

MINUTES OF MEETING

Vermilion River Stewardship

Wednesday, 14 June 2017

7:00 pm – 9:00 pm

Beaver Lake Sports & Cultural Club, 55 Club Road, Worthington, ON

Linda Heron, Terry Little, Ron Basso, Sheri Purdon, Marc Samson, John Reid, Byron Basso, Lesley Flowers, Marte Holouka, Margaret LaFramboise, Special COGS Guests Nick Benkovitch and Dave Brouse

1. Adoption of Agenda

Moved by Lesley Flowers to adopt the Agenda

Seconded by Ron Basso

Carried

2. Keynote Speakers – City of Sudbury Water/Wastewater Updates

Nick Benkovitch and Dave Brouse

- The plan to mitigate bypass events by eliminating rain and ground water inputs into the sanitary drainage system is initially targeting Lively and Azilda.
- Older sanitary drainage lines are being lined with epoxy to prevent groundwater infiltration.
- All homeowners are being contacted (door to door) and informed of the Bylaw that makes it illegal to connect roof and weeping tile drainage to the sanitary drainage system which was the practice in older homes.
- The COGS is offering to pay half the cost (up to \$1000) of putting in a sump pump and sewage back flow preventer.
- After the door to door is complete this summer homeowners that are not in compliance will be given a deadline to achieve compliance or face a court appearance, fine, and order to comply. The \$1000 incentive will still be offered.
- The city has budgeted ~\$500K per year for this initiative
- \$25M is budgeted for water main maintenance; however, double this amount is needed to maintain the system in the future
- A lively question period ensued where it came to light that Dave has been in touch with realtors and home inspectors who are encouraged to check homes for compliance regarding this issue.
- Linda thanked Nick and Dave for coming out on their own time to give the presentation.

3. Adoption of Minutes of Meeting: 12 April 2017

Moved by Marc Samson to adopt the Minutes of Meeting

Seconded by Byron Basso

Carried

4. Reports

- **Executive** – Linda (Addendum 1)
Motion to accept the Executive Report by Marc Samson
Seconded by Byron Basso **Carried**
- **Finance** – Terry (Addendum 2)
 - Balance is \$2350.49
 - *\$500 of that balance is set aside for sediment core study on Simon Lake - Watershed Advisory Panel grant*Motion to accept the Finance Report by Marc Samson

5. Old Business

- **Lower Vermilion Source Water Monitoring Project - Linda**
 - Committee is meeting weekly to review data and come up with next steps
 - Have another volunteer with experience in Excel and water quality data working on charts for presentations
 - Two meetings have looked at data to identify problem areas
 - 29 May and 5 June 2017 Meeting Notes – Addendums 3 & 4
- **Vermilion River Access/Road Issues – John Reid**
 - A 14.5m access to the lake is recorded on a survey
 - Road allowances are typically 6.5m with a 1m ditch allowance which does not leave room for parking
- **2017 River Cleanup – Linda**
 - Basso family was thanked for their contributions to the event
 - Linda will send letters of thanks to the Basso family and the Whitefish Lion's Club

6. New Business

- **Spanish and Vermilion River Water Management Plan**
 - WMP will be placed on the Environmental Registry shortly
 - Not likely to be an opportunity to comment

8. Next Meeting – October 14th, 2017

Addendum 1
Vermilion River Stewardship
EXECUTIVE REPORT
14 June 2017

Report from Chair

Meetings:

