

Watershed Protection Department

Internet Resources for Accessing Water Resource Evaluation Section Environmental Data

Rob Clayton
Environmental Resource Management
Robert.Clayton@austintexas.gov



This Presentation is available online until 04/01/2014 @

<https://austintexas.box.com/rc33>



Environmental Data Openness

Water Quality Publications Search

Data.austintexas.gov – Water Quality Sampling Data
– Potential of Open Data

www.austintexas.gov – Find Your Watershed Map



Environmental Data Openness

Water Quality Publications Search

Data.austintexas.gov – Water Quality Sampling Data
– Potential of Open Data

www.austintexas.gov – Find Your Watershed Map

Scientific Reports - Publications - Search

http://austintexas.gov/watershed_protection/publications/default.cfm

-- Enter Keywords and click "Search" button

Departments > Watershed Protection > Services > Publications

Fluoride AND "Aquatic Life"

Year of publication between the first day of and the last day of

Limit to records referencing this Watershed:

Search will be limited to these document types:
✓ Watershed Protection Scientific Reports

Search

Departments > Watershed Protection > Services > Publications > Publications Search Results

Watershed Protection Department Publications Search Results

Found 18 Documents Matching Your Search Criteria:
Keywords (Fluoride AND "Aquatic Life")

Some documents may be very large and require several minutes to download.

Showing 1 to 10 of 18 entries

Name	Size	Subtitle	Watershed:
Annual Report: TPDES Storm Water Permit No. WQ000476/000 (NPDES Permit No. TSS000401)	62 Kb	CM-11-01	Barton Creek more
Barton Springs Pool Preliminary Algae Control Plan for City of Austin	64644 Kb	CI-00-01	Barton Creek
Bull Creek Study Data Report	4196 Kb	DR-07-02	
Comparison of Water Quality Data at Testudo Tube Cave Before and After Construction	177 Kb	SR-09-08	N/A
Diagnostic Study of Water Quality Conditions in Town Lake Austin, Texas Vol 1	165901 Kb	CM-02-01	Lady Bird Lake
Fluoride and Aquatic Environmental Impacts in Austin	149446 Kb	SR-09-05	N/A more
Groundwater Flow And Recharge Within The Edwards Aquifer	88872 Kb	CM-09-04	Barton Creek
Groundwater Tracing Study of the Barton Springs Segment of the Edwards Aquifer	278 Kb	CM-04-06	
Jollyville Plateau Water Quality and Spasmsider Assessment	147907 Kb	CM-01-04	Bull Creek St
NPDES Storm Water Permit Biological Assessment	245 Kb	CM-08-01	Barton Creek more

Showing 1 to 10 of 18 entries

Document Type: Watershed Protection Scientific Reports

Fluoride and aquatic environmental impacts in Austin

prepared by the City of Austin Watershed Protection Department
SR-09-05
October 2009

Abstract

Adverse impacts to aquatic life in Austin streams and rivers from use of fluoride in drinking water treatment are evaluated using relevant effect levels versus measured and predicted instream concentrations. At the present levels of fluoride addition, there does not appear to be a strong potential for adverse aquatic life impacts. However, the fluoridation of drinking water does contribute to fluoride in Austin area streams. Due to the low potential for aquatic life impacts, the scientific evaluation of the need for continued fluoridation should be made on the basis of human health.

Introduction

Fluoride, though ubiquitous and naturally occurring in freshwater systems (ATSDR 1993), has been demonstrated to exert adverse impacts on aquatic life at elevated concentrations. This study compares predicted and measured concentrations of fluoride in Austin's streams and rivers against relevant aqua life effect levels. Mass balance modeling methods have been used to evaluate resulting instream concentrations of fluoride in local and regional scales (Osterman 1990). Health benefits and concerns from human consumption of fluoridated water must be considered separately by human health authority as a separate set of criteria and testing literature would be applicable.

Fluoridated drinking water may enter the aquatic environment primarily via potable water landscape irrigation, leaking drinking water supply infrastructure and through treated wastewater effluent discharge (Osterman 1990). Significant amounts of fluoride can be removed in secondary wastewater treatment processes (Masuda 1964). Fluoride is not expected to concentrate in groundwater, and is likely to be filtered out as water infiltrates through soils (Pescod 1992). Fluoride is not readily leached from soils, and due to low solubility in soils is typically less available to terrestrial plants (WHO 2002).



Environmental Data Openness

Water Quality Publications Search

Data.austintexas.gov – Water Quality Sampling Data

- Potential of Open Data

www.austintexas.gov – Find Your Watershed Map

Data.austintexas.gov Water Quality Sampling Data

<http://data.austintexas.gov/>

[Water-Quality-Sampling-Data](http://data.austintexas.gov/)

Water Quality Sampling Data | Data.austintexas.gov | Open Austin | Internet Explorer

Home Developers Videos www.austintexas.gov Help Sign Up Sign In

data.austintexas.gov

Water Quality Sampling Data
Data collected to assess water quality conditions in the natural creeks, aquifers and lakes in the City of Austin.

