.0	0.005	200.7/6010	11/30/95	EM	1
Potassium, Dissolved	4.3	mg/L	1.0	0.50	200.7/6010	12/01/95	EM	1
Silicon, Dissolved	1.6	mg/L	1.0	0.10	200.7/6010	12/02/95	EM	1
Sodium, Dissolved	100	mg/L	5.0	0.10	200.7/6010	12/01/95	EM	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/22/95 by JAF using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.10 mg/L.

(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

LJO/ejnejn
LK22ICW3
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-32
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-40D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	200.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.14	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	20.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	1300.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-17
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	0.86	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.011	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	3.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	12.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-17
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	24.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.13	mg/L	1.0	0.05	353.2/1	10/24/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	1.3	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	1.1	mg/L	10	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	58.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-18
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1300	mg/L	100	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<2.5	mg/l	500	0.005	200.7/6010	11/06/95	KW	1,2
Barium, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	500	mg/L	100	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	900	mg/L	500	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	4.7	mg/L	1.0	0.015	6010	11/03/95	KW	3
Chromium, Trivalent Dissolved	900	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	2500.	mg/L	100	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.50	mg/L	100	0.005	200.7/6010	11/06/95	KW	1,2
Magnesium, Dissolved	1100	mg/L	100	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	160	mg/L	100	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	100.	mg/L	20	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	63.	mg/L	20	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	11000.	mg/L	50	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-18
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-44D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	5.9	mg/L	1.0	0.5	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353.2	10/19/95	CM	3
Organic Carbon, Dissolved (DOC)	1500.	mg/L	8.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	5.5	mg/L	10	0.10	365.4	10/26/95	CM	4
Solids-Filt Residue, Dissolved	96000.	mg/L	50	10	160.1	10/20/95	JF	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(4) Sample Preparation on 10/25/95 by CLM
(5) Sample Preparation on 10/19/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-21
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/07/95	GB	1
Arsenic, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	KW	1
Barium, Dissolved	0.031	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.7	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	10/31/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	13.	mg/L	1.0	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.6	mg/L	1.0	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	0.82	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	6	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	41.	mg/L	1.0	1.	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-21
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	11.	mg/L	1.0	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	210.	mg/L	1.0	10	160.1	10/19/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/25/95 by CLM
(2) Sample Preparation on 10/18/95 by JF

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-22
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1800.	mg/L	200	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<10	mg/L	2000	0.005	200.7/6010	11/07/95	KW	1,2
Barium, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	440.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	2600	mg/L	5000	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	6.4	mg/L	1.0	0.015	6010	11/03/95	KW	3
Chromium, Trivalent Dissolved	2600	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	1600.	mg/L	200	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2
Magnesium, Dissolved	1100	mg/L	200	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	470	mg/L	1000	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<60.	mg/L	20	3	200.7/6010	11/03/95	NH	1,2
Silicon, Dissolved	90.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	19000.	mg/L	100	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-22
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42D (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	3.9	mg/L	1.0	0.5	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	1.2	mg/L	8.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	2700.	mg/L	20	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	18.	mg/L	10	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	73000.	mg/L	50	10	160.1	10/20/95	JF	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Sample Preparation on 10/25/95 by CLM
(4) Sample Preparation on 10/19/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-23
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
FIELD REP 2 (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2000.	mg/L	200	0.10	200.7/6010	11/07/95	KW	1
Arsenic, Dissolved	<10	mg/L	2000	0.005	200.7/6010	11/07/95	KW	1,2
Barium, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2
Calcium, Dissolved	560.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1
Chromium, Dissolved	2900	mg/L	5000	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	6.4	mg/L	1.0	0.015	6010	11/03/95	KW	3
Chromium, Trivalent Dissolved	2900	mg/L	1.0	0.015	Calculation	11/20/95	DN	
Iron, Dissolved	1800.	mg/L	200	0.025	200.7/6010	11/07/95	KW	1
Lead, Dissolved	<1.0	mg/L	200	0.005	200.7/6010	11/06/95	KW	1,2
Magnesium, Dissolved	1200.	mg/L	200	0.050	200.7/6010	11/07/95	KW	1
Manganese, Dissolved	550	mg/L	1000	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	60	mg/L	20	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	100.	mg/L	50	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	21000.	mg/L	100	1.	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

(3) Sample Preparation on 10/17/95 by GFB using 7195

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1622-23
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
FIELD REP 2 (FILT)	Aqueous	T. EBNER	10/17/95	10/17/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	3.6	mg/L	1.0	0.5	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	1.8	mg/L	8.0	0.050	353.2	10/19/95	CM	
Organic Carbon, Dissolved (DOC)	2500.	mg/L	20	1.0	415.1	11/03/95	LT	
Phosphorus, Dissolved as P	27.	mg/L	10	0.10	365.4	10/26/95	CM	3
Solids-Filt Residue, Dissolved	89000.	mg/L	50	10	160.1	10/20/95	JF	4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Sample Preparation on 10/25/95 by CLM
(4) Sample Preparation on 10/19/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-1
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.009	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	9.7	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B0.25	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	0.81	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.013	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	1.0	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	59.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-1
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	35	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.41	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.20	mg/L	4.0	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	6.8	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	260.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) Sample Preparation on 10/25/95 by CLM
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-2
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
SW-12 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.31	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.010	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.022	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	7.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B4.8	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.3	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.51	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	27.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
CC: OLIN-TN/STEVE MORROW
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-2
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.58	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	180.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) Sample Preparation on 10/25/95 by CLM
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-3
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.281	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.007	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.020	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	7.52	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B4.41	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.27	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.491	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	27.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-3
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.500	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	18.4	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	189	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) Sample Preparation on 10/25/95 by CLM
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)/pph

