

RECEIVED
APR 15 2014



Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
140103

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Eva Colin

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Angelique Ruzindana'. The signature is written in a cursive style.

Angelique Ruzindana
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) as a testing laboratory for specific tests registered with CALA.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
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Taiga Environmental Laboratory

4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No:
140103

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-3

Taiga Sample ID: 001

Client Project:

Sample Type:

Received Date: 19-Mar-14

Sampling Date: 19-Mar-14

Sampling Time: 9:00

Location: 1696-3

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.232	0.005	mg/L	07-Apr-14	SM4500-NH3:	
Biochemical Oxygen Demand	8	2	mg/L	20-Mar-14	SM5210:B	
CBOD	3	2	mg/L	20-Mar-14	SM5210:B	
Nitrogen, Total	1.19	0.06	mg/L	25-Mar-14	ISO/TR 11905	
<u>Inorganics - Physicals</u>						
pH	7.11		pH units	19-Mar-14	SM4500-H:B	
Solids, Total Suspended	6	3	mg/L	20-Mar-14	SM2540:D	
<u>Microbiology</u>						
Coliforms, Fecal	34	1	CFU/100mL	19-Mar-14	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	24-Mar-14	EPA1664A	

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Taiga Environmental Laboratory
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Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
140103

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-5

Taiga Sample ID: 002

Client Project:
Sample Type:
Received Date: 19-Mar-14
Sampling Date: 19-Mar-14
Sampling Time: 9:00
Location: 1696-5
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	1.18	0.005	mg/L	07-Apr-14	SM4500-NH3:	
Biochemical Oxygen Demand	2	2	mg/L	20-Mar-14	SM5210:B	
CBOD	< 2	2	mg/L	20-Mar-14	SM5210:B	
Nitrogen, Total	2.59	0.06	mg/L	26-Mar-14	ISO/TR 11905	
<u>Inorganics - Physicals</u>						
pH	6.86		pH units	19-Mar-14	SM4500-H:B	
Solids, Total Suspended	4	3	mg/L	20-Mar-14	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	21-Mar-14	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	< 1	1	CFU/100mL	19-Mar-14	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	24-Mar-14	EPA1664A	
<u>Subcontracted Organics</u>						
Phenols, Total	< 0.002	0.002	mg/L	25-Mar-14	APHA 5530D	
<u>Trace Metals</u>						

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Taiga Batch No.:
140103

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-5

Taiga Sample ID: 002

Cadmium	< 0.10	0.1	µg/L	09-Apr-14	EPA200.8
Chromium	1.5	0.1	µg/L	09-Apr-14	EPA200.8
Cobalt	1.2	0.1	µg/L	09-Apr-14	EPA200.8
Copper	1.7	0.2	µg/L	09-Apr-14	EPA200.8
Iron	4090	5	µg/L	09-Apr-14	EPA200.8
Lead	0.2	0.1	µg/L	09-Apr-14	EPA200.8
Manganese	306	0.1	µg/L	09-Apr-14	EPA200.8
Mercury	0.02	0.01	µg/L	09-Apr-14	EPA200.8
Zinc	11.5	5	µg/L	09-Apr-14	EPA200.8

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Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
140103

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-5

Taiga Sample ID: 002

*** Taiga analytical methods are based on the following standard analytical methods**
SM - Standard Methods for the Examination of Water and Wastewater
EPA - United States Environmental Protection Agency

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Print Date: *Friday, April 11, 2014*

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Eva Colin

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

Angelique Ruzindana
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-5

Taiga Sample ID: 001

Client Project: GO3L3-001
Sample Type: Wastewater
Received Date: 30-Jul-14
Sampling Date: 30-Jul-14
Sampling Time: 9:05
Location: 1696-5
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.183	0.005	mg/L	07-Aug-14	SM4500-NH3:	
Biochemical Oxygen Demand	3	2	mg/L	31-Jul-14	SM5210:B	
CBOD	5	2	mg/L	31-Jul-14	SM5210:B	
Nitrogen, Total	0.99	0.06	mg/L	01-Aug-14	ISO/TR 11905:	
<u>Inorganics - Physicals</u>						
pH	7.36		pH units	31-Jul-14	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	07-Aug-14	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.12	0.01	mg/L	01-Aug-14	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	10	10	CFU/100mL	31-Jul-14	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	31-Jul-14	EPA1664A	
<u>Subcontracted Organics</u>						
Phenols, Total	0.0074	0.001	mg/L	19-Aug-14	AB ENV.06537	