- 15 November 2016 – Pembina Institute Webinar on Canada’s Clean Energy Transition
- 24 November 2016 – GSWA General Meeting
- 30 November 2016 – Stormwater Assessment Tool – Webinar
- 6 December 2016 – Great Lakes Protection Act Alliance - Online Meeting
- 9 January 2017 – GSWA General Meeting
- 22 February 2017 – Great Lakes Protection Act Alliance – Online Meeting
- 22 February 2017 – How to Manage a Scattered Nonprofit Team – Online Webinar
- 8 March 2017 – VRS Annual General Meeting
- 13 March 2017 – GSWA Special Meeting of the Board
- 15 March 2017 – Great Lakes Protection Act Alliance – Online Meeting
- 20 March 2017 – GSWA Annual General Meeting
- 29 March 2017 – GSWA Board Meeting
- 5 April 2017 – ORA Board Meeting – Online Meeting
- 11 April 2017 – Milfoil Madness – Information Event at Lockerby Legion Hall
- 19 April 2017 – Michael Vagnini and Tom Price – multiple issues
- 1 May 2017 – GSWA Board Meeting
- 11 May 2017 – GSWA – met with photographer to collect photos
- 16 & 17 May 2017 – People’s Great Lakes Summit – Toronto
- 24 May 2017 – Brad Bowman – Lower Vermilion Water Quality Data
- 27 May 2017 – 3rd Annual Vermilion River Clean-up
- 29 May 2017 – Strategic Planning Committee Meeting
- 5 June 2017 – Strategic Planning Committee Meeting
- 9 June 2017 – City of Sudbury – Website Development Survey
- 13 June 2017 – Green Gathering – rethink Green

Presentation:

- 24 November 2016 – Presentation to Indigenous Studies, University of Sudbury

Correspondence:

- 16 December 2016 – [EBR 012-8840 – Long Term Energy Plan](#)
- 23 December 2016 – [Expert Panel Review on the Environmental Assessment Process](#)
- 5 May 2017 – [EA Review Recommendations](#)

Linda Heron
Chair

Vermilion River Stewardship				
Income - Expenses - Budget				
	Dec 31 2016	2016 Budget	Dec 31 2017	2017 Budget
Revenue				
Contributions	0.00	0.00	150.00	0.00
Membership Dues	500.00	800.00	400.00	800.00
Grants - Other	248.97	0.00	125.00	0.00
Project income	0.00	0.00	0.00	0.00
Fundraising	0.00	0.00	0.00	0.00
Interest	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00
Sub-Total	748.97	800.00	675.00	800.00
Project Income				
2012 - December				
2013 - June	0.00	0.00	0.00	0.00
2013 - December	0.00	0.00	0.00	0.00
2014 - June	0.00	0.00	0.00	0.00
KGHM International - Donation	0.00	0.00	0.00	0.00
Total Grant Proceeds	0.00	0.00	0.00	0.00
Total Revenue	748.97	800.00	675.00	800.00
Operating Expenses				
Office	30.00	100.00	12.50	100.00
Website	192.90	160.00	177.47	200.00
Honorarium	0.00	0.00	0.00	0.00
Membership Fees	220.00	120.00	120.00	120.00
Meeting Expenses	0.00	250.00	180.80	250.00
Miscellaneous	248.97	500.00	0.00	500.00
Total Operating	691.87	1,130.00	490.77	1,170.00
Project expenses				
Labs - Sampling	11,121.00	16,000.00	0.00	0.00
Conservation Sudbury - Technicians	9,226.00	5,691.00	0.00	0.00
Travel Expenses	9,214.00	5,670.00	0.00	0.00
Operating Expenses	1,998.00	2,350.00	0.00	0.00
Equipment	0.00	2,000.00	0.00	0.00
Total Project Expenses	31,559.00	31,711.00	0.00	0.00
Total Expenses	32,250.87		490.77	
Current period Surplus/Deficit	(31,501.90)		184.23	
Previous period Surplus/Deficit	33,668.16		2,166.26	
Actual Project Deficit/Surplus	\$152.24		\$152.24	
Actual VRS Deficit/Surplus	\$2,014.02		\$2,198.25	
Surplus/Deficit	2,166.26		2,350.49	

Addendum 3

Meeting Notes

Strategic Planning Committee
Monday, 29 May 2017 – 10:00 am to 12:00 pm
Penage Community Centre

