



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



ETS INGENIEROS DE CAMINOS,
CANALES Y PUERTOS

Trabajo de final de grado

Adecuación de la producción energética de las centrales hidroeléctricas al cumplimiento de los caudales ecológicos en la Demarcación del Júcar. Cabecera río Júcar.

Anejo I: Datos de partida



Índice

1	Introducción.....	1
2	Información sobre las centrales.	3
2.1	Ortofotos de las centrales hidroeléctricas	3
2.2	Ortofotos de las estaciones de aforo ROEA.....	8
3	Características ecológicas e hidrológicas del río.	11
3.1	Datos hidrológicos.....	11
3.1.1	Hidrograma masa de agua 18.04	11
3.1.2	Hidrograma masa de agua 18.05	12
3.1.3	Hidrograma masa de agua 18.06	13
3.2	Datos ecológicos.....	14
4	Características hidroeléctricas de las centrales	17
4.1	Datos hidroeléctricos.....	17
5	Reportaje fotográfico.....	23
5.1	Nacimiento del río Júcar.....	23
5.2	Curso del río y centrales hidroeléctricas	26
6	Resumen.....	51
7	Referencias.....	53

Índice de figuras

Figura 1. Esquema del tramo del río con tomas y restituciones escala 1:300.000	3
Figura 2. Leyenda de símbolos con los puntos de interés	4
Figura 3. Ortofoto de la central hidroeléctrica de La Toba y el embalse de La Toba escala 1:10.000	4
Figura 4. Ortofoto de la Laguna de Uña escala 1:8.000	5
Figura 5. Ortofoto de la central hidroeléctrica de Villalba y el depósito El Salto escala 1:5.000	5
Figura 6. Ortofoto de la central hidroeléctrica de La Torre escala 1:5.000 ...	6
Figura 7. Ortofoto de la central hidroeléctrica de Las Grajas escala 1:5.0006	6
Figura 8. Ortofoto de la central hidroeléctrica de El Batán escala 1:5.000 ...	7
Figura 9. Ortofoto de la central hidroeléctrica de Molino de Santiago y ciudad de Cuenca escala 1:5.000	7
Figura 10. Ortofoto de la central hidroeléctrica de El Castellar 1:5.000	8
Figura 11. Ortofoto de la estación de aforo Venta de Juan Romero y embalse La Toba escala 1:20.000	9
Figura 12. Ortofoto de la estación de aforo de Cuenca y ciudad de Cuenca escala 1:10.000	9
Figura 13. Ortofoto de la estación de aforo San Lorenzo Parrilla y embalse de Alarcón escala 1:20.000	9
Figura 14. Serie histórica de caudales diarios de salidas totales de La Toba de 30 años.....	11
Figura 15. Curva de caudales clasificados para las salidas totales de La Toba	12
Figura 16. Serie histórica de caudales diarios circulantes de Cuenca de 30 años	12
Figura 17. Curva de caudales clasificados para el aforo de Cuenca.....	13
Figura 18. Serie histórica de caudales diarios circulantes de San Lorenzo Parrilla de 30 años	13
Figura 19. Curva de caudales clasificados para el aforo de Castellar.....	14
Figura 20. Esquema de la determinación del caudal ecológico mínimo	15
Figura 21. Especies autóctonas de las masas de agua estudiadas Loina, Barbo, Trucha y Cacho	15
Figura 22. Curva HPU máxima para la trucha común	16
Figura 23. Ficha técnica para la central hidroeléctrica La Toba	18
Figura 24. Ficha técnica para la central hidroeléctrica de Villalba	18
Figura 25. Ficha técnica para la central hidroeléctrica Las Grajas	19
Figura 26. Ficha técnica para la central hidroeléctrica El Batán.....	20
Figura 27. Ficha técnica para la central hidroeléctrica Molino de Santiago	21
Figura 28. Ficha técnica para la central hidroeléctrica El Castellar	22
Figura 29. Manantiales del estrecho se San Blas, Tragacete	24
Figura 30. Nacimiento del río Júcar en el estrecho de San Blas	24



Figura 31. Agua brotando del manantial, incorporándose al cauce del río.	24
Figura 32. Estrecho de San Blas, Tragacete.....	25
Figura 33. Distintos puntos próximos donde brota el manantial	25
Figura 34. Embalse de La Toba	26
Figura 35. Embalse de La Toba y presa de La Toba	26
Figura 36. Aliviadero superficial de la presa de La Toba.....	27
Figura 37. Central hidroeléctrica de pie de presa La Toba.....	27
Figura 38. Cuerpo de presa de La Toba	28
Figura 39. Vista alternativa del embalse de La Toba	28
Figura 40. Primer grupo de edificios de la central hidráulica abandonada de la Laguna de Uña	29
Figura 41. Segundo grupo de edificios de la central hidráulica abandonada de la Laguna de Uña	29
Figura 42. Río Júcar a su paso por las proximidades de la laguna de Uña	30
Figura 43. Fuertes corrientes en el río Júcar al paso entre cañones.....	30
Figura 44. Aguas del río Júcar de tono más oscuro por el aumento del transporte de sedimentos	31
Figura 45. Canal derivador entre la Laguna de Uña y la central de Villalba	31
Figura 46. Sección del canal derivador	32
Figura 47. Vista posterior de la central hidráulica de la Laguna de Uña	32
Figura 48. Entrada al canal derivador entre la Laguna de Uña y la central de Villalba.....	33
Figura 49. Compuertas de entrada al canal derivador	33
Figura 50. Laguna de Uña.....	34
Figura 51. Entrada del canal de derivación entre la Laguna de Uña y el río Júcar	34
Figura 52. Canal de derivación entre la Laguna de Uña y el río Júcar.....	35
Figura 53. Compuertas del canal de unión entre la Laguna de Uña y el río Júcar	35
Figura 54. Proximidades a la Laguna de Uña	36
Figura 55. Poblado el Salto de Villalba.....	36
Figura 56. Tuberías forzadas hasta la central hidroeléctrica de Villalba	37
Figura 57. Central hidroeléctrica de Villalba.....	37
Figura 58. Iglesia-capilla y residencias del Poblado del Salto de Villalba ..	38
Figura 59. Río Júcar aguas arriba de la restitución de la central de Villalba	38
Figura 60. Pozas naturales que se forman en los barrancos cercanos a la central de Villalba	39
Figura 61. Conjunto de grandes rocas encontradas en el curso del río Júcar	39
Figura 62. Desfiladeros del Júcar en las inmediaciones del Poblado del Salto de Villalba.....	40
Figura 63. Desfiladero con el Deposito del Salto a la izquierda de la imagen	40
Figura 64. Depósito de El Salto.....	41



Figura 65. Vista alternativa de Poblado del Salto de Villalba y la central de Villalba.....	41
Figura 66. Vista alternativa de la central de Villalba y las tuberías forzadas	42
Figura 67. Vista alternativa de las tuberías forzadas.....	42
Figura 68. Río Júcar y canal de derivación para la central Las Grajas	43
Figura 69. Río Júcar a su paso por el club de piragüismo Cuenca	43
Figura 70. Canal de derivación para la toma de la central hidroeléctrica de Las Grajas.....	44
Figura 71. Compuertas de la toma de la central hidroeléctrica Las Grajas	44
Figura 72. Río Júcar aguas arriba de la central de Las Grajas	45
Figura 73. Paraje y vegetación en el entorno de la central de Las Grajas .	45
Figura 74. Río Júcar a su paso por El Batán, cerca del paraje conocido como Playas del Júcar	46
Figura 75. Puente de San Antón y Presa de San Antón o Molino de Santiago	46
Figura 76. Presa de San Antón o Molino de Santiago.....	47
Figura 77. Compuertas de toma y central hidroeléctrica Molino de Santiago	47
Figura 78. Vista aguas abajo del puente de San Antón y Presa de San Antón o Molino de Santiago	48
Figura 79. Restitución de la central hidroeléctrica Molino de Santiago al río Júcar	48
Figura 80. Azud El Sergal.....	49
Figura 81. Estación de aforo ROEA Cuenca.....	49
Figura 82. Vista alternativa de la estación de aforo ROEA Cuenca	50
Figura 83. Río Júcar aguas debajo de la ciudad de Cuenca.....	50

Índice de tablas

Tabla 1. Masas de agua de la con la categoría río en el tramo de estudio (DHJ).....	11
Tabla 2. Centrales hidroeléctricas del tramo estudiado afectadas por los caudales ecológicos.....	11
Tabla 3. Centrales hidroeléctricas del tramo estudiado afectadas por los caudales ecológicos.....	14
Tabla 4. Masas de agua con caudal mínimo y máximo en el tramo del estudio.....	14



1 Introducción.

El primer paso en la elaboración de un proyecto es la búsqueda de datos de partida. Ellos proporcionan información básica con la que empezar a trabajar y que será necesaria para la elaboración de los cálculos.

Por este motivo, el presente anejo recogerá los tres puntos básicos en el desarrollo del estudio para cada central hidroeléctrica. Como queda recogido en la memoria estos son los datos hidroeléctricos, datos ecológicos y datos hidrológicos, expuestos anteriormente durante el desarrollo de la metodología. Cabe destacar que también se recogerá la ubicación geográfica de las centrales hidroeléctricas, mediante el empleo de ortofotos PNOA de máxima actualidad. Su empleo también servirá para referenciar la Laguna de Uña y las estaciones de aforo ROEA, empleadas para obtener los caudales diarios.

También se recoge un reportaje fotográfico de campo, con puntos tratados en la memoria e imágenes adicionales de la situación del río Júcar. Con las fotografías se consigue profundizar más en el entorno de la serranía de Cuenca. Durante la elaboración del anejo, se recogerá únicamente los datos empleados, la explicación de ellos se efectúa dentro de la memoria.

2 Información sobre las centrales.

2.1 Ortofotos de las centrales hidroeléctricas

Para la localización geográfica de las centrales, se dispondrán ortofotos elaboradas mediante la herramienta informática Arcmap. En su elaboración, se han empleado las ortofotos PNOA de máxima actualidad del Centro Nacional de Información Geográfica. En ellas se han emplazado, por coordenadas referenciadas de la Confederación Hidrográfica del Júcar, los elementos principales de las centrales hidroeléctricas. Se indicará tanto el emplazamiento de los puntos de toma y restituciones, como las principales barreras transversales encontradas en el cauce del río.



Figura 1. Esquema del tramo del río con tomas y restituciones escala 1:300.000

A modo de representación gráfica, se ha adoptado el conjunto de símbolos siguiente, mostrado en la figura adjunta para ubicar los puntos de interés.

Legenda:






-  Central hidroeléctrica
-  Punto de toma
-  Punto de restitución
-  Estación aforo
-  Presa/Azud

Figura 2. Legenda de símbolos con los puntos de interés



Figura 3. Ortofoto de la central hidroeléctrica de La Toba y el embalse de La Toba escala 1:10.000



Figura 4. Ortofoto de la Laguna de Uña escala 1:8.000

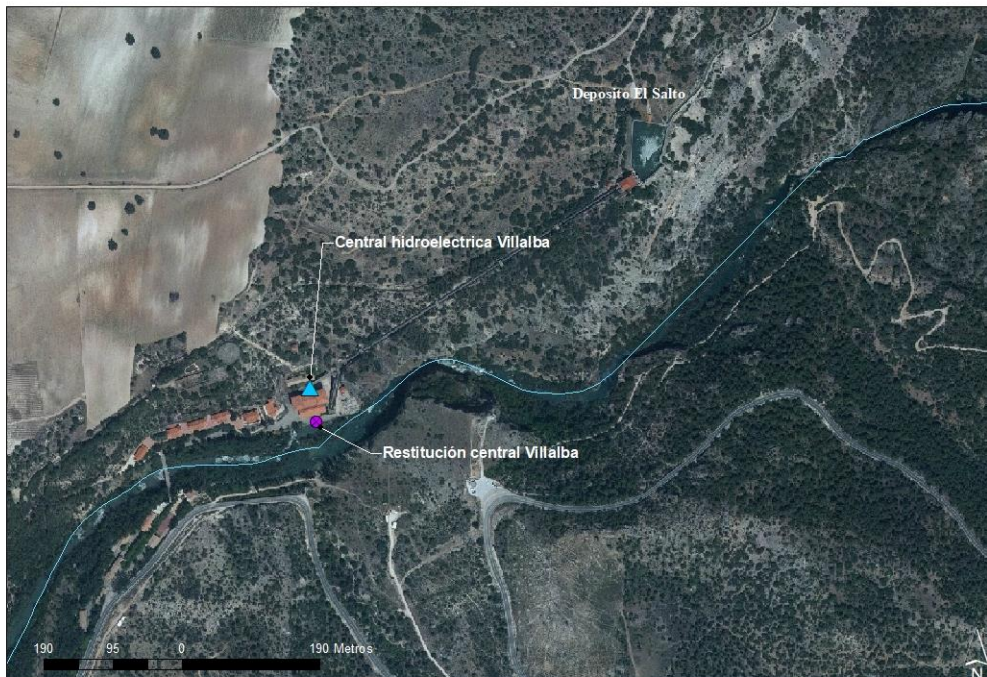


Figura 5. Ortofoto de la central hidroeléctrica de Villalba y el depósito El Salto escala 1:5.000

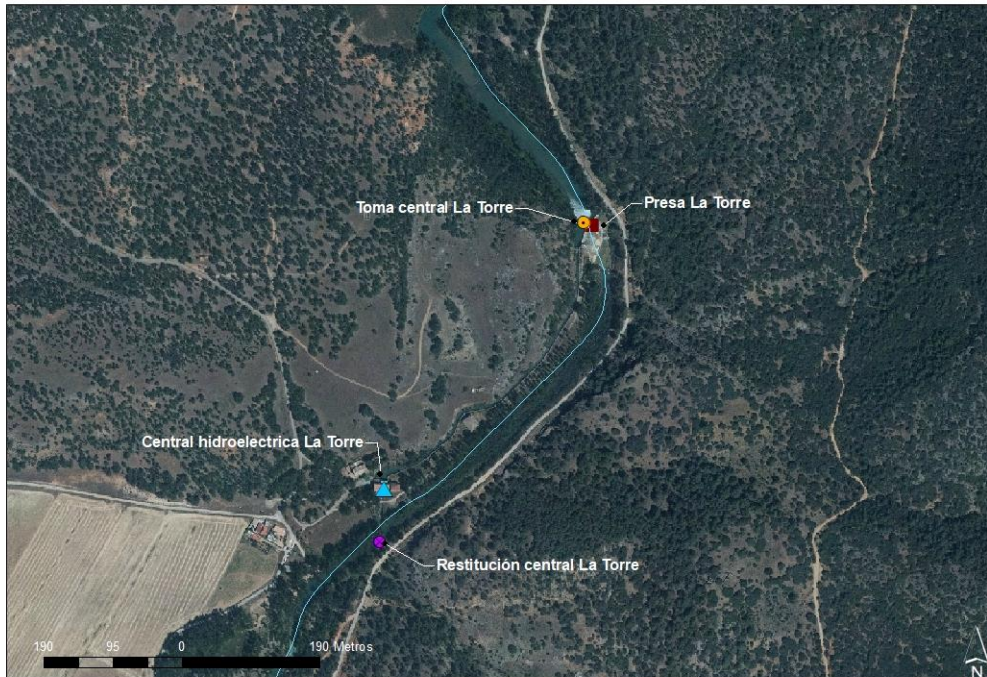


Figura 6. Ortofoto de la central hidroeléctrica de La Torre escala 1:5.000



Figura 7. Ortofoto de la central hidroeléctrica de Las Grajas escala 1:5.000



Figura 8. Ortofoto de la central hidroeléctrica de El Batán escala 1:5.000



Figura 9. Ortofoto de la central hidroeléctrica de Molino de Santiago y ciudad de Cuenca escala 1:5.000



Figura 10. Ortofoto de la central hidroeléctrica de El Castellar 1:5.000

2.2 Ortofotos de las estaciones de aforo ROEA



Figura 11. Ortofoto de la estación de aforo Venta de Juan Romero y embalse La Toba escala 1:20.000



Figura 12. Ortofoto de la estación de aforo de Cuenca y ciudad de Cuenca escala 1:10.000



Figura 13. Ortofoto de la estación de aforo San Lorenzo Parrilla y embalse de Alarcón escala 1:20.000

3 Características ecológicas e hidrológicas del río.

3.1 Datos hidrológicos

Para los datos hidrológicos, se van a presentar las curvas de caudales clasificados para cada aforo y para las salidas de La Toba. Estos van a estar compuestos por la serie de datos histórica de 30 años de caudales circulantes.

Para el empleo de los datos, se ha empleado la Red Oficial de Estaciones de Aforo, así como el Sistema Automático de Información Hidrológica y el GeshidroLAN.

Código UE	Código	Nombre	Ecotipo	X	Y	Naturaleza	Área (km ²)	Long (km)
ES080MSPF18.03	18.03	E. La Toba	E-T07	-1,91	40,21	Muy modificada	0,98	
ES080MSPF18.04	18.04	Río Júcar: E. La Toba - Az. Villalba	R-T12	-2,04	40,25	Natural		29,55
ES080MSPF18.05	18.05	Río Júcar: Az. Villalba - Río Huécar	R-T12	-2,14	40,16	Natural		62,26
ES080MSPF18.06	18.06	Río Júcar: Río Huécar - E. Alarcón	R-T12	-2,25	39,99	Natural		95,78

Tabla 1. Masas de agua de la con la categoría río en el tramo de estudio (DHJ)

Ámbito	Nombre de la Central	Qmin (m3/s)	Qmax (m3/s)	Tasa Cambio (m3/s/h)	
Júcar Alto:	La Toba	0,34	No procede	No procede	No procede
	Villalba	No procede	No procede	No procede	No procede
	Las Grajas, El Batán	0,62	9	4,89	-2,01
	Molino de Santiago, El Castellar	0,62	No evaluado (9)*	4,89	-2,01

* Dato orientativo de la masa de agua más próxima

Tabla 2. Centrales hidroeléctricas del tramo estudiado afectadas por los caudales ecológicos

3.1.1 Hidrograma masa de agua 18.04

El hidrograma de la masa de agua 18.04 afectaría a las centrales hidroeléctricas de La Toba y Villalba. Este corresponde con las salidas totales efectuadas por la presa de La Toba.

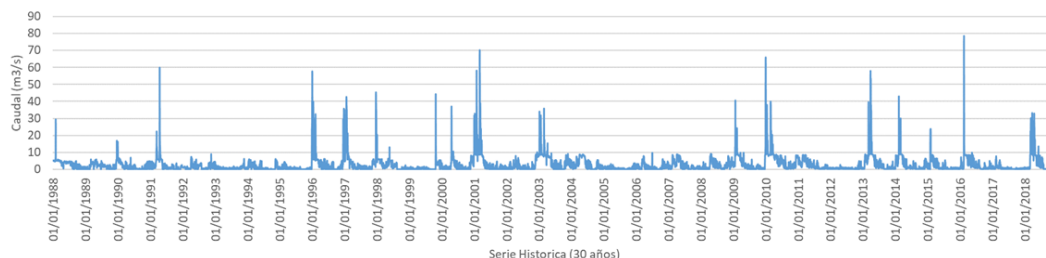


Figura 14. Serie histórica de caudales diarios de salidas totales de La Toba de 30 años

Empleando esta serie histórica se obtiene la curva de caudales clasificados ordenando de mayor a menor los caudales y asociándoles una probabilidad de ocurrencia mediante la función empírica Weibull. A continuación, se puede observar la CCC para la primera masa de agua.

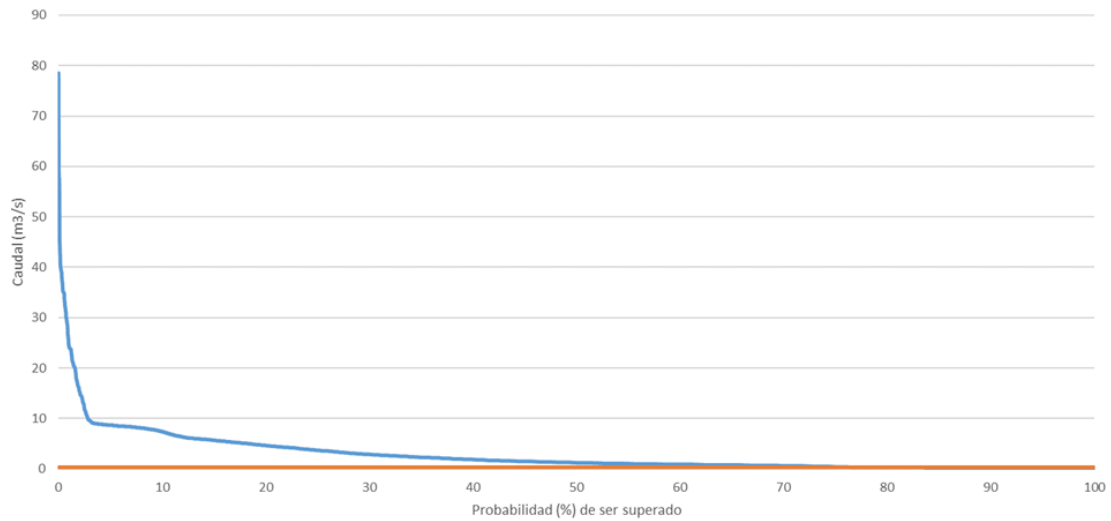


Figura 15. Curva de caudales clasificados para las salidas totales de La Toba

3.1.2 Hidrograma masa de agua 18.05

El hidrograma de la masa de agua 18.05 afectaría a las centrales hidroeléctricas de La Torre, Las Grajas, El Batán y Molino de Santiago. Este corresponde con los caudales circulantes por el aforo de Cuenca.

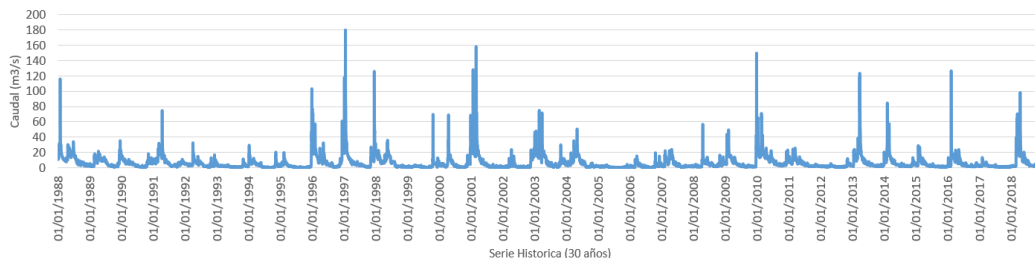


Figura 16. Serie histórica de caudales diarios circulantes de Cuenca de 30 años

Empleando esta serie histórica se obtiene la curva de caudales clasificados ordenando de mayor a menor los caudales y asociándoles una probabilidad de ocurrencia mediante la función empírica Weibull. A continuación, se puede observar la CCC para la segunda masa de agua.

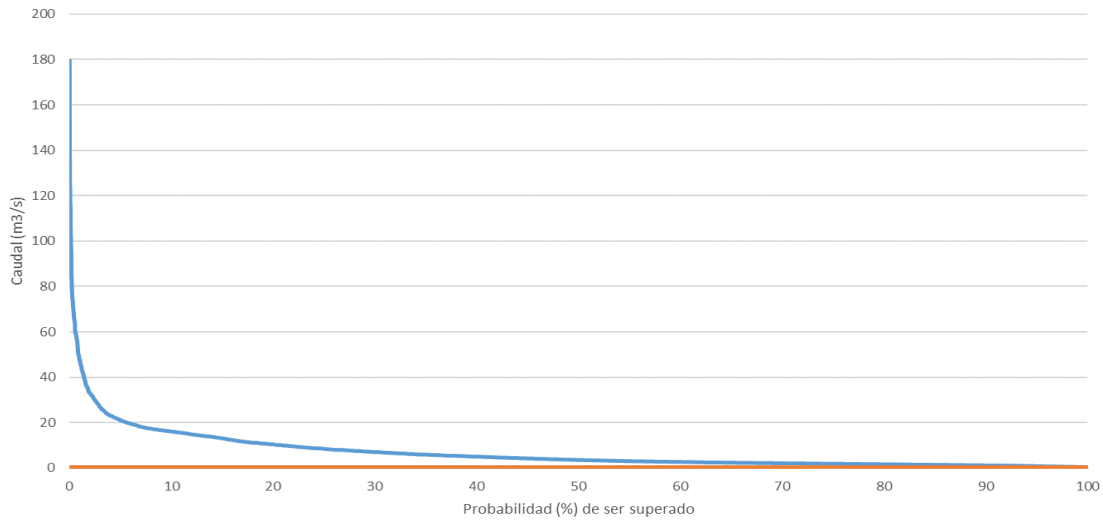


Figura 17. Curva de caudales clasificados para el aforo de Cuenca

3.1.3 Hidrograma masa de agua 18.06

El hidrograma de la masa de agua 18.06 afectaría a la central hidroeléctrica El Castellar. Este corresponde con los caudales circulantes por el aforo de Castellar.

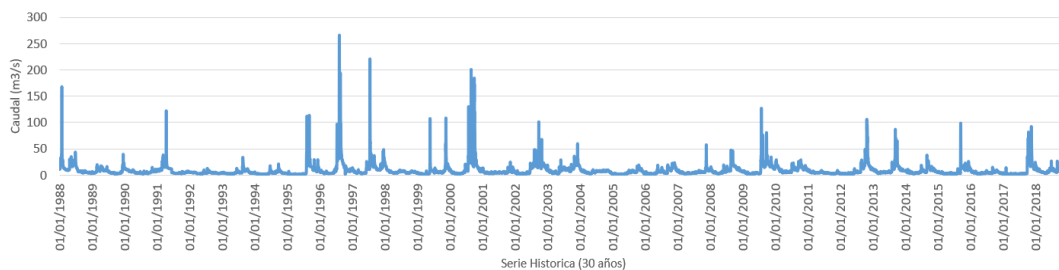


Figura 18. Serie histórica de caudales diarios circulantes de San Lorenzo Parrilla de 30 años

Empleando esta serie histórica se obtiene la curva de caudales clasificados ordenando de mayor a menor los caudales y asociándoles una probabilidad de ocurrencia mediante la función empírica Weibull. A continuación, se puede observar la CCC para la tercera masa de agua.

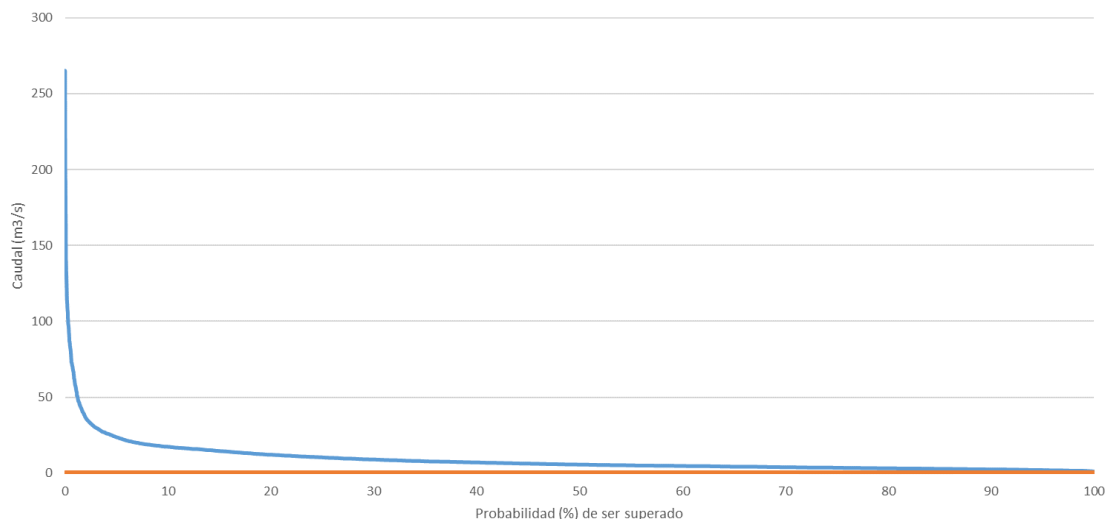


Figura 19. Curva de caudales clasificados para el aforo de Castellar

3.2 Datos ecológicos

Ámbito	Nombre de la Central	Qmin (m3/s)	Qmax (m3/s)	Tasa Cambio (m3/s/h)	
Júcar Alto:	La Toba	0,34	No procede	No procede	No procede
	Villalba	No procede	No procede	No procede	No procede
	Las Grajas, El Batán	0,62	9	4,89	-2,01
	Molino de Santiago, El Castellar	0,62	No evaluado (9)*	4,89	-2,01

* Dato orientativo de la masa de agua más próxima

Tabla 3. Centrales hidroeléctricas del tramo estudiado afectadas por los caudales ecológicos

Código masa de agua	Nombre masa de agua		Espacio con protección	Caudal mínimo (m³/s)		Hidrorregión	Caudal máximo (m³/s)												Tasa de cambio	
				Situación ordinaria	Situación de sequía		Oct	Nov	Dic	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Ascendente (m³/s/h)	Descendente (m³/s/h)
18.03	E. La Toba		Sí	-	-	2													4,89	-2,01
18.04	Río Júcar: E. La Toba - Az. Villalba	E. La Toba - Los Cortados	Sí	0,34	**	2													4,89	-2,01
		Los Cortados - Az. Villalba	Sí	0,48	**	2														4,89
18.05	Río Júcar: Az. Villalba - Río Huécar		Sí	0,62	**	2	9	9	9	9	10	10	11	9	9	9	9	9	4,89	-2,01
18.06	Río Júcar: Río Huécar - E. Alarcón		Sí	0,62	**	2													4,89	-2,01

Tabla 4. Masas de agua con caudal mínimo y máximo en el tramo del estudio

Los caudales ecológicos mínimos, se han determinado en base a los métodos hidrobiológicos con la especie más restrictiva del tramo en cuestión. En el esquema de la siguiente figura se puede observar el método para la determinación de estos.

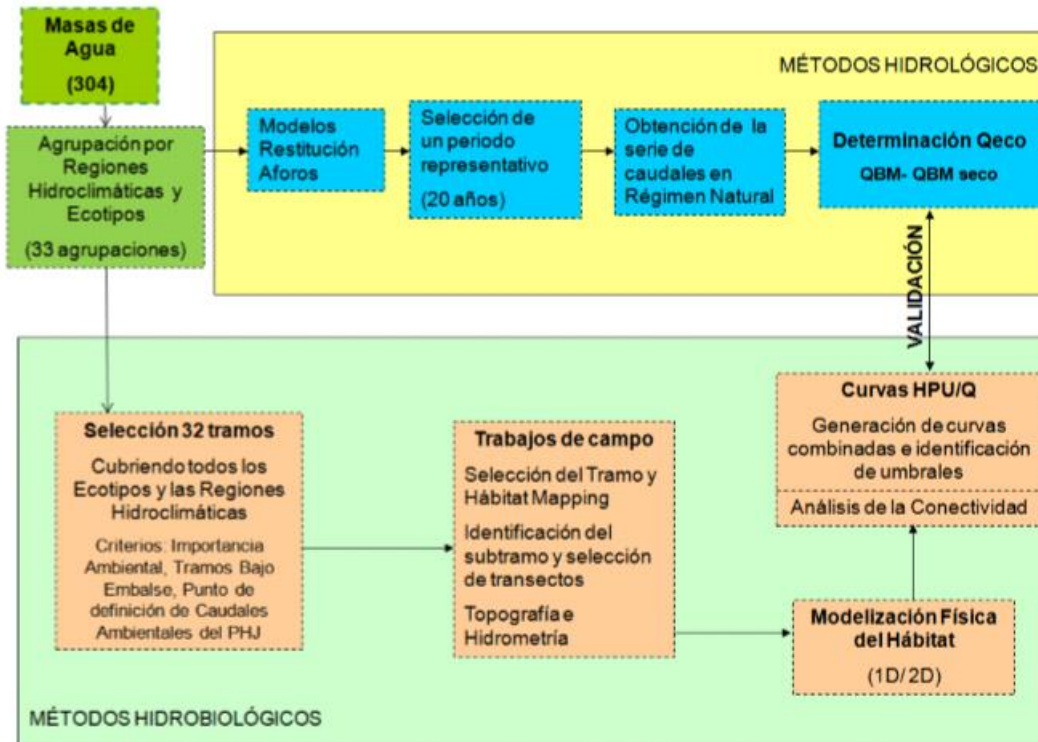


Figura 20. Esquema de la determinación del caudal ecológico mínimo

Las especies que encontramos en nuestro hábitat de estudio son las siguientes:



Figura 21. Especies autóctonas de las masas de agua estudiadas Loina, Barbo, Trucha y Cacho

De las cuatro especies, la más restrictiva es la trucha común al ser la especie que necesita de mayor caudal en el río.

Como indicador de habitabilidad, se encuentran desarrolladas por la Confederación Hidrográfica del Júcar la siguiente curva de Hábitat Potencial Útil para la trucha común.

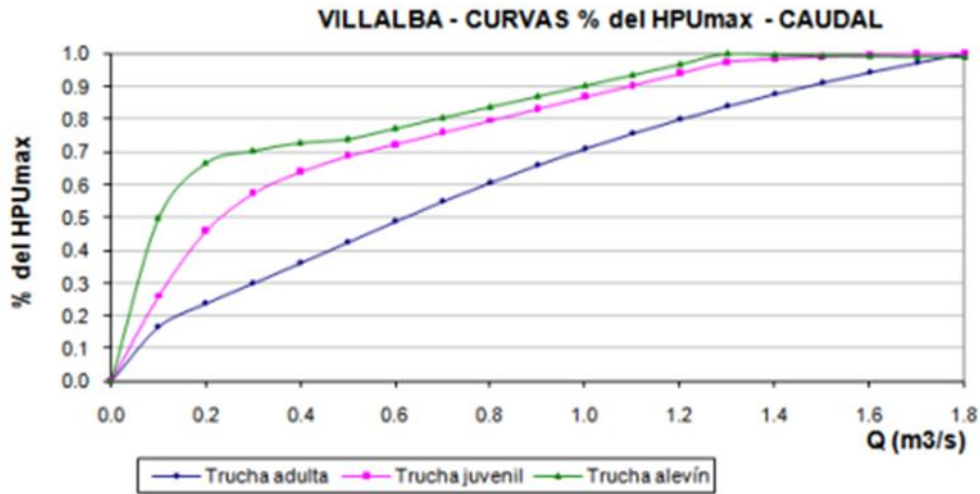


Figura 22. Curva HPU máxima para la trucha común

4 Características hidroeléctricas de las centrales

A continuación, se mostrarán las fichas identificativas del parque hidroeléctrico del Alto Júcar. Están extraídas del Plan Hidrológico de cuenca (2015-2021), concretamente del Anejo 3-Apéndice 3. Parque hidroeléctrico.

4.1 Datos hidroeléctricos

1. IDENTIFICACIÓN							
Código: 0501	Nombre: LA TOBA						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16219 Uña						
Titular:	Gas Natural SGD S.A.						
Identificación geográfica de la factoría (UTM)	X: 591.801	Y: 4.451.871	Masa de origen	18.03			
			Masas de destino	18.04			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC	Salto bruto (m)			
	Grupo 1:	0,775	RO1-0879				
Rég. Ord. Embalse				16,8			
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 591.830 Y: 4.451.880	Identificación geográfica de los puntos de vertido (UTM)	1	X: 591.793 Y: 4.451.865	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo		Turbinado	Canal			
			5,7				

Figura 23. Ficha técnica para la central hidroeléctrica La Toba

1. IDENTIFICACIÓN							
Código: 0502	Nombre: VILLALBA						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16245 Villalba de la Sierra						
Titular:	Gas Natural SGD S.A.						
Identificación geográfica de la factoría (UTM)	X: 578.850	Y: 4.454.820	Masa de origen	18.03			
			Masas de destino	18.05			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC	Salto bruto (m)			
	Grupo 1:	11,05	RO1-0931				
	Grupo 2:		RO1-0932				
Rég. Ord. Embalse				152,2			
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 591.793 Y: 4.451.865	Identificación geográfica de los puntos de vertido (UTM)	1	X: 578.860 Y: 4.454.773	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo	Turbinado	Canal				
		10					

Figura 24. Ficha técnica para la central hidroeléctrica de Villalba

1. IDENTIFICACIÓN							
Código: 0504	Nombre: LAS GRAJAS						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16078 Cuenca						
Titular:	José Fernando Díaz-Cordobés Udaeta						
Identificación geográfica de la factoría (UTM)	X: 574.134	Y: 4.439.020	Masa de origen	18.05			
			Masas de destino	18.05			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC	Salto bruto (m)			
	Grupo 1:	0,256	RO1-0238				
	Grupo 2:	0,168	RO1-0239	7			
Rég. Ord. Fluyente							
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 574.347 Y: 4.439.091	Identificación geográfica de los puntos de vertido (UTM)	1	X: 574.083 Y: 4.439.023	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo	Turbinado	Canal				
		9,8					

Figura 25. Ficha técnica para la central hidroeléctrica Las Grajas

1. IDENTIFICACIÓN							
Código: 0505	Nombre: EL BATÁN						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16078 Cuenca						
Titular:	José Fernando Díaz-Cordobés Udaeta						
Identificación geográfica de la factoría (UTM)	X: 574.449	Y: 4.437.691	Masa de origen	18.05			
			Masas de destino	18.05			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC	Salto bruto (m)			
	Grupo 1:	0,316	RO1-0183				
Rég. Ord. Fluyente				3,8			
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 574.392 Y: 4.437.924	Identificación geográfica de los puntos de vertido (UTM)	1	X: 574.423 Y: 4.437.646	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo	Turbinado	Canal	Retorno			
	Estado actual	5,5					

Figura 26. Ficha técnica para la central hidroeléctrica El Batán



1. IDENTIFICACIÓN							
Código: 0506	Nombre: MOLINO DE SANTIAGO						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16078 Cuenca						
Titular:	José Fernando Díaz-Cordobés Udaeta						
Identificación geográfica de la factoría (UTM)	X: 573.569	Y: 4.437.002	Masa de origen	18.05			
			Masas de destino	18.06			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC	Salto bruto (m)			
	Grupo 1:	0,2				RO1-0271	
Rég. Ord. Fluyente				3,5			
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 573.618 Y: 4.437.000	Identificación geográfica de los puntos de vertido (UTM)	1	X: 573.461 Y: 4.437.048	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo	Turbinado	Canal				
		10					

Figura 27. Ficha técnica para la central hidroeléctrica Molino de Santiago



1. IDENTIFICACIÓN							
Código: 0507	Nombre: EL CASTELLAR						
Sistema de explotación:	Júcar						
Río:	Río Júcar						
Municipio:	16152 La Parra de las Vegas						
Titular:	Saltos del Júcar, S.L.						
Identificación geográfica de la factoría (UTM)	X: 562.973	Y: 4.415.482	Masa de origen	18.06			
			Masas de destino	18.06			
2. CARACTERÍSTICAS ESTRUCTURALES							
Tecnología:	Potencia instalada (MW)		Clave Registro MITYC		Salto bruto (m)		
	Grupo 1:	0,200	RO1-0186				
	Grupo 2:	0,300	RO1-0187		8,2		
Rég. Ord. Fluyente							
3. DEMANDA							
Identificación geográfica de los puntos de extracción (UTM)	1	X: 563.014 Y: 4.415.728	Identificación geográfica de los puntos de vertido (UTM)	1	X: 562.969 Y: 4.156.468	4	X: Y:
	2	X: Y:		2	X: Y:	5	X: Y:
				3	X: Y:	6	X: Y:
Demanda y retorno (m³/s)	Caudal máximo		Turbinado	Canal			
			10,16	10,2			

Figura 28. Ficha técnica para la central hidroeléctrica El Castellar

5 Reportaje fotográfico.

5.1 Nacimiento del río Júcar



Figura 29. Manantiales del estrecho se San Blas, Tragacete



Figura 30. Nacimiento del río Júcar en el estrecho de San Blas



Figura 31. Agua brotando del manantial, incorporándose al cauce del río



Figura 32. Estrecho de San Blas, Tragacete



Figura 33. Distintos puntos próximos donde brota el manantial

5.2 Curso del río y centrales hidroeléctricas



Figura 34. Embalse de La Toba



Figura 35. Embalse de La Toba y presa de La Toba



Figura 36. Aliviadero superficial de la presa de La Toba



Figura 37. Central hidroeléctrica de pie de presa La Toba



Figura 38. Cuerpo de presa de La Toba



Figura 39. Vista alternativa del embalse de La Toba



Figura 40. Primer grupo de edificios de la central hidráulica abandonada de la Laguna de Uña



Figura 41. Segundo grupo de edificios de la central hidráulica abandonada de la Laguna de Uña



Figura 42. Río Júcar a su paso por las proximidades de la laguna de Uña

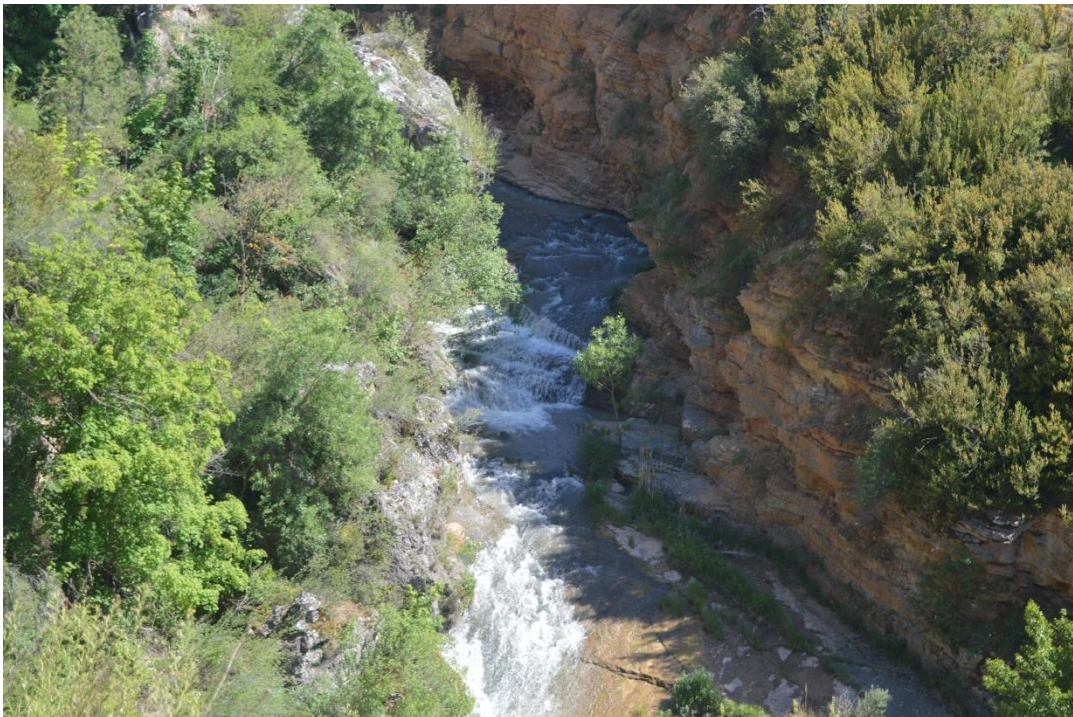


Figura 43. Fuertes corrientes en el río Júcar al paso entre cañones



Figura 44. Aguas del río Júcar de tono más oscuro por el aumento del transporte de sedimentos



Figura 45. Canal derivador entre la Laguna de Uña y la central de Villalba



Figura 46. Sección del canal derivador



Figura 47. Vista posterior de la central hidráulica de la Laguna de Uña



Figura 48. Entrada al canal derivador entre la Laguna de Uña y la central de Villalba



Figura 49. Compuertas de entrada al canal derivador



Figura 50. Laguna de Uña



Figura 51. Entrada del canal de derivación entre la Laguna de Uña y el río Júcar



Figura 52. Canal de derivación entre la Laguna de Uña y el río Júcar



Figura 53. Compuertas del canal de unión entre la Laguna de Uña y el río Júcar



Figura 54. Proximidades a la Laguna de Uña



Figura 55. Poblado el Salto de Villalba



Figura 56. Tuberías forzadas hasta la central hidroeléctrica de Villalba

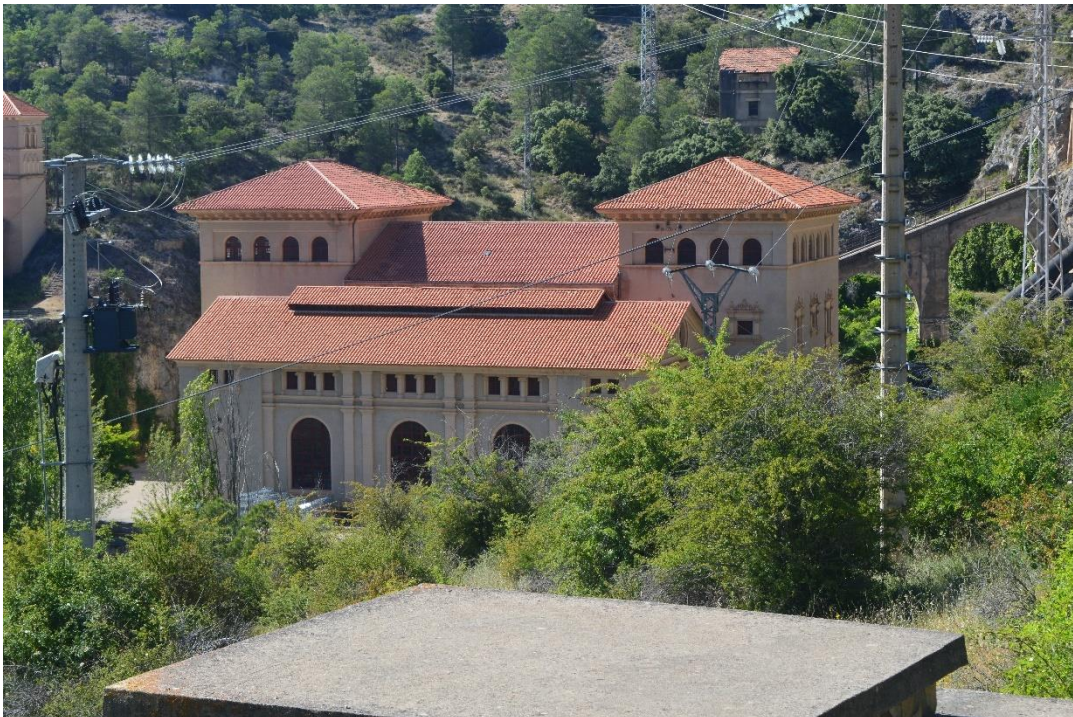


Figura 57. Central hidroeléctrica de Villalba



Figura 58. Iglesia-capilla y residencias del Poblado del Salto de Villalba



Figura 59. Río Júcar aguas arriba de la restitución de la central de Villalba



Figura 60. Pozas naturales que se forman en los barrancos cercanos a la central de Villalba

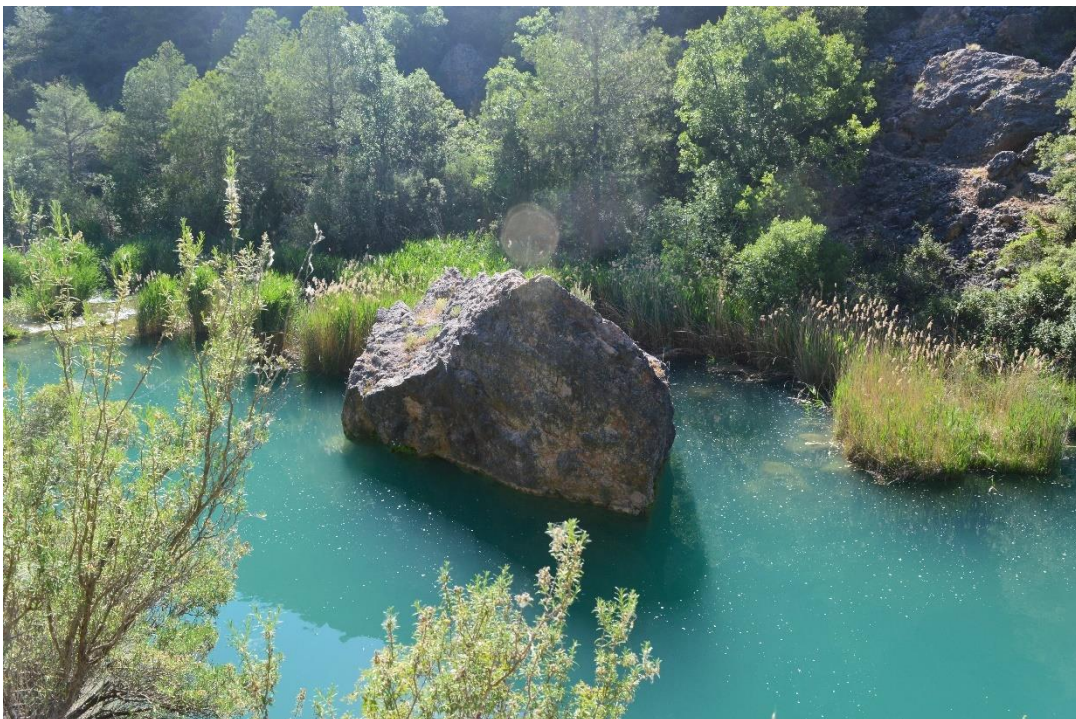


Figura 61. Conjunto de grandes rocas encontradas en el curso del río Júcar



Figura 62. Desfiladeros del Júcar en las inmediaciones del Poblado del Salto de Villalba



Figura 63. Desfiladero con el Deposito del Salto a la izquierda de la imagen



Figura 64. Depósito de El Salto



Figura 65. Vista alternativa de Poblado del Salto de Villalba y la central de Villalba



Figura 66. Vista alternativa de la central de Villalba y las tuberías forzadas

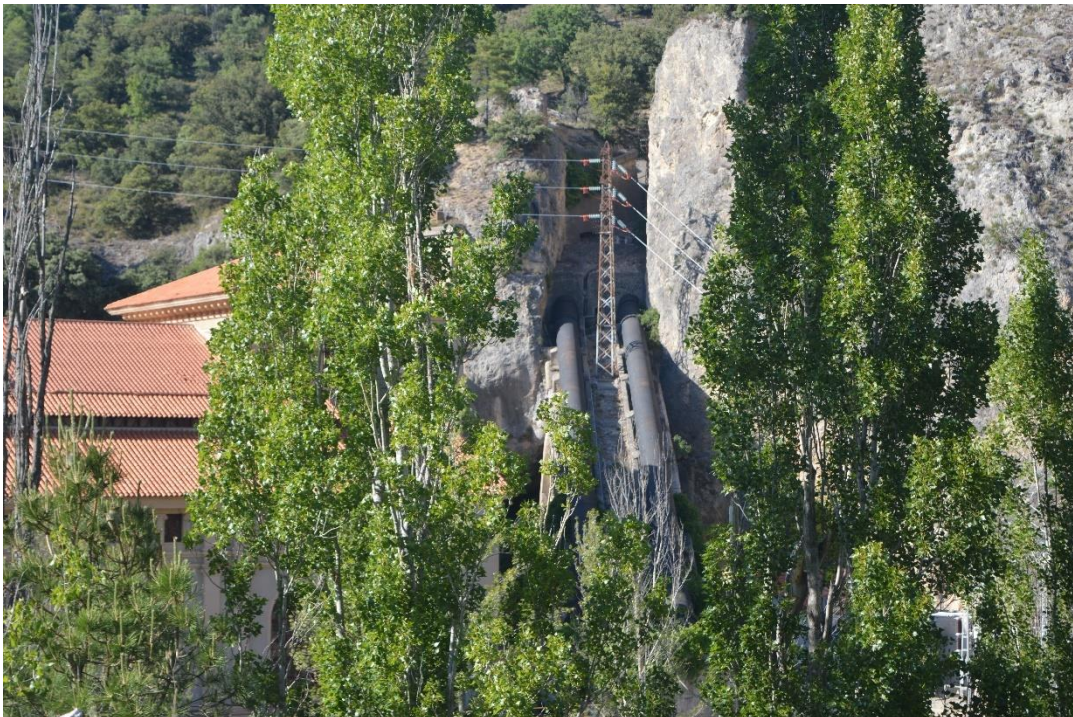


Figura 67. Vista alternativa de las tuberías forzadas



Figura 68. Río Júcar y canal de derivación para la central Las Grajas



Figura 69. Río Júcar a su paso por el club de piragüismo Cuenca



Figura 70. Canal de derivación para la toma de la central hidroeléctrica de Las Grajas



Figura 71. Compuertas de la toma de la central hidroeléctrica Las Grajas



Figura 72. Río Júcar aguas arriba de la central de Las Grajas



Figura 73. Paraje y vegetación en el entorno de la central de Las Grajas



Figura 74. Río Júcar a su paso por El Batán, cerca del paraje conocido como Playas del Júcar



Figura 75. Puente de San Antón y Presa de San Antón o Molino de Santiago



Figura 76. Presa de San Antón o Molino de Santiago



Figura 77. Compuertas de toma y central hidroeléctrica Molino de Santiago



Figura 78. Vista aguas abajo del puente de San Antón y Presa de San Antón o Molino de Santiago



Figura 79. Restitución de la central hidroeléctrica Molino de Santiago al río Júcar



Figura 80. Azud El Sergal



Figura 81. Estación de aforo ROEA Cuenca



Figura 82. Vista alternativa de la estación de aforo ROEA Cuenca



Figura 83. Río Júcar aguas debajo de la ciudad de Cuenca

6 Resumen.

En base a los datos de partida, obtenidos en distintas fuentes, se dispondrá para cada central unas simulaciones con los rangos de caudales ecológicos mínimos, para ver la variación de las producciones conforme se dispone de un mayor caudal circulando por el río.

Para ello se ha dispuesto mediante la distribución empírica unas curvas de caudales clasificados asociadas a cada central. Estas curvas se extraen de la serie histórica de caudales con un periodo de 30 años. Mediante las fichas técnicas, se han extraído los máximos caudales que son capaces de turbinar las centrales hidroeléctricas.

El rango que las centrales puedan turbinar ira marcado por los datos ambientales de caudales ecológicos mínimos extraídos de la PHJ 2015 y como límite superior serán los caudales máximos turbinables. Con estos datos se simulará la producción potencial tanto para caudal ecológico nulo como para el actual. De igual modo, se empleará para estudiar rangos de caudales mayores.

Esta búsqueda de datos previos ha sido la primera etapa para el desarrollo del trabajo. En base a ella se efectuarán los cálculos de las distintas simulaciones de caudales ecológicos mínimos y se analizaran los efectos y las repercusiones que conllevan para las centrales hidroeléctricas y que beneficio ambiental reportan.

7 Referencias.

CHJ, 2016. “Plan Hidrológico de cuenca 2015-2021” Plan Hidrológico del Júcar aprobado por el Real Decreto 1/2016, del 8 de enero.

CHJ, 2016. “Usos y demanda del agua” Anejo 3 del Plan Hidrológico del Júcar.

CHJ, 2016. “Usos y demandas del agua” Anejo 5 del Plan Hidrológico del Júcar.

ROEA, 2019. “Red oficial de estaciones de aforo” Base de datos de puntos singulares de cauces y canales, así como de la reserva de los embalses.

S.I.A Júcar, 2019. “Sistema de información del agua” Visor web donde se encuentra información geográfica de la Confederación.

SAIH, 2019. “Sistema Automático de Información Hidrológica” Sistema de información encargado de captar, transmitir en tiempo real, procesar y presentar aquellos datos que describen el estado hidrológico e hidráulico de la cuenca.

CHJ, 2019. “Base de datos proporcionada por la Confederación Hidrográfica del Júcar” Datos proporcionados de las centrales y sus producciones.

CEDEX, 2019. “Anuario de aforos 2015-2016” Anuario de estaciones foronómicas elaborado por el centro de estudios hidrográficos del CEDEX.



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



ETS INGENIEROS DE CAMINOS,
CANALES Y PUERTOS

Trabajo de final de grado

Adecuación de la producción energética de las centrales hidroeléctricas al cumplimiento de los caudales ecológicos en la Demarcación del Júcar. Cabecera río Júcar.

Anejo II: Cálculo



Índice

1	Introducción.....	1
2	Ámbito.....	3
3	Cálculo de la producción potencial.....	5
3.1	Central hidroeléctrica La Toba	6
3.1.1	Caudal ecológico 0	6
3.1.2	Caudal ecológico PHJ (2015-2021).....	7
3.1.3	Caudal ecológico Q_{75}	8
3.1.4	Caudal ecológico Q_{70}	9
3.1.5	Caudal ecológico Q_{65}	10
3.1.6	Caudal ecológico Q_{55}	11
3.1.7	Caudal ecológico Q_{40}	12
3.2	Central hidroeléctrica Villalba.....	13
3.2.1	Caudal ecológico 0	14
3.2.2	Caudal ecológico PHJ (2015-2021).....	15
3.2.3	Caudal ecológico Q_{75}	16
3.2.4	Caudal ecológico Q_{70}	17
3.2.5	Caudal ecológico Q_{65}	18
3.2.6	Caudal ecológico Q_{55}	19
3.2.7	Caudal ecológico Q_{40}	20
3.3	Central hidroeléctrica La Torre.....	21
3.3.1	Caudal ecológico 0	21
3.3.2	Caudal ecológico PHJ (2015-2021).....	22
3.3.3	Caudal ecológico Q_{90}	23
3.3.4	Caudal ecológico Q_{87}	24
3.3.5	Caudal ecológico Q_{75}	25
3.3.6	Caudal ecológico Q_{70}	26
3.3.7	Caudal ecológico Q_{55}	27
3.4	Central hidroeléctrica Las Grajas	28
3.4.1	Caudal ecológico 0	29
3.4.2	Caudal ecológico PHJ (2015-2021).....	30
3.4.3	Caudal ecológico Q_{90}	31
3.4.4	Caudal ecológico Q_{87}	32
3.4.5	Caudal ecológico Q_{75}	33



3.4.6	Caudal ecológico Q_{70}	34
3.4.7	Caudal ecológico Q_{55}	35
3.5	Central hidroeléctrica El Batán.....	35
3.5.1	Caudal ecológico 0	36
3.5.2	Caudal ecológico PHJ (2015-2021).....	37
3.5.3	Caudal ecológico Q_{90}	38
3.5.4	Caudal ecológico Q_{87}	39
3.5.5	Caudal ecológico Q_{75}	40
3.5.6	Caudal ecológico Q_{70}	41
3.5.7	Caudal ecológico Q_{55}	42
3.6	Central hidroeléctrica Molino de Santiago.....	43
3.6.1	Caudal ecológico 0	44
3.6.2	Caudal ecológico PHJ (2015-2021).....	45
3.6.3	Caudal ecológico Q_{90}	46
3.6.4	Caudal ecológico Q_{87}	47
3.6.5	Caudal ecológico Q_{75}	48
3.6.6	Caudal ecológico Q_{70}	49
3.6.7	Caudal ecológico Q_{55}	50
3.7	Central hidroeléctrica El Castellar	51
3.7.1	Caudal ecológico 0	51
3.7.2	Caudal ecológico PHJ (2015-2021).....	52
3.7.3	Caudal ecológico Q_{100}	53
3.7.4	Caudal ecológico Q_{99}	54
3.7.5	Caudal ecológico Q_{96}	55
3.7.6	Caudal ecológico Q_{95}	56
3.7.7	Caudal ecológico Q_{82}	57
4	Reducción de ingresos.....	59
4.1	Central hidroeléctrica La Toba	59
4.2	Central hidroeléctrica Villalba.....	60
4.3	Central hidroeléctrica La Torre.....	61
4.4	Central hidroeléctrica Las Grajas	62
4.5	Central hidroeléctrica El Batán.....	63
4.6	Central hidroeléctrica Molino de Santiago.....	64
4.7	Central hidroeléctrica El Castellar	65
5	Referencias	67

Índice de figuras

Figura 1. Esquema del tramo de estudio y fichas técnicas de las centrales hidroeléctricas	3
Figura 2. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central La Toba.....	6
Figura 3. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0.....	6
Figura 4. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico del PHJ (2015-2021).....	7
Figura 5. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,5 m ³ /s	8
Figura 6. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,63 m ³ /s	9
Figura 7. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,72 m ³ /s	10
Figura 8. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 1 m ³ /s	11
Figura 9. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 2 m ³ /s	12
Figura 10. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Villalba	13
Figura 11. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0.....	14
Figura 12. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico del PHJ (2015-2021).....	15
Figura 13. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,5 m ³ /s	16
Figura 14. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,63 m ³ /s	17
Figura 15. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,72 m ³ /s	18
Figura 16. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 1 m ³ /s	19
Figura 17. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 2 m ³ /s	20
Figura 18. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de La Torre	21
Figura 19. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 0.....	21
Figura 20. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico del PHJ (2015-2021).....	22
Figura 21. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1 m ³ /s	23



Figura 22. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1,24 m ³ /s	24
Figura 23. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1,86 m ³ /s	25
Figura 24. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 2 m ³ /s	26
Figura 25. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 3 m ³ /s	27
Figura 26. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Las Grajas	28
Figura 27. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 0	29
Figura 28. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico del PHJ (2015-2021)	30
Figura 29. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1 m ³ /s.....	31
Figura 30. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1,24 m ³ /s.....	32
Figura 31. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1,86 m ³ /s.....	33
Figura 32. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 2 m ³ /s.....	34
Figura 33. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 3 m ³ /s.....	35
Figura 34. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de El Batán	36
Figura 35. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 0.....	36
Figura 36. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico del PHJ (2015-2021).....	37
Figura 37. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1 m ³ /s	38
Figura 38. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1,24 m ³ /s	39
Figura 39. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1,86 m ³ /s	40
Figura 40. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 2 m ³ /s	41
Figura 41. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 3 m ³ /s	42
Figura 42. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Molino de Santiago	43
Figura 43. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 0.....	44
Figura 44. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico del PHJ (2015-2021).....	45



Figura 45. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1 m ³ /s	46
Figura 46. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1,24 m ³ /s	47
Figura 47. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1,86 m ³ /s	48
Figura 48. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 2 m ³ /s	49
Figura 49. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 3 m ³ /s	50
Figura 50. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de El Castellar	51
Figura 51. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 0.....	51
Figura 52. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico del PHJ (2015-2021).....	52
Figura 53. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1 m ³ /s.....	53
Figura 54. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1,24 m ³ /s	54
Figura 55. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1,86 m ³ /s	55
Figura 56. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 2 m ³ /s	56
Figura 57. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 3 m ³ /s	57
Figura 58. Grafica de los ingresos generados en el rango de caudales mínimos para La Toba	59
Figura 59. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en La Toba	60
Figura 60. Grafica de los ingresos generados en el rango de caudales mínimos para Villalba	60
Figura 61. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Villalba.....	61
Figura 62. Grafica de los ingresos generados en el rango de caudales mínimos para La Torre	61
Figura 63. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en La Torre.....	62
Figura 64. Grafica de los ingresos generados en el rango de caudales mínimos para Las Grajas	62
Figura 65. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Las Grajas.....	63
Figura 66. Grafica de los ingresos generados en el rango de caudales mínimos para El Batán.....	63
Figura 67. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en El Batán.....	64



Figura 68. Grafica de los ingresos generados en el rango de caudales mínimos para Molino de Santiago	64
Figura 69. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Molino de Santiago	65
Figura 70. Grafica de los ingresos generados en el rango de caudales mínimos para El Castellar	65
Figura 71. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en El Castellar	66



Índice de tablas

Tabla 1. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica La Toba.....	6
Tabla 2. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0.....	7
Tabla 3. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico del PHJ (2015-2021).....	8
Tabla 4. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,5 m ³ /s.....	9
Tabla 5. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,63 m ³ /s.....	10
Tabla 6. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,72 m ³ /s.....	11
Tabla 7. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 1 m ³ /s.....	12
Tabla 8. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 2 m ³ /s.....	13
Tabla 9. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica de Villalba	13
Tabla 10. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0.....	14
Tabla 11. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico del PHJ (2015-2021).....	15
Tabla 12. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,5 m ³ /s.....	16
Tabla 13. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,63 m ³ /s.....	17
Tabla 14. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,72 m ³ /s.....	18



Tabla 15. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 1 m ³ /s.....	19
Tabla 16. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 2 m ³ /s.....	20
Tabla 17. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica La Torre.....	21
Tabla 18. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 0.....	22
Tabla 19. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico del PHJ (2015-2021).....	23
Tabla 20. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 0,5 m ³ /s.....	24
Tabla 21. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 1,24 m ³ /s.....	25
Tabla 22. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 1,86 m ³ /s.....	26
Tabla 23. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 2 m ³ /s.....	27
Tabla 24. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 3 m ³ /s.....	28
Tabla 25. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica Las Grajas.....	28
Tabla 26. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 0.....	29
Tabla 27. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico del PHJ (2015-2021).....	30
Tabla 28. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1 m ³ /s.....	31
Tabla 29. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1,24 m ³ /s.....	32
Tabla 30. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1,86 m ³ /s.....	33



Tabla 31. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 2 m ³ /s.....	34
Tabla 32. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 3 m ³ /s.....	35
Tabla 33. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica El Batán.....	35
Tabla 34. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 0.....	37
Tabla 35. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico del PHJ (2015-2021).....	38
Tabla 36. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1 m ³ /s.....	39
Tabla 37. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1,24 m ³ /s.....	40
Tabla 38. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1,86 m ³ /s.....	41
Tabla 39. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 2 m ³ /s.....	42
Tabla 40. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 3 m ³ /s.....	43
Tabla 41. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica Molino de Santiago.....	43
Tabla 42. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 0.....	44
Tabla 43. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico del PHJ (2015-2021).....	45
Tabla 44. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1 m ³ /s.....	46
Tabla 45. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1,24 m ³ /s.....	47
Tabla 46. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1,86 m ³ /s.....	48



Tabla 47. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 2 m ³ /s	49
Tabla 48. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 3 m ³ /s	50
Tabla 49. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica El Castellar	51
Tabla 50. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 0.....	52
Tabla 51. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico del PHJ (2015-2021).....	53
Tabla 52. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1 m ³ /s.....	54
Tabla 53. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1,24 m ³ /s.....	55
Tabla 54. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1,86 m ³ /s.....	56
Tabla 55. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 2 m ³ /s.....	57
Tabla 56. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 3 m ³ /s.....	58



1 Introducción.

El presente anejo se basará en los datos recogidos para el desarrollo del estudio, ellos quedaran recogidos en el Anejo I. La explicación del desarrollo queda recogida en la aplicación de la memoria. Por consiguiente, en el actual documento, se mostrará la aplicación de los datos, como así el cálculo y los resultados obtenidos. Se establecerán el rango de los intervalos de turbinación, mediante el caudal ecológico y el grupo de turbinación instalado, lo cual permitirá obtener para cada central su producción potencial. Una vez obtenida la producción, se puede calcular los ingresos que generarían anualmente y así comparar estos con la curva de Hábitat Potencial Útil máxima para la trucha común con la finalidad de obtener el beneficio ecológico del aumento de los caudales mínimos.

