



# User guide for the Almos website

## DOC- 130- 017



## Document Control

Issue	Details	Author	Date
1.0	TW Release	MH	03Apr2012
1.1	General Customer release version	AB	24Jun2103

## Introduction

This is the user guide for the Almos website, used to view the logged noise data from installed HWM Permalog LX product.

The website contains features for viewing the logger fleet either in map or list form, producing reports and also setting baseline noise levels. A prior basic knowledge of the operating principles of the Permalog LX product is assumed.

This document does not cover any details of installing or commissioning the logger products themselves, this guide may be read in conjunction with the end to end logger commissioning process documents if required.

### 1. Logging In.

- a. At the Almos web site (<http://almos.hwmonline.com/index.asp>) Enter your Login: xxxxxxxx and click Log In.

The screenshot displays the ALMOS LEAK website interface. At the top, it reads "ALMOS LEAK Acoustic Leak Monitoring Online System". Below this, a tagline says "Saving water, time and money" and "Access your leakage noise logger data from your desktop". A login prompt asks the user to "Enter your ALMOS LEAK username to logon to your account:" with a text input field and a "Log in" button. A navigation menu on the left includes links for Home, Learn more about ALMOS, About Permalog and Permanet, Try our demo, Company profile, Contact us, Go to Leifkoch.dk, and Language options. A diagram illustrates the system architecture: "Your server" (tower PC) connects to "Your PC, tablet or iPad" (laptop) via "Internet". The "Your server" also connects to an "ALMOS LEAK web server" (rack server) via "FTP". The "ALMOS LEAK web server" connects to the "Your PC, tablet or iPad" via "SMS/GPRS". A "GPRS" tower is shown connected to the "ALMOS LEAK web server". The laptop screen displays a "Leak!" alert. On the right, there are images of the ALMOS LEAK software interface, including a data table and a map with location markers, and a physical acoustic leak detector device.

a. Enter Username and Password

**ALMOS LEAK**  
Acoustic Leak Monitoring Online System

Welcome **Thames Water**

Username:

Password:

Forgot your Username or Password?  
Enter your email address below

Email:

Home  
Learn more about ALMOS  
About Permalog and Permanet  
Try our demo  
Company profile  
Contact us  
Go to Leifkoch.dk  
Language:

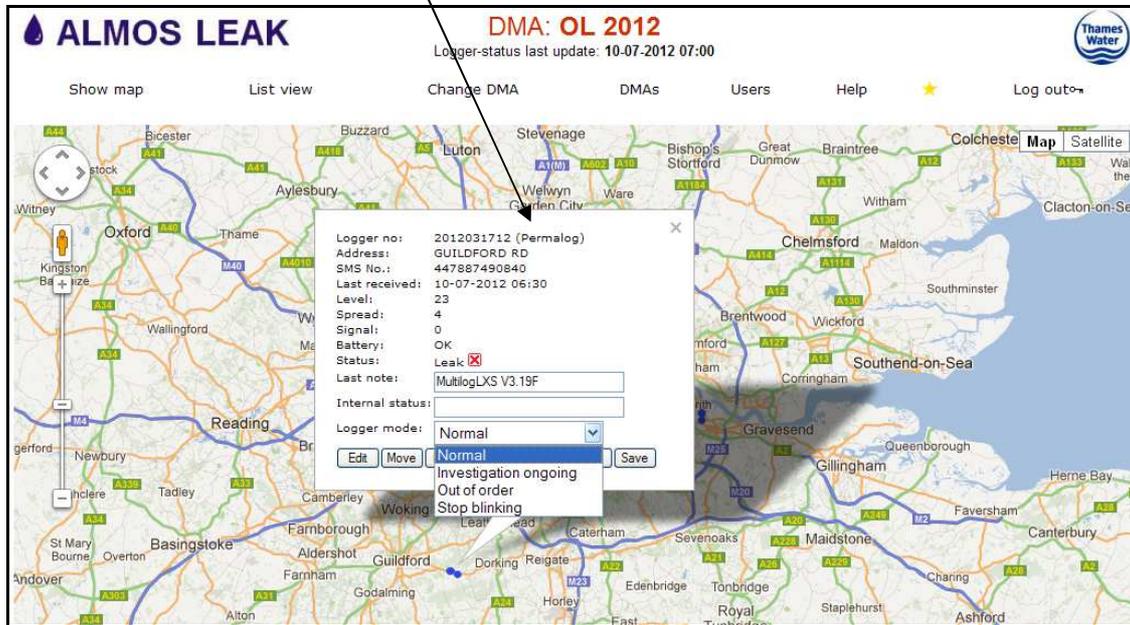
**AQUIS**  
New!

