

**ANNUAL REPORT
FOR THE HAMLET OF CLYDE RIVER, 2014**

YEAR BEING REPORTED: 2014

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence # 3BM-CLY0308 issued to the Hamlet of Clyde River.

- i) - iii) tabular summaries of all data generated under the "Monitoring Program"; monthly and annual quantities in cubic metres of freshwater obtained from all sources; monthly and annual quantities in cubic metres of each and all wastes discharged;

Attached are quantities of water used as reported in our On Tap Water Delivery System and the estimated discharge of sewage waste based on quantities used.

Month Reported	Quantity of Water Obtained from all sources (litres)	Quantity of Sewage Waste Discharged (Estimated)
January 2014	2,769,732.20	Same
February 2014	2,546,071.30	Same
March 2014	3,205,542.70	Same
April 2014	2,916,194.00	Same
May 2014	3,004,823.40	Same
June 2014	2,865,438.70	Same
July 2014	2,972,924.30	Same
August 2014	3,004,913.70	Same
September 2014	2,973,962.10	Same
October 2014	2,970,919.90	Same
November 2014	2,716,859.30	Same
December 2014	2,992,707.50	Same
ANNUAL TOTAL	34,940,089.10	34,940,089.10

Note: The consumption volume is considered equal to the discharge volume for each month because there is no meter at the end of the discharge pipe.

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- iv. a summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities;
Solid waste project is still on hold. No modifications and /or major maintenance work was carried out for any of the three environmental facilities under the licence during the reporting period.
-
- v. a list of unauthorized discharges and summary of follow-up action taken;
Spills:
2014125; 2014-04-28; Clyde River, Diesel Fuel, 96L
-
- vi. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
No abandonment and restoration work was carried out during this reporting period. The existing landfill site will be abandoned and restored once the new facility is built.
-
- vii. a summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned;

The waste management facility is the major concern of the NWB and AANDC. The new project was initiated but stopped by GN due to funding constraints.
-
- vi. any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and

Current waste management site is the main concern of Nunavut Water Board. However, the Hamlet is expecting segregation of wastes like batteries etc. again in summer 2015. The site was fenced last summer.
-
- viii. updates or revisions to the approved Operation and Maintenance Plans.
O&M manual has been prepared for the existing non engineered waste management site and submitted to NWB. The Sewage Lagoons and Water supply system are operated under the guidelines of the existing O&M manuals.

ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Hamlet has been following CGS extending sampling program for water, wastewater and leachate sampling and testing using Caduecon Lab in Ottawa. They are maintaining CGS report card in order to manage their Environmental facilities more effectively and productively.

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FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

Hamlet is working closely with the newly formed Water Licence Compliance Group (WLCG) to deal with any water licence compliancy. Currently Hamlet has a new Water Licence.

The Lab Test Results for 2014 are submitted in a separate document.

IVEY
S.A.O.

C.O.C.: G04598

REPORT No. B14-24696

Report To:

Hamlet of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada

Attention: John Ivey

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 22-Sep-14

JOB/PROJECT NO.:

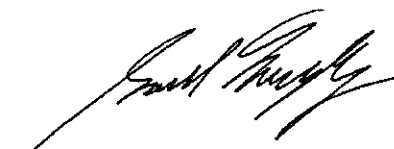
DATE REPORTED: 30-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Beach Area	Middle of Lagoon & Shore	Waste Water out of Pipe	
			Sample I.D.	B14-24696-1	B14-24696-2	B14-24696-3	
			Date Collected	18-Sep-14	18-Sep-14	18-Sep-14	
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Total Suspended Solids	mg/L	3	SM 2540D	24-Sep-14/O	5	32	
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-14/O	16	32	31
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Sep-14/O	36		298
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Sep-14/O	270		807
pH @25°C	pH Units		SM 4500H	24-Sep-14/O	7.31		7.55
Nitrite (N)	mg/L	0.1	SM4110C	23-Sep-14/O	< 0.1		< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	23-Sep-14/O	5.5		< 0.1
Chloride	mg/L	0.5	SM4110C	23-Sep-14/O	45.3		52.8
Sulphate	mg/L	1	SM4110C	23-Sep-14/O	2		3
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Sep-14/O	26.3	27.3	48.0
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	25-Sep-14/O	2.99	58.6	61.2
Phenolics	mg/L	0.001	MOEE 3179	24-Sep-14/O	< 0.001	0.004	0.041
Aluminum (total)	mg/L	0.01	SM 3120	24-Sep-14/O	0.23	0.22	0.21
Arsenic	mg/L	0.0005	EPA 200.8	24-Sep-14/O	< 0.0005	0.0008	0.0006
Calcium	mg/L	0.02	SM 3120	24-Sep-14/O	2.74	5.74	5.79
Cadmium	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	< 0.005
Chromium	mg/L	0.002	SM 3120	24-Sep-14/O	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	24-Sep-14/O	0.019	0.072	0.065
Iron (Total)	mg/L	0.005	SM 3120	24-Sep-14/O	0.221	1.06	1.75
Lead	mg/L	0.02	SM 3120	24-Sep-14/O	< 0.02	< 0.02	< 0.02
Magnesium	mg/L	0.01	SM 3120	24-Sep-14/O	2.15	4.30	4.04
Manganese (Total)	mg/L	0.001	SM 3120	24-Sep-14/O	0.002	0.054	0.144
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-14/O	0.00002	0.00002	0.00003
Nickel	mg/L	0.01	SM 3120	24-Sep-14/O	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	24-Sep-14/O	4.5	18.9	17.5