Esto se efectuará para los distintos escenarios que se propondrán, con el objetivo de mejorar las condiciones del río, sin ocasionar el cierre de las centrales hidroeléctricas o un grave perjuicio económico para ellas. En base a los resultados, se tomarán las medidas oportunas si procede de un aumento en el régimen de caudales ecológicos mínimos dentro de las masas de agua estudiadas.

2 Ámbito.

El estudio está enmarcado en la Cuenca Hidrográfica del Júcar, dentro del sistema de explotación Júcar. Concretamente se ubica en la cabecera del río Júcar, comprendiendo tres masas de agua, que discurren desde el Embalse de La Toba hasta el Embalse de Alarcón.

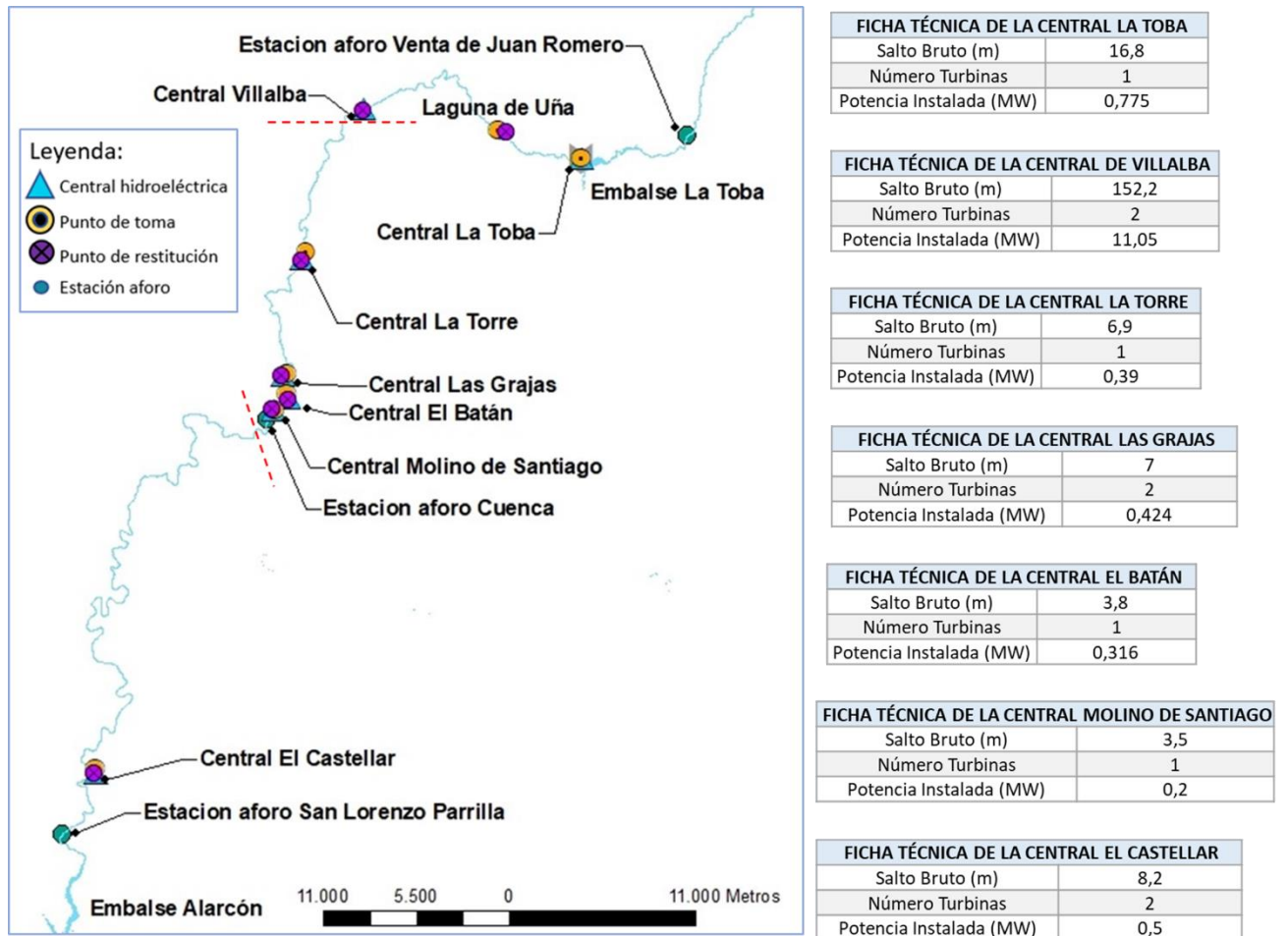


Figura 1. Esquema del tramo de estudio y fichas técnicas de las centrales hidroeléctricas

3 Cálculo de la producción potencial.

En base a los datos previos de las características ecológicas del río y las características hidroeléctricas, se establecerán los rangos de turbinación de las centrales. Estos estarán comprendidos por un valor máximo y uno mínimo. Estos vendrán establecidos por el caudal máximo turbinable por la turbina y un caudal mínimo que dependerá del valor mayor entre el caudal mínimo turbinable y el caudal ecológico mínimo.

A continuación, para la obtención de la potencia de cálculo asociada a cada central hidroeléctrica, se empleará la siguiente fórmula de la potencia del salto hidráulico, de forma ya simplificada para el agua. Una vez calculada, pasa a multiplicarse por el número de horas de un año, lo que devuelve el resultado de la producción potencial.

$$Pe(kW) = 9,81 * \eta_t * \eta_e * \eta_m * Q * H$$

$$Pe * 876(h) = \text{Produccion del intervalo}$$

Donde:

- Pe = potencia en kilovatios (kW)
- η_t = rendimiento de la turbina hidráulica
- η_e = rendimiento generador eléctrico
- η_m = rendimiento mecánico del acoplamiento turbina alternador
- Q = caudal turbinable en m^3/s
- H = desnivel neto en la presa disponible entre aguas arriba y aguas abajo medido en metros (m)

Esto se aplicará para la curva de caudales clasificados (CCC) asociada a cada central, elaborada con la serie histórica de caudales de 30 años, donde están ordenados los caudales en función de su probabilidad de ocurrencia. Por ello, se dividirá esta CCC en 10 intervalos de ocurrencia, de un 10% cada uno. Para cada uno, se hará una media con los caudales que comprende dicho intervalo de ocurrencia, y será el caudal empleado en la fórmula de potencia. Al efectuarse la división en 10 intervalos, a la hora de obtener la producción, esta potencia será multiplicada por 876 horas, la parte proporcional al 10% de las horas de un año que son las que le corresponden. La suma de los 10 intervalos proporcionará la producción potencial de la central a lo largo del año.

3.1 Central hidroeléctrica La Toba

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q_{PHJ}	Q_{75}	Q_{70}	Q_{65}	Q_{55}	Q_{40}
		$2 * Q_{PHJ}$		$3 * Q_{PHJ}$	
$0,34 \text{ m}^3/\text{s}$	$0,5 \text{ m}^3/\text{s}$	$0,63 \text{ m}^3/\text{s}$	$0,72 \text{ m}^3/\text{s}$	$1 \text{ m}^3/\text{s}$	$2 \text{ m}^3/\text{s}$

Tabla 1. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica La Toba

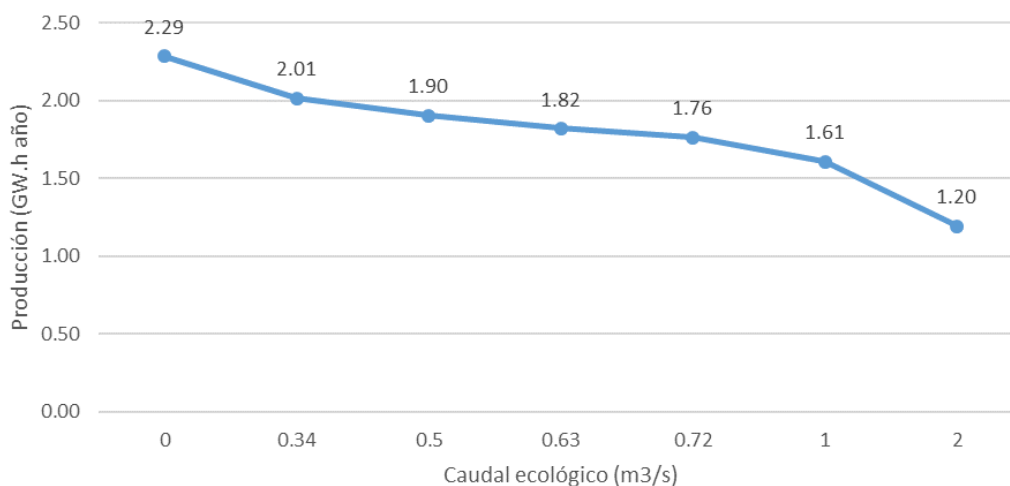


Figura 2. Gráfica de la variación de la producción potencial anual en función del caudal ecológico para la central La Toba

3.1.1 Caudal ecológico 0

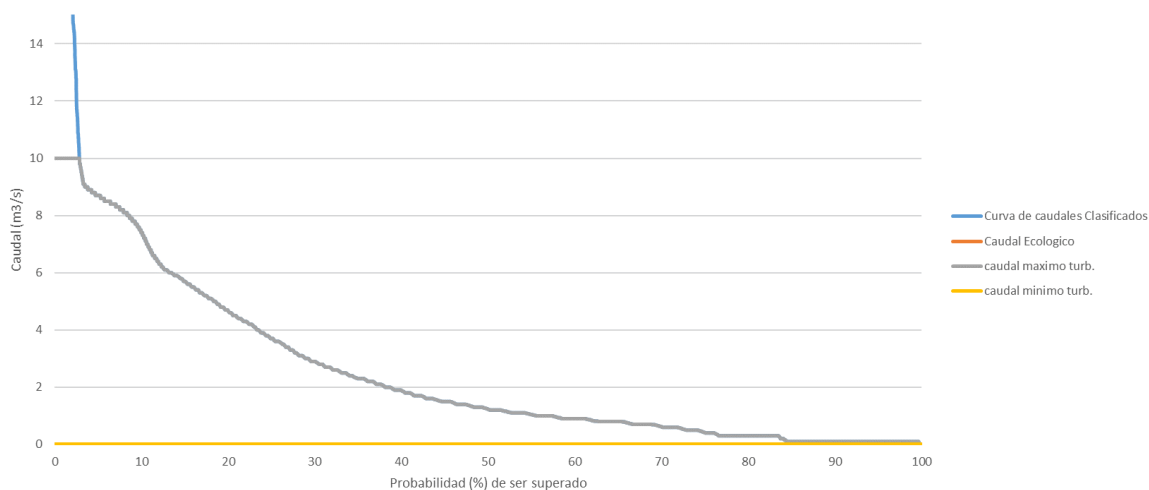


Figura 3. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	669.3445921 kW	586,345.86 kW*h
Potencia 30%	453.2365247 kW	397,035.20 kW*h
Potencia 40%	284.515107 kW	249,235.23 kW*h
Potencia 50%	184.4932295 kW	161,616.07 kW*h
Potencia 60%	127.5820134 kW	111,761.84 kW*h
Potencia 70%	94.25572934 kW	82,568.02 kW*h
Potencia 80%	52.71035803 kW	46,174.27 kW*h
Potencia 90%	21.77169295 kW	19,072.00 kW*h
Potencia 100%	11.79116681 kW	10,329.06 kW*h
TOTAL	2,610 kW	2,286,758 KWh-año

2,287 MWh-año
2.3 GWh-año

8760 horas

Tabla 2. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0

3.1.2 Caudal ecológico PHJ (2015-2021)

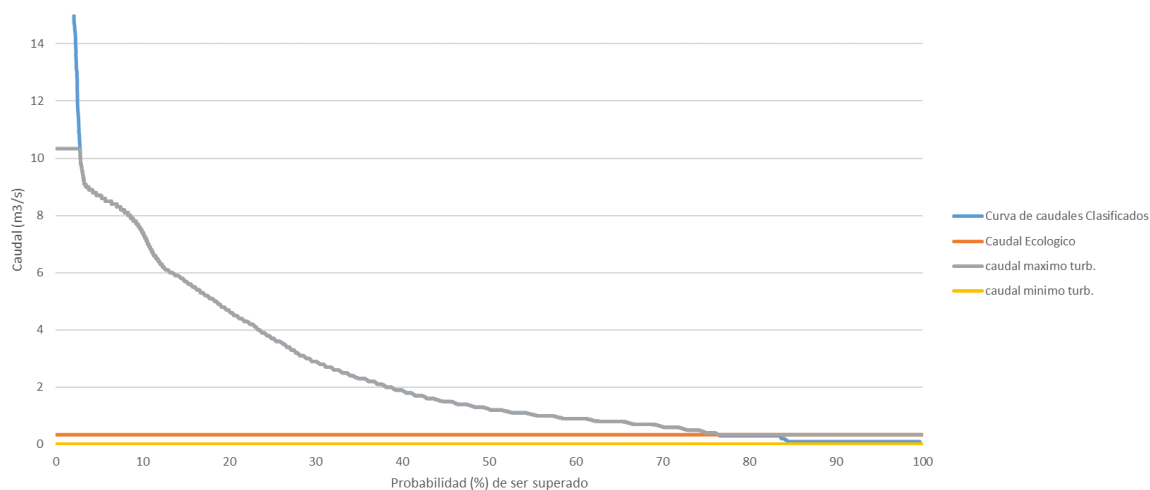


Figura 4. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	638.3265035 kW	559,174.02 kW*h
Potencia 30%	411.9277291 kW	360,848.69 kW*h
Potencia 40%	243.2063114 kW	213,048.73 kW*h
Potencia 50%	143.1844339 kW	125,429.56 kW*h
Potencia 60%	86.2732178 kW	75,575.34 kW*h
Potencia 70%	52.94693375 kW	46,381.51 kW*h
Potencia 80%	13.082335 kW	11,460.13 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	2,300 kW	2,014,539 KWh-año
		2,015 MWh-año
8760 horas		2.0 GWh-año

Tabla 3. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico del PHJ (2015-2021)

3.1.3 Caudal ecológico Q_{75}

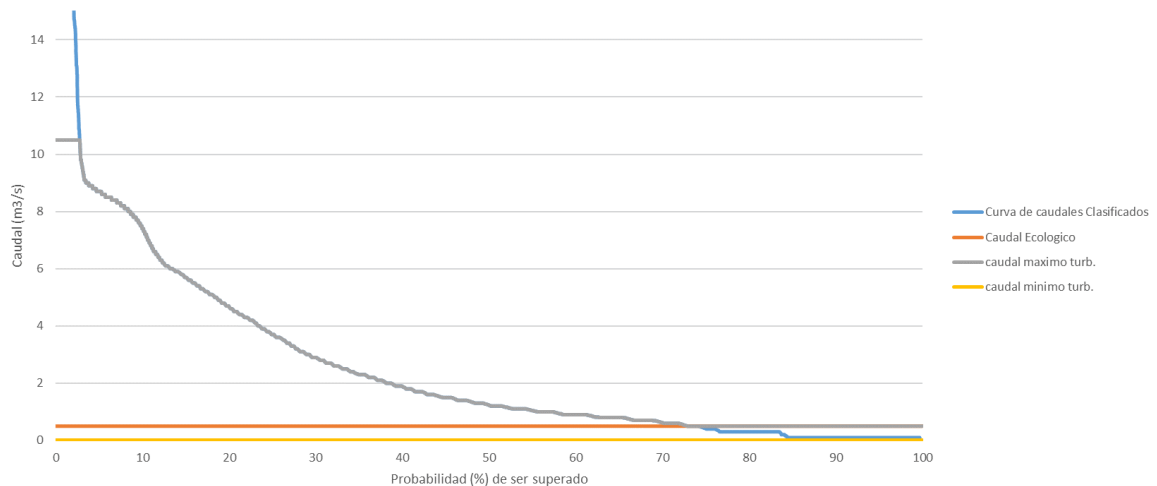


Figura 5. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,5 m³/s

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	620.6172142 kW	543,660.68 kW*h
Potencia 30%	392.4882959 kW	343,819.75 kW*h
Potencia 40%	223.7668782 kW	196,019.79 kW*h
Potencia 50%	123.7450007 kW	108,400.62 kW*h
Potencia 60%	66.83378458 kW	58,546.40 kW*h
Potencia 70%	33.50750054 kW	29,352.57 kW*h
Potencia 80%	2.87212474 kW	2,515.98 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	2,175 kW	1,904,937 KWh-año
		1,905 MWh-año
8760 horas		1.9 GWh-año

Tabla 4. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,5 m3/s

3.1.4 Caudal ecológico Q₇₀

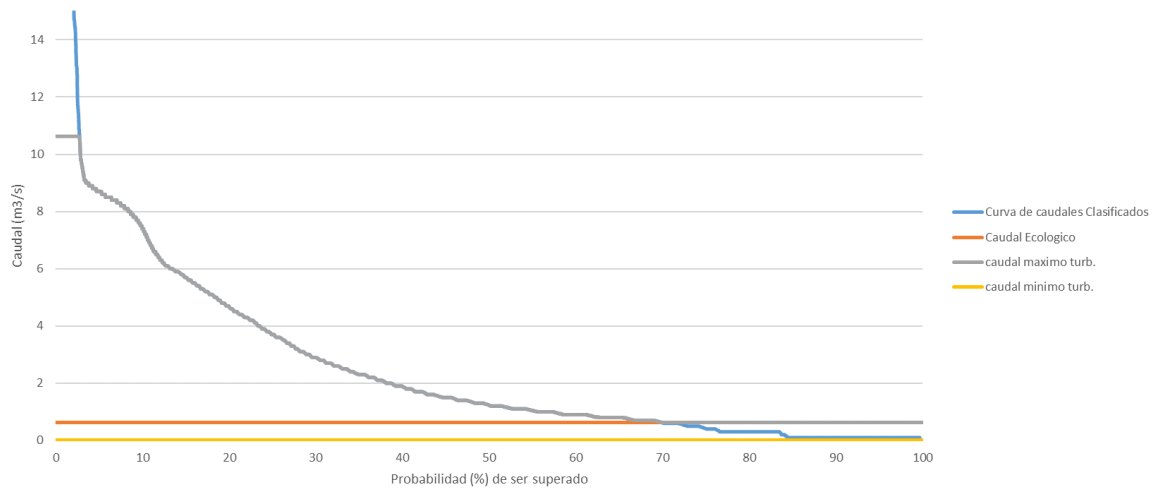


Figura 6. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,63 m3/s

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	606.2576638 kW	531,081.71 kW*h
Potencia 30%	376.6937564 kW	329,983.73 kW*h
Potencia 40%	207.9723387 kW	182,183.77 kW*h
Potencia 50%	107.9504612 kW	94,564.60 kW*h
Potencia 60%	51.03924509 kW	44,710.38 kW*h
Potencia 70%	17.71617808 kW	15,519.37 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	2,078 kW	1,820,664 KWh-año
		1,821 MWh-año
8760 horas		1.8 GWh-año

Tabla 5. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,63 m³/s

3.1.5 Caudal ecológico Q₆₅

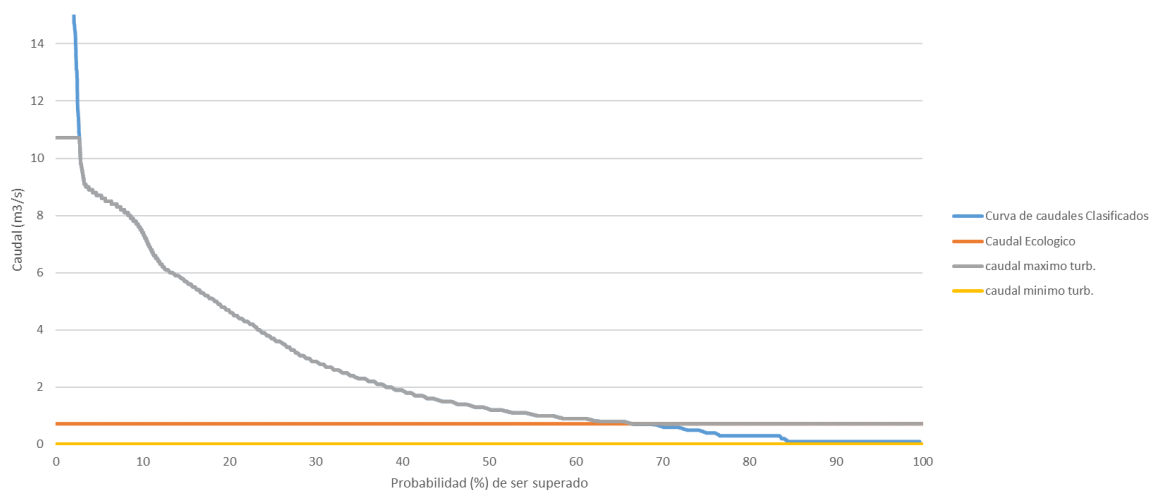


Figura 7. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 0,72 m³/s

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	595.2360461 kW	521,426.78 kW*h
Potencia 30%	365.7590752 kW	320,404.95 kW*h
Potencia 40%	197.0376576 kW	172,604.99 kW*h
Potencia 50%	97.01578003 kW	84,985.82 kW*h
Potencia 60%	40.10456391 kW	35,131.60 kW*h
Potencia 70%	8.089755306 kW	7,086.63 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	2,014 kW	1,764,262 KWh-año

1,764 MWh-año
1.8 GWh-año

8760 horas

Tabla 6. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 0,72 m3/s

3.1.6 Caudal ecológico Q₅₅

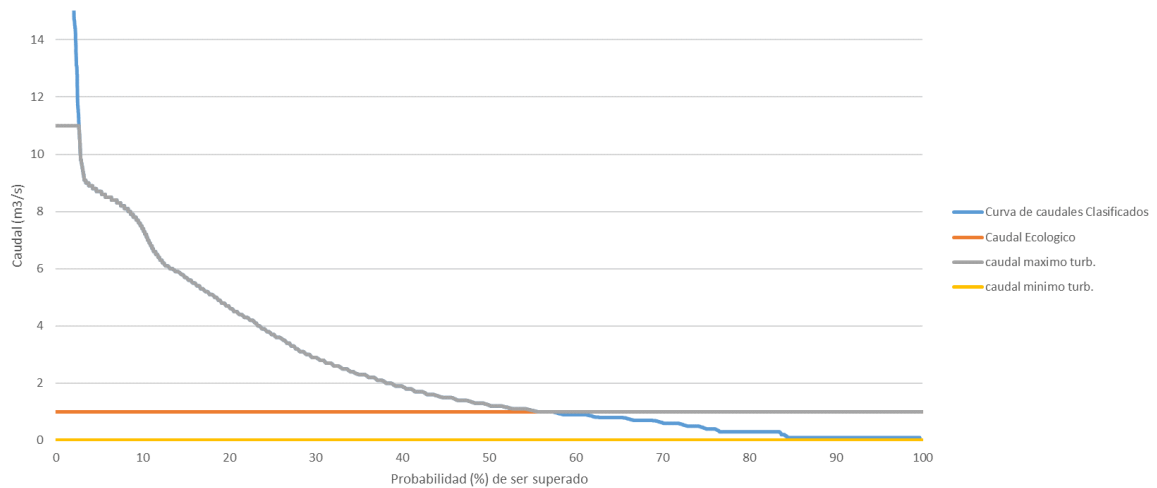


Figura 8. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 1 m3/s

Potencia por intervalos		Produccion
Potencia 10%	710.754277 kW	622,620.75 kW*h
Potencia 20%	558.9030242 kW	489,599.05 kW*h
Potencia 30%	331.7400671 kW	290,604.30 kW*h
Potencia 40%	163.0186494 kW	142,804.34 kW*h
Potencia 50%	62.9967719 kW	55,185.17 kW*h
Potencia 60%	8.555196674 kW	7,494.35 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,836 kW	1,608,308 KWh-año
		1,608 MWh-año
8760 horas		1.6 GWh-año

Tabla 7. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 1 m³/s

3.1.7 Caudal ecológico Q₄₀

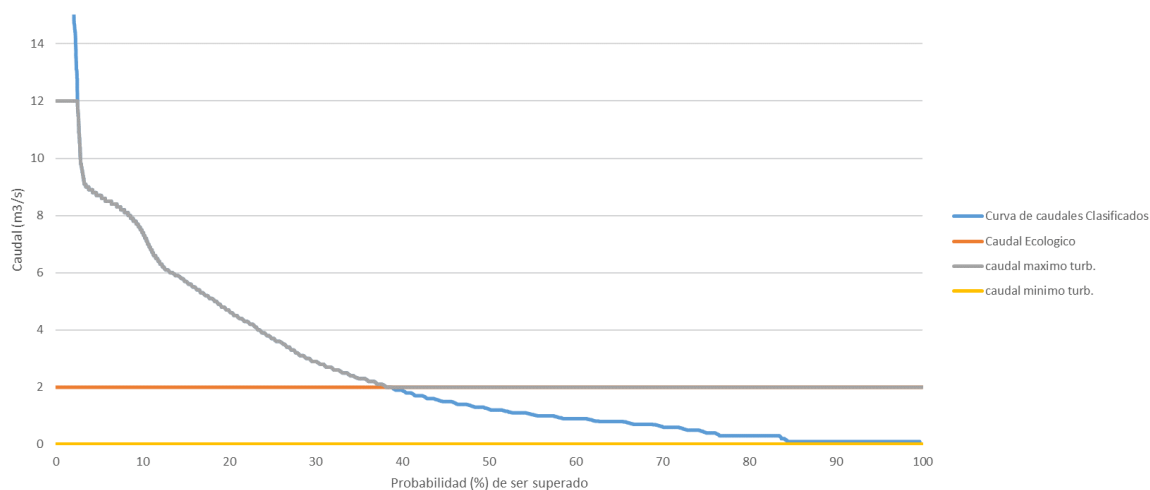


Figura 9. Rango de funcionamiento para la central hidroeléctrica La Toba con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	684.7806526 kW	599,867.85 kW*h
Potencia 20%	426.3516769 kW	373,484.07 kW*h
Potencia 30%	210.2436095 kW	184,173.40 kW*h
Potencia 40%	42.80364167 kW	37,495.99 kW*h
Potencia 50%	0 kW	0.00 kW*h
Potencia 60%	0 kW	0.00 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,364 kW	1,195,021 KWh-año
		1,195 MWh-año
8760 horas		1.2 GWh-año

Tabla 8. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Toba con caudal ecológico 2 m³/s

3.2 Central hidroeléctrica Villalba

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q _{PHJ}	Q ₇₅	Q ₇₀	Q ₆₅	Q ₅₅	Q ₄₀
		2*Q _{PHJ}		3*Q _{PHJ}	
0,34 m ³ /s	0,5 m ³ /s	0,63 m ³ /s	0,72 m ³ /s	1 m ³ /s	2 m ³ /s

Tabla 9. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica de Villalba

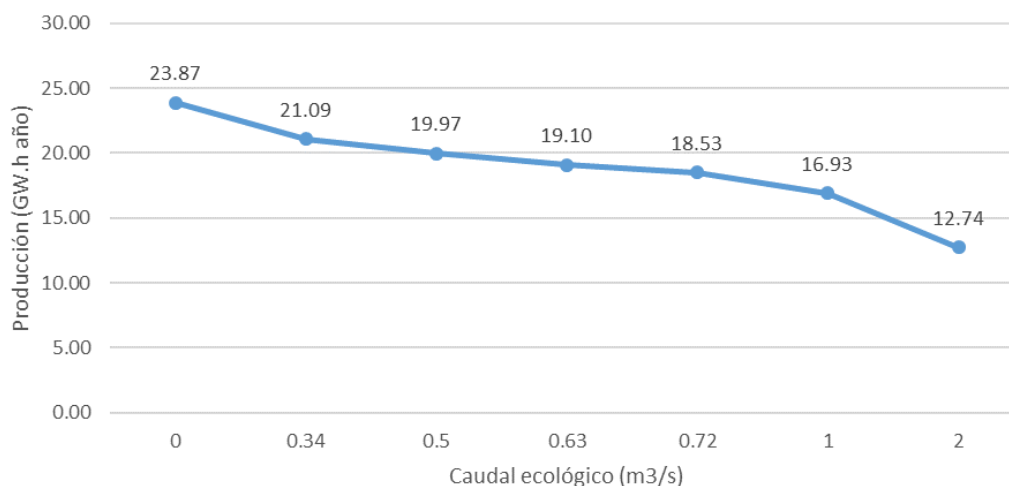


Figura 10. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Villalba

3.2.1 Caudal ecológico 0

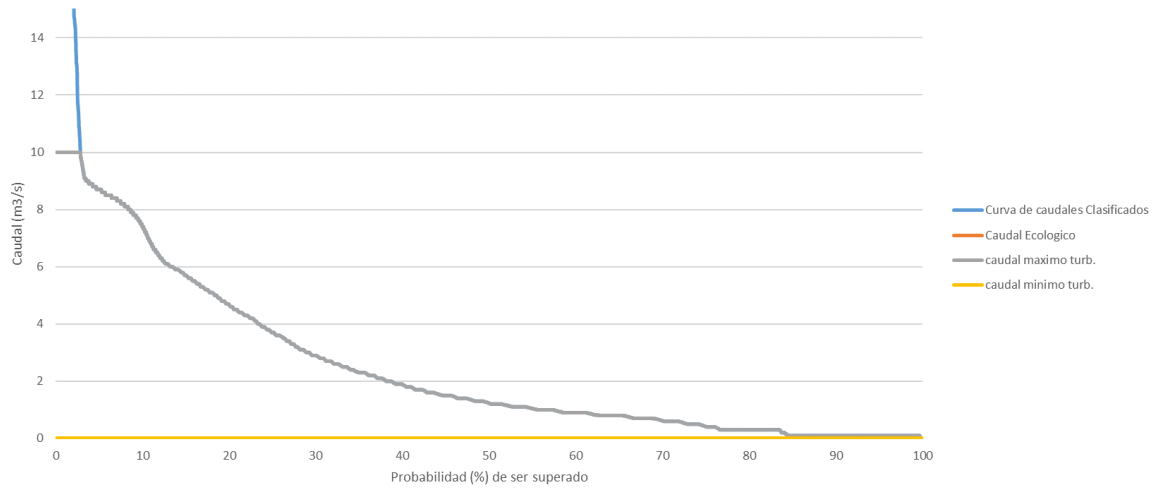


Figura 11. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0

Potencia por probabilidad		Produccion
Potencia 10%	9770.871564 kW	8,559,283.49 kW*h
Potencia 20%	6333.303629 kW	5,547,973.98 kW*h
Potencia 30%	4106.107086 kW	3,596,949.81 kW*h
Potencia 40%	2577.571386 kW	2,257,952.53 kW*h
Potencia 50%	1671.420805 kW	1,464,164.63 kW*h
Potencia 60%	1155.832288 kW	1,012,509.08 kW*h
Potencia 70%	853.9120241 kW	748,026.93 kW*h
Potencia 80%	477.5307436 kW	418,316.93 kW*h
Potencia 90%	197.2411707 kW	172,783.27 kW*h
Potencia 100%	106.8223565 kW	93,576.38 kW*h
TOTAL	27,251 kW	23,871,537 KWh-año
		23,872 MWh-año
8760 horas		23.9 GWh-año

Tabla 10. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0

3.2.2 Caudal ecológico PHJ (2015-2021)

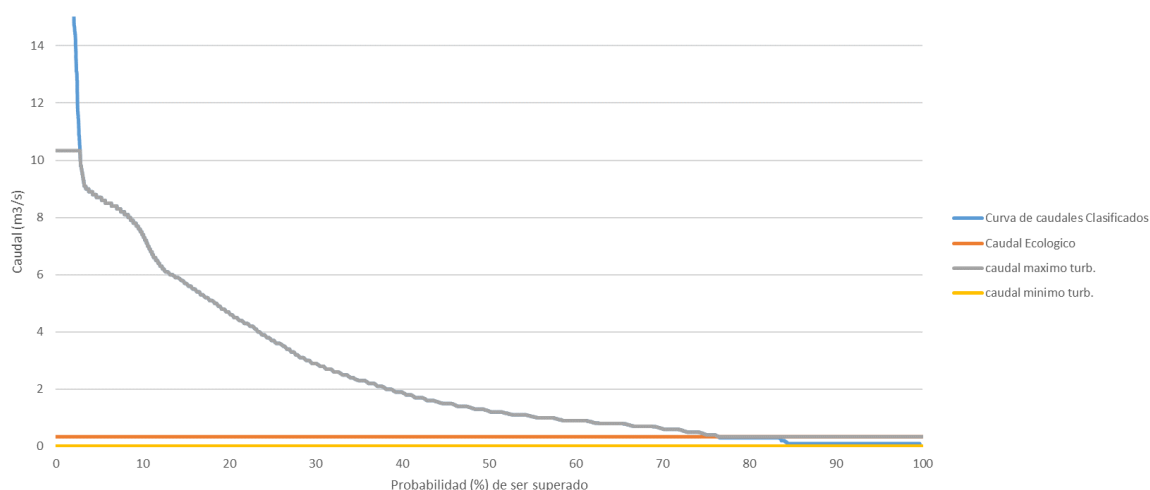


Figura 12. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	9501.102817 kW	8,322,966.07 kW*h
Potencia 20%	5959.065612 kW	5,220,141.48 kW*h
Potencia 30%	3731.869069 kW	3,269,117.30 kW*h
Potencia 40%	2203.333369 kW	1,930,120.03 kW*h
Potencia 50%	1297.182788 kW	1,136,332.12 kW*h
Potencia 60%	781.5942708 kW	684,676.58 kW*h
Potencia 70%	479.674007 kW	420,194.43 kW*h
Potencia 80%	118.5197254 kW	103,823.28 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	24,072 kW	21,087,371 KWh-año
		21,087 MWh-año
8760 horas		21.1 GWh-año

Tabla 11. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico del PHJ (2015-2021)

3.2.3 Caudal ecológico Q_{75}

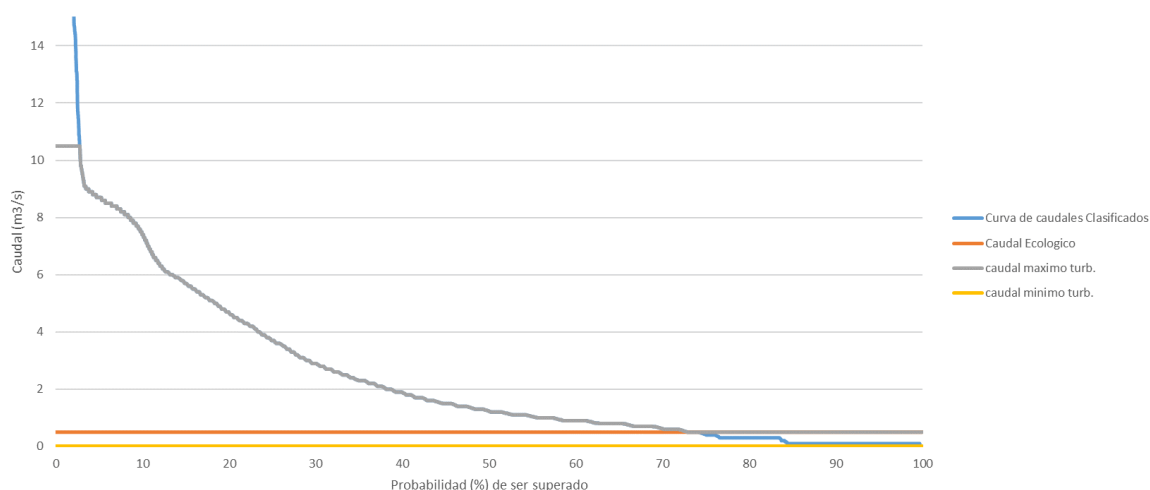


Figura 13. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,5 m³/s

Potencia por intervalos		Produccion
Potencia 10%	9372.208118 kW	8,210,054.31 kW*h
Potencia 20%	5782.953604 kW	5,065,867.36 kW*h
Potencia 30%	3555.757061 kW	3,114,843.19 kW*h
Potencia 40%	2027.221361 kW	1,775,845.91 kW*h
Potencia 50%	1121.07078 kW	982,058.00 kW*h
Potencia 60%	605.4822627 kW	530,402.46 kW*h
Potencia 70%	303.5619989 kW	265,920.31 kW*h
Potencia 80%	26.02008246 kW	22,793.59 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	22,794 kW	19,967,785 KWh-año
		19,968 MWh-año
8760 horas		20.0 GWh-año

Tabla 12. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,5 m³/s

3.2.4 Caudal ecológico Q_{70}

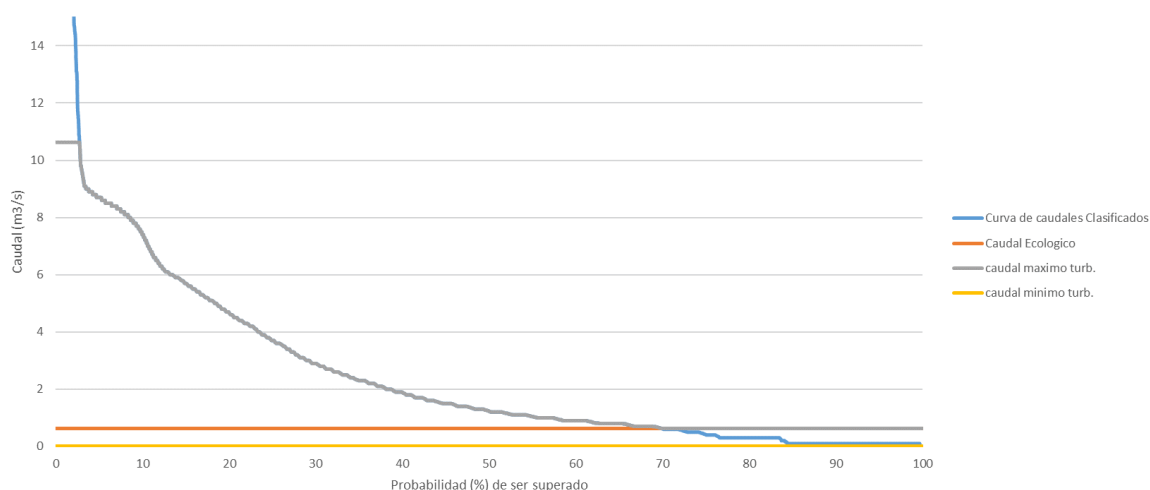


Figura 14. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,63 m³/s

Potencia por intervalos		Produccion
Potencia 10%	9266.717881 kW	8,117,644.86 kW*h
Potencia 20%	5639.862597 kW	4,940,519.64 kW*h
Potencia 30%	3412.666055 kW	2,989,495.46 kW*h
Potencia 40%	1884.130355 kW	1,650,498.19 kW*h
Potencia 50%	977.9797736 kW	856,710.28 kW*h
Potencia 60%	462.3912562 kW	405,054.74 kW*h
Potencia 70%	160.5001371 kW	140,598.12 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	21,804 kW	19,100,521 KWh-año
		19,101 MWh-año
	8760 horas	19.1 GWh-año

Tabla 13. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,63 m³/s

3.2.5 Caudal ecológico Q_{65}

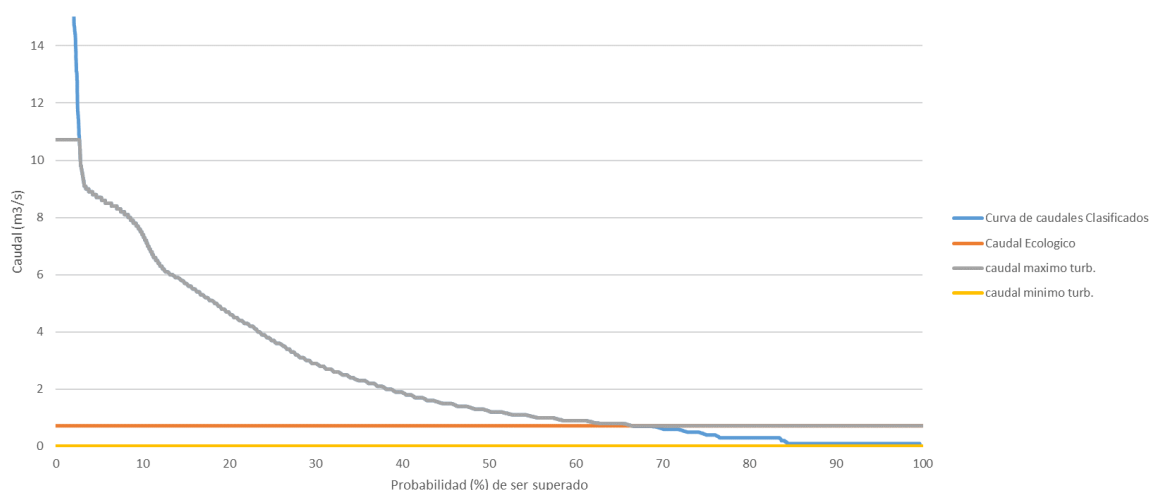


Figura 15. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 0,72 m³/s

Potencia por intervalos		Produccion
Potencia 10%	9192.595651 kW	8,052,713.79 kW*h
Potencia 20%	5540.799593 kW	4,853,740.44 kW*h
Potencia 30%	3313.60305 kW	2,902,716.27 kW*h
Potencia 40%	1785.06735 kW	1,563,719.00 kW*h
Potencia 50%	878.916769 kW	769,931.09 kW*h
Potencia 60%	363.3282516 kW	318,275.55 kW*h
Potencia 70%	73.28933081 kW	64,201.45 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	21,148 kW	18,525,298 KWh-año
		18,525 MWh-año
	8760 horas	18.5 GWh-año

Tabla 14. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 0,72 m³/s

3.2.6 Caudal ecológico Q_{55}

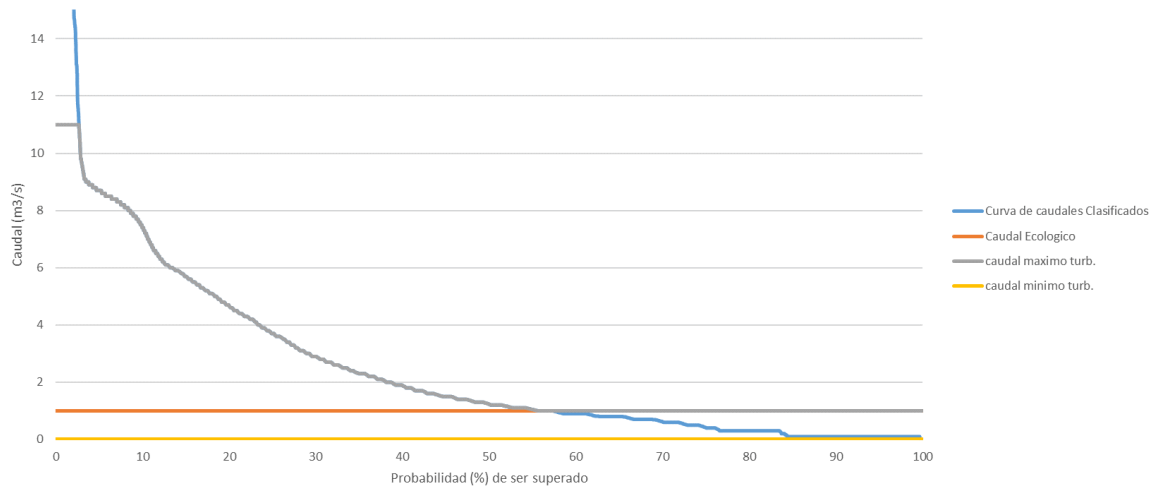


Figura 16. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	8961.876474 kW	7,850,603.79 kW*h
Potencia 20%	5232.603579 kW	4,583,760.74 kW*h
Potencia 30%	3005.407036 kW	2,632,736.56 kW*h
Potencia 40%	1476.871336 kW	1,293,739.29 kW*h
Potencia 50%	570.7207549 kW	499,951.38 kW*h
Potencia 60%	77.50600797 kW	67,895.26 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	19,325 kW	16,928,687 KWh-año
		16,929 MWh-año
	8760 horas	16.9 GWh-año

Tabla 15. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 1 m³/s

3.2.7 Caudal ecológico Q_{40}

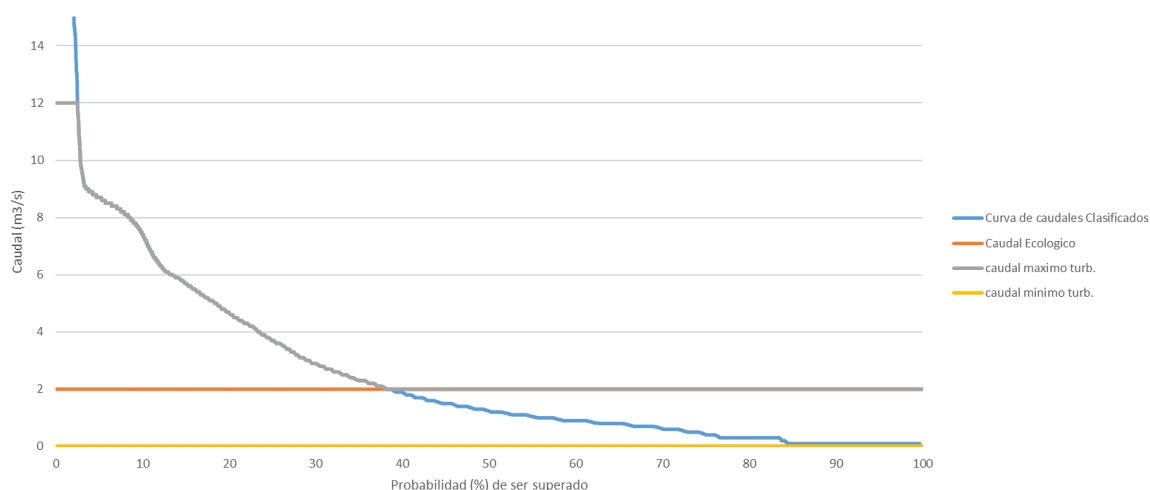


Figura 17. Rango de funcionamiento para la central hidroeléctrica Villalba con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	8119.821488 kW	7,112,963.62 kW*h
Potencia 20%	4131.903528 kW	3,619,547.49 kW*h
Potencia 30%	1904.706986 kW	1,668,523.32 kW*h
Potencia 40%	387.7806109 kW	339,695.82 kW*h
Potencia 50%	0 kW	0.00 kW*h
Potencia 60%	0 kW	0.00 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	14,544 kW	12,740,730 KWh-año
		12,741 MWh-año
8760 horas		12.7 GWh-año

Tabla 16. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Villalba con caudal ecológico 2 m³/s

3.3 Central hidroeléctrica La Torre

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q_{PHJ}	Q_{90}	Q_{87}	Q_{75}	Q_{70}	Q_{55}
		$2 * Q_{PHJ}$	$3 * Q_{PHJ}$		
$0,62 \text{ m}^3/\text{s}$	$1 \text{ m}^3/\text{s}$	$1,24 \text{ m}^3/\text{s}$	$1,86 \text{ m}^3/\text{s}$	$2 \text{ m}^3/\text{s}$	$3 \text{ m}^3/\text{s}$

Tabla 17. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica La Torre

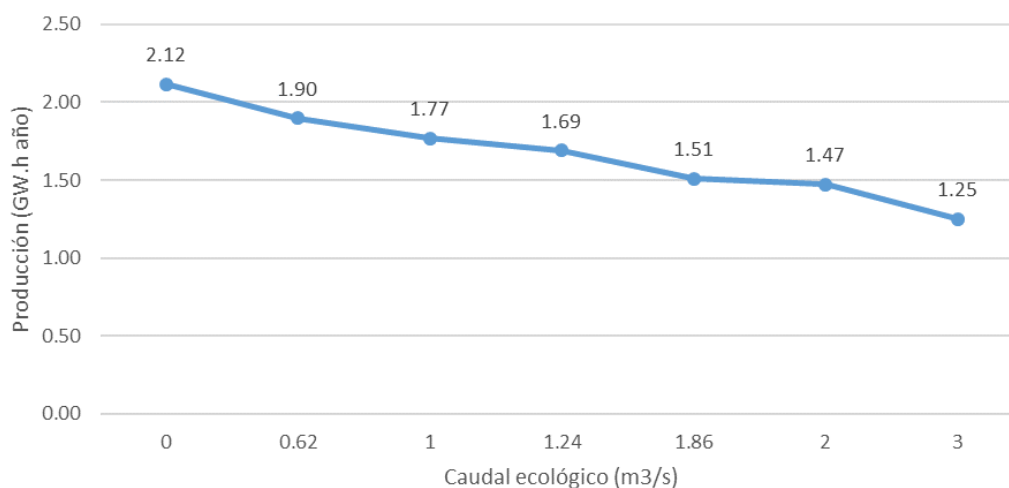


Figura 18. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de La Torre

3.3.1 Caudal ecológico 0

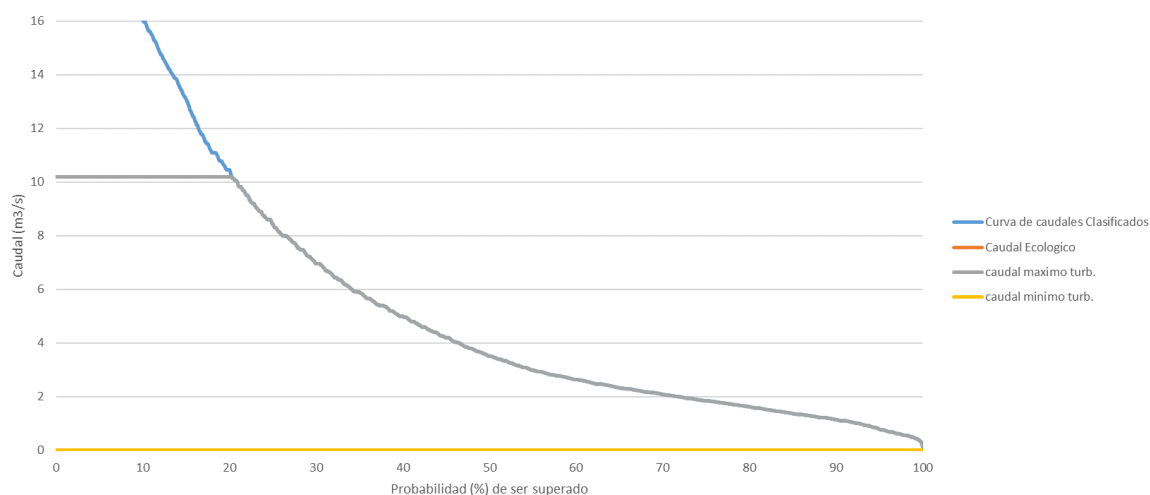


Figura 19. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	508.9833742 kW	445,869.44 kW*h
Potencia 30%	424.809054 kW	372,132.73 kW*h
Potencia 40%	294.7889128 kW	258,235.09 kW*h
Potencia 50%	210.6045665 kW	184,489.60 kW*h
Potencia 60%	151.3271172 kW	132,562.55 kW*h
Potencia 70%	117.3572099 kW	102,804.92 kW*h
Potencia 80%	92.52715941 kW	81,053.79 kW*h
Potencia 90%	68.97305715 kW	60,420.40 kW*h
Potencia 100%	39.39697239 kW	34,511.75 kW*h
TOTAL	2,418 kW	2,117,950 KWh-año

2,118 MWh-año
2.1 GWh-año

8760 horas

Tabla 18. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 0

3.3.2 Caudal ecológico PHJ (2015-2021)

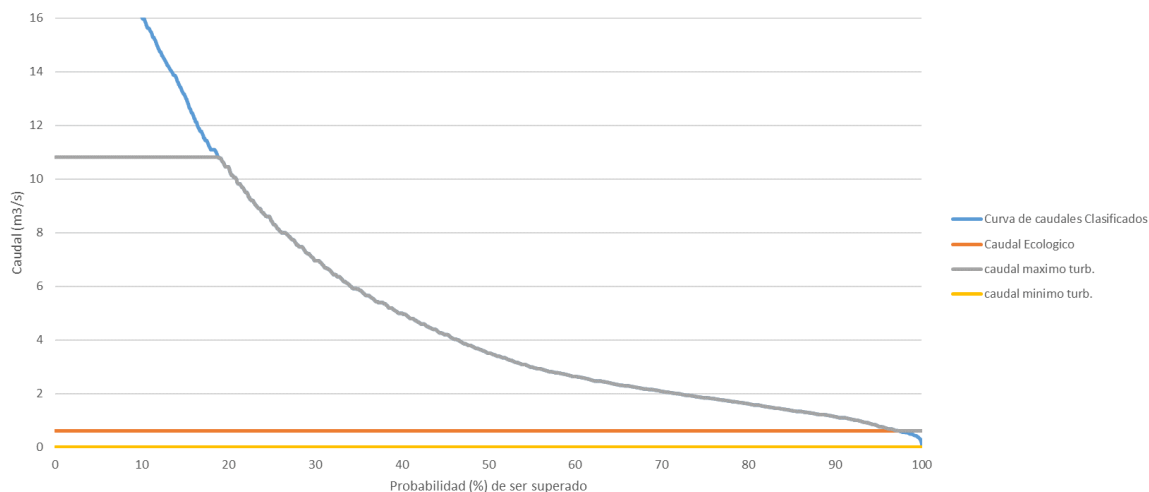


Figura 20. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	505.2937472 kW	442,637.32 kW*h
Potencia 30%	393.870849 kW	345,030.86 kW*h
Potencia 40%	263.8507077 kW	231,133.22 kW*h
Potencia 50%	179.6663615 kW	157,387.73 kW*h
Potencia 60%	120.3889121 kW	105,460.69 kW*h
Potencia 70%	86.41900484 kW	75,703.05 kW*h
Potencia 80%	61.58895431 kW	53,951.92 kW*h
Potencia 90%	38.03485205 kW	33,318.53 kW*h
Potencia 100%	10.26575878 kW	8,992.80 kW*h
TOTAL	2,168 kW	1,899,486 KWh-año
		1,899 MWh-año
	8760 horas	1.9 GWh-año

Tabla 19. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico del PHJ (2015-2021)

3.3.3 Caudal ecológico Q_{90}

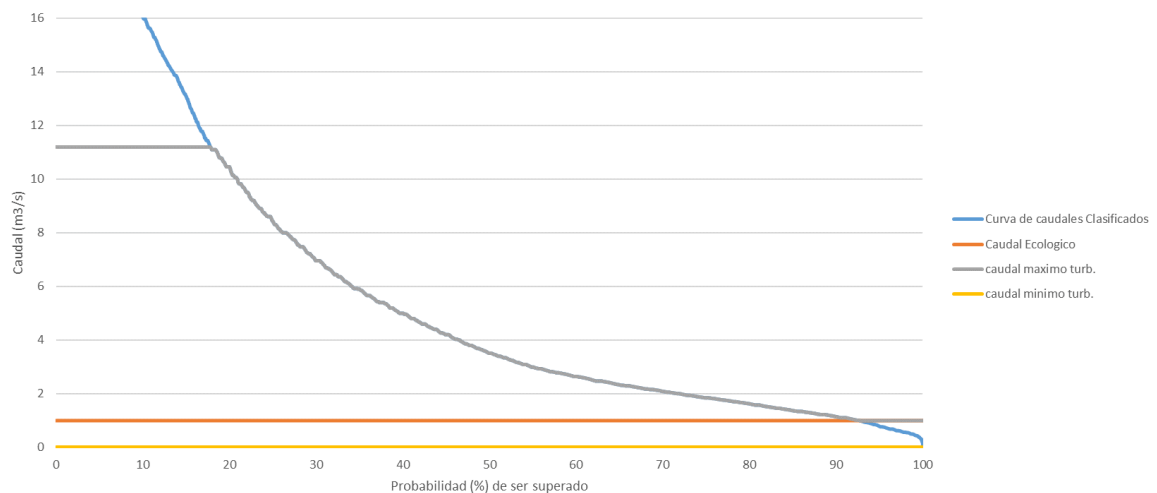


Figura 21. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	498.0511462 kW	436,292.80 kW*h
Potencia 30%	374.9087232 kW	328,420.04 kW*h
Potencia 40%	244.888582 kW	214,522.40 kW*h
Potencia 50%	160.7042357 kW	140,776.91 kW*h
Potencia 60%	101.4267864 kW	88,849.86 kW*h
Potencia 70%	67.45687914 kW	59,092.23 kW*h
Potencia 80%	42.62682861 kW	37,341.10 kW*h
Potencia 90%	19.07272635 kW	16,707.71 kW*h
Potencia 100%	1.004618851 kW	880.05 kW*h
TOTAL	2,019 kW	1,768,753 KWh-año

1,769 MWh-año
1.8 GWh-año

8760 horas

Tabla 20. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 0,5 m3/s

3.3.4 Caudal ecológico Q_{87}

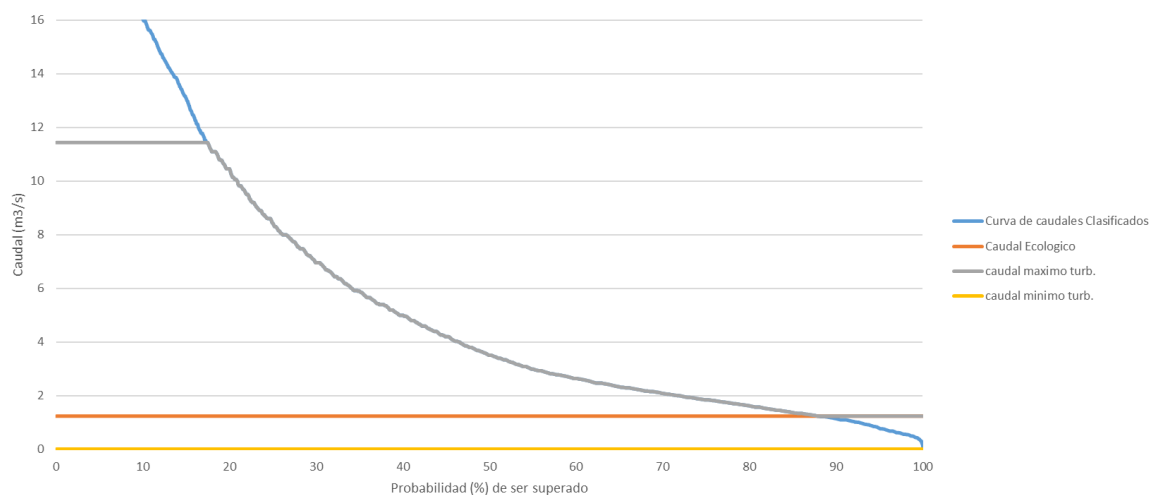


Figura 22. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1,24 m3/s

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	493.4596105 kW	432,270.62 kW*h
Potencia 30%	362.9326439 kW	317,929.00 kW*h
Potencia 40%	232.9125026 kW	204,031.35 kW*h
Potencia 50%	148.7281564 kW	130,285.86 kW*h
Potencia 60%	89.45070703 kW	78,358.82 kW*h
Potencia 70%	55.48079974 kW	48,601.18 kW*h
Potencia 80%	30.65074922 kW	26,850.06 kW*h
Potencia 90%	7.50673775 kW	6,575.90 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,930 kW	1,690,772 KWh-año

1,691 MWh-año
1.7 GWh-año

8760 horas

Tabla 21. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 1,24 m³/s

3.3.5 Caudal ecológico Q₇₅

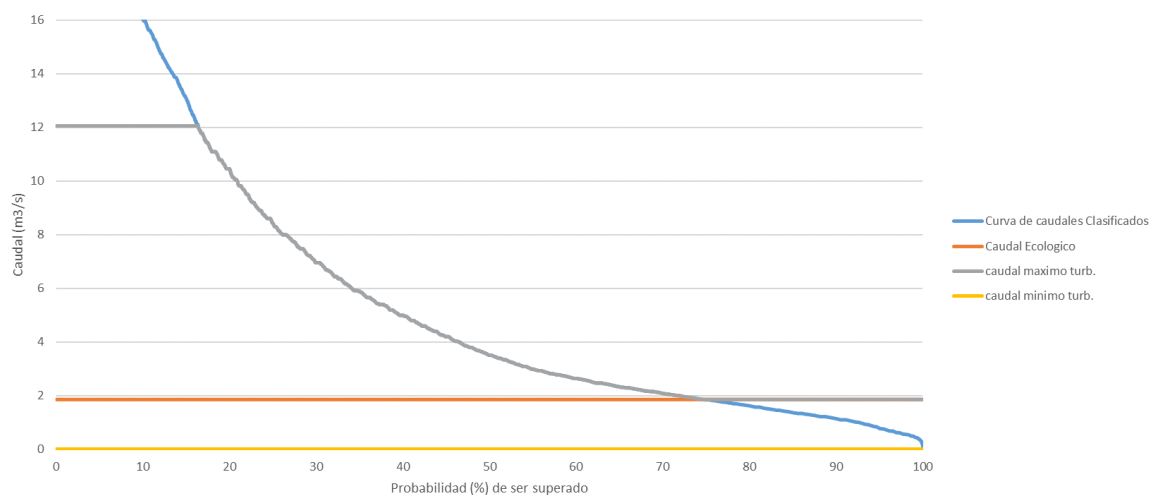


Figura 23. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 1,86 m³/s

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	475.4487649 kW	416,493.12 kW*h
Potencia 30%	331.9944388 kW	290,827.13 kW*h
Potencia 40%	201.9742975 kW	176,929.48 kW*h
Potencia 50%	117.7899513 kW	103,184.00 kW*h
Potencia 60%	58.51250194 kW	51,256.95 kW*h
Potencia 70%	24.54259465 kW	21,499.31 kW*h
Potencia 80%	2.654547721 kW	2,325.38 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,722 kW	1,508,385 KWh-año