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-4
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.02	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	1.78	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	1.75	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	8.57	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	0.171	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	1.99	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	3
Iron, Dissolved	B4.45	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,4
Lead, Dissolved	0.420	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.51	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.827	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	27.	mg/L	1.0	3	200.7/6010	11/03/95	NH	1
Silicon, Dissolved	3.8	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(4) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.
(3) This is a calculation and is not applicable to a matrix spike.

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-4
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	29.	mg/L	1.0	1	200.7/6010	11/03/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-4
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20.0	mg/L	1.0	20	ALPHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/25/95	NH	1
Nitrite as N, Dissolved	4.52	mg/L	10	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	57.5	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	0.793	mg/L	1.0	0.10	365.4	11/10/95	CM	2
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/23/95	JF	3,4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 11/09/95 by CLM
(3) Sample Preparation on 10/20/95 by JF
(4) Matrix spike analysis is not applicable for this parameter.

12/06/95

LJO/ejmjbb(dw)/pph

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-5
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.12	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.007	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.044	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	110.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B3.7	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	6.8	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.75	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	140.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-5
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate, Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	6.0	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	2
Solids-Filt Residue, Dissolved	930.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) Sample Preparation on 10/25/95 by CLM
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-6
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW FIELD REP (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.14	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.009	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.047	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	120.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	0.017	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	0.017	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B4.1	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	7.1	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.80	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	5	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	150.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-6
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW FIELD REP (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	6.7	mg/L	1.0	0.1	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.50	mg/L	10	0.050	353.2	10/19/95	LT	1
Organic Carbon, Dissolved (DOC)	19.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	2,1
Solids-Filt Residue, Dissolved	860.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(2) Sample Preparation on 10/27/95 by CLM
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

CC: OLIN-TN/STEVE MORROW
SMITH/RICK SACKS
PTI/CHRIS SELLSTONE

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-7
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.021	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	290.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	11/14/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.42	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	0.5	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	93.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-7
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	4.2	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	12.	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	1400.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-8
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-500 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/18/95	KW	2
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	3
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	<0.025	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	<0.050	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	<1	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 11/15/95 by GFB using 3010
(3) Sample Preparation on 10/18/95 by GFB using 7195

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-8
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-500 (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	1
Carbonate, Dissolved as CaCO3	NR	mg/L	1.0	20	APHA 406C	10/24/95	CM	2
Nitrate as N, Dissolved	0.08	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	<1.0	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	3,4
Solids-Filt Residue, Dissolved	50.	mg/L	1.0	10	160.1	10/23/95	JF	5

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Initial sample pH was <4.5. Bicarbonate could not be analyzed.
(2) Initial sample pH was <4.5. Carbonate could not be analyzed.
(3) Sample Preparation on 10/27/95 by CLM
(4) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(5) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-9
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.20	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	27.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	0.028	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	0.028	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	0.33	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	3.0	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.21	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	4.6	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	35.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) Sample Preparation on 11/15/95 by GFB using 3010

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-9
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	42.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	0.37	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	8.2	mg/L	1.0	1.0	415.1	11/06/95	LT	
Phosphorus, Dissolved as P	1.3	mg/L	10	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	270.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-10
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.38	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.031	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.4	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B15	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.5	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.85	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	6	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	45	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-10
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	23.	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/24/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	13.	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	280.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-11
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	0.465	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.035	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	4.91	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B16.2	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	1.72	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.940	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	7	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	50.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-11
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	23.6	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	12.8	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.100	mg/L	1.0	0.10	365.4	10/26/95	CM	1
Solids-Filt Residue, Dissolved	247	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/26/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)/pph

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PTI/CHRIS SELLSTONE

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-12
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	2.08	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	1.69	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	1.67	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	6.26	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	0.162	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	0.056	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	3
Iron, Dissolved	B14.6	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,4
Lead, Dissolved	0.400	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.65	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	1.20	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	24.	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(4) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.
(3) This is a calculation and is not applicable to a matrix spike.

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-12
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Sodium, Dissolved	50.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-12
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (FILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	23.6	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20.0	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	Not Appl.	mg/L	1.0	0.05	353.2/1	10/25/95	NH	1
Nitrite as N, Dissolved	0.466	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	52.9	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	0.724	mg/L	1.0	0.10	365.4	11/10/95	CM	2
Solids-Filt Residue, Dissolved	Not Appl.	mg/L	1.0	10	160.1	10/23/95	JF	3,4

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) This is a calculation and is not applicable to a matrix spike.
(2) Sample Preparation on 11/09/95 by CLM
(3) Sample Preparation on 10/20/95 by JF
(4) Matrix spike analysis is not applicable for this parameter.