1. Map View.

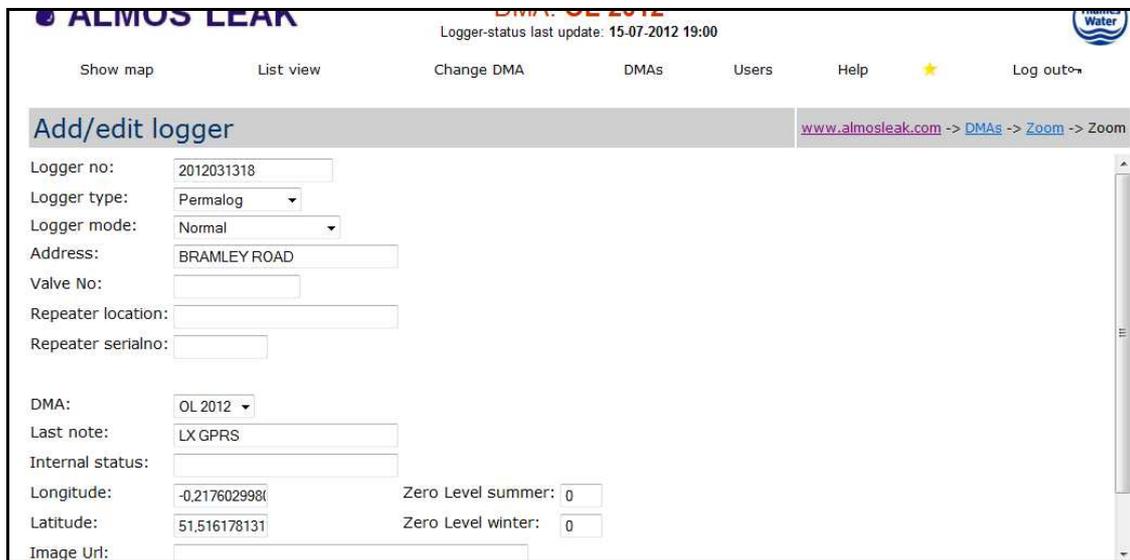
The user can view logger position and status in map mode with zoom function. This is based on Google Maps with the same zoom and navigation controls.



- a. Information about a particular logger can be viewed by clicking on a logger location. The logger status can be set, the history viewed and details about the location changed.



- b. To view further data about the logger and set the baseline noise level, click on 'edit'. The following screen will be shown.



c. The baseline levels for summer and winter can be entered here.

<input type="text" value="-0,2176029980"/>	Zero Level summer: <input type="text" value="10"/>
<input type="text" value="51.516178131"/>	Zero Level winter: <input type="text" value="10"/>
<input type="text"/>	
System 14-06-2012 15:52	
<input type="button" value="Save"/>	<input type="button" value="Cancel"/>

NB. The status of the device is set thus.

The spread value is subtracted from the leak value.

The summer or winter baseline value is subtracted from this value.

If the resulting value is greater than zero but less than 15, the status is 'possible leak'.

If the resulting value is greater than 15, the status is 'leak'.

Therefore if the normal level is 20 and the normal spread is 5, the summer value should be set to 15. The logger can be made sensitive by using higher values of summer and winter offset, for instance if occasional higher values are seen.

## 2. List View.

a. The user can view data in a table (list) view. The table can be set to display all, only those in leak, only those with missing data or only leak or missing data. The search function can be used to find a single logger of interest.