1,508 MWh-año
1.5 GWh-año

8760 horas

Tabla 22. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 1,86 m³/s

3.3.6 Caudal ecológico Q₇₀

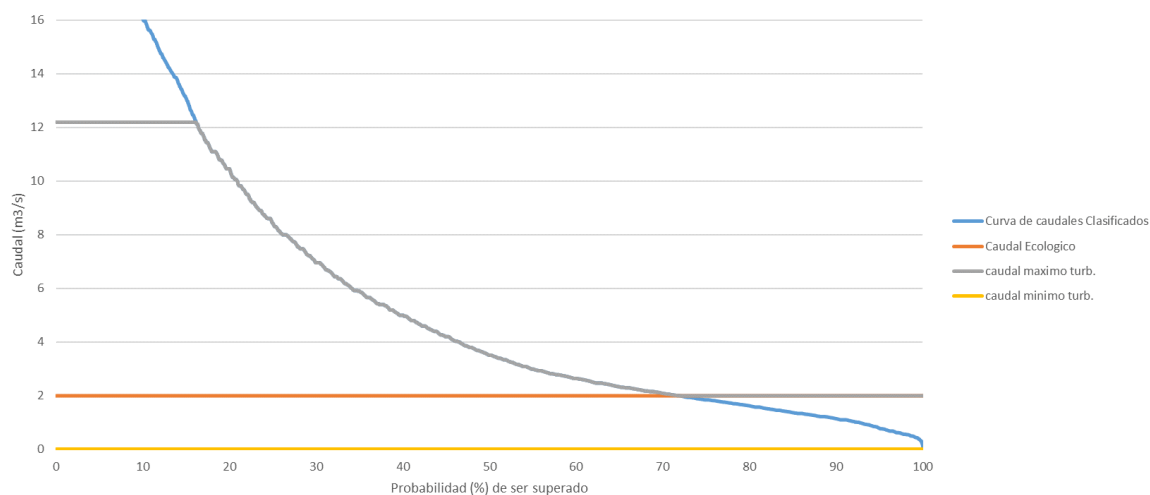


Figura 24. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	470.5442501 kW	412,196.76 kW*h
Potencia 30%	325.0083924 kW	284,707.35 kW*h
Potencia 40%	194.9882512 kW	170,809.71 kW*h
Potencia 50%	110.8039049 kW	97,064.22 kW*h
Potencia 60%	51.52645563 kW	45,137.18 kW*h
Potencia 70%	17.55654834 kW	15,379.54 kW*h
Potencia 80%	0.39113572 kW	342.63 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,680 kW	1,471,507 KWh-año
		1,472 MWh-año
8760 horas		1.5 GWh-año

Tabla 23. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 2 m³/s

3.3.7 Caudal ecológico Q₅₅

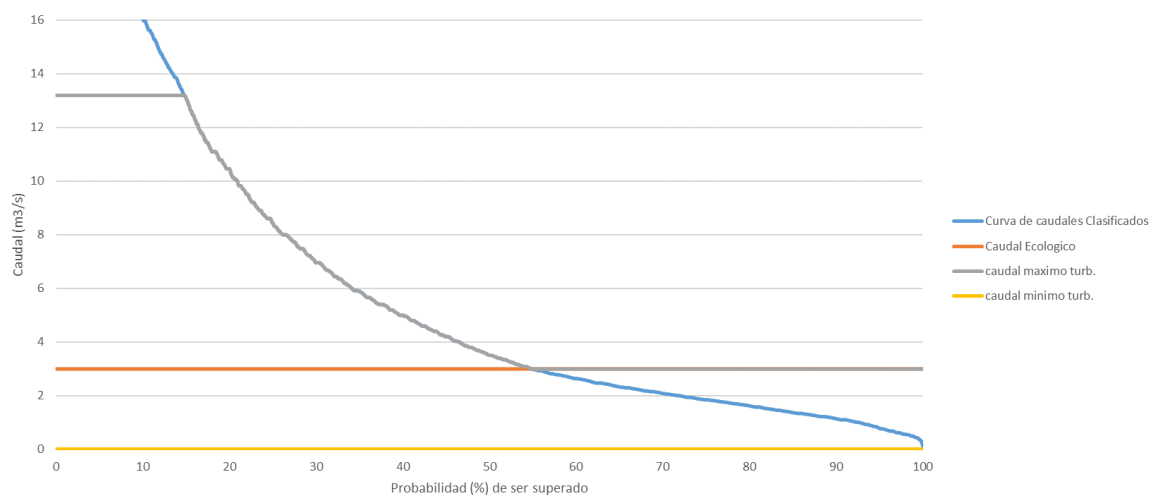


Figura 25. Rango de funcionamiento para la central hidroeléctrica La Torre con caudal ecológico 3 m³/s

Potencia por intervalos		Produccion
Potencia 10%	508.9833742 kW	445,869.44 kW*h
Potencia 20%	430.8267606 kW	377,404.24 kW*h
Potencia 30%	275.1080616 kW	240,994.66 kW*h
Potencia 40%	145.0879204 kW	127,097.02 kW*h
Potencia 50%	60.90357415 kW	53,351.53 kW*h
Potencia 60%	6.361013812 kW	5,572.25 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,427 kW	1,250,289 KWh-año
		1,250 MWh-año
8760 horas		1.3 GWh-año

Tabla 24. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de La Torre con caudal ecológico 3 m³/s

3.4 Central hidroeléctrica Las Grajas

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q _{PHJ}	Q ₉₀	Q ₈₇	Q ₇₅	Q ₇₀	Q ₅₅
		2*Q _{PHJ}	3*Q _{PHJ}		
0,62 m ³ /s	1 m ³ /s	1,24 m ³ /s	1,86 m ³ /s	2 m ³ /s	3 m ³ /s

Tabla 25. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica Las Grajas

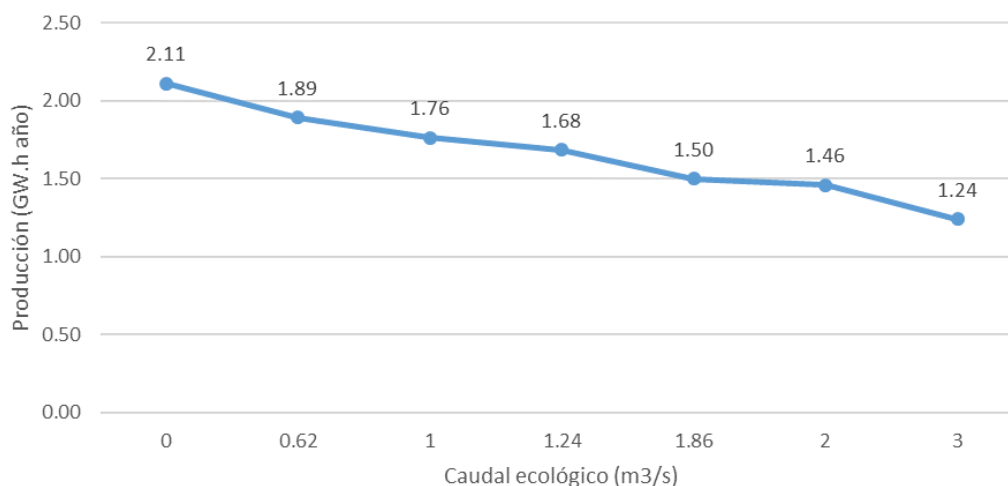


Figura 26. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Las Grajas

3.4.1 Caudal ecológico 0

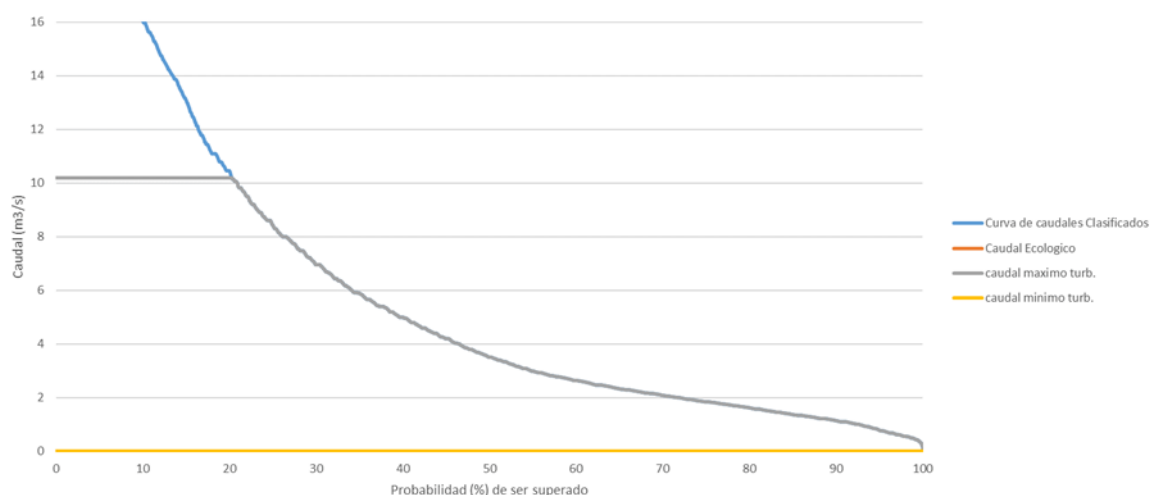


Figura 27. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	496.1105352 kW	434,592.83 kW*h
Potencia 30%	429.3265692 kW	376,090.07 kW*h
Potencia 40%	299.0612159 kW	261,977.63 kW*h
Potencia 50%	213.6568066 kW	187,163.36 kW*h
Potencia 60%	153.5202639 kW	134,483.75 kW*h
Potencia 70%	119.0580391 kW	104,294.84 kW*h
Potencia 80%	93.86813273 kW	82,228.48 kW*h
Potencia 90%	69.97266667 kW	61,296.06 kW*h
Potencia 100%	39.967943 kW	35,011.92 kW*h
TOTAL	2,411 kW	2,111,732 KWh-año
		2,112 MWh-año
	8760 horas	2.1 GWh-año

Tabla 26. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 0

3.4.2 Caudal ecológico PHJ (2015-2021)

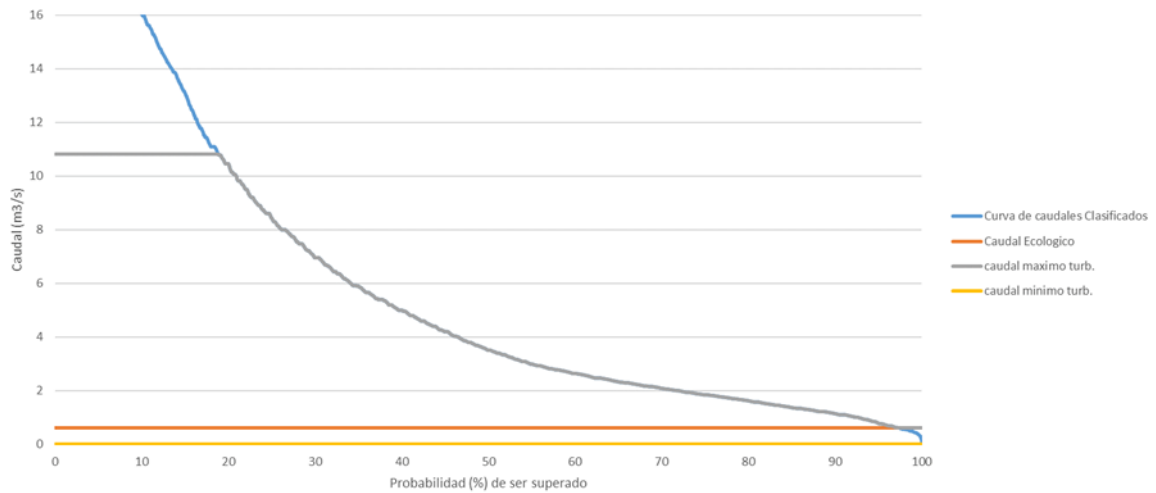


Figura 28. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	496.1105352 kW	434,592.83 kW*h
Potencia 30%	398.1063443 kW	348,741.16 kW*h
Potencia 40%	267.674631 kW	234,482.98 kW*h
Potencia 50%	182.2702218 kW	159,668.71 kW*h
Potencia 60%	122.133679 kW	106,989.10 kW*h
Potencia 70%	87.67145419 kW	76,800.19 kW*h
Potencia 80%	62.48154785 kW	54,733.84 kW*h
Potencia 90%	38.58608179 kW	33,801.41 kW*h
Potencia 100%	10.41453789 kW	9,123.14 kW*h
TOTAL	2,162 kW	1,893,526 KWh-año
		1,894 MWh-año
8760 horas		1.9 GWh-año

Tabla 27. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico del PHJ (2015-2021)

3.4.3 Caudal ecológico Q_{90}

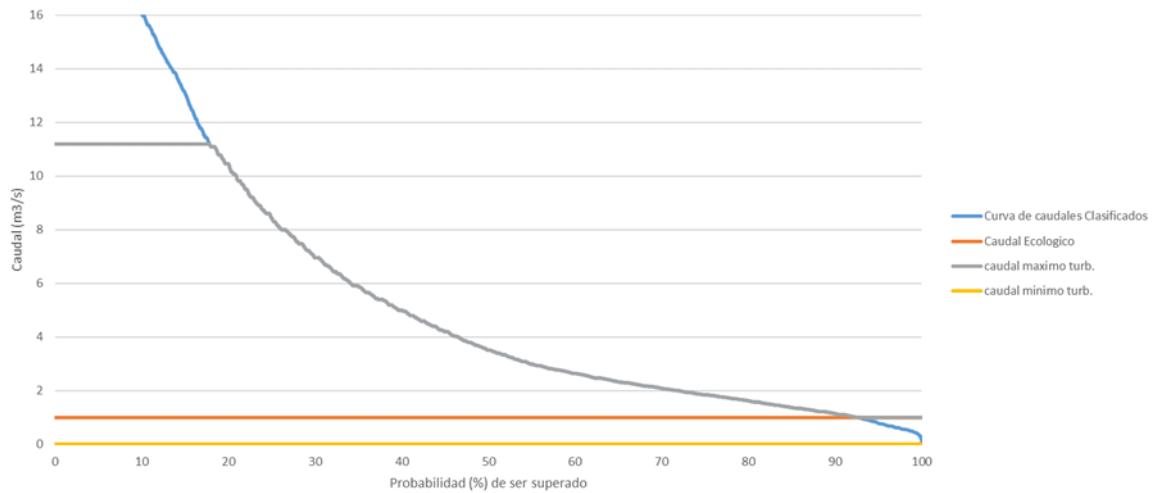


Figura 29. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	490.1179979 kW	429,343.37 kW*h
Potencia 30%	378.7030452 kW	331,743.87 kW*h
Potencia 40%	248.4376919 kW	217,631.42 kW*h
Potencia 50%	163.0332826 kW	142,817.16 kW*h
Potencia 60%	102.8967399 kW	90,137.54 kW*h
Potencia 70%	68.43451507 kW	59,948.64 kW*h
Potencia 80%	43.24460873 kW	37,882.28 kW*h
Potencia 90%	19.34914267 kW	16,949.85 kW*h
Potencia 100%	1.019178544 kW	892.80 kW*h
TOTAL	2,011 kW	1,761,940 KWh-año

Tabla 28. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1 m³/s

3.4.4 Caudal ecológico Q_{87}

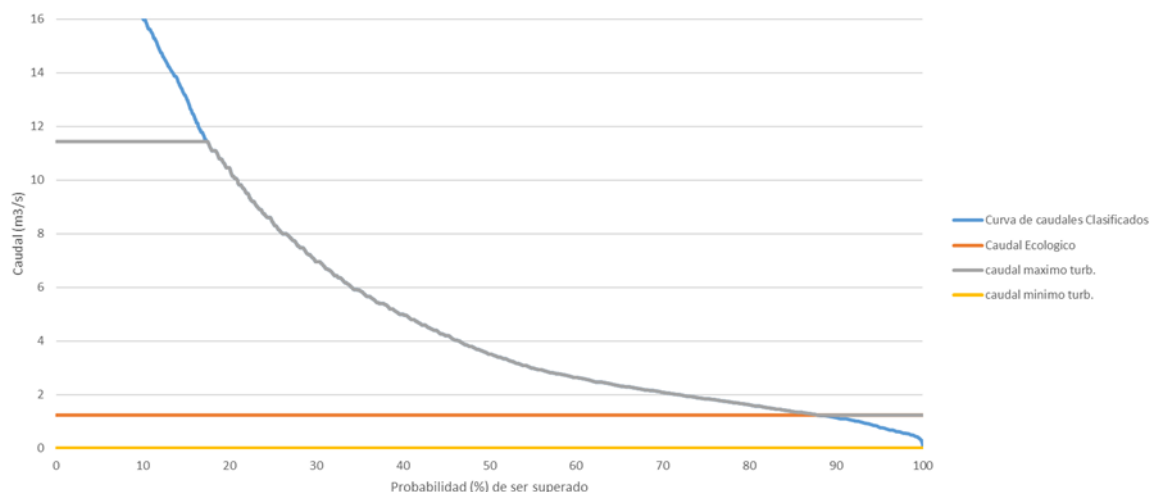


Figura 30. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1,24 m³/s

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	486.7943757 kW	426,431.87 kW*h
Potencia 30%	366.5533994 kW	321,100.78 kW*h
Potencia 40%	236.2880461 kW	206,988.33 kW*h
Potencia 50%	150.8836369 kW	132,174.07 kW*h
Potencia 60%	90.74709409 kW	79,494.45 kW*h
Potencia 70%	56.28486931 kW	49,305.55 kW*h
Potencia 80%	31.09496297 kW	27,239.19 kW*h
Potencia 90%	7.61553105 kW	6,671.21 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,922 kW	1,683,998 KWh-año
		1,684 MWh-año
	8760 horas	1.7 GWh-año

Tabla 29. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1,24 m³/s

3.4.5 Caudal ecológico Q_{75}

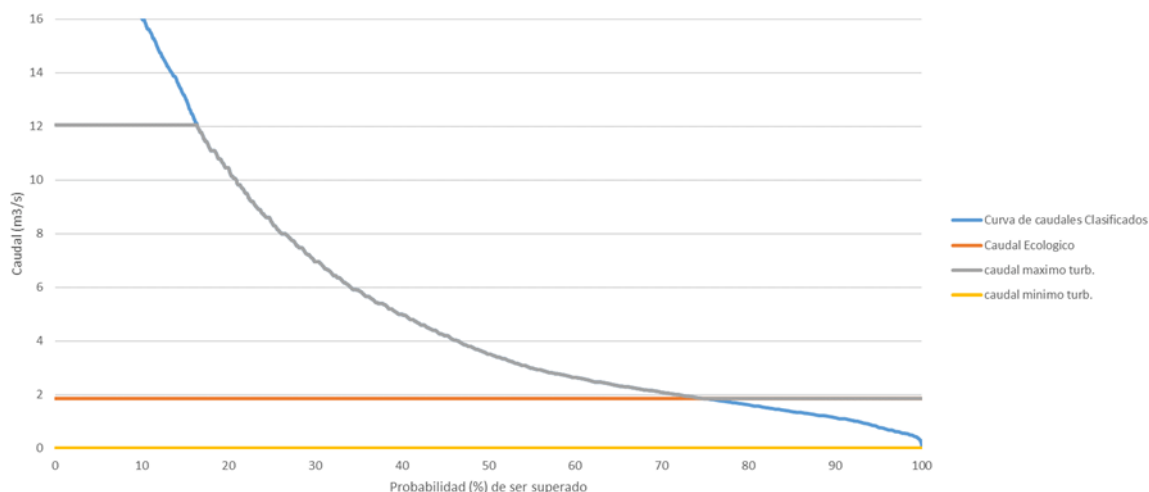


Figura 31. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 1,86 m³/s

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	468.1620568 kW	410,109.96 kW*h
Potencia 30%	335.1668145 kW	293,606.13 kW*h
Potencia 40%	204.9014613 kW	179,493.68 kW*h
Potencia 50%	119.497052 kW	104,679.42 kW*h
Potencia 60%	59.36050921 kW	51,999.81 kW*h
Potencia 70%	24.89828443 kW	21,810.90 kW*h
Potencia 80%	2.693019427 kW	2,359.09 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,711 kW	1,498,652 KWh-año
		1,499 MWh-año
8760 horas		1.5 GWh-año

Tabla 30. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 1,86 m³/s

3.4.6 Caudal ecológico Q_{70}

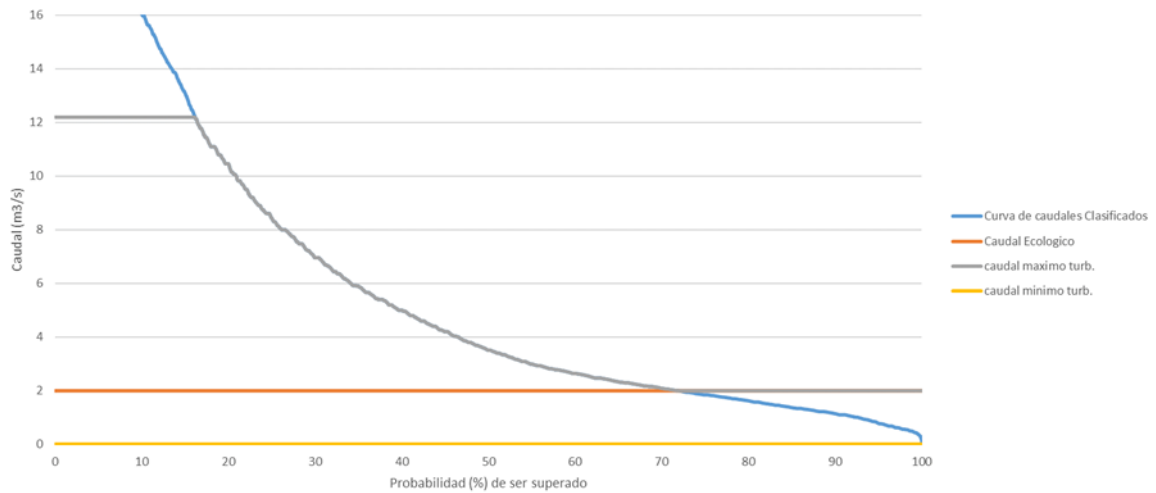


Figura 32. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	462.6596554 kW	405,289.86 kW*h
Potencia 30%	328.0795212 kW	287,397.66 kW*h
Potencia 40%	197.8141679 kW	173,285.21 kW*h
Potencia 50%	112.4097586 kW	98,470.95 kW*h
Potencia 60%	52.27321585 kW	45,791.34 kW*h
Potencia 70%	17.81099107 kW	15,602.43 kW*h
Potencia 80%	0.396804354 kW	347.60 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,668 kW	1,460,778 KWh-año
		1,461 MWh-año
8760 horas		1.5 GWh-año

Tabla 31. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 2 m³/s

3.4.7 Caudal ecológico Q_{55}

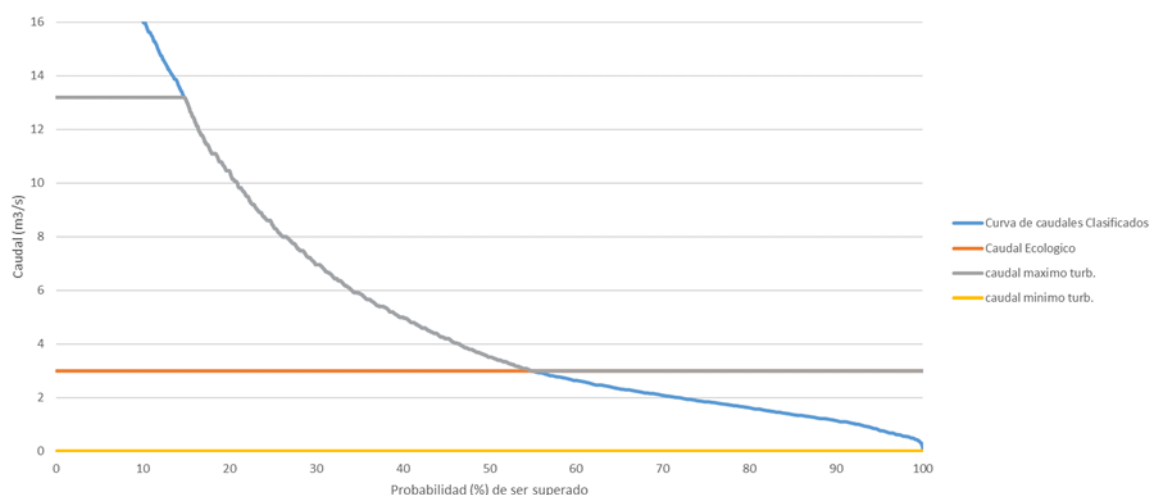


Figura 33. Rango de funcionamiento para la central hidroeléctrica Las Grajas con caudal ecológico 3 m³/s

Potencia por intervalos		Produccion
Potencia 10%	496.1105352 kW	434,592.83 kW*h
Potencia 20%	425.8100231 kW	373,009.58 kW*h
Potencia 30%	277.4559972 kW	243,051.45 kW*h
Potencia 40%	147.1906439 kW	128,939.00 kW*h
Potencia 50%	61.78623464 kW	54,124.74 kW*h
Potencia 60%	6.453202418 kW	5,653.01 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	1,415 kW	1,239,371 KWh-año
		1,239 MWh-año
8760 horas		1.2 GWh-año

Tabla 32. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Las Grajas con caudal ecológico 3 m³/s

3.5 Central hidroeléctrica El Batán

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q_{PHJ}	Q_{90}	Q_{87}	Q_{75}	Q_{70}	Q_{55}
		$2 * Q_{PHJ}$	$3 * Q_{PHJ}$		
0,62 m ³ /s	1 m ³ /s	1,24 m ³ /s	1,86 m ³ /s	2 m ³ /s	3 m ³ /s

Tabla 33. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica El Batán

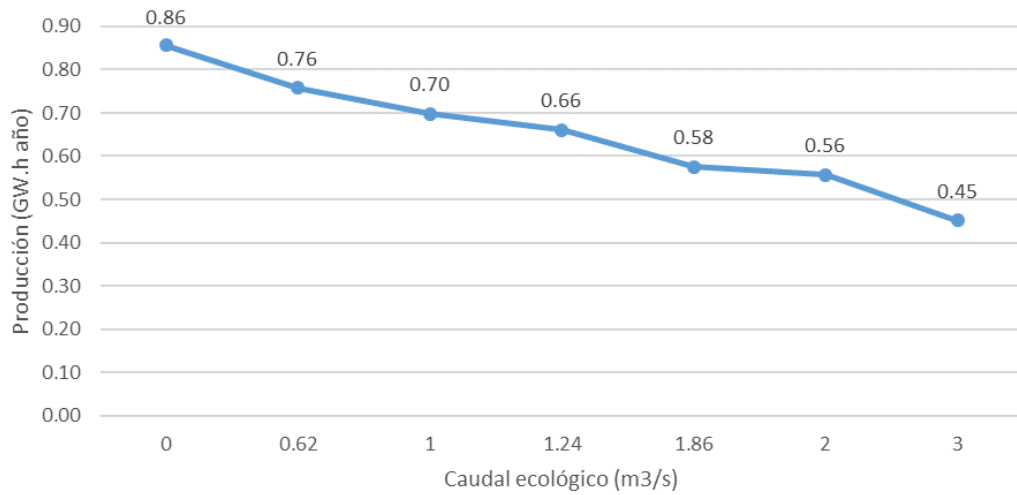


Figura 34. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de El Batán

3.5.1 Caudal ecológico 0

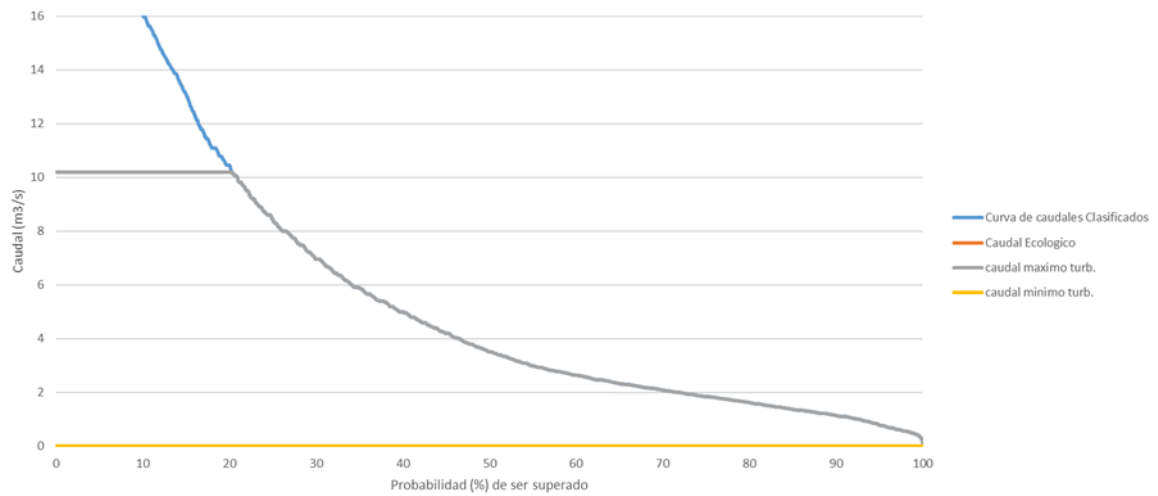


Figura 35. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	151.1473788 kW	132,405.10 kW*h
Potencia 40%	148.9149867 kW	130,449.53 kW*h
Potencia 50%	115.9851236 kW	101,602.97 kW*h
Potencia 60%	83.33957181 kW	73,005.46 kW*h
Potencia 70%	64.63150692 kW	56,617.20 kW*h
Potencia 80%	50.95698634 kW	44,638.32 kW*h
Potencia 90%	37.98516191 kW	33,275.00 kW*h
Potencia 100%	21.69688335 kW	19,006.47 kW*h
TOTAL	977 kW	855,810 KWh-año
		856 MWh-año
8760 horas		0.9 GWh-año

Tabla 34. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 0

3.5.2 Caudal ecológico PHJ (2015-2021)

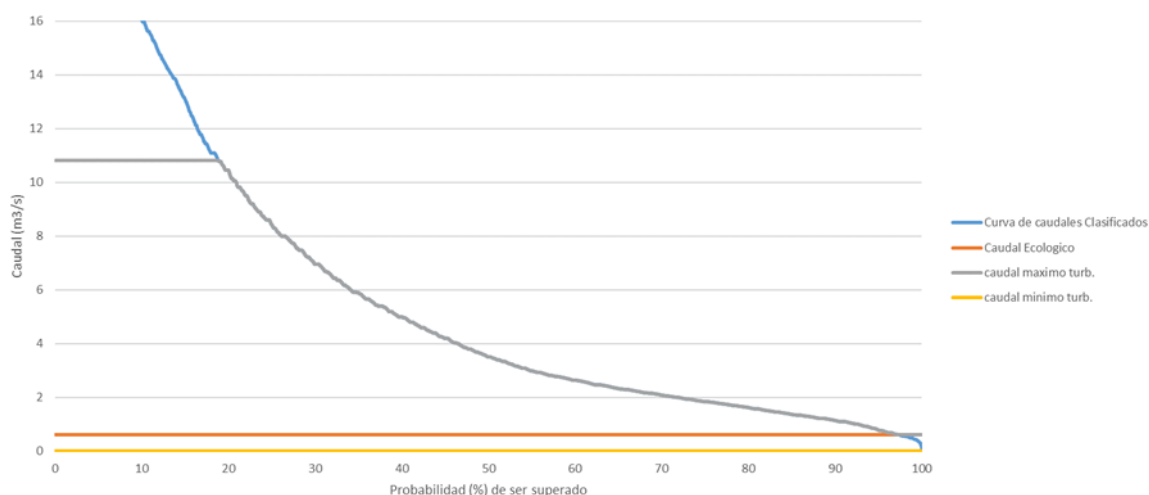


Figura 36. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	151.1473788 kW	132,405.10 kW*h
Potencia 40%	138.2227316 kW	121,083.11 kW*h
Potencia 50%	98.94669181 kW	86,677.30 kW*h
Potencia 60%	66.30114001 kW	58,079.80 kW*h
Potencia 70%	47.59307513 kW	41,691.53 kW*h
Potencia 80%	33.91855455 kW	29,712.65 kW*h
Potencia 90%	20.94673012 kW	18,349.34 kW*h
Potencia 100%	5.653606284 kW	4,952.56 kW*h
TOTAL	865 kW	757,762 KWh-año
		758 MWh-año
8760 horas		0.8 GWh-año

Tabla 35. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico del PHJ (2015-2021)

3.5.3 Caudal ecológico Q_{90}

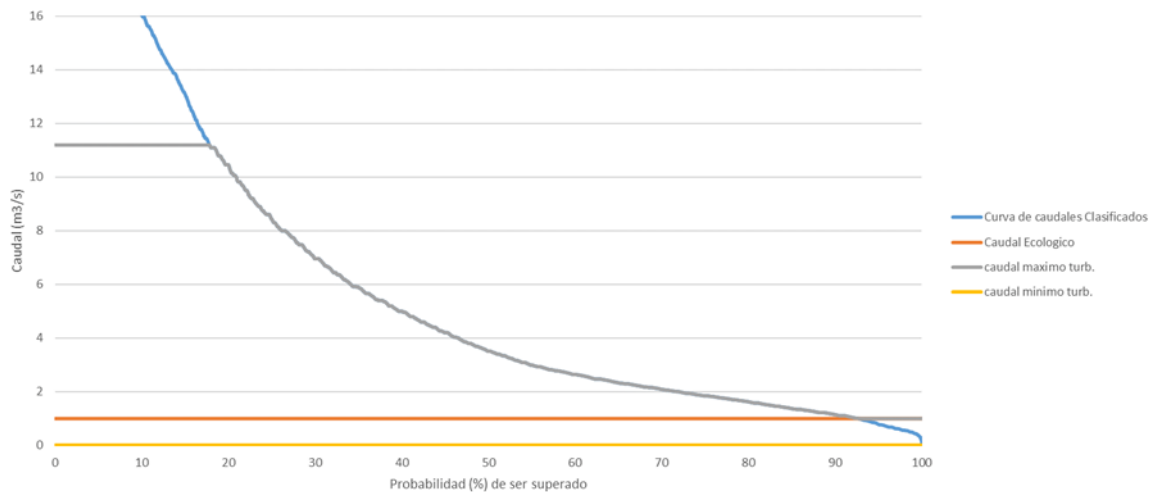


Figura 37. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	151.1473788 kW	132,405.10 kW*h
Potencia 40%	126.8668495 kW	111,135.36 kW*h
Potencia 50%	88.50378201 kW	77,529.31 kW*h
Potencia 60%	55.85823021 kW	48,931.81 kW*h
Potencia 70%	37.15016532 kW	32,543.54 kW*h
Potencia 80%	23.47564474 kW	20,564.66 kW*h
Potencia 90%	10.50382031 kW	9,201.35 kW*h
Potencia 100%	0.553268353 kW	484.66 kW*h
TOTAL	796 kW	697,606 KWh-año

698 MWh-año
0.7 GWh-año

8760 horas

Tabla 36. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1 m³/s

3.5.4 Caudal ecológico Q₈₇

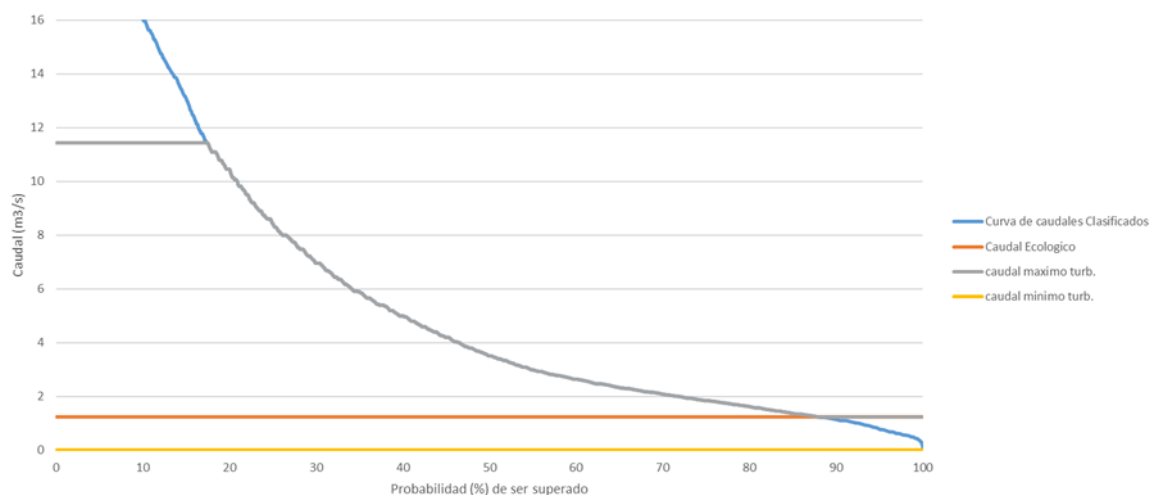


Figura 38. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1,24 m³/s

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	151.1473788 kW	132,405.10 kW*h
Potencia 40%	118.3570932 kW	103,680.81 kW*h
Potencia 50%	81.90826002 kW	71,751.64 kW*h
Potencia 60%	49.26270822 kW	43,154.13 kW*h
Potencia 70%	30.55464334 kW	26,765.87 kW*h
Potencia 80%	16.88012276 kW	14,786.99 kW*h
Potencia 90%	4.134145427 kW	3,621.51 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	755 kW	660,976 KWh-año

661 MWh-año
0.7 GWh-año

8760 horas

Tabla 37. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1,24 m³/s

3.5.5 Caudal ecológico Q₇₅

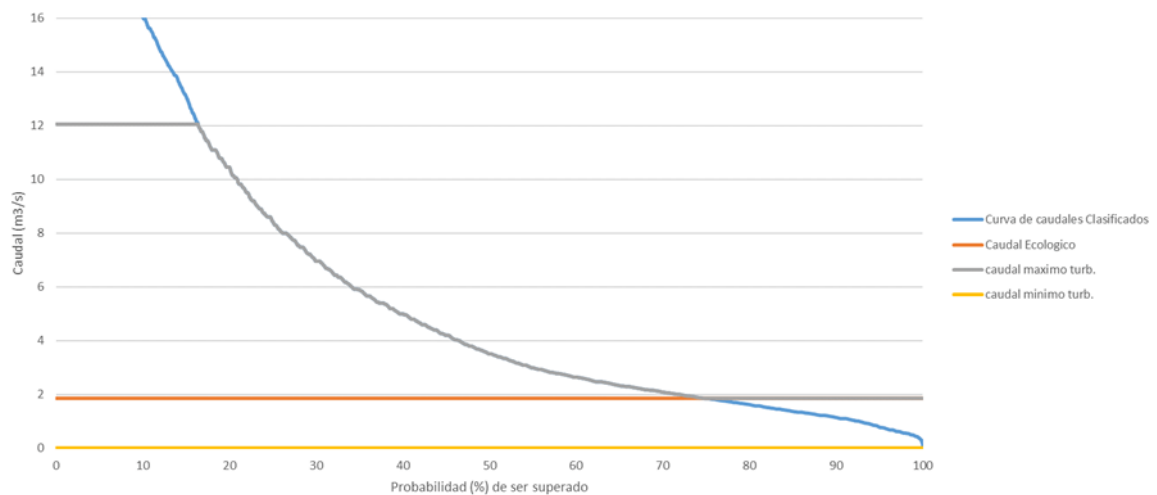


Figura 39. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 1,86 m³/s

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	144.7805443 kW	126,827.76 kW*h
Potencia 40%	97.79969133 kW	85,672.53 kW*h
Potencia 50%	64.86982823 kW	56,825.97 kW*h
Potencia 60%	32.22427643 kW	28,228.47 kW*h
Potencia 70%	13.51621155 kW	11,840.20 kW*h
Potencia 80%	1.461924832 kW	1,280.65 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	657 kW	575,486 KWh-año
		575 MWh-año
8760 horas		0.6 GWh-año

Tabla 38. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 1,86 m³/s

3.5.6 Caudal ecológico Q₇₀

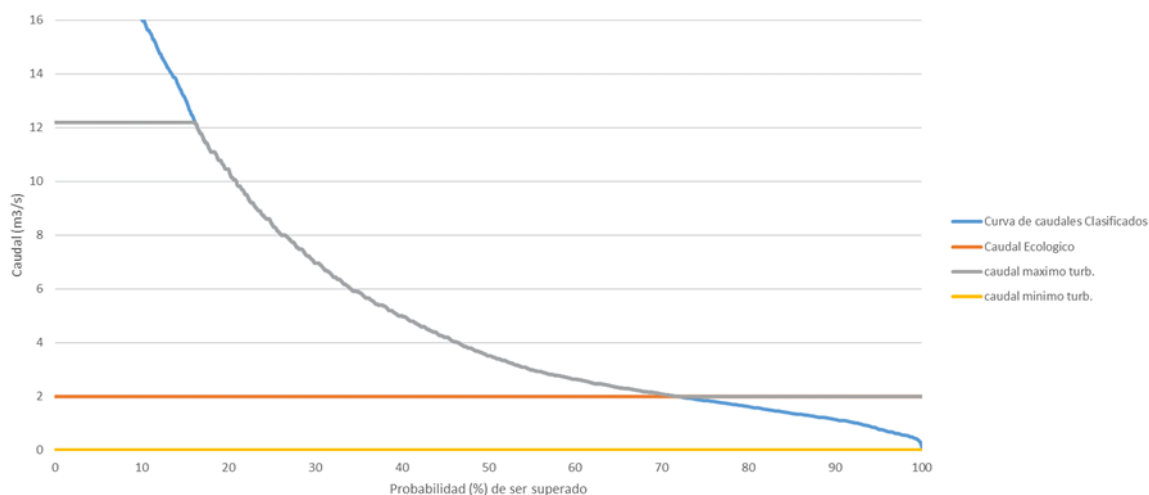


Figura 40. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	140.6597997 kW	123,217.98 kW*h
Potencia 40%	93.95230351 kW	82,302.22 kW*h
Potencia 50%	61.02244041 kW	53,455.66 kW*h
Potencia 60%	28.37688861 kW	24,858.15 kW*h
Potencia 70%	9.668823722 kW	8,469.89 kW*h
Potencia 80%	0.215408078 kW	188.70 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	636 kW	557,303 KWh-año

557 MWh-año
0.6 GWh-año

8760 horas

Tabla 39. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 2 m³/s

3.5.7 Caudal ecológico Q₅₅

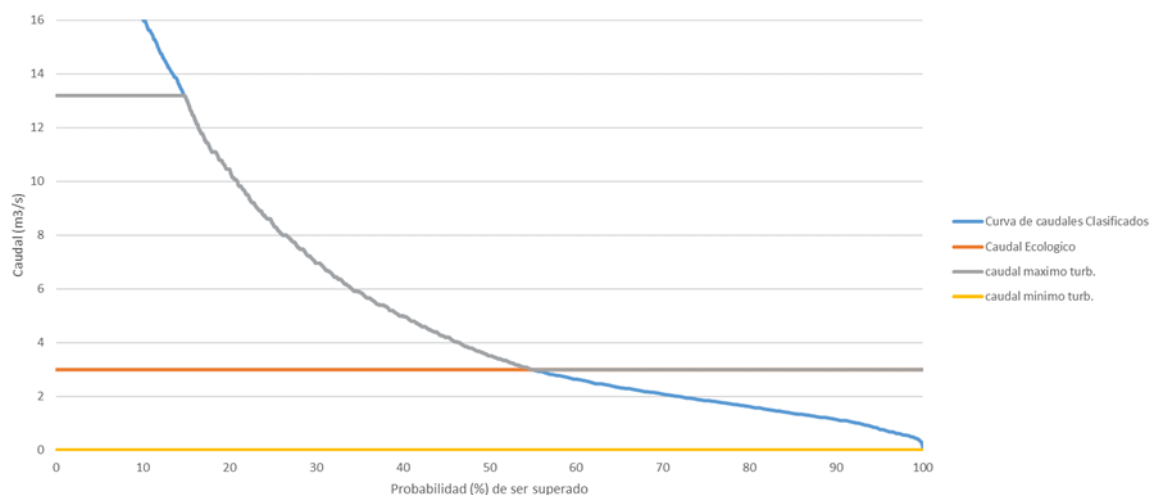


Figura 41. Rango de funcionamiento para la central hidroeléctrica El Batán con caudal ecológico 3 m³/s

Potencia por intervalos		Produccion
Potencia 10%	151.1473788 kW	132,405.10 kW*h
Potencia 20%	151.1473788 kW	132,405.10 kW*h
Potencia 30%	108.9785711 kW	95,465.23 kW*h
Potencia 40%	66.47096191 kW	58,228.56 kW*h
Potencia 50%	33.54109881 kW	29,382.00 kW*h
Potencia 60%	3.503167027 kW	3,068.77 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	515 kW	450,955 KWh-año
		451 MWh-año
8760 horas		0.5 GWh-año

Tabla 40. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Batán con caudal ecológico 3 m³/s

3.6 Central hidroeléctrica Molino de Santiago

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q _{PHJ}	Q ₉₀	Q ₈₇	Q ₇₅	Q ₇₀	Q ₅₅
		2*Q _{PHJ}	3*Q _{PHJ}		
0,62 m ³ /s	1 m ³ /s	1,24 m ³ /s	1,86 m ³ /s	2 m ³ /s	3 m ³ /s

Tabla 41. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica Molino de Santiago

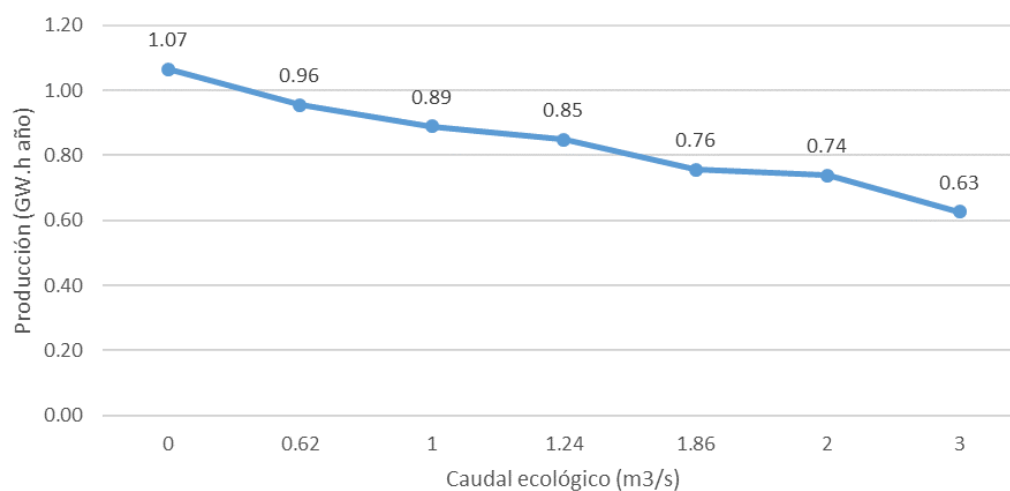


Figura 42. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de Molino de Santiago

3.6.1 Caudal ecológico 0

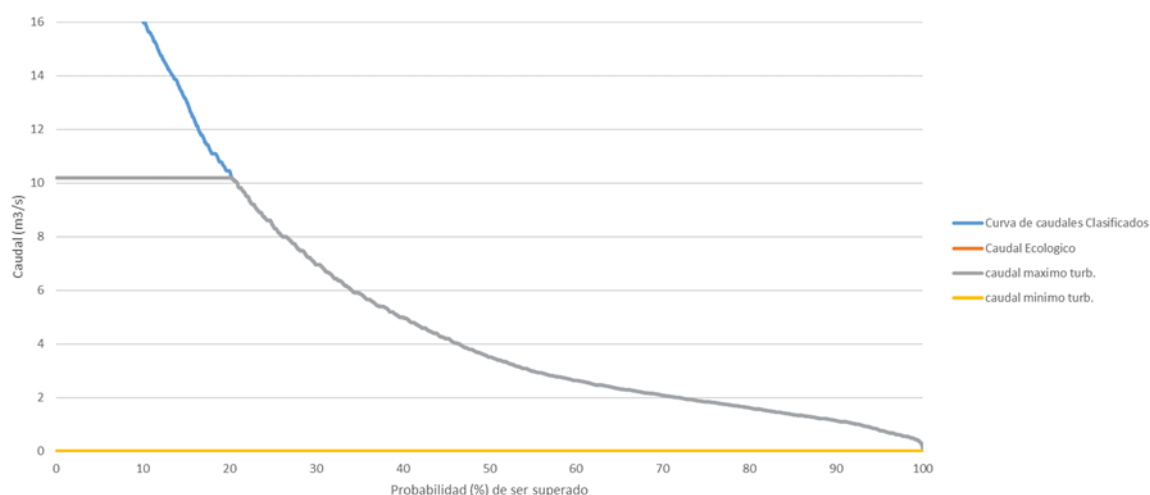


Figura 43. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	253.11762 kW	221,731.04 kW*h
Potencia 30%	215.1897782 kW	188,506.25 kW*h
Potencia 40%	149.530608 kW	130,988.81 kW*h
Potencia 50%	106.8284033 kW	93,581.68 kW*h
Potencia 60%	76.76013193 kW	67,241.88 kW*h
Potencia 70%	59.52901953 kW	52,147.42 kW*h
Potencia 80%	46.93406637 kW	41,114.24 kW*h
Potencia 90%	34.98633334 kW	30,648.03 kW*h
Potencia 100%	19.9839715 kW	17,505.96 kW*h
TOTAL	1,216 kW	1,065,196 KWh-año
		1,065 MWh-año
8760 horas		1.1 GWh-año

Tabla 42. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 0

3.6.2 Caudal ecológico PHJ (2015-2021)

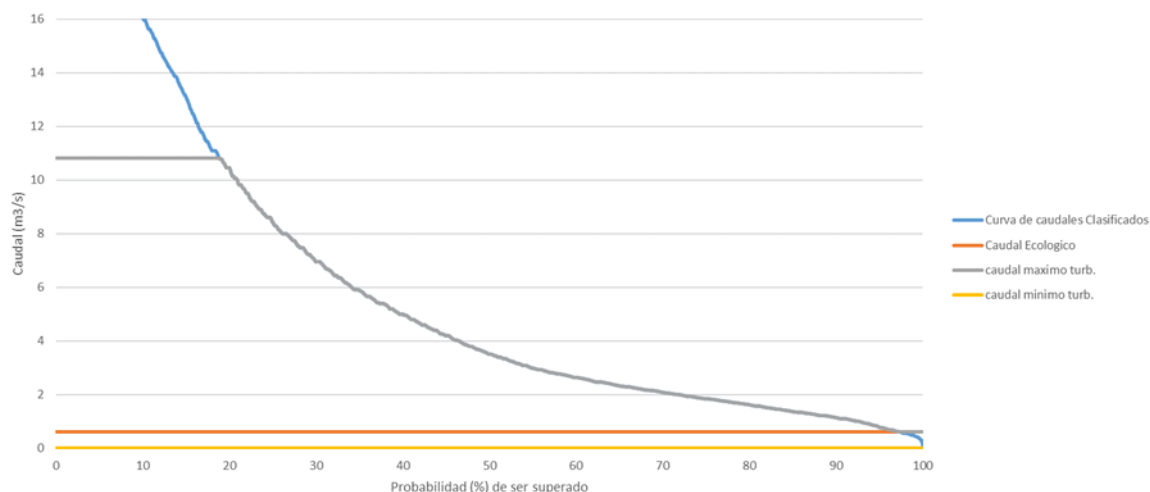


Figura 44. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	252.1749134 kW	220,905.22 kW*h
Potencia 30%	199.4964857 kW	174,758.92 kW*h
Potencia 40%	133.8373155 kW	117,241.49 kW*h
Potencia 50%	91.13511088 kW	79,834.36 kW*h
Potencia 60%	61.06683949 kW	53,494.55 kW*h
Potencia 70%	43.83572709 kW	38,400.10 kW*h
Potencia 80%	31.24077393 kW	27,366.92 kW*h
Potencia 90%	19.2930409 kW	16,900.70 kW*h
Potencia 100%	5.207268946 kW	4,561.57 kW*h
TOTAL	1,090 kW	955,195 KWh-año
		955 MWh-año
	8760 horas	1.0 GWh-año

Tabla 43. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico del PHJ (2015-2021)

3.6.3 Caudal ecológico Q_{90}

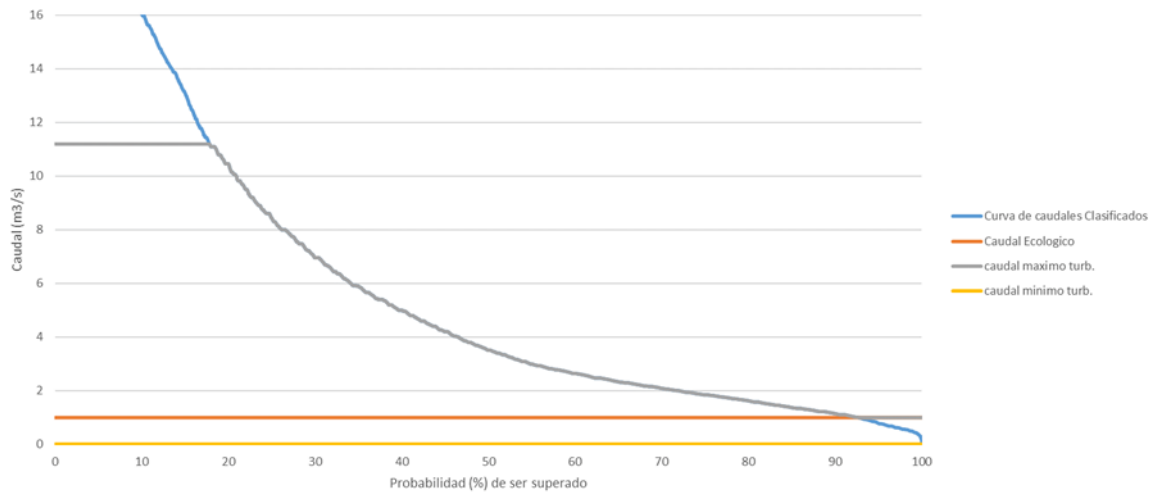


Figura 45. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	249.5399858 kW	218,597.03 kW*h
Potencia 30%	189.8780162 kW	166,333.14 kW*h
Potencia 40%	124.218846 kW	108,815.71 kW*h
Potencia 50%	81.51664132 kW	71,408.58 kW*h
Potencia 60%	51.44836993 kW	45,068.77 kW*h
Potencia 70%	34.21725753 kW	29,974.32 kW*h
Potencia 80%	21.62230437 kW	18,941.14 kW*h
Potencia 90%	9.674571336 kW	8,474.92 kW*h
Potencia 100%	0.509589272 kW	446.40 kW*h
TOTAL	1,016 kW	889,791 KWh-año
		890 MWh-año
	8760 horas	0.9 GWh-año

Tabla 44. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1 m³/s

3.6.4 Caudal ecológico Q_{87}

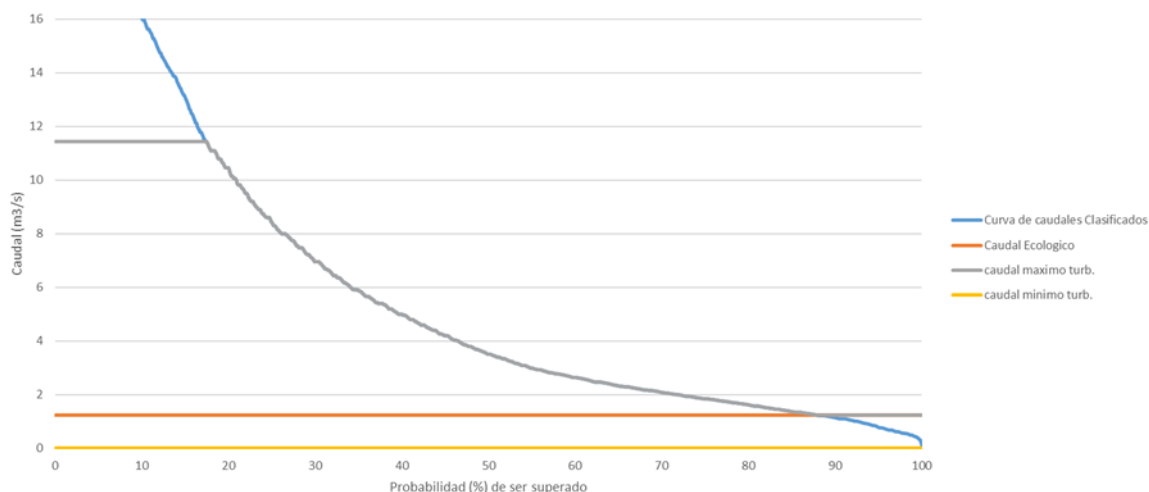


Figura 46. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1,24 m³/s

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	246.0195937 kW	215,513.16 kW*h
Potencia 30%	183.8031933 kW	161,011.60 kW*h
Potencia 40%	118.1440231 kW	103,494.16 kW*h
Potencia 50%	75.44181844 kW	66,087.03 kW*h
Potencia 60%	45.37354705 kW	39,747.23 kW*h
Potencia 70%	28.14243465 kW	24,652.77 kW*h
Potencia 80%	15.54748149 kW	13,619.59 kW*h
Potencia 90%	3.807765525 kW	3,335.60 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	969 kW	849,192 KWh-año
		849 MWh-año
	8760 horas	0.8 GWh-año

Tabla 45. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1,24 m³/s

3.6.5 Caudal ecológico Q_{75}

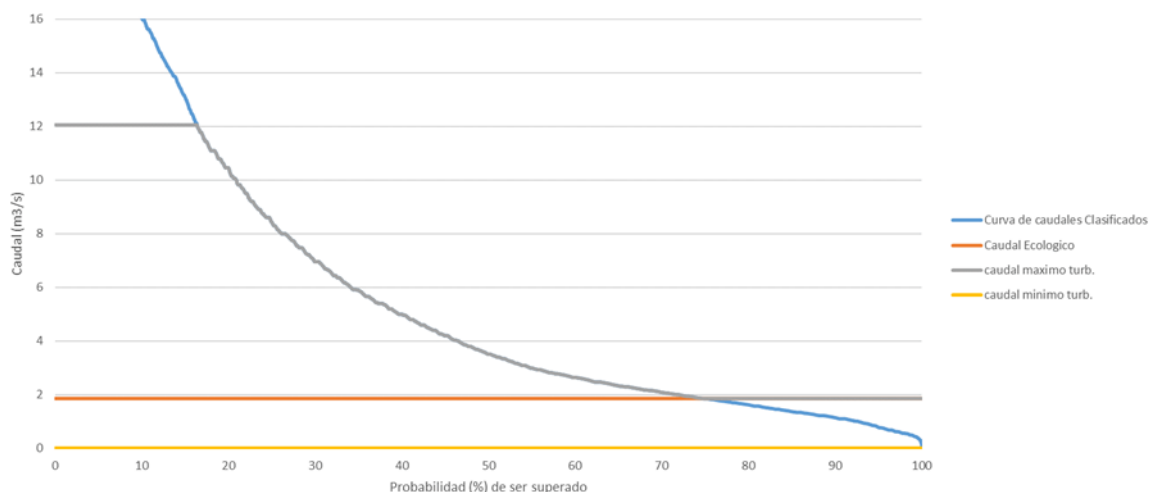


Figura 47. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 1,86 m³/s

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	237.3550109 kW	207,922.99 kW*h
Potencia 30%	168.1099009 kW	147,264.27 kW*h
Potencia 40%	102.4507306 kW	89,746.84 kW*h
Potencia 50%	59.748526 kW	52,339.71 kW*h
Potencia 60%	29.68025461 kW	25,999.90 kW*h
Potencia 70%	12.44914221 kW	10,905.45 kW*h
Potencia 80%	1.346509714 kW	1,179.54 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	864 kW	757,090 kWh-año
		757 MWh-año
8760 horas		0.8 GWh-año

Tabla 46. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 1,86 m³/s

3.6.6 Caudal ecológico Q_{70}

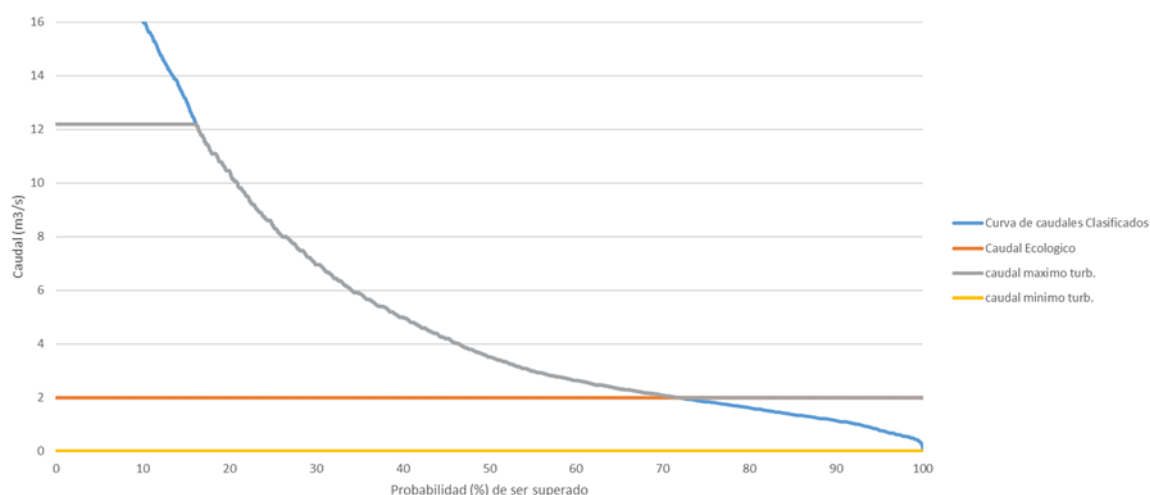


Figura 48. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 2 m³/s

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	235.0058468 kW	205,865.12 kW*h
Potencia 30%	164.5662542 kW	144,160.04 kW*h
Potencia 40%	98.90708395 kW	86,642.61 kW*h
Potencia 50%	56.20487932 kW	49,235.47 kW*h
Potencia 60%	26.13660793 kW	22,895.67 kW*h
Potencia 70%	8.905495533 kW	7,801.21 kW*h
Potencia 80%	0.198402177 kW	173.80 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	843 kW	738,505 KWh-año
		739 MWh-año
8760 horas		0.7 GWh-año

Tabla 47. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 2 m³/s

3.6.7 Caudal ecológico Q_{55}

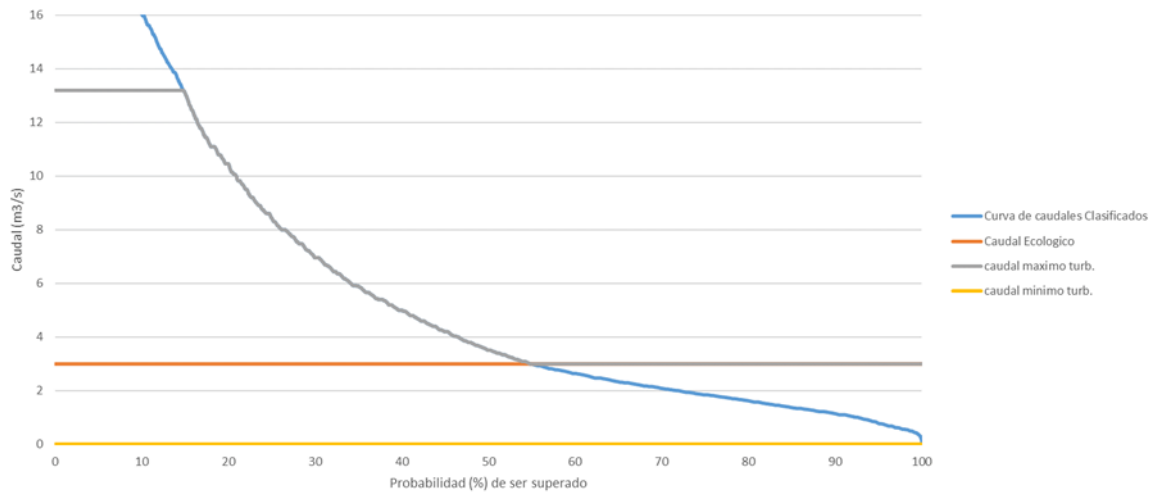


Figura 49. Rango de funcionamiento para la central hidroeléctrica Molino de Santiago con caudal ecológico 3 m³/s