12/06/95

LJO/ejnjbb(dw)/pph

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-13
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.16	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	65.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	0.13	mg/L	1.0	0.025	200.7/6010	11/30/95	EM	3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	6.0	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.55	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	14.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	50.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) Sample Preparation on 11/22/95 by JAF using 3010

12/06/95

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-13
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	100.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	1.3	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	8.9	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	510.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-14
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW FIELD REP (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.15	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	64.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	0.19	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.55	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	14.	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	49.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) Sample Preparation on 11/15/95 by GFB using 3010

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-14
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW FIELD REP (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	100.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	1.2	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	8.9	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	560.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-15
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	1.1	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	0.008	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.016	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	160.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	0.22	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	0.22	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B5.9	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	5.9	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.93	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	64.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-15
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	22.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	<0.05	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	6.4	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	1,2
Solids-Filt Residue, Dissolved	910.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-16
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.018	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	420.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	B9.9	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	13.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	1.5	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	7	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	3.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	310.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-16
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	190.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	2.3	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	21.	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<1.0	mg/L	10	0.10	365.4	10/30/95	CM	1,2
Solids-Filt Residue, Dissolved	1700.	mg/L	1.0	10	160.1	10/23/95	JF	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.
(3) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-17
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Dissolved	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Dissolved	<0.005	mg/l	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Dissolved	0.015	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Dissolved	12.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Dissolved	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent Dissolved	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	2
Chromium, Trivalent Dissolved	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Dissolved	0.068	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3
Lead, Dissolved	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Dissolved	2.7	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Dissolved	0.37	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Dissolved	3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Dissolved	8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1
Sodium, Dissolved	74.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) Sample Preparation on 11/15/95 by GFB using 3010

12/06/95

LJO/ejnejn
LJ23ICW2
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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-17
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (FILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bicarbonate,Dissolved as HCO3	62.	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Carbonate, Dissolved as CaCO3	<20	mg/L	1.0	20	APHA 406C	10/25/95	CM	
Nitrate as N, Dissolved	0.82	mg/L	1.0	0.05	353.2/1	10/25/95	NH	
Nitrite as N, Dissolved	<0.050	mg/L	1.0	0.050	353.2	10/19/95	LT	
Organic Carbon, Dissolved (DOC)	2.8	mg/L	1.0	1.0	415.1	11/07/95	LT	
Phosphorus, Dissolved as P	<0.10	mg/L	1.0	0.10	365.4	10/30/95	CM	1
Solids-Filt Residue, Dissolved	340.	mg/L	1.0	10	160.1	10/23/95	JF	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/27/95 by CLM
(2) Sample Preparation on 10/20/95 by JF

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-18
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-14 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Total	0.010	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Total	11.	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	0.37	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	3
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Total	0.91	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Total	0.014	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	<3	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Total	1.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	66.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) Sample Preparation on 10/18/95 by GFB using 7195
(3) Sample Preparation on 11/15/95 by GFB using 3010

12/06/95

LJO/ejnejn
LJ23ICW2
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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-19
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.31	mg/L	1.0	0.10	200.7/6010	11/06/95	KW	1
Arsenic, Total	0.010	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Barium, Total	0.020	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Calcium, Total	7.3	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	2
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/06/95	KW	1
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	B5.6	mg/L	1.0	0.025	200.7/6010	11/06/95	KW	1,3
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Magnesium, Total	1.2	mg/L	1.0	0.050	200.7/6010	11/06/95	KW	1
Manganese, Total	0.49	mg/L	1.0	0.005	200.7/6010	11/06/95	KW	1
Potassium, Total	5	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Total	2.1	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1
Sodium, Total	25.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) Sample Preparation on 10/18/95 by GFB using 7195

(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of iron in the method blank was 0.11 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-20
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.295	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1
Arsenic, Total	0.007	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	0.017	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	B6.60	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	5.65	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	1.22	mg/L	1.0	0.050	200.7/6010	11/14/95	KW	2
Manganese, Total	B0.488	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2,5
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/15/95 by GFB using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
(4) Sample Preparation on 10/18/95 by GFB using 7195
(5) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.

12/06/95

LJO/ejnejn/jbb(dw)
LK15ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-20
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	B2.0	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	22.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 10/23/95 by VM using 3010

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.

12/06/95

LJO/ejnejn/jbb(dw)
LJ23ICW3
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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-21
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
SW-12 (UNFILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	2.32	mg/L	2.0	0.10	200.7/6010	11/30/95	EM	1
Arsenic, Total	1.87	mg/L	2.0	0.50	200.7/6010	11/09/95	KW	2
Barium, Total	1.71	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	B8.01	mg/L	2.0	0.050	200.7/6010	11/09/95	KW	2,3
Chromium, Hexavalent	1.81	mg/L	1.0	0.015	6010	11/14/95	KW	4
Chromium, Total	0.199	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	5
Iron, Total	6.73	mg/L	2.0	0.025	200.7/6010	11/30/95	EM	1
Lead, Total	0.446	mg/L	2.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	5.62	mg/L	2.0	0.050	200.7/6010	11/09/95	KW	2
Manganese, Total	B0.914	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2,6

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/22/95 by JAF using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
(4) Sample Preparation on 10/18/95 by GFB using 7195
(6) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.
(5) This is a calculation and is not applicable to a matrix spike.

