



Göteborgs  
Stad

# Älvövervakning v 2.0

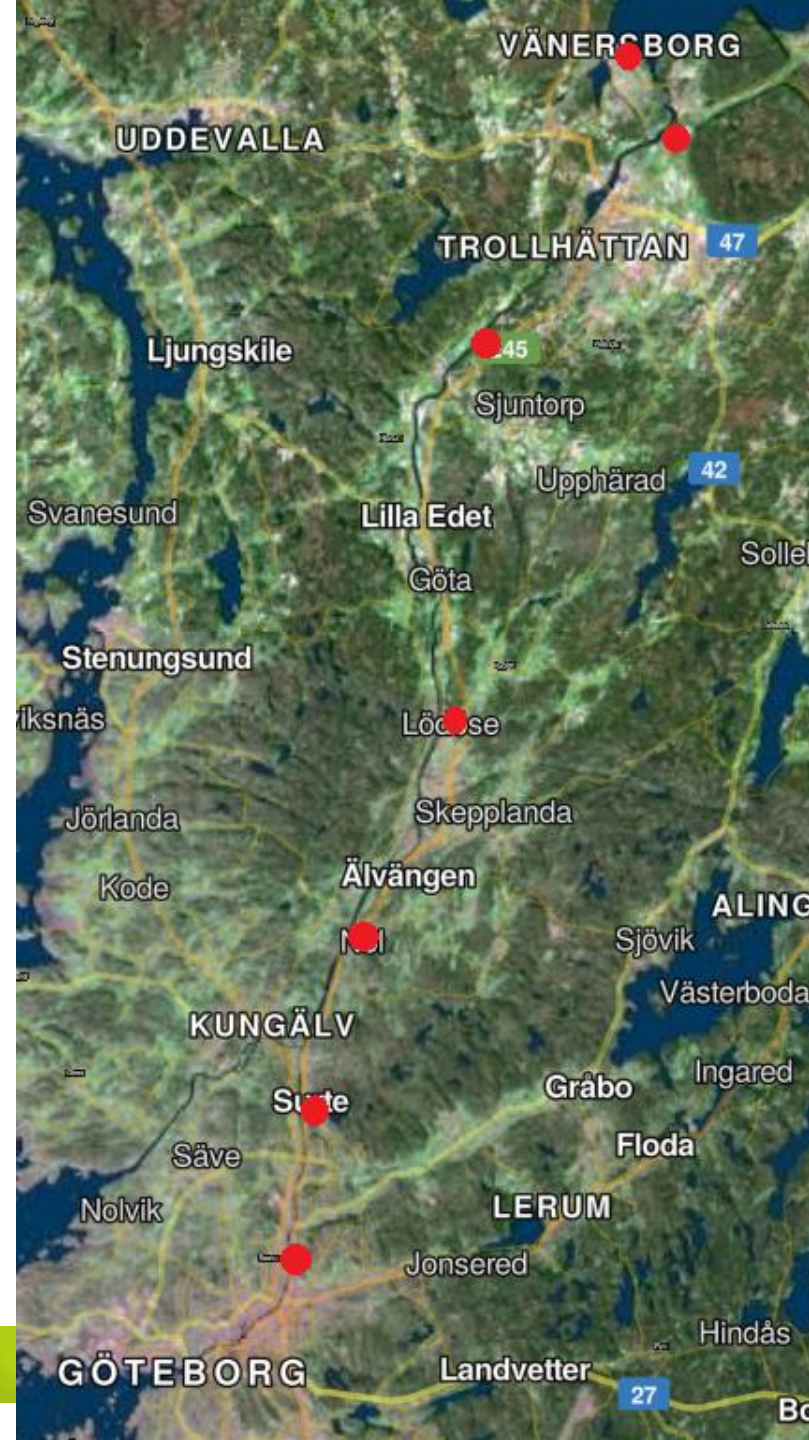
Olle Dahlberg

Utveckling och projekt, Vattenverksprojekt



# Allmänt om övervakningen

- Syfte med övervakning
- Parametrar som mäts
  - Redox/ORP
  - Konduktivitet
  - pH
  - Temp
  - Turbiditet