Potencia por intervalos		Produccion
Potencia 10%	253.11762 kW	221,731.04 kW*h
Potencia 20%	216.0220253 kW	189,235.29 kW*h
Potencia 30%	139.2544922 kW	121,986.94 kW*h
Potencia 40%	73.59532195 kW	64,469.50 kW*h
Potencia 50%	30.89311732 kW	27,062.37 kW*h
Potencia 60%	3.226601209 kW	2,826.50 kW*h
Potencia 70%	0 kW	0.00 kW*h
Potencia 80%	0 kW	0.00 kW*h
Potencia 90%	0 kW	0.00 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	716 kW	627,312 KWh-año
		627 MWh-año
	8760 horas	0.6 GWh-año

Tabla 48. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de Molino de Santiago con caudal ecológico 3 m³/s

3.7 Central hidroeléctrica El Castellar

RANGO DE CAUDALES ECOLÓGICOS ESTUDIADOS					
Q_{PHJ}	Q_{100}	Q_{99}	Q_{96}	Q_{95}	Q_{82}
		$2 * Q_{PHJ}$		$3 * Q_{PHJ}$	
$0,62 \text{ m}^3/\text{s}$	$1 \text{ m}^3/\text{s}$	$1,24 \text{ m}^3/\text{s}$	$1,86 \text{ m}^3/\text{s}$	$2 \text{ m}^3/\text{s}$	$3 \text{ m}^3/\text{s}$

Tabla 49. Rango de caudales ecológicos mínimos estudiados para la central hidroeléctrica El Castellar

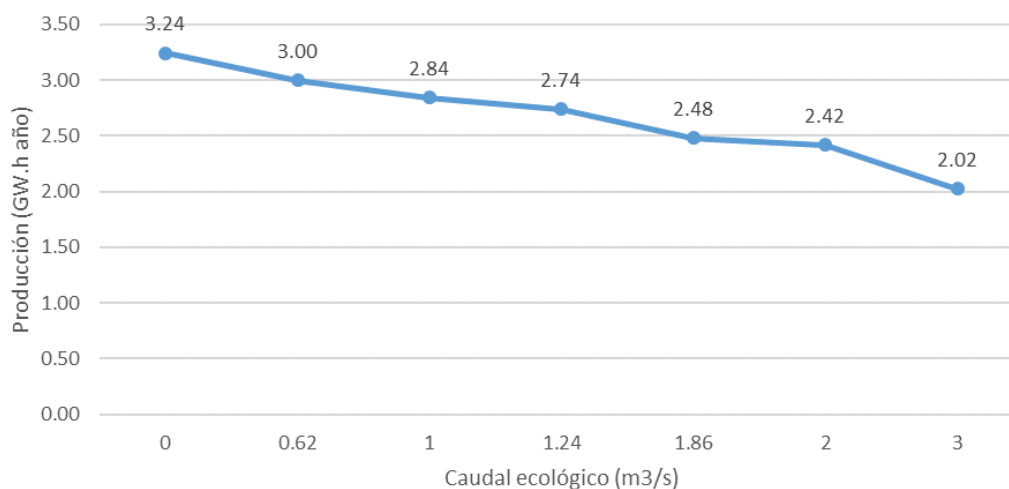


Figura 50. Grafica de la variación de la producción potencial anual en función del caudal ecológico para la central de El Castellar

3.7.1 Caudal ecológico 0

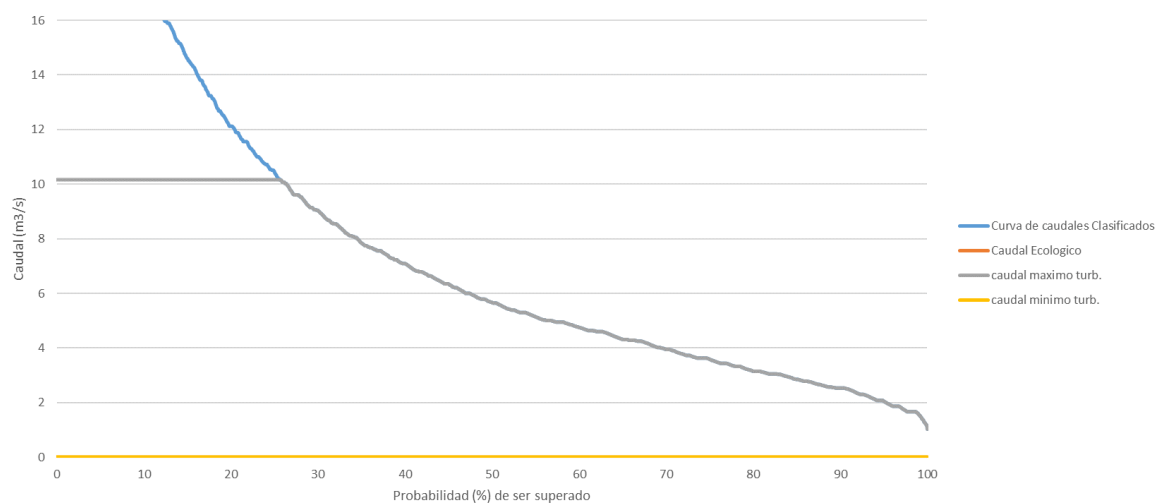


Figura 51. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 0

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	602.5067188 kW	527,795.89 kW*h
Potencia 30%	586.7964977 kW	514,033.73 kW*h
Potencia 40%	470.5120185 kW	412,168.53 kW*h
Potencia 50%	375.289457 kW	328,753.56 kW*h
Potencia 60%	306.8452298 kW	268,796.42 kW*h
Potencia 70%	258.8591893 kW	226,760.65 kW*h
Potencia 80%	211.0644772 kW	184,892.48 kW*h
Potencia 90%	169.1963287 kW	148,215.98 kW*h
Potencia 100%	118.8792393 kW	104,138.21 kW*h
TOTAL	3,702 kW	3,243,351 KWh-año
		3,243 MWh-año
8760 horas		3.2 GWh-año

Tabla 50. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 0

3.7.2 Caudal ecológico PHJ (2015-2021)

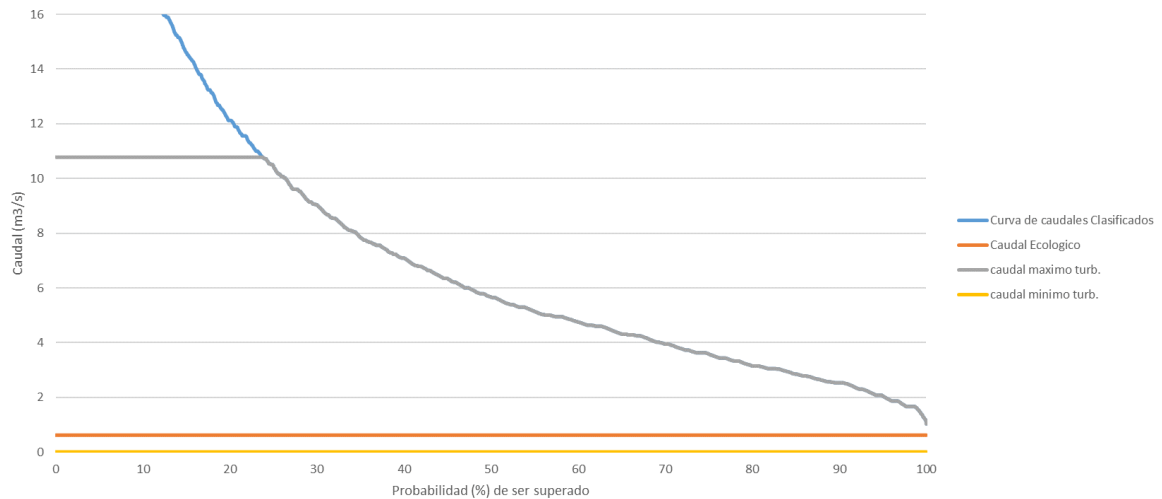


Figura 52. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico del PHJ (2015-2021)

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	602.5067188 kW	527,795.89 kW*h
Potencia 30%	563.8332737 kW	493,917.95 kW*h
Potencia 40%	433.7448762 kW	379,960.51 kW*h
Potencia 50%	338.5223147 kW	296,545.55 kW*h
Potencia 60%	270.0780875 kW	236,588.40 kW*h
Potencia 70%	222.092047 kW	194,552.63 kW*h
Potencia 80%	174.2973349 kW	152,684.47 kW*h
Potencia 90%	132.4291864 kW	116,007.97 kW*h
Potencia 100%	82.11209701 kW	71,930.20 kW*h
TOTAL	3,422 kW	2,997,779 KWh-año
		2,998 MWh-año
8760 horas		3.0 GWh-año

Tabla 51. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico del PHJ (2015-2021)

3.7.3 Caudal ecológico Q_{100}

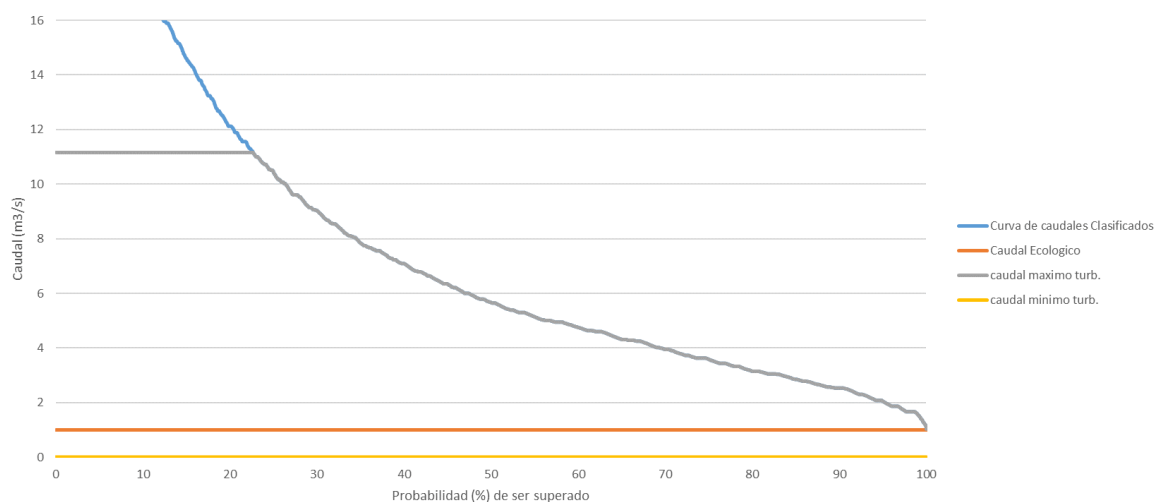


Figura 53. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1 m³/s

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	602.5067188 kW	527,795.89 kW*h
Potencia 30%	543.2630781 kW	475,898.46 kW*h
Potencia 40%	411.2101761 kW	360,220.11 kW*h
Potencia 50%	315.9876146 kW	276,805.15 kW*h
Potencia 60%	247.5433874 kW	216,848.01 kW*h
Potencia 70%	199.5573469 kW	174,812.24 kW*h
Potencia 80%	151.7626348 kW	132,944.07 kW*h
Potencia 90%	109.8944863 kW	96,267.57 kW*h
Potencia 100%	59.5773969 kW	52,189.80 kW*h
TOTAL	3,244 kW	2,841,577 KWh-año

2,842 MWh-año
2.8 GWh-año

8760 horas

Tabla 52. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1 m³/s

3.7.4 Caudal ecológico Q₉₉

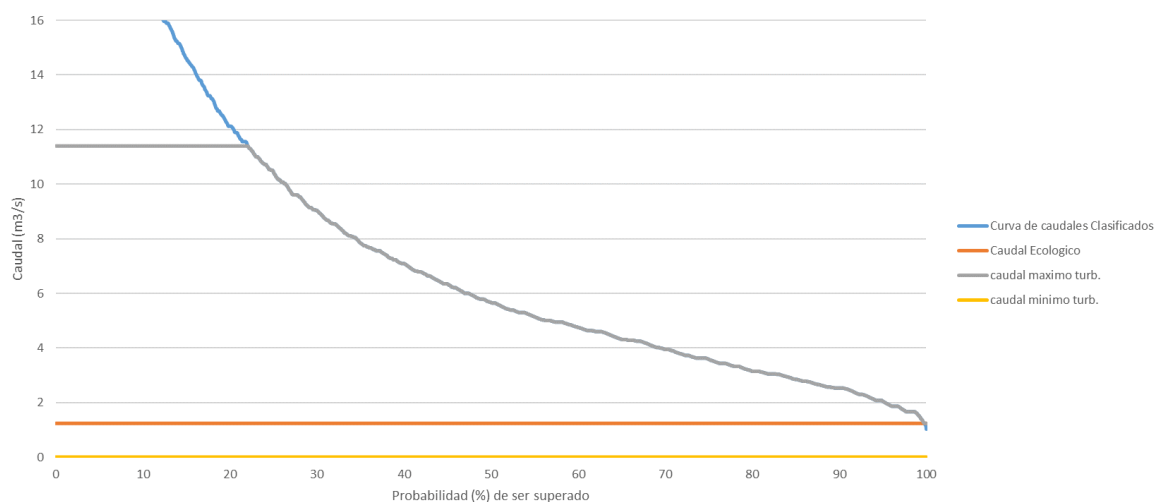


Figura 54. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1,24 m³/s

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	602.5067188 kW	527,795.89 kW*h
Potencia 30%	528.3328439 kW	462,819.57 kW*h
Potencia 40%	396.9777339 kW	347,752.49 kW*h
Potencia 50%	301.7551724 kW	264,337.53 kW*h
Potencia 60%	233.3109452 kW	204,380.39 kW*h
Potencia 70%	185.3249047 kW	162,344.62 kW*h
Potencia 80%	137.5301926 kW	120,476.45 kW*h
Potencia 90%	95.66204413 kW	83,799.95 kW*h
Potencia 100%	45.43228349 kW	39,798.68 kW*h
TOTAL	3,129 kW	2,741,301 KWh-año

2,741 MWh-año
2.7 GWh-año

8760 horas

Tabla 53. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1,24 m³/s

3.7.5 Caudal ecológico Q₉₆

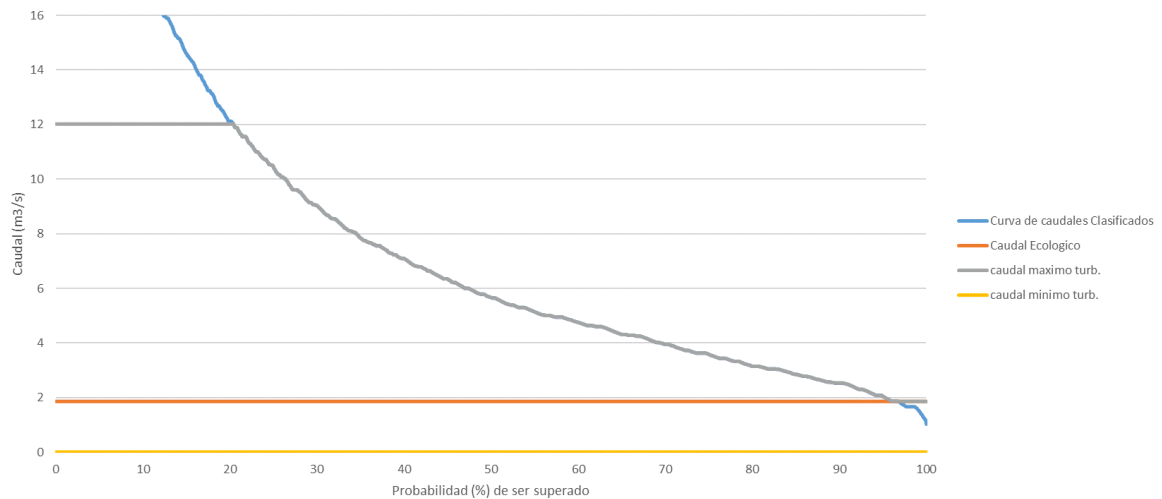


Figura 55. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 1,86 m³/s

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	602.5067188 kW	527,795.89 kW*h
Potencia 30%	480.8798449 kW	421,250.74 kW*h
Potencia 40%	360.2105916 kW	315,544.48 kW*h
Potencia 50%	264.9880301 kW	232,129.51 kW*h
Potencia 60%	196.5438029 kW	172,172.37 kW*h
Potencia 70%	148.5577625 kW	130,136.60 kW*h
Potencia 80%	100.7630503 kW	88,268.43 kW*h
Potencia 90%	58.89490184 kW	51,591.93 kW*h
Potencia 100%	13.65157749 kW	11,958.78 kW*h
TOTAL	2,830 kW	2,478,645 KWh-año
		2,479 MWh-año
	8760 horas	2.5 GWh-año

Tabla 54. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 1,86 m3/s

3.7.6 Caudal ecológico Q_{95}

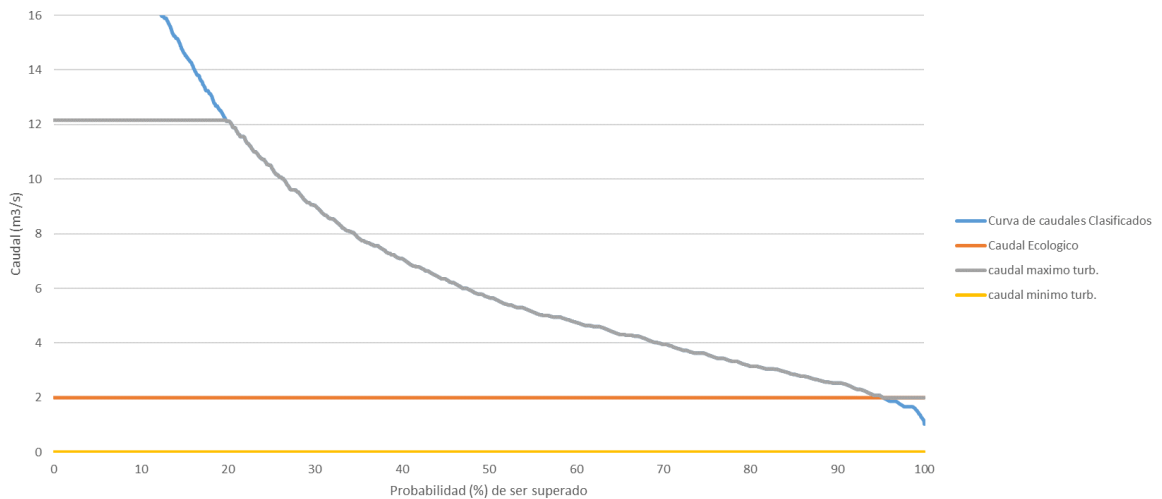


Figura 56. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 2 m3/s

Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	599.7826059 kW	525,409.56 kW*h
Potencia 30%	468.1928129 kW	410,136.90 kW*h
Potencia 40%	351.9083337 kW	308,271.70 kW*h
Potencia 50%	256.6857722 kW	224,856.74 kW*h
Potencia 60%	188.241545 kW	164,899.59 kW*h
Potencia 70%	140.2555045 kW	122,863.82 kW*h
Potencia 80%	92.46079238 kW	80,995.65 kW*h
Potencia 90%	50.59264391 kW	44,319.16 kW*h
Potencia 100%	8.949549071 kW	7,839.80 kW*h
TOTAL	2,760 kW	2,417,389 KWh-año

2,417 MWh-año
2.4 GWh-año

8760 horas

Tabla 55. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 2 m³/s

3.7.7 Caudal ecológico Q₈₂

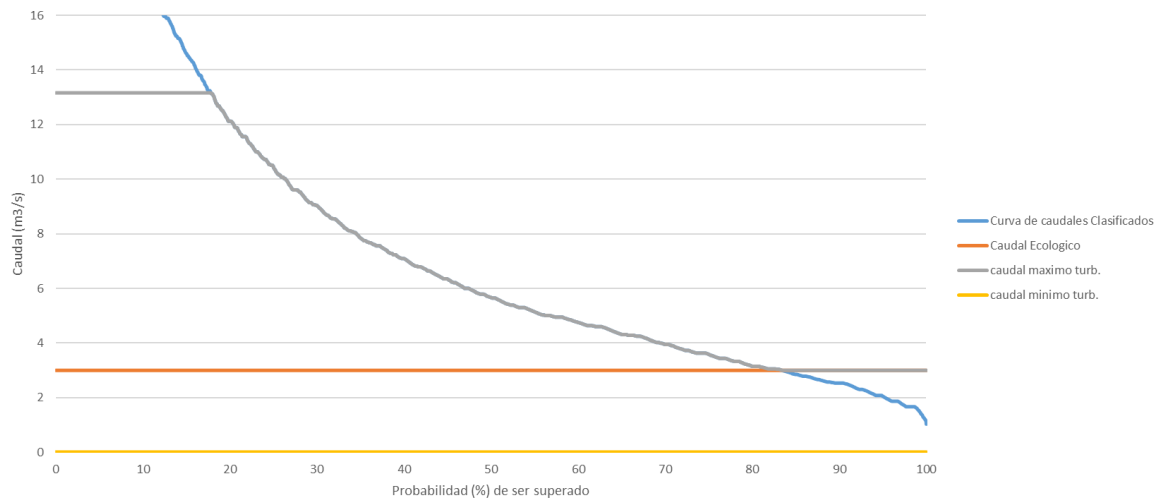


Figura 57. Rango de funcionamiento para la central hidroeléctrica El Castellar con caudal ecológico 3 m³/s



Adecuación de la producción energética de las centrales hidroeléctricas al cumplimiento de los caudales ecológicos en la Demarcación del Júcar. Cabecera río Júcar.
Anejo II: Cálculo.



Potencia por intervalos		Produccion
Potencia 10%	602.5067188 kW	527,795.89 kW*h
Potencia 20%	564.3167514 kW	494,341.47 kW*h
Potencia 30%	408.8909705 kW	358,188.49 kW*h
Potencia 40%	292.6064913 kW	256,323.29 kW*h
Potencia 50%	197.3839298 kW	172,908.32 kW*h
Potencia 60%	128.9397026 kW	112,951.18 kW*h
Potencia 70%	80.95366213 kW	70,915.41 kW*h
Potencia 80%	33.15894998 kW	29,047.24 kW*h
Potencia 90%	1.67344351 kW	1,465.94 kW*h
Potencia 100%	0 kW	0.00 kW*h
TOTAL	2,310 kW	2,023,937 KWh-año

2,024 MWh-año

8760 horas

2.0 GWh-año

Tabla 56. Cálculo de la potencia y la producción por intervalos de probabilidad de ocurrencia para la central hidroeléctrica de El Castellar con caudal ecológico 3 m³/s

4 Reducción de ingresos.

Una vez obtenidas las producciones anuales potenciales para cada central, se obtendrá la reducción de los ingresos de estas para el rango de caudales ecológicos mínimos estudiados. En primera instancia, se ha calculado los ingresos anuales potenciales de las centrales. Esto se ha efectuado mediante la media del coste de compra de la energía del MWh para el periodo de años entre 2013 a 2016 para cada una de las centrales. Con este precio estimado del MWh, se ha calculado las ganancias para cada escenario, y así, comparándolas con la ganancia potencial en la situación inicial, se obtiene la reducción de los ingresos de cada una de las centrales para el rango de caudales ecológicos mínimos estudiado.

4.1 Central hidroeléctrica La Toba

Coste medio MWh: 45,71 €

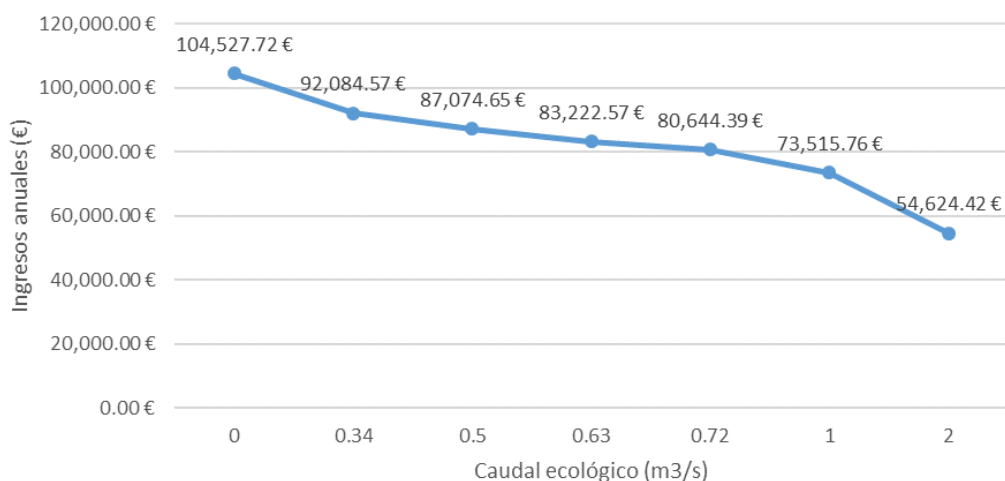


Figura 58. Grafica de los ingresos generados en el rango de caudales mínimos para La Toba

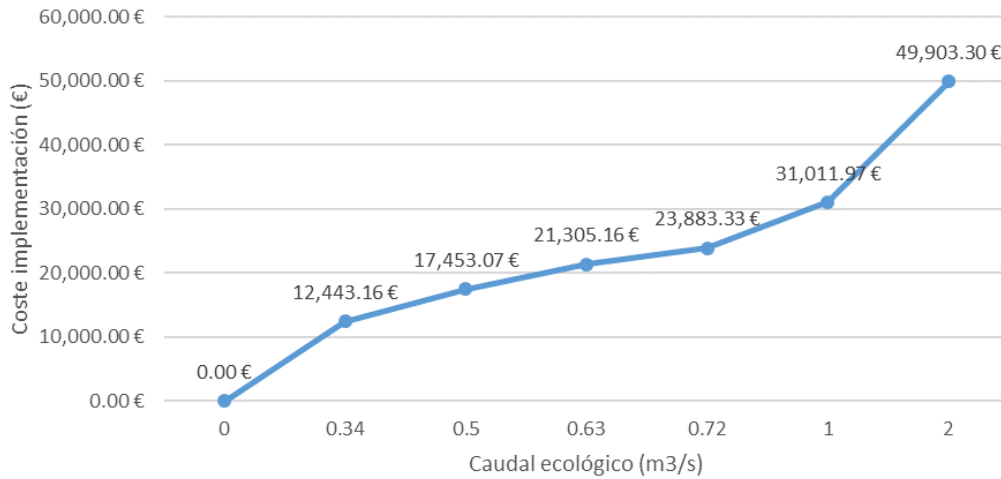


Figura 59. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en La Toba

4.2 Central hidroeléctrica Villalba

Coste medio MWh: 47,22 €

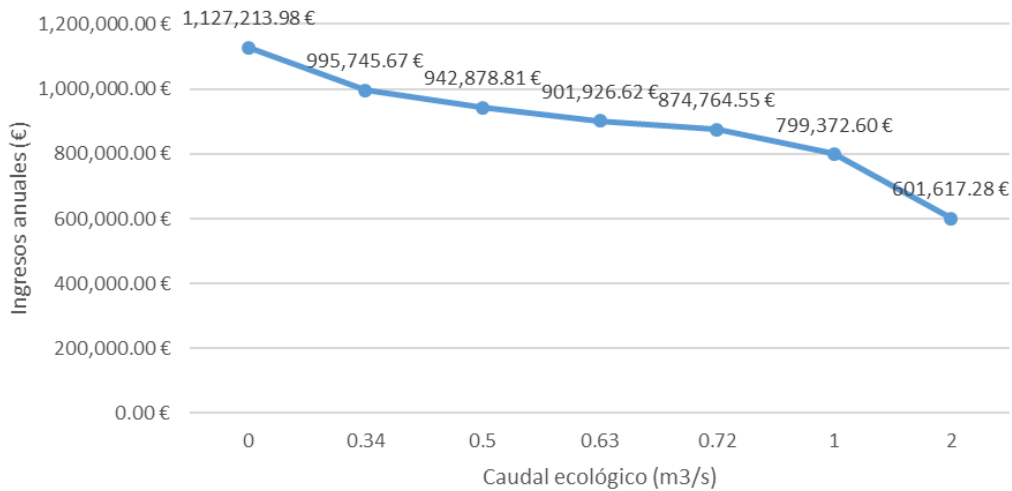


Figura 60. Grafica de los ingresos generados en el rango de caudales mínimos para Villalba

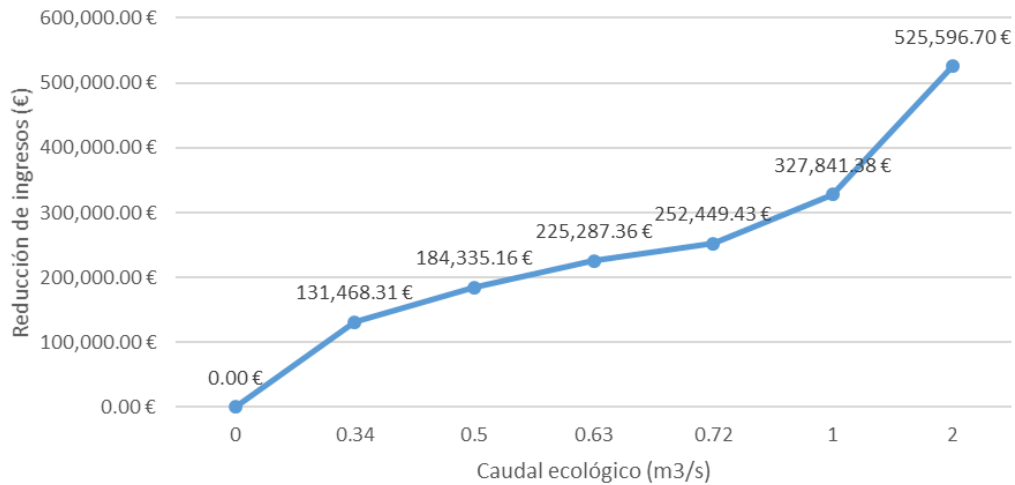


Figura 61. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Villalba

4.3 Central hidroeléctrica La Torre

Coste medio MWh: 31,75 €

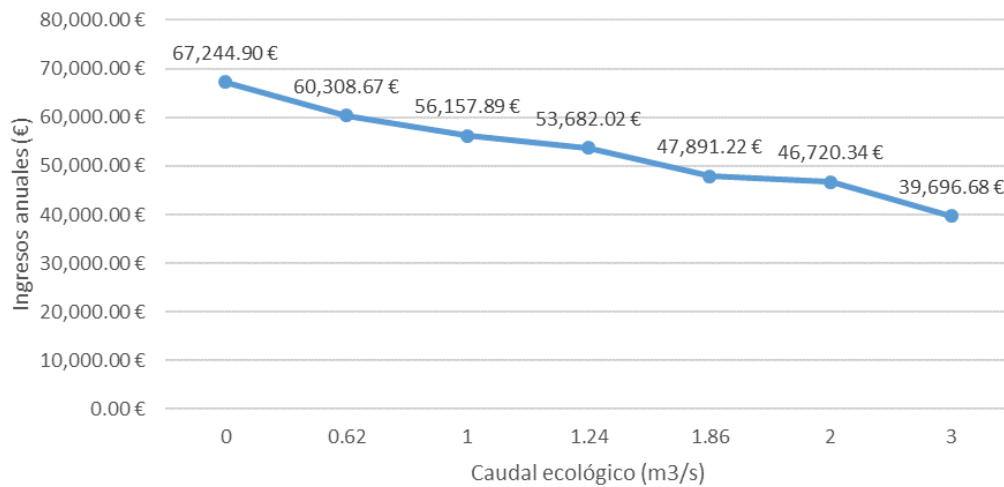


Figura 62. Grafica de los ingresos generados en el rango de caudales mínimos para La Torre

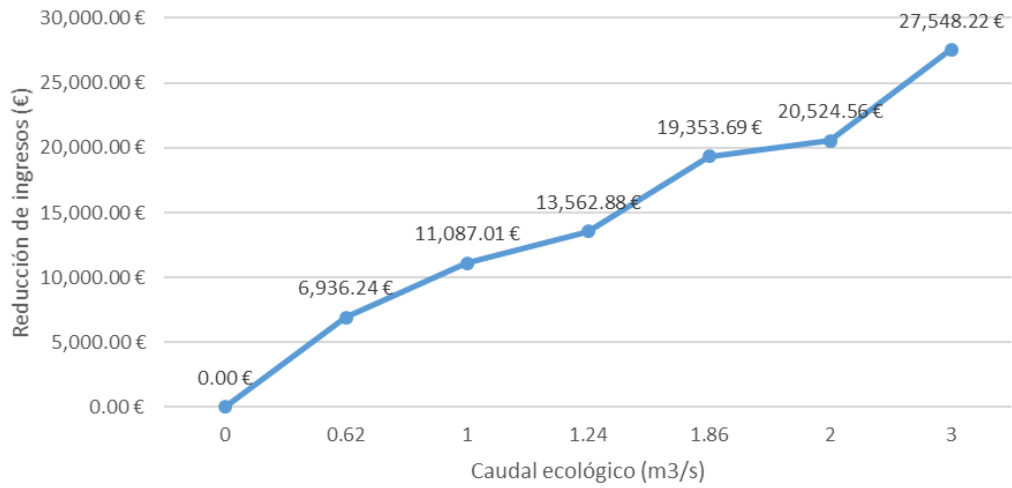


Figura 63. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en La Torre

4.4 Central hidroeléctrica Las Grajas

Coste medio MWh: 45,76 €

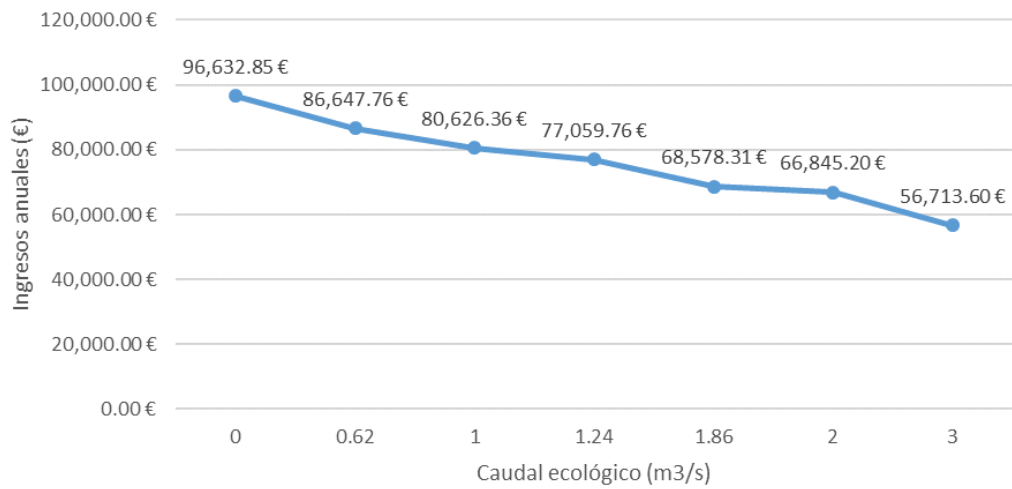


Figura 64. Grafica de los ingresos generados en el rango de caudales mínimos para Las Grajas

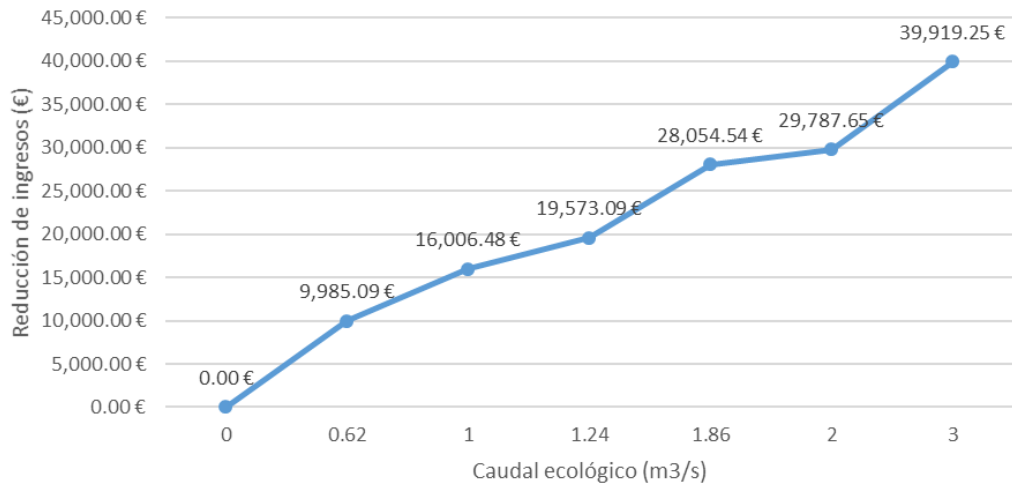


Figura 65. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Las Grajas

4.5 Central hidroeléctrica El Batán

Coste medio MWh: 45,76 €

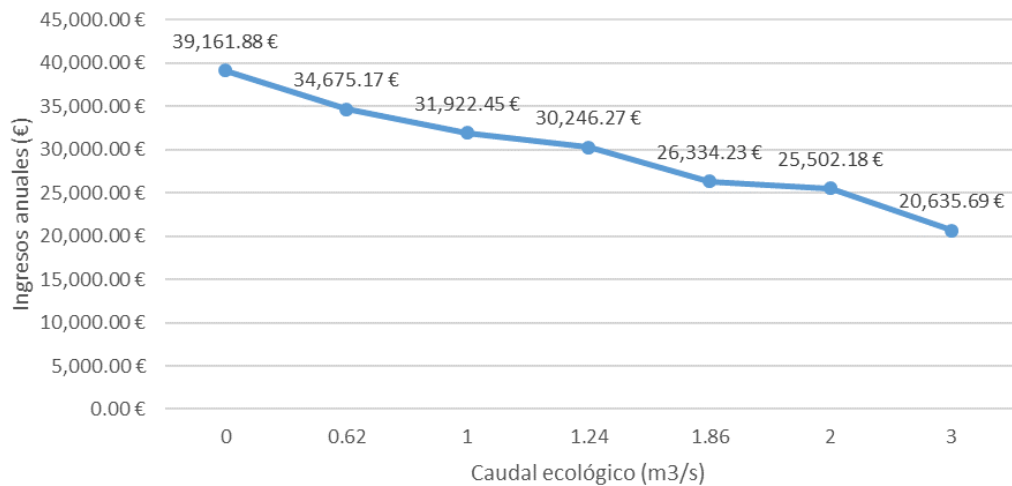


Figura 66. Grafica de los ingresos generados en el rango de caudales mínimos para El Batán

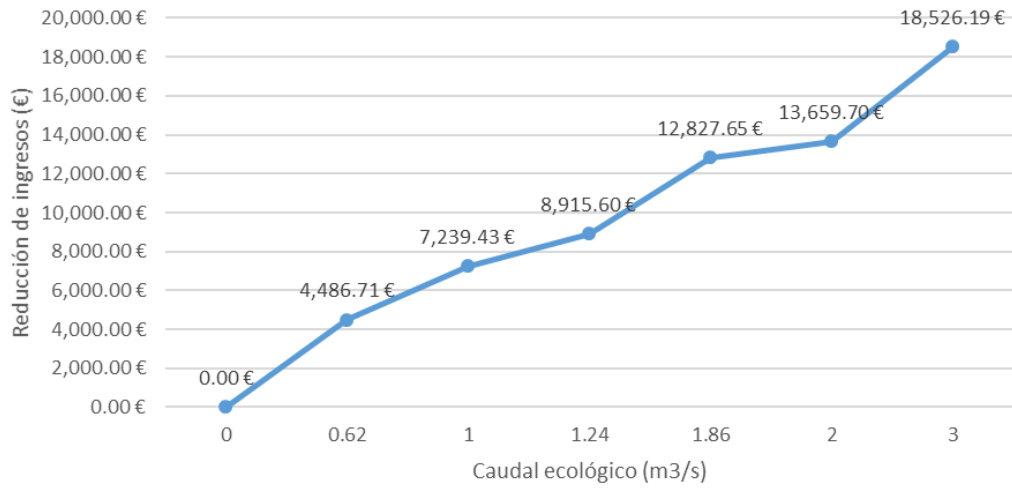


Figura 67. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en El Batán

4.6 Central hidroeléctrica Molino de Santiago

Coste medio MWh: 45,76 €

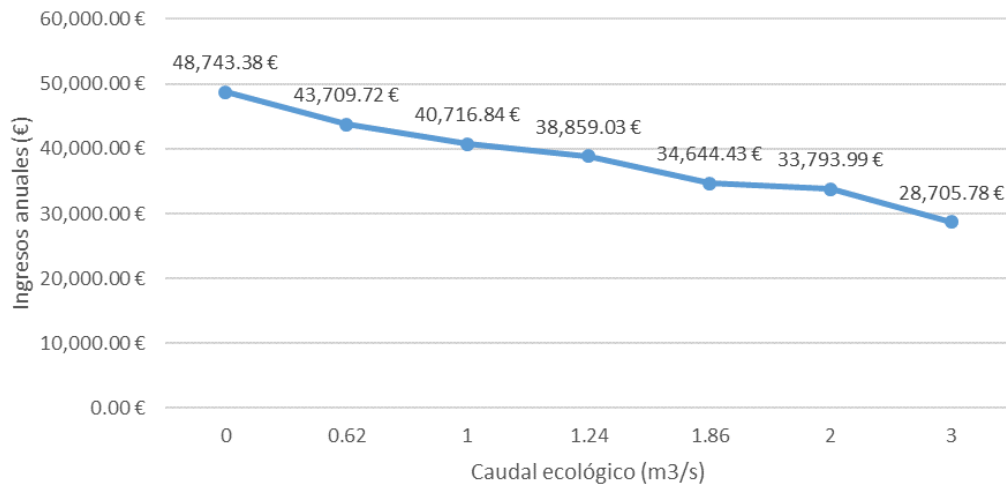


Figura 68. Grafica de los ingresos generados en el rango de caudales mínimos para Molino de Santiago

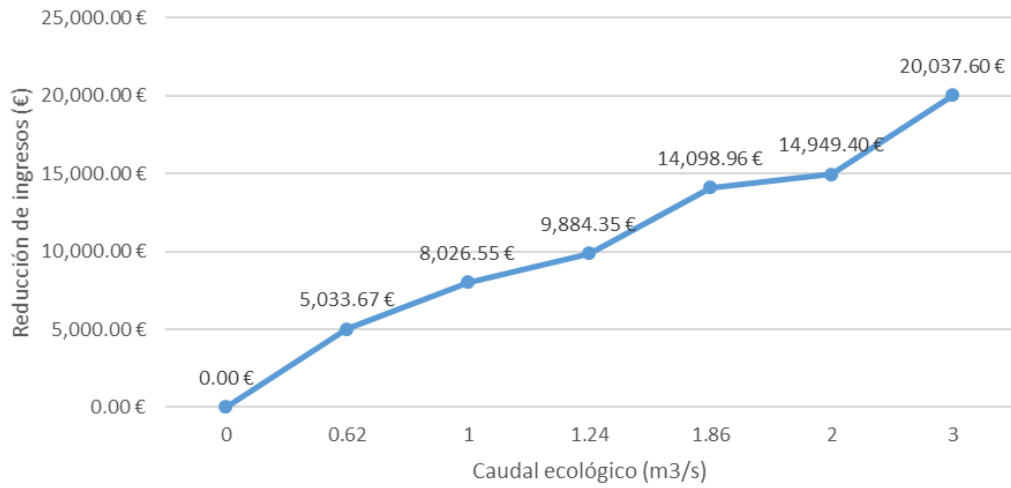


Figura 69. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en Molino de Santiago

4.7 Central hidroeléctrica El Castellar

Coste medio MWh: 43,66 €

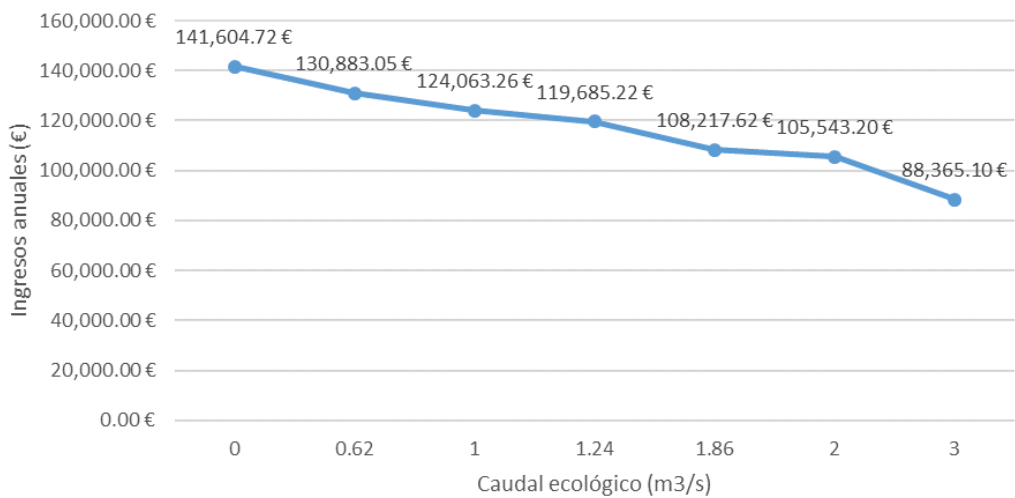


Figura 70. Grafica de los ingresos generados en el rango de caudales mínimos para El Castellar

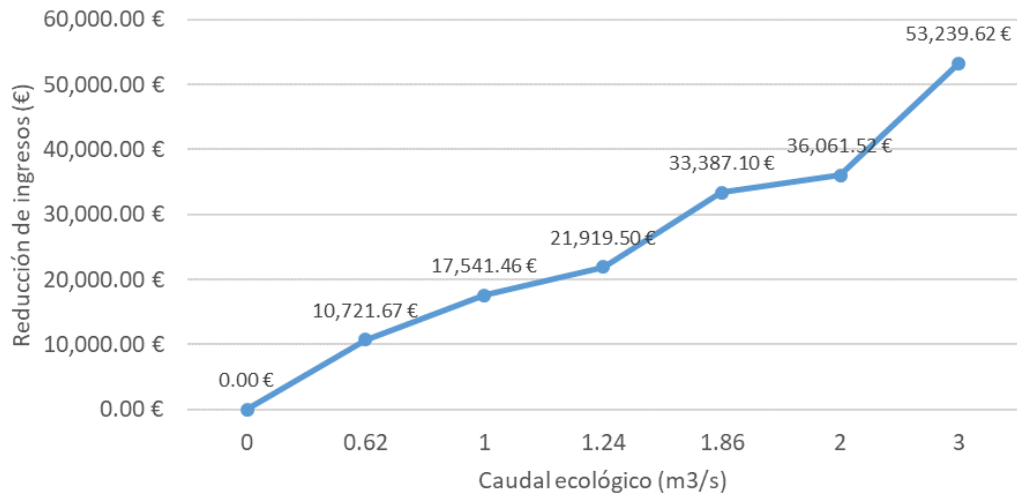


Figura 71. Grafica de la reducción de ingresos por el aumento en los caudales ecológicos en El Castellar

5 Referencias

CHJ, 2016. “Plan Hidrológico de cuenca 2015-2021” Plan Hidrológico del Júcar aprobado por el Real Decreto 1/2016, del 8 de enero.

CHJ, 2016. “Usos y demanda del agua” Anejo 3 del Plan Hidrológico del Júcar.

CHJ, 2016. “Usos y demandas del agua” Anejo 5 del Plan Hidrológico del Júcar.

ROEA, 2019. “Red oficial de estaciones de aforo” Base de datos de puntos singulares de cauces y canales, así como de la reserva de los embalses.

S.I.A Júcar, 2019. “Sistema de información del agua” Visor web donde se encuentra información geográfica de la Confederación.

SAIH, 2019. “Sistema Automático de Información Hidrológica” Sistema de información encargado de captar, transmitir en tiempo real, procesar y presentar aquellos datos que describen el estado hidrológico e hidráulico de la cuenca.

CHJ, 2019. “Base de datos proporcionada por la Confederación Hidrográfica del Júcar” Datos proporcionados de las centrales y sus producciones.

CEDEX, 2019. “Anuario de aforos 2015-2016” Anuario de estaciones foronómicas elaborado por el centro de estudios hidrográficos del CEDEX.



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



ETS INGENIEROS DE CAMINOS,
CANALES Y PUERTOS

Trabajo de final de grado

Adecuación de la producción energética de las centrales hidroeléctricas al cumplimiento de los caudales ecológicos en la Demarcación del Júcar. Cabecera río Júcar.

Anejo III: Caudales intradiarios



Índice

1	Introducción.....	1
2	Gráficas de caudales intradiarios.....	3
2.1	Año 2014.....	4
2.1.1	Enero.....	5
2.1.2	Febrero.....	36
2.1.3	Marzo.....	64
2.1.4	Abril.....	95
2.1.5	Mayo.....	125
2.1.6	Junio.....	156
2.1.7	Julio.....	186
2.1.8	Agosto.....	217
2.1.9	Septiembre.....	248
2.1.10	Octubre.....	278
2.1.11	Noviembre.....	309
2.1.12	Diciembre.....	339
2.2	Año 2016.....	370
2.2.1	Enero.....	370
2.2.2	Febrero.....	401
2.2.3	Marzo.....	430
2.2.4	Abril.....	461
2.2.5	Mayo.....	491
2.2.6	Junio.....	522
2.2.7	Julio.....	552
2.2.8	Agosto.....	583
2.2.9	Septiembre.....	614
2.2.10	Octubre.....	644
2.2.11	Noviembre.....	675
2.2.12	Diciembre.....	705
2.3	Año 2018.....	736
2.3.1	Enero.....	736
2.3.2	Febrero.....	767



2.3.3	Marzo.....	795
2.3.4	Abril	826
2.3.5	Mayo.....	856
2.3.6	Junio	887
2.3.7	Julio	917
2.3.8	Agosto	948
2.3.9	Septiembre	979
2.3.10	Octubre.....	1009
2.3.11	Noviembre	1040
2.3.12	Diciembre	1070
3	Referencias.....	1101

Índice de figuras

Figura 1. Leyenda en común para las gráficas.....	3
---	---

Índice de tablas

Tabla 1. Caudales ecológicos establecidos en el Plan Hidrológico de cuenca (2015-2021) para las masas de agua 18.04 y 18.06	3
---	---



1 Introducción.

Dentro del análisis del estudio, una parte a considerar y prestar atención son los caudales intradiarios. Comprobando los caudales cincominutales en este caso, se consigue observar que sucede en el río a lo largo del día.

Puede ocurrir en ocasiones que, la media de caudales diarios que circulan por el río sea mayor que el caudal ecológico impuesto. Después si se analiza lo que ocurre a lo largo de ese día, puede darse el caso que, observando una escala de tiempo menor, no se hayan mantenido las disposiciones ecológicas durante todas las horas.

Además de comprobar el cumplimiento de los caudales ecológicos, con los caudales intradiarios se podrá estudiar el fenómeno de “dientes de sierra”. Esto puede ser observado en la representación gráfica de los caudales cincominutales.

El efecto que produce son oscilaciones en el flujo del río, de aumentos y disminuciones en el caudal circulante, en intervalos cortos de tiempo. Ello es propiciado como consecuencia de la producción hidroeléctrica del tramo. Por características del grupo de centrales estudiadas, queda patente que es la central hidroeléctrica de Villalba la que condiciona el caudal que circula por el río en el momento de producir energía.

Esta central restituye al cauce el flujo proveniente de la laguna de Uña, la cual se nutre de sus aportes naturales y de las derivaciones de la central hidroeléctrica de La Toba.

2 Gráficas de caudales intradiarios.

Para la elaboración del anejo, se recogerán los caudales cincominutales registrados por: la salida total de la presa de La Toba, la estación de aforo ROEA de Cuenca y la estación de aforo ROEA de San Lorenzo Parrilla. Obtenidos sus datos intradiarios registrados, se elaborará una gráfica representativa de sus caudales para cada día y cada punto de registro.

En las gráficas se representará el caudal circulante por el río, del día fijado. Estará representado además con otra línea de color distinto, como puede verse en la imagen siguiente de la leyenda, el caudal ecológico del tramo al que pertenece el registro (ambos caudales representados en m^3/s).

— Caudal río — Caudal ecológico

Figura 1. Leyenda en común para las gráficas

Salida La Toba	Cuenca	San Lorenzo Parrilla
0,34 m^3/s	0,62 m^3/s	0,62 m^3/s

Tabla 1. Caudales ecológicos establecidos en el Plan Hidrológico de cuenca (PHC 2015-2021) para las masas de agua 18.04 y 18.06

Dentro de la elaboración de las gráficas, se han tomado los años 2014, 2016 y 2018 para el estudio. Ello permite tener la referencia un año anterior al PHC y dos no continuos incluidos dentro del plan.

Para ubicar geográficamente el emplazamiento de los aforos, y su posición relativa a las centrales hidroeléctricas, se dispone la ortofoto de la figura siguiente.

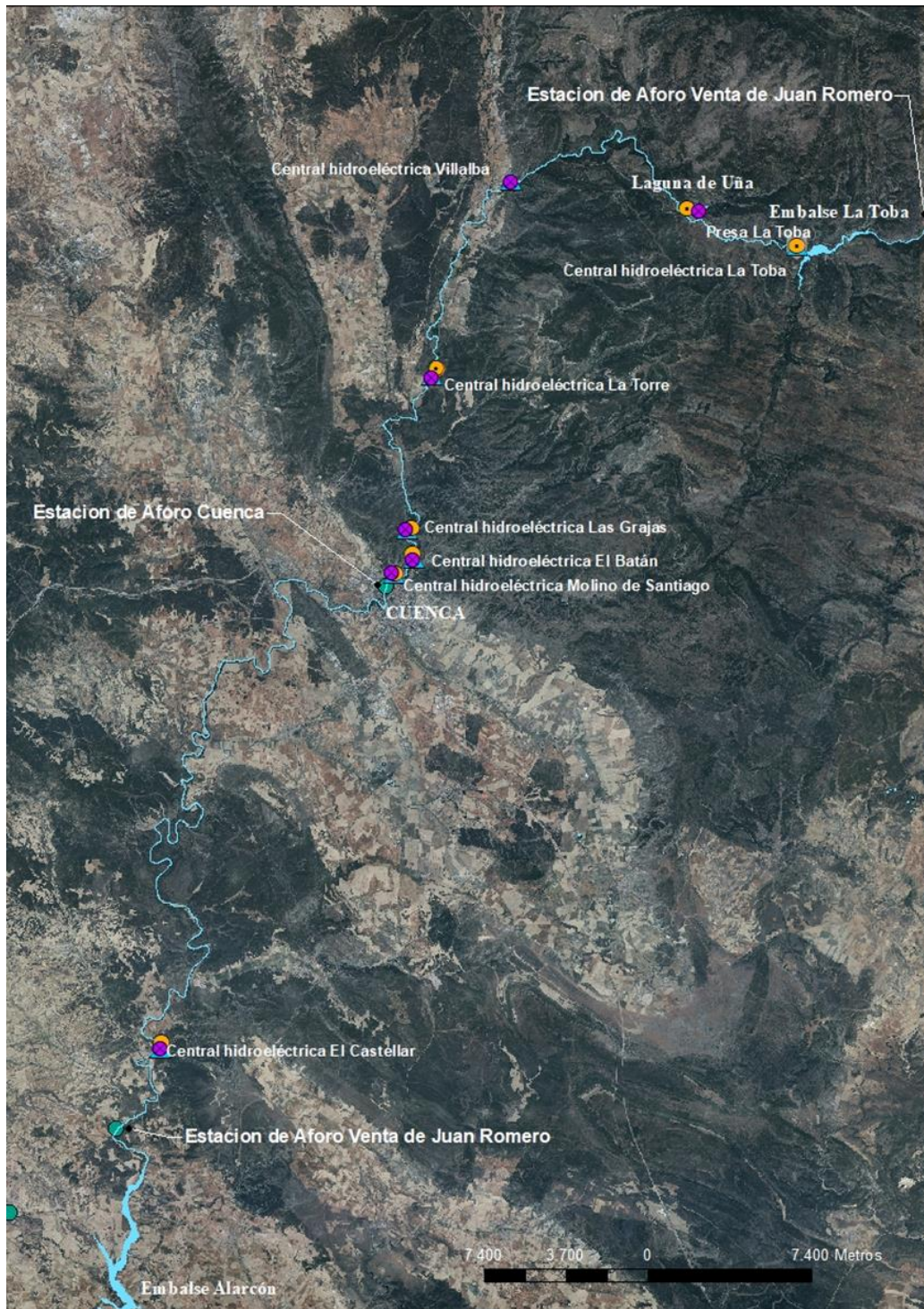


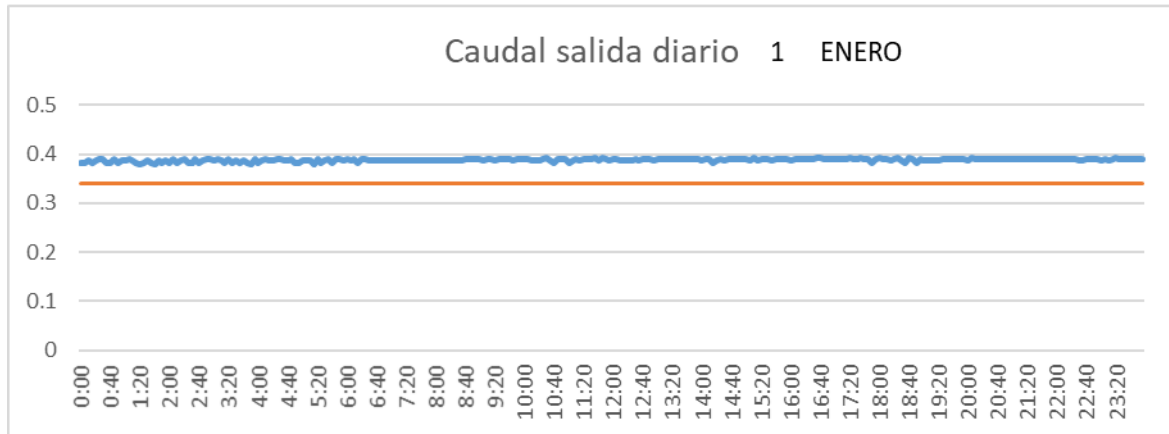
Figura 2. Mapa de la localización de las estaciones de aforo escala 1:200.000

Para el año 2014, se representarán los caudales ecológicos del actual plan a modo de referencia, para noción del lector. Esto permite observar durante este primer año, si se superaba o no el caudal mínimo del PHC 2015-2021 y ver los efectos que comportó.