WATERSHED SITE_NAME SAMPLE_DATE SITE_TYPE MEDIUM PARAM

1 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Benthic
2 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Benthic
3 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Benthic
4 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Benthic
5 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Grain
6 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
7 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
8 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Grain
9 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
10 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
11 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Benthic
12 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Grain
13 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
14 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Salmon
15 Barton Creek	Barton Spring	11/21/2013 01:50:00 PM	Spring	Benthic Cover	Grain

971027

austintexas.gov

© 2011 City of Austin www.austintexas.gov Powered by Socrata

More Views

Bee Creek Water Quality Data	Last month by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
Mabel Davis Pond Data	Last year by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
CADDISFLIES	2 years ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
Austin Total Maximum Daily Load Process Creek Data	Last year by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
Shoal Creek Data	3 months ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
Barton Springs Nitrate	2 months ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
BARTON AREA SPRINGS NITRATE	2 weeks ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
BARTON AREA SPRINGS NITRATE MG/L AVERAGE PE...	2 weeks ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
BARTON AREA SPRINGS NITRATE AVERAGE MG/L BY ...	6 days ago by WRE_ADMIN	Data collected to assess water quality conditions in the natural creeks.
Find Your Watershed EII Current		

Data.austintexas.gov Water Quality Sampling Data



More Views	
	Bee Creek Water Quality Data Last month by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	Mabel Davis Pond Data Last year by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	CADDISFLIES 2 years ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	Austin Total Maximum Daily Load Process Creek Data Last year by WRE_ADMIN Filter of Water Quality Sampling Data that is specifically associated with
	Shoal Creek Data 3 months ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	Barton Springs Nitrate 2 months ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	BARTON AREA SPRINGS NITRATE 2 weeks ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	BARTON AREA SPRINGS NITRATE MG/L AVERAGE PER... 2 weeks ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	BARTON AREA SPRINGS NITRATE AVERAGE MG/L BY ... 6 days ago by WRE_ADMIN Data collected to assess water quality conditions in the natural creeks.
	Find Your Watershed EIL Current

Data.austintexas.gov Water Quality Sampling Data

More Views

Bee Creek Water Quality Data

Last month by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

Mabel Davis Pond Data

Last year by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

CADDOISFLIES

2 years ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

Austin Total Maximum Daily Load Process Creek Data

Last year by WIRE_ADMIN

Filter of Water Quality Sampling Data that is specifically associated with

Shoal Creek Data

3 months ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

Barton Springs Nitrate

2 months ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE

2 weeks ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE MGIL AVERAGE PE...

2 weeks ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE AVERAGE MGIL BY...

6 days ago by WIRE_ADMIN

Data collected to assess water quality conditions in the natural creeks.

Find Your Watershed_EI_Current

iv

Filtered Data View

BARTON AREA SPRINGS NITRATE

Based on Water Quality Sampling Data

Data collected to assess water quality conditions in the

Manage

More Views

Filter

Find in this Dataset

Export

Download

Alerts

SAMPLE_DATE

SITE_NAME

PARAMETER

1	2013/09/18 01:10:00 PM	Old Mill (Sunken Gardens) Spring	NITRATE/NITRITE	
2	2013/09/18 12:40:00 PM	Barton Spring	NITRATE/NITRITE	
3	2013/09/18 12:05:00 PM	Eliza Spring	NITRATE/NITRITE	35
4	2013/07/25 09:05:00 AM	Barton Spring	NITRATE/NITRITE	422
5	2013/07/11 10:15:00 AM	Barton Spring	NITRATE/NITRITE	428
6	2013/05/23 12:30:00 PM	Old Mill (Sunken Gardens) Spring	NITRATE/NITRITE	183
7	2013/05/23 11:30:00 AM	Eliza Spring	NITRATE/NITRITE	185
8	2013/05/23 10:00:00 AM	Barton Spring	NITRATE/NITRITE	
9	2013/05/09 01:10:00 PM	Barton Spring	NITRATE/NITRITE	
10	2013/03/26 09:15:00 AM	Barton Spring	NITRATE/NITRITE	
11	2013/02/28 02:00:00 PM	Barton Spring	NITRATE/NITRITE	
12	2013/01/24 11:00:00 AM	Barton Spring	NITRATE/NITRITE	
13	2013/01/24 11:00:00 AM	Barton Spring	NITRATE/NITRITE	
14	2012/12/26 11:00:00 AM	Barton Spring	NITRATE/NITRITE	
15	2012/11/27 11:10:00 AM	Old Mill (Sunken Gardens) Spring	NITRATE/NITRITE	
16	2012/11/27 11:00:00 AM	Eliza Spring	NITRATE/NITRITE	
17	2012/11/27 10:40:00 AM	Eliza Spring	NITRATE/NITRITE	
18	2012/11/27 09:40:00 AM	Barton Spring	NITRATE/NITRITE	
19	2012/11/15 09:30:00 AM	Barton Spring	NITRATE/NITRITE	
20	2012/11/01 02:30:00 PM	Barton Spring	NITRATE/NITRITE	
21	2012/10/25 09:10:00 AM	Barton Spring	NITRATE/NITRITE	
22	2012/10/04 09:40:00 AM	Barton Spring	NITRATE/NITRITE	
23	2012/09/24 10:00:00 AM	Barton Spring	NITRATE/NITRITE	
24	2012/09/05 08:40:00 AM	Barton Spring	NITRATE/NITRITE	
25	2012/08/22 01:30:00 PM	Old Mill (Sunken Gardens) Spring	NITRATE/NITRITE	
Totals				