**DMA: OL 2012**

Logger-status last update: 20-07-2012 06:44



Show map
List view
Change DMA
DMAs
Users
Help
★
Log out

**List view** [Print](#) [CSV](#) [www.almosleak.com -> List view](#)

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012030997	PARK LANE	-	-	5	5	21	20-07-2012 06:30	MultilogLXS 3.19
2012030998	PORTMAN SQ	-	-	8	23	14	20-07-2012 06:30	MultilogLXS 3.19
2012030999	DUNRAVEN ST	-	-	24	8	14	20-07-2012 06:30	Leak invest 09/0 ...
2012031000	PARK LANE	-	-	21	15	8	20-07-2012 06:30	MultilogLXS 3.19
2012031002	Redcliffe Rd	Leak	-	25	6	11	20-07-2012 06:30	Leak invest Ongo ...
2012031003	Seymour Walk	-	-	16	5	8	20-07-2012 06:30	Leak Repaired 09 ...
2012031004	Seymour Walk	-	-	23	4	5	20-07-2012 06:30	Location Issued ...
2012031005	Fulham Rd	-	-	25	10	20	27-06-2012 06:30	LX GPRS
2012031006	Fulham Rd	-	-	4	15	5	20-07-2012 06:30	LX GPRS
2012031007	55945 6 of 20 Vodafone	-	-	8	11	5	06-07-2012 06:30	LX GPRS
2012031008	Fulham Rd	-	-	19	25	21	20-07-2012 06:30	LX GPRS
2012031009	Fulham Rd	-	-	4	13	4	20-07-2012 06:30	LX GPRS
2012031010	Holloway Road 1	-	-	24	20	4	20-07-2012 06:30	LX GPRS
2012031011	Holloway Road 3	Leak	-	39	6	17	20-07-2012 06:30	Burst Main locat ...

- b. History tab enables the user to view the level and spread of each logger over the period it has been communicating.

**ALMOS LEAK** DMA: OL 2012  
 Logger-status last update: 10-07-2012 07:00

Show map List view Change DMA DMAs Users Help Log out

List view [Print](#) [CSV](#) [www.almosleak.com](#) -> List view

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012030997	PARK LANE	-	-	5	5	0	10-07-2012 06:30	MultilogLXS 3.19
2012030998	PORTMAN SQ	-	-	7	22	0	10-07-2012 06:30	MultilogLXS 3.19
2012030999	DUNRAVEN ST	-	-	26	11	0	10-07-2012 06:30	MultilogLXS 3.19
2012031000	PARK LANE	-	-	19	16	0	10-07-2012 06:30	MultilogLXS 3.19
<b>Loggerno: 2012030997</b>				<b>Date</b>	<b>Level</b>	<b>Spread</b>	<b>Leak</b>	
2012031002	Redcliffe			10-07-2012	5	5	-	29 12 0 10-07-2012 06:30 LX GPRS
2012031003	Seymour			09-07-2012	5	4	-	15 4 0 10-07-2012 06:30 LX GPRS
2012031004	Seymour			08-07-2012	6	5	-	24 4 0 07-07-2012 06:30 LX GPRS
2012031005	Fulham			07-07-2012	6	5	-	25 10 0 27-06-2012 06:30 LX GPRS
2012031006	Fulham			06-07-2012	5	5	-	4 13 0 10-07-2012 06:30 LX GPRS
2012031007	Fulham			05-07-2012	6	7	-	8 11 0 06-07-2012 06:30 LX GPRS
2012031008	Fulham			04-07-2012	20	9	-	15 23 0 10-07-2012 06:30 LX GPRS
2012031009	Fulham			03-07-2012	17	14	-	4 9 0 10-07-2012 06:30 LX GPRS
2012031010	Holloway			02-07-2012	18	12	-	21 19 0 10-07-2012 06:30 LX GPRS
2012031011	Holloway			01-07-2012	23	12	-	41 20 0 10-07-2012 06:30 LX GPRS
				30-06-2012	25	10	-	
				29-06-2012	19	15	-	

- c. Edit tab enables the user to edit logger details from the list view.