12/06/95

LJO/ejnejn
LK22ICW3
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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-21
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-12 (UNFILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Potassium, Total	28.	mg/L	1.0	3	200.7/6010	11/04/95	NH	1
Silicon, Total	B3.9	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	26.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW3
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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-22
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-17 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.78	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	0.032	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	B89	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4
Chromium, Total	0.016	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.016	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	3.6	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	5.3	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2
Manganese, Total	B0.66	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2,5
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/15/95 by GFB using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
(4) Sample Preparation on 10/18/95 by GFB using 7195
(5) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.

12/06/95

LJO/ejnejn
LK15ICW2
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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-22
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
SW-17 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	B6	mg/L	10	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	110.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.

12/06/95

LJO/ejnejn
LJ23ICW3
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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-23
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW FIELD REP (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.84	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	0.044	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	B120	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4
Chromium, Total	0.023	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.023	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	3.7	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	7.3	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2
Manganese, Total	B0.89	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2,5
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/15/95 by GFB using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
(4) Sample Preparation on 10/18/95 by GFB using 7195
(5) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-23
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW FIELD REP (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	B8	mg/L	10	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	150.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-24
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	0.13	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	0.019	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	B280	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2,3
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/14/95	KW	4
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	0.53	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	5.9	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2
Manganese, Total	B0.46	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2,5
Potassium, Total	4	mg/L	1.0	3	200.7/6010	11/04/95	NH	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) Sample Preparation on 11/15/95 by GFB using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of calcium in the method blank was 0.18 mg/L.
(4) Sample Preparation on 10/18/95 by GFB using 7195
(5) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of manganese in the method blank was 0.005 mg/L.

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-24
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SW-16 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Silicon, Total	B0.5	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	1,2
Sodium, Total	90.	mg/L	1.0	1	200.7/6010	11/04/95	NH	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/23/95 by VM using 3010
(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of silicon in the method blank was 0.4 mg/L.

12/06/95

LJO/ejnejn
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ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-25
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-500 (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Aluminum, Total	<0.10	mg/L	1.0	0.10	200.7/6010	11/18/95	KW	1
Arsenic, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Barium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Calcium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	3
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	
Iron, Total	<0.025	mg/L	1.0	0.025	200.7/6010	11/18/95	KW	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/09/95	KW	2
Magnesium, Total	<0.050	mg/L	1.0	0.050	200.7/6010	11/09/95	KW	2
Manganese, Total	<0.005	mg/L	1.0	0.005	200.7/6010	11/07/95	GB	2
Potassium, Total	3	mg/L	1.0	3	200.7/6010	11/04/95	NH	2
Silicon, Total	<0.2	mg/L	1.0	0.2	200.7/6010	11/06/95	NH	2
Sodium, Total	<1	mg/L	1.0	1	200.7/6010	11/04/95	NH	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 11/15/95 by GFB using 3010
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) Sample Preparation on 10/18/95 by GFB using 7195

12/06/95

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-26
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-77S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.037	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.037	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-27
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-28
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT/DUP)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-29
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-42S (UNFILT/MS)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.064	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.212	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	Not Appl.	mg/L	1.0	0.015	Calculation	11/22/95	DN	3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010
(3) This is a calculation and is not applicable to a matrix spike.

12/06/95

LJO/ejnejn

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-30
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-76S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.020	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.020	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-31
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW FIELD REP (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.025	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.025	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-32
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-78S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	0.035	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.25	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.22	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejnjbb(dw)

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US EPA ARCHIVE DOCUMENT

Katahdin
ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-33
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-79S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	0.019	mg/L	1.0	0.015	200.7/6010	11/07/95	GB	2
Chromium, Trivalent	0.019	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

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Katahdin ANALYTICAL SERVICES

A WBE Laboratory

Lab Number : WL-1628-34
Report Date: 12/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-50S (UNFILT)	Aqueous	T. EBNER	10/18/95	10/18/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chromium, Hexavalent	<0.015	mg/L	1.0	0.015	6010	11/15/95	KW	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	11/09/95	GB	2
Chromium, Trivalent	<0.015	mg/L	1.0	0.015	Calculation	11/22/95	DN	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/18/95 by GFB using 7195
(2) Sample Preparation on 10/23/95 by VM using 3010

12/06/95

LJO/ejrjbb(dw)

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Field Identification: SW-14 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-001	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	72	1	45718-018	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	28	10	45718-018	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-018	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-018	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.08	0.05	45718-033	10/21/95	588	350.2/1

Field Identification: SW-12 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-002	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	37	1	45718-019	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	25	10	45718-019	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-019	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-019	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	BDL	0.05	45718-034	10/21/95	588	350.2/1

Field Identification: SW-12 (FILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-003	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	37	1	45718-020	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	26	10	45718-020	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-020	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-020	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.05	0.05	45718-035	10/21/95	588	350.2/1