You are in simplified mode. Go advanced now?

SAMPLE_SITE_NO is

PARAMETER is

QUALIFIER is not

QC_FLAG is not

Never created a filter before? Watch a short tutorial video [here](#)

五

BARTON AREA SPRINGS NITRATE AV ...

Based on **Water Quality Sampling Data**
Data collected to assess water quality conditions at the ↓

SITE_NAME	SAMPLE_DATE	RESULT
1 Elza Spring	2013	1.47
2 Old Mill (Sunken Gardens) Spring	2013	0.77365
3 Barton Spring	2013	1.5855555555555556
4 Old Mill (Sunken Gardens) Spring	2012	1.8622222222222222
5 Elza Spring	2012	1.9255555555555556
6 Upper Barton Spring	2012	2.328
7 Barton Spring	2012	1.8922727272727273
8 Elza Spring	2011	1.40125
9 Barton Spring	2011	1.465
10 Old Mill (Sunken Gardens) Spring	2011	0.8874
11 Barton Spring	2010	1.3566666666666666
12 Elza Spring	2010	1.342857142857143
13 Upper Barton Spring	2010	2.04
14 Old Mill (Sunken Gardens) Spring	2010	1.285
15 Barton Spring	2009	1.4223809523809523
16 Elza Spring	2009	1.34
17 Upper Barton Spring	2009	1.82
18 Old Mill (Sunken Gardens) Spring	2009	0.635
19 Old Mill (Sunken Gardens) Spring	2008	1.05
20 Upper Barton Spring	2008	2.18
21 Elza Spring	2008	1.34875
22 Barton Spring	2008	1.4278260869565218
23 Upper Barton Spring	2007	2.0642857142857145
24 Elza Spring	2007	1.166
25 Old Mill (Sunken Gardens) Spring	2007	1.1428571428571428
26 Barton Spring	2007	1.2995652173913043
27 High Barton Spring	2007	1.965

Filter Conditional Formatting Sort & Roll-up Filter

Filter this dataset based on contents.
You are in simplified mode. Go advanced now?

SAMPLE_SITE_NO IS
✓ 35
✓ 422
✓ 428
✓ 183
✓ 185

PARAMETER IS
✓ NITRATE AS N
✓ NITRATE/NITRITE AS N

QUALIFIER is not
✓ R

Never created a filter before? Watch a short tutorial video here.

Data.austintexas.gov Water Quality Sampling Data

Column Chart View

Try

More Views

Views

Sort by Show only

Search views

Bee Creek Water Quality Data

Last month by WRE_ADMIN

Data collected to assess water quality conditions in

Mabel_Davis_Pond_Data

Last year by WRE_ADMIN

Data collected to assess water quality conditions in

CADDISFLIES

2 years ago by WRE_ADMIN

Data collected to assess water quality conditions in

Austin Total Maximum Daily Load P...

Last year by WRE_ADMIN

Filter of Water Quality Sampling Data that is

BARTON AREA SPRINGS NITRATE...

Today by WRE_ADMIN

Data collected to assess water quality conditions in

Barton Area Springs Nitrate Averag...

Today by WRE_ADMIN

Data collected to assess water quality conditions in

CADDISFLIES_BARTON_CREEK_S...

Today by WRE_ADMIN

Data collected to assess water quality conditions in

Mabel_Davis_Pond_Data_Summary

Today by WRE_ADMIN

Data collected to assess water quality conditions in

Shoal Creek Data

BARTON SPRING AVERAGE NITRATE...

Based on Water Quality Sampling Data

Data collected to assess water quality conditions in

Filter

Conditional Formatting

Sort & Roll-Up

Filter

Filter this dataset based on contents.

You are in simplified mode. Go advanced now?

SITE_NAME is

✓ Barton Spring

Never created a filter before? Watch a short tutorial video here

As a publisher of this view, you may define the default set of filters visitors will be presented with.

