

Electronic links to all of the following resources can be found at the Flint River GREEN website under the Links tab:

<http://www.flintrivergreen.org/links/>

Topic	Type of Resource	Title	Website
Flint River GREEN	Watershed Resources	Flint River Watershed Coalition	http://flinriver.org/blog/
Flint River GREEN	Project Resources and Data Portal	Flint River GREEN	http://www.flintrivergreen.org/
Flint, MI	Case Study	Flint Drinking Water Crisis	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5353852/
Water Quality	Background Information	USGS Water Science School - General	https://water.usgs.gov/edu/waterquality.html
Temperature	Background Information	USGS Water Science School - Temperature	https://water.usgs.gov/edu/temperature.html
Temperature	Government Document	List of Michigan's Coldwater Streams	http://www.michigandnr.com/law/law_book/orders/Fisheries%20Orders.html#FO210
Temperature	Case Study	Thermal Pollution in Rivers—Will Adding Gravel Help Cool Them Down?	https://www.fs.fed.us/pnw/science/scifi133.pdf
Dissolved Oxygen	Background Information	USGS Water Science School - Dissolved Oxygen	https://water.usgs.gov/edu/dissolvedoxygen.html
Dissolved Oxygen	Government Document	List of Michigan's Coldwater Streams:	http://www.michigandnr.com/law/law_book/orders/Fisheries%20Orders.html#FO210
Dissolved Oxygen	Activity (50 min.)	Teaching Great Lakes Science—Sizing up the Lake Erie Dead Zone	http://www.miseagrant.umich.edu/lessons/lessons/by-broad-concept/physical-science/dead-zones/activity-sizing-up-the-lake-erie-dead-zone/
Dissolved Oxygen	Case Study	Tracking Oxygen in Lake Erie's Central Basin	https://ohioseagrant.osu.edu/news/2017/0n38h/tracking-oxygen-lake-erie

Flint River GREEN: Web Resource Links



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Biochemical Oxygen Demand	Activity (50 min.)	Teaching Great Lakes Science— Food Chains and Webs	http://www.miseagrant.umich.edu/lessons/lessons/by-broad-concept/life-science/food-chains-and-webs/
Biochemical Oxygen Demand	Diagrams	NOAA— Great Lakes Food Web Diagrams	https://www.glerl.noaa.gov/res/projects/food_web/food_web.html
Biochemical Oxygen Demand	Video (2 min.)	University of Wyoming Extension— Decomposition	https://youtu.be/GzH_FVgE3C8
Biochemical Oxygen Demand	Video (5 min.)	Chesapeake Bay Program— Plankton	https://www.chesapeakebay.net/discover/ecosystem/plankton
pH	Background Information	USGS Water Science School—pH	https://water.usgs.gov/edu/ph.html
pH	Fact Sheets	EPA National Pollutant Discharge Elimination System—Industrial Stormwater Fact Sheet Series (29 industries)	https://www.epa.gov/npdes/industrial-stormwater-fact-sheet-series
pH	Government Document	NOAA Ocean and Great Lakes Acidification and Research Plan (Great Lakes: pg. 107-118)	https://www.pmel.noaa.gov/co2/files/feel3500_without_budget_rfs.pdf
pH	Article	PBS—Excess Carbon is Making our Freshwater Lakes More Acidic	https://www.pbs.org/newshour/science/fossil-fuels-are-making-freshwater-lakes-more-acidic-at-triple-the-rate-of-oceans
Turbidity	Government Document	Department of Environmental Quality Water Bureau Water Resources Protection Part 4. Water Quality Standards: (See Rule 323.1100; pg. 67—Designated Uses):	http://dmbinternet.state.mi.us/DMB/ORRDocs/Ad-minCode/302_10280_AdminCode.pdf
Turbidity	Article	Heavy Downpours More Intense, Frequent in a Warmer World:	https://www.climate.gov/news-features/featured-images/heavy-downpours-more-intense-frequent-warmer-world
Turbidity	Fact Sheet	US Global Change Research Program— 2014 National Climate Assessment: Midwest Factsheet:	https://www.globalchange.gov/sites/globalchange/files/Regional_MW_2pg_NCA3_final.pdf
Fecal Coliform	Technology Exploration	Wastewater Treatment Online Module: Michigan DEQ/Michigan Tech/Michigan Environmental Education Curriculum:	http://techalive.mtu.edu/meec/module21/title.htm
Fecal Coliform	Case Study	USGS: Fecal-coliform Bacteria Concentrations in Streams of the Chattahoochee River National Recreation Area:	https://pubs.usgs.gov/wri/wri004139/pdf/wrir00-4139.pdf

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Topic	Type of Resource	Title	Website
Fecal Coliform	Instructional Video (8 min.)	Plating Coliscan	https://www.youtube.com/watch?v=g1jj6J-rEI
Fecal Coliform	Instructional Video (8 min.)	Incubating and Counting with Coliscan	https://www.youtube.com/watch?
Fecal Coliform	Instructional Fact Sheet	Key for Counting Easygel Coliscan Colonies	http://www.micrologylabs.com/files/coliscan_easygel_color_guide.pdf
Nitrogen	Video (4 min.)	The Nitrogen Cycle. University of Southern California:	https://www.youtube.com/watch?v=PfqvACMyg68
Nitrogen	Case Study Student Activity (multi-day)	The Dead Zone: Ecology and Oceanography in the Gulf of Mexico. National Center for Case Study Teaching in Science:	http://sciencecases.lib.buffalo.edu/cs/files/dead_zone.pdf
Nitrogen	Government Report	Nitrogen in the Mississippi Basin: Estimating Sources and Predicting Flux to the Gulf of Mexico:	https://pubs.usgs.gov/fs/2000/0135/report.pdf
Nitrogen	Video (8 min.)	Smithsonian - Ecosystems on the Edge: Nutrient Odyssey	https://ecosystemsontheedge.org/nutrient-odyssey/
Phosphorous	Video (2 min.)	EPA-Nutrient Pollution	https://www.epa.gov/nutrientpollution/problem
Phosphorous	Video (6 min.)	Lake Erie Algal Blooms	http://lakeeriealgae.com/
Phosphorous	Fact Sheet	Michigan Sea Grant - Saginaw Bay Muck	http://www.miseagrant.umich.edu/saginawbaymuck/files/2014/07/14-721-Saginaw-Bay-Beach-Muck-rev2.pdf
Phosphorous	Background Information	Michigan Sea Grant - Harmful Algal Blooms in the Great Lakes	http://www.miseagrant.umich.edu/explore/coastal-communities/harmful-algal-blooms-in-the-great-lakes/
Total Solids	Video (7 min.)	Stream to Street: The Effect of Road Salt on our Freshwater Ecosystem	https://www.greatlakesnow.org/2017/03/stream-to-stream-the-effect-of-road-salt-on-our-fresh-water-ecosystem/
Total Solids	Research Paper	Research Paper—Long Term Trends of Great Lakes Ion Chemistry	https://www.researchgate.net/publication/257230709_Long-term_trends_of_Great_Lakes_major_ion_chemistry