Field Identification: SW-12 (FILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	34	1	45718-004	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	88	1	45718-021	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	140	10	45718-021	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	11	1	45718-021	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.48	0.02	45718-021	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.99	0.05	45718-036	10/21/95	588	350.2/1

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Field Identification: SW-17 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-005	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	160	1	45718-022	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	340	10	45718-022	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-022	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-022	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	170	5	45718-037	10/21/95	588	350.2/1

Field Identification: SW FIELD REP (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-006	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	160	1	45718-023	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	510	10	45718-023	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-023	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-023	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	160	5	45718-038	10/21/95	588	350.2/1

Field Identification: SW-16 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-007	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	78	1	45718-024	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	1000	10	45718-024	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-024	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-024	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	97	5	45718-039	10/21/95	588	350.2/1

Field Identification: GW-500 (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-008	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	BDL	1	45718-025	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	2	1	45718-025	10/24/95	670A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-025	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-025	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	BDL	0.05	45718-040	10/21/95	588	350.2/1

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Field Identification: GW-77S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	6	1	45718-009	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	50	1	45718-026	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	35	10	45718-026	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-026	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-026	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	0.31	0.05	45718-041	10/21/95	588	350.2/1

Field Identification: GW-42S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	2	1	45718-010	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	89	1	45718-027	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	6	1	45718-027	10/24/95	670A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-027	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-027	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	5.0	0.05	45718-042	10/21/95	588	350.2/1

Field Identification: GW-42S (FILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	2	1	45718-011	10/20/95	313	376.1/1
Ammonia-N, dissolved (mg/L as N)	4.6	0.05	45718-043	10/21/95	588	350.2/1
Chloride, dissolved (mg/L)	89	1	45718-045	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	6	1	45718-045	10/24/95	670A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-045	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-045	10/19/95	204	365.2/1

Field Identification: GW-42S (FILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	35	1	45718-012	10/20/95	313	376.1/1
Ammonia-N, dissolved (mg/L as N)	6.1	0.05	45718-044	10/21/95	588	350.2/1
Chloride, dissolved (mg/L)	130	1	45718-046	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	15	1	45718-046	10/24/95	670A	300.0/1
Bromide, dissolved (mg/L)	11	1	45718-046	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	0.48	0.02	45718-046	10/19/95	204	365.2/1

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Field Identification: GW-76S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	1	1	45718-013	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	34	1	45718-028	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	330	10	45718-028	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-028	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-028	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	90	5	45718-047	10/21/95	588	350.2/1

Field Identification: GW FIELD REP (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	10	1	45718-014	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	34	1	45718-029	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	350	10	45718-029	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-029	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-029	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	92	5	45718-048	10/21/95	588	350.2/1

Field Identification: GW-78S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	2	1	45718-015	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	83	1	45718-030	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	610	10	45718-030	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-030	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-030	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	80	5	45718-049	10/21/95	588	350.2/1

Field Identification: GW-79S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	1	1	45718-016	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	230	1	45718-031	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	2000	50	45718-031	10/24/95	670A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-031	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-031	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	380	5	45718-050	10/21/95	588	350.2/1

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Field Identification: GW-50S (FILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide, dissolved (mg/L)	BDL	1	45718-017	10/20/95	313	376.1/1
Chloride, dissolved (mg/L)	72	1	45718-032	10/23/95	767	325.1/1
Sulfate, dissolved (mg/L)	200	10	45718-032	10/20/95	669A	300.0/1
Bromide, dissolved (mg/L)	BDL	1	45718-032	10/24/95	670A	300.0/1
Ortho Phosphate, dissolved (mg/L as P)	BDL	0.02	45718-032	10/19/95	204	365.2/1
Ammonia-N, dissolved (mg/L as N)	68	0.5	45718-051	10/21/95	588	350.2/1

Field Identification: SW-14 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	BDL	1	45718-052	10/20/95	314	376.1/1
Chloride (mg/L)	72	1	45718-060	10/23/95	767	325.1/1
Sulfate (mg/L)	29	10	45718-060	10/20/95	669A	300.0/1
Bromide (mg/L)	BDL	1	45718-060	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-060	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	BDL	0.05	45718-068	10/23/95	589	350.2/1

Field Identification: SW-12 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	2	1	45718-053	10/20/95	314	376.1/1
Chloride (mg/L)	35	1	45718-061	10/23/95	767	325.1/1
Sulfate (mg/L)	25	10	45718-061	10/20/95	669A	300.0/1
Bromide (mg/L)	BDL	1	45718-061	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-061	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	0.1	0.05	45718-069	10/23/95	589	350.2/1

Field Identification: SW-12 (UNFILT/DUP) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	3	1	45718-054	10/20/95	314	376.1/1
Chloride (mg/L)	35	1	45718-062	10/23/95	767	325.1/1
Sulfate (mg/L)	29	10	45718-062	10/20/95	669A	300.0/1
Bromide (mg/L)	BDL	1	45718-062	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-062	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	0.10	0.05	45718-070	10/23/95	589	350.2/1

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Field Identification: SW-12 (UNFILT/MS) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	45	1	45718-055	10/20/95	314	376.1/1
Chloride (mg/L)	85	1	45718-063	10/23/95	767	325.1/1
Sulfate (mg/L)	120	10	45718-063	10/20/95	669A	300.0/1
Bromide (mg/L)	11	1	45718-063	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	0.47	0.02	45718-063	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	0.97	0.05	45718-071	10/23/95	589	350.2/1