Edit Default Filter

RESULT

SITE_NAME	SAMPLE_DATE	RESULT
1 Barton Spring	1986	1.3033333333333334
2 Barton Spring	1987	1.85
3 Barton Spring	1989	0.9772727272727273
4 Barton Spring	1990	1.085
5 Barton Spring	1991	0.91
6 Barton Spring	1992	1.0822222222222222
7 Barton Spring	1994	0.91

Data.austintexas.gov Water Quality Sampling Data

More Views

Mabel Davis Pond Data Summary
Today by WRE ADMIN
Data collected to assess water quality conditions in

Shoal Creek Data
3 months ago by WRE ADMIN
Data collected to assess water quality conditions in

Barton Springs Nitrate
2 months ago by WRE ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NITRATE...
Today by WRE ADMIN
Data collected to assess water quality conditions in

CADDISFLIES_BARTON_CREEK
Today by WRE ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NITRATE
2 weeks ago by WRE ADMIN
Data collected to assess water quality conditions in

BARTON SPRING AVERAGE NITRA...
Today by WRE ADMIN
Data collected to assess water quality

Barton Springs Area Nitrate Calend...
Today by WRE ADMIN
Data collected to assess water quality conditions in

CADDISFLIES_BC_BUBBLE_CHART
Today by WRE ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NITRATE...
Today by WRE ADMIN
Data collected to assess water quality conditions in



Calendar View

Ivy

Barton Springs Area Nitrate Cale...
Based on Water Quality Sampling Data
Data collected to assess water quality

February 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
						4
5	6	7	Barton Spring	8	9	10
12	13	14		15	16	17
19	20	21	22	23	24	25

SAMPLE_DATE	SITE_NAME	PARAMETER	QUALIFIER
1 2013/09/18 01:10:00 PH	Old Mill (Sunken Gardens) Spring	NITRATE/NITRITE AS N	
2 2013/09/18 12:40:00 PH	Barton Spring	NITRATE/NITRITE AS N	
3 2013/09/18 12:05:00 PH	Eliza Spring	NITRATE/NITRITE AS N	
4 2013/07/25 09:05:00 AM	Barton Spring	NITRATE/NITRITE AS N	
Totals			

Data.austintexas.gov Water Quality Sampling Data

Donut Chart View

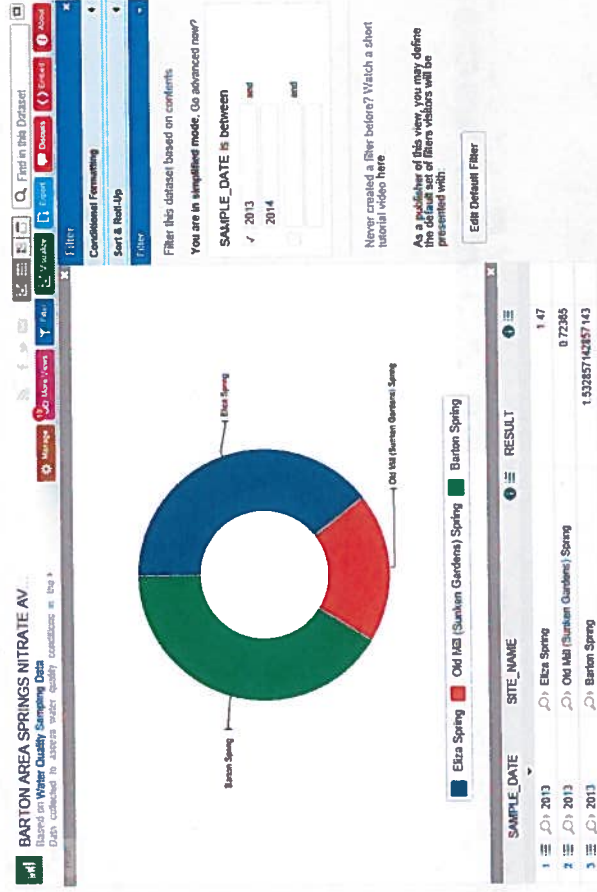
Try

More Views
Views

Sort by Show only

Search reports

-  **Bee Creek Water Quality Data**
Last month by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **Mabel Davis_Pond_Data**
Last year by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **CADDISFLIES**
2 years ago by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **Austin Total Maximum Daily Load Process Creek Data**
Last year by WIRE_ADMIN
Filter of Water Quality Sampling Data that is specifically associated with
-  **BARTON AREA SPRINGS NITRATE AVERAGE 2013 DONUT...**
Today by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **BARTON AREA SPRINGS NITRATE AVERAGE OF YEAR 1990-2010**
Today by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **CADDISFLIES_BARTON_CREEK_SUMRY**
Today by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **Mabel Davis_Pond_Data_Summary**
Today by WIRE_ADMIN
Data collected to assess water quality conditions in the natural creeks, aquifers
-  **Shoal Creek Data**