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Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-5

Taiga Sample ID: 001

Trace Metals

Cadmium	< 0.10	0.1	µg/L	08-Aug-14	EPA200.8
Chromium	0.4	0.1	µg/L	08-Aug-14	EPA200.8
Cobalt	0.3	0.1	µg/L	08-Aug-14	EPA200.8
Copper	2.0	0.2	µg/L	08-Aug-14	EPA200.8
Iron	1740	5	µg/L	08-Aug-14	EPA200.8
Lead	0.3	0.1	µg/L	08-Aug-14	EPA200.8
Manganese	51.9	0.1	µg/L	08-Aug-14	EPA200.8
Mercury	< 0.01	0.01	µg/L	08-Aug-14	EPA200.8
Nickel	3.4	0.1	µg/L	08-Aug-14	EPA200.8
Zinc	< 5.0	5	µg/L	08-Aug-14	EPA200.8

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-6

Taiga Sample ID: 002

Client Project: GO3L3-001
Sample Type: Wastewater
Received Date: 30-Jul-14
Sampling Date: 30-Jul-14
Sampling Time: 9:05
Location: 1696-6
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.008	0.005	mg/L	07-Aug-14	SM4500-NH3:	
Biochemical Oxygen Demand	3	2	mg/L	31-Jul-14	SM5210:B	
CBOD	4	2	mg/L	31-Jul-14	SM5210:B	
Nitrogen, Total	0.47	0.06	mg/L	01-Aug-14	ISO/TR 11905:	
<u>Inorganics - Physicals</u>						
pH	7.79		pH units	31-Jul-14	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	18-Aug-14	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.08	0.01	mg/L	01-Aug-14	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	60	10	CFU/100mL	31-Jul-14	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	< 2.0	2.0	mg/L	31-Jul-14	EPA1664A	
<u>Subcontracted Organics</u>						
Phenols, Total	0.0049	0.001	mg/L	19-Aug-14	AB ENV.06537	
<u>Trace Metals</u>						

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4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-6

Taiga Sample ID: 002

Cadmium	< 0.10	0.1	µg/L	08-Aug-14	EPA200.8
Chromium	0.3	0.1	µg/L	08-Aug-14	EPA200.8
Cobalt	0.1	0.1	µg/L	08-Aug-14	EPA200.8
Copper	1.5	0.2	µg/L	08-Aug-14	EPA200.8
Iron	634	5	µg/L	08-Aug-14	EPA200.8
Lead	0.1	0.1	µg/L	08-Aug-14	EPA200.8
Manganese	33.9	0.1	µg/L	08-Aug-14	EPA200.8
Mercury	< 0.01	0.01	µg/L	08-Aug-14	EPA200.8
Nickel	6.2	0.1	µg/L	08-Aug-14	EPA200.8
Zinc	7.3	5	µg/L	08-Aug-14	EPA200.8

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Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140604

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-6

Taiga Sample ID: 002

* Taiga analytical methods are based on the following standard analytical methods
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EPA - United States Environmental Protection Agency

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140824

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Ernie Firth

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

Judy Mah
Client Service Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) to ISO/IEC 17025 as a testing laboratory for specific tests registered with CALA.
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Report Date: Wednesday, October 01, 2014

Print Date: Wednesday, October 01, 2014

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140824

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

Client Project: GO3L3-001
Sample Type: Sewage
Received Date: 16-Sep-14
Sampling Date: 16-Sep-14
Sampling Time: 9:00
Location: 1696-2
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Microbiology</u>						
Coliforms, Fecal	86000	1000	CFU/100mL	17-Sep-14	SM9222:D	

Report Date: Wednesday, October 01, 2014
Print Date: Wednesday, October 01, 2014

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-669-2718

Taiga Batch No.:
140824

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

- * Taiga analytical methods are based on the following standard analytical methods
- SM - Standard Methods for the Examination of Water and Wastewater
- EPA - United States Environmental Protection Agency

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:

140938

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Ernie Firth

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

A handwritten signature in black ink, appearing to read 'Judy Mah'.