PRESENT: Linda Heron, Sheri Purdon, Lesley Flowers, Al Stanley
REGRETS: Dale Kilbey

Next Steps

- Consider micro project/s to further examine areas of concern
 - Ella Lake
 - Wabagishik
 - Copper Cliff
 - Grassy, etc.
- Look for point source inputs
 - heavy metals
 - nutrients
 - salt and chloride
 - E-coli
- Examine all charts one by one
- No presentations or meetings with industry or government until we have reviewed all the data and come up with a short-term and long-term plan
- Carrie has a full-time job now and can no longer help us with creating charts
 - Carrie had no time to complete another set of charts that included all the missing data
 - Linda will speak to Anoop and Living with Lakes Centre to see if we can find someone else to help us create simple charts using all available data
- Committee will meet every Monday from 10 to 12:00 pm
- Next meeting: Monday, 5 June 2017, 10:00 pm, Penage Community Centre

Addendum 4

Meeting Notes

Strategic Planning Committee
Monday, 5 June 2017 – 10:00 am to 12:00 pm
Penage Community Centre

PRESENT: Linda Heron, Sheri Purdon, Lesley Flowers, Al Stanley
REGRETS: Dale Kilbey

The Committee went through a close review of the charts to establish areas of concern. Areas of highest concern are if exceedances persist over all three years at a particular site, or series of downstream sites.

Alkalinity, total:

- No concern

Aluminum, total:

- Toxicity is controversial
- Baseline is already elevated
- LIL-11, CC-12, MB-14, FB-20 and GRA-23
- Needs further analysis

Antimony, total:

- No concern – far below PWQO & ODWQS

Arsenic, total:

- Can lead to arsenic poisoning
- No concern – far below PWQO, ODWQS & CWQG

Barium, total:

- No concern – far below ODWQS

Beryllium, total:

- Can lead to Beryllium poisoning
- No concern – far below PWQO

Bismuth, total:

- No concern – no limits

Boron, total:

- No concern – far below PWQO, ODWQS & CWQG

Bromide, dissolved:

- No concern – no limits – negligible readings

Cadmium, total:

- Can lead to cadmium poisoning
- JUN-13 exceeds PWQO, ODWQS & CWQG
- WIT 7 & WIT 8
- Needs further analysis

Calcium, dissolved:

- Highest at CC-12
- Possible liming?

Carbon, dissolved inorganic:

- WIT-7 & WIT-8

Chloride, dissolved:

- CC-12
- Occurring in summer months
- Possible dust and ice suppression??

- Also LIL-11, downstream of Ramsey Lake
- Needs further analysis

Chlorophyl-a:

- JUN-13 to MC-18 elevated
- Increasing at MC-17 – trailer park, dump??
- MOECC test sites
- Needs further analysis

Chromium, total:

- No exceedances – PWQO & ODWQS
- Highest at JUN-13

Cobalt, total:

- Is highly toxic and can lead to cobalt poisoning.
- Exceeds PWQO at CC-12, JUN-13, MB-14, MUD-15, SIM-16, MC-17, MC-18 & GR-23 in 2014-15
- Needs further analysis

Conductivity:

- No limits
- Why no readings at JUN-13, when next Conductivity Chart does show readings at this site?
- Dissolved ions – mineralization – total solids
 - Highest at CC-12, JUN-13, MUD-15, SIM-16, MC-17, MC-18

Copper, total:

- Can lead to copper toxicity.
- Exceeds at CWQG and PWQO at CC-12, JUN-13, MB-14, MUD-15, SIM-16, MC-17, MC-18 – worst in 2013
- Issue with liming program?
- Needs to get better at processing

Dissolved Oxygen:

- Some data missing on charts because missing data has not been included in these charts

Escherichia coli:

- Data is not flagging anything critical
- The anomaly in August of 2014 is making the many other exceedances on the chart look less important – need to remove anomaly to properly see exceedances
- Needs further analysis