Field Identification: SW-17 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	5	1	45718-056	10/20/95	314	376.1/1
Chloride (mg/L)	160	1	45718-064	10/23/95	767	325.1/1
Sulfate (mg/L)	520	10	45718-064	10/20/95	669A	300.0/1
Bromide (mg/L)	BDL	1	45718-064	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-064	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	90	10	45718-072	10/23/95	589	350.2/1

Field Identification: SW FIELD REP (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	BDL	1	45718-057	10/20/95	314	376.1/1
Chloride (mg/L)	160	1	45718-065	10/23/95	767	325.1/1
Sulfate (mg/L)	540	10	45718-065	10/20/95	669A	300.0/1
Bromide (mg/L)	BDL	1	45718-065	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-065	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	90	10	45718-073	10/23/95	589	350.2/1

Field Identification: SW-16 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	BDL	1	45718-058	10/20/95	314	376.1/1
Chloride (mg/L)	78	1	45718-066	10/23/95	767	325.1/1
Sulfate (mg/L)	1100	50	45718-066	10/24/95	670A	300.0/1
Bromide (mg/L)	BDL	1	45718-066	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-066	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	60	10	45718-074	10/23/95	589	350.2/1

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Field Identification: GW-500 (UNFILT) Matrix: WATER

Parameter	Result	Reporting Limit	Lab No.	Date Analyzed	QC Batch	Method/Ref.
Sulfide (mg/L)	BDL	1	45718-059	10/20/95	314	376.1/1
Chloride (mg/L)	BDL	1	45718-067	10/23/95	767	325.1/1
Sulfate (mg/L)	BDL	1	45718-067	10/24/95	670A	300.0/1
Bromide (mg/L)	BDL	1	45718-067	10/24/95	671A	300.0/1
Ortho Phosphate (mg/L as P)	BDL	0.02	45718-067	10/19/95	205	365.2/1
Ammonia-N (mg/L as N)	BDL	0.05	45718-075	10/23/95	589	350.2/1

References: 1) 40 CFR Part 136, Friday, October 26, 1984

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pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-1
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
Methylene chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
Acetone	52.	µg/L	1.0	15	EPA 8240	10/20/95	TG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Total 1,2-Dichloroethene	14.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
2-Butanone	19.	µg/L	1.0	15	EPA 8240	10/20/95	TG	
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

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SMITH/RICK SACKS
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ENVIRONMENTAL LABORATORIES

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	TG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Benzene	28.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	TG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	TG	
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	TG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-1
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80S (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Toluene	4400.	µg/L	50.	5	EPA 8240	10/20/95	TG	
Chlorobenzene	J1.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Ethylbenzene	1300.	µg/L	50.	5	EPA 8240	10/20/95	TG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	TG	
Total Xylenes	2800.	µg/L	50.	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane-d4 (% Recovery)	95.	%	1.0		EPA 8240	10/20/95	TG	
Toluene-d8 (% Recovery)	91.	%	1.0		EPA 8240	10/20/95	TG	
p-Bromofluorobenzene (% Recovery)	99.	%	1.0		EPA 8240	10/20/95	TG	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-2
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	19.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	J230	µg/L	50.	10	EPA 8240	10/20/95	LG	
Methylene chloride	B31	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	31.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	J2	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	430.	µg/L	50.	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	160.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	J13	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	94.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	7100.	µg/L	50.	5	EPA 8240	10/20/95	LG	
Chlorobenzene	79.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	340.	µg/L	50.	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	1100.	µg/L	50.	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	103.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	91.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	103.	%	1.0		EPA 8240	10/20/95	LG	

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11/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-3
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2,3
Chloromethane	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
Bromomethane	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
Vinyl chloride	300.	µg/L	10	10	EPA 8240	10/20/95	TG	
Chloroethane	790.	µg/L	10	10	EPA 8240	10/20/95	TG	
Methylene chloride	B220	µg/L	10	10	EPA 8240	10/20/95	TG	
Acetone	280.	µg/L	10	15	EPA 8240	10/20/95	TG	
Carbon disulfide	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
1,1-Dichloroethene	120.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1-Dichloroethane	1100.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total 1,2-Dichloroethene	1300.	µg/L	10	5	EPA 8240	10/20/95	TG	
Chloroform	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane	J23	µg/L	10	5	EPA 8240	10/20/95	TG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

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SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	300.	µg/L	10	15	EPA 8240	10/20/95	TG	
1,1,1-Trichloroethane	1500.	µg/L	10	5	EPA 8240	10/20/95	TG	
Carbon tetrachloride	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Vinyl acetate	<150.	µg/L	10	15	EPA 8240	10/20/95	TG	
Bromodichloromethane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloropropane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
cis-1,3-Dichloropropene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Trichloroethene	56.	µg/L	10	5	EPA 8240	10/20/95	TG	
Dibromochloromethane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2-Trichloroethane	J26	µg/L	10	5	EPA 8240	10/20/95	TG	
Benzene	130.	µg/L	10	5	EPA 8240	10/20/95	TG	
trans-1,3-Dichloropropene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Bromoform	J12	µg/L	10	5	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-2-pentene	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	