**ALMOS LEAK** DMA: OL 2012  
 Logger-status last update: 20-07-2012 06:44

Show map List view Change DMA DMAs Users Help Log out

List view [Print](#) [CSV](#) [www.almosleak.com](#) -> List view

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012030997	PARK LANE	-	-	5	5	21	20-07-2012 06:30	MultilogLXS 3.19
2012030998	PORTMAN SQ	-	-	8	23	14	20-07-2012 06:30	MultilogLXS 3.19
2012030999	DUNRAVEN ST	-	-	24	8	14	20-07-2012 06:30	Leak invest 09/0 ...
2012031000	PARK LANE	-	-	21	15	8	20-07-2012 06:30	MultilogLXS 3.19
2012031002	Redcliffe Rd	Leak	-	25	6	11	20-07-2012 06:30	Leak invest Ongo ...
2012031003	Seymour Walk	-	-	16	5	8	20-07-2012 06:30	Leak Repaired 09 ...
2012031004	Seymour Walk	-	-	23	4	5	20-07-2012 06:30	Location Issued ...
2012031005	Fulham Rd	-	-	25	10	20	27-06-2012 06:30	LX GPRS
2012031006	Fulham Rd	-	-	4	15	5	20-07-2012 06:30	LX GPRS
2012031007	55945 6 of 20 Vodafone	-	-	8	11	5	06-07-2012 06:30	LX GPRS
2012031008	Fulham Rd	-	-	19	25	21	20-07-2012 06:30	LX GPRS
2012031009	Fulham Rd	-	-	4	13	4	20-07-2012 06:30	LX GPRS
2012031010	Holloway Road 1	-	-	24	20	4	20-07-2012 06:30	LX GPRS
2012031011	Holloway Road 3	Leak	-	39	6	17	20-07-2012 06:30	Burst Main locat ...

**Missing Data: Level & Spread**

Select Level, this will organise the data in numerical order.

Zero data equals fault with permalog not communicating with datalogger. Report to HWM to investigate.

**ALMOS LEAK** DMA: OL 2012  
 Logger-status last update: 20-07-2012 06:44

Show map List view Change DMA DMAs Users Help Log out

List view [Print](#) [CSV](#) [www.almosleak.com -> List view](#)

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012031017	Canonbury Road	-	-	0	6	17	20-07-2012 06:30	Location Issued ...
2012031059	55945 20 of 70 Vodafone	-	-	0	21	9	20-07-2012 06:30	MultilogLXS V3.19F
2012031084	FREEMASONS RD 2	-	-	0	20	21	20-07-2012 06:30	LX GPRS
2012031101	MERE CLOSE	-	-	0	6	16	20-07-2012 06:30	LX GPRS
2012031119	NEW KINGS RD	-	-	0	0	7	20-07-2012 06:30	MultilogLXS V3.19F
2012031128	WAVERLY RD	-	-	0	14	7	20-07-2012 06:30	MultilogLXS V3.19F
2012031133	PRIORY LANE	-	-	0	0	6	10-05-2012 06:30	LX GPRS
2012031135	55945 26 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS
2012031136	55945 27 of 100 Vodafone	-	-	0	0	14	23-05-2012 06:30	LX GPRS
2012031138	55945 29 of 100 Vodafone	-	-	0	0	12	24-05-2012 06:30	LX GPRS
2012031139	55945 30 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS
2012031143	CHIGWELL RD	-	-	0	0	5	20-07-2012 06:30	LX GPRS
2012031156	CROMWELL RD	-	-	0	0	13	20-07-2012 06:30	LX GPRS
2012031157	PADDINGTON STREET	Leak	-	0	0	30	20-07-2012 06:30	Leak invest Ongo ...

**Missing Data: Last Received**

Selecting last received will organise the date of last call in date and time of the logger.