Data.austintexas.gov Water Quality Sampling Data

More Views
Views

Sort by Show only

Search views

Bee Creek Water Quality Data
Last month by WRE_ADMIN
Data collected to assess water quality conditions in

Mabel_Davis_Pond_Data
Last year by WRE_ADMIN
Data collected to assess water quality conditions in

CADDISFLIES
2 years ago by WRE_ADMIN
Data collected to assess water quality conditions in

Austin Total Maximum Daily Load P...
Last year by WRE_ADMIN
Filter of Water Quality Sampling Data that is

BARTON AREA SPRINGS NITRATE...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

Barton Area Springs Nitrate Averag...
Today by WRE_ADMIN
Data collected to assess water quality

CADDISFLIES_BARTON_CREEK_S...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

Mabel_Davis_Pond_Data_Summary
Today by WRE_ADMIN
Data collected to assess water quality conditions in

Shoal Creek Data

Timeline Data View

14

BARTON AREA SPRINGS NITRATE MG...

Based on Water Quality Sampling Data
Data collected to assess water quality conditions in the

mg/L

1986 1988 1990 1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012

Eliza Spring Old Mill (Sunkken Gardens) Spring Barton Spring High Barton Spring

Data.austintexas.gov Water Quality Sampling Data

Inv

Bubble Chart View



More Views

Barton Springs Nitrate
2 months ago by WRE_ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NTIRATE...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

CADDISFLIES_BARTON_CREEK
Today by WRE_ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NITRATE
2 weeks ago by WRE_ADMIN
Data collected to assess water quality conditions in

BARTON SPRING AVERAGE NITRA...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

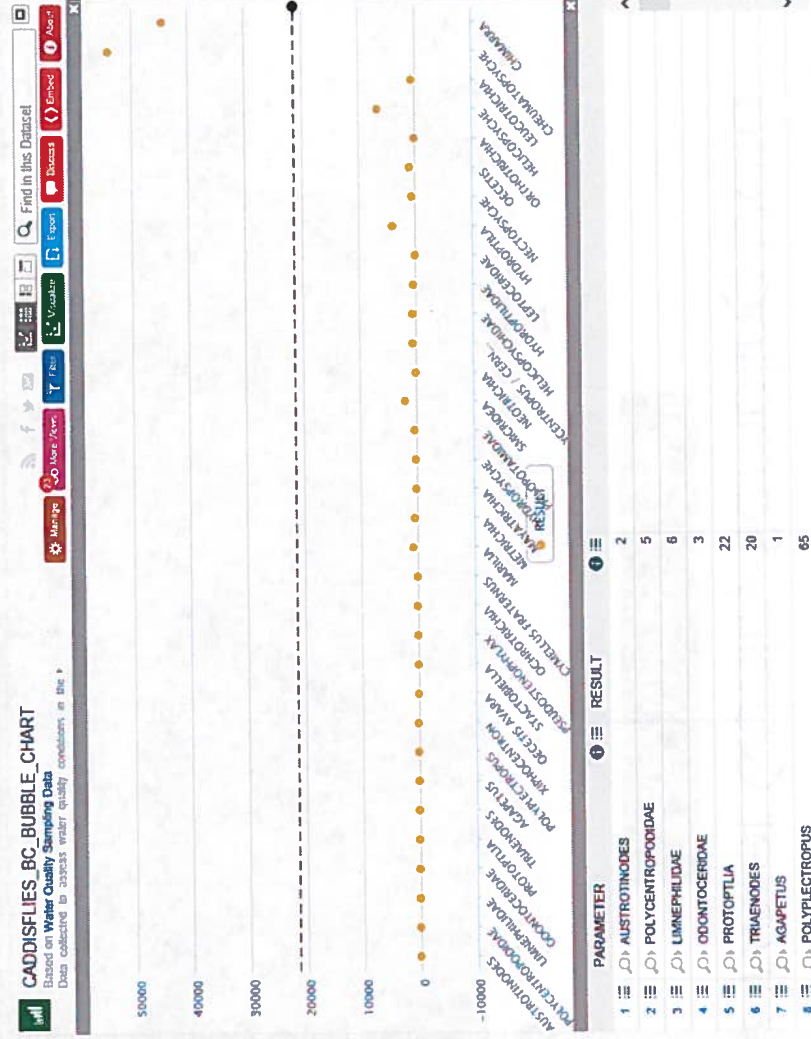
Barton Springs Area Nitrate Calend...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

CADDISFLIES_BC_BUBBLE_CHART
Today by WRE_ADMIN
Data collected to assess water quality

BARTON AREA SPRINGS NITRATE...
Today by WRE_ADMIN
Data collected to assess water quality conditions in

BARTON AREA SPRINGS NITRATE...
6 days ago by WRE_ADMIN
Data collected to assess water quality conditions in

Find Your Watershed_Eil_Current
Last month by WRE_ADMIN
Data provided as part of the "Find Your Watershed"



Data.austintexas.gov Water Quality Sampling Data

More Views

CADDOISFLIES, BARTON_CREEK

Today by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE

2 weeks ago by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON SPRING AVERAGE NITRATE BY YEAR

Today by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

Barton Springs Area Nitrate Calendar View Example

Today by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

CADDOISFLIES BC_BUBBLE_CHART

Today by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE AVERAGE P...