# Problem

- Gammal utrustning
- Stort underhållsbehov
- Osäker mätning



# Lösning: multiparametersond

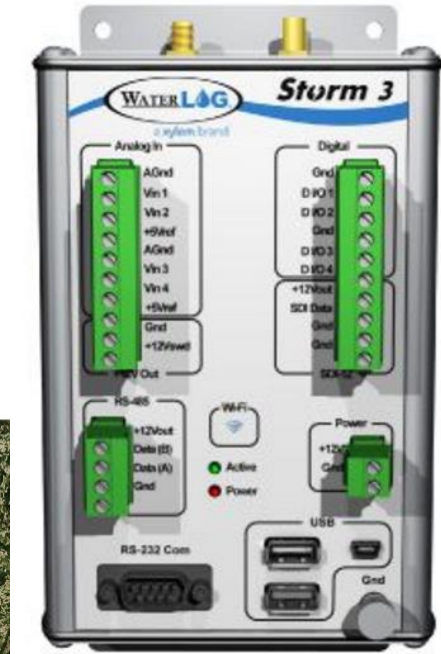


# Lösning: multiparametersond

- Fördelar
  - Självrengörande
  - Ytterligare parametrar möjliga (fDOM, O<sub>2</sub>, BGA)
  - Elektroder kan kalibreras i labbet
  - ”Bra” mätvärden
  - Mobil
- Nackdelar
  - kostnad
  - Oprövad
  - Inkörningsproblem
- Testats på råvatten i Va-verken
- Dubbelkörts mot gamla instrument

# Stormcentral

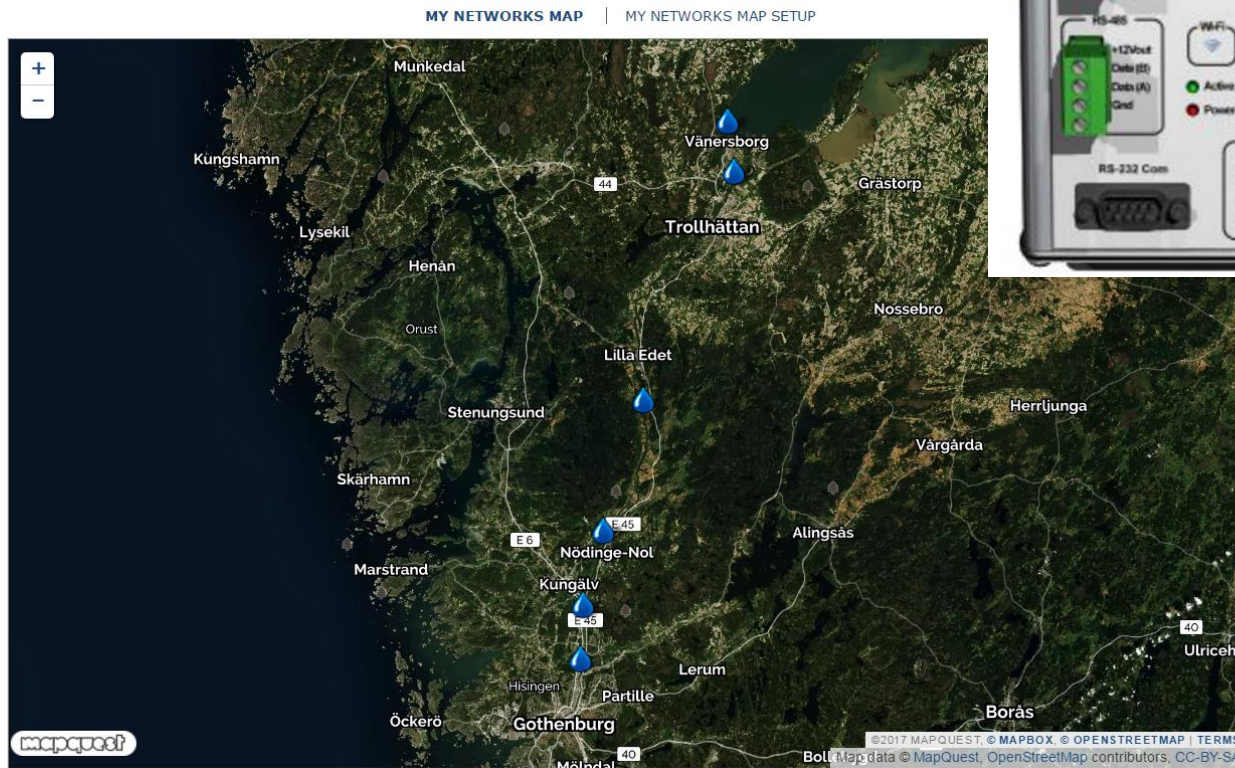
- Existerande lösningar anpassade till sonden
- Användarvänlig
- Möjlighet att sätta larm
- Långsam...