**ALMOS LEAK** DMA: OL 2012  
 Logger-status last update: 20-07-2012 06:44

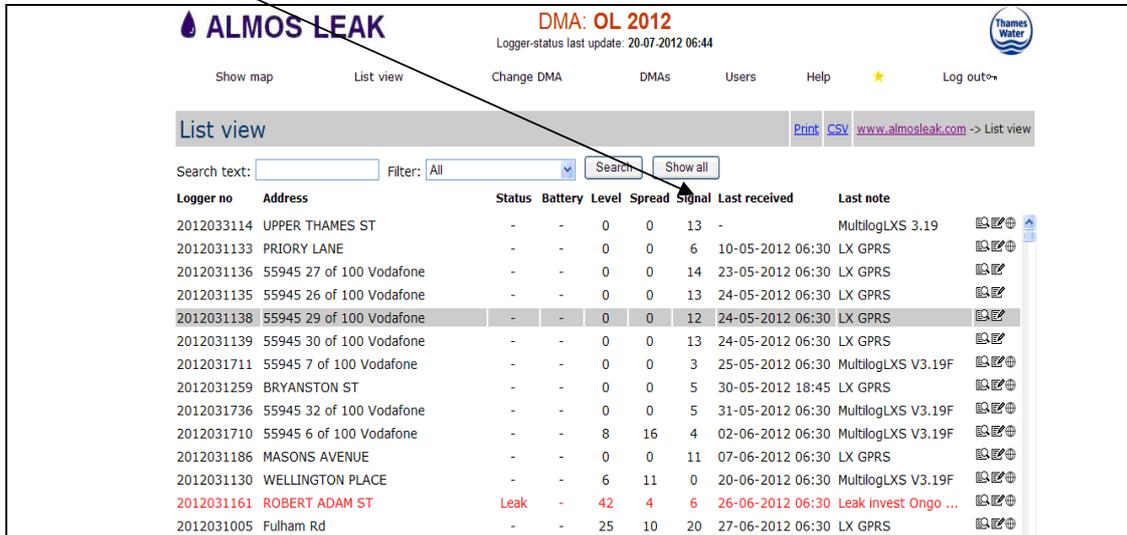
Show map List view Change DMA DMAs Users Help Log out

List view [Print](#) [CSV](#) [www.almosleak.com -> List view](#)

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012033114	UPPER THAMES ST	-	-	0	0	13	-	MultilogLXS 3.19
2012031133	PRIORY LANE	-	-	0	0	6	10-05-2012 06:30	LX GPRS
2012031136	55945 27 of 100 Vodafone	-	-	0	0	14	23-05-2012 06:30	LX GPRS
2012031135	55945 26 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS
2012031138	55945 29 of 100 Vodafone	-	-	0	0	12	24-05-2012 06:30	LX GPRS
2012031139	55945 30 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS
2012031711	55945 7 of 100 Vodafone	-	-	0	0	3	25-05-2012 06:30	MultilogLXS V3.19F
2012031259	BRYANSTON ST	-	-	0	0	5	30-05-2012 18:45	LX GPRS
2012031736	55945 32 of 100 Vodafone	-	-	0	0	5	31-05-2012 06:30	MultilogLXS V3.19F
2012031710	55945 6 of 100 Vodafone	-	-	8	16	4	02-06-2012 06:30	MultilogLXS V3.19F
2012031186	MASONS AVENUE	-	-	0	0	11	07-06-2012 06:30	LX GPRS
2012031130	WELLINGTON PLACE	-	-	6	11	0	20-06-2012 06:30	MultilogLXS V3.19F
2012031161	ROBERT ADAM ST	Leak	-	42	4	6	26-06-2012 06:30	Leak invest Ongo ...
2012031005	Fulham Rd	-	-	25	10	20	27-06-2012 06:30	LX GPRS

Signal level



**ALMOS LEAK** DMA: OL 2012  
Logger-status last update: 20-07-2012 06:44

Show map List view Change DMA DMAs Users Help ★ Log out»

List view [Print](#) [CSV](#) [www.almosleak.com](http://www.almosleak.com) -> List view

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note	
2012033114	UPPER THAMES ST	-	-	0	0	13	-	MultilogLXS 3.19	
2012031133	PRIORY LANE	-	-	0	0	6	10-05-2012 06:30	LX GPRS	
2012031136	55945 27 of 100 Vodafone	-	-	0	0	14	23-05-2012 06:30	LX GPRS	
2012031135	55945 26 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS	
2012031138	55945 29 of 100 Vodafone	-	-	0	0	12	24-05-2012 06:30	LX GPRS	
2012031139	55945 30 of 100 Vodafone	-	-	0	0	13	24-05-2012 06:30	LX GPRS	
2012031711	55945 7 of 100 Vodafone	-	-	0	0	3	25-05-2012 06:30	MultilogLXS V3.19F	
2012031259	BRYANSTON ST	-	-	0	0	5	30-05-2012 18:45	LX GPRS	
2012031736	55945 32 of 100 Vodafone	-	-	0	0	5	31-05-2012 06:30	MultilogLXS V3.19F	
2012031710	55945 6 of 100 Vodafone	-	-	8	16	4	02-06-2012 06:30	MultilogLXS V3.19F	
2012031186	MASONS AVENUE	-	-	0	0	11	07-06-2012 06:30	LX GPRS	
2012031130	WELLINGTON PLACE	-	-	6	11	0	20-06-2012 06:30	MultilogLXS V3.19F	
2012031161	ROBERT ADAM ST	Leak	-	42	4	6	26-06-2012 06:30	Leak invest Ongo ...	
2012031005	Fulham Rd	-	-	25	10	20	27-06-2012 06:30	LX GPRS	