Today by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

BARTON AREA SPRINGS NITRATE AVERAGE MG/L B...

6 days ago by WIRE ADMIN

Data collected to assess water quality conditions in the natural creeks.

Find Your Watershed ALL Current

Last month by WIRE ADMIN

Data provided as part of the "Find Your Watershed" viewer on the

Find Your Watershed ALL Current

Last month by WIRE ADMIN

Data provided as part of the "Find Your Watershed" viewer on the

Tree Map View

Ivy

And Much More ...

[illegible]



Environmental Data Openness

Water Quality Publications Search

Data.austintexas.gov – Water Quality Sampling Data

– Potential of Open Data

www.austintexas.gov – Find Your Watershed Map

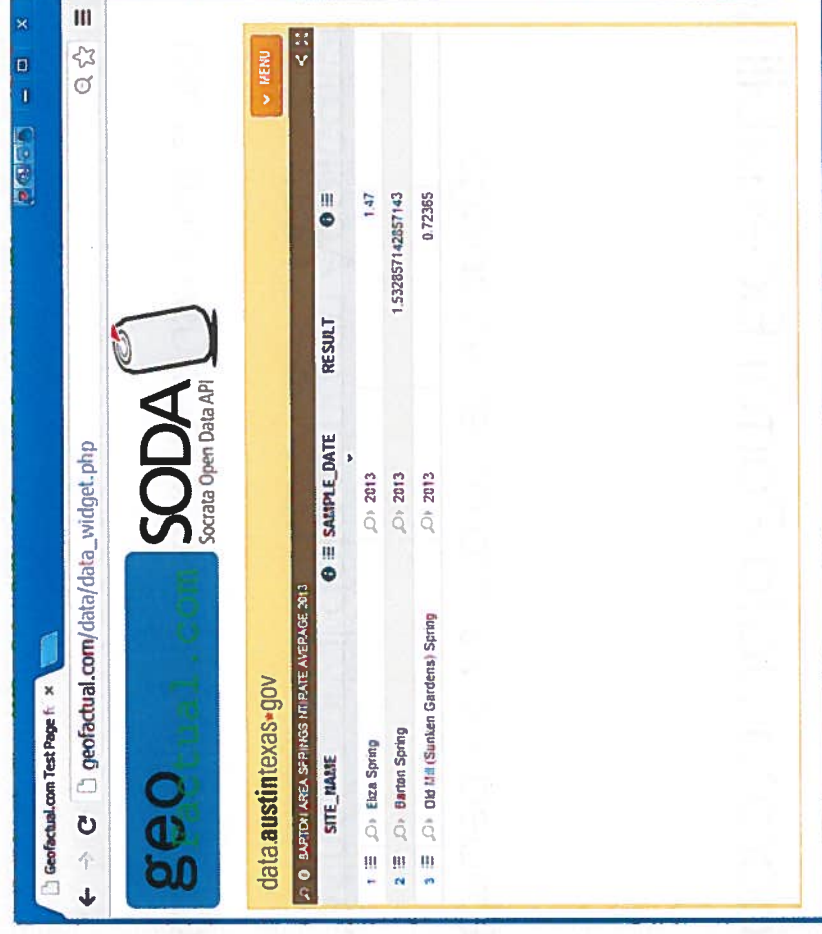


Socrata Data Portal Extensibility: Open Data API

- Embed Views into other webpages
- “Mine” portal data using an Application Programming Interface (API)
- Create applications that use that data

Socrata Data Portal Extensibility: Open Data API

- Embed Views into other webpages



The screenshot shows a web browser window with the address bar displaying 'geofactual.com/data/data_widget.php'. The page features a SODA (Socrata Open Data API) widget. The widget header includes the 'geoactual.com' logo and the 'SODA Socrata Open Data API' text. Below the header, the dataset 'data.austintexas.gov' is selected, and the specific view 'BARTON AREA SPRINGS INITIATE AVERAGE 2013' is displayed. The data is presented in a table with three columns: SITE_NAME, SAMPLE_DATE, and RESULT.