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GW-80BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,4-Trimethyl-1-pentene	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
4-Methyl-2-pentanone	1200.	µg/L	10	15	EPA 8240	10/20/95	TG	
2-Hexanone	<150.	µg/L	10	15	EPA 8240	10/20/95	TG	
Tetrachloroethene	J43	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2,2-Tetrachloroethane	JB41	µg/L	10	5	EPA 8240	10/20/95	TG	
Toluene	15000.	µg/L	100.	5	EPA 8240	10/20/95	TG	
Chlorobenzene	170.	µg/L	10	5	EPA 8240	10/20/95	TG	
Ethylbenzene	290.	µg/L	10	5	EPA 8240	10/20/95	TG	
Styrene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total Xylenes	1100.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane-d4 (% Recovery)	96.	%	10		EPA 8240	10/20/95	TG	
Toluene-d8 (% Recovery)	96.	%	10		EPA 8240	10/20/95	TG	
p-Bromofluorobenzene (% Recovery)	100.	%	10		EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-4
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2,3
Chloromethane	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
Bromomethane	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
Vinyl chloride	410.	µg/L	10	10	EPA 8240	10/20/95	TG	
Chloroethane	1100.	µg/L	10	10	EPA 8240	10/20/95	TG	
Methylene chloride	B230	µg/L	10	10	EPA 8240	10/20/95	TG	
Acetone	<150.	µg/L	10	15	EPA 8240	10/20/95	TG	
Carbon disulfide	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
1,1-Dichloroethene	130.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1-Dichloroethane	1500.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total 1,2-Dichloroethene	1700.	µg/L	10	5	EPA 8240	10/20/95	TG	
Chloroform	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane	J13	µg/L	10	5	EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-4
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	390.	µg/L	10	15	EPA 8240	10/20/95	TG	
1,1,1-Trichloroethane	2000.	µg/L	10	5	EPA 8240	10/20/95	TG	
Carbon tetrachloride	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Vinyl acetate	<150.	µg/L	10	15	EPA 8240	10/20/95	TG	
Bromodichloromethane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloropropane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
cis-1,3-Dichloropropene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Trichloroethene	53.	µg/L	10	5	EPA 8240	10/20/95	TG	
Dibromochloromethane	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2-Trichloroethane	J21	µg/L	10	5	EPA 8240	10/20/95	TG	
Benzene	150.	µg/L	10	5	EPA 8240	10/20/95	TG	
trans-1,3-Dichloropropene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Bromoform	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-2-pentene	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/DUP)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,4-Trimethyl-1-pentene	<100.	µg/L	10	10	EPA 8240	10/20/95	TG	
4-Methyl-2-pentanone	1600.	µg/L	10	15	EPA 8240	10/20/95	TG	
2-Hexanone	<150.	µg/L	10	15	EPA 8240	10/20/95	TG	
Tetrachloroethene	J39	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2,2-Tetrachloroethane	JB33	µg/L	10	5	EPA 8240	10/20/95	TG	
Toluene	15000.	µg/L	100.	5	EPA 8240	10/20/95	TG	
Chlorobenzene	190.	µg/L	10	5	EPA 8240	10/20/95	TG	
Ethylbenzene	350.	µg/L	10	5	EPA 8240	10/20/95	TG	
Styrene	<50.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total Xylenes	1300.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane-d4 (% Recovery)	99.	%	10		EPA 8240	10/20/95	TG	
Toluene-d8 (% Recovery)	99.	%	10		EPA 8240	10/20/95	TG	
p-Bromofluorobenzene (% Recovery)	102.	%	10		EPA 8240	10/20/95	TG	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-5
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/MS)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	370.	µg/L	10	10	EPA 8240	10/20/95	TG	
Bromomethane	460.	µg/L	10	10	EPA 8240	10/20/95	TG	
Vinyl chloride	780.	µg/L	10	10	EPA 8240	10/20/95	TG	
Chloroethane	1300.	µg/L	10	10	EPA 8240	10/20/95	TG	
Methylene chloride	B690	µg/L	10	10	EPA 8240	10/20/95	TG	
Acetone	710.	µg/L	10	15	EPA 8240	10/20/95	TG	
Carbon disulfide	470.	µg/L	10	10	EPA 8240	10/20/95	TG	
1,1-Dichloroethene	630.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1-Dichloroethane	1800.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total 1,2-Dichloroethene	11000.	µg/L	100.	5	EPA 8240	10/20/95	TG	
Chloroform	510.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane	520.	µg/L	10	5	EPA 8240	10/20/95	TG	
2-Butanone	550.	µg/L	10	15	EPA 8240	10/20/95	TG	

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(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