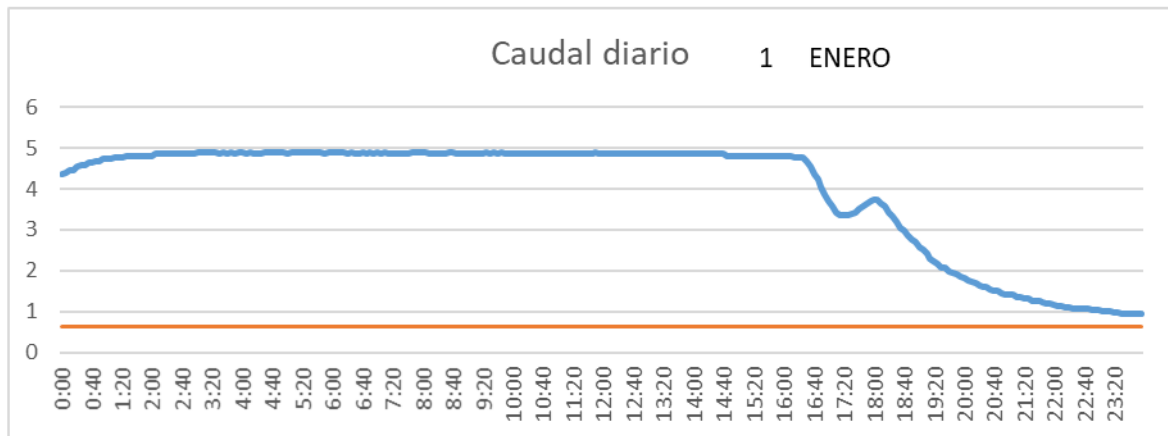
2.1 Año 2014

2.1.1 Enero

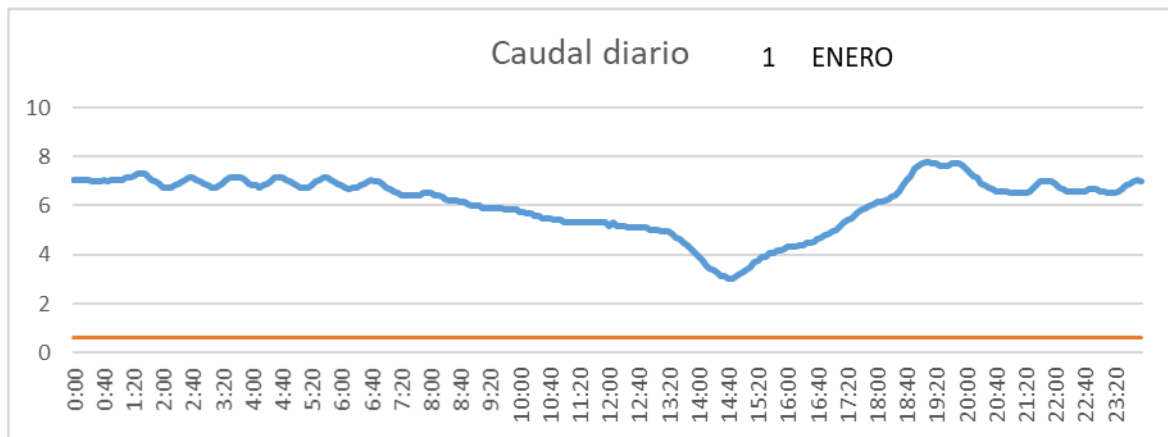
SALIDA TOBA



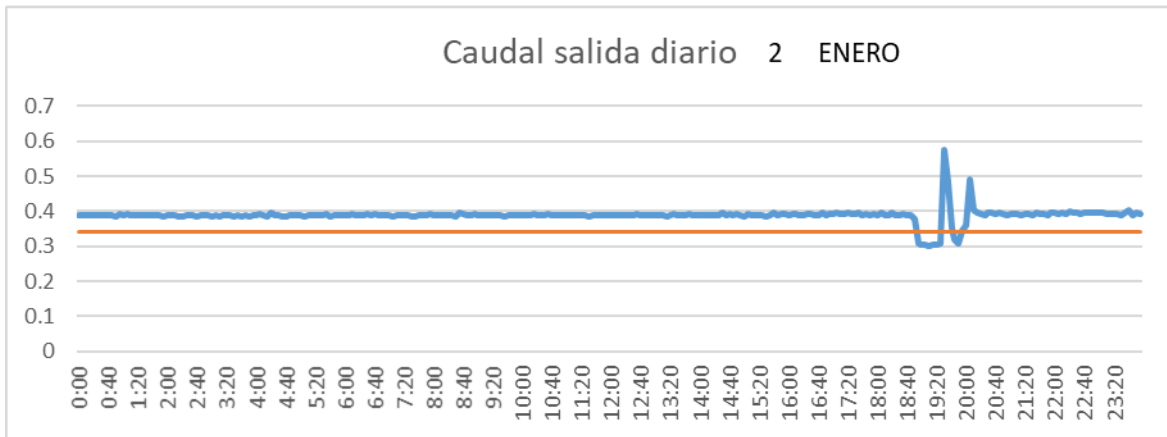
CUENCA



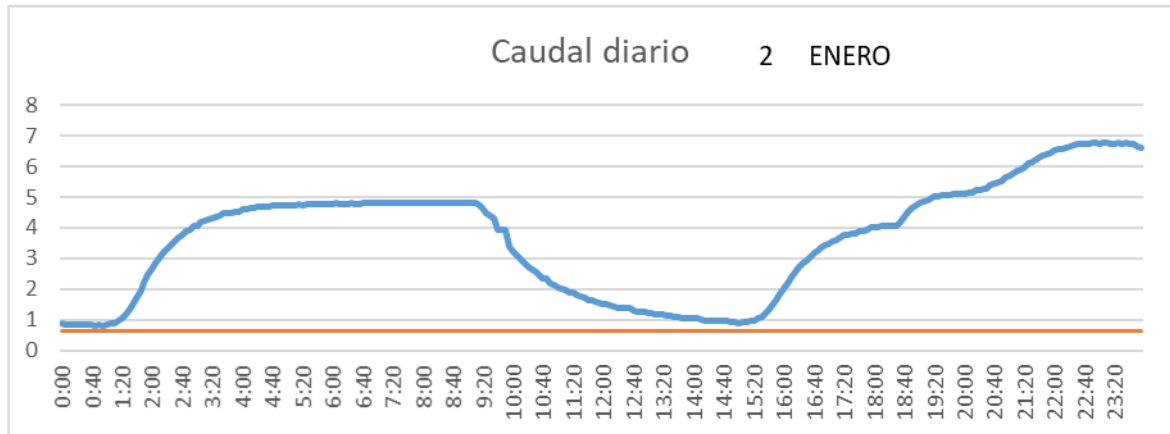
SAN LORENZO PARRILLA



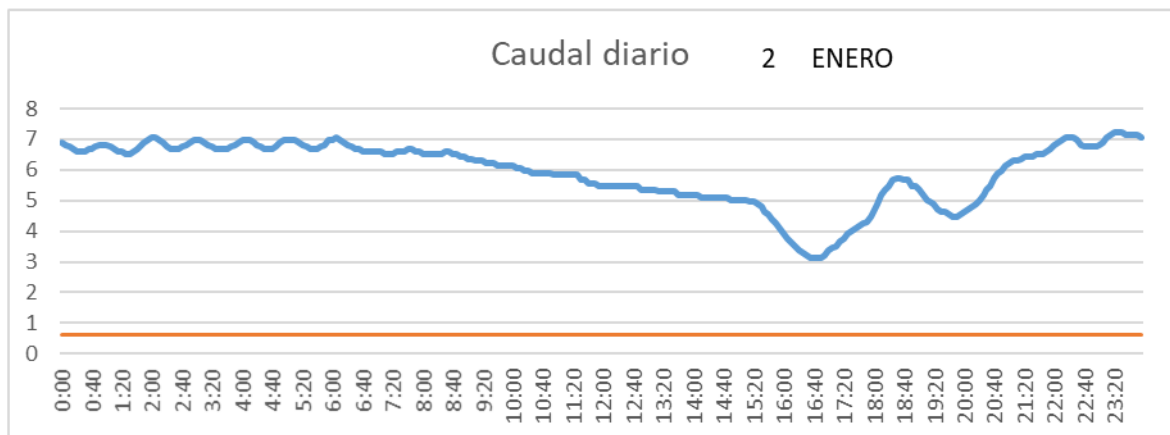
SALIDA TOBA



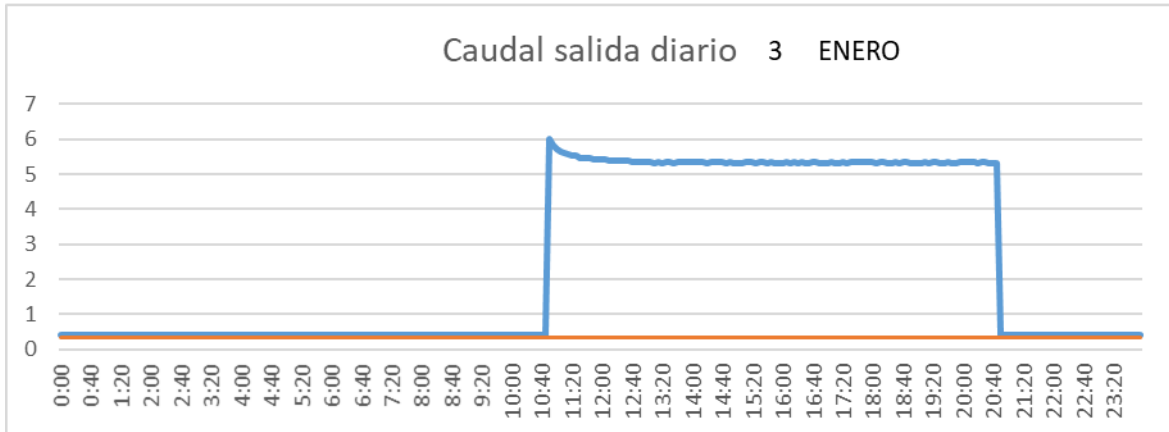
CUENCA



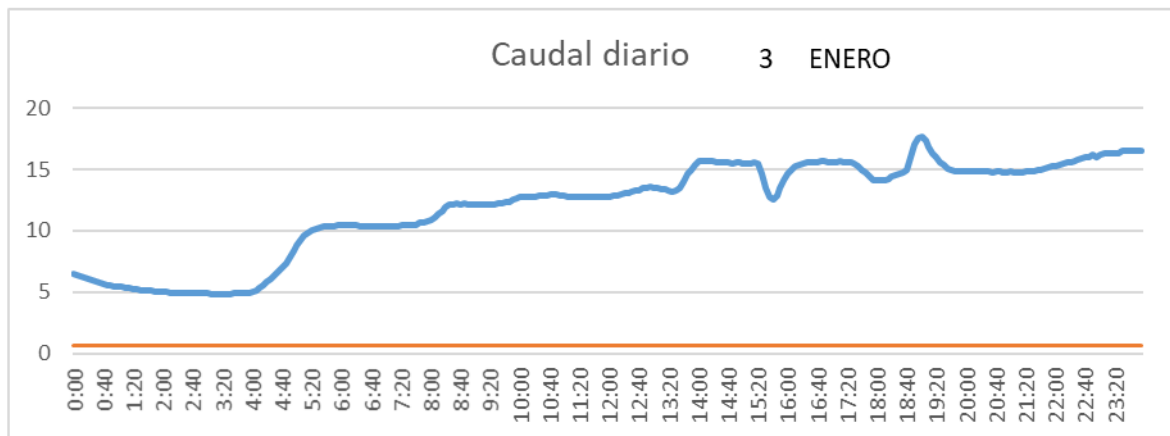
SAN LORENZO PARRILLA



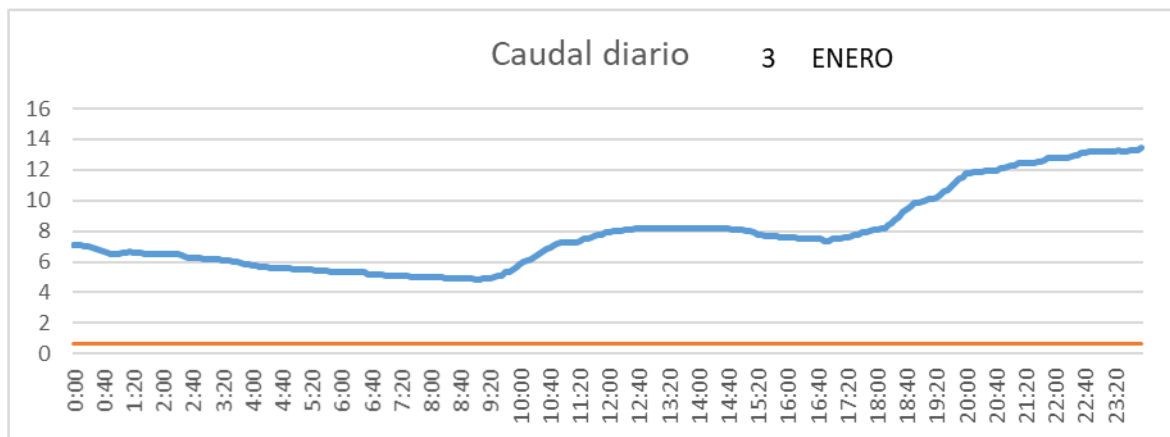
SALIDA TOBA



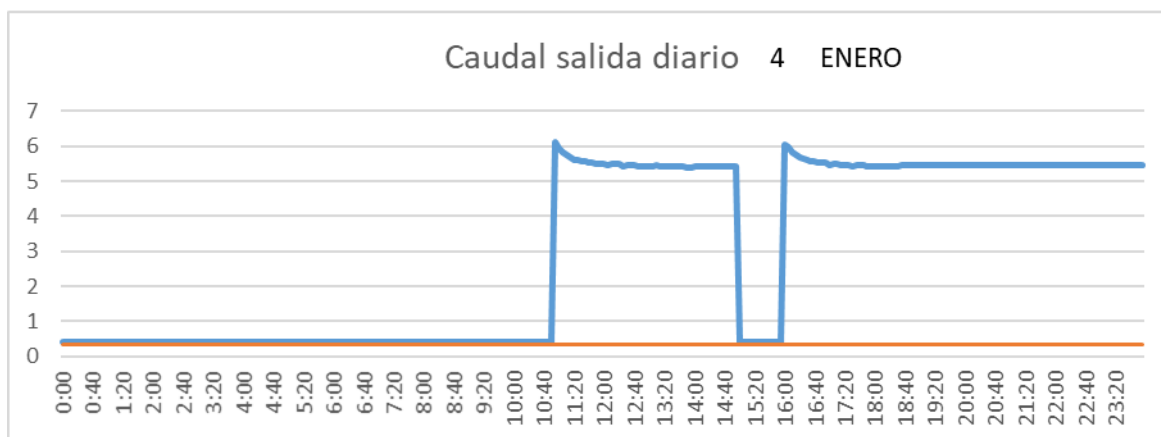
CUENCA



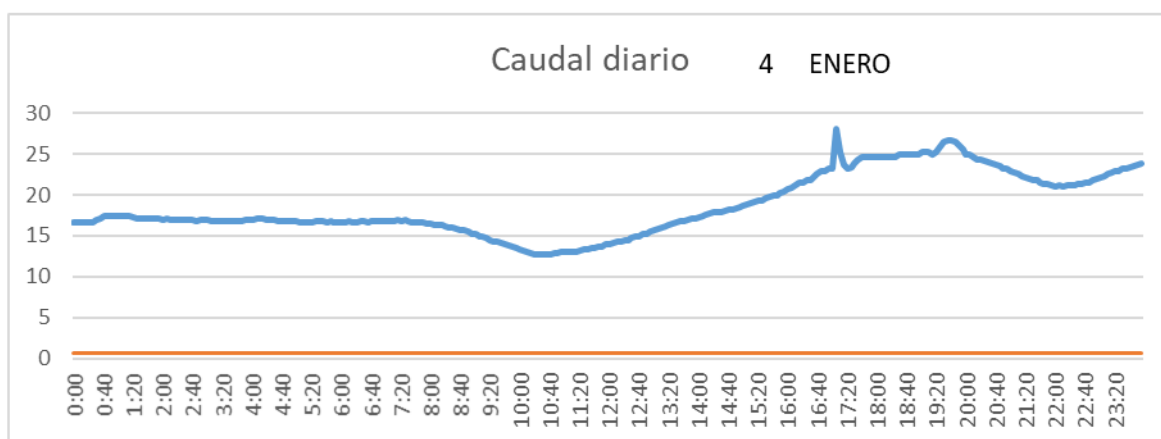
SAN LORENZO PARRILLA



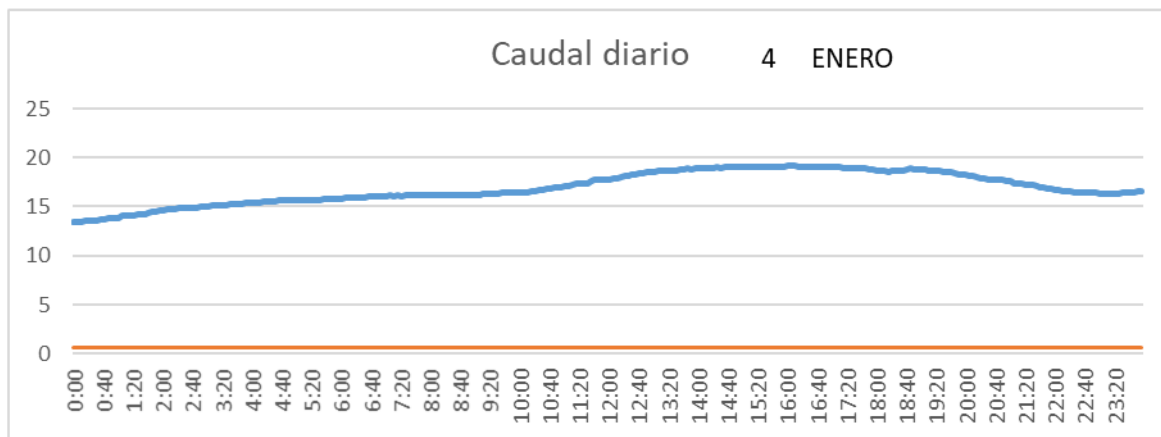
SALIDA TOBA



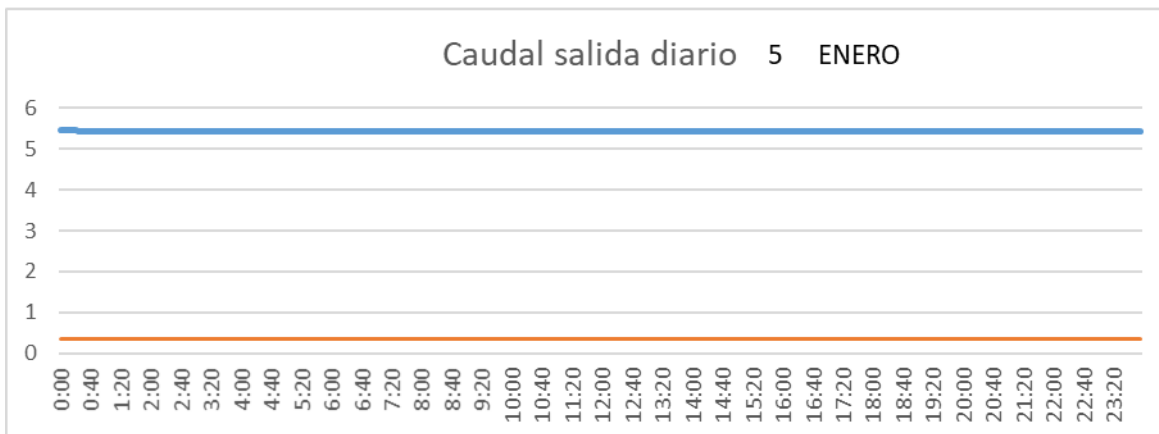
CUENCA



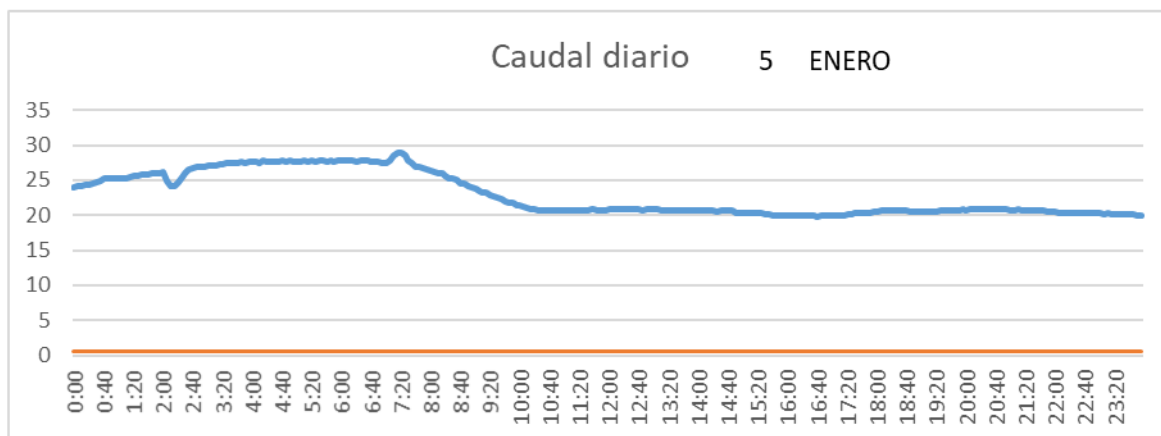
SAN LORENZO PARRILLA



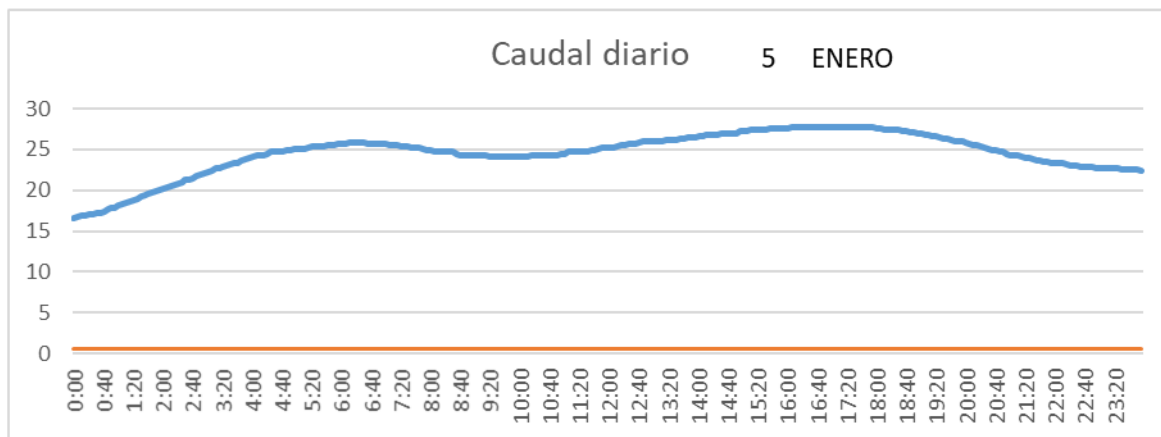
SALIDA TOBA



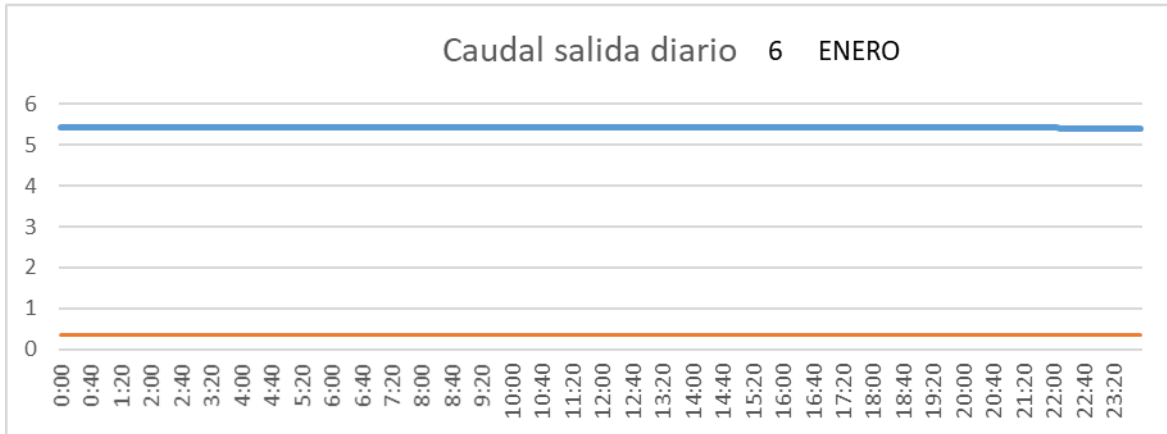
CUENCA



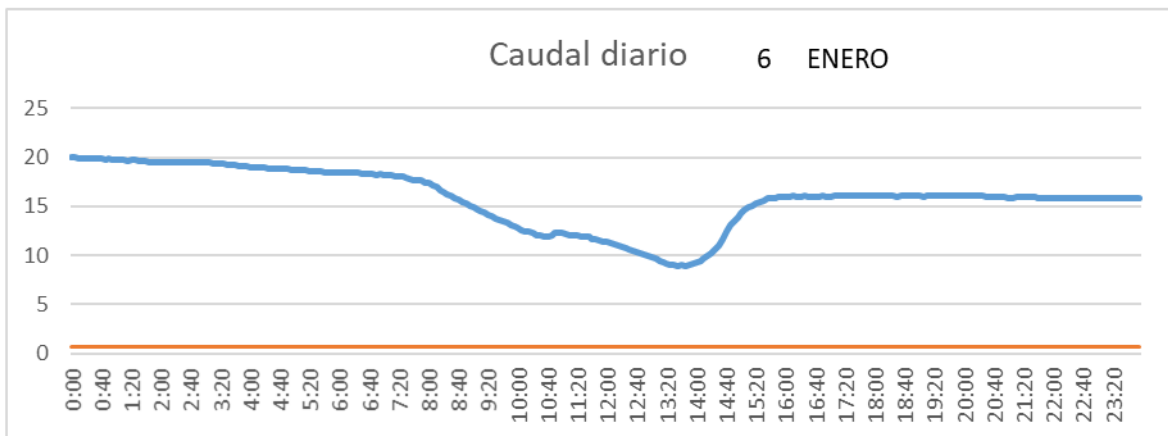
SAN LORENZO PARRILLA



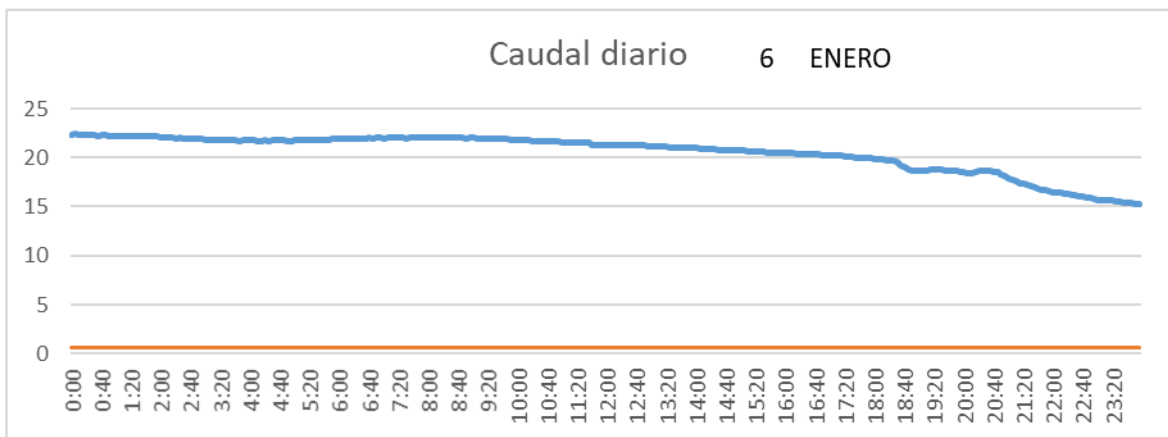
SALIDA TOBA



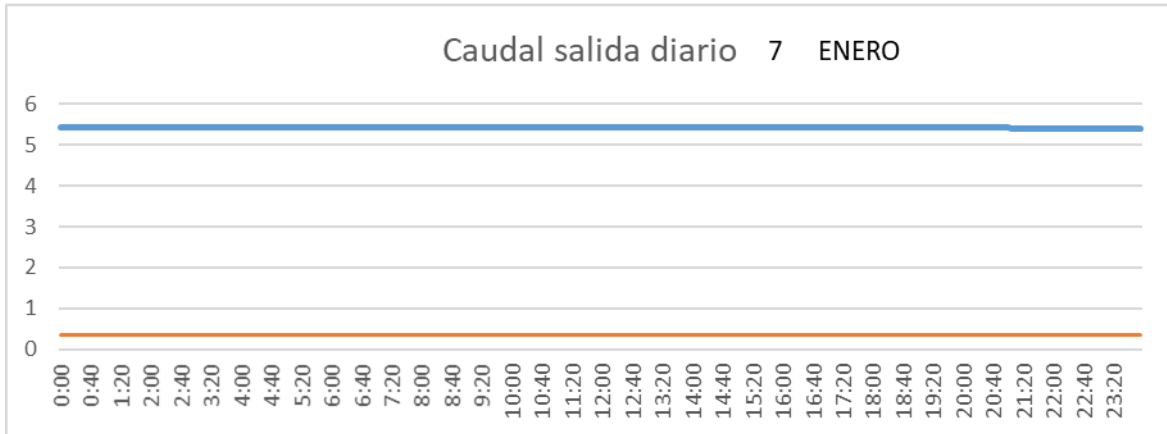
CUENCA



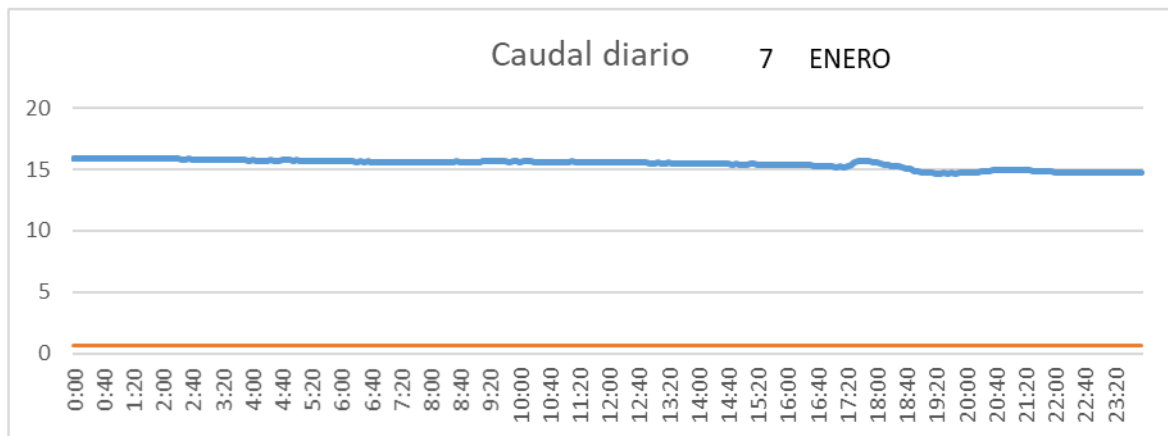
SAN LORENZO PARRILLA



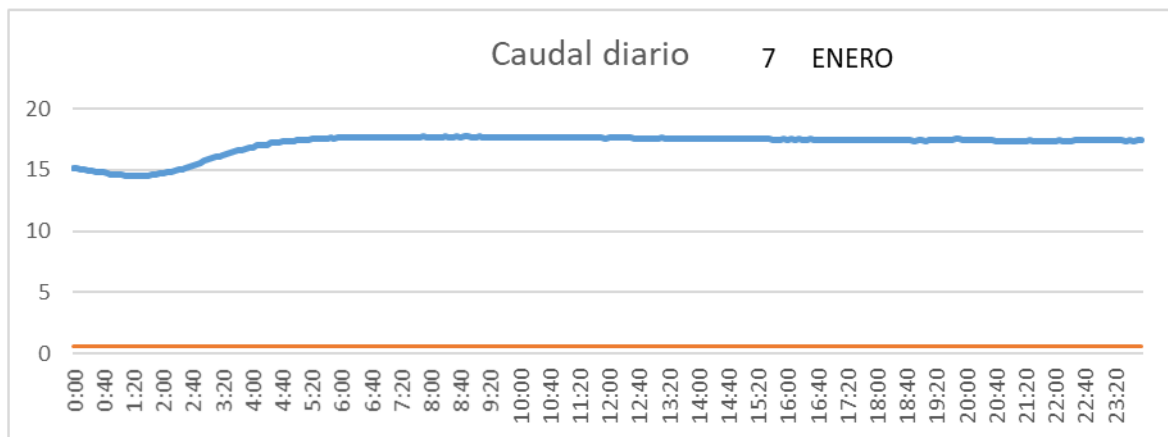
SALIDA TOBA



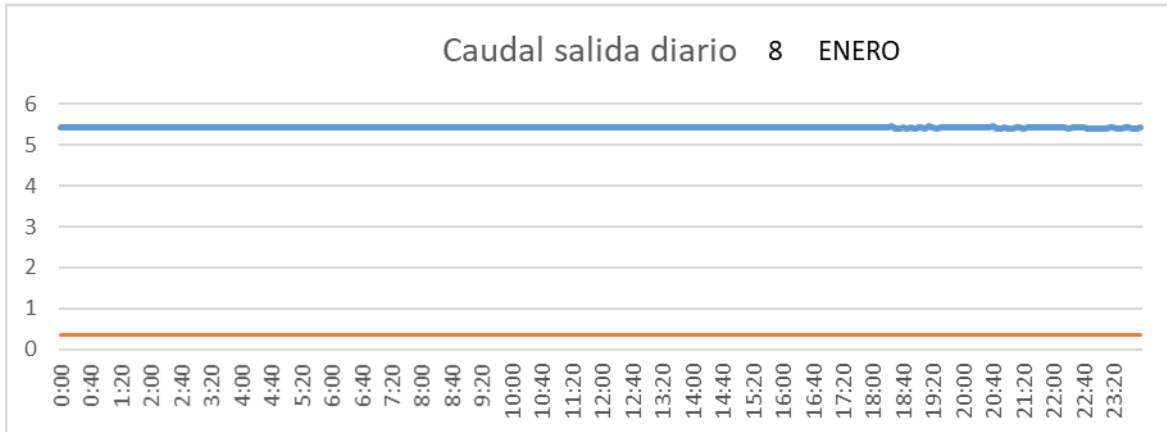
CUENCA



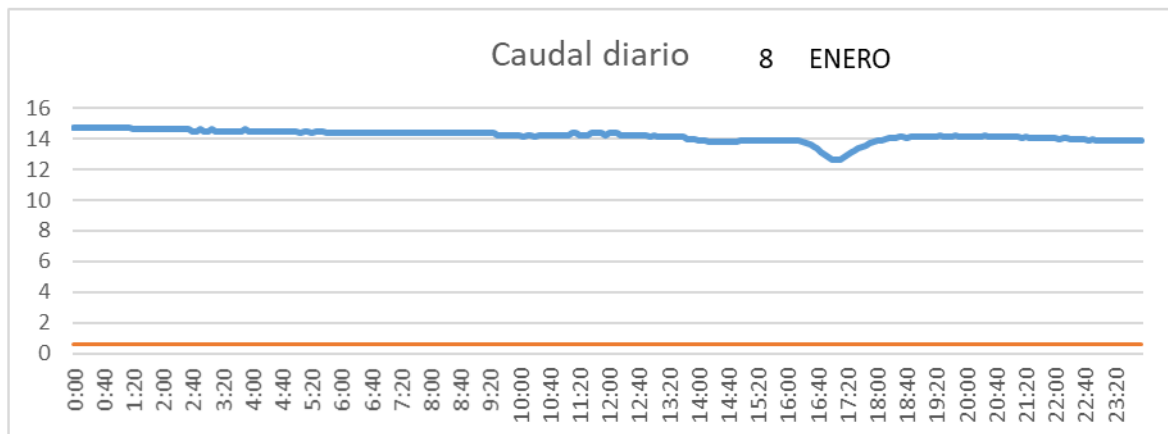
SAN LORENZO PARRILLA



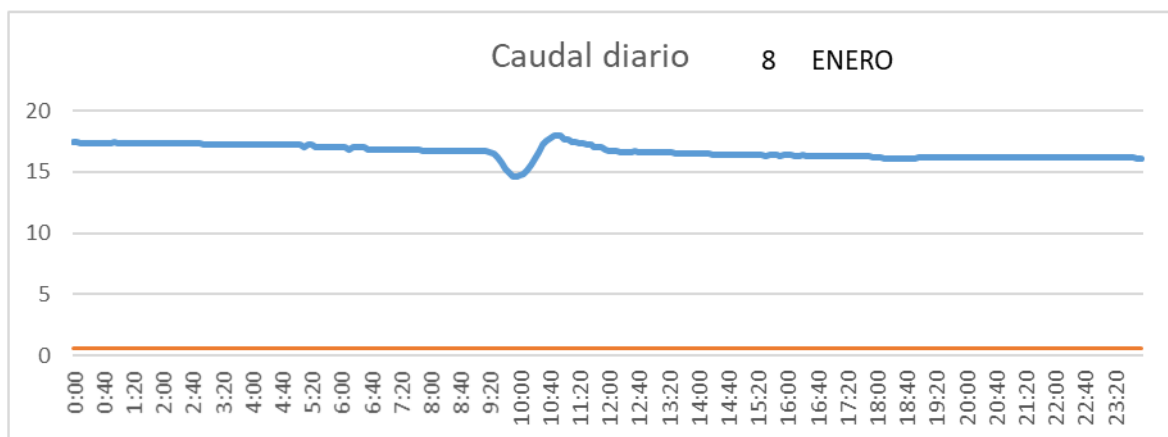
SALIDA TOBA



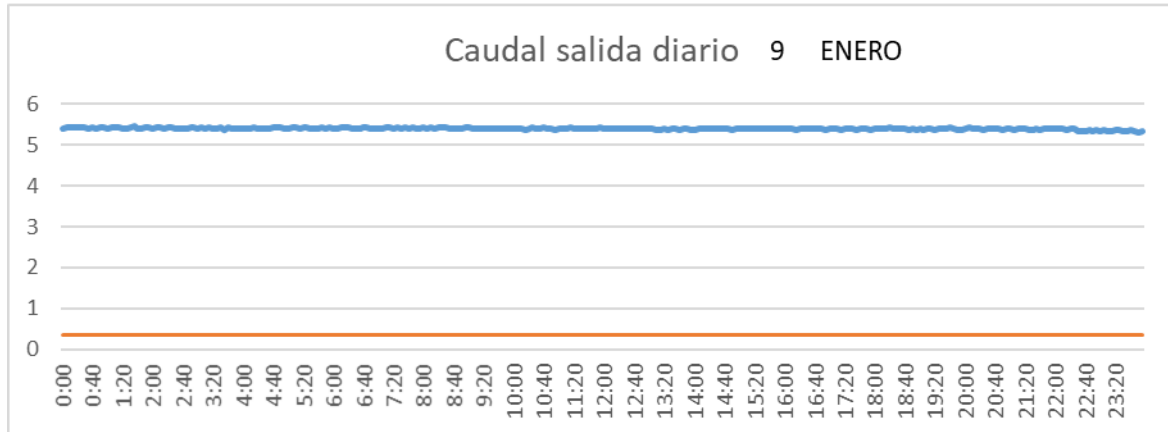
CUENCA



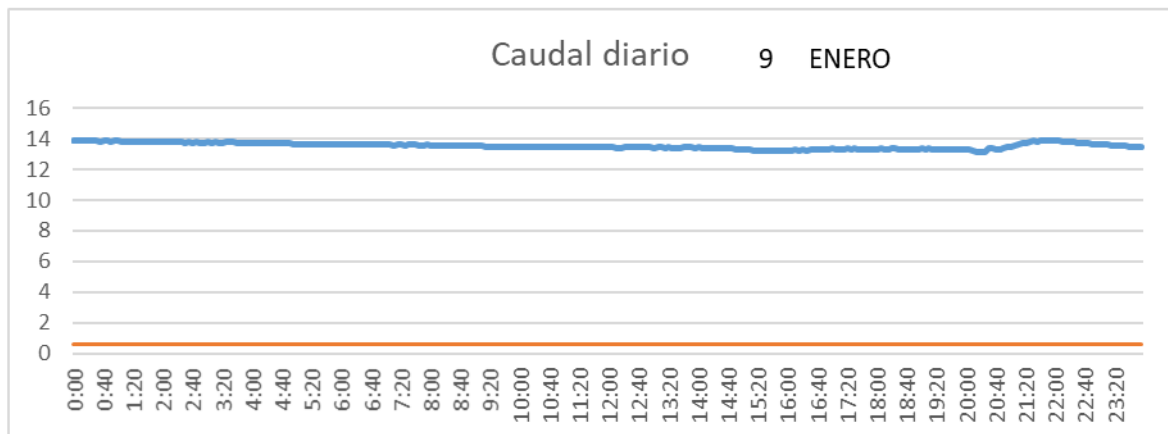
SAN LORENZO PARRILLA



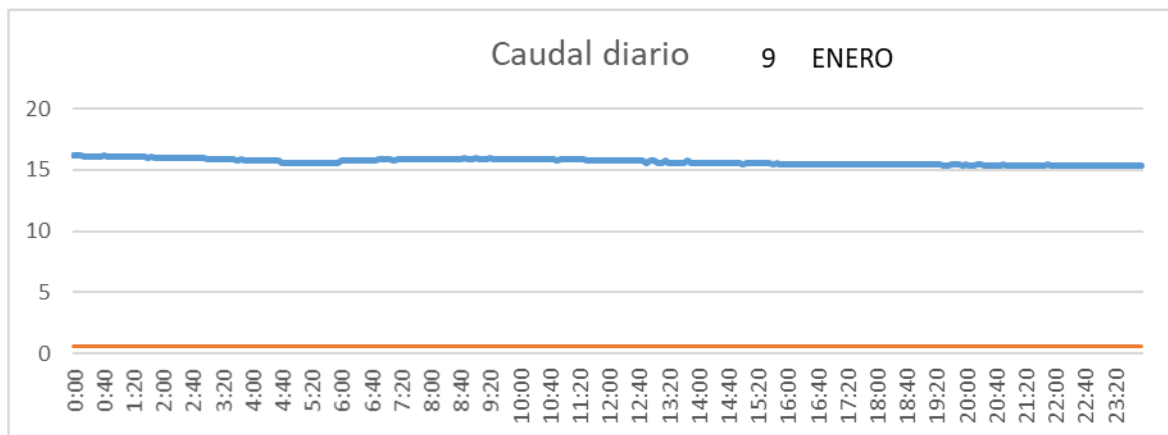
SALIDA TOBA



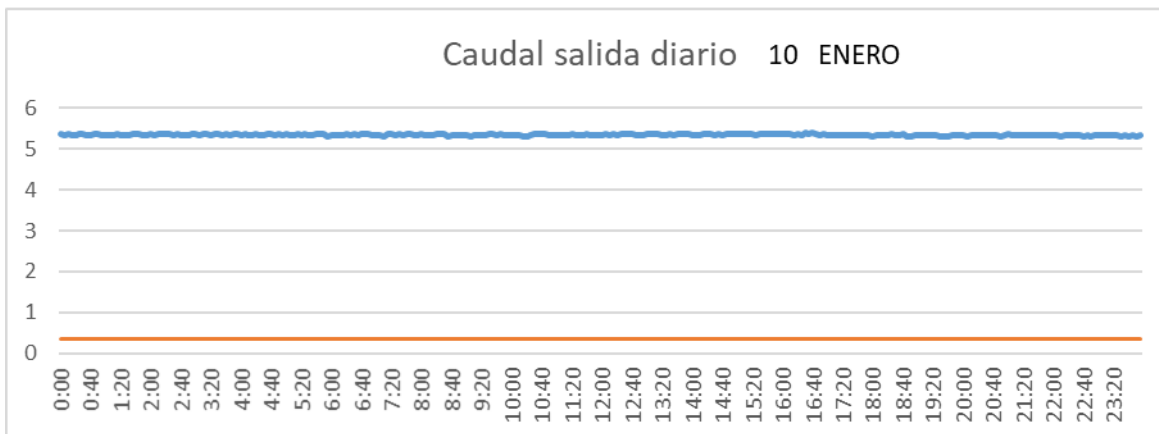
CUENCA



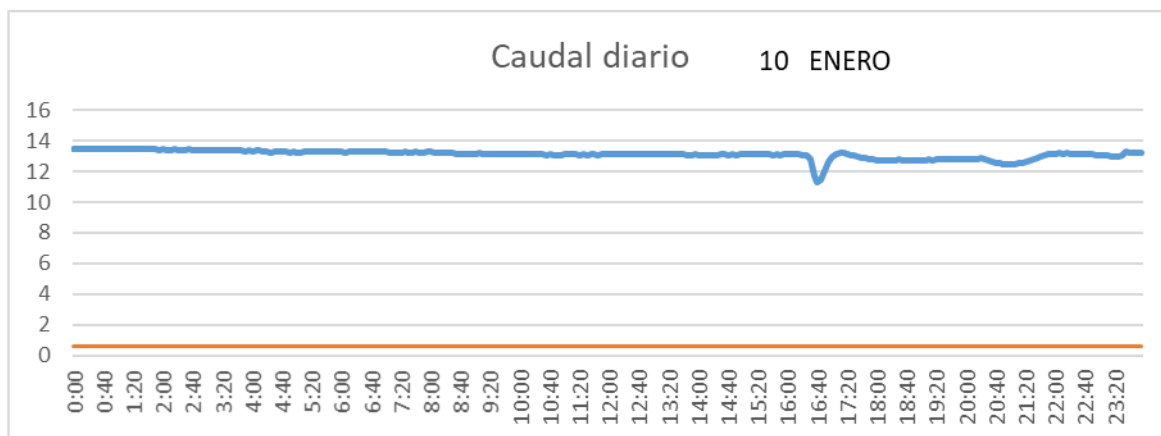
SAN LORENZO PARRILLA



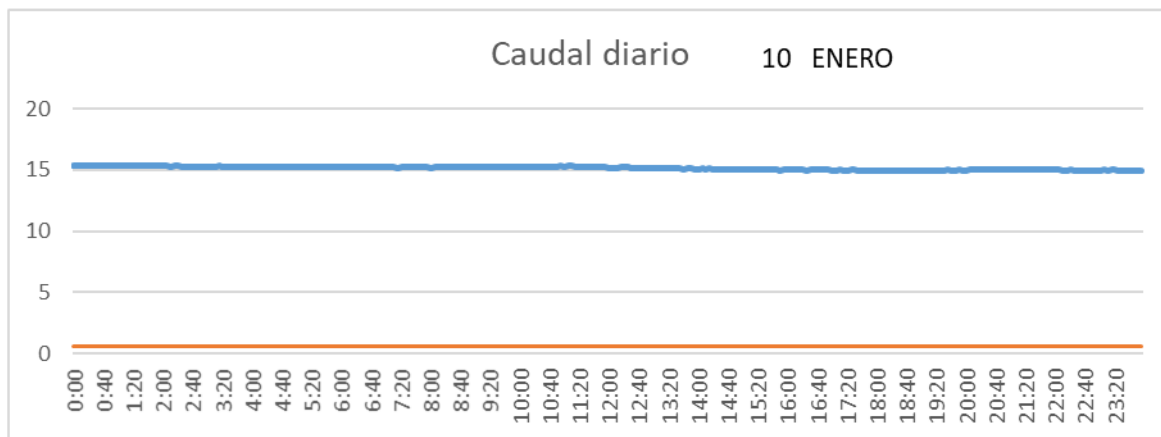
SALIDA TOBA



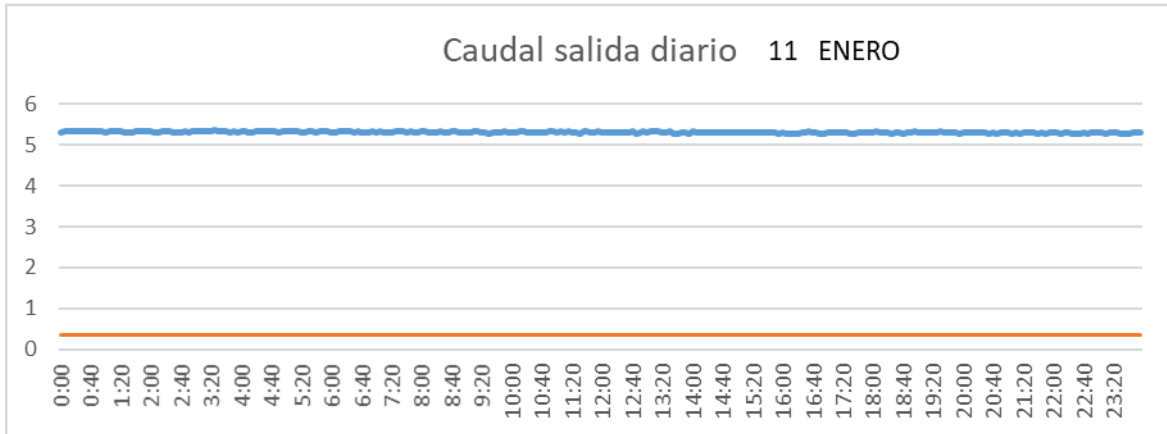
CUENCA



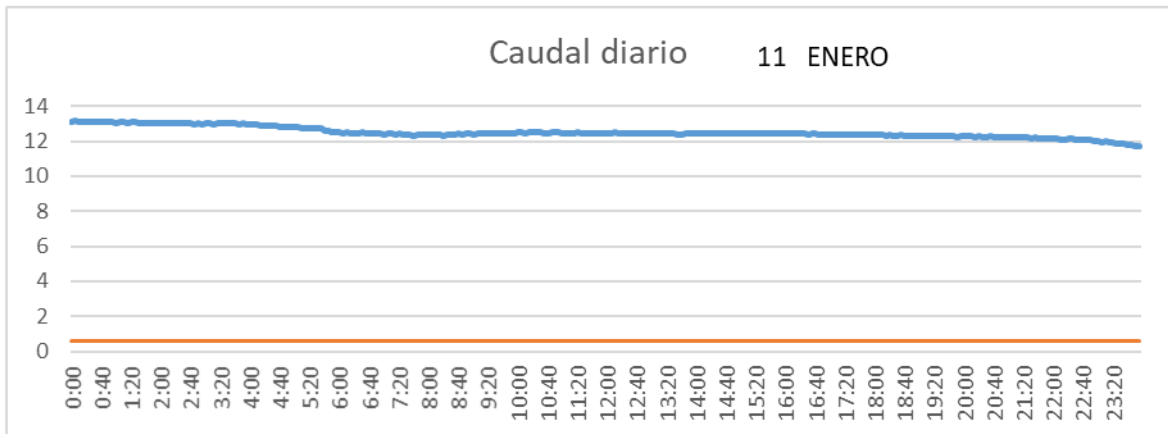
SAN LORENZO PARRILLA



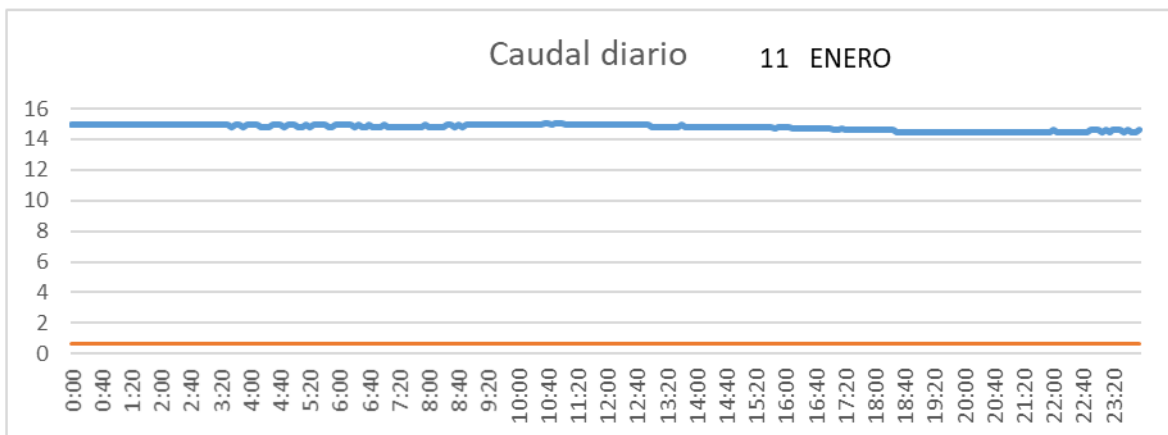
SALIDA TOBA



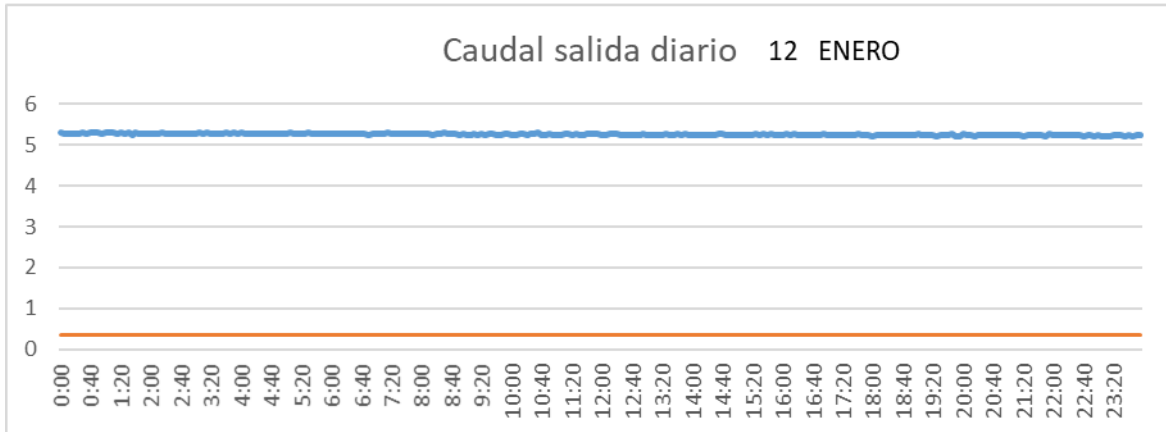
CUENCA



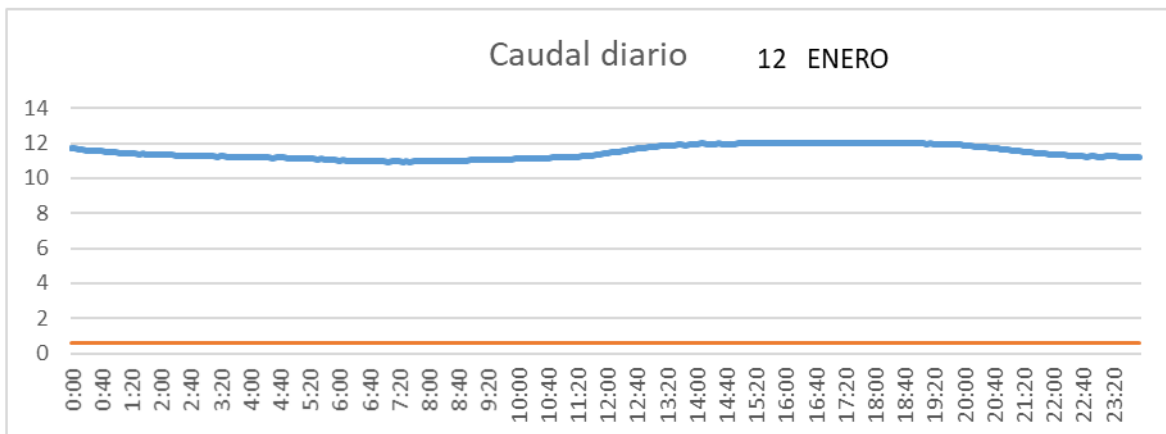
SAN LORENZO PARRILLA



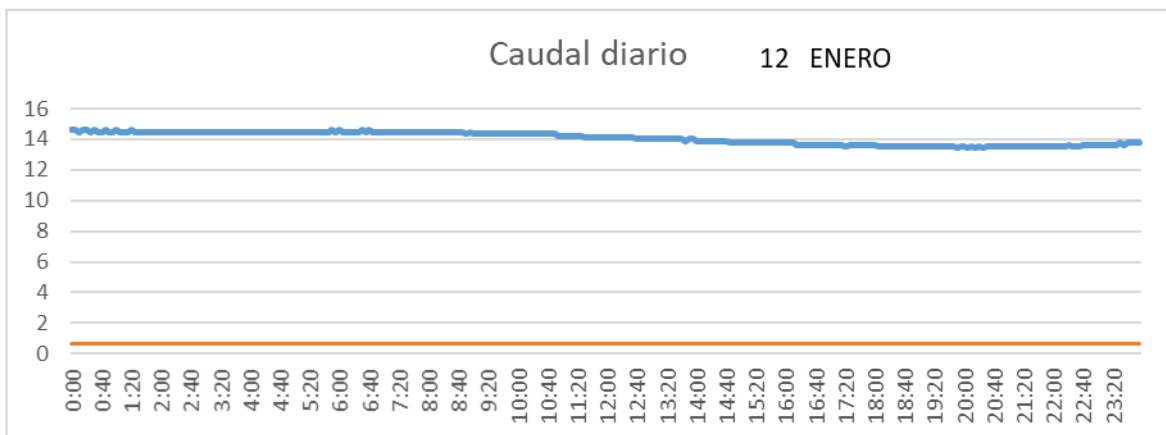
SALIDA TOBA



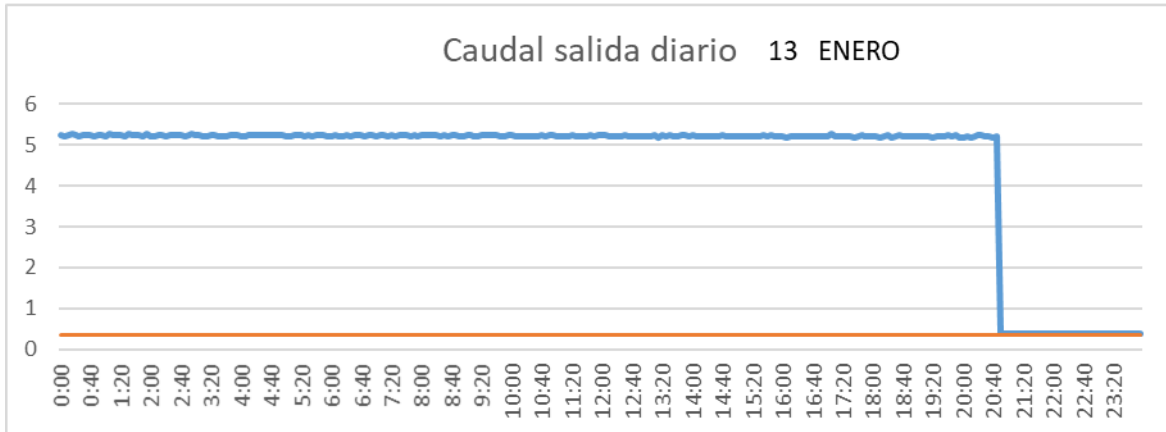
CUENCA



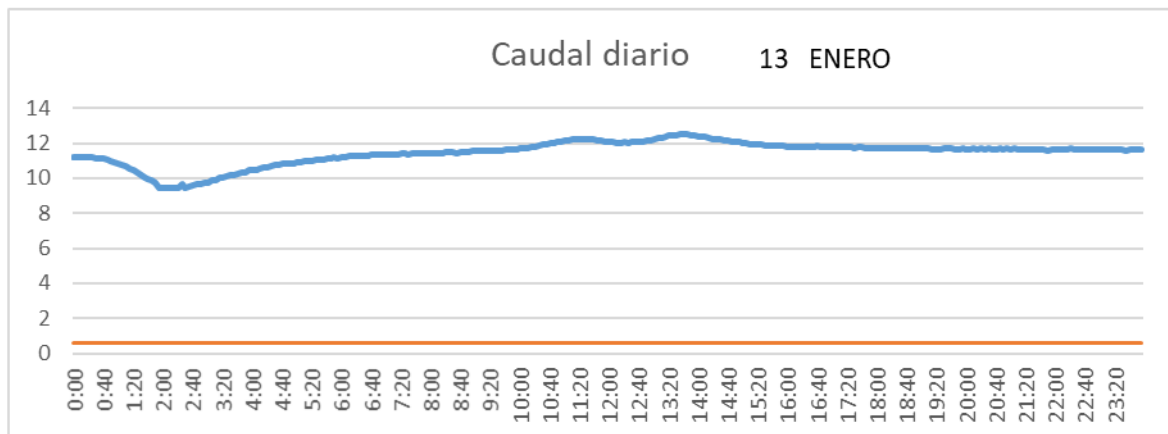
SAN LORENZO PARRILLA



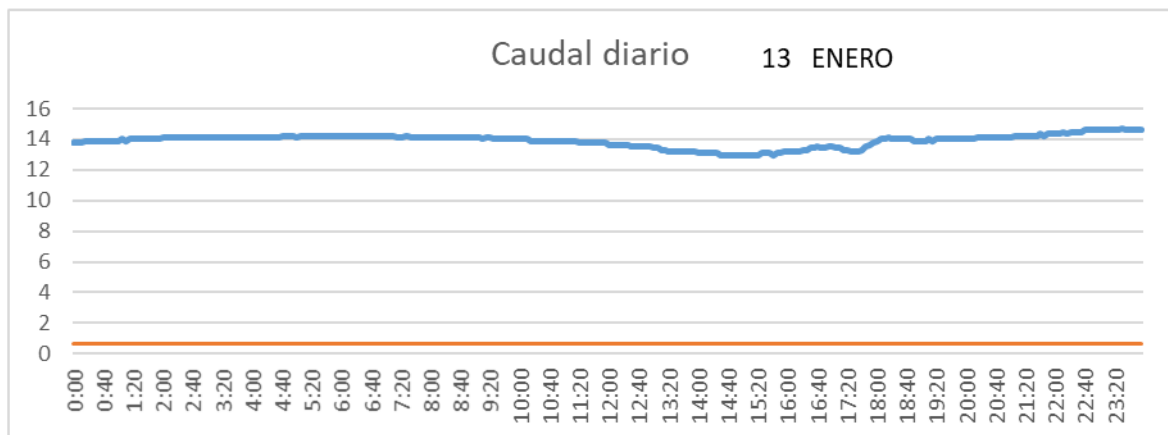
SALIDA TOBA



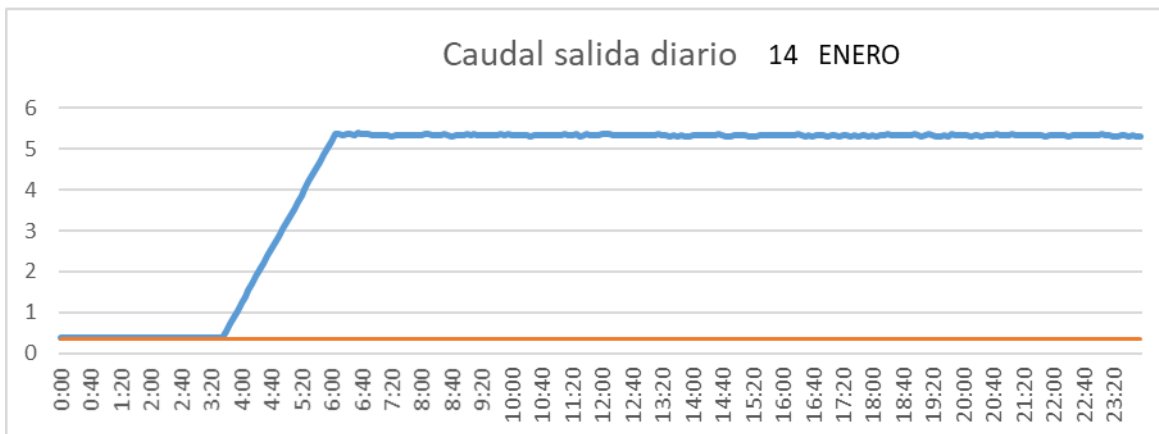
CUENCA