SITE_NAME	SAMPLE_DATE	RESULT
1 Elza Spring	2013	1.47
2 Barton Spring	2013	1.532857142857143
3 Old US (Sunken Gardens) Spring	2013	0.72365

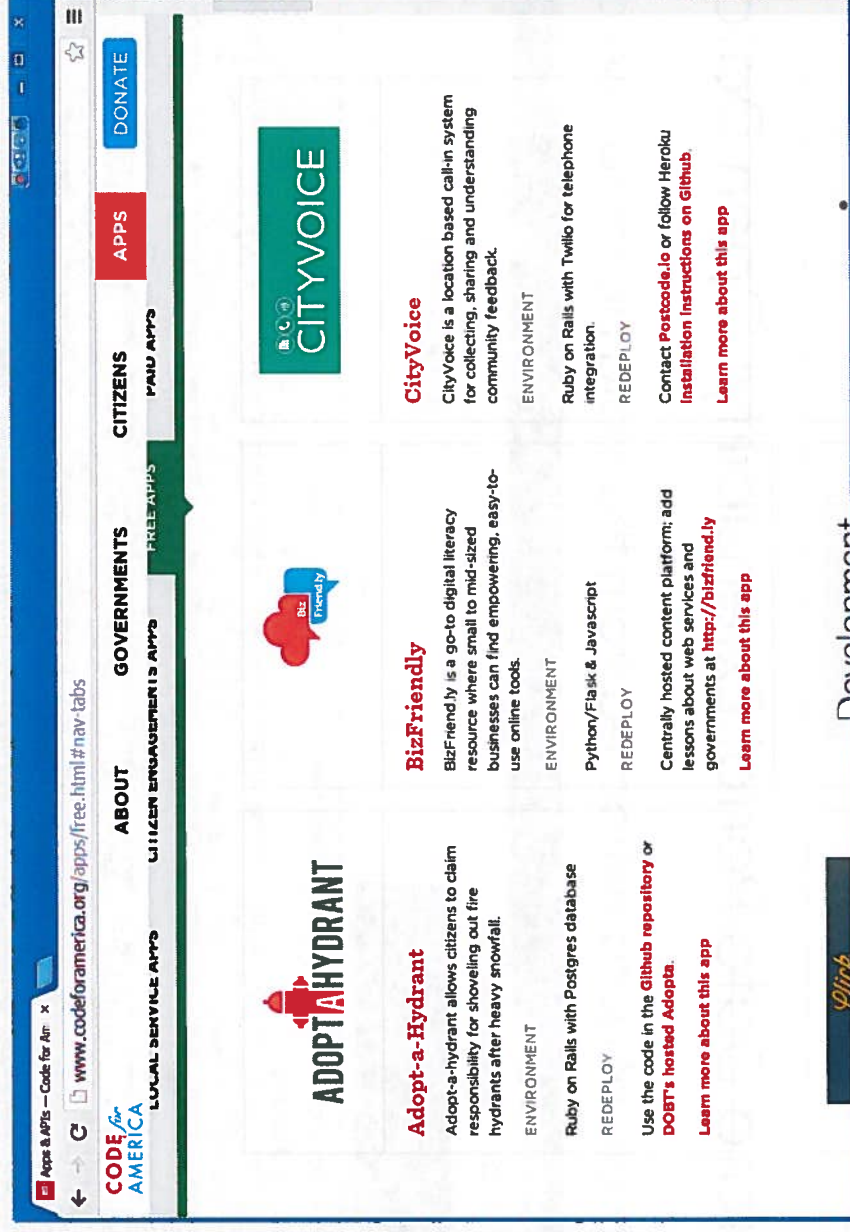
<http://www.austintexas.gov/page/austin-watersheds-list>

- Example of data extracted from the data portal for use on another site



Socrata Data Portal Extensibility: Open Data API

- Example of groups building applications based upon open data:





Socrata Data Portal Extensibility: Open Data

Challenges to extending our water quality data

- Data is relevant to a specific place and time
- Very large and complex dataset
- A summary can become inaccurate without context



Socrata Data Portal Extensibility: Open Data

Opportunities in extending our water quality data

- Participate with Open Austin and let them define useful products
- Learn what would be useful ways to provide data
- Help advise on how to keep generalizations accurate



Environmental Data Openness

Water Quality Publications Search

Data.austintexas.gov – Water Quality Sampling Data

– Potential of Open Data

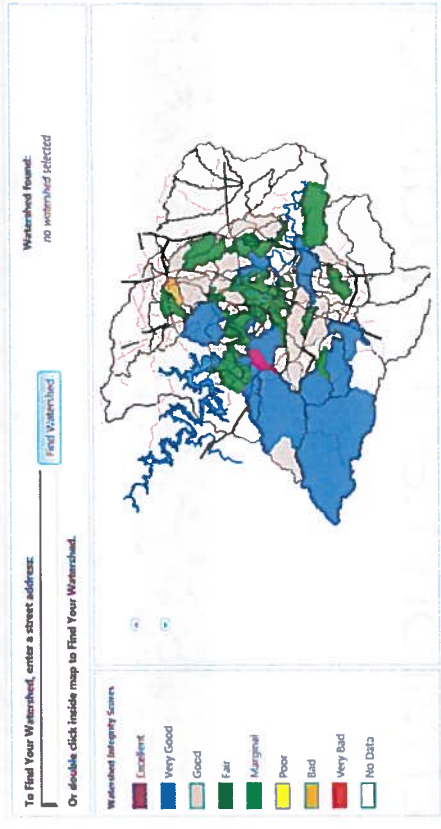
www.austintexas.gov – Find Your Watershed Map