0-7 Insufficient, the device may be able to register with network but will not be able to send or receive data.

7-14 Marginal, depending upon the ambient conditions data transmission may be possible

Investigation required if not called in for on day.

**Possible causes:**

Antenna fallen off and laying at the bottom of the pit, re-position Ariel

Pit full of water Ariel submerged, determine water source.

Data logger failed, check led on top of logger should flash once every eight seconds.  
Not flashing logger has failed, replace logger.

7-14 Marginal, depending upon the ambient conditions data transmission may be possible

**Please note:**

This is only a guide many loggers can still call in between 0-7 signal level. Check last call in time and history to determine course of action.

Data can be printed or exported as a CSV file which can be read by a spreadsheet program such as Excel.

**ALMOS LEAK** DMA: OL 2012  
 Logger-status last update: 10-07-2012 07:00

Show map List view Change DMA DMAs Users Help Log out

List view [Print](#) [CSV](#) [www.almosleak.com](http://www.almosleak.com) -> List view

Search text:  Filter: All

Logger no	Address	Status	Battery	Level	Spread	Signal	Last received	Last note
2012030997	PARK LANE	-	-	5	5	0	10-07-2012 06:30	MultilogLXS 3.19
2012030998	PORTMAN SQ	-	-	7	22	0	10-07-2012 06:30	MultilogLXS 3.19
2012030999	DUNRAVEN ST	-	-	26	11	0	10-07-2012 06:30	MultilogLXS 3.19
2012031000	PARK LANE	-	-	19	16	0	10-07-2012 06:30	MultilogLXS 3.19
2012031002	Redcliffe Rd	Leak	-	29	12	0	10-07-2012 06:30	LX GPRS
2012031003	Seymour Walk	-	-	15	4	0	10-07-2012 06:30	LX GPRS
2012031004	Seymour Walk	Leak	-	24	4	0	07-07-2012 06:30	LX GPRS
2012031005	Fulham Rd	-	-	25	10	0	27-06-2012 06:30	LX GPRS
2012031006	Fulham Rd	-	-	4	13	0	10-07-2012 06:30	LX GPRS
2012031007	Fulham Rd	-	-	8	11	0	06-07-2012 06:30	LX GPRS
2012031008	Fulham Rd	-	-	15	23	0	10-07-2012 06:30	LX GPRS
2012031009	Fulham Rd	-	-	4	9	0	10-07-2012 06:30	LX GPRS
2012031010	Holloway Road 1	-	-	21	19	0	10-07-2012 06:30	LX GPRS
2012031011	Holloway Road 3	Leak	-	41	20	0	10-07-2012 06:30	LX GPRS

**Changing details of Loggers.**

Logger details can only be changed from Datagate as the information is sent from Datagate to Almos.