M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Gord Murphy
Lab Supervisor

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G04598

REPORT No. B14-24696

Report To:

Hamlet of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada

Attention: John Ivey

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 22-Sep-14

JOB/PROJECT NO.:

DATE REPORTED: 30-Sep-14

P.O. NUMBER:

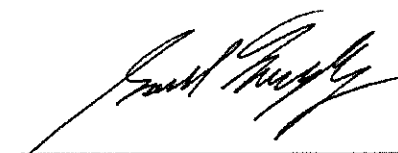
SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Beach Area	Middle of Lagoon & Shore	Waste Water out of Pipe	
			Sample I.D.	B14-24696-1	B14-24696-2	B14-24696-3	
			Date Collected	18-Sep-14	18-Sep-14	18-Sep-14	
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Sodium	mg/L	0.2	SM 3120	24-Sep-14/O	32.5	48.8	45.6
Zinc	mg/L	0.005	SM 3120	24-Sep-14/O	0.008	0.041	0.039
Oil & Grease-Total	mg/L	1.0	SM 5520	29-Sep-14/K	2.1	5.9	71.7
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-14/O	< 10	2400	6800

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Gord Murphy

Lab Supervisor

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C.O.C.: ---

REPORT No. B14-24612

Report To:

Hamlet of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada

Attention: John Ivey

Caduceon Environmental Laboratories

2378 Holly Lane
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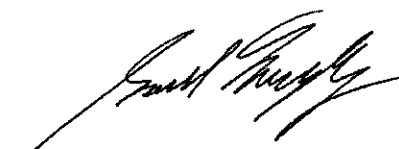
DATE REPORTED: 30-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Beach Area - Sept. 16, 2014	Between Beach and Lagoon - Sept. 16, 2014	End of Pipe - Sept. 16, 2014	
			Sample I.D.	B14-24612-1	B14-24612-2	B14-24612-3	
			Date Collected	16-Sep-14	16-Sep-14	16-Sep-14	
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	24-Sep-14/O	< 3	24	65
Total Suspended Solids	mg/L	3	SM 2540D	24-Sep-14/O	4	18	5
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-14/O	24	31	34
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Sep-14/O	14	284	300
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Sep-14/O	263	781	817
pH @25°C	pH Units		SM 4500H	23-Sep-14/O	7.00	7.56	7.64
Nitrite (N)	mg/L	0.1	SM4110C	23-Sep-14/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	23-Sep-14/O	10.0	< 0.1	< 0.1
Chloride	mg/L	0.5	SM4110C	23-Sep-14/O	43.0	53.8	53.0
Sulphate	mg/L	1	SM4110C	23-Sep-14/O	1	3	3
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Sep-14/O	20.8	32.0	34.1
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	25-Sep-14/O	1.24	55.6	58.7
Phenolics	mg/L	0.001	MOEE 3179	24-Sep-14/O	< 0.001	0.004	0.004
Aluminum (total)	mg/L	0.01	SM 3120	24-Sep-14/O	0.35	0.16	0.18
Arsenic	mg/L	0.0005	EPA 200.8	24-Sep-14/O	< 0.0005	0.0006	0.0008
Calcium	mg/L	0.02	SM 3120	24-Sep-14/O	4.19	5.53	6.21
Cadmium	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	< 0.005
Chromium	mg/L	0.002	SM 3120	24-Sep-14/O	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	24-Sep-14/O	0.015	0.062	0.076
Iron (Total)	mg/L	0.005	SM 3120	24-Sep-14/O	0.202	0.782	1.54
Lead	mg/L	0.02	SM 3120	24-Sep-14/O	< 0.02	< 0.02	< 0.02
Magnesium	mg/L	0.01	SM 3120	24-Sep-14/O	3.35	4.11	4.41
Manganese (Total)	mg/L	0.001	SM 3120	24-Sep-14/O	0.003	0.027	0.141
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-14/O	0.00002	0.00003	0.00002



