

By: Public Works Department
Adopted: January 27, 2014
Vote: Buswell, Harris, O'Barr, Sullivan-Leonard, Wall and Wilson in favor

**City of Wasilla
Resolution Serial No. 14-09**

A resolution of the Wasilla City Council supporting an Alaska Clean Water Actions 2015 Grant proposal to develop plans and cost estimates to reduce the amount of metals and hydrocarbons being discharged into Lake Lucile through the Parks Highway storm water system.

WHEREAS, the State of Alaska is making a solicitation for 2015 grant proposals for clean water actions; and

WHEREAS, the State of Alaska is designating Lake Lucile as a priority water body for this grant program; and

WHEREAS, the Wasilla Soil and Water Conservation District has recognized this as a great opportunity to advance the City's ongoing efforts in protecting and enhancing the water quality of Lake Lucile.

NOW, THEREFORE, BE IT RESOLVED by the Wasilla City Council, that it supports an Alaska Clean Water Actions 2015 Grant proposal to develop plans and cost estimates to reduce the amount of metals and hydrocarbons being discharged into Lake Lucile through the Parks Highway storm water system.

ADOPTED by the Wasilla City Council on January 27, 2014.

ATTEST:



KRISTIE SMITHERS, MMC, City Clerk



VERNE E. RUPRIGHT, Mayor

[SEAL]

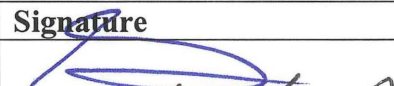



CITY COUNCIL LEGISLATION STAFF REPORT

Resolution Serial No. 14-09: Supporting an Alaska Clean Water Actions 2015 Grant proposal to develop plans and cost estimates to reduce the amount of metals and hydrocarbons being discharged into Lake Lucile through the Parks Highway stormwater system.

Originator: Public Works Director

Date: January 15, 2014

Agenda of: January 27, 2014

Route to:	Department Head	Signature	Date
X	Public Works Director		1/15/14
X	Finance Director		1-14-14
X	Deputy Administrator		1-17-14
X	City Clerk		1/21/14

Reviewed by Mayor Verne E. Rupright: 

Fiscal Impact: no

Account name/number:

Attachments: Grant Solicitation (1 page)

Summary Statement: This resolution supports an Alaska Clean Water Actions 2015 Grant proposal to develop plans and cost estimates to reduce the amount of metals and hydrocarbons being discharged into Lake Lucile through the Parks Highway stormwater system. The State of Alaska recognizes Lake Lucile as a priority water body for the grant program and it is consistent with the City's ongoing efforts in protecting and enhancing the water quality of Lake Lucile.

Recommended Action: Adopt Resolution Serial No. 14-09.

Lake Lucille - Fiscal Year 2015

Description Wasilla, Alaska, lake surface area: 362 acres, shoreline: 4.3 miles

Lat/Long 61.5147000 -149.4714000

Concern: Urbanization

Lake Lucille is in the Waterbody Recovery Track with water quality being a primary concern. In 1994 the Department of Environmental Conservation (DEC) listed Lake Lucille on the Clean Water Act Section 303(d) list as impaired for low dissolved oxygen and nutrients. In 2002, a total maximum daily load (TMDL) was completed. Increased phosphorus loading has led to a reduction in dissolved oxygen. Additionally, there is documented seasonal and localized petroleum water quality standard exceedance from motorized watercraft recreational uses of the lake near the public boat launch.

Lake Lucille is a receiving water for the Department of Transportation (DOT) and City of Wasilla's stormwater drainage system. There are two active stormwater discharge outfalls into Lake Lucille along the north shore. One is in the east end of the lake and the other in the west end. Stormwater quality studies conducted by DEC in 2011 - 2013 indicate metals (copper, lead and zinc) and polycyclic aromatic hydrocarbons (PAH) pollution in the lake bed sediment above recommended levels for aquatic life surrounding both outfall discharge points extending several meters across the lake. The DEC is considering an additional impairment listing for Lake Lucille based on these sampling results.

Goal: Meet water quality standards and remove impairment status

Meet water quality standards for dissolved oxygen and petroleum hydrocarbons in the water column year round. Be able to document recovery of Lake Lucille's water quality and move to Category 2 (attaining uses) for dissolved oxygen.

Additionally, the lake sediments at both stormwater discharge outfalls are above recommended action levels for copper, lead, zinc and PAH. Develop and continue implementing pollution prevention controls within watershed with a focus on reducing the volume and toxicity of stormwater runoff to the lake.

Action a: Develop planning documents

THIS IS A HIGH PRIORITY ACTION. The grantee will develop plans and cost estimates to reduce the amount of metals and PAH being discharged through the two stormwater outfalls into Lake Lucille. The main source for the metals and hydrocarbons in the stormwater is vehicles and oils and grease washed from the Parks Highway, area parking lots and roads that is collected in the stormwater system during times of runoff. The grantee will develop an enforceable long-term plan that addresses stormwater management practices to reduce the amount of stormwater discharged to the lake as well as implement management practices to improve the stormwater quality (e.g., fewer pollutants). To be eligible, this action must demonstrate local government and Department of Transportation support.