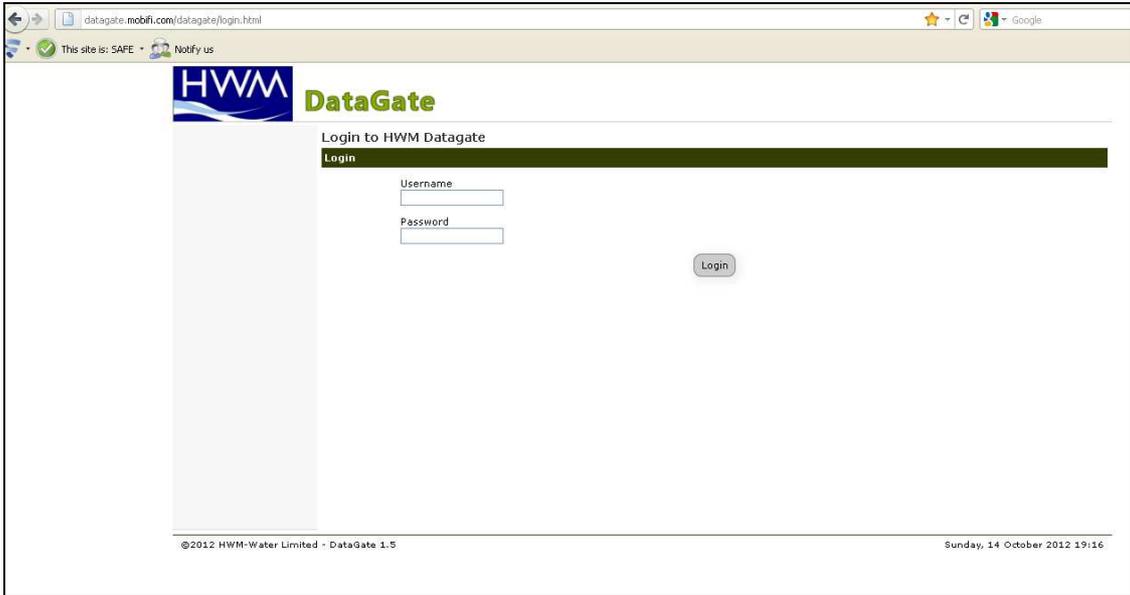
Address Details:

<http://datagate.mobifi.com/datagate/login.html>

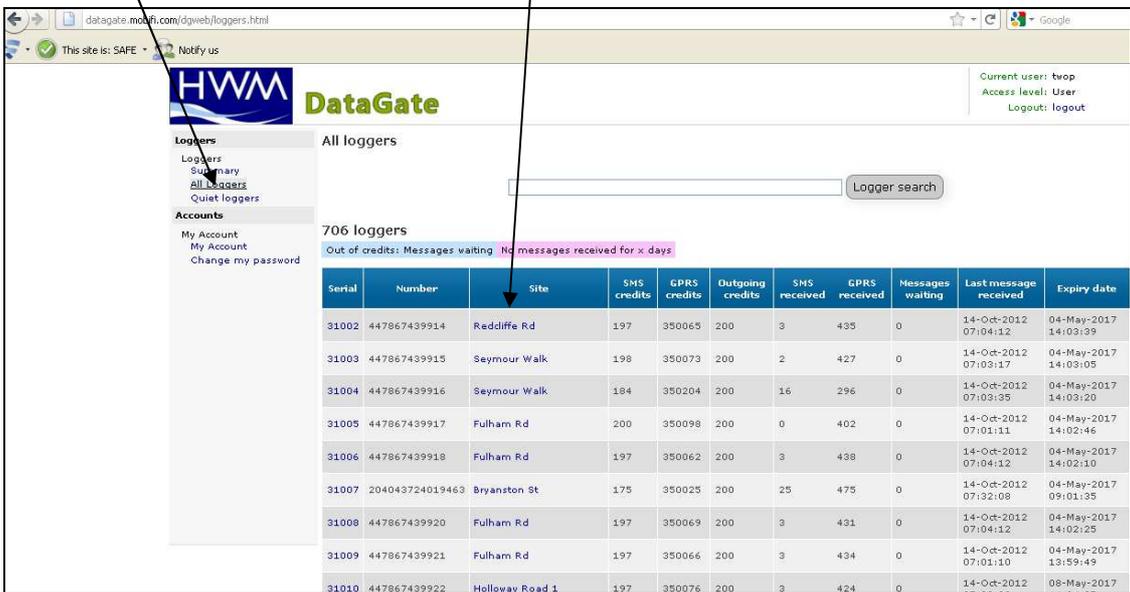
Login in using your Datagate account details :

Username: xxxxxxxx

Password: xxxxxxxx



Select all loggers, then select logger to change clicking on serial no or address field.