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

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REPORT No. B14-24612

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Clyde River Nunavut X0A 0E0 Canada

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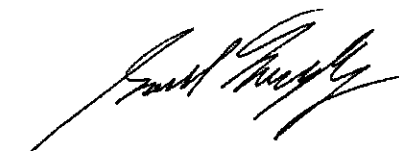
SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Beach Area - Sept. 16, 2014	Between Beach and Lagoon - Sept. 16, 2014	End of Pipe - Sept. 16, 2014	
			Sample I.D.	B14-24612-1	B14-24612-2	B14-24612-3	
			Date Collected	16-Sep-14	16-Sep-14	16-Sep-14	
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Nickel	mg/L	0.01	SM 3120	24-Sep-14/O	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	24-Sep-14/O	4.3	19.1	19.9
Sodium	mg/L	0.2	SM 3120	24-Sep-14/O	41.4	50.4	51.4
Zinc	mg/L	0.005	SM 3120	24-Sep-14/O	0.008	0.042	0.062
Oil & Grease-Total	mg/L	1.0	SM 5520	29-Sep-14/K	2.1	6.9	
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-14/O	< 10	1160	58000

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Gord Murphy
Lab Supervisor

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C.O.C.: ---

REPORT No. B14-24702

Report To:

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Box 89,
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Attention: John Ivey

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DATE RECEIVED: 23-Sep-14

JOB/PROJECT NO.:

DATE REPORTED: 30-Sep-14

P.O. NUMBER:

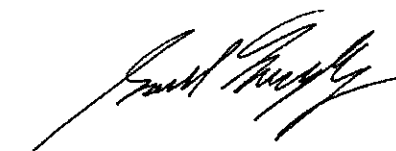
SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Centre (Beach Lagoon)	Beach Area	Pumped Outlet Lagoon	
			Sample I.D.	B14-24702-2	B14-24702-1	B14-24702-3	
			Date Collected				
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Total Suspended Solids	mg/L	3	SM 2540D	24-Sep-14/O	16		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-14/O	21	57	
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Sep-14/O	186	9	
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Sep-14/O	573	327	
pH @25°C	pH Units		SM 4500H	24-Sep-14/O	7.28	6.88	
Nitrite (N)	mg/L	0.1	SM4110C	24-Sep-14/O	0.3	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	24-Sep-14/O	0.3	0.1	
Chloride	mg/L	0.5	SM4110C	24-Sep-14/O	49.0	62.5	
Sulphate	mg/L	1	SM4110C	24-Sep-14/O	4	43	
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Sep-14/O	42.8	5.9	
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	25-Sep-14/O	34.0	31.8	
Phenolics	mg/L	0.001	MOEE 3179	24-Sep-14/O	0.002	0.009	
Aluminum (total)	mg/L	0.01	SM 3120	24-Sep-14/O	0.12	0.06	
Arsenic	mg/L	0.0005	EPA 200.8	24-Sep-14/O	0.0007	< 0.0005	
Calcium	mg/L	0.02	SM 3120	24-Sep-14/O	3.99	10.4	
Cadmium	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	
Cobalt	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	24-Sep-14/O	0.061	< 0.002	
Chromium	mg/L	0.002	SM 3120	24-Sep-14/O	< 0.002	< 0.002	
Iron (Total)	mg/L	0.005	SM 3120	24-Sep-14/O	0.545	0.028	
Lead	mg/L	0.02	SM 3120	24-Sep-14/O	< 0.02	< 0.02	
Magnesium	mg/L	0.01	SM 3120	24-Sep-14/O	2.71	7.68	
Manganese (Total)	mg/L	0.001	SM 3120	24-Sep-14/O	0.026	0.002	
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-14/O	0.00003	< 0.00002	
Nickel	mg/L	0.01	SM 3120	24-Sep-14/O	< 0.01	< 0.01	
Potassium	mg/L	0.1	SM 3120	24-Sep-14/O	12.4	2.4	