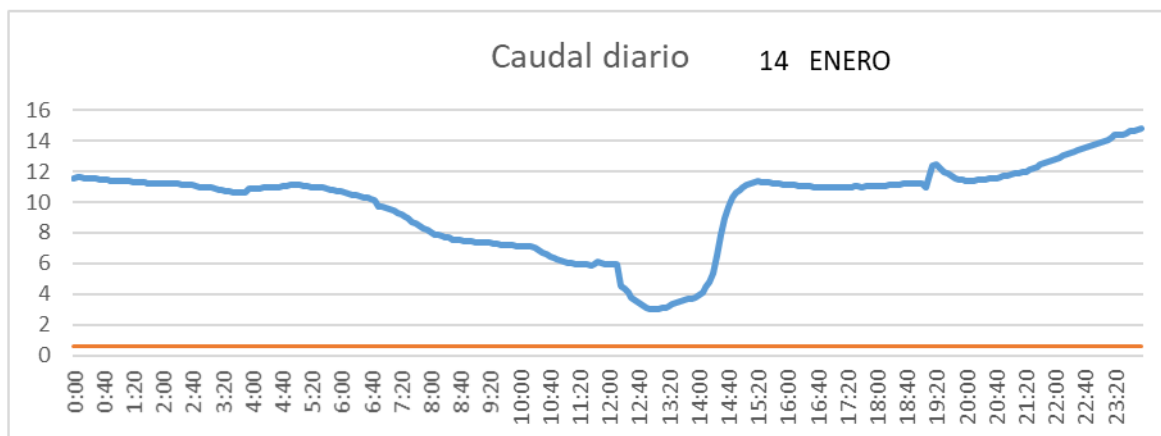
SAN LORENZO PARRILLA



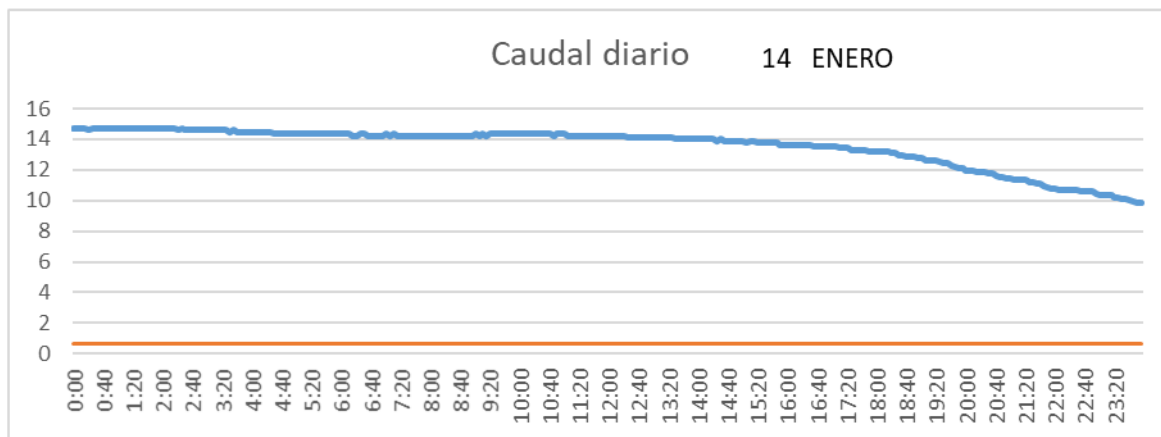
SALIDA TOBA



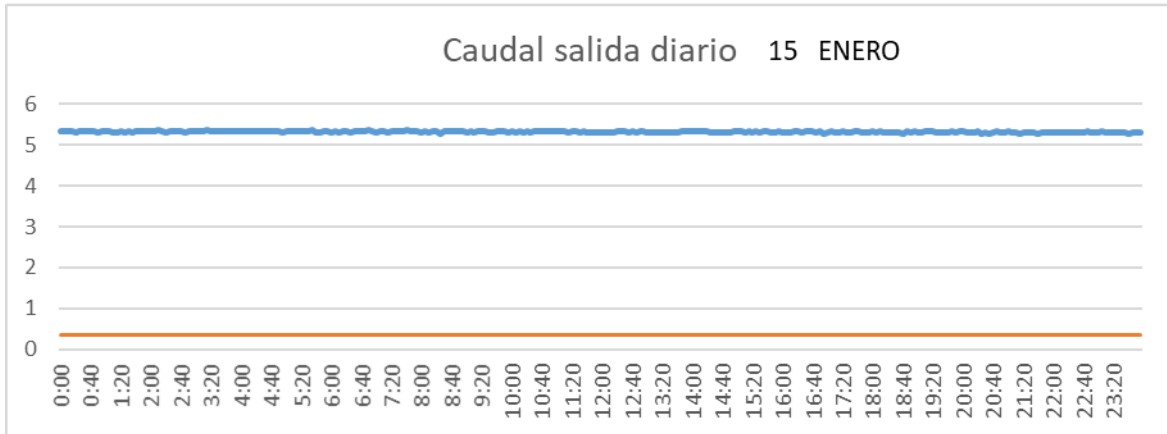
CUENCA



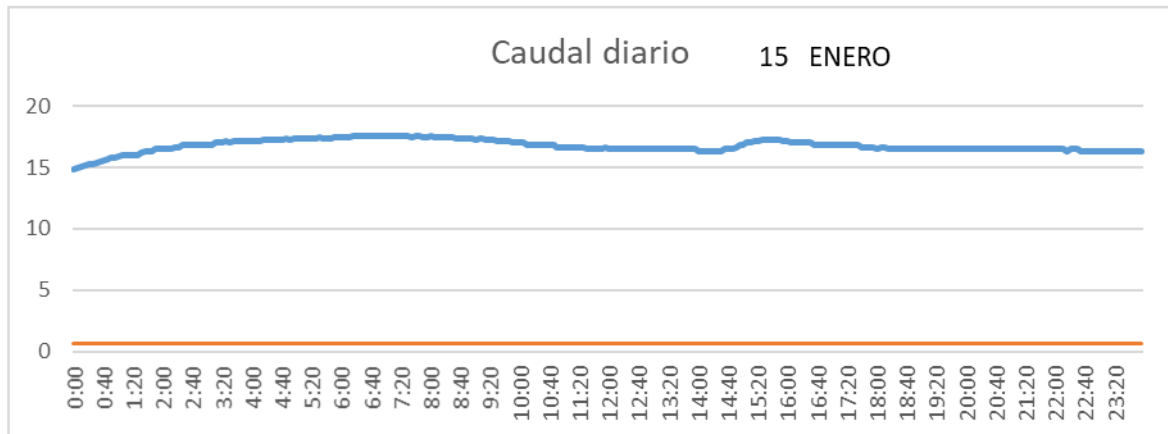
SAN LORENZO PARRILLA



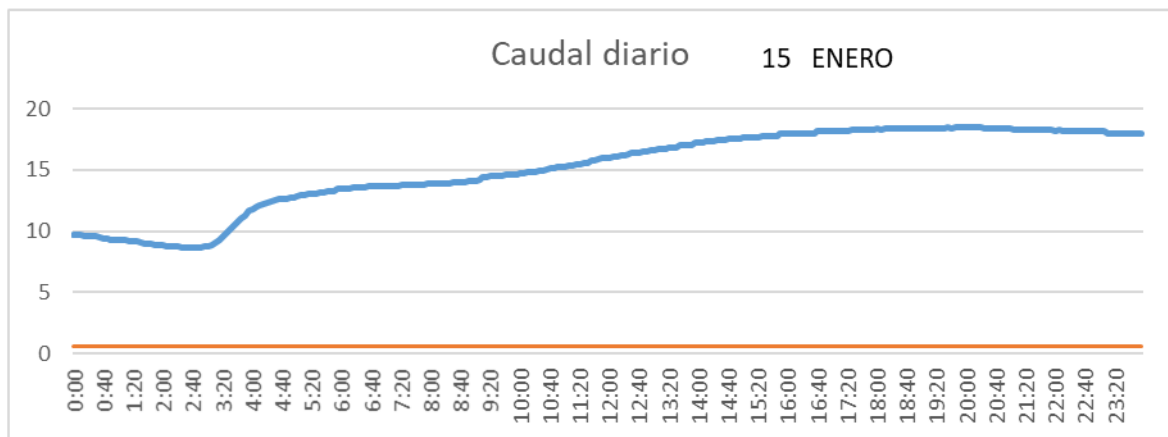
SALIDA TOBA



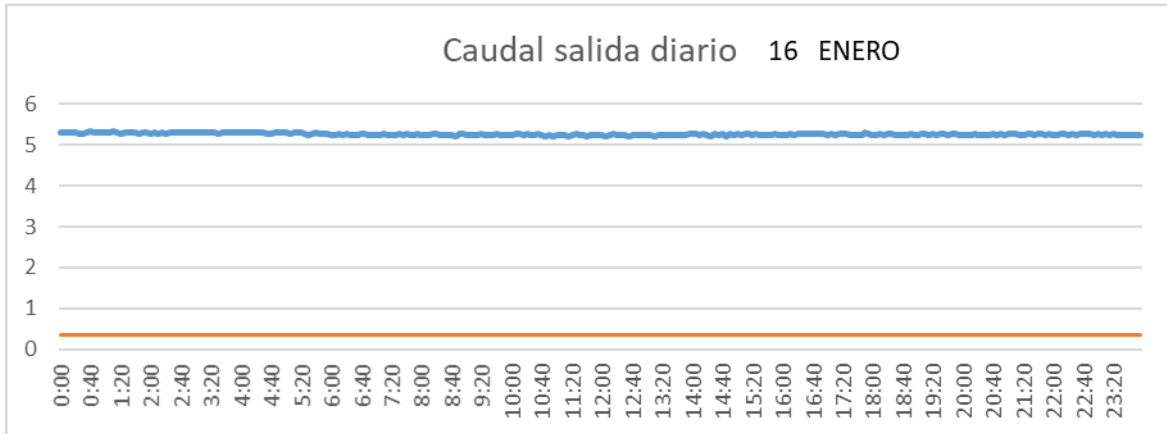
CUENCA



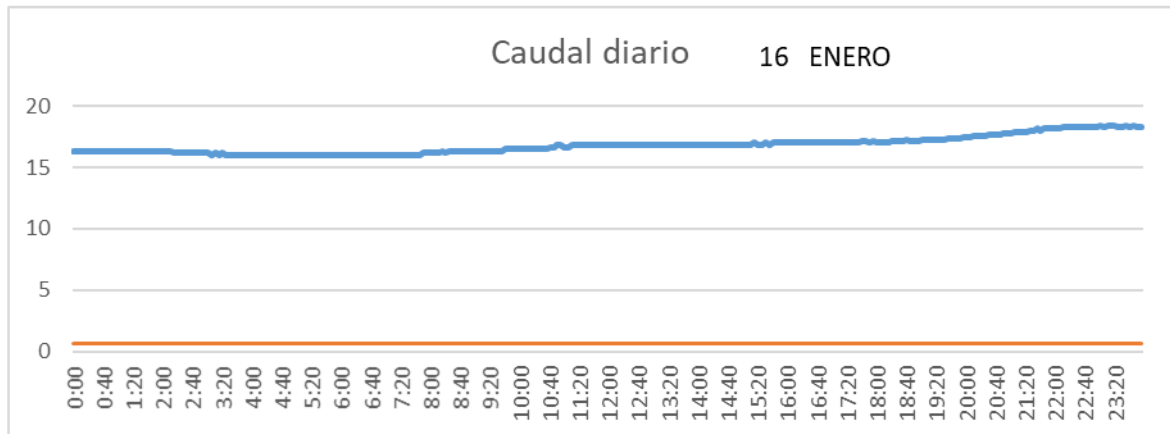
SAN LORENZO PARRILLA



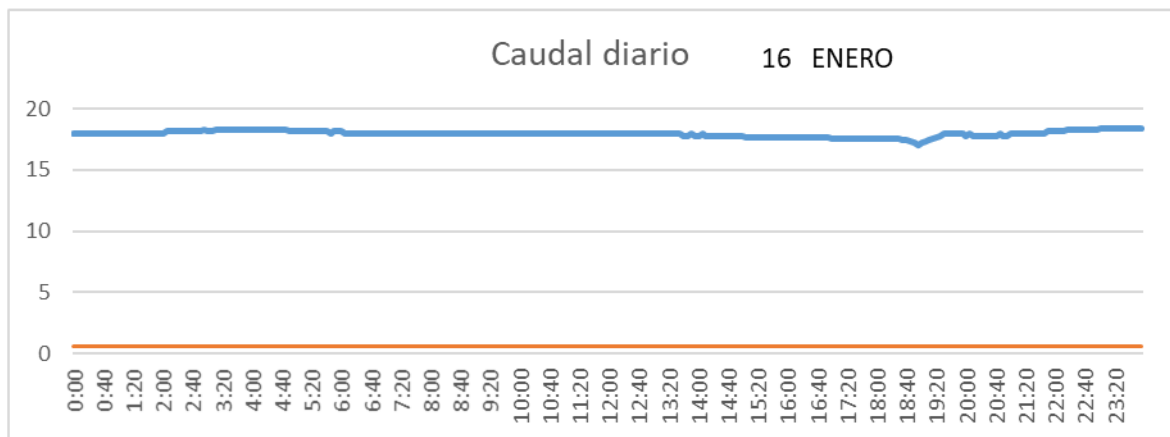
SALIDA TOBA



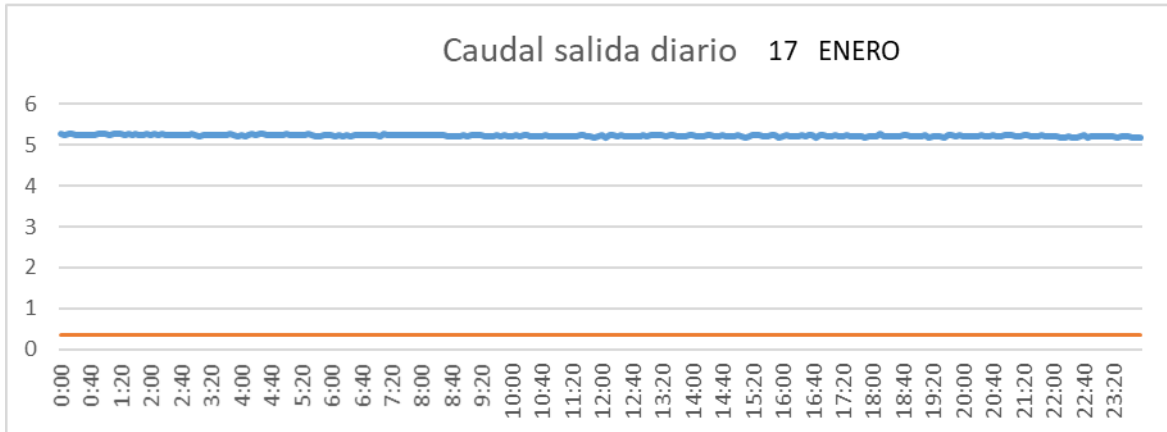
CUENCA



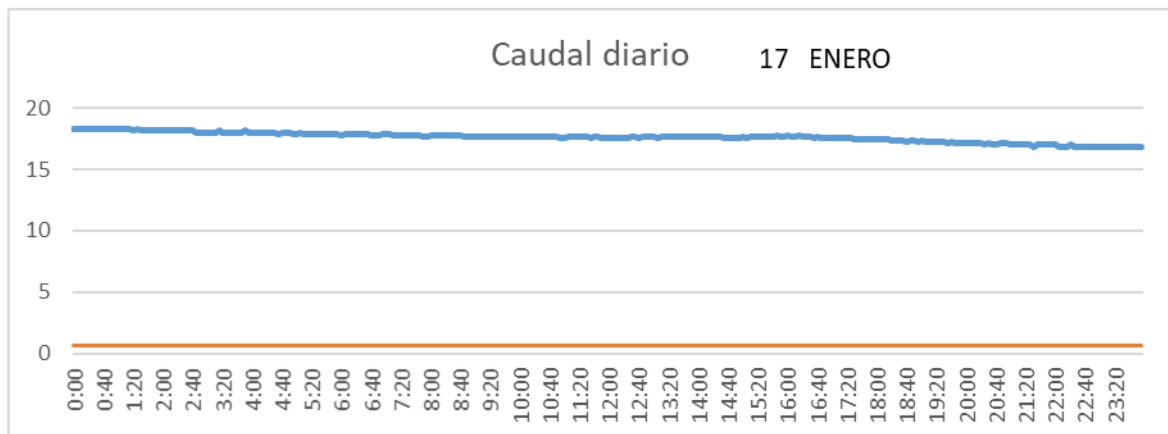
SAN LORENZO PARRILLA



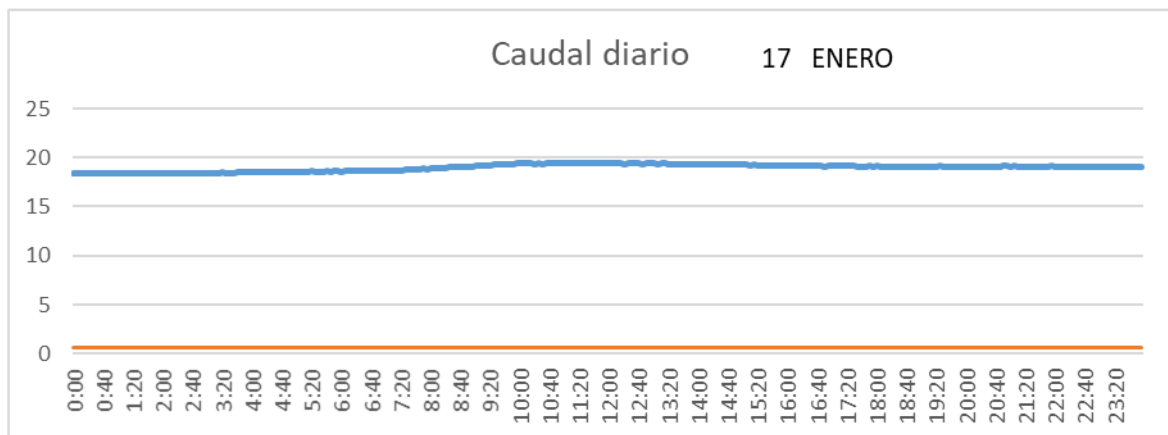
SALIDA TOBA



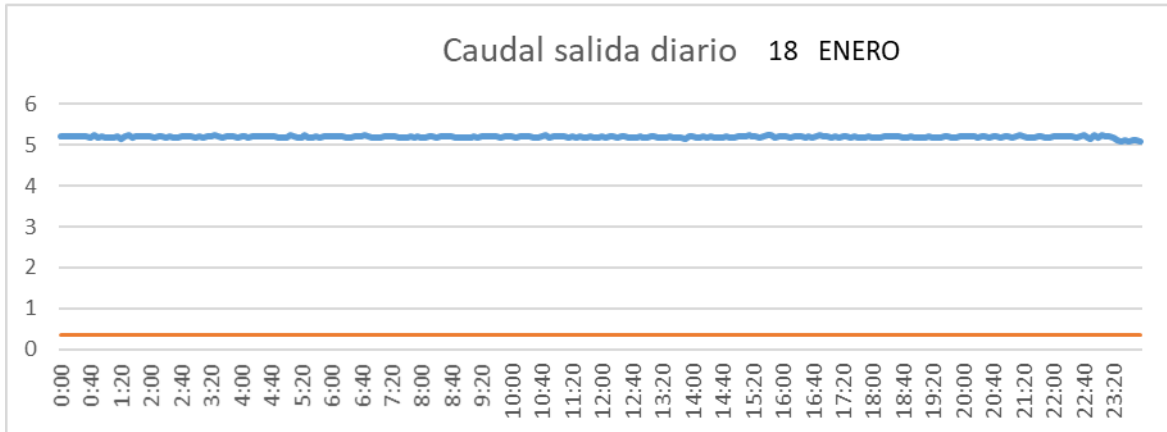
CUENCA



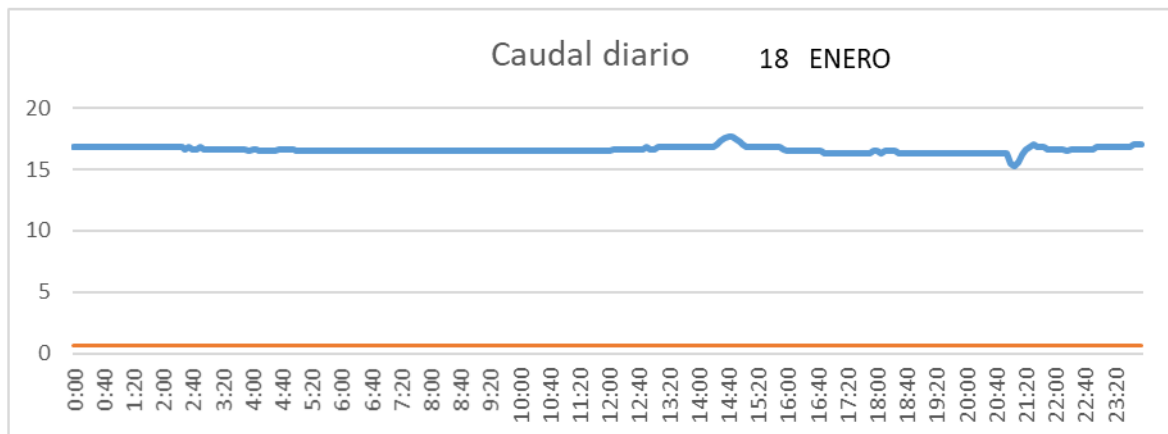
SAN LORENZO PARRILLA



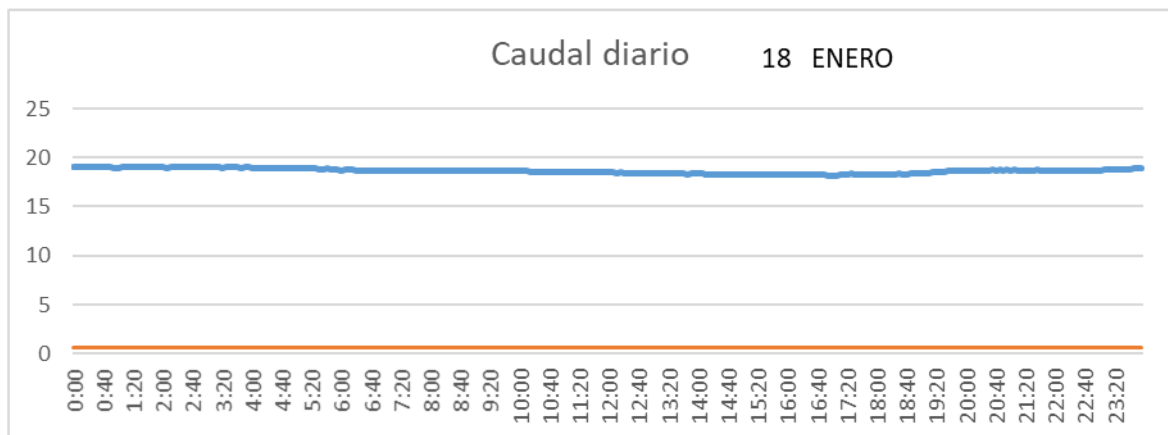
SALIDA TOBA



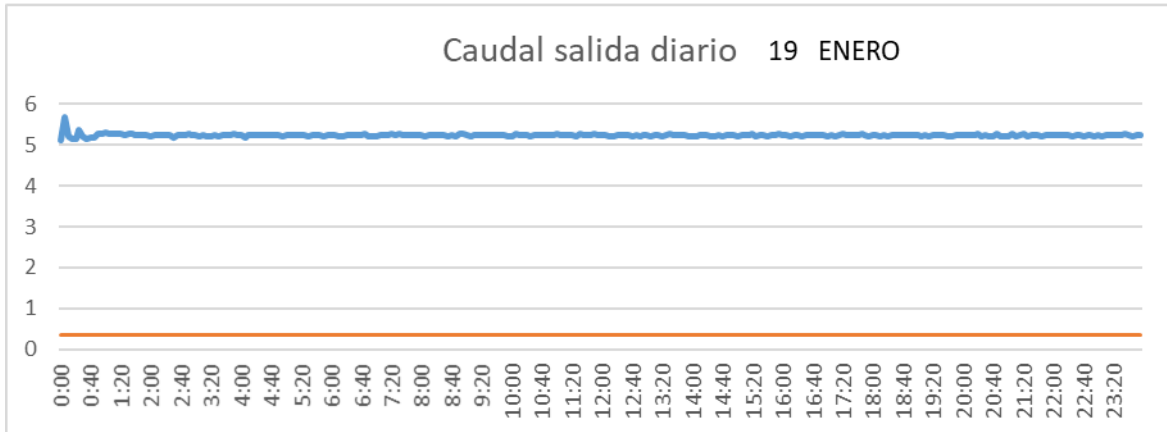
CUENCA



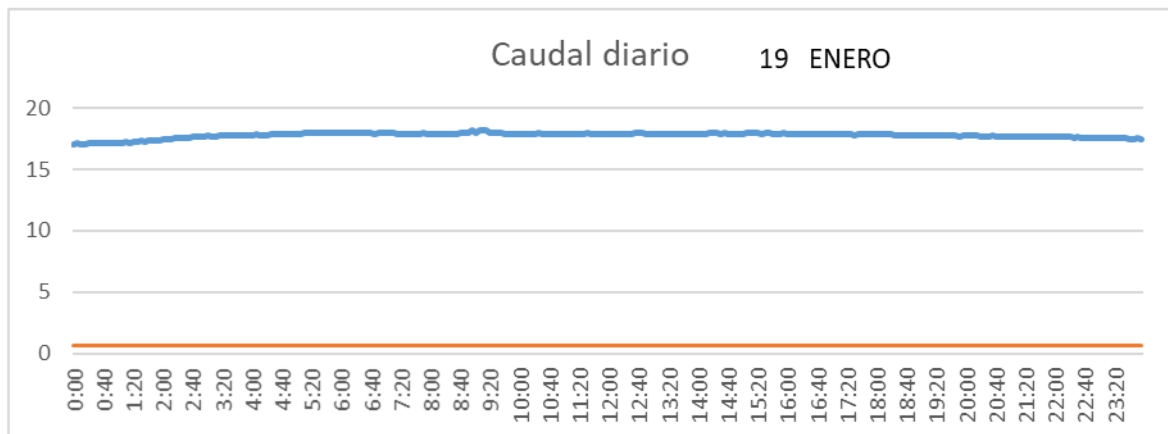
SAN LORENZO PARRILLA



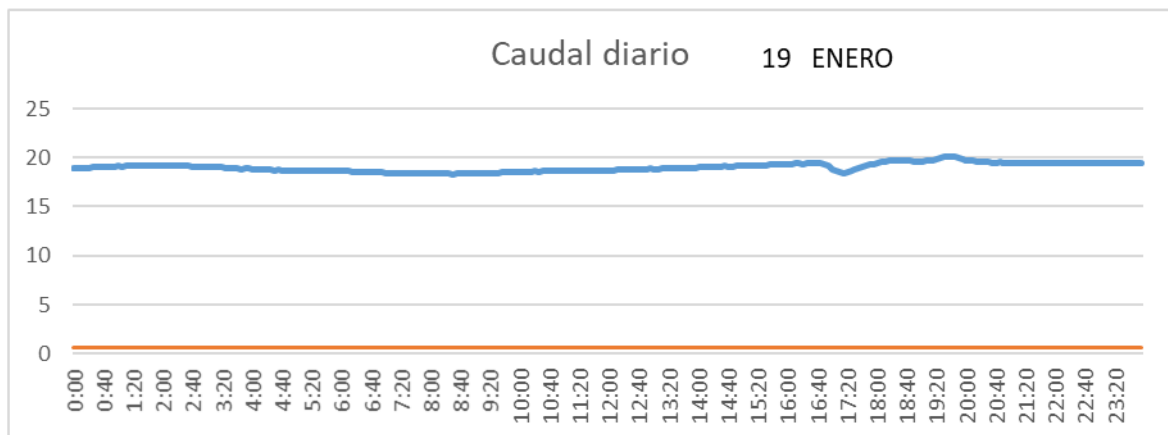
SALIDA TOBA



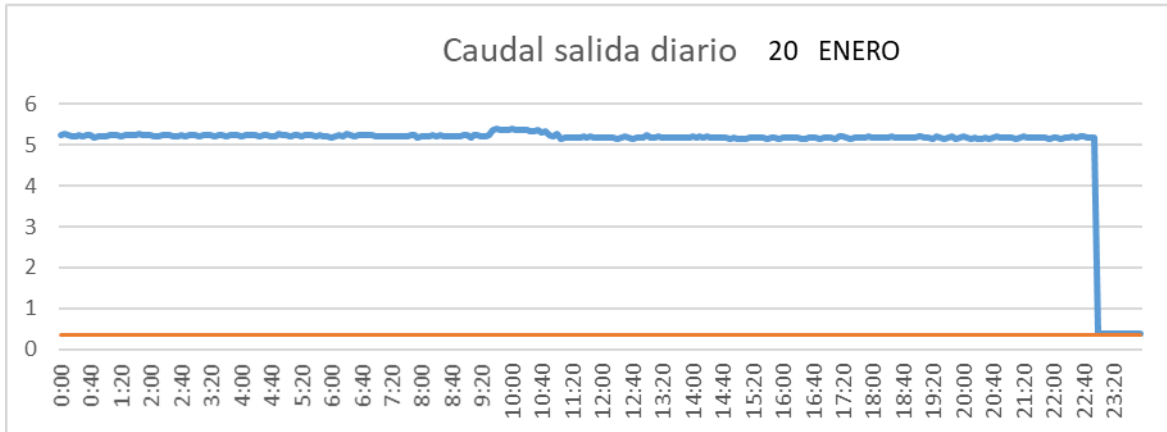
CUENCA



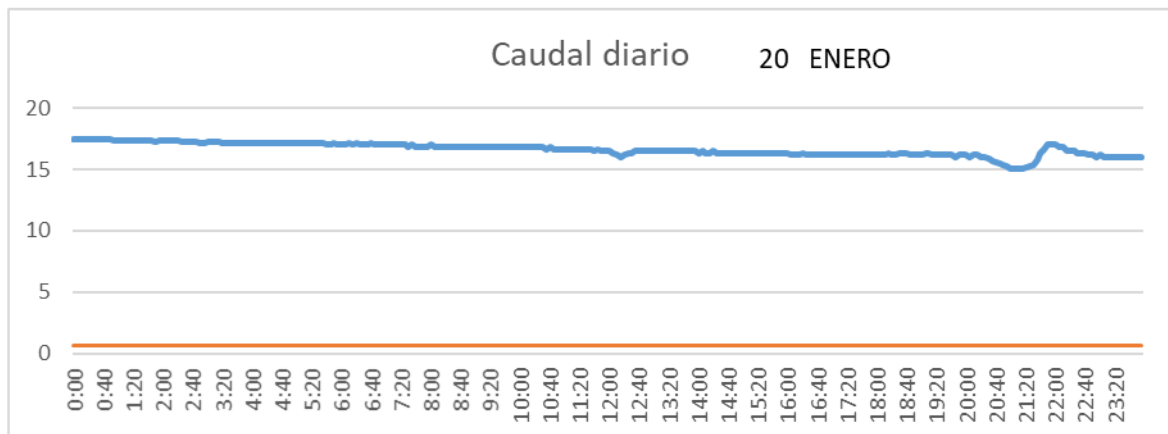
SAN LORENZO PARRILLA



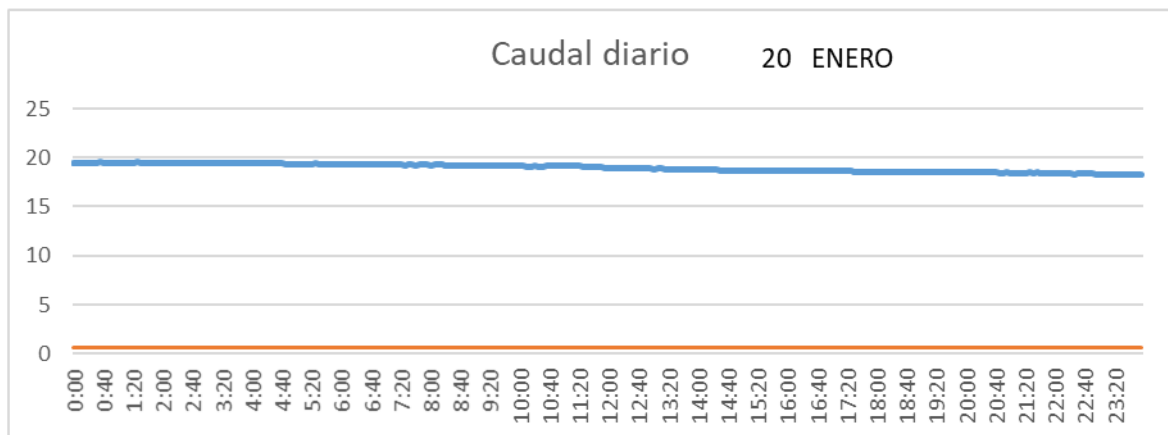
SALIDA TOBA



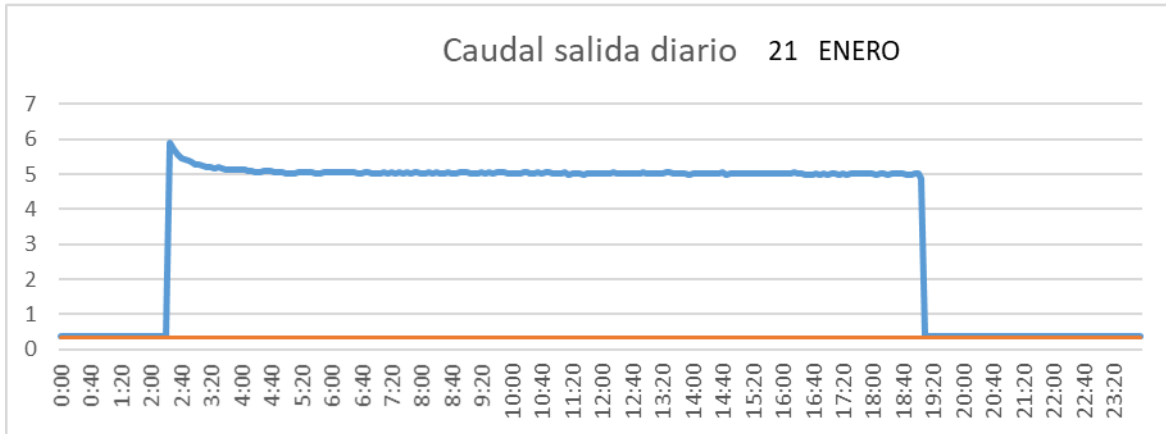
CUENCA



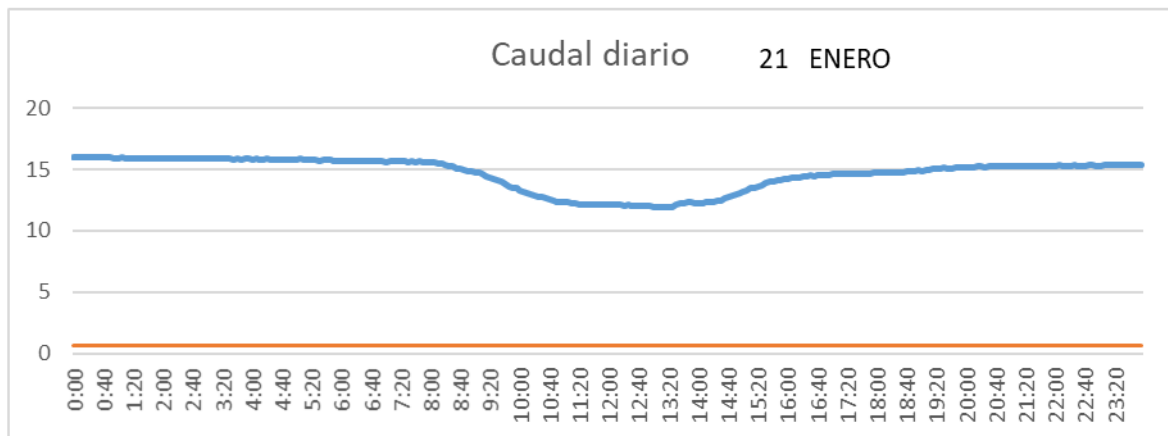
SAN LORENZO PARRILLA



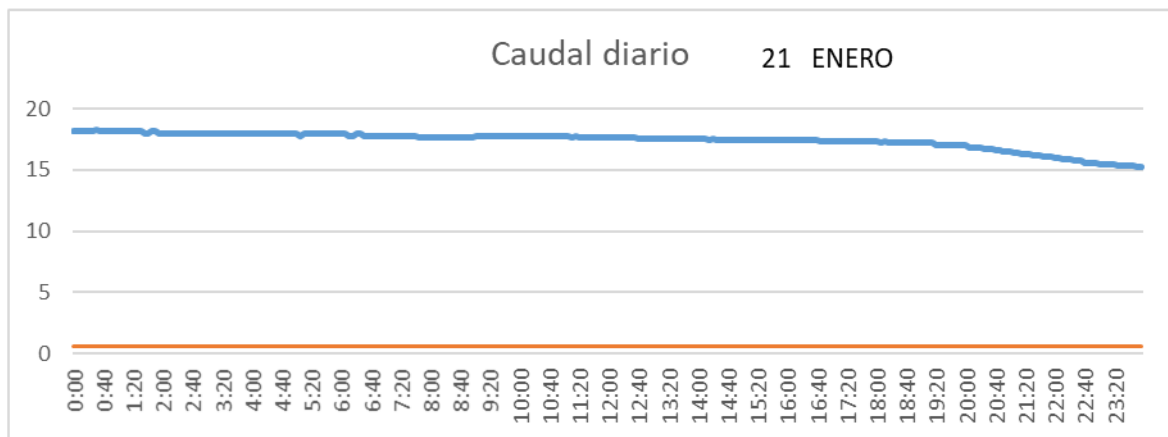
SALIDA TOBA



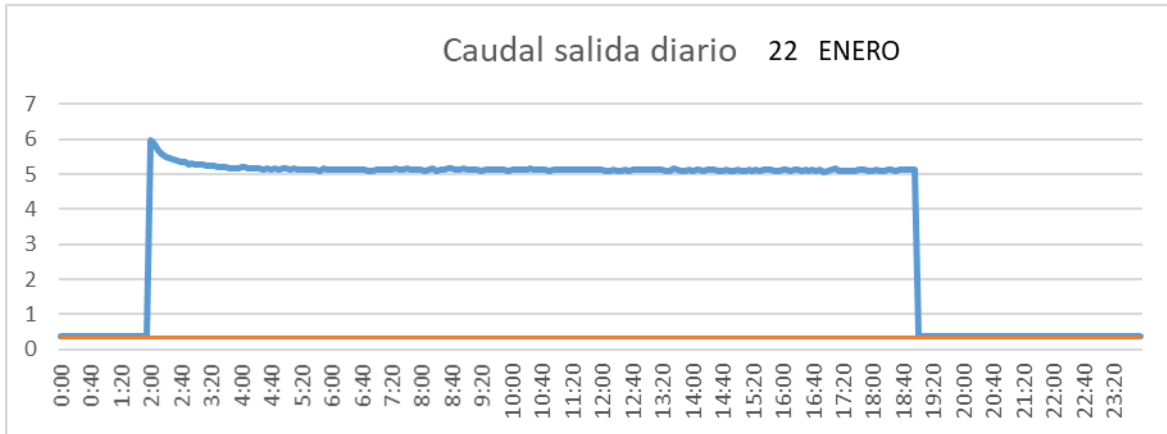
CUENCA



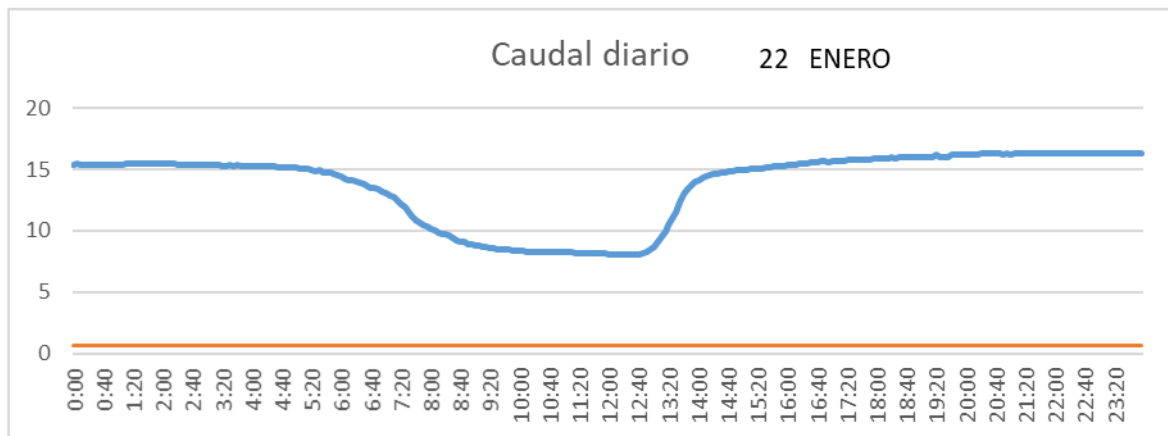
SAN LORENZO PARRILLA



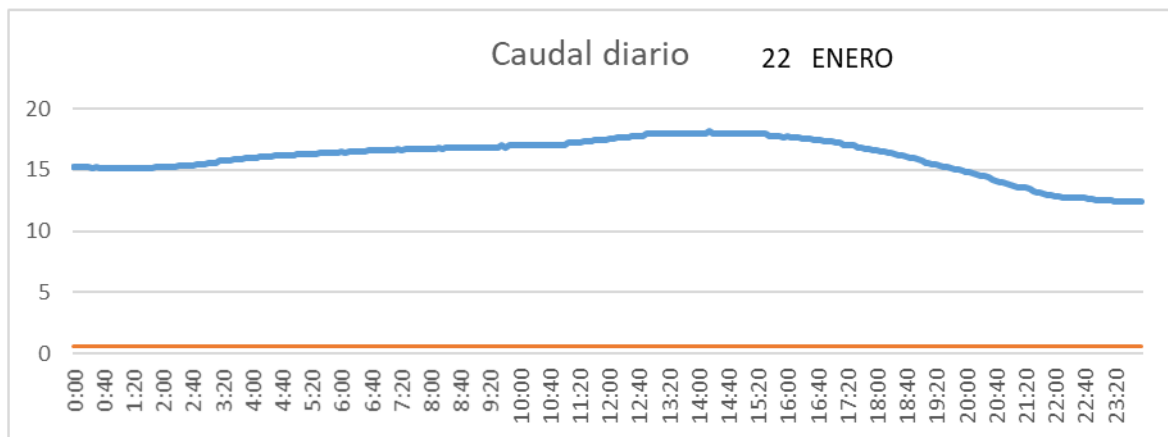
SALIDA TOBA



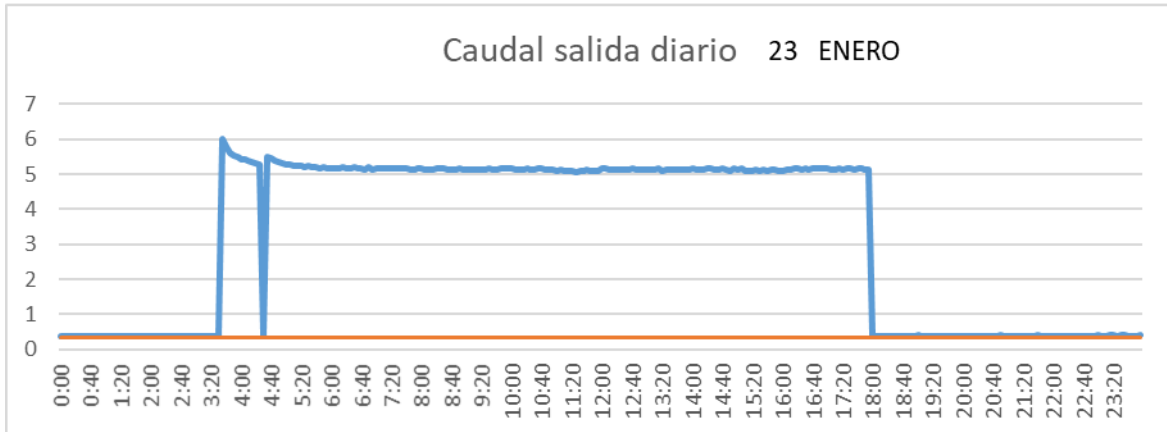
CUENCA



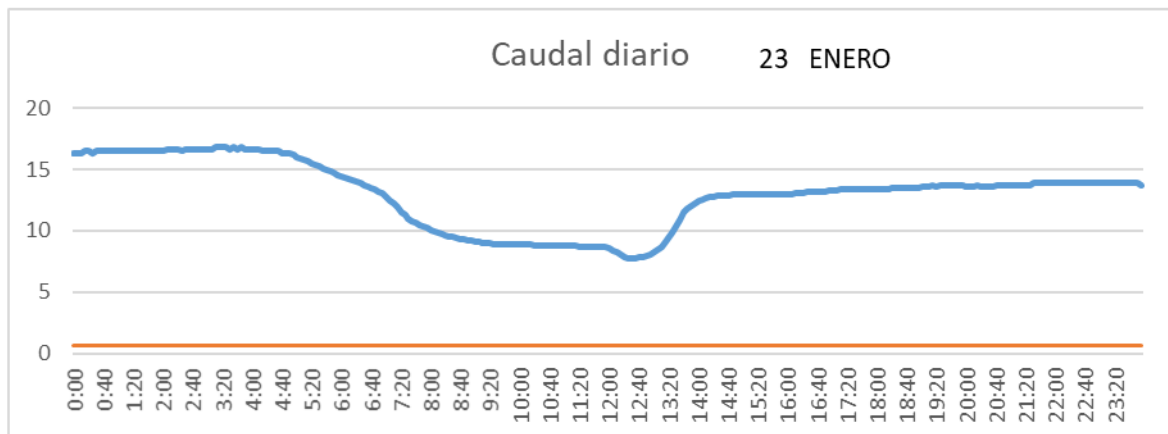
SAN LORENZO PARRILLA



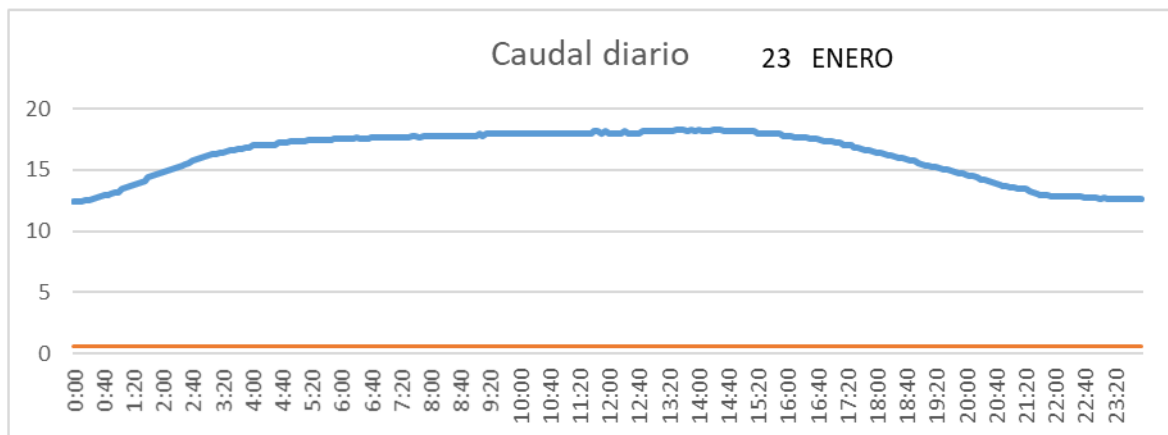
SALIDA TOBA



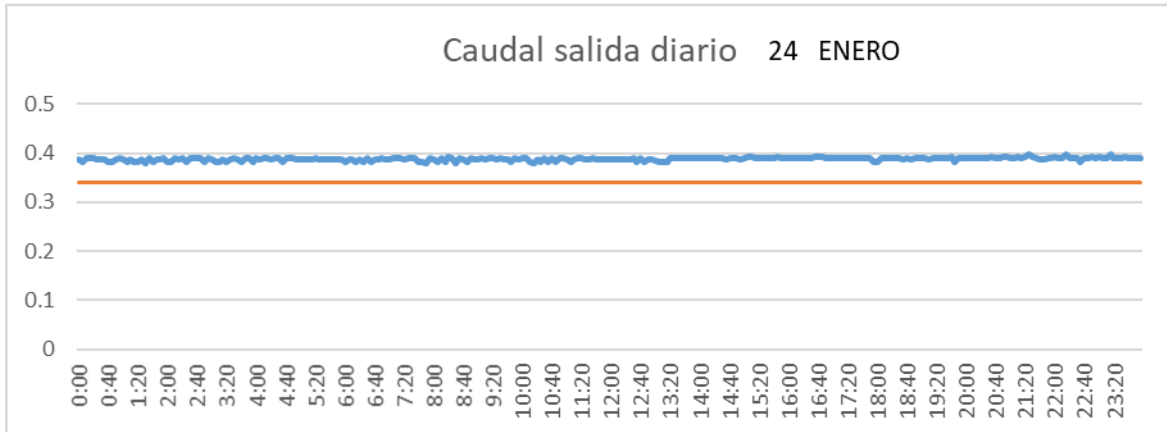
CUENCA



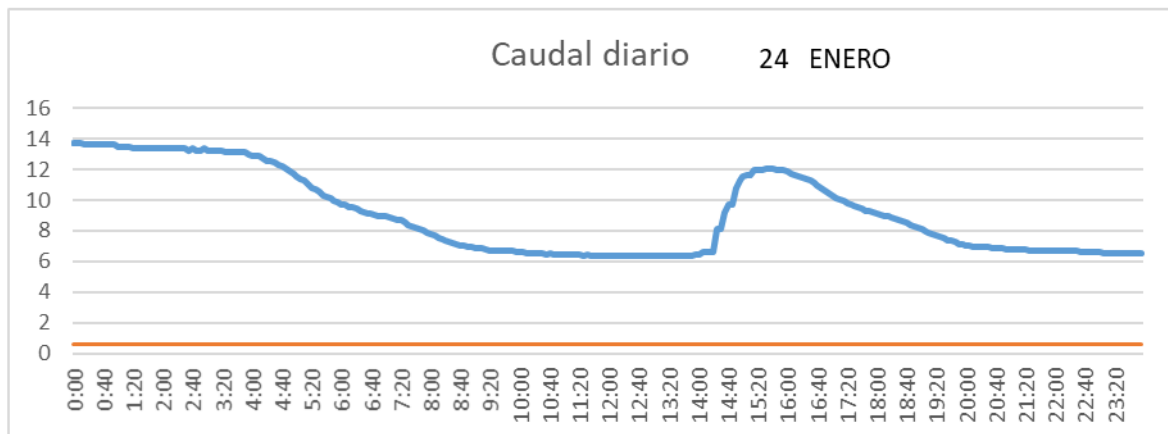
SAN LORENZO PARRILLA



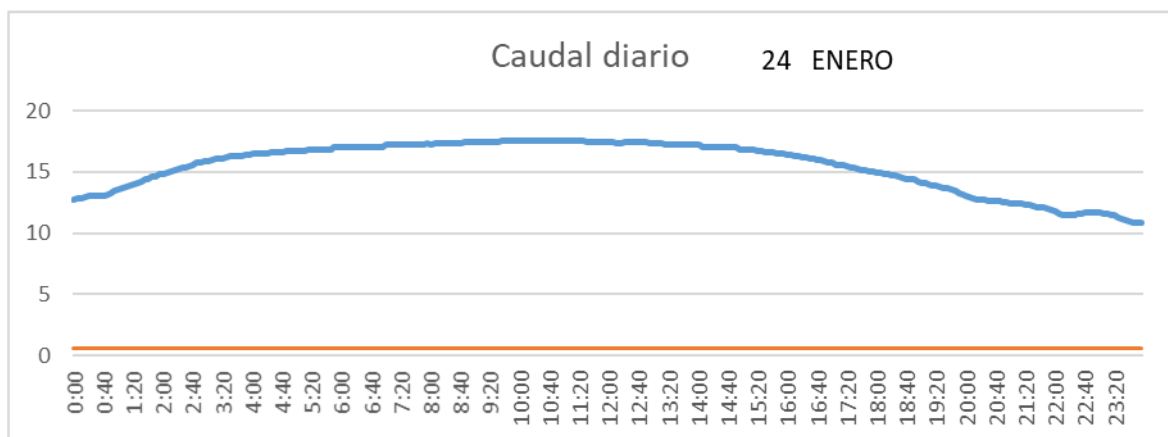
SALIDA TOBA



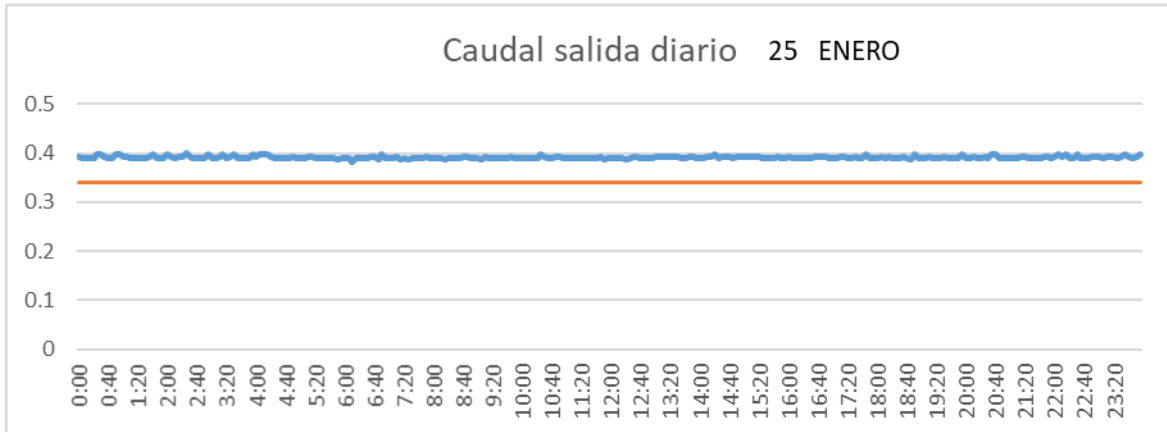
CUENCA



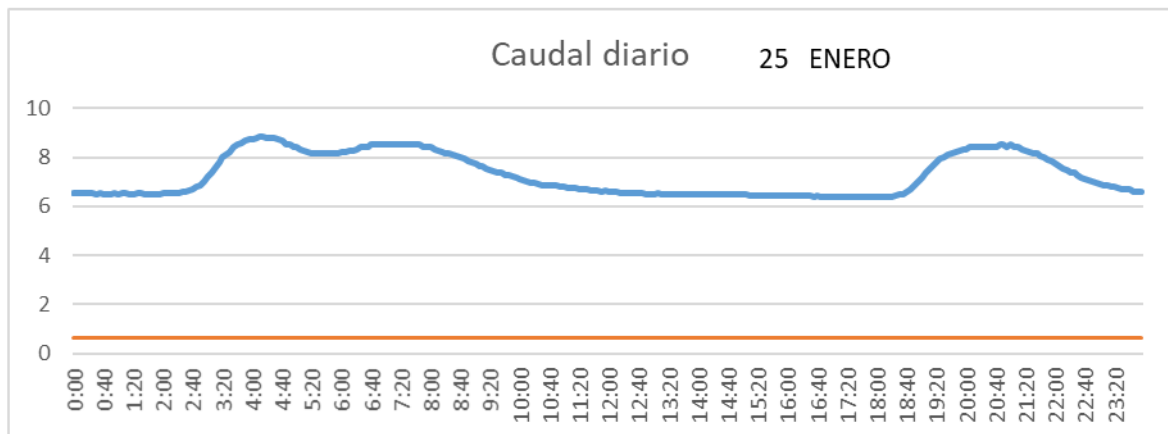
SAN LORENZO PARRILLA



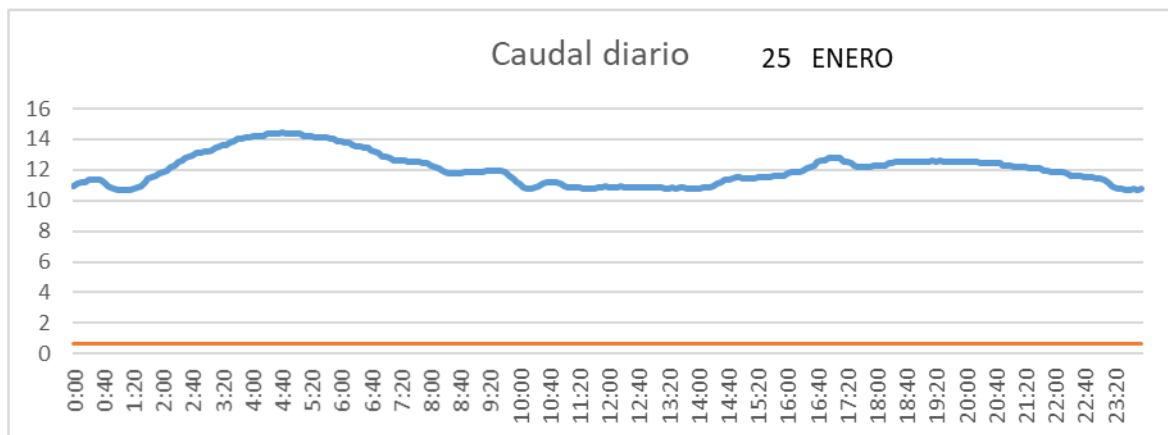
SALIDA TOBA



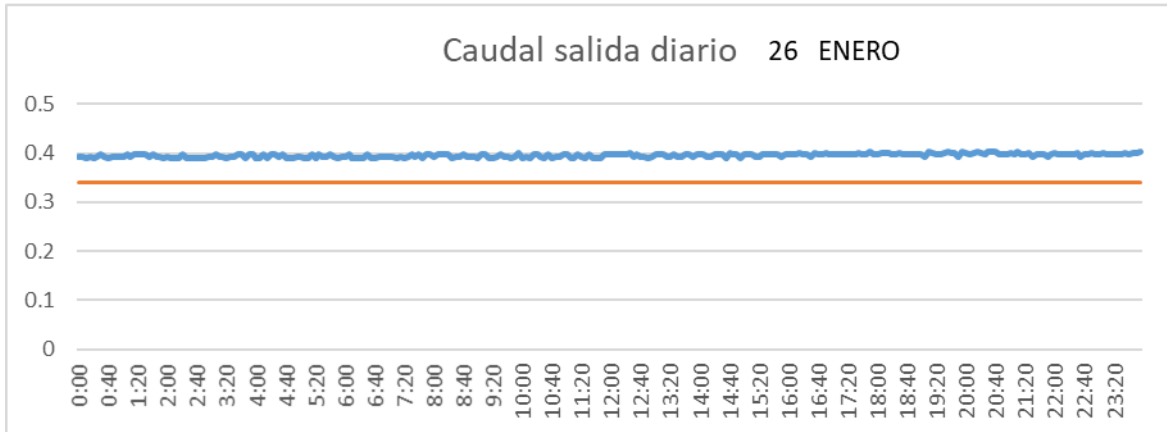
CUENCA



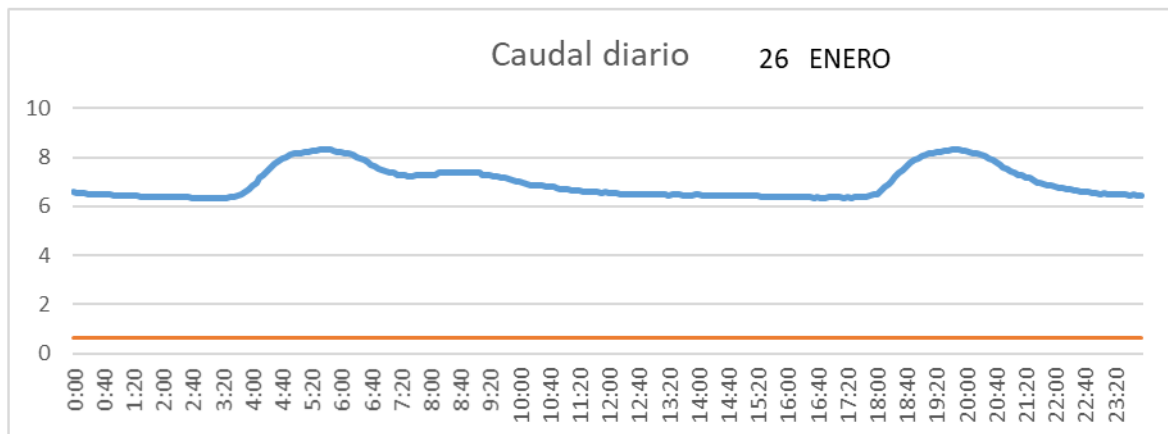
SAN LORENZO PARRILLA



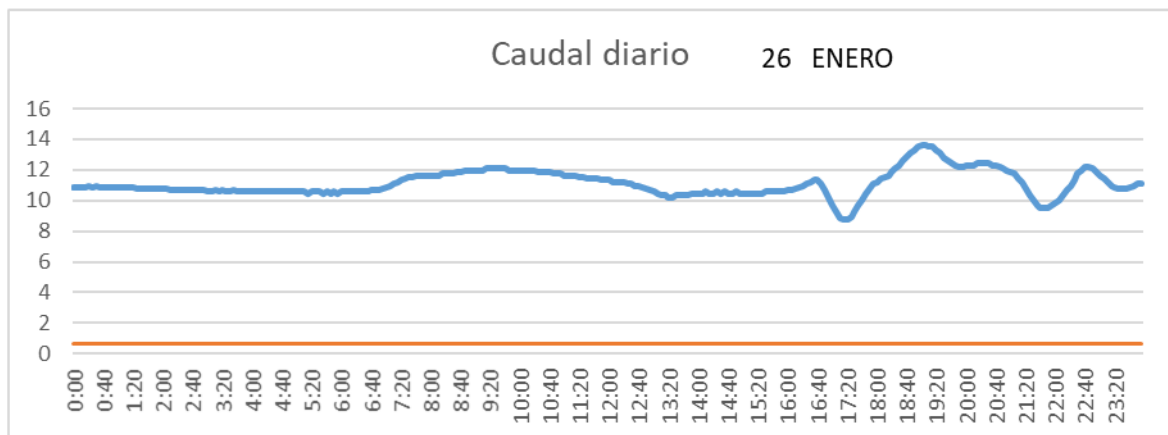
SALIDA TOBA



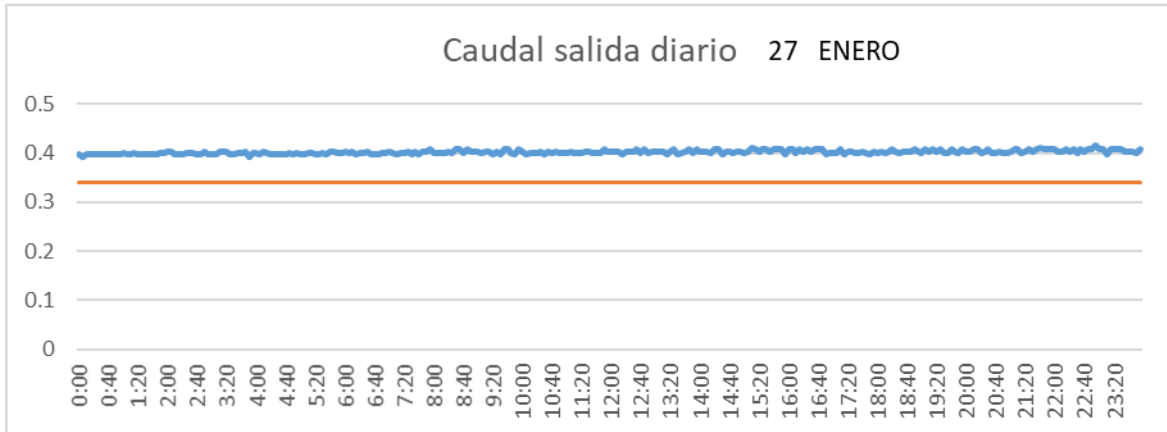
CUENCA