Select Edit Logger

**HWM DataGate**

Current user: twop  
Access level: User  
Logout: logout

**Loggers**

- Loggers
- Summary
- All Loggers
- Quiet loggers

**Accounts**

- My Account
- My Account
- Change my password

**View logger**

Serial number: 31002  
Datagate number: 19064  
Mobile number: 447867439914  
GSM data number: 0  
Site name: Redcliffe Rd  
Site id:  
Date created: 24-Apr-2012 11:45:58  
Network: Vodafone  
Type: LX GPRS  
Owned by: Thames Water Olympic Project

Latitude: 526323.600097656  
Longitude: 177955.600097656  
Height AOD: 0.0  
Start date: 04-May-2012 14:03  
End date: 04-May-2017 14:03  
Battery condition: 6.5v  
Signal strength: 21  
Version: 3.19  
Type: FW-102-002U

[Edit logger](#)  
[Edit logger channels](#)

**Channels** | **Accounts** | **Alarm responses** | **Incoming data** | **Incoming text** | **Outgoing messages**

Incoming GPRS messages	Incoming SMS messages	Outgoing messages
Deduct credits: true	Deduct credits: true	Deduct credits: true
Credits: 350065	Credits: 197	Credits: 200
Credits used: 435	Credits used: 3	Credits used: 0
Number received: 435	Number received: 3	Number sent: 0
Waiting for credits: 0	Waiting for credits: 0	Waiting for credits: 0
Last message: 14-Oct-2012 07:04	Last message: 20-Jul-2012 06:47	Last message sent:
Alert after x days: 3	Alert after x days: 3	

©2012 HWM-Water Limited - DataGate 1.5  
Sunday, 14 October 2012 19:23

Change Site name, Latitude and Longitude.

**HWM DataGate**

Current user: twop  
Access level: User  
Logout: logout

**Loggers**

- Loggers
- Summary
- All Loggers
- Quiet loggers

**Accounts**

- My Account
- My Account
- Change my password

**New logger**

Logger type: LX GPRS  
Serial number: 31002  
Mobile number: 447867439914  
Owner: Thames Water Olympic Project  
Site name: Redcliffe Rd  
Site id:  
Site notes: 55945 1 of 20 Vodafone

Network name: Vodafone  
Consider quiet after x days: 3  
Latitude: 526323.600097656  
Longitude: 177955.600097656  
Height (Above Ordnance Datum): 0.0

[Update logger](#)

©2012 HWM-Water Limited - DataGate 1.5  
Sunday, 14 October 2012 19:25

## Update Logger.

The screenshot shows the DataGate mobile interface. At the top, there's a navigation bar with the HWM logo and 'DataGate' text. A notification banner at the top center reads 'Logger updated'. Below this, a table of site details is displayed:

Serial number	31002	Latitude	526323.600097656
Datagate number	19064	Longitude	177955.600097656
Mobile number	447867439914	Height AOD	0.0
GSM data number	0	Start date	04-May-2012 14:03
Site name	Redcliffe Rd	End date	04-May-2017 14:03
Site id		Battery condition	6.5v
Date created	24-Apr-2012 11:45:58	Signal strength	21
Network	Vodafone	Version	3.19
Type	LV: GPRS	Type	FW-102-002U
Owned by	Thames Water Olympic Project		

Below the site details, there are three summary tables:

Incoming GPRS messages	Incoming SMS messages	Outgoing messages
Deduct credits: true	Deduct credits: true	Deduct credits: true
Credits: 350065	Credits: 197	Credits: 200
Credits used: 435	Credits used: 3	Credits used: 0
Number received: 435	Number received: 3	Number sent: 0
Waiting for credits: 0	Waiting for credits: 0	Waiting for credits: 0
Last message: 14-Oct-2012 07:04	Last message: 20-Jul-2012 06:47	Last message sent
Alert after x days: 3	Alert after x days: 3	

At the bottom of the page, there is a footer with copyright information: ©2012 HWM-Water Limited - DataGate 1.5 and the date/time: Sunday, 14 October 2012 19:28.

The logger has now been updated and will update Almos on the next refresh.



HWM-Water Ltd  
 Ty Coch House, Llantarnam Park Way,  
 Cwmbran NP443AW  
 United Kingdom

Date Of Issue 24 June 2013

- 13 -

MAN-130-017

User guide for the Almos website

Issue 1.1 June 2013