Find Your Watershed Viewer

<http://www.austintexas.gov/GIS/FindYourWatershed/>

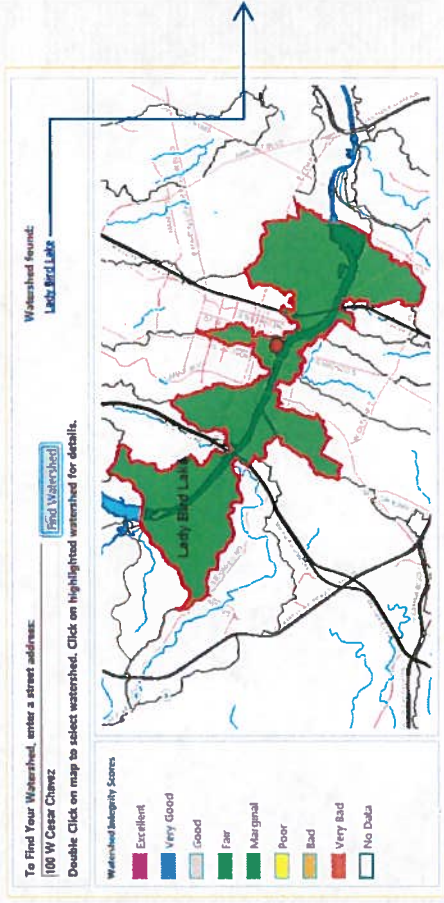
-- Enter a street address and click "Find Watershed" button



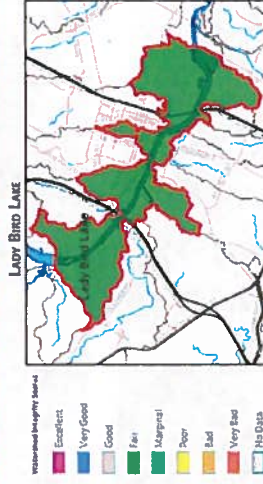
Find Your Watershed Viewer

<http://www.austintexas.gov/GIS/FindYourWatershed/>

-- Enter a street address and click "Find Watershed" button



Department of Watershed Protection - Lady Bird Lake Watershed - Lady Bird Lake, TX 78701



Watershed Scores

Indicator	Score	Category	Details
Overall Score	61	Good	Overall Lady Bird Lake environmental integrity is good
Quality	61	Fair	Water quality is good, but there are some concerns about the lake and its surroundings
Sediment	58	Fair	PAHs are high, herbicides/pesticides are low, metals are moderate (copper, lead, and zinc are high)
Eutrophication	50	Marginal	Chlorophyll a is high with higher than normal influence of blue-green/green algae
Vegetation	64	Very Good	Trees are healthy, shrubs are average, exotic species coverage is low
Habitat	59	Fair	Wetland areas are marginal to fair, riparian areas are marginal to fair, and some habitats are fair
Aquatic Life	73	Good	The downstream benthic macroinvertebrate community consists of polychaete, crustacean, and insect species, with some diversity, but some species are missing

*The above table represents a summary of data collected as part of the [Austin Lake Assessment](#)

Click here for the full report data

Watershed Facts

- Created in 1900 the "Flow through" reservoir is downstream of Lake Austin, receives water from near major tributaries, and is the primary source of water for the city of Austin.
- Lake Austin, Lady Bird Lake has a distinct seasonal flow pattern, with higher flows and more diverse conditions in the summer and low flow, lake-like conditions after October, making the lake more susceptible to autumn algae blooms.
- Lady Bird Lake is kept at a near constant level (regulate) for operation of now decommissioned Holy Power hydroelectric dam.
- Water quality is excellent in the upper portion of the lake and poor in the lower portion.
- Aquatic life is diverse, but there are some concerns about the lake and its surroundings.
- Lady Bird Lake's water quality is regulated by runoff from its watershed, but increasing is prohibited based on safety concerns, not water quality. Bacteria levels on the lake are typically only elevated above contact recreation standards after storm events.
- There are some concerns about the lake and its surroundings, but the lake is a valuable asset to the city of Austin and is a source of recreation and a healthy natural environment.