## NETWORKS

My Networks Map

- Default Network
  - Skracklan
- Gota alv
  - Gaddeback
  - Garn
  - Larjeholm
  - Skracklan
  - Sodra Nol
  - Surte





## NETWORKS

Public Networks Map

**Default Network**

Skracklan

**Gota alv**

Gaddeback

Garn

Larjeholm

Skracklan

Sodra Nol

Surte

SITE DETAILS | SITE SETUP

### Site Information



Site ID: Larjeholm  
 Display Name: Larjeholm  
 Network: Gota alv  
 Type: CellModem  
 Last Comm: 3 minutes 13 seconds ago  
 Latitude: 57.7657°  
 Longitude: 12.0054°  
 Description: (None)  
 Notes: (None)

### Data Download

Data Range:  ▼

Data Values:  ▼

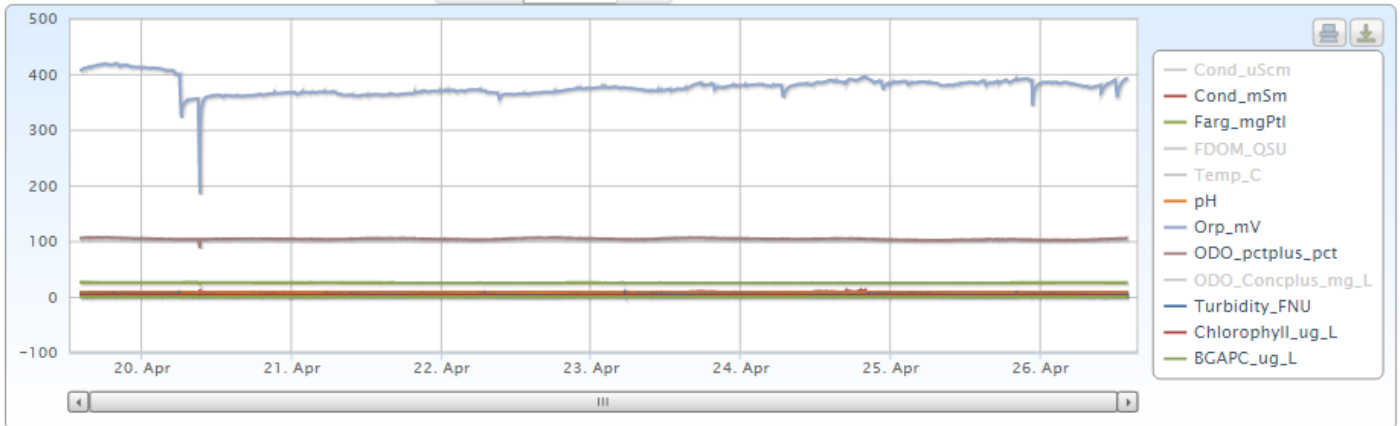
[Download](#)

### Data History

Data Range from:  to:  [Reset](#)

Click and drag to zoom. Toggle sensors in the legend.

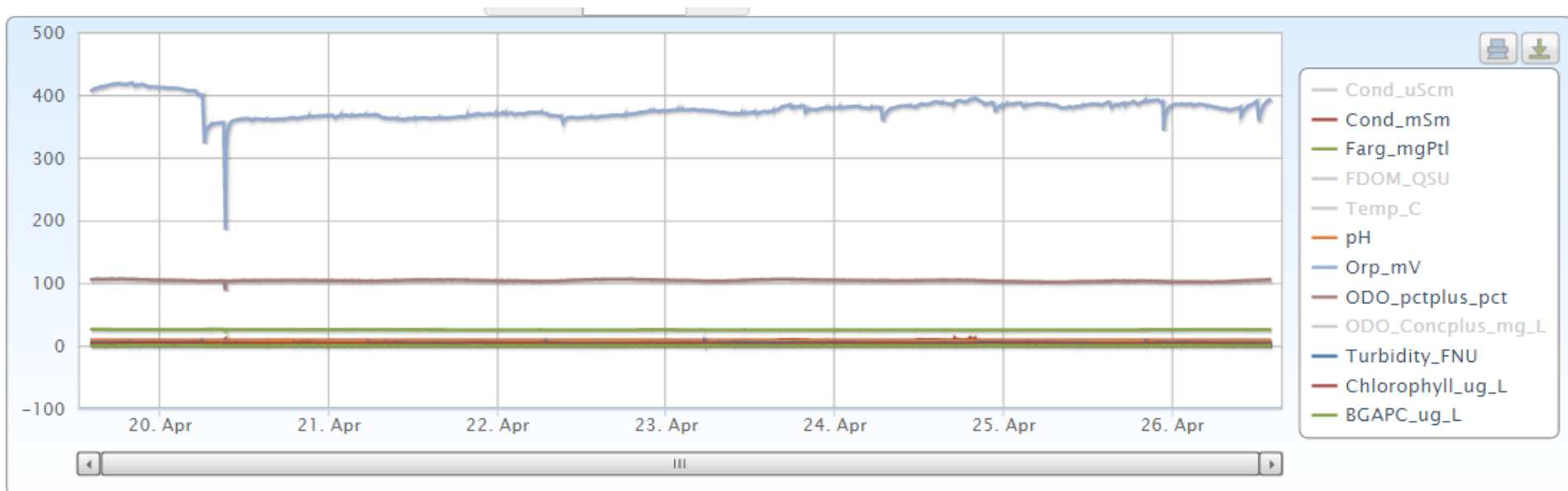
Y-axis Scaling Min:  Max:



Showing 1 to 50 of 3,151 entries

First Previous **1** 2 3 4 5 Next Last

Date	Time	Cond_uScm	Cond_mSm	Farg_mgPtl	FDOM_QSU	Temp_C	pH	Orp_mV	ODO_pctplus_pct	ODO_Concplus_mg_L	Turbidity_FNU	Chlorophyll_ug_L	BGAPC_ug_L
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Showing 1 to 50 of 3,151 entries First Previous **1** 2 3 4 5 Next Last

Date	Time	Cond_uScm	Cond_mSm	Farg_mgPtl	FDOM_QSU	Temp_C	pH	Orp_mV	ODO_pctplus_pct	ODO_Concplus_mg_L	Turb
04/26/2017	14:00:00	84.22	8.422	25.293	29.36	7.25	7.56	393.22	105.59	12.74	
04/26/2017	13:58:00	84.24	8.424	25.273	29.30	7.27	7.56	392.96	105.69	12.74	
04/26/2017	13:56:00	83.94	8.394	25.273	29.30	7.27	7.56	392.82	105.68	12.74	
04/26/2017	13:54:00	84.03	8.403	25.294	29.36	7.26	7.56	392.61	105.65	12.74	
04/26/2017	13:52:00	84.23	8.423	25.317	29.44	7.19	7.56	392.57	105.43	12.74	
04/26/2017	13:50:00	84.24	8.424	25.277	29.33	7.17	7.56	392.33	105.52	12.75	
04/26/2017	13:48:00	84.14	8.414	25.297	29.38	7.21	7.55	392.26	105.48	12.74	
04/26/2017	13:46:00	84.15	8.415	25.310	29.42	7.19	7.56	391.96	105.43	12.73	
04/26/2017	13:44:00	84.37	8.437	25.353	29.55	7.14	7.55	391.81	105.25	12.73	
04/26/2017	13:42:00	84.28	8.428	25.344	29.52	7.16	7.55	391.90	105.40	12.74	
04/26/2017	13:40:00	84.21	8.421	25.323	29.47	7.11	7.56	391.19	105.17	12.73	
04/26/2017	13:38:00	84.13	8.413	25.307	29.42	7.14	7.55	390.98	105.13	12.71	
04/26/2017	13:36:00	84.30	8.430	25.345	29.53	7.12	7.56	390.53	105.12	12.72	
04/26/2017	13:34:00	84.08	8.408	25.337	29.51	7.11	7.56	390.19	105.14	12.73	
04/26/2017	13:32:00	84.08	8.408	25.310	29.44	7.08	7.56	390.05	105.01	12.72	

Show 50 entries



# Larmfunktion

SITES | NETWORKS | **ALARMS** | REPORTS | CONTACTS/REMOTE SERVERS

### Alarm Information

Name:

Description:

Notes:

Enabled:  Yes  No

Suspend:

Acknowledge: Alarm does not need to be acknowledged.

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### Alarm Condition

Simple: 

Site	Sensor	Condition	Set Point	Reset Point
<input type="text" value="Surte"/>	<input type="text" value="FDOM_QSU"/>	<input type="text" value="greater than"/>	<input type="text" value="50"/>	<input type="text"/>

Advanced:

Debug: 34.30 > 50


Status: *false*

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### Alarm Actions & Notifications

Actions:

Change Icon on Map

Site:  Icon: 

Notifications:

Frequency:  Until Acknowledged  First occurrence only

Send E-mail

Subject:

Message:

Recipient(s):

Send SMS Text Message



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## KONTAKT:

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Namn

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<https://stormcentral.waterlog.com/public/LuodeConsult>