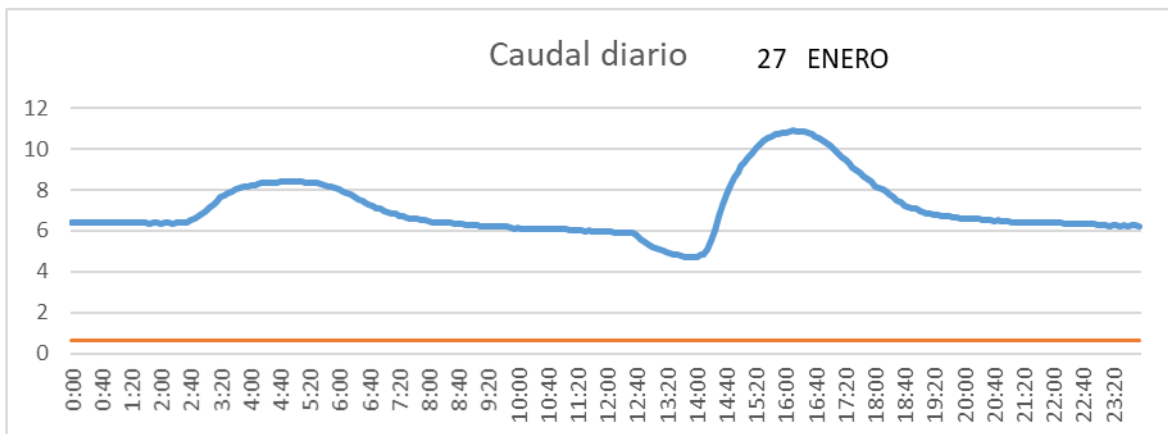
SAN LORENZO PARRILLA



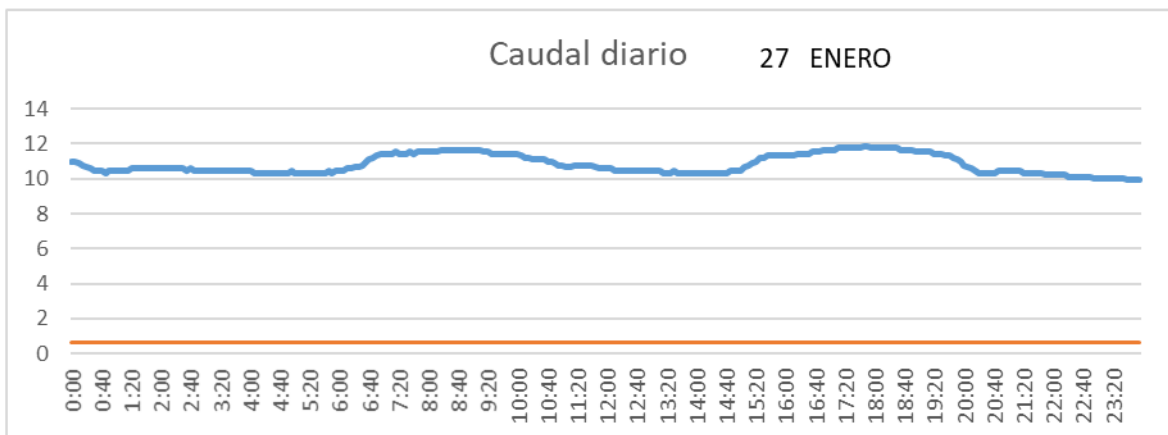
SALIDA TOBA



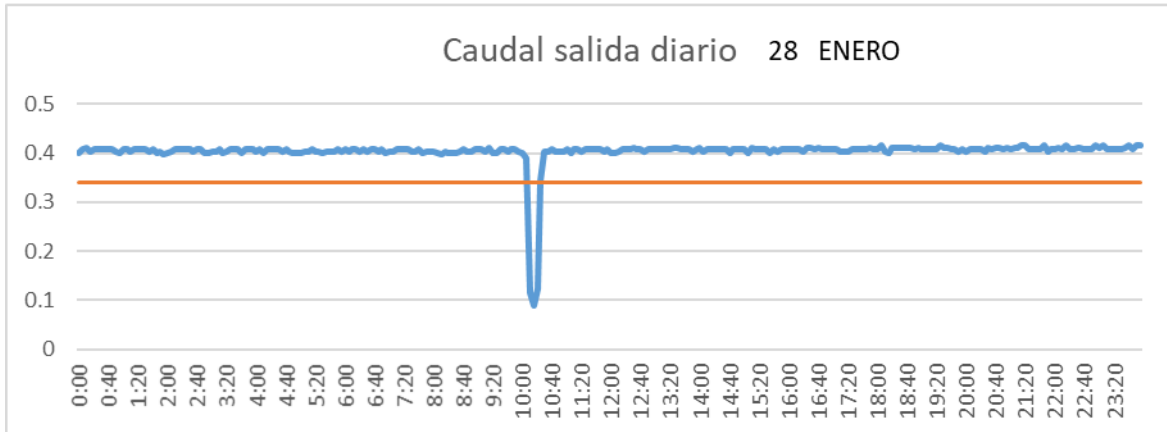
CUENCA



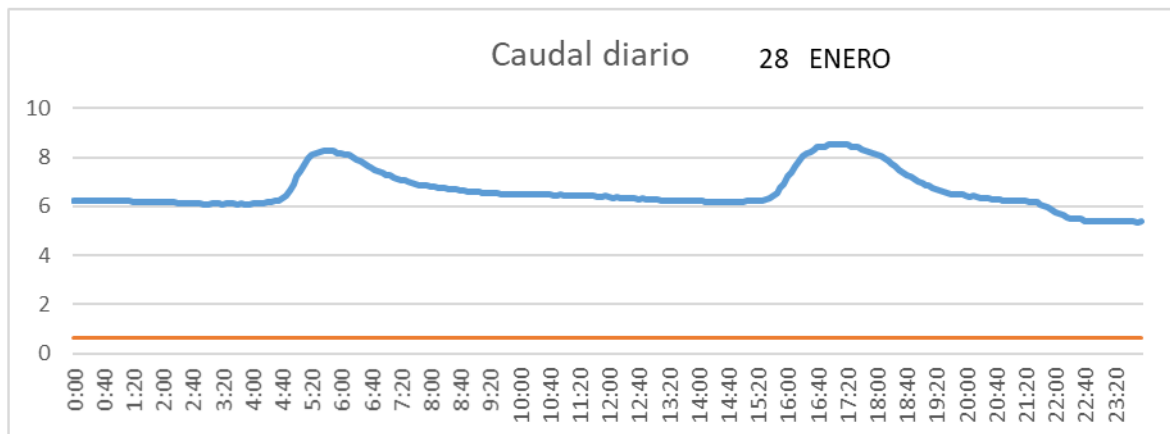
SAN LORENZO PARRILLA



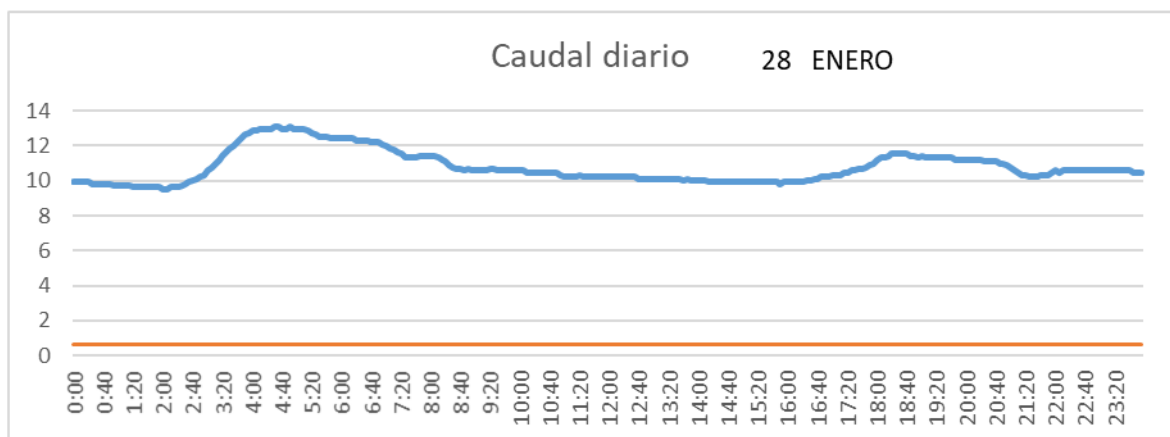
SALIDA TOBA



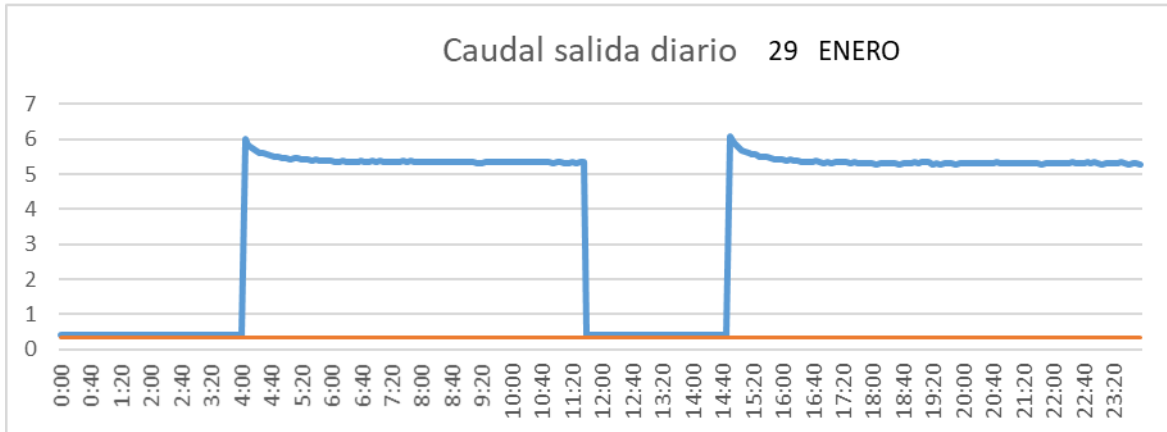
CUENCA



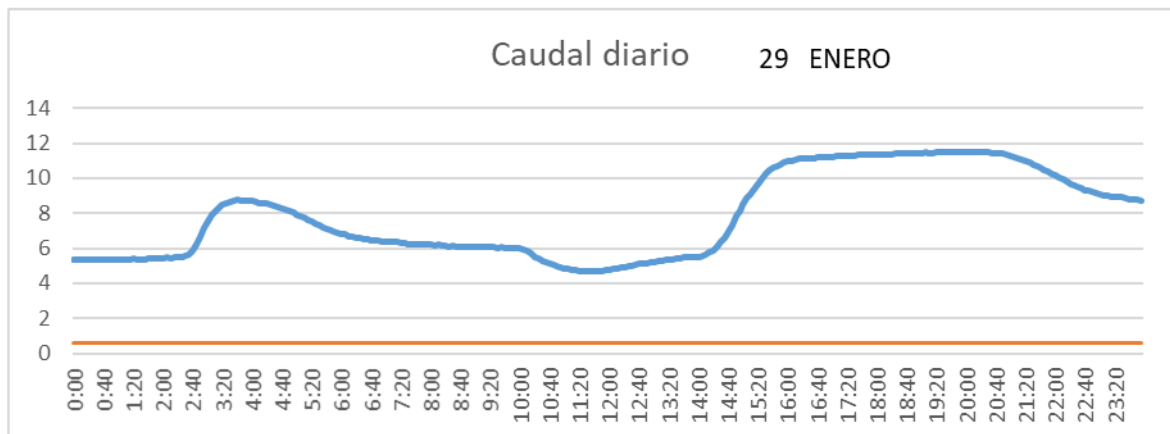
SAN LORENZO PARRILLA



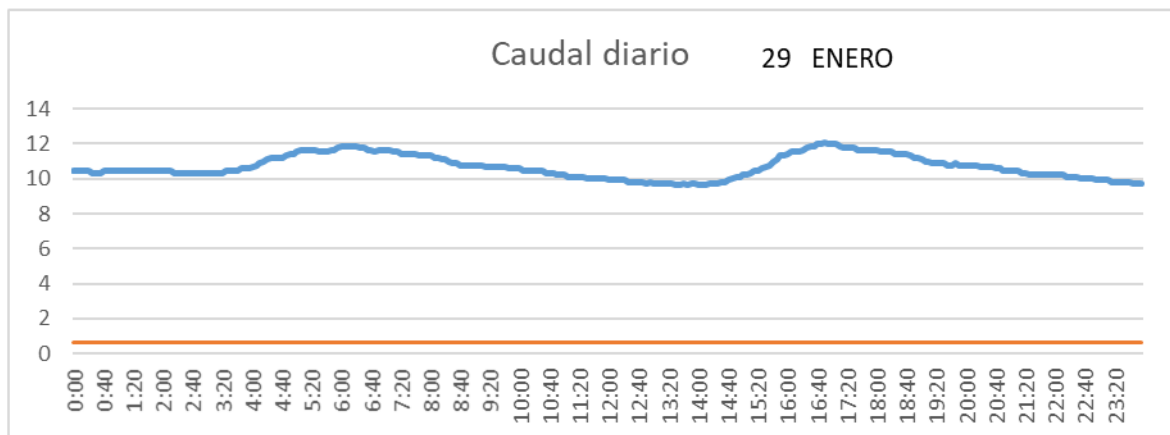
SALIDA TOBA



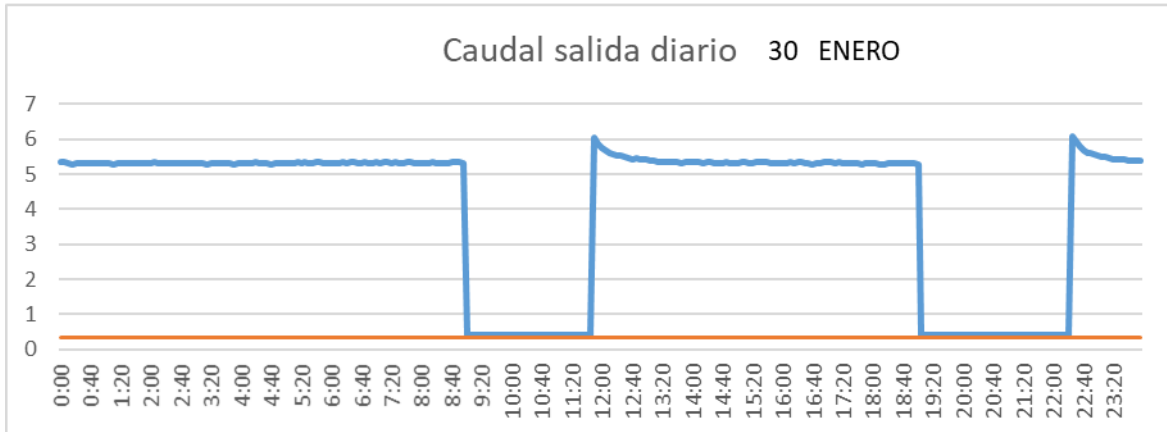
CUENCA



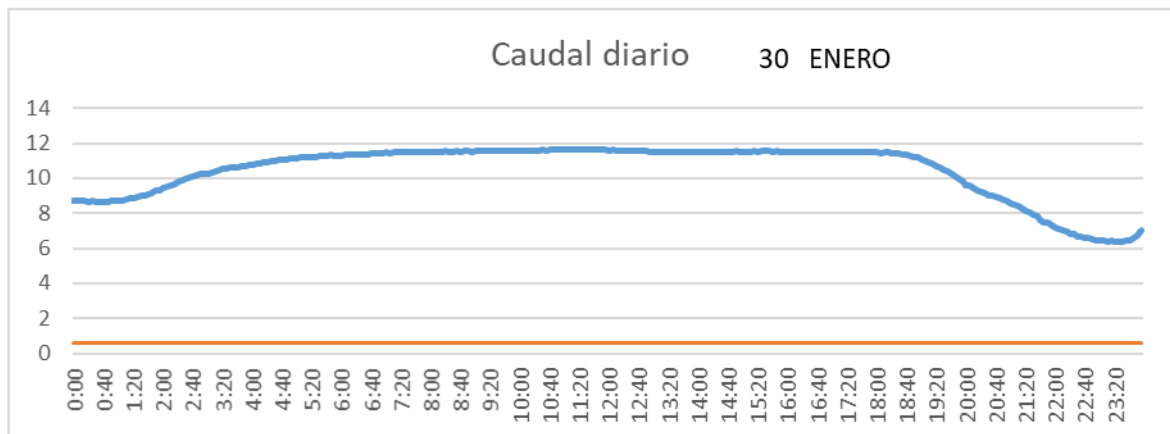
SAN LORENZO PARRILLA



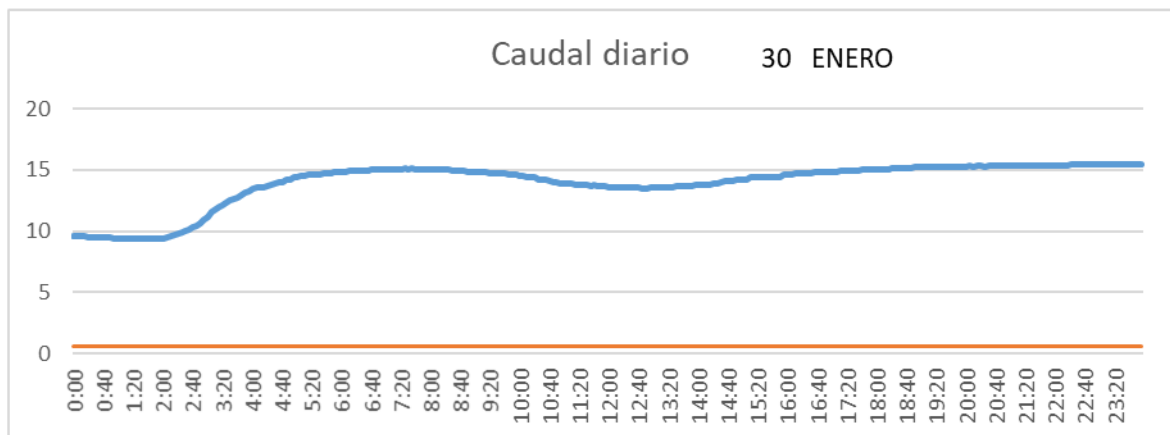
SALIDA TOBA



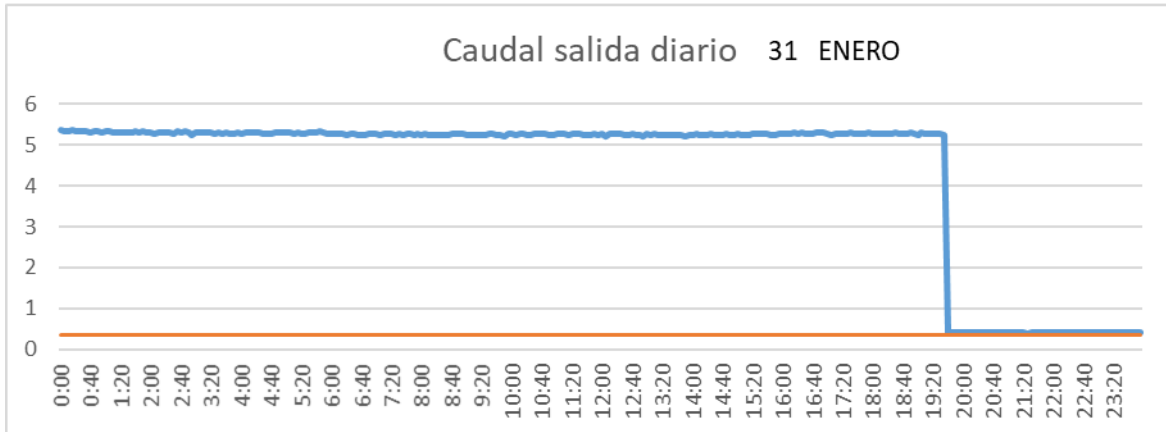
CUENCA



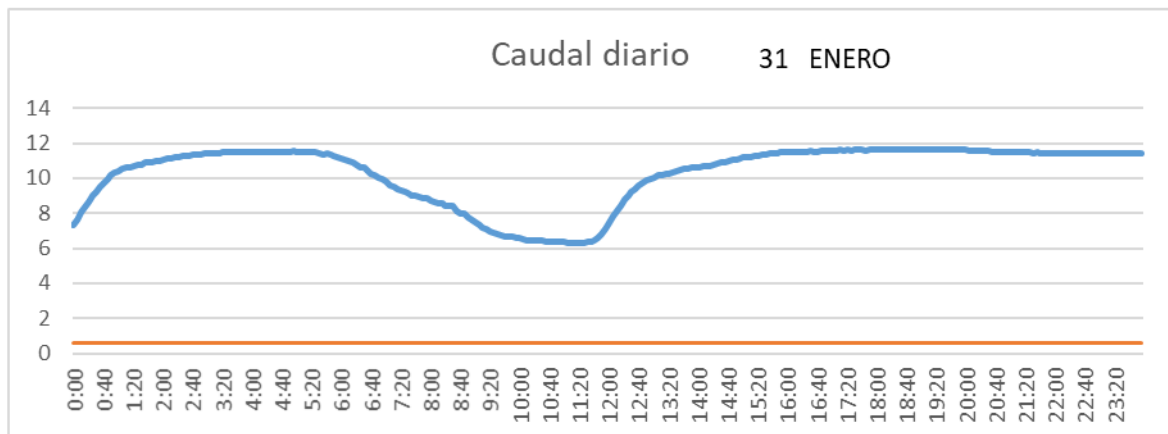
SAN LORENZO PARRILLA



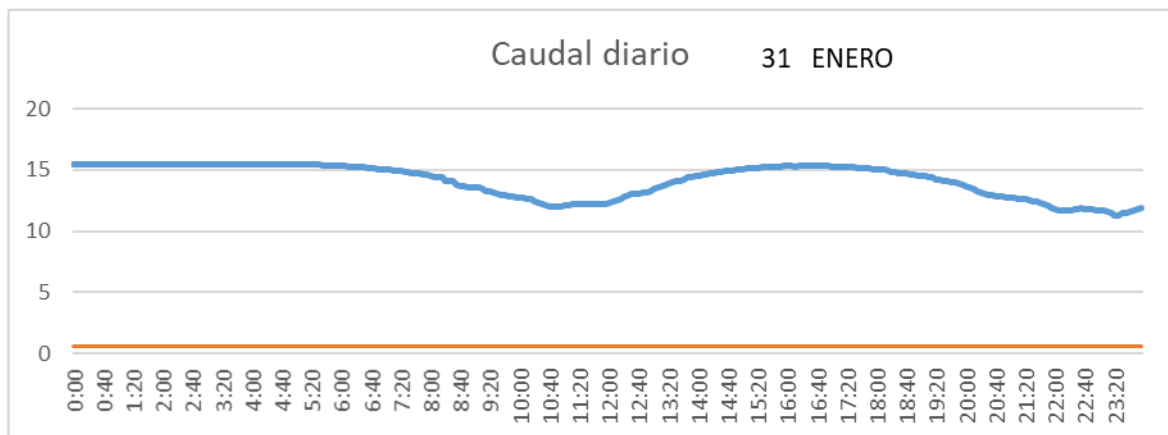
SALIDA TOBA



CUENCA

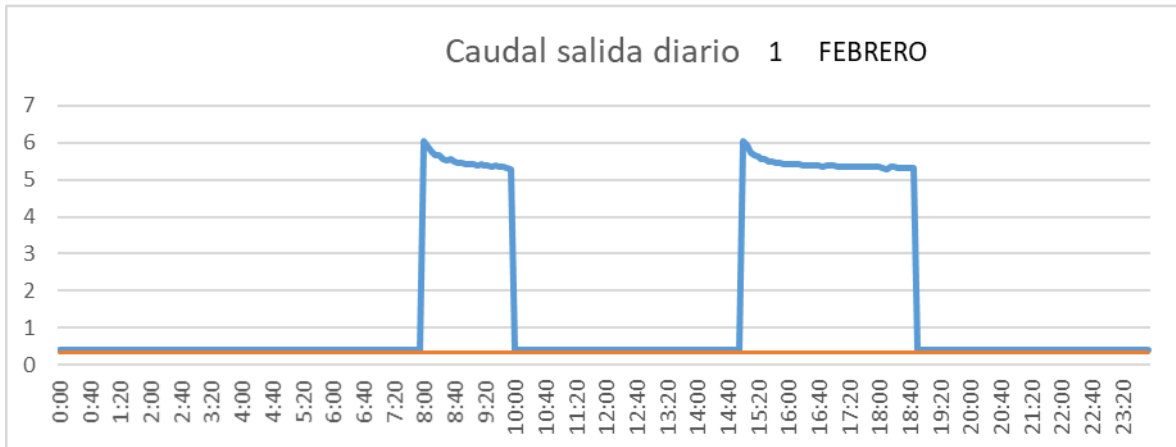


SAN LORENZO PARRILLA

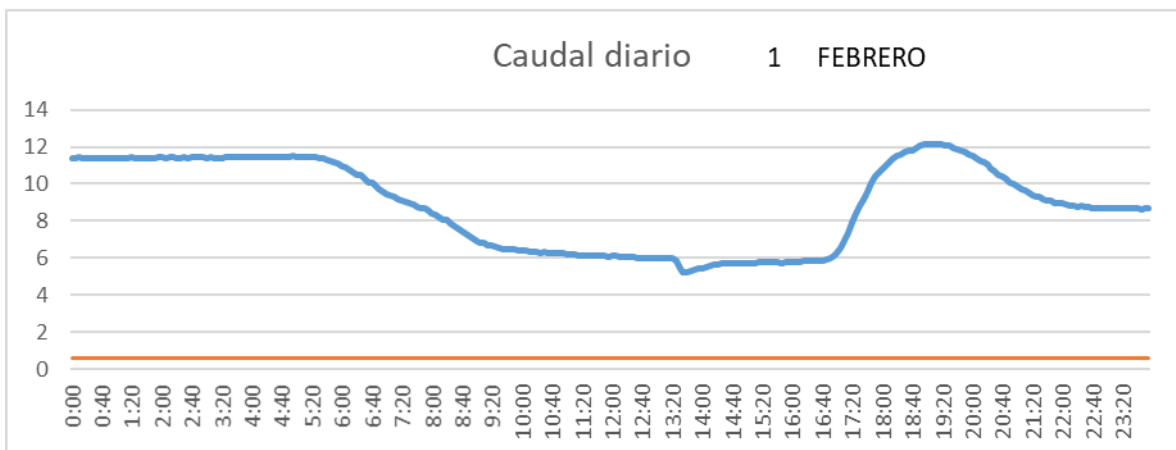


2.1.2 Febrero

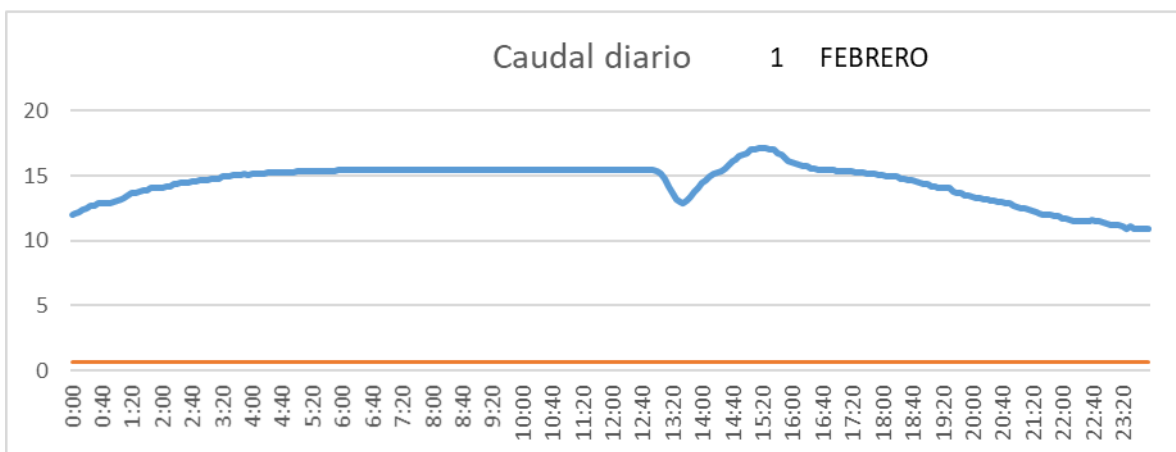
SALIDA TOBA



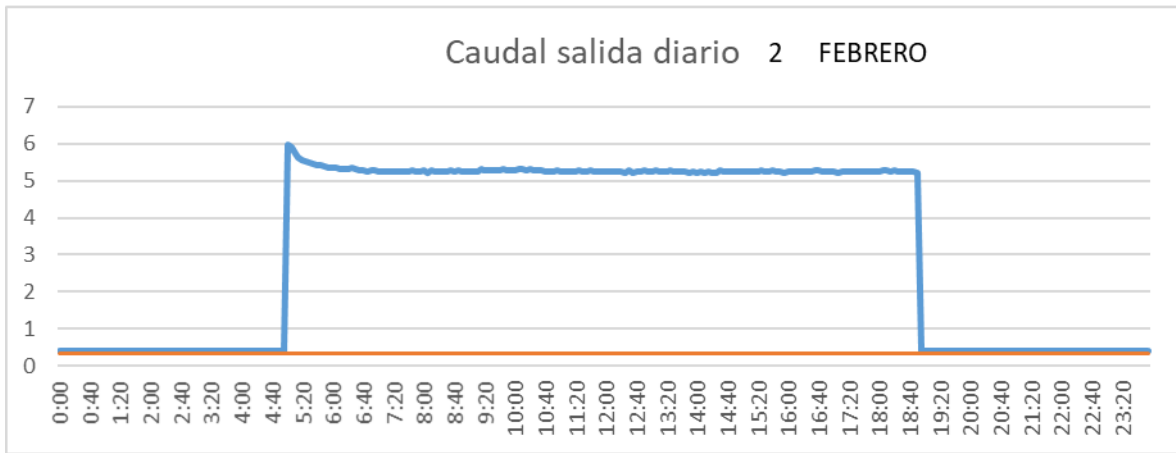
CUENCA



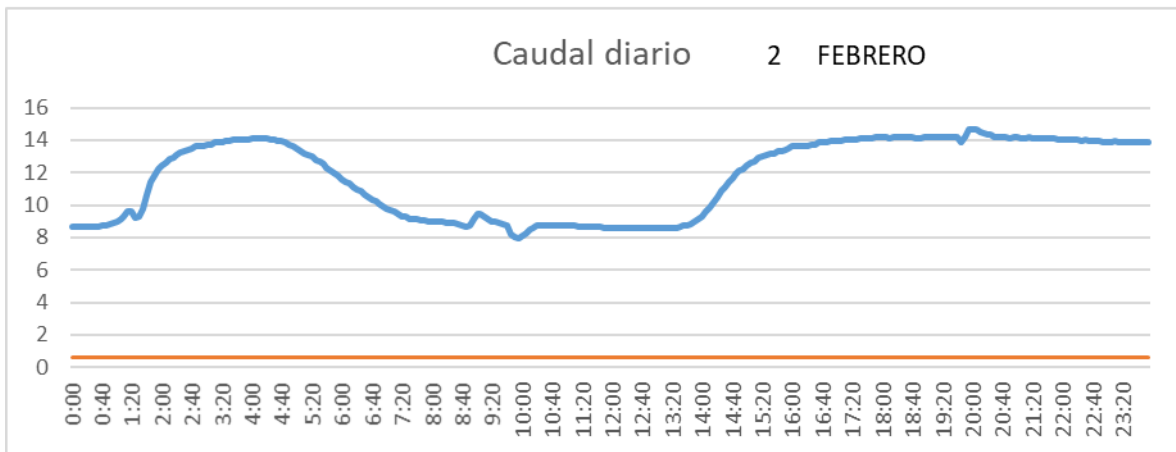
SAN LORENZO PARRILLA



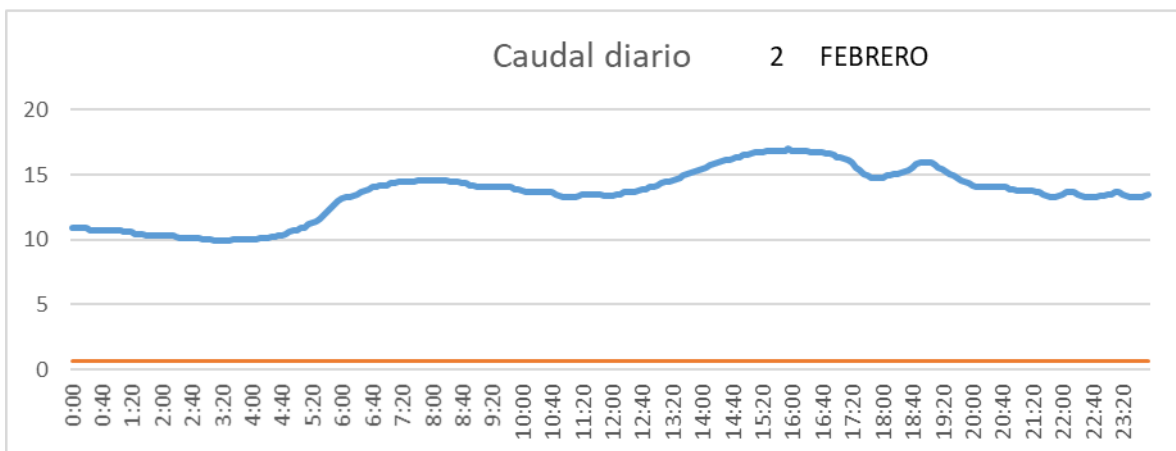
SALIDA TOBA



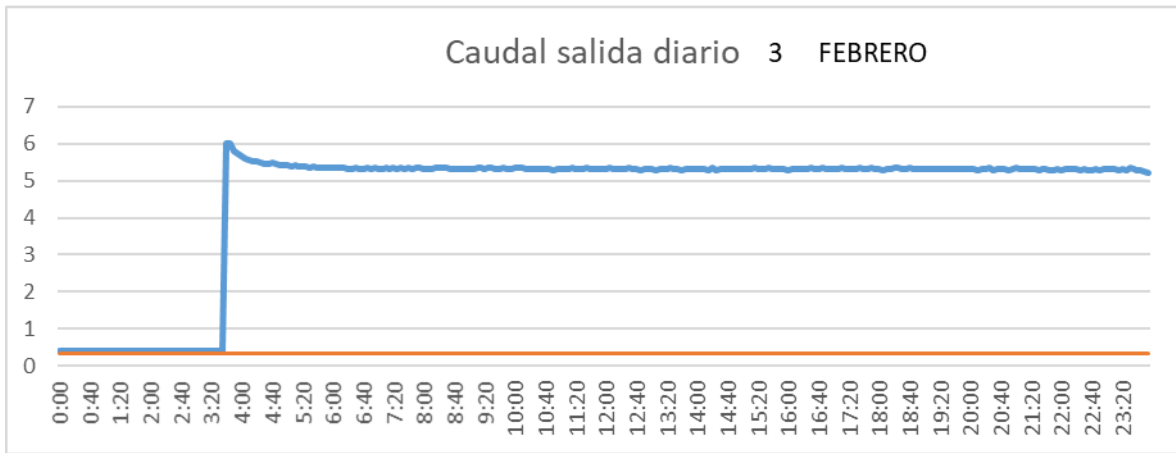
CUENCA



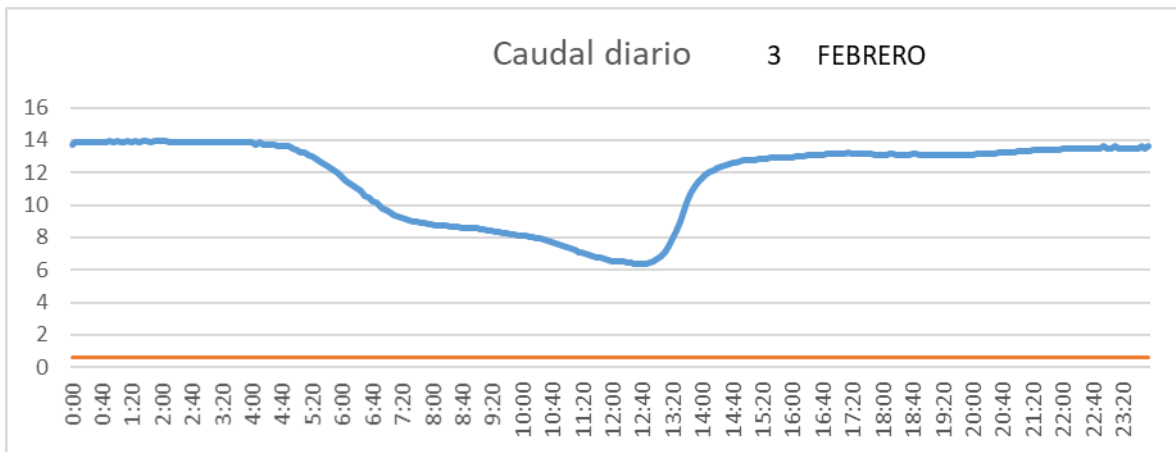
SAN LORENZO PARRILLA



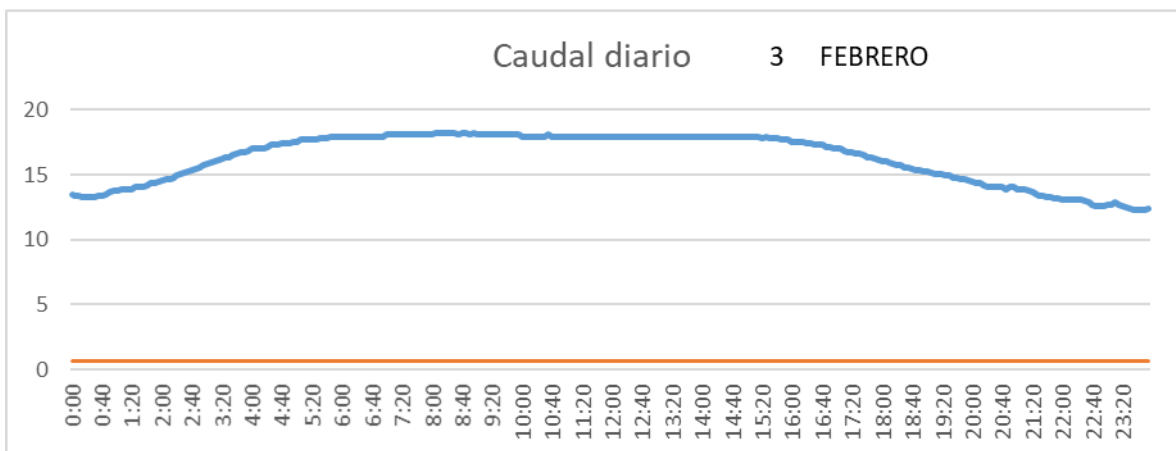
SALIDA TOBA



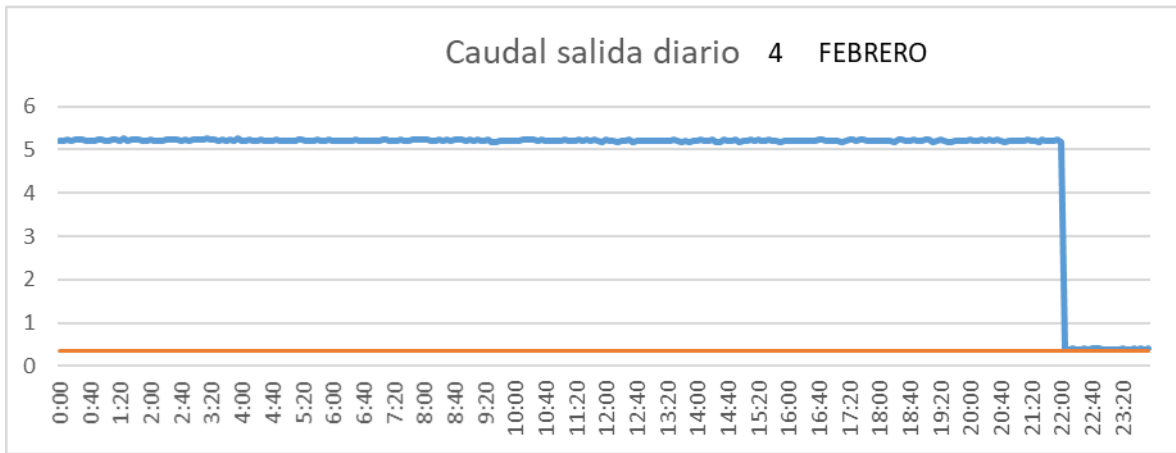
CUENCA



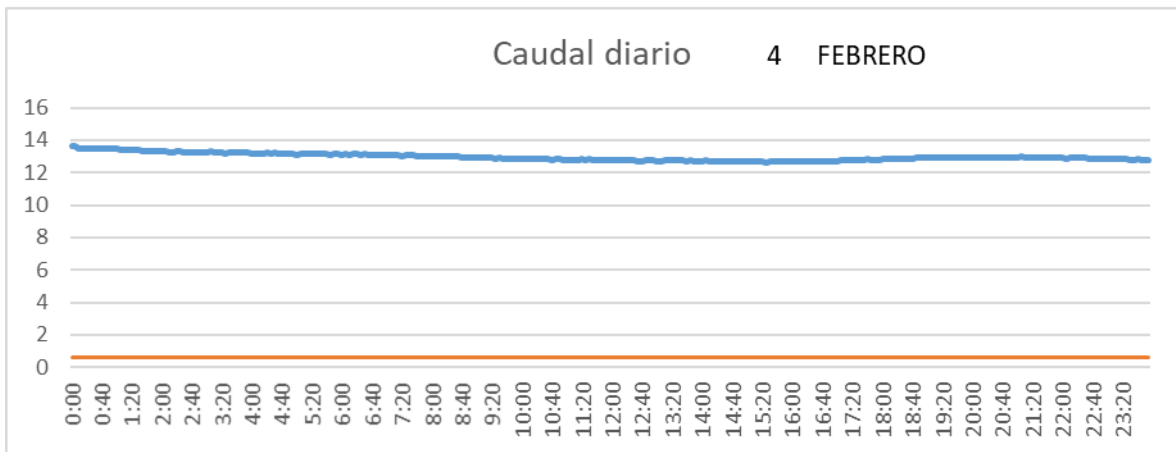
SAN LORENZO PARRILLA



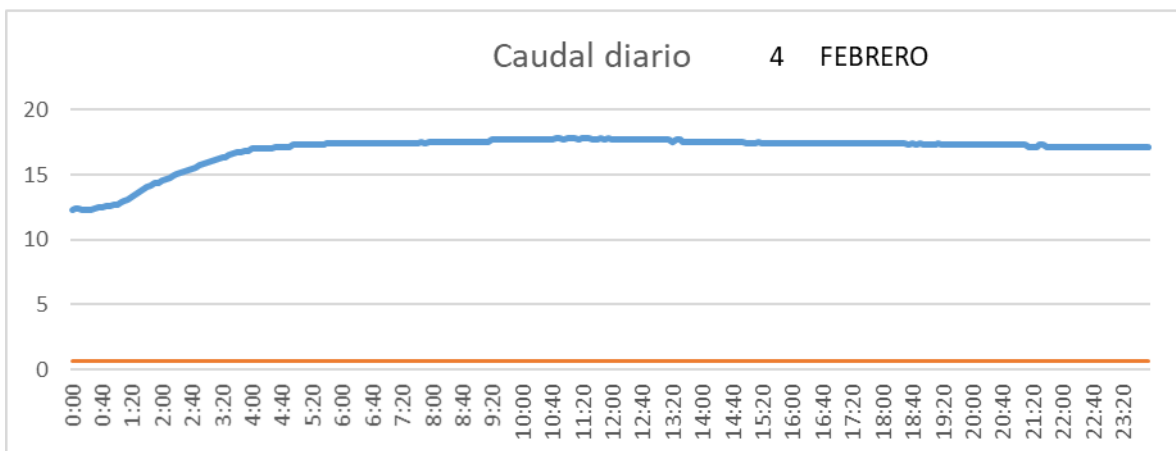
SALIDA TOBA



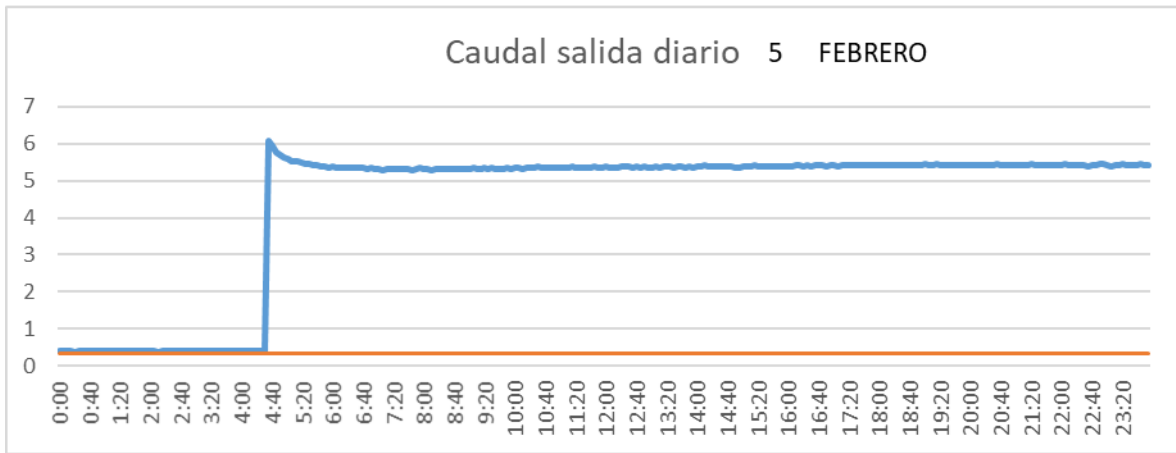
CUENCA



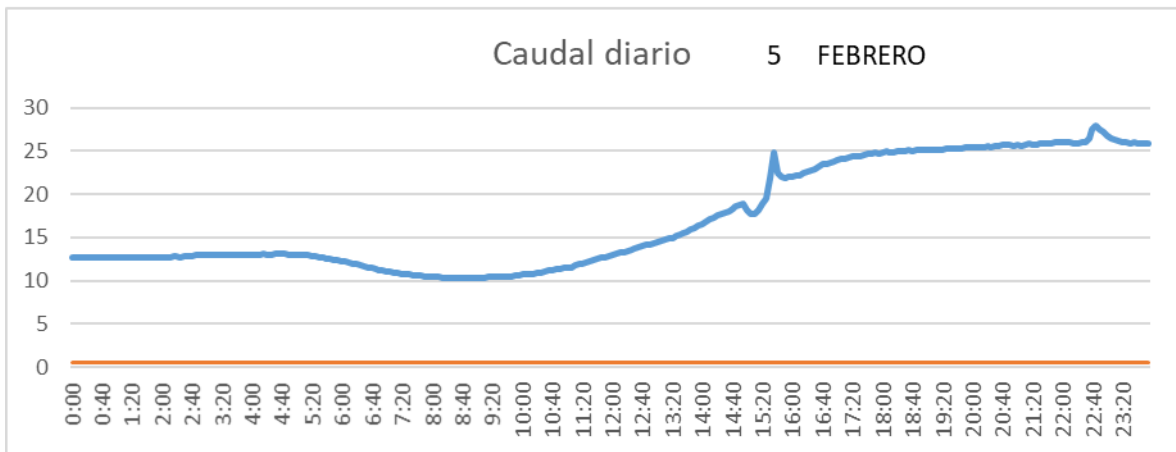
SAN LORENZO PARRILLA



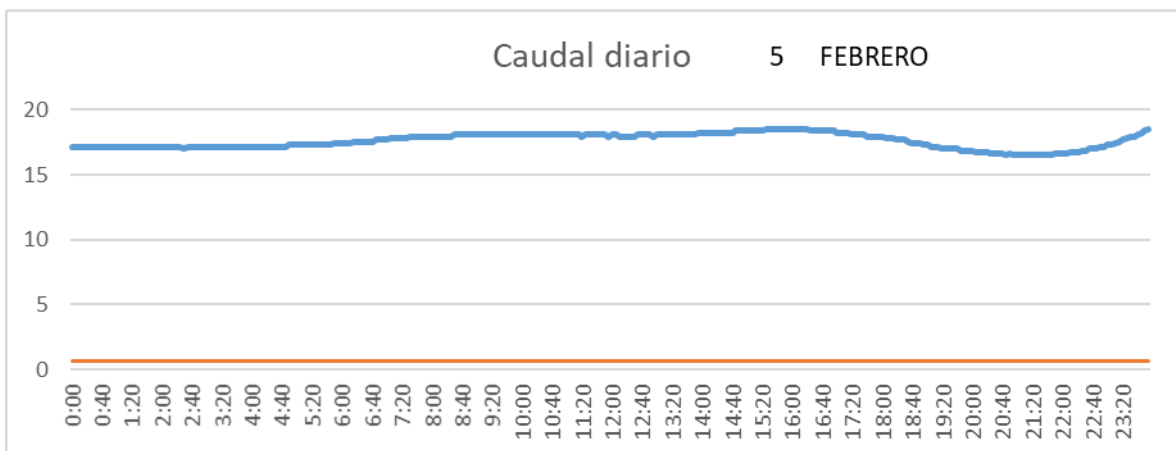
SALIDA TOBA



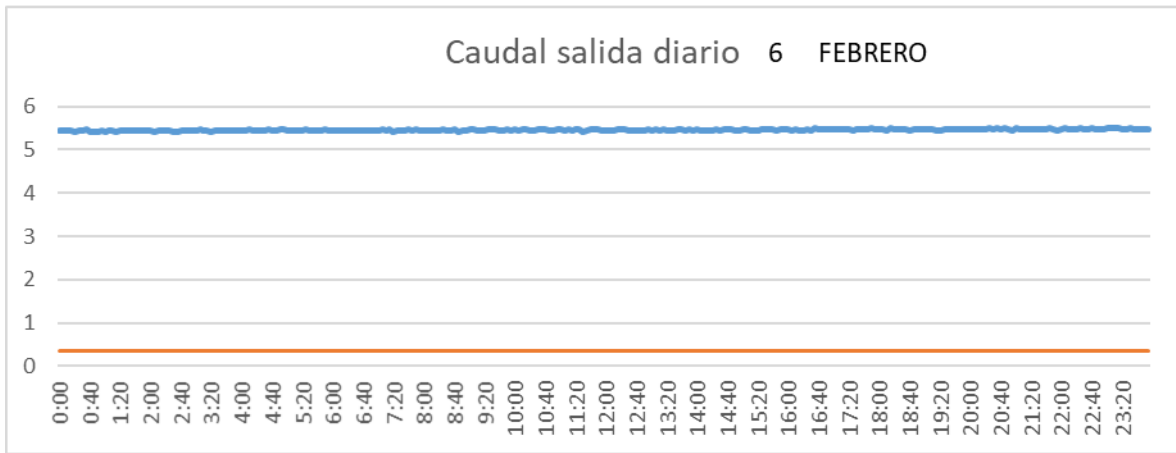
CUENCA



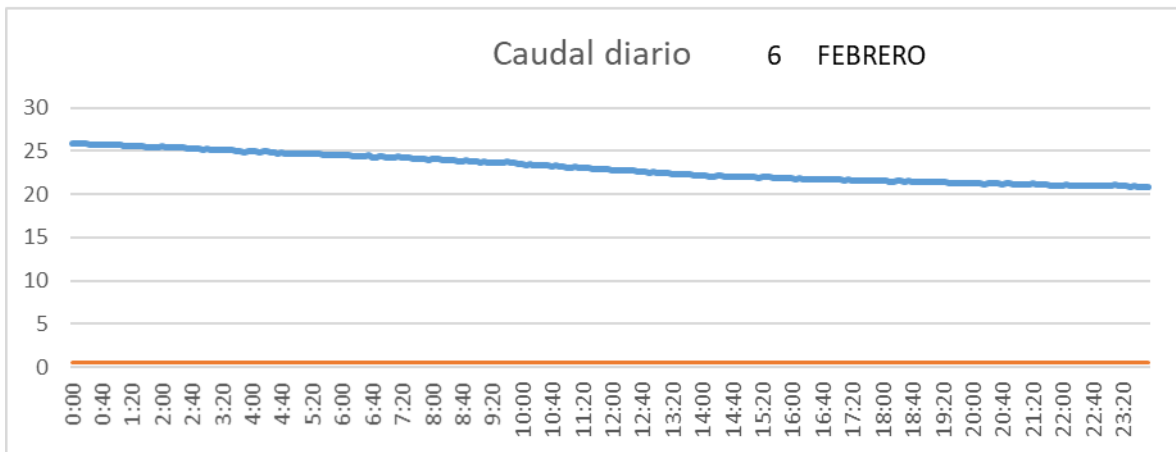
SAN LORENZO PARRILLA



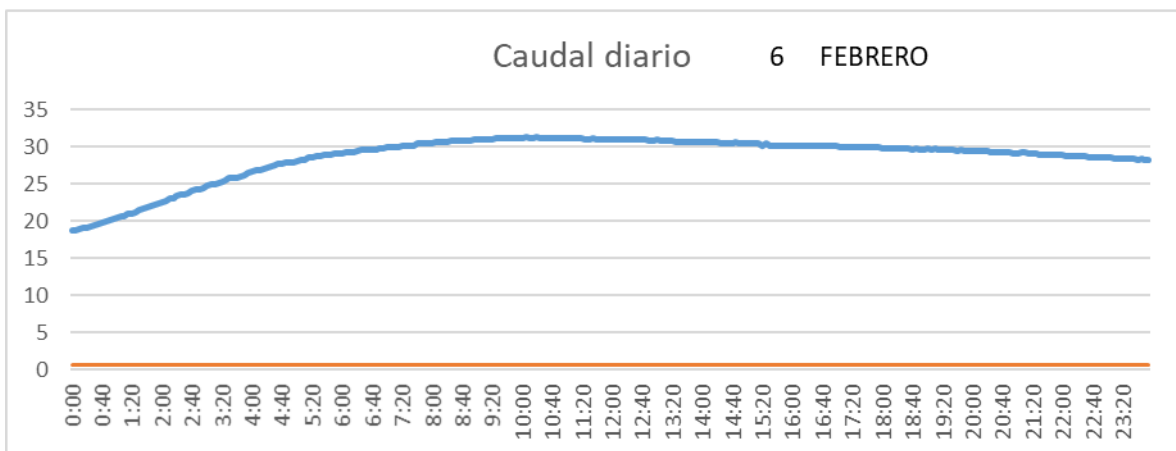
SALIDA TOBA



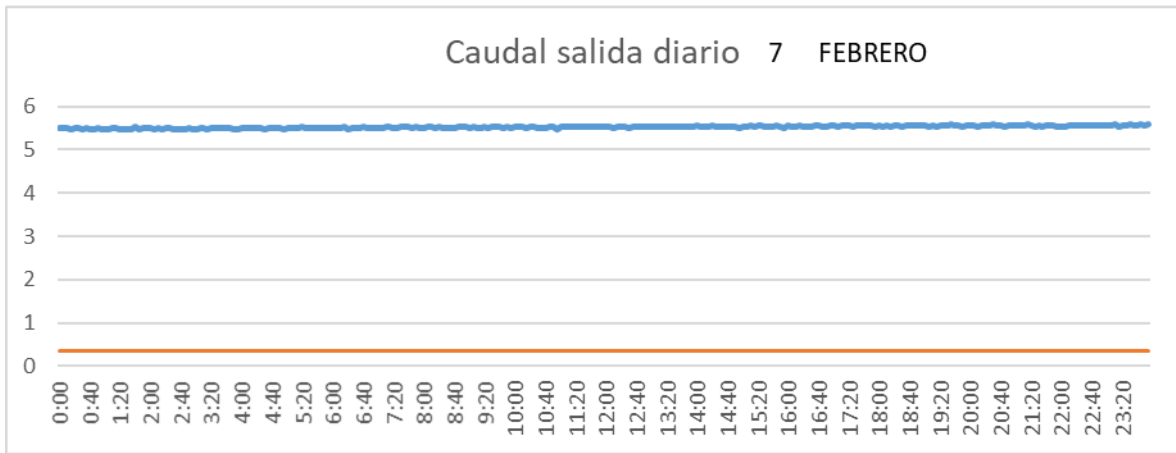
CUENCA



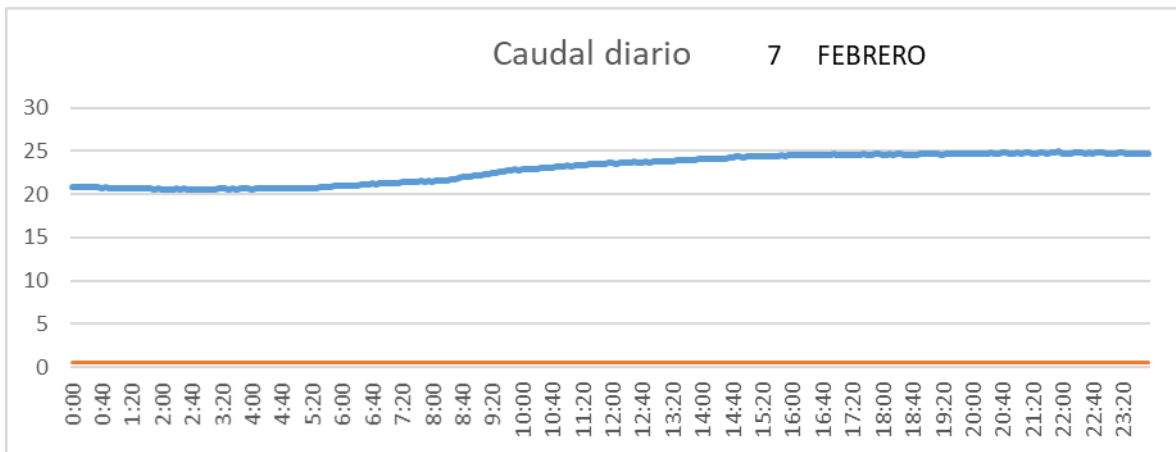
SAN LORENZO PARRILLA



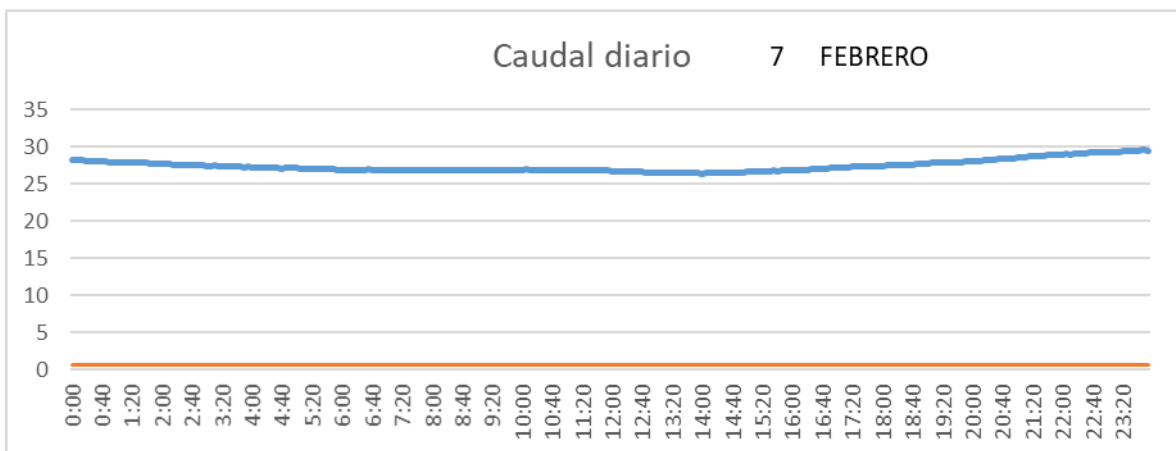
SALIDA TOBA



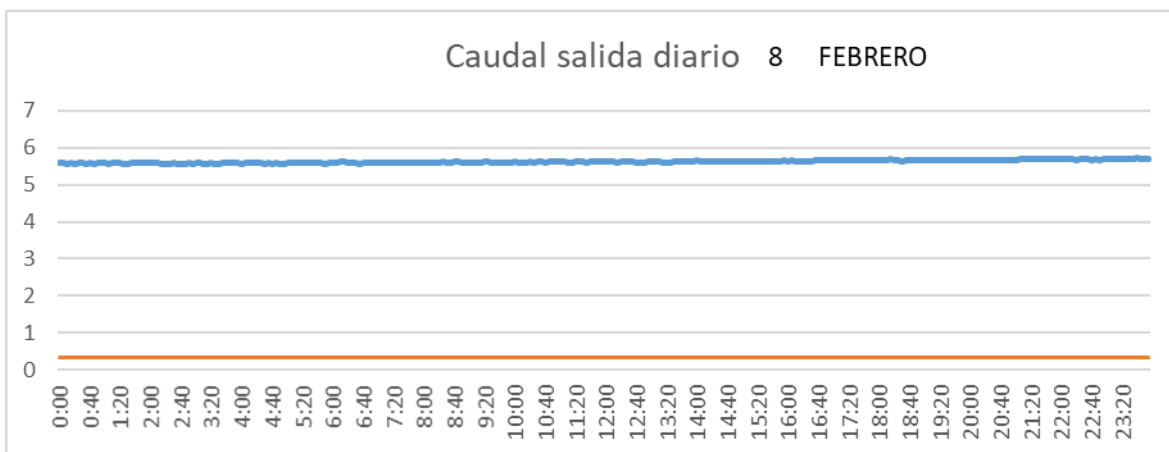
CUENCA



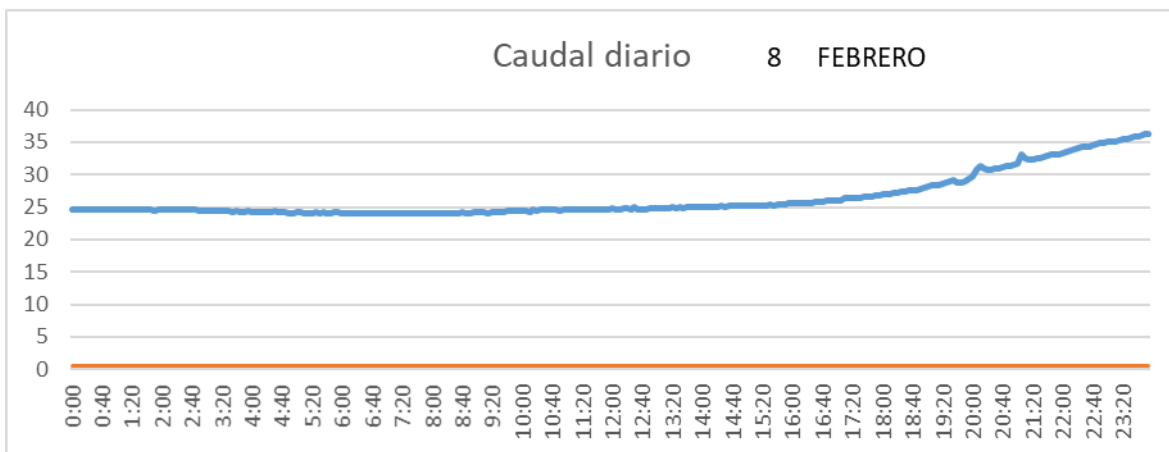
SAN LORENZO PARRILLA



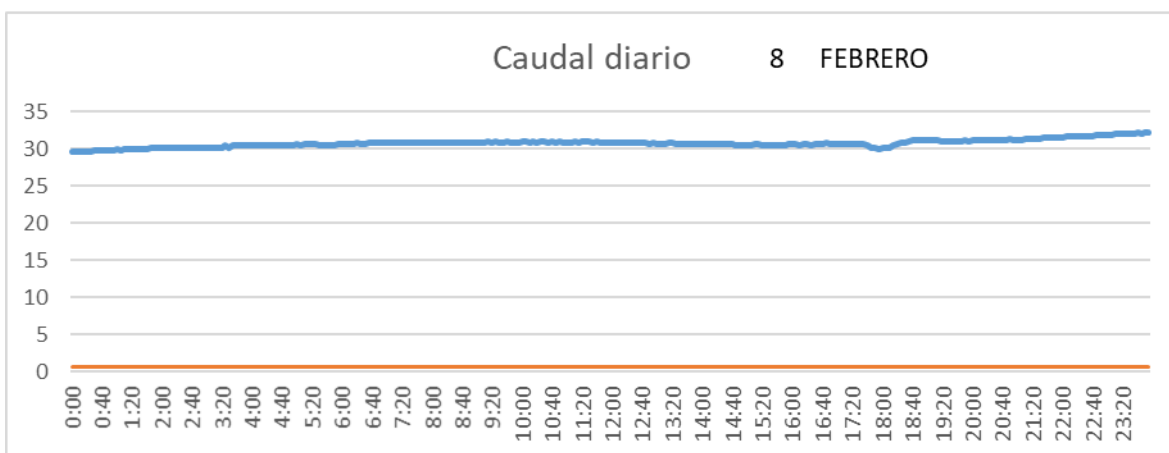
SALIDA TOBA



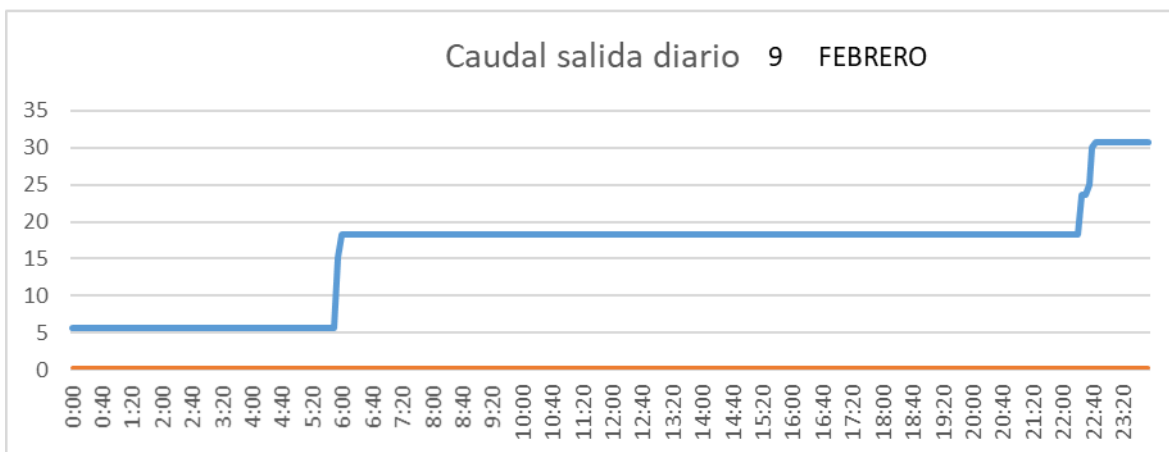
CUENCA