Flouride:

- Exceeds CWQG at CC-12, MUD-15, SIM-16, MC-17, MC-18
- Needs further analysis

Hardness:

- No limits
- Highest at CC-12, JUN-13, MUD-15, SIM-16, MC-17, MC-18

Iron, total:

- Iron toxicity is not known to be caused from mining
- Why is MB-14 so elevated in all 3 years?
- Exceeds CWQG and PWQO WIT-7, WIT-8, CC-12, MB-14, FB-20, GRA-23
- FB-20 elevated – Mining operating at Crane Hill, Totten?
- Iron is naturally high in the area
- Needs further analysis

Lead, total:

- Can lead to lead poisoning
- Spike at VER-2 in 2013 and GRA-23 in 2015, WAB-27 in 2014.
- Needs further analysis

Lithium, total:

- Can lead to Lithium toxicity
- No limits
- Highest at CC-12, JUN-13, MUD-15, SIM-16, MC-17 and MC-18.
- Tailings carry-over?

Magnesium, dissolved:

- Liming program, tailings and Industrial Park?
- No limits
- Highest at CC-12, MB-14, MUD-15, SIM-16, MC-17, MC-18

Magnesium, total:

- No limits
- Highest at CC-12, JUN-13, MB-14, MUD-15, SIM-16, MC-17, MC-18

Manganese, total:

- Can lead to Manganese poisoning.
- No limits
- Highest in September at MC-18 in 2013, and LIL-11 in Aug of 2015
- Aesthetic objective??

Mercury, total:

- Can lead to Mercury poisoning
- No exceedances – good
- CWQS, PWQO and ODWQS.

Molybdenum, total:

- No exceedances of PWQO or CWQS, somewhat elevated at JUN-13

Nickel, total:

- Can lead to Nickel toxicity.
- PWQO and CWQS varies according to hardness
- Exceeds at LEV-9, LIL-11, CC-12, JUN-13, MB-14, MUD-15, SIM-16, MC-17, MC-18, MC-19 and GRA-23
- Steps up at JUN-13
- ONP-4 elevated – control issue with mining
- Runoff from rain?
- At Vale property limit – could be better controlled to meet PWQO
- Historical legacy from Kelly Lake

Nitrogen, ammonia and ammonium:

- JUN-13 elevated in all 3 years
- By-product of sewage – legacy challenge
- Dredge Kelly Lake?

Nitrogen, nitrite:

- Elevated after CC-12 and GRA-23

Nitrogen, nitrate and nitrite

- Elevated after CC-12 to MC-18, and GRA-23 in 2013

Nitrogen, nitrite:

- Exceeds CWQG at JUN-13, MUD-15, SIM-16, MC-17

Nitrogen, total:

- No limit
- WIT-7, WIT-8, JUN-13

Nitrogen, TKN:

- No limit
- VER-10 off the charts - anomaly
- CC-12 and JUN-13 highest
- Also present in rotting vegetation
- Sewage at CC-12?

- Vale has to report to the province – legislated

pH, field:

- CWQG and PWQO exceeded at ONP-3, WIT-8, LEV-9, VER-10, LIL-11, CC-12
- Process related
- Has an impact on oxygen and growth
- For comparison purposes – historic
- Needs further analysis

Phosphorus, total:

- Exceeds PWQO at ONP-4, WIT-7, WIT-8, JUN-13, MB-14, MUD-15, SIM-16, MC-17, MC-18, GR-23 in 2015
- Phosphorus loading from sediment, stormwater – complex
- Needs further analysis

Potassium, total:

- CC-12, JUN-13, MUD-15, SIM-16, MC-17, MC-18
- Persists

Selenium, total:

- Exceeds ODWQS and CWQG at CC-12, but not PWQO
- (Copper Refinery)

Next Meeting: 19 June 2017, when we will continue analysing the data.