Judy Mah
Client Service Officer

NOTES:

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ReportDate: Saturday, October 25, 2014

Print Date: Saturday, October 25, 2014

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No:
140938

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

Client Project: GO3L3-001
Sample Type: Sewage
Received Date: 15-Oct-14
Sampling Date: 15-Oct-14
Sampling Time: 9:00
Location: 1696-2
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	41.7	0.005	mg/L	17-Oct-14	SM4500-NH3:G	
Biochemical Oxygen Demand	124	2	mg/L	16-Oct-14	SM5210:B	
CBOD	56	2	mg/L	16-Oct-14	SM5210:B	81
Nitrogen, Total	55.4	0.06	mg/L	17-Oct-14	ISO/TR 11905:1997(E)	
<u>Inorganics - Physicals</u>						
pH	7.41		pH units	16-Oct-14	SM4500-H:B	
Solids, Total Suspended	86	3	mg/L	16-Oct-14	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.27	0.01	mg/L	17-Oct-14	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal	110000	10000	CFU/100mL	15-Oct-14	SM9222:D	
<u>Organics</u>						
Hexane Extractable Material	19.2	2.0	mg/L	20-Oct-14	EPA1664A	

ReportDate: Saturday, October 25, 2014

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Taiga Environmental Laboratory
4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140938

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

- DATA QUALIFIERS -

Data Qualifier Descriptions:

81 *Results are inconclusive due to insufficient depletion of sample, minimum 2 mg/L required over 5 days.*

*** Taiga analytical methods are based on the following standard analytical methods**
SM - Standard Methods for the Examination of Water and Wastewater
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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT, X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140963

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Ernie Firth

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

Judy Mah
Client Service Officer

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140963

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

Client Project: GO3L3-001

Sample Type: Sewage

Received Date: 23-Oct-14

Sampling Date: 23-Oct-14

Sampling Time: 9:04

Location: 1696-2

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Biochemical Oxygen Demand	133	2	mg/L	23-Oct-14	SM5210:B	
CBOD	129	2	mg/L	23-Oct-14	SM5210:B	
<u>Microbiology</u>						
Coliforms, Fecal	70000	10000	CFU/100mL	23-Oct-14	SM9222:D	

ReportDate: Friday, October 31, 2014

Print Date: Friday, October 31, 2014

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4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9
Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140963

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

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EPA - United States Environmental Protection Agency

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140959

- FINAL REPORT -

Prepared For: Hamlet of Fort McPherson

Address: P.O. Box 57
Fort McPherson, NT
X0E 0J0

Attn: Ernie Firth

Facsimile: (867) 952-2725

Final report has been reviewed and approved by:

Judy Mah
Client Service Officer

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Taiga Environmental Laboratory

4601-52nd Ave., Box 1320, Yellowknife, NT. X1A 2L9

Tel: (867)-765-6645 Fax: (867)-873-2652

Taiga Batch No.:
140959

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

Client Project: GO3L3-001

Sample Type: Sewage

Received Date: 23-Oct-14

Sampling Date: 21-Oct-14

Sampling Time: 9:00

Location: 1696-2

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	44.4	0.005	mg/L	04-Nov-14	SM4500-NH3:G	
Biochemical Oxygen Demand		2	mg/L		SM5210:B	105
CBOD		2	mg/L		SM5210:B	105
Nitrogen, Total	56.3	0.06	mg/L	27-Oct-14	ISO/TR 11905:1997(E)	
<u>Inorganics - Physicals</u>						
pH	7.35		pH units	23-Oct-14	SM4500-H:B	
Solids, Total Suspended	90	3	mg/L	27-Oct-14	SM2540:D	
<u>Major Ions</u>						
Nitrate+Nitrite as Nitrogen	0.17	0.01	mg/L	23-Oct-14	SM4110:B	
<u>Microbiology</u>						
Coliforms, Fecal		1	CFU/100mL		SM9222:D	105
<u>Organics</u>						
Hexane Extractable Material	18.2	2.0	mg/L	05-Nov-14	EPA1664A	

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Taiga Batch No.:
140959

- CERTIFICATE OF ANALYSIS -

Client Sample ID: 1696-2

Taiga Sample ID: 001

- DATA QUALIFIERS -

Data Qualifier Descriptions:

105 *Samples received past hold time; analysis not possible.*

*** Taiga analytical methods are based on the following standard analytical methods**

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

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