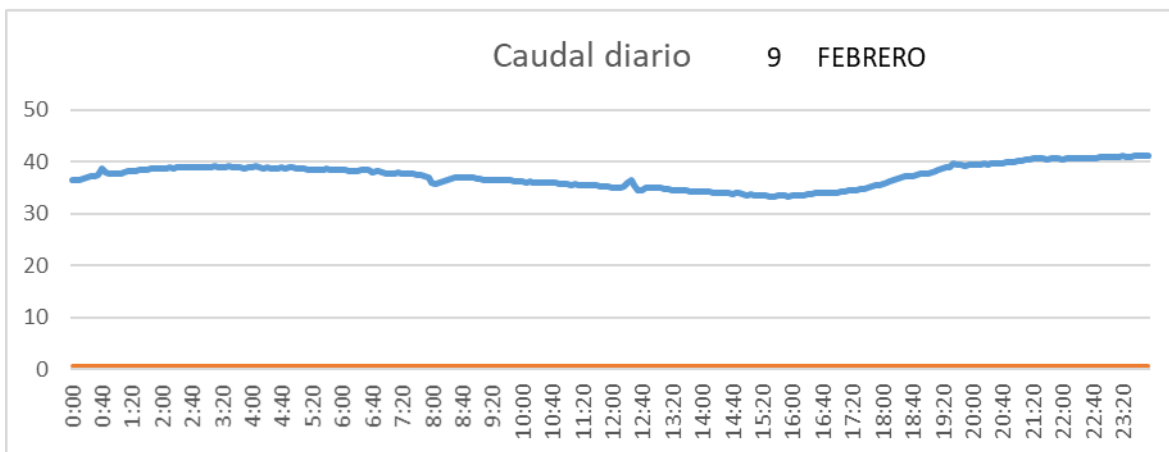
SAN LORENZO PARRILLA



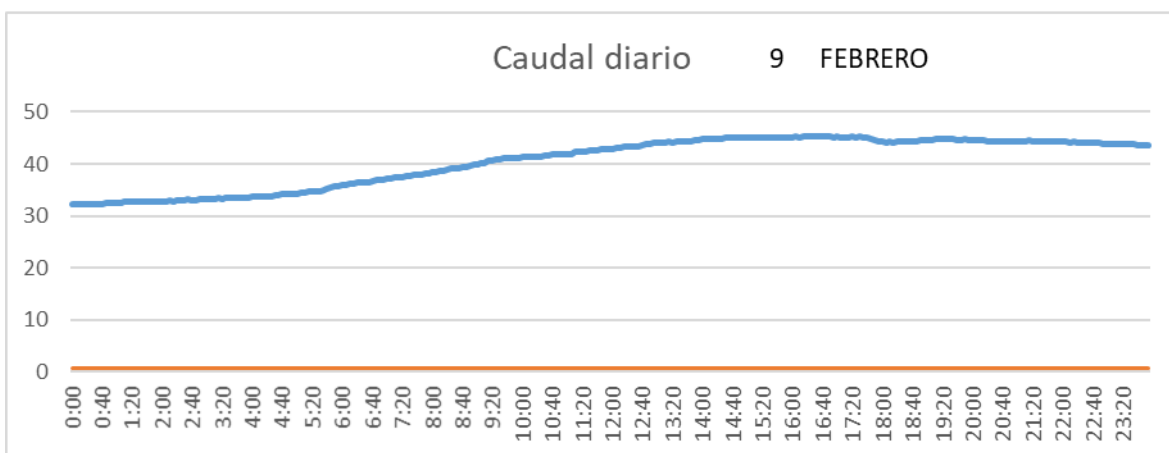
SALIDA TOBA



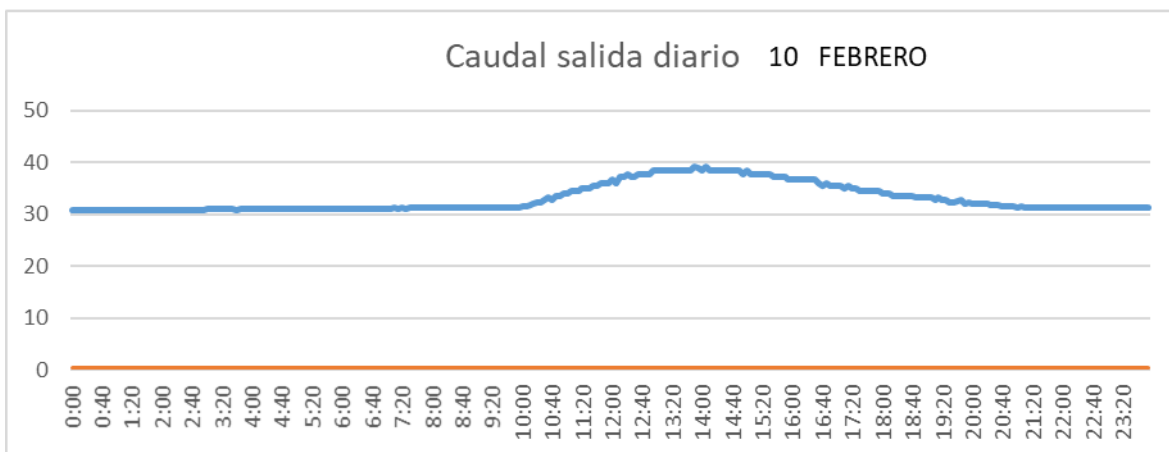
CUENCA



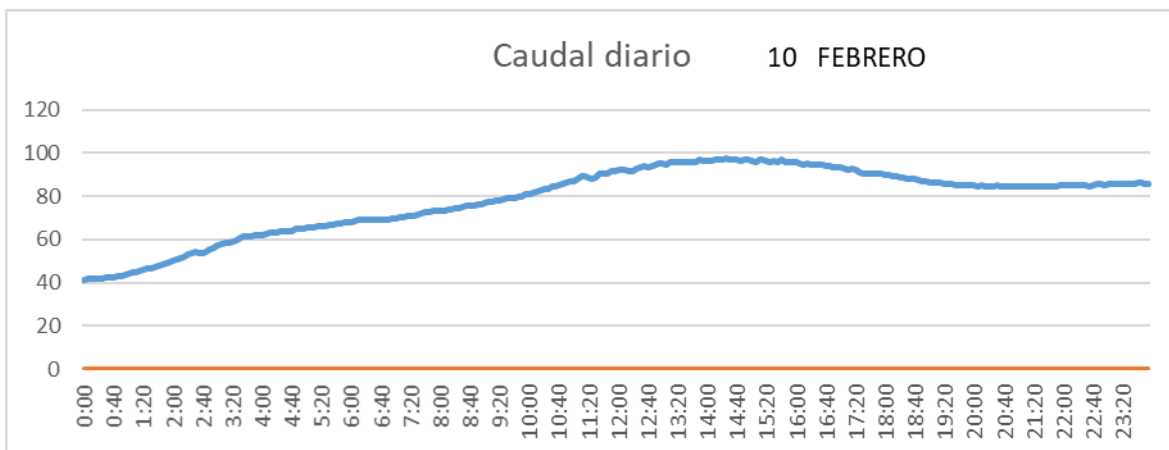
SAN LORENZO PARRILLA



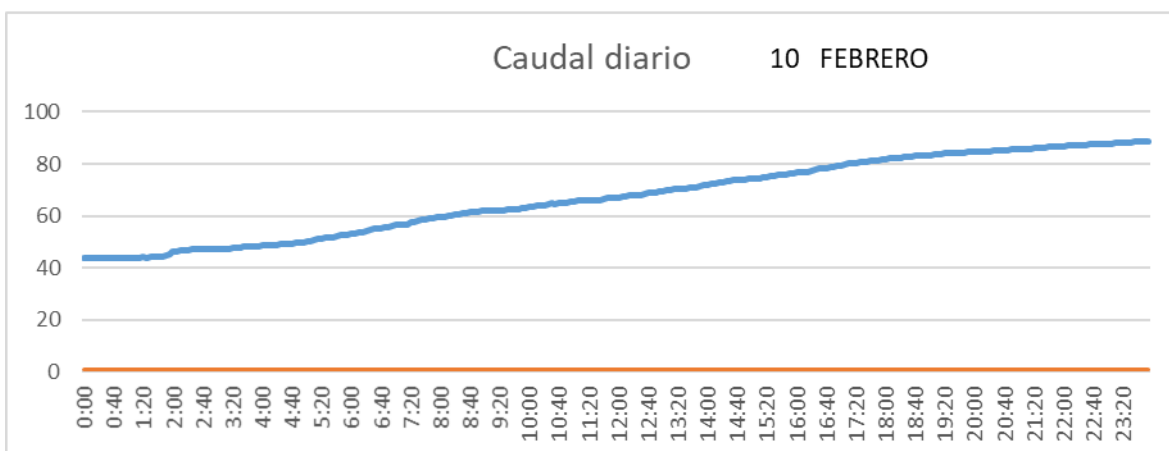
SALIDA TOBA



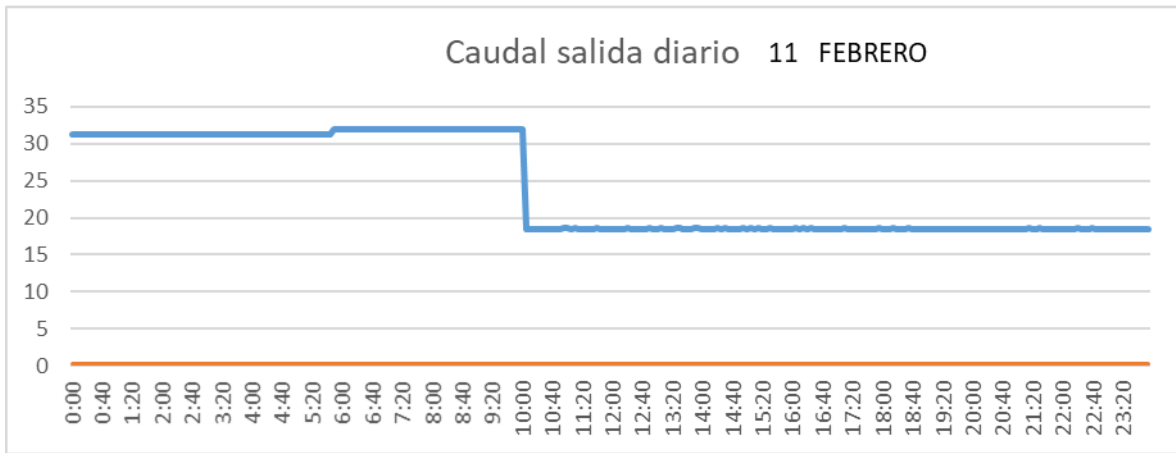
CUENCA



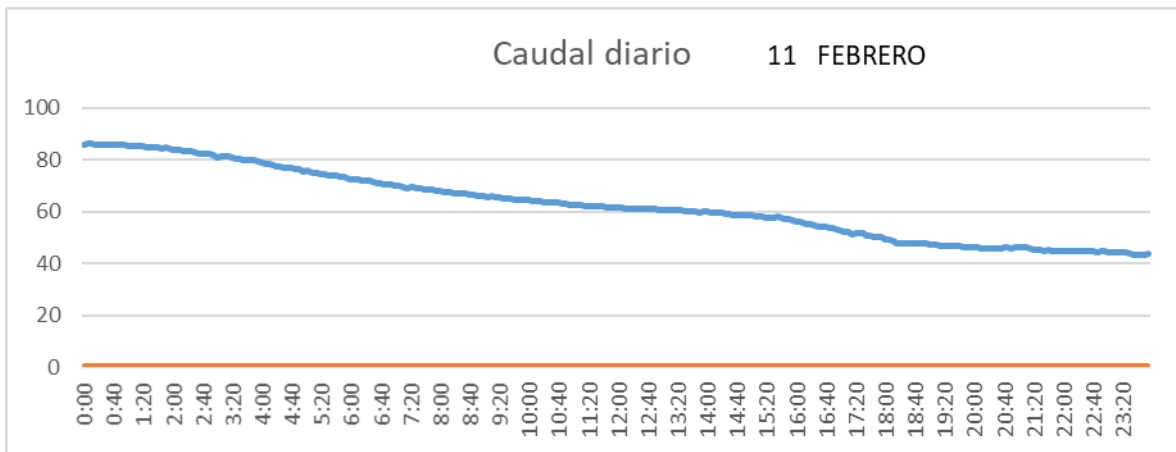
SAN LORENZO PARRILLA



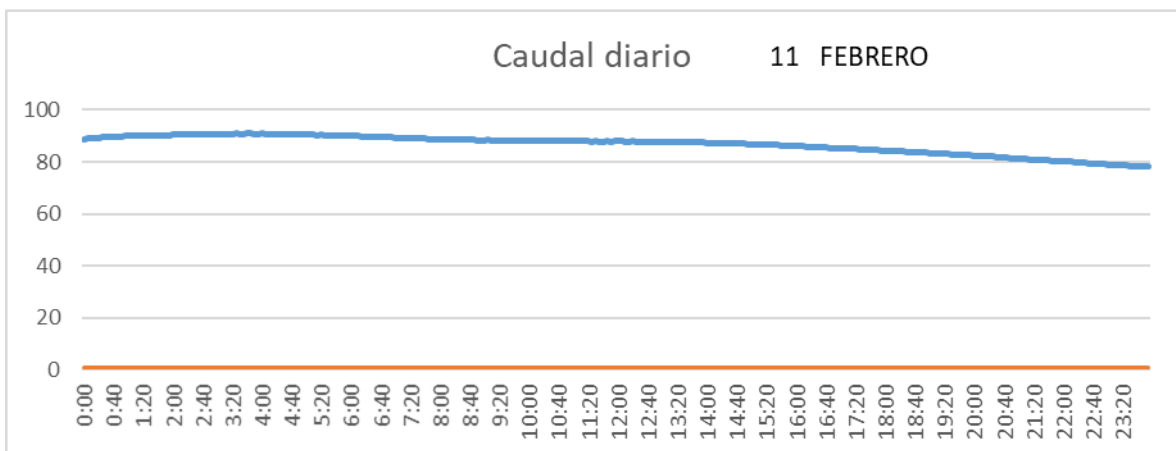
SALIDA TOBA



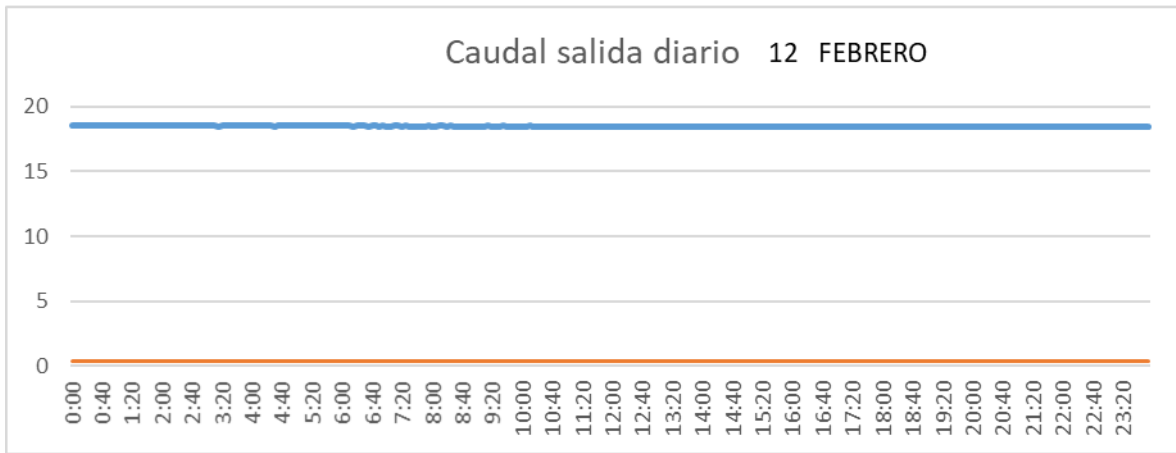
CUENCA



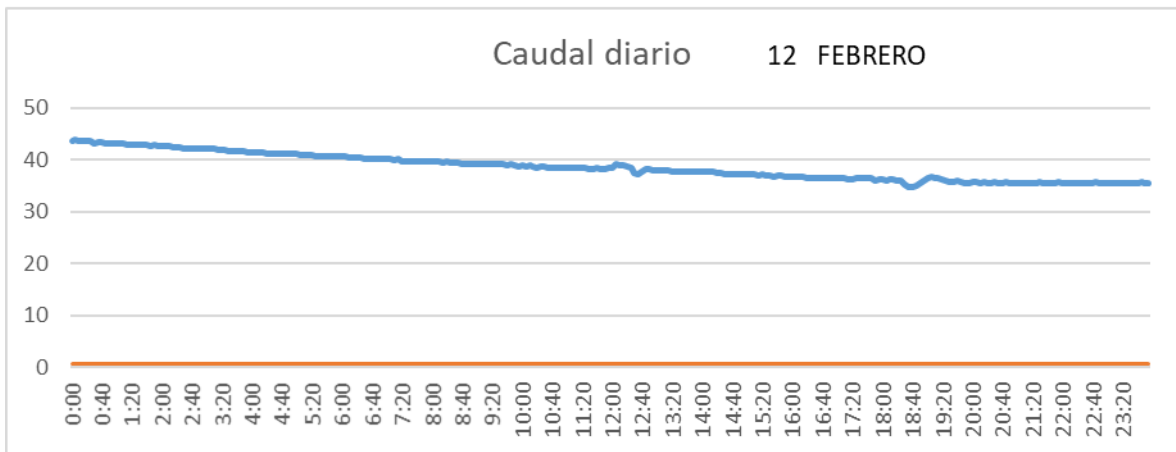
SAN LORENZO PARRILLA



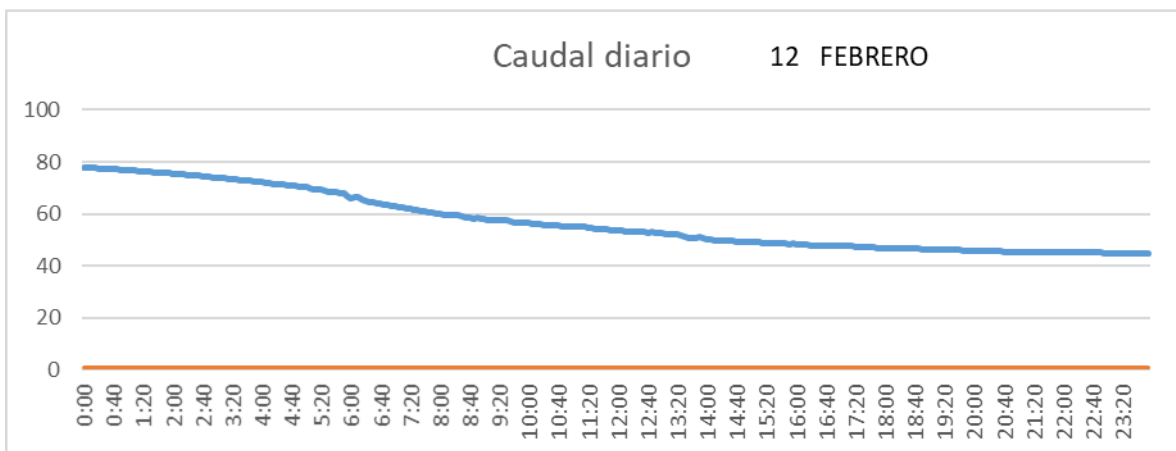
SALIDA TOBA



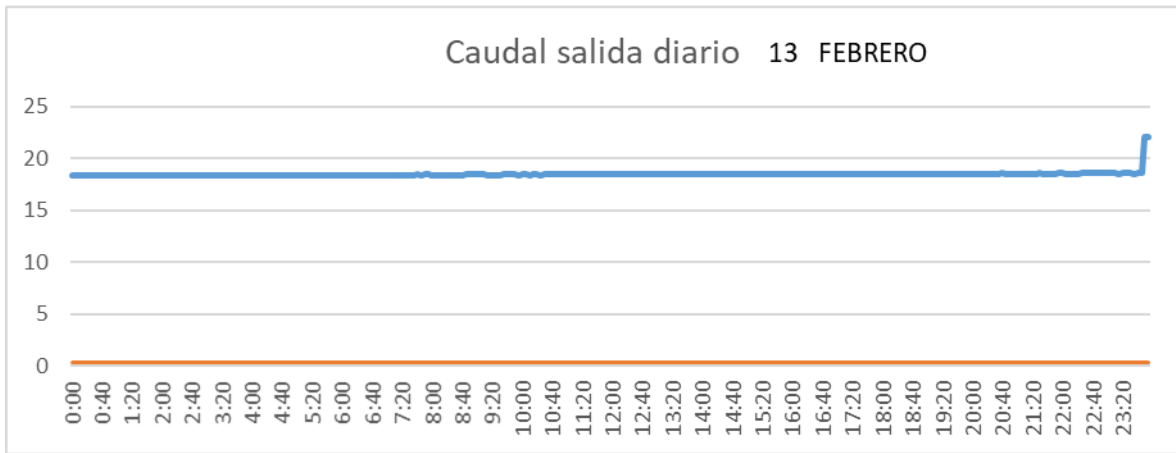
CUENCA



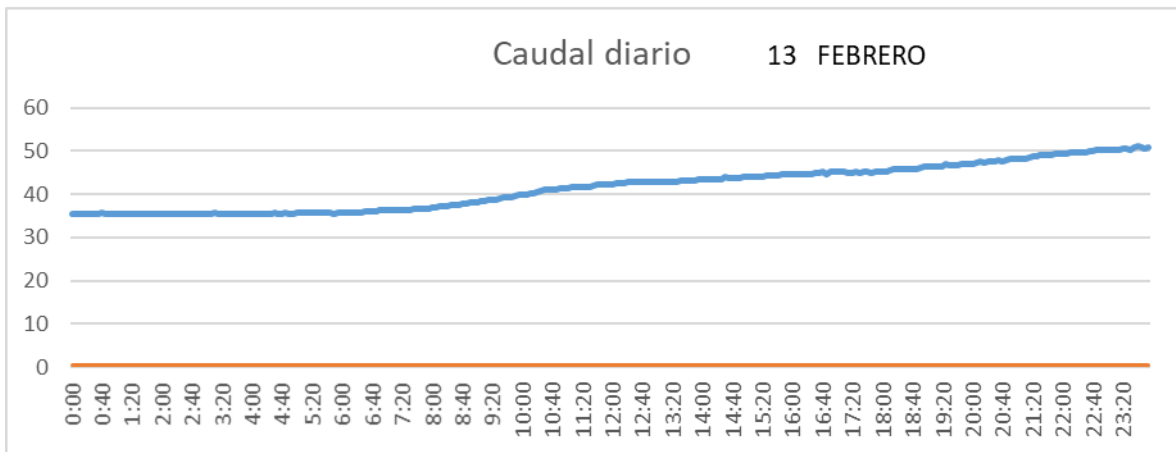
SAN LORENZO PARRILLA



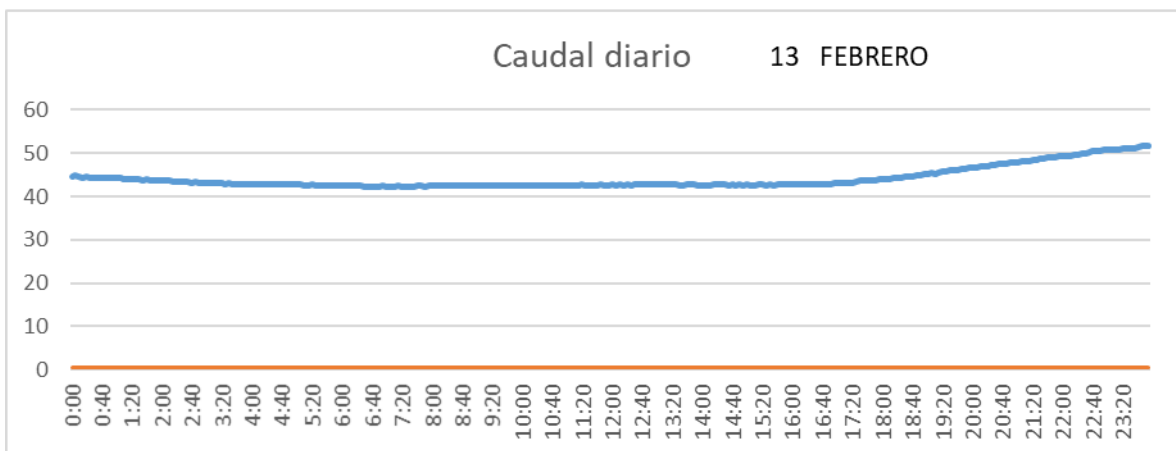
SALIDA TOBA



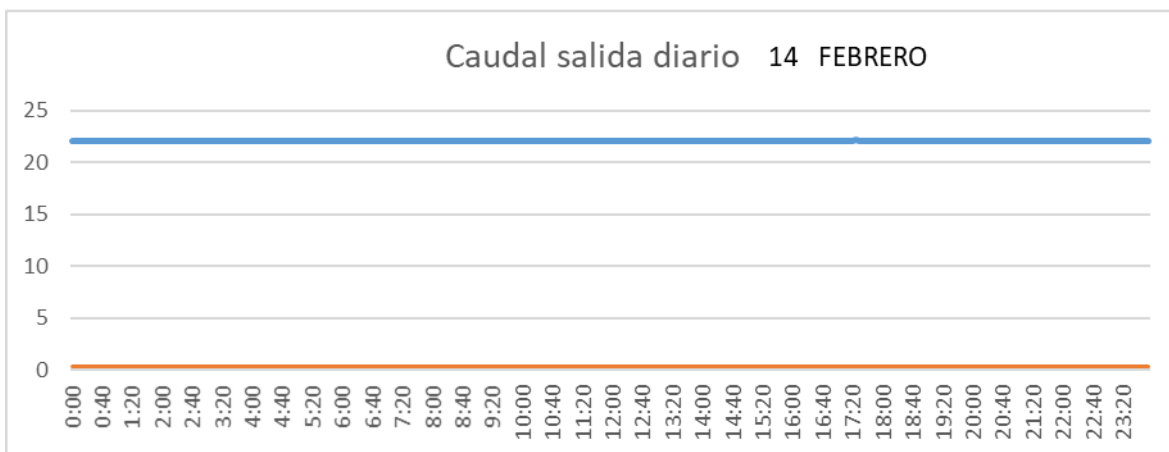
CUENCA



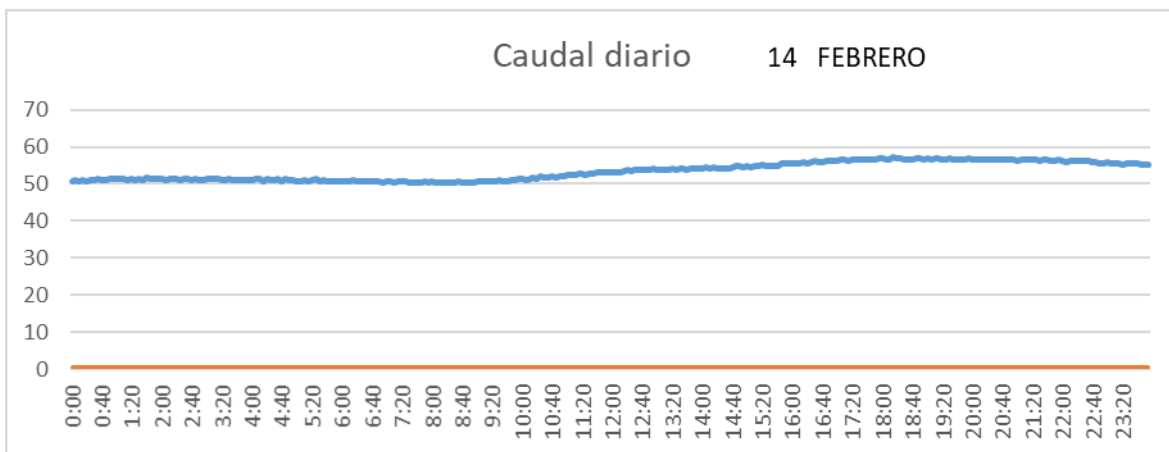
SAN LORENZO PARRILLA



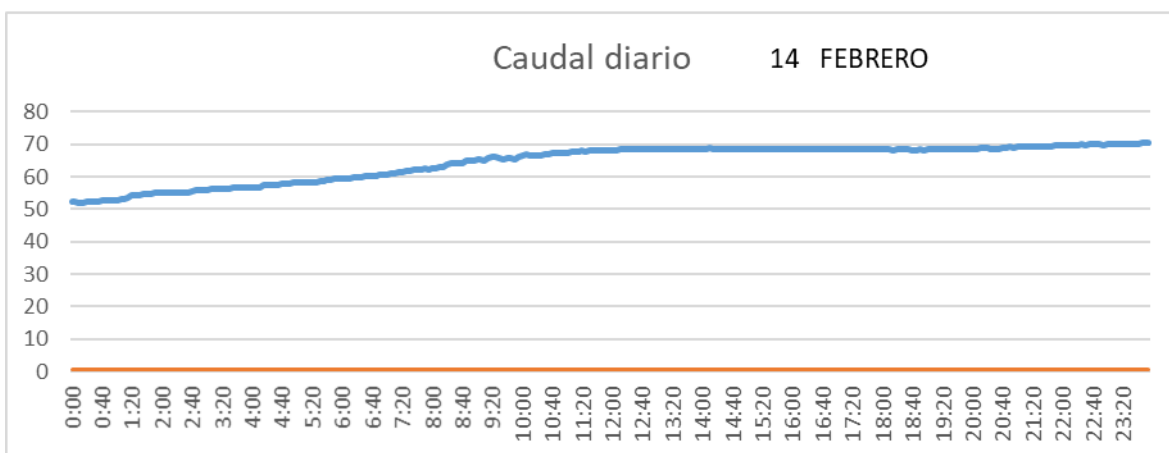
SALIDA TOBA



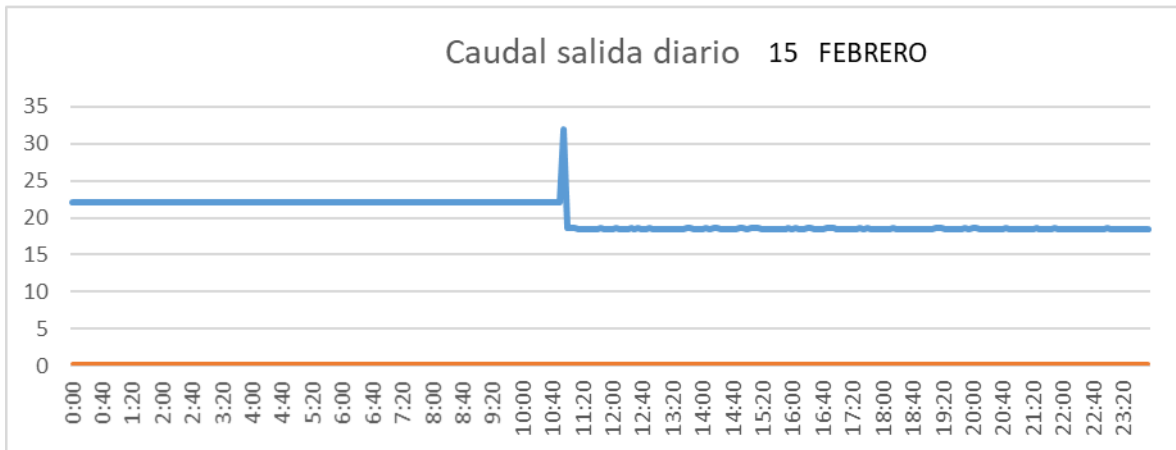
CUENCA



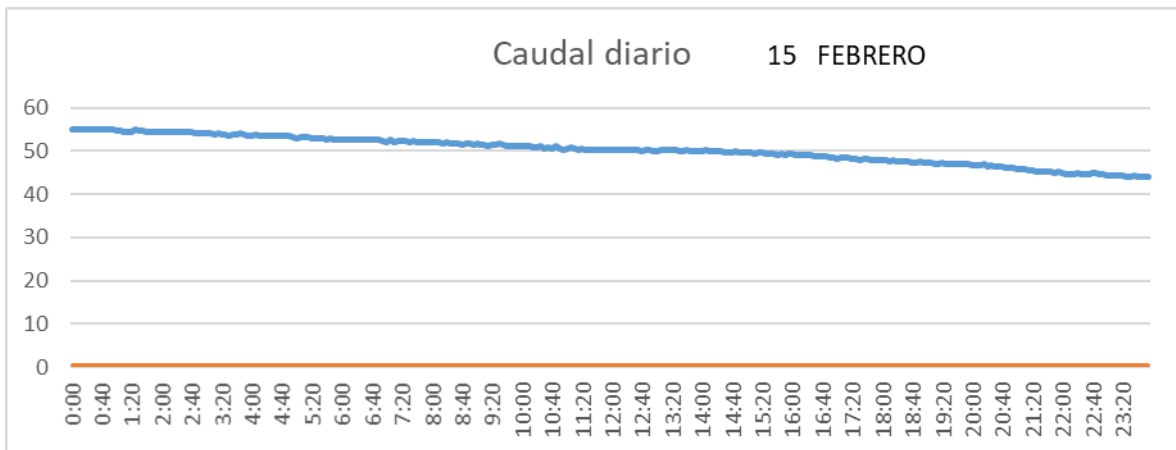
SAN LORENZO PARRILLA



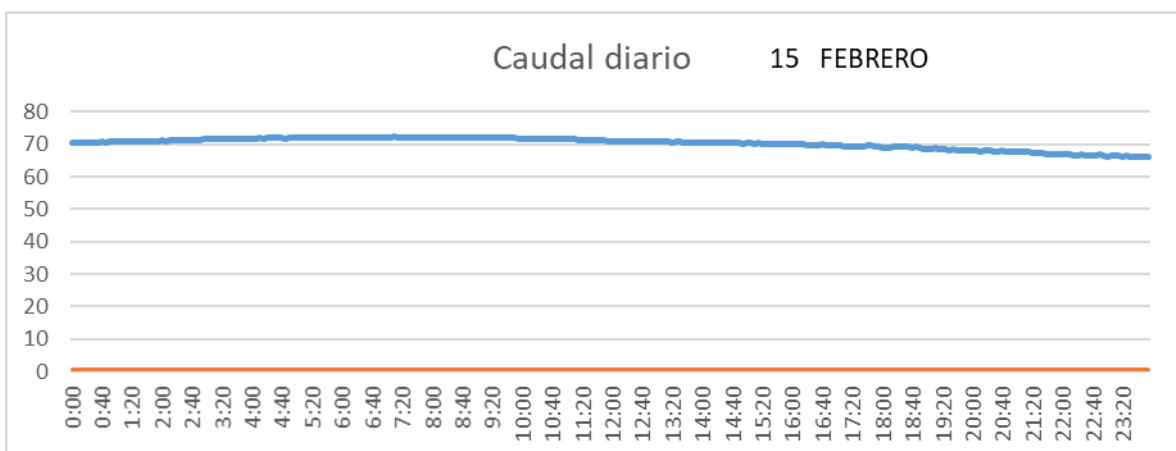
SALIDA TOBA



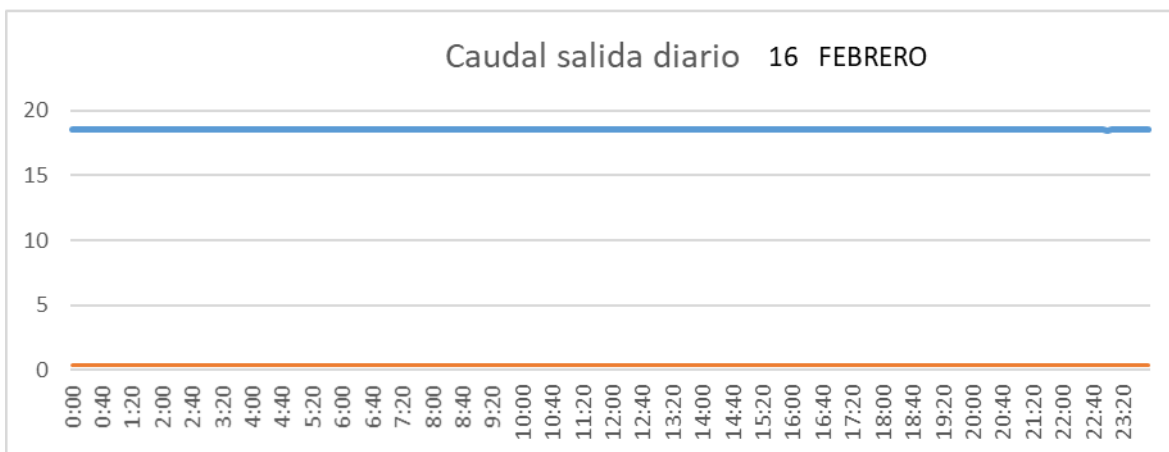
CUENCA



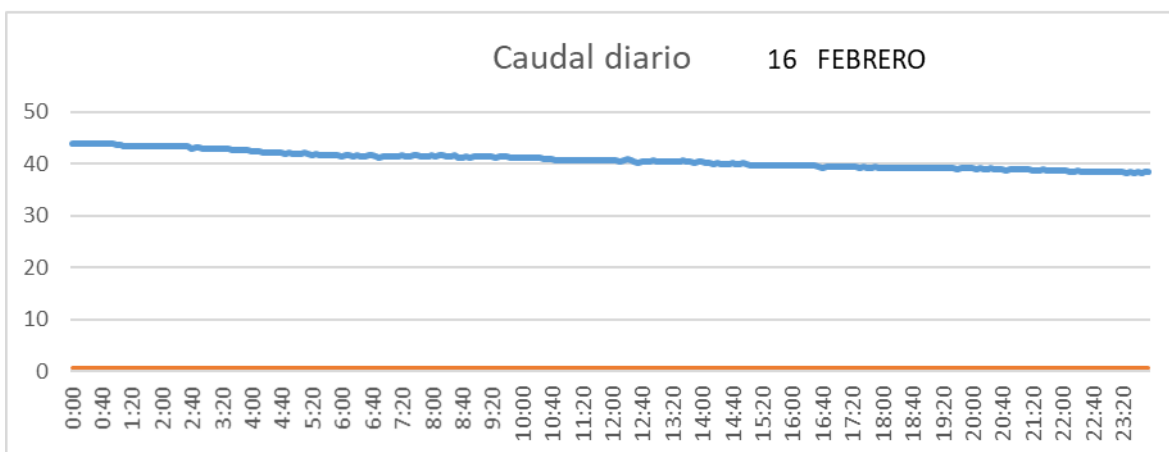
SAN LORENZO PARRILLA



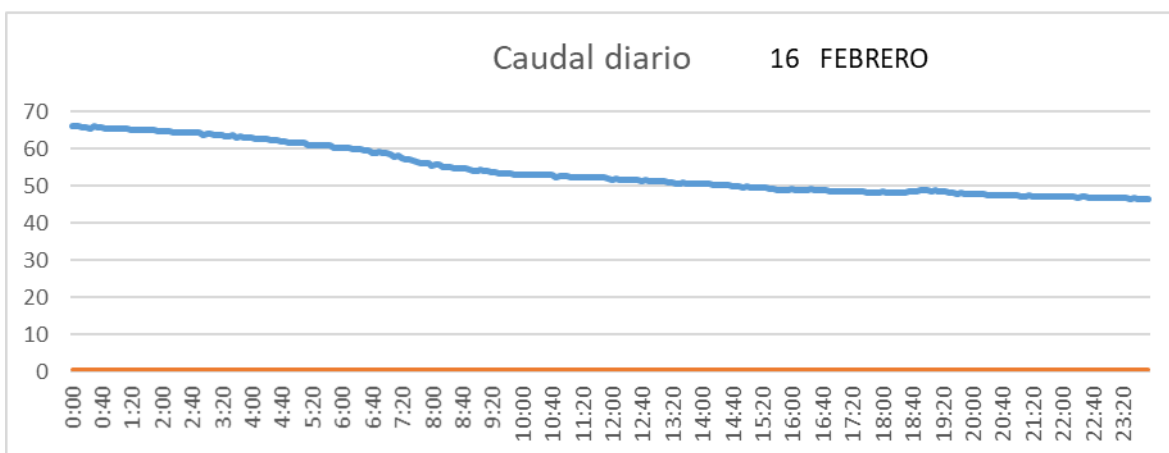
SALIDA TOBA



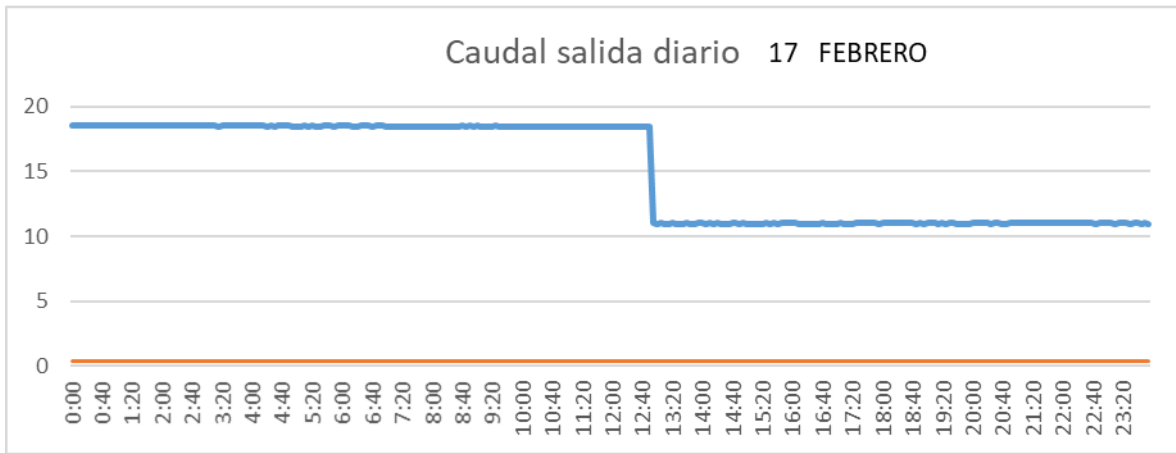
CUENCA



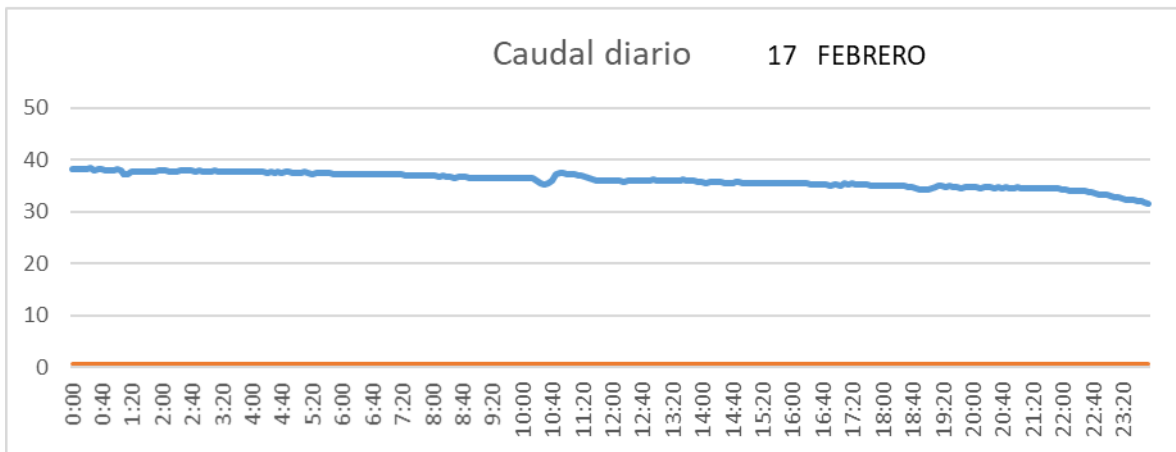
SAN LORENZO PARRILLA



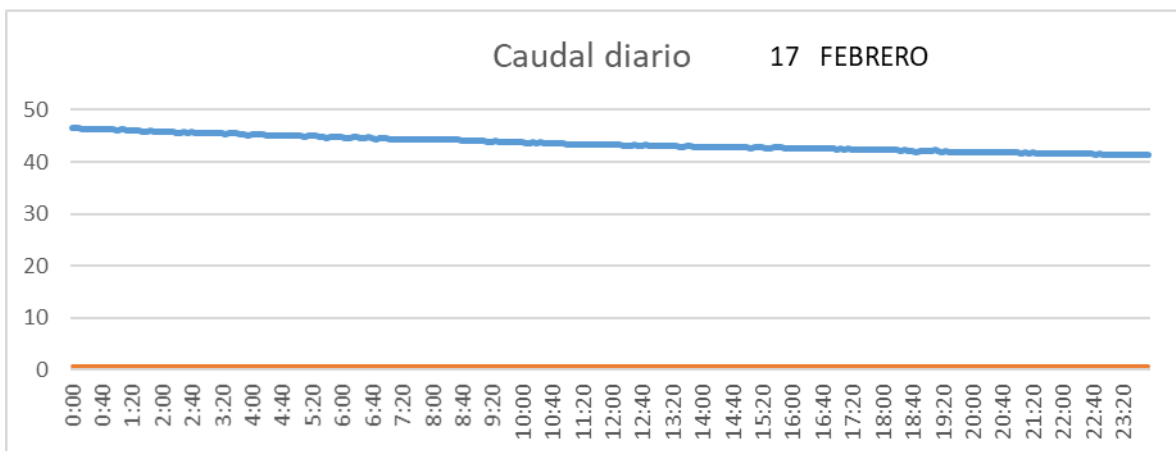
SALIDA TOBA



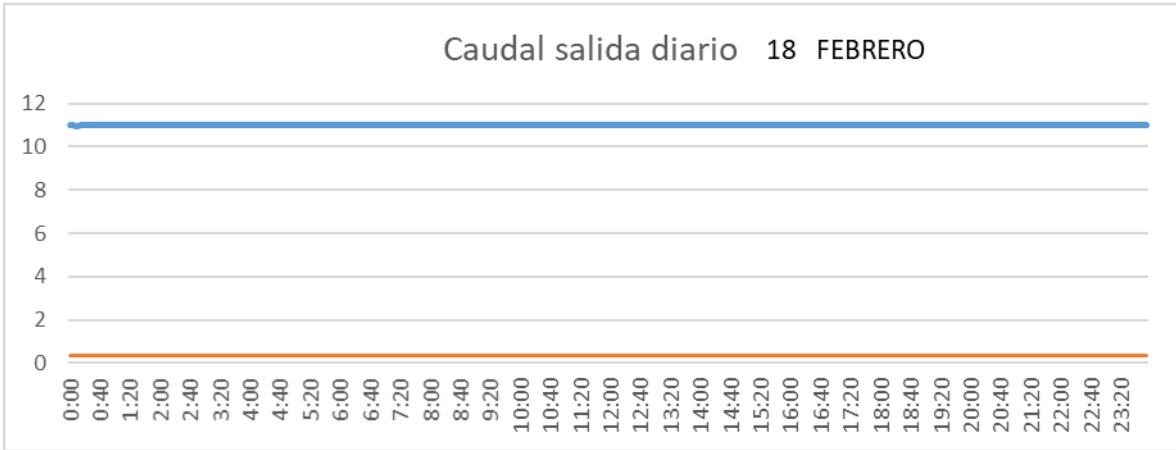
CUENCA



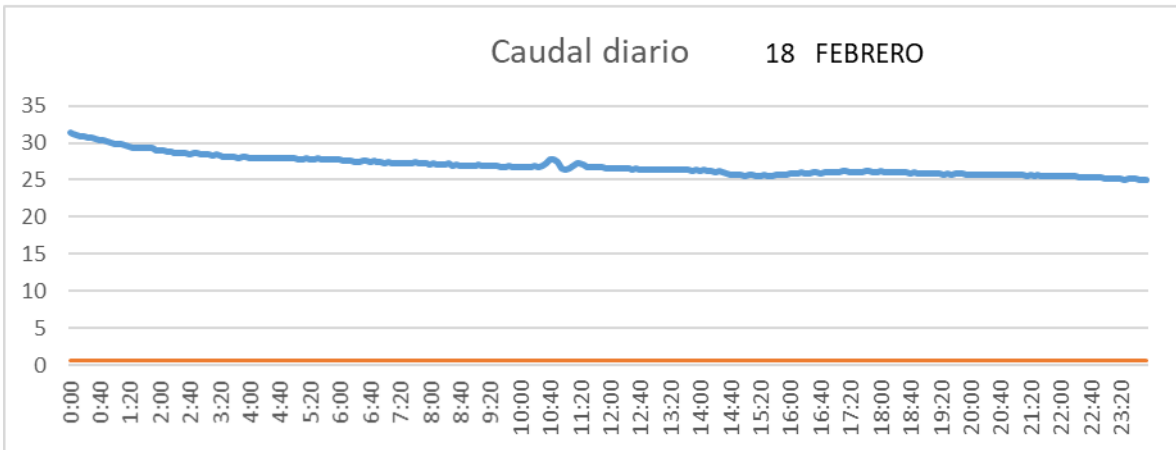
SAN LORENZO PARRILLA



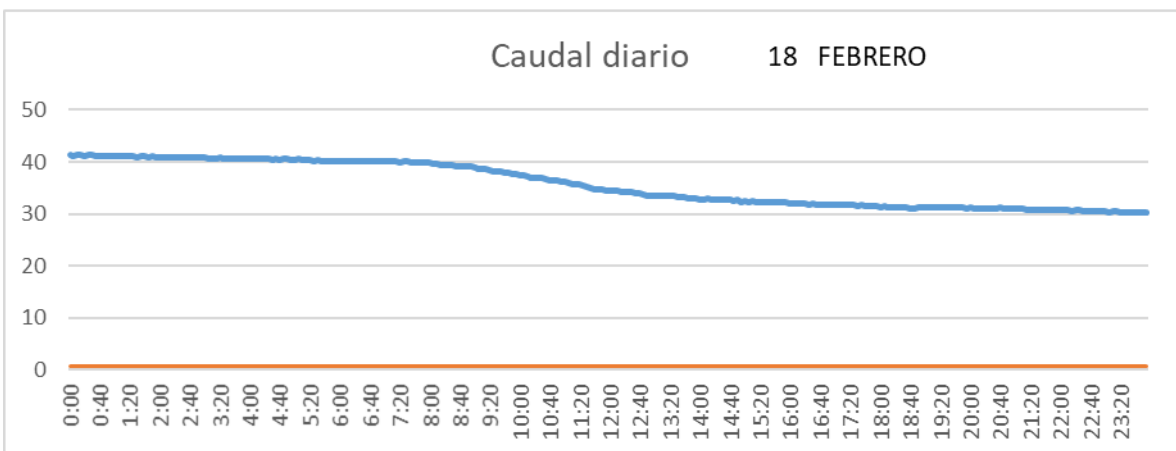
SALIDA TOBA



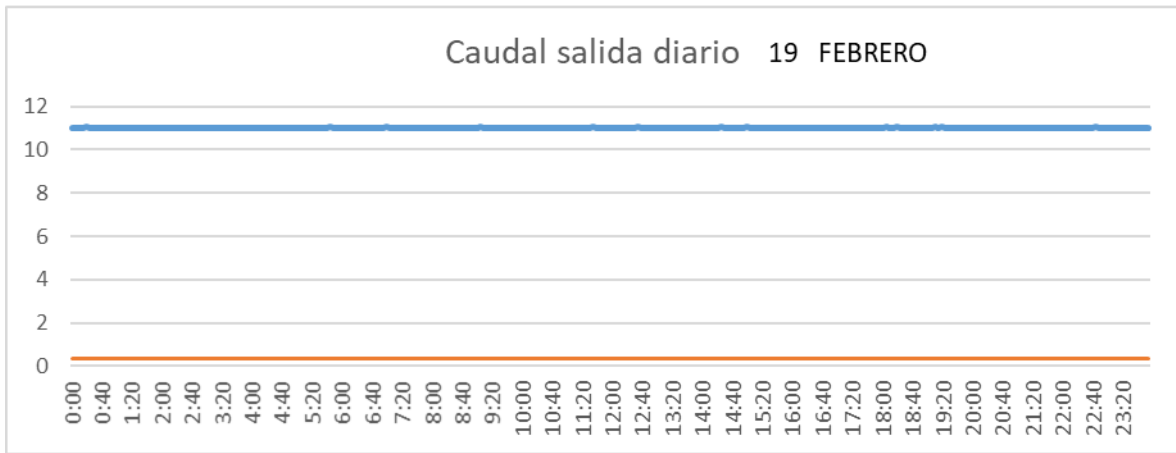
CUENCA



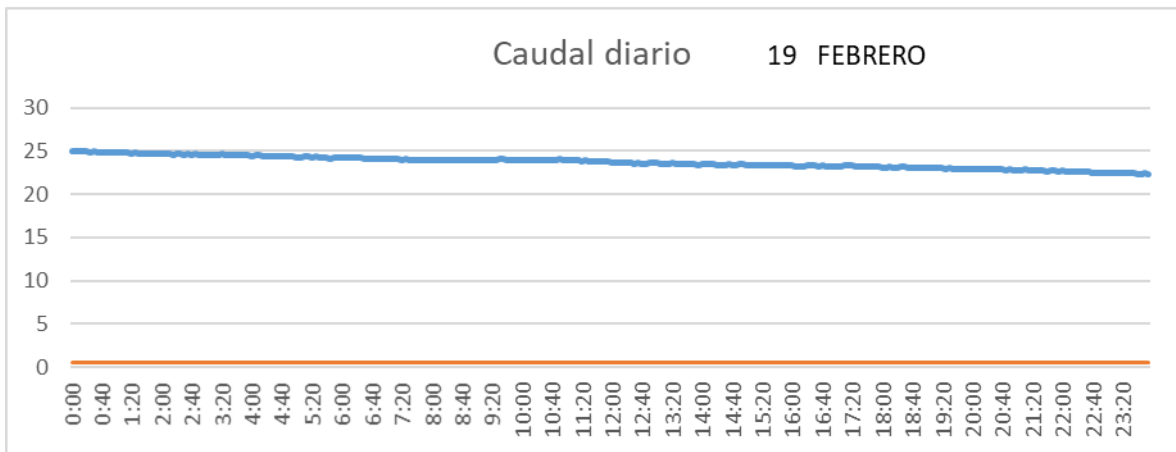
SAN LORENZO PARRILLA



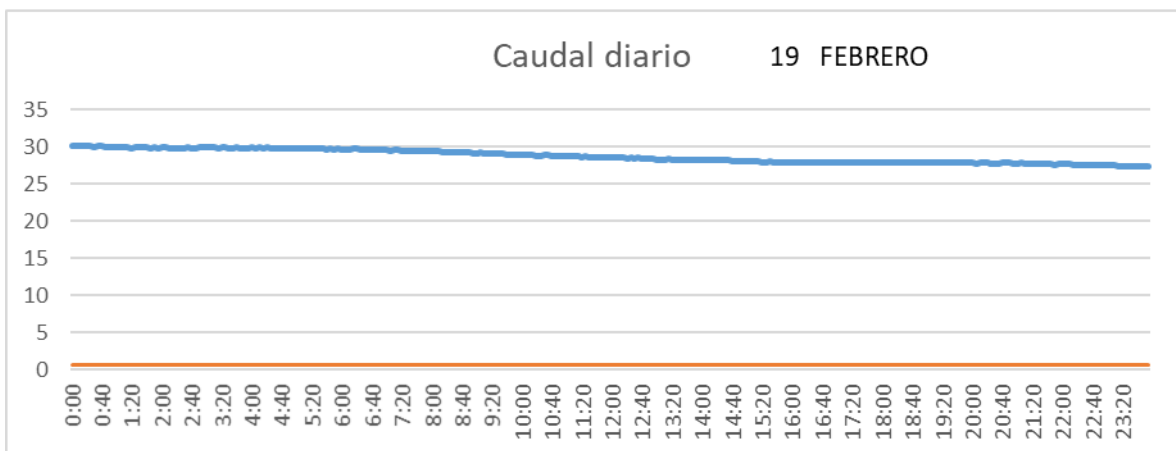
SALIDA TOBA



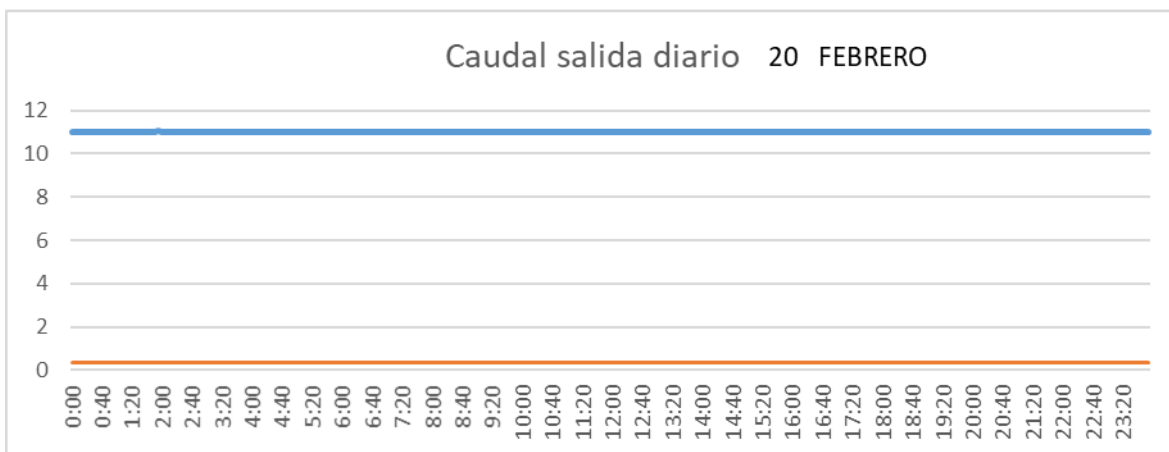
CUENCA



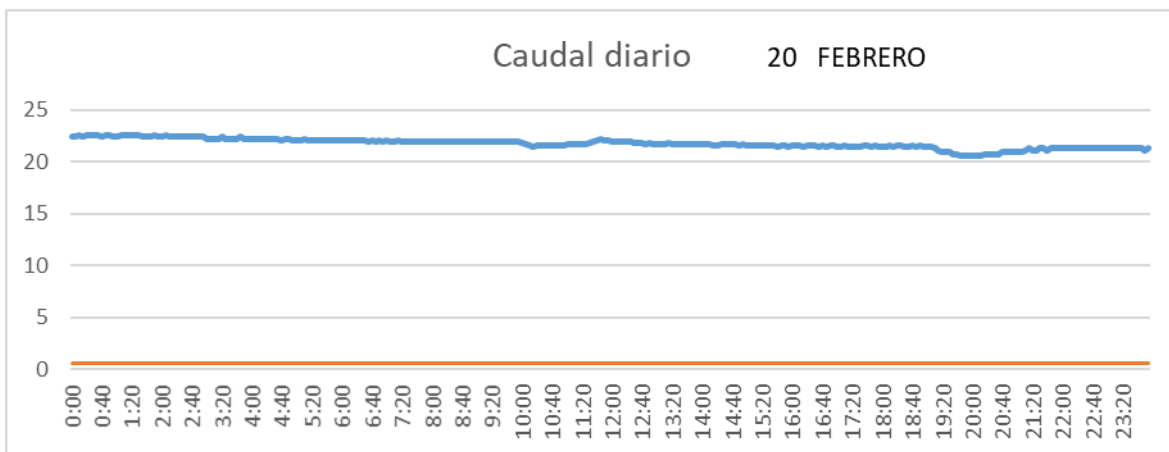
SAN LORENZO PARRILLA



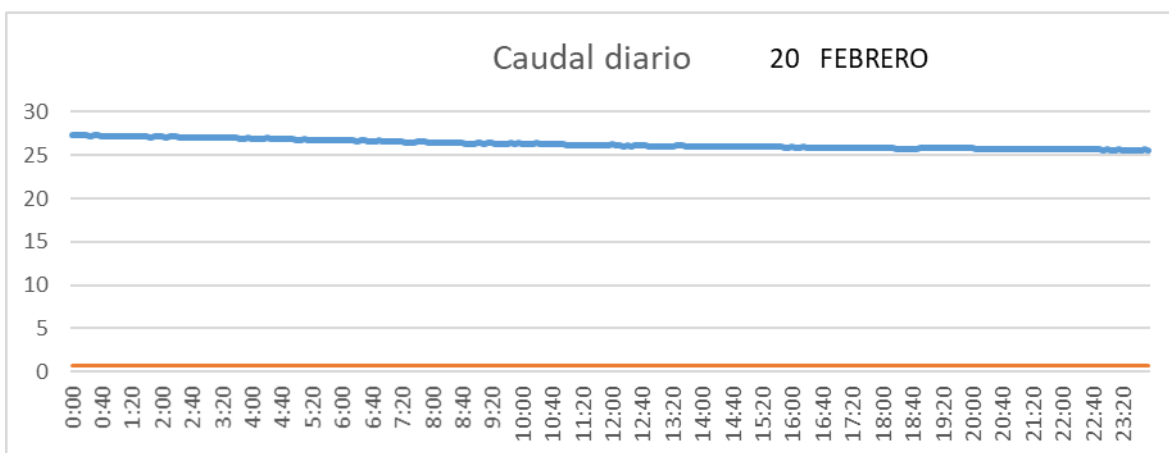
SALIDA TOBA



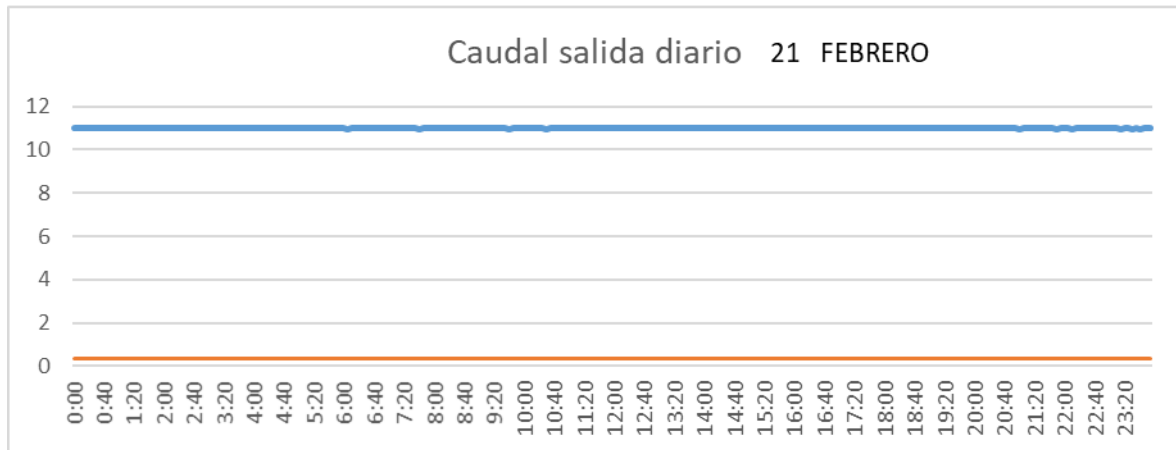
CUENCA



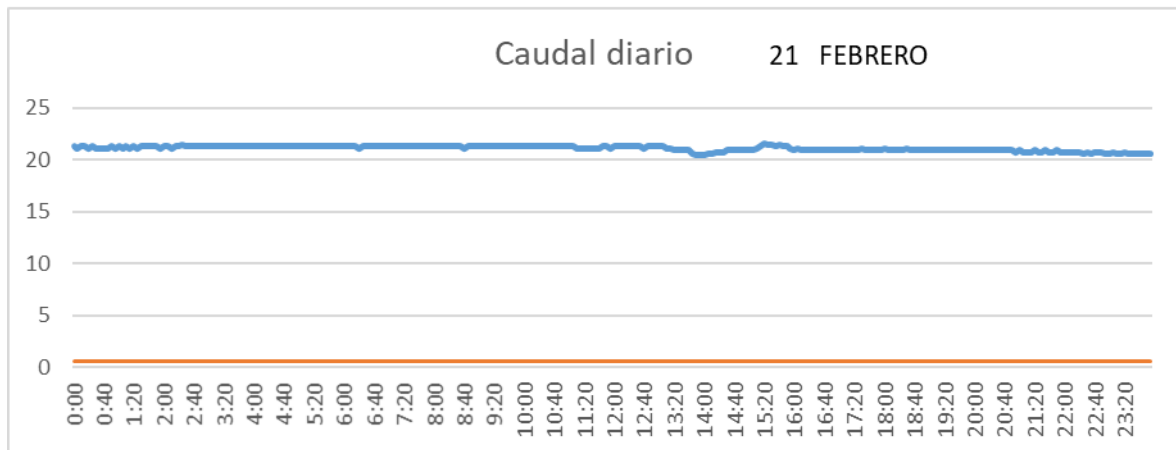
SAN LORENZO PARRILLA



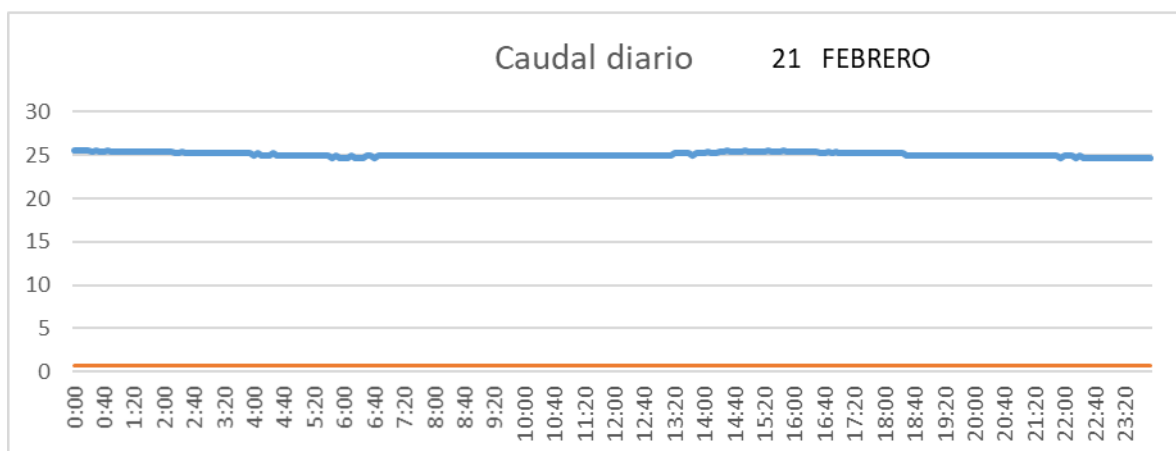
SALIDA TOBA



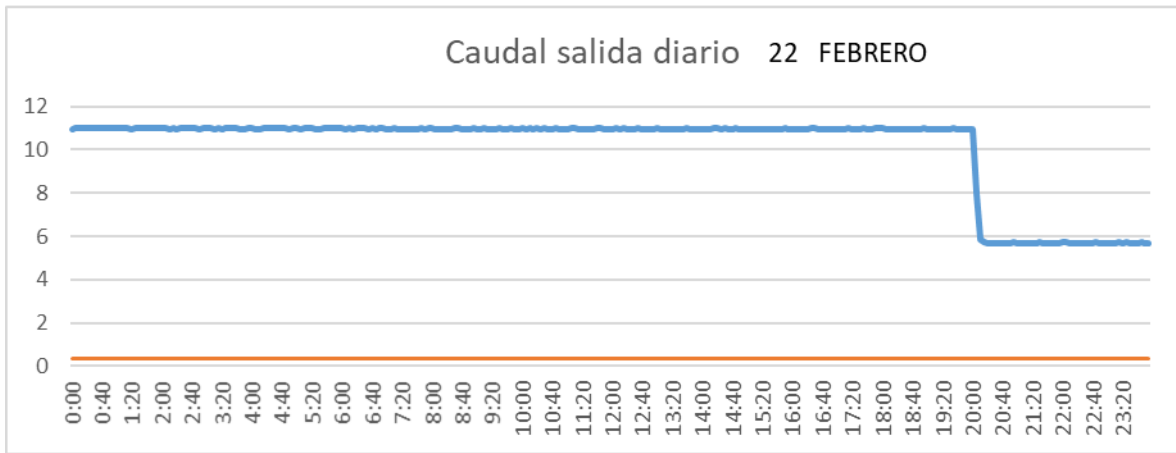
CUENCA