(2) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/MS)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	6800.	µg/L	100.	5	EPA 8240	10/20/95	TG	
Carbon tetrachloride	500.	µg/L	10	5	EPA 8240	10/20/95	TG	
Vinyl acetate	370.	µg/L	10	15	EPA 8240	10/20/95	TG	
Bromodichloromethane	500.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,2-Dichloropropane	520.	µg/L	10	5	EPA 8240	10/20/95	TG	
cis-1,3-Dichloropropene	500.	µg/L	10	5	EPA 8240	10/20/95	TG	
Trichloroethene	540.	µg/L	10	5	EPA 8240	10/20/95	TG	
Dibromochloromethane	480.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2-Trichloroethane	510.	µg/L	10	5	EPA 8240	10/20/95	TG	
Benzene	620.	µg/L	10	5	EPA 8240	10/20/95	TG	
trans-1,3-Dichloropropene	490.	µg/L	10	5	EPA 8240	10/20/95	TG	
Bromoform	490.	µg/L	10	5	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-2-pentene	4700.	µg/L	100.	10	EPA 8240	10/20/95	TG	
2,4,4-Trimethyl-1-pentene	4400.	µg/L	100.	10	EPA 8240	10/20/95	TG	
4-Methyl-2-pentanone	8800.	µg/L	100.	15	EPA 8240	10/20/95	TG	

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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-80BR (UNFILT/MS)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	300.	µg/L	10	15	EPA 8240	10/20/95	TG	
Tetrachloroethene	530.	µg/L	10	5	EPA 8240	10/20/95	TG	
1,1,2,2-Tetrachloroethane	B560	µg/L	10	5	EPA 8240	10/20/95	TG	
Toluene	20000.	µg/L	100.	5	EPA 8240	10/20/95	TG	
Chlorobenzene	680.	µg/L	10	5	EPA 8240	10/20/95	TG	
Ethylbenzene	770.	µg/L	10	5	EPA 8240	10/20/95	TG	
Styrene	510.	µg/L	10	5	EPA 8240	10/20/95	TG	
Total Xylenes	19000.	µg/L	100.	5	EPA 8240	10/20/95	TG	
1,2-Dichloroethane-d4 (% Recovery)	105.	%	10		EPA 8240	10/20/95	TG	
Toluene-d8 (% Recovery)	101.	%	10		EPA 8240	10/20/95	TG	
p-Bromofluorobenzene (% Recovery)	101.	%	10		EPA 8240	10/20/95	TG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-6
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	JB3	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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11/06/95

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-6
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81D (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	J3	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	101.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	100.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	96.	%	1.0		EPA 8240	10/20/95	LG	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-7
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

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CLIENT: DON CAMERON
OLIN CHEMICALS
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REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-7
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-81BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	9.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	J1	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	97.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	97.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	100.	%	1.0		EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

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ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-8
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	J3	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-8
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-8
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-65BR (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	6.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	J1	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	96.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	99.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	96.	%	1.0		EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-9
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-9
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-9
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
FIELD REP (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	J3	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	97.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	99.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	98.	%	1.0		EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-10
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	JB2	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	20.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	J1	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	J1	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

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Westbrook, ME 04098
TEL: 207-874-2400

An Equal Opportunity Employer

US EPA ARCHIVE DOCUMENT

pace INCORPORATED
ENVIRONMENTAL LABORATORIES

REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-10
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
OLIN CHEMICALS
51 EAMES STREET
WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
GW-300 (UNFILT)	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	8.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	97.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	99.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	98.	%	1.0		EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

11/06/95

LJO/jcbgbp(dw)/jfg/lag/sra

CC: OLIN-TN/STEVE MORROW
SMITH/RICK SACKS
PTI/CHRIS SELLSTONE

P.O. Box 720 - 340 County Road #5
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REPORT OF LABORATORY ANALYSIS

Lab Number : WL-1644-11
Report Date: 11/06/95
PO No. : SE-CH-827-VAR-C

CLIENT: DON CAMERON
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WILMINGTON, MA 01887

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	R. MEHALICK	10/19/95	10/19/95

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Volatile Organics + Trimethylpentenes by USEPA 8240								1,2
Chloromethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Bromomethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Vinyl chloride	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Chloroethane	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Methylene chloride	JB2	µg/L	1.0	10	EPA 8240	10/20/95	LG	
Acetone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Carbon disulfide	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total 1,2-Dichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chloroform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2-Butanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

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PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Carbon tetrachloride	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Vinyl acetate	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Bromodichloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloropropane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
cis-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Trichloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Dibromochloromethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2-Trichloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Benzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
trans-1,3-Dichloropropene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Bromoform	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-2-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
2,4,4-Trimethyl-1-pentene	<10.	µg/L	1.0	10	EPA 8240	10/20/95	LG	
4-Methyl-2-pentanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	

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PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<15.	µg/L	1.0	15	EPA 8240	10/20/95	LG	
Tetrachloroethene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,1,2,2-Tetrachloroethane	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Toluene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Chlorobenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Ethylbenzene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Styrene	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
Total Xylenes	<5.	µg/L	1.0	5	EPA 8240	10/20/95	LG	
1,2-Dichloroethane-d4 (% Recovery)	103.	%	1.0		EPA 8240	10/20/95	LG	
Toluene-d8 (% Recovery)	97.	%	1.0		EPA 8240	10/20/95	LG	
p-Bromofluorobenzene (% Recovery)	92.	%	1.0		EPA 8240	10/20/95	LG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

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