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Gord Murphy
Lab Supervisor

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C.O.C.: ---

REPORT No. B14-24702

Report To:

Hamlet of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada

Attention: John Ivey

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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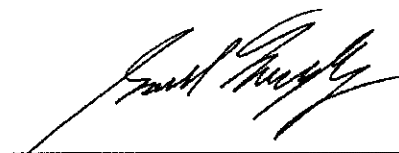
DATE REPORTED: 30-Sep-14

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Centre (Beach Lagoon)	Beach Area	Pumped Outlet Lagoon	
			Sample I.D.	B14-24702-2	B14-24702-1	B14-24702-3	
			Date Collected				
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Sodium	mg/L	0.2	SM 3120	24-Sep-14/O	36.4	33.0	
Zinc	mg/L	0.005	SM 3120	24-Sep-14/O	0.032	< 0.005	
Oil & Grease-Total	mg/L	1.0	SM 5520	29-Sep-14/K		< 1.0	10.5
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-14/O	170	< 10	



M.D.L. = Method Detection Limit
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Gord Murphy
Lab Supervisor

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C.O.C.: DW 60105

REPORT No. B14-24703

Report To:

Hamlet of Clyde River
Box 89,
Clyde River Nunavut X0A 0E0 Canada

Attention: John Ivey

Caduceon Environmental Laboratories

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Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Sep-14

JOB/PROJECT NO.:

DATE REPORTED: 30-Sep-14


P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Water Lake - Sept. 10, 2014	Water Lake - Sept. 16, 2014	Water Lake - Sept. 19, 2014	
			Sample I.D.	B14-24703-1	B14-24703-2	B14-24703-3	
			Date Collected	10-Sep-14	16-Sep-14	19-Sep-14	
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
TDS (Calc. from Cond.)	mg/L		Calc.	30-Sep-14	25.9	25.9	25.9
Fluoride	mg/L	0.1	SM4110C	24-Sep-14/O	< 0.1	< 0.1	< 0.1
Chloride	mg/L	0.5	SM4110C	24-Sep-14/O	6.3	6.4	6.4
Nitrate (N)	mg/L	0.1	SM4110C	24-Sep-14/O	< 0.1	< 0.1	< 0.1
Sulphate	mg/L	1	SM4110C	24-Sep-14/O	3	4	3
Phenolics	mg/L	0.001	MOEE 3179	24-Sep-14/O	< 0.001	< 0.001	< 0.001
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	24-Sep-14/O	2.5	2.5	2.3
Arsenic	mg/L	0.0001	EPA 200.8	24-Sep-14/O	< 0.0001	< 0.0001	< 0.0001
Barium	mg/L	0.001	SM 3120	24-Sep-14/O	0.002	0.002	0.002
Cadmium	mg/L	0.00002	EPA 200.8	24-Sep-14/O	< 0.00002	< 0.00002	< 0.00002
Chromium	mg/L	0.002	SM 3120	24-Sep-14/O	< 0.002	< 0.002	< 0.002
Chromium (VI)	mg/L	0.01	MOEE 3056	24-Sep-14/O	< 0.01	< 0.01	< 0.01
Iron	mg/L	0.005	SM 3120	24-Sep-14/O	0.030	0.044	0.032
Lead	mg/L	0.00002	EPA 200.8	24-Sep-14/O	< 0.00002	0.00002	0.00003
Manganese	mg/L	0.001	SM 3120	24-Sep-14/O	0.001	0.002	0.001
Selenium	mg/L	0.001	EPA 200.8	24-Sep-14/O	< 0.001	< 0.001	< 0.001
Silver	mg/L	0.00002	EPA 200.8	24-Sep-14/O	< 0.00002	< 0.00002	< 0.00002
Zinc	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005	< 0.005	< 0.005

1. Chromium (VI) result is based on total chromium



M.D.L. = Method Detection Limit
Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Gord Murphy
Lab Supervisor

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