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Continuous Water Quality Data Collection VISTA – DataVison - QAQC MANUAL

1. Audit station

QA/QC stations can be audited through the Quick View of the VISTA interface by the operator and system administrator.

When auditing a station, the auditor may select which level (1,2 or 3) they review and whether they wish to do a manual or bulk edit. Audits must be done in the correct order, which means that a time period must be selected as reviewed for Level 1 to be able to audit it for Level 2.

	TA A ON	Main Functions 👻		Configuration -	Alarm 🔹 Inform	nation 🔻			VDV2013
Overview	Level 1-	Level 2 -	Level 3 -	Month Overview	Completeness	Log	Site	AQ station	

Latest Data: 2012-10-20 23:50:00

Level 1 Corrections

Time	User	Variable	Start	Stop	Note	^
2013-09-13 15:23:15	admin	H2S	2012-10-19 00:30:00	2012-10-19 00:30:00	Reverted one value that was corrected by mistake	III
2013-09-13 15:22:33	admin	H2S	2012-10-19 00:30:00	2012-10-19 02:30:00	Offset detected in the data	
2013-08-29 17:48:12	hrund	NO	2012-10-20 00:30:00	2012-10-20 00:40:00	revert NO	

Level 2 Corrections

Time	User	Variable	Code	Start	Stop	Note	-
2013-09-13 15:24:04	admin	NO	BD [Auto Calibration]	2012-10-20 01:00:00	2012-10-20 02:20:00	gfdgfd	п
2013-09-02 13:36:07	hrund	NO2	MC [Module End Cap Missing]	2012-10-20 00:10:00	2012-10-20 00:40:00	аа	5
2013-09-02 13:35:52	hrund	H2S	AE [Shelter Temperature	2012-10-20 00:40:00	2012-10-20 00:50:00	aa	-

Level 3 Corrections

Time	User	Variable	Code	Start	Stop	Note	-
2013-09-13 15:24:53	admin	NO	IS [Volcanic Eruptions]	2012-10-19 00:30:00	2012-10-19 03:10:00	Eyjafjallajökull again!	H
2013-09-03 13:06:25	hrund	NO	Revert	2012-10-20 00:10:00	2012-10-20 00:40:00	revert NO + NO2	
2013-09-03 13:06:25	hrund	NO2	Revert	2012-10-20 00:40:00	2012-10-20 00:40:00	revert NO + NO2	

Period Review

2. Level 1 Corrections

Level 1 corrections aim to locate erroneous data and either correct it or mark it as faulty record. The real time data stream is checked once daily by the operator to timely detect any sensor damage or malfunction. To ease the operator's responsibilities 10 years of data has been combed through in an effort to establish a reliable alarm system, that would send real time warning as soon as an erroneous value is recorded. We found that for MERI's continuous water quality data, following changes in standard deviation (STDV) for each the variables gives a reliable indication of sensor drift. If the daily STDV values fall below the established ranges, the system will send an alarm messages and the operator will check the data set and ultimately the sensor.

The established ranges are below:

Variable	Dimension	Min	Max
Dissolved Oxygen	%	2.0	10.0%
Dissolved Oxygen	mg/L	0.1	1.0
Conductivity	mS/cm	1.0	7.0
Temperature	F	0.2	1.0
Salinity	ppt	1.0	4.0
рН		0.2	1.6
Water level	ft	1.0	3.0

2.1 Manual Edit

Manual edit lets the operator correct data manually. They can select one or more cells for one or more variables. The manual correction can be made statically or time varying. They need to fill out the slope and offset values for the correction.

To display data in the graph below the table, they can select the header of a field in the table by pressing on it.

Static	slope 1	offset 0				
Static	J stope []		Apply slope [ve	aluej+oliset		
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6,838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	3.934	22.79	26.72	0.72	
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435	
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287	
2012-10-20 00:50:00	3.401	5.632	22.67	28.3	0.678	
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
2012-10-20 01:20:00	37.23	1.091	6.667	7.758	0.328	
2012-10-20 01:30:00	39.9	0.793	5.548	6.34	1.06	
2012-10-20 01:40:00	40.83	0.961	10.31	11.27	2.023	
2012-10-20 01:50:00	45.95	0.893	9.26	10.15	-0.495	
2012-10-20 02:00:00	43.75	0.846	10.25	11.1	0.161	
2012-10-20 02:10:00	40.63	1.011	18.63	19.64	0.172	
2012-10-20 02:20:00	40.94	0.89	14.88	15.77	0.645	
2012-10-20 02:30:00	39.01	2.143	13.15	15.3	0.36	
2012-10-20 02:40:00	19.86	0.999	9.21	10.21	1.102	
2012-10-20 02:50:00	11.42	0.798	7.87	8.67	0.731	
2012-10-20 03:00:00	20.29	0.754	5.965	6.719	1.382	
2012-10-20 03:10:00	17.86	0.722	6.784	7.506	1.434	
2012-10-20 03:20:00	18.83	0.743	6.621	7.365	1.939	
2012-10-20 03:30:00	14.74	0.777	6.529	7.306	0.811	
2012-10-20 03:40:00	9.97	1.615	12.56	14.18	0.189	
2012-10-20 03:50:00	16.84	1.125	10.04	11.17	0.335	
2012-10-20 04:00:00	48.44	1.018	4.175	5.192	0.747	
2012-10-20 04:10:00	39.82	0.862	4.232	5.094	0.403	
	41.52	0.818	3.382	4.201	1.012	
2012-10-20 04:20:00				1003500030		

100												
20. Oct	02:00	04:00	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00	21.00
2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	20. Oct 2012	2012

The manual correction can be made statically or time varying.

).	
itatic	slope 1	offset 0	Apply	slope*[v	alue]+off	set	
rols for Static	corrections.						
rols for Static Q station	corrections.	- H 4		н			

Controls for Time Varying corrections.

2.1.1 Correct Data

To manually edit data, the operator needs to start by applying the changes (while editing, the selected cells appear blue)

AQ station	1 Day	т и ←	→ H			✓ Period Reviewed	A Back
Static	slope 1	offset 10	Apply slope*[va	alue]+offset			
Date	H2S	NO	NO2	NOx	SO2		
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	3.934	22.79	26.72	0.72		
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435		
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287		
2012-10-20 00:50:00	3.401	5.632	22.67	28.3	0.678		
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536		

- Select the cells you want to edit
- Select either Static or Time Varying type
- Fill out the slope(s) and offset(s)
- Press the Apply button

AQ station	1 Day	• N +	→ H			✓ Commit Changes	A Back
Static	slope 1	offset 10	Apply slope*[va	alue]+offset	te offset=10		
Date	H2S	NO	NO2	NOx	\$02		
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72		
2012-10-20 00:30:00	2.604	13.066	18.85	21.92	0.435		
2012-10-20 00:40:00	3.454	10.732	13.11	13.85	-0.287		
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678		
	Contraction of the Contraction o	The second second	There are a second s	0000000	Character State		

The values in the selected cells are now shown updated but have not yet been saved. The updated values have a yellow background color until the changes have been committed.

If the changes are correct, then the next step is to save the changes.

- Fill out the Note field. A note must always be entered when committing changes.
- Press the Commit Changes button

AQ station	1 Day	• H	Modifications ha	we been saved		✓ Period Reviewed	A Back
Static	slope 1	offset 10	Apply slope*[va	alue]+offset			
Date	H2S	NO	NO2	NOx	S02		
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72		
2012-10-20 00:30:00	2.604	13.066	18.85	21.92	0.435		
2012-10-20 00:40:00	3.454	10.732	13.11	13.85	-0.287		
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678		
2012 10 20 01:00:00	33.66	1 365	9.67	11.04	0.536		

When the correction has been committed, a notification appears that your Modifications have been saved and the corrected cells appear green.

All corrections are logged. A new line for the committed correction appears at the main page

evel 1 Corrections					Manual Edit	Bulk Edit
Time	User	Variable	Start	Stop	Note	
2013-08-29 13:56:05	hrund	NO	2012-10-20 00:20:00	2012-10-20 00:50:00	offset=10	

The log entry for the Level 1 correction.

2.1.2 Revert Correction

AQ station	1 Day	н +	→ H		
Static] slope 1	offset 0	Apply slope*[va	alue]+offset	Revert
Date	H2S	NO	NO2	NOx	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72
2012-10-20 00:30:00	2.604	13.066	18.85	21.92	0.435
2012-10-20 00:40:00	3.454	10.732	13.11	13.85	-0.287
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536

It is possible to undo changes and revert back to the raw value.

To revert edited cells

- Select the cells you want to revert. Note only corrected values (shown with a green background) can be reverted
- Press the Revert button

AQ station	1 Day	• • •	→ H			✓ Commit Changes	A B
Static	slope 1	offset 0	Apply slope*[v	alue]+offset	Undo Note revert NC)	
Date	H2S	NO	NO2	NOx	SO2	<u>.</u>	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72		
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435		
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287		
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678		
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536		

- Fill out the Note field
- Press the Commit Changes button

AQ station	1 Day	N N	Modification	s have been sav	ved
Static	slope 1	offset 0	Apply slope*[va	alue]+offset	Undo
Date	H2S	NO	NO2	NO	¢
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.28
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536

• A notification appears that your modification have been saved

2.2 Bulk Edit

Bulk edit makes it possible to make corrections for a selected time period. As in manual edit, slope and offset needs to be set and it's possible to select between static or time varying editing. Additionally, time and date periods need to be defined.

tart			Stop				Time Filter					
	Variable			Туре								
1777	H2S											
7	NO			Statio	ŝ.	•		slope	1	offset	0	
	NO2			Statio	Varying							
[[77]	NOx											
127	SO2											

tart	2012-10-20 00:00 🗮 Stop	2012-10-20 23:59 🗎 🔳 Ti	ime Filter
	Variable	Туре	
	H2S		
	NO		
	NO2		
V	NOX	Time Varying	slope0 1 slope1 1 offset0 1 offset1 2
	SO2		

To edit the data, you need to start by selecting variables and setting their slopes and offsets.

- Select the start and stop date
 - If time filter is needed, check the Time Filter and select the hours you want the corrections be made between
 - \circ ~ Time filter can also be used when editing needs to be done every x days
- Check the variables you want to edit
- Select either Static or Time Varying type
- Fill out the slope(s) and offset(s)
- Press the Commit button

	Time Varying	1*[value]+1 1*[value]+2
:e:	offset0=1, <u>offset1</u> =2	

Next you need to confirm the correction of the data

- Fill out the Note field
- Press the Confirm button

A new line for the committed correction appears at the main page

evel 1 Corrections						Manual Edit	Bulk Edit
Time	User	Variable	Start	Stop	Note		
2013-08-29 17:25:29	hrund	NOx	2012-10-20 00:00:00	2012-10-20 23:59:00	offset0=1, offset	t1=2	
2013-08-29 13:56:05	hrund	NO	2012-10-20 00:20:00	2012-10-20 00:50:00	offset=10		

The log entry for the Level 1 correction.

2.3 Period Review

Reviewing a period, makes it possible to correct data on the next level. The colored bar displays the percentage of the data has been reviewed, red indicates unreviewed data but green reviewed data.

Review Period						
AQ station					Level 1	
Reviewed Data (52.55%)						
Review All			01-12			
Start	2012-07-01 00:00		Stop 201	2-10-20 23:50		
Note	Note					
	 S 	ave	Ø Cance	el		

- Select the appropriate level
- Select the time period to review
- Fill out the Note field
- Press the Save button

3. Level 2 Corrections

Level 2 correction allow the operator to note the reason the error(s) occurred in the first place. Level 2 correction notes become part of the QA/QC-d data set and are downloaded along with the data table.

3.1 Manual Edit

When a period has been reviewed for Level 1, it's possible to make corrections for Level 2. Level 2 corrections consist of applying Flags to data.

AQ station	1 Day	M	← → N			✓ Period Reviewed	A Back
Select		App	ly Code				
AA [Sample Press AB [Technician U	sure out of Limi	ts]			\$02		
20 AC [Construction/	Repairs in Area	a]		_ 68	0.727		
20 AE [Shelter Temp	n Damagej Jerature Outsid	e Limits]		= 72	0.282		
AF [Scheduled bu	ut not Collected	1		72	0.72		E
20 AH [Sample Flow	Rate out of Lim	nits]		92	0.435		
Al [Insufficient Da	ta (cannot calc el	ulate)]		85	-0.287		
20 AK [Filter Leak]	-1 			3	0.678		
20 AM [Miscellaneou	erator] is Void]			04	0.536		
20 AN [Machine Malf	unction]			16	-0.703		
20 AP [Vandalism]]			58	0.328		
20 AQ [Collection Er	ror]			4	1.06		
20 AS [Poor Quality	Assurance Res	ults]		- 27	2.023		
2012-10-20 01:50:00	45.95	0.893	9.26	10.15	-0.495		
2012-10-20 02:00:00	43.75	0.846	10.25	11.1	0.161		
2012-10-20 02:10:00	40.63	1.011	18.63	19.64	0.172		
2012-10-20 02:20:00	40.94	0.89	14.88	15.77	0.645		
2012-10-20 02:30:00	39.01	2.143	13.15	15.3	0.36		
2012-10-20 02:40:00	19.86	0.999	9.21	10.21	1.102		
2012-10-20 02:50:00	11.42	0.798	7.87	8.67	0.731		
2012-10-20 03:00:00	20.29	0.754	5.965	6.719	1.382		
2012-10-20 03:10:00	17.86	0.722	6.784	7.506	1.434		
2012-10-20 03:20:00	18.83	0.743	6.621	7.365	1,939		

3.1.1 Correct Data

AQ station	1 Day	N ·	← → N	i	✓ Period Reviewed	A Back
AO [Bad Weather	1	Appl	y Code			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72	
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435	
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287	
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678	
2012-10-20 01:00:00	33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	

- Select the cells you want to edit in the table
- Select the code to be applied
- Press the Apply Code button

AQ station	1 Day	• H	+ + H		✓ Commit Changes	A Back
AO [Bad Weather	1	• App	ly Code Note	evel2 manual		
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.93 <mark>4</mark>	22.79	26.72	0.72	
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435	
2012-10-20 00:40:00	[AO] 3.454	0.732	13.11	13.85	-0.287	
2012-10-20 00:50:00	[AO] 3.401	15.632	22.67	28.3	0.678	
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	

After applying the changes, the cell color changes from blue to yellow and the appropriate code has been added in front of the value

- Fill out the Note field
- Press the Commit Changes button

AQ station	1 Day		Modifications have t	been saved	✓ Period Reviewed	A Back
AO [Bad Weather	1	App	ly Code			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72	E
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435	
2012-10-20 00:40:00	[AO] 3.454	0.732	13.11	13.85	-0.287	
2012-10-20 00:50:00	[AO] 3.401	15.632	22.67	28.3	0.678	
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
2012-10-20 01:20:00	37.23	1.091	6.667	7,758	0.328	

When the changes have been committed the cell color changes from yellow to green

3.1.2 Revert Correction

The changes in Level 2 can be reverted manually like the changes in Level 1.

AQ station	1 Day	M	← → H		
Select		App	ly Code Rever	t	
Date	H2S	NO	NO2	NOx	SO2
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.72
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.28
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.43
2012-10-20 00:40:00	[AO] 3.454	0.732	13.11	13.85	-0.2
2012-10-20 00:50:00	[AO] 3.401	15.632	22.67	28.3	0.67
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.53
0040 40 00 04-40-00	40.04	4 000	6 407	7.046	0.7

To revert edited cells

- Select the cells you want to revert (they should be colored green)
- Press the Revert button

AQ station	1 Day	• H	← → N		✔ Co	mmit Changes
Select		• App	ly Code Undo	Note revert H2	s	
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72	
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435	
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287	
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678	
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
2012 10 20 01-20-00	37.22	1 001	6 667	7 752	0.328	

The code in front of the value has been removed

- Fill out the Note field
- Press the Commit Changes button

AQ station	1 Day		Modifications hav	ve been saved	✓ Pe	eriod Reviewed	A Back
Select		 App 	Undo				
Date	H2S	NO	NO2	NOx	SO2		
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	13.934	22.79	26.72	0.72		
2012-10-20 00:30:00	2.604	3.066	18.85	21.92	0.435		
2012-10-20 00:40:00	3.454	0.732	13.11	13.85	-0.287		
2012-10-20 00:50:00	3.401	15.632	22.67	28.3	0.678		
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536		
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703		

A notification appears that your modification have been saved

3.2 Bulk Edit

Bulk Level 2 corrections consist of applying Flags to data for a selected time period. Bulk edit can be very useful when working with a station that uses periodic processes, for example running a span check every day between 11:00 and 12:00. It is then possible to select the variables, select the appropriate flag and then set the Time Filter to only updated values between 11:00-12:00.

	station QC Le	vei 2 - Buik Eait	✓ Period Reviewed
Start		Stop Time Filter	
	Variable	Flag	
107	H2S	Select	
	NO	Select AA [Sample Pressure out of Limits] AB [Technician Ilnavailable]	
	NO2	AC [Construction/Repairs in Area] AD [Shelter Storm Damage]	
	NOX	AE [Shelter Temperature Outside Limits] AF [Scheduled but not Collected]	
	SO2	AG [Sample Flow Rate out of Limits] AI [Insufficient Data (cannot calculate)] AJ [Filter Damage] AK [Filter Leak] AL [Voided by Operator] AM [Miscellaneous Void] AN [Machine Malfunction] AO [Bad Weather] AP [Vandalism] AQ [Collection Error]	
		AR [Lab Error] AS [Poor Quality Assurance Results]	•

To bulk edit data, you need to start by selecting variables and setting flag.

tart	2012-10-20 00:00	Stop 2012-10-20 23:59	Time Filter	Between 04 • h 00 • m [and] 06	▶ h 00 ▼ m Every 1	day(s
	Variable	Flag				
	H2S	Select	•			
1	NO	Select	•			
	NO2	Select				
7	NOx	AJ [Filter Damage]	•			
	SO2	Select	•			

- Select the start and stop date
 - If time filter is needed, check the Time Filter and select the hours you want the corrections be made between
 - Time filter can also be used when editing needs to be done every x days
- Check the variables you want to edit
- Select the flag you want to use
- Press the Commit button

Next you need to confirm the correction of the data

Confirm Changes

Time Period: 2012-10-20 00:00 - 2012-10-20 23:59, Between 04:00 and 06:00, Every 1 day(s)

Notice that the Confirm window lists all Variables that will be updated and the selected Time Period and the Time Filter if selected.

- Fill out the Note field
- Press the Confirm button

3.3 Period Review

The data needs to be reviewed for Level 2 to make it possible to correct the data for the same time period for Level 3. It's only possible to review the data for time period that is colored red because that data has been reviewed for Level 1. The colored bar displays the percentage of the data has been reviewed, black indicates the data that hasn't been reviewed in the previous level (Level 1), red indicates unreviewed data in Level 2 and green the data that has been reviewed in both Level 1 and Level 2.

Q station						Level 2	•
eviewed Data (0%)							
Review All							
;	Start	2012-09-01 00:00	Ħ	Stop	2012-10-20 23:50		
	Note	Note					
	noro						

- Select the appropriate level
- Select the time period to review
- Fill out the Note field
- Press the Save button

Station							Level 2	
eviewed Data (2	3.46%)							
] Review All								
	Start	2012-09-01 00:00	i	Stop	2012-10-20	23:50		
	Note	Note						

After the Save button has been pressed the selected reviewed period is now shown green.

4. Level 3 Corrections

4.1 Manual Edit

After period has been reviewed for previous levels, it's possible to make corrections for Level 3. A flag is applied to the values being edited. When manually editing Level 3, it's possible to see the values that have been corrected for Level 2.

Select		App	y Code			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	0.282	
012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	0.72	
012-10-20 00:30:00	2.604	3.066	[MC] 18.85	21.92	0.435	
012-10-20 00:40:00	[AE] 3.454	0.732	[MC] 13.11	13.85	-0.287	
012-10-20 00:50:00	[AE] 3.401	15.632	22.67	28.3	0.678	
012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536	
012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
012-10-20 01:20:00	37.23	1.091	6.667	7.758	0.328	
.012-10-20 01:30:00	39.9	0.793	5.548	6.34	1.06	
012-10-20 01:40:00	40.83	0.961	10.31	11.27	2.023	
012-10-20 01:50:00	45.95	0.893	9.26	10.15	-0.495	
012-10-20 02:00:00	43.75	0.846	10.25	11.1	0.161	
012-10-20 02:10:00	40.63	1.011	18.63	19.64	0.172	
012-10-20 02:20:00	40.94	0.89	14.88	15.77	0.645	
012-10-20 02:30:00	39.01	2.143	13.15	15.3	0.36	
012-10-20 02:40:00	19.86	0.999	9.21	10.21	1.102	
012-10-20 02:50:00	11.42	0.798	7.87	8.67	0.731	
012-10-20 03:00:00	20.29	0.754	5,965	6.719	1.382	
012-10-20 03:10:00	17.86	0.722	6.784	7.506	1.434	
012-10-20 03:20:00	18.83	0.743	6.621	7.365	1.939	
012-10-20 03:30:00	14.74	0.777	6.529	7.306	0.811	
012-10-20 03:40:00	9.97	1.615	12.56	14.18	0.189	
012-10-20 03:50:00	16.84	1.125	10.04	11.17	0.335	
2012-10-20 04:00:00	48.44	1.018	4.175	[AJ] 5.192	0.747	
2012-10-20 04:10:00	39.82	0.862	4.232	[AJ] 5.094	0.403	
012-10-20 04:20:00	41.52	0.818	3.382	[AJ] 4.201	1.012	
200						
100						
	~~~					~ ~

### 4.1.1 Correct Data

AQ station	1 Day	K	+ → H	i	<ul> <li>Period Reviewed</li> </ul>	A Back
J [Construction/	/Demolition]	App	ly Code			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	0.72	
2012-10-20 00:30:00	2.604	3.066	[MC] 18.85	21.92	0.435	
2012-10-20 00:40:00	[AE] 3.454	0.732	[MC] 13.11	13.85	-0.287	
2012-10-20 00:50:00	[AE] 3.401	15.632	22.67	28.3	0.678	
2012-10-20 01:00:00	[AO] 33.66	1.365	9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
	07.00	1 4 4 4	0.007	7.750	0.000	

- Select the cells you want to edit in the table
- Select the code to be applied
- Press the Apply Code button

AQ station	1 Day	M	← → N	i	✓ Commit Change	es 🕈 Back
J [Construction	/Demolition]	App	ly Code Note leve	el3 manual		
Date	H2S	NO	NO2	NOx	\$O2	
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727	
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	0.282	
2012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	0.72	E
2012-10-20 00:30:00	2.604	3.066	[MC] [J] 18.85	21.92	0.435	
2012-10-20 00:40:00	[AE] 3.454	0.732	[MC] [J] 13.11	13.85	-0.287	
2012-10-20 00:50:00	[AE] 3.401	15.632	[J] 22.67	28.3	0.678	
2012-10-20 01:00:00	[AO] 33.66	1.365	[J] 9.67	11.04	0.536	
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703	
0040 40 00 04-00-00	27.02	4.004	0.007	7 750	0.000	

After applying the changes, the cell color changes from blue to yellow and the code has been added in front of the value and the code from Level 2 if it exists.

- Fill out the Note field
- Press the Commit Changes button

AQ station	1 Day		Modifications have bee	en saved	✓ Period F	Reviewed	A Back
J [Construction	/Demolition]	• App	ly Code				
Date	H2S	NO	NO2	NOx	SO2		
2012-10-20 00:00:00	0.963	6.838	19.85	26.68	0.727		
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	0.282		
2012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	0.72		=
2012-10-20 00:30:00	2.604	3.066	[MC] [J] 18.85	21.92	0.435		
2012-10-20 00:40:00	[AE] 3.454	0.732	[MC] [J] 13.11	13.85	-0.287		
2012-10-20 00:50:00	[AE] 3.401	15.632	[J] 22.67	28.3	0.678		
2012-10-20 01:00:00	[AO] 33.66	1.365	[J] 9.67	11.04	0.536		
2012-10-20 01:10:00	42.91	1.088	6.127	7.216	-0.703		
2012 10 20 01 20 00	37.23	1 001	6 667	7 758	0.228		

When the changes have been committed the cell color changes from yellow to green.

### 4.1.2 Revert Correction

AQ station	1 Day	н +	• → M	<b></b>	✓ Period Reviewed	A Back
Select		Apply	Code Revert			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	[IM] 6.838	19.85	26.68	[9] 0.727	
2012-10-20 00:10:00	2.521	[IM] 1.663	[MC] 17.06	18.72	[9] 0.282	
2012-10-20 00:20:00	1.381	[IM] 13.934	[MC] 22.79	26.72	[9] 0.72	
2012-10-20 00:30:00	2.604	[IM] 3.066	[MC] [J] 18.85	21.92	[9] 0.435	
2012-10-20 00:40:00	[AE] 3.454	[IM] 0.732	[MC] [J] 13.11	13.85	[9] -0.287	
2012-10-20 00:50:00	[AE] 3.401	[IM] 15.632	[J] 22.67	28.3	[9] 0.678	
2012-10-20 01:00:00	[AO] 33.66	[IM] 1.365	[J] 9.67	11.04	[9] 0.536	

To revert edited cells

- Select the cells you want to revert (they should be colored green)
- Press the Revert button

AQ station	1 Day	• H +	- → M		✓ Commit Changes	A Back
Select		Apply	Code Undo M	lote revert NC	) + NO2	
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	[IM] 6.838	19.85	26.68	[9] 0.727	
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	[9] 0.282	
2012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	[9] 0.72	
2012-10-20 00:30:00	2.604	3.066	[MC] [J] 18.85	21.92	[9] 0.435	
2012-10-20 00:40:00	[AE] 3.454	0.732	[MC] 13.11	13.85	[9] -0.287	
2012-10-20 00:50:00	[AE] 3.401	[IM] 15.632	[J] 22.67	28.3	[9] 0.678	
2012-10-20 01:00:00	[AO] 33.66	(IM) 1.365	[J] 9,67	11.04	[9] 0.536	

The code in front of the value has been removed

- Fill out the Note field
- Press the Commit Changes button

AQ station	1 Day	Mo	difications have been :	aved	Period Reviewed	A Back
Select		Apply	Code Undo			
Date	H2S	NO	NO2	NOx	SO2	
2012-10-20 00:00:00	0.963	[IM] 6.838	19.85	26.68	[9] 0.727	
2012-10-20 00:10:00	2.521	1.663	[MC] 17.06	18.72	[9] 0.282	
2012-10-20 00:20:00	1.381	13.934	[MC] 22.79	26.72	[9] 0.72	
2012-10-20 00:30:00	2.604	3.066	[MC] [J] 18.85	21.92	[9] 0.435	
2012-10-20 00:40:00	[AE] 3.454	0.732	[MC] 13.11	13.85	[9] -0.287	
2012-10-20 00:50:00	[AE] 3.401	[IM] 15.632	[J] 22.67	28.3	[9] 0.678	
2012-10-20 01:00:00	[AO] 33.66	[IM] 1.365	[J] 9.67	11.04	[9] 0.536	

A notification appears that your modification have been saved and the flag of the reverted cells has been removed.

## 4.2 Bulk Edit

Similar to bulk edit for Level 2, there are flags that are set for variables during a selected time period.

Q	station QC L	.evel 3 - Bulk Edit	Period Reviewed	A Back
start		Stop Time Filter		
<u>[7]</u>	Variable	Flag		
	H2S	Select		
	NO	Select           Select           1         [Deviation from a CFR/Critical Criteria Requirement]           2         [Operational Deviation]	<b></b>	
	NO2	3 [Field Issue] 4 [Lab Issue]	H	
	NOx	5 [Outlier] 6 [QAPP Issue] 7 Below Lowest Calibration Level		
	SO2	8       [QA/QC Unknown]         9       [Negative value detected - zero reported]         A       [High Winds]         B       [Stratospheric Ozone Intrusion]         C       [Volcanic Eruption]         B       [Values have been Blank Corrected]         CC       [Clean Canister Residue]         CL       [Surrogate Recoveries Outside Control Limits due to analytical interfer         D       [Sandblasting]         E       [Forest Fire]         EH       ["Estimated Exceeds Upper Range"]         F       [Structural Fire]	rences]	

Start	2012-10-20 00:00	Stop         2012-10-20 23:59         III	Time Filter	
	Variable	Flag		
	H2S	Select		
<b>V</b>	NO	IM [Prescribed Fire]		
	NO2	Select		
	NOx	Select		
	SO2	9 [Negative value detected - zero reported	1	

To bulk edit data, you need to start by selecting variables and setting flag.

- Select the start and stop date
  - If time filter is needed, check the Time Filter and select the hours you want the corrections be made between
  - Time filter can also be used when editing needs to be done every x days
- Check the variables you want to edit

- Select the flag you want to use
- Press the Commit button

18	IM	[Prescribed Fire]
SO2	9	[Negative value detected - zero reported]
Note:	IM an	le b

Next you need to confirm the correction of the data

- Fill out the Note field
- Press the Confirm button

## **5. Reports**

The reports can be accessed through the Quick View. They can all be downloaded to a text file.

Overview	Level 1 🕶	Level 2 🕶	Level 3 🕶	Month Overview	Completeness	Log

## 5.1 Month Overview

HR-BEG HR-END DAY	00 01	01 02	02 03	03 04	04 05	05 06	06 07	07 08	08 09	09 10	10 11	11 12	12 13	13 14	14 15	15 16	16 17	17 18	18 19	19 20	20 21	21 22	22 23	23 24	AVG	MAX	MIN
1	2.94	0.36	0.68	0.26	0.29	1.58	1.83	21	37.5	15.2	11.6	4.52	2.74	1.33	1.5	1.52	1.9	1.83	3.28	11.6	10.6	9.47	4.57	3.59	6.32	37.5	0.26
2	1.43	1.33	1.05	1.05	0.34	0.66	1.53	5.17	11	8.03	7.11	4.89	6.13	5.58	6.61	6.34	11.6	8.65	11	7.64	6.56	5.9	3.5	2.42	5.23	11.6	0.34
3	0.68	0.92	0.15	0.11	0.15	1.74	1.8	9.84	35.2	11.8	2.97	1.64	0.74	1.74	2.33	2.23	6.24	8.79	7.68	5.52	4.67	5.27	2.97	2.56	4.91	35.2	0.11
4	1.09	1.37	0.34	1.29	0.14	0.63	1.76	7.38	21.3	8.94	5.36	6.87	5.99	7.45	7.33	8.34	7.59	6.95	5.98	5.42	3.55	3.03	1.98	1.27	5.06	21.3	0.14
5	1.57	1.04	1.06	0.65	0.43	0.45	1.14	0.68	1.73	1.96	4.93	4.25	4.16	5.77	8.94	2.06	1.74	2.57	6.78	4.52	3.51	2.68	1.69	1.5	2.74	8.94	0.43
6	3.53	1.28	1.26	0.37	0.17	0.094	0.72	3.44	0.67	0.6	1.5	1.17	0.22	0.53	3.09	0.48	0.59	0.46	0.39	1.42	8.86	16.2	7.05	6.7	2.53	16.2	0.094
7	1.07	5.6	7.66	1.65	0.69	4.11	2.65	15.4	61.3	7.98	1.5	1.3	0.3	0.97	0.38	0.91	1.02	1.13	0.77	0.19	0.18	6.99	13.9	8.99	6.11	61.3	0.18
8	3.54	5.45	11.1	0.98	0.59	3.25	18.9	24.8	93.5	32.6	24.1	15	7.4	1.39	0.94	1.14	1.53	1.67	1.67	0.41	0.068	0.019	-0.032	-0.032	10.4	93.5	-0.032
9	[BL]	0	0	0																							
10	[BL]	0	0	0																							
11	[BL]	0	0	0																							
12	[BL]	0	2.65	2.65																							
13	2.65	0.26	0.97	0.15	0.16	0.25	0.19	0.029	0.17	0.29	0.51	2.15	1.62	1.4	2.12	2.85	2.52	2.39	2.48	1.16	1.91	1.24	0.64	0.34	1.19	2.85	0.029
14	0.13	0.048	0.016	-0.031	0.017	0.12	0.51	2.88	7.14	4.1	2.55	3.86	3	3.85	3.95	3.66	6.99	4.06	2.36	1.51	1.48	0.96	0.65	0.75	2.27	7.14	-0.031
15	0.23	0.05	0.076	0.035	0.013	0.02	0.12	1.03	1.68	0.68	0.57	0.5	0.4	0.57	0.92	0.79	0.68	-0.014	0.0097	0.15	0.047	0.28	0.64	1.58	0.46	1.68	-0.014
16	1.09	0.17	1.26	0.018	0.14	0.068	0.29	4.61	9.21	3.62	4.46	3.43	4.39	4.99	5.44	6.39	9.31	5.86	4.89	4.55	2.69	1.46	1.86	1.08	3.39	9.31	0.018
17	0.52	0.068	0.06	0.035	0.17	0.15	0.23	4.09	14.7	14.2	8.79	4.44	6.84	6.34	3.2	1.32	1.46	1.75	4.57	6.81	6.88	2.86	4.64	3.09	4.05	14.7	0.035
18	[AJ]	[AJ]	[AJ]	[AJ]	[A]	[AJ]	1.68	6.71	38.7	15.6	7.34	9.02	8.06	5.79	7.14	10.6	5.83	10.1	2.6	2.95	8.82	8.48	10.3	7	9.26	38.7	1.68
19	5.49	3.12	1.6	1.25	2.16	1.71	1.57	2.76	6.53	9.6	6.31	3.51	4.37	1.29	1.69	1.53	5.89	1.5	1.63	5.26	6.97	3.44	1.95	5.26	3.6	9.6	1.25
20	3.55	1.92	1.53	1	0.3	0.54	0.36	0.28	0.32	1.2	1.53	2.77	2.4	3.61	4.25	3.08	1.43	6.66	4.6	1.94	0.72	0.1	0.079	0.19	1.85	6.66	0.079
21	0.056	0.054	0.023	0.075	0.056	0.053	0.07	0.062	0.7	0.2	0.34	0.25	0.12	0.91	1.57	2.82	0.54	0.48	0.44	0.22	3.72	0.46	0.29	0.1	0.57	3.72	0.023
22	0.091	0.059	0.055	0.042	0.049	0.051	0.042	0.37	19.9	9.91	7.46	5.83	4.89	9.82	2.96	1.24	1.4	9.02	11.1	25.8	16	6.61	5.75	2.19	5.86	25.8	0.042
23	1.48	0.27	0.32	0.21	0.47	0.82	1.13	8.84	38.7	41.6	9.55	5.97	2.33	1.23	0.78	1.32	1.53	2.59	4.95	1.82	8.41	5.15	2.57	3.35	6.06	41.6	0.21
24	2.82	0.72	0.53	0.14	0.16	0.32	0.3	0.05	1.68	1.02	0.75	0.2	0.19	0.13	0.42	0.2	0.44	0.34	0.8	10.5	11.3	0.01	0.08	3.55	2.08	11.3	0.13
25	0.00	0.13	0.093	0.008	0.07	0.11	0.007	0.075	0.22	0.18	0.42	0.90	1.3	0.85	0.99	0.95	[RS]	[RS]	[RS]	[RS]	0.08	0.34	0.33	0.28	0.44	1.3	0.067
20	0.14	0.14	0.092	0.15	0.082	0.008	0.00	0.18	0.042	0.000	1.78	0.93	0.73	1.08	0.00	0.41	0.40	0.44	0.064	0.0049	0.059	0.10	0.14	0.041	0.45	0.22	0.041
20	-0.0095	-0.007	0.0028	0.0005	0.029	-0.029	-0.00	-0.09	70.042	42.5				[IT]	0.52	1.72	0.051	1.20	1.004	0.0048	-0.010	65.2	54.6	44.6	22.6	0.32	-0.09
20	25.0	2.51	0.0012	2.00	0.13	2.20	2 70	11.2	22.5	92.0	12	4.02	2 4 4	1.61	11	0.02	0.47	0.71	0.49	0.55	0 12	0.17	0.15	0.12	5 50	22.5	-0.0003
30	0.11	0.12	0.12	0.11	0.12	0.15	0.70	1.01	25.0	227.1	5.17	2.60	5.55	1.01	1.1	0.95	0.51	0.50	4.12	14.2	12.0	12.6	12.2	0.13	6.52	25.0	0.12
50	0.11	0.12	0.15	0.11	0.12	0.15	0.70	1.01	55.0	33.1	5.17	2.00	0.00	1.1	1.21	0.55	0.0	0.00	4.15	14.2	13.5	12.0	12.2	0.7	0.52	55.0	0.11
AVG	2.43	1.12	1.24	0.47	0.3	0.79	1.73	6.03	20.8	11.3	5.36	3.76	3.18	2.89	2.77	2.47	2.91	3.2	3.52	6.13	8.33	6.35	5.35	4.2	3.9		
MAX	25.8	5.6	11.1	2.09	2.16	4.11	18.9	24.8	93.5	42.5	24.1	15	8.06	9.82	8.94	10.6	11.6	10.1	11.1	39	94.9	65.2	54.6	44.6		94.9	
MIN	-0.0085	-0.007	0.0012	-0.031	0.013	-0.029	-0.08	-0.09	-0.042	-0.028	0.34	0.2	0.12	0.13	0.32	0.11	0.051	-0.014	0.0097	0.0048	-0.016	0.019	-0.032	-0.032			-0.09

TOTAL HOURS = 720, NUMBER OF GOOD HOURS = 606, NUMBER OF MISSING HOURS = 114, DATA_CAPTURE = 84.2 (PERCENT)

Variable:	NO	•	Year:	2012 💌	Month:	September	•	Level 3	-	ŧ
-----------	----	---	-------	--------	--------	-----------	---	---------	---	---

- Select variable, year, month and level
- Year will show a list of all the years where the selected Site has data
- It is possible to download the data to a delimited text file

## 5.2 Completeness

ariable	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Q1	Q2	Q3	Q4	Ye
H2S	32.6%	100%	100%	100%	100%	100%	100%	63.8%	11.1%	100%	100%	21.5%	58.2
NO	32.6%	100%	100%	100%	100%	100%	84.2%	60.8%	11.1%	100%	94.8%	20.5%	56.6
NO2	32.6%	100%	100%	100%	100%	100%	100%	64.2%	11.1%	100%	100%	21.6%	58.2
NOx	32.6%	100%	100%	100%	100%	100%	100%	61.3%	11.1%	100%	100%	20.7%	58.0
SO2	32.6%	100%	100%	100%	100%	100%	100%	61.3%	11.1%	100%	100%	20.7%	58.0
						Constantin			2 7 <del></del>	1822.7			
month	s selec	ted.	2012		Month:	ALL		•	Le	vel 3		] details	÷
month	s selec	rear:	2012		Month	ALL	3 		Le	vel 3		] details	÷
month	s selec	Year:	2012		Month	ALL	5		Le	vel 3		] details	¥
month Variable	s selec	tember	2012 Total	Valid	Month	ALL	3		Le	vel 3		] details	+
month Variable H2:	s selec e Sept	Year: ted. tember 100%	2012 Total 4320	Valid 4320	Month	ALL	5		Le	vel 3		] details	÷
month Variable H2: NC	s selec e Sept S	Year: ted. 100% 84.2%	2012 Total 4320 4320	Valid 4320 3636	Month	ALL	5		Le	vel 3		] details	÷
month Variable H2: NO	e Sept	Year: ted. tember 100% 84.2% 100%	2012 Total 4320 4320 4320	Valid 4320 3636 4320	Month	ALL	<u>s</u>		Le	vel 3		] details	+
Wariable H2: NC: NO:	s selec e Sept S 2	Year: tember 100% 84.2% 100% 100%	2012 Total 4320 4320 4320	Valid 4320 3636 4320 4320	Month	ALL	<u>s</u>		Le	vel 3		] details	+
Wariable H2: NC NO: NO: SO:	s selec e Sept S 2 2	Year: tember 100% 84.2% 100% 100%	2012 Total 4320 4320 4320 4320 4320	Valid 4320 3636 4320 4320 4320	Month	ALL			Le	vel 3		] details	÷

- Select year, month, level and details
- Year will show a list of all the years where the selected Site has data
- Details will show the counts behind the percentages
- It is possible to download the data to a delimited text file

## 5.3 Log

Overview	Level 1 -	Level 2 -	Level 3	- Month C	Overview	Co	ompleteness	Log		
Date Range				Paramete	ers Affecte	ed	Flag Descri	ptor		
2012-08-05 0	0:00:00 - 2012-08-	08 23:59:00		NO, NO2			AA-Sample	Pressure	out of Limits	
2012-08-08 (	10:00:00 - 2012-08- 10:00:00 - 2012-08-	10 23:59:00 29 23:59:00		H2S, NO			AJ-Filter Da	end Cap i mage	vissing	
Variable:	ALL		Start:	2012-08-01		Stop:	2012-08-31		Level 2	]

• Select variable, start and stop time and level

## **Appendix - Configuration**

The Quality Control only needs to be configured once in the beginning which can only be done by users who have access to QC site setup. The configuration is accessed through the Quick View Setup configuration.

distant and an		
AQ station	QA/QC	ß
	General	(1), (1), (1)

On the main QC site, the sites can be configured. For the station you wish to configure, select QA/QC from the select list and press the Edit button.

## 1. Site Configuration

evel 2 FI	ags EPA 🔽 Level 3 Flags EPA 🔽	
Displa	y All Variables	
Display	Name	
	230 V bilun	
<b>V</b>	H2S	
	H2S_Max	
	H2S_Min	
	Hamount_Avg	
	Hduration_Avg	
	Hintensity_Avg	
	Hiti í sól	
	Hurð opin	
	Hurð opnuð	
	Innihiti	
	Lofthiti	
	Loftraki	
	Loftþrýstingur	
	Loggerhiti	
	NO	
	NO2	
	NO2_Max	
	NO2_Min	
<b>V</b>	NOx	
	NOx_Max	
	NOx_Min	
	NO_Max	
	NO_Min	
mi	DM 10	

- Select the Level 2 and Level 3 flags
- Select which variables you wish to be able to correct. For example maintenance variables such as battery voltage would not be selected.

PA [Level 2] PA [Level 3]	Code	s		
	Code	Description		F
	AA	Sample Pressure out of Limits	G	× :
	AB	Technician Unavaliable	©.	×
	AC	Construction/Repairs in Area	©.	×
	AD	Shelter Storm Damage	ß	×
	AE	Shelter Temperature Outside Limits	Ø	×
	AF	Scheduled but not Collected	g	×
	AG	Sample Time out of Limits	Ø	×
	AH	Sample Flow Rate out of Limits	ß	×
	AI	Insufficient Data (cannot calculate)	G	×
	AJ	Filter Damage	G	×

Users that have the QC flag setup access, can edit the Flag Configuration.

EPA is the default flag. It's possible to add new flag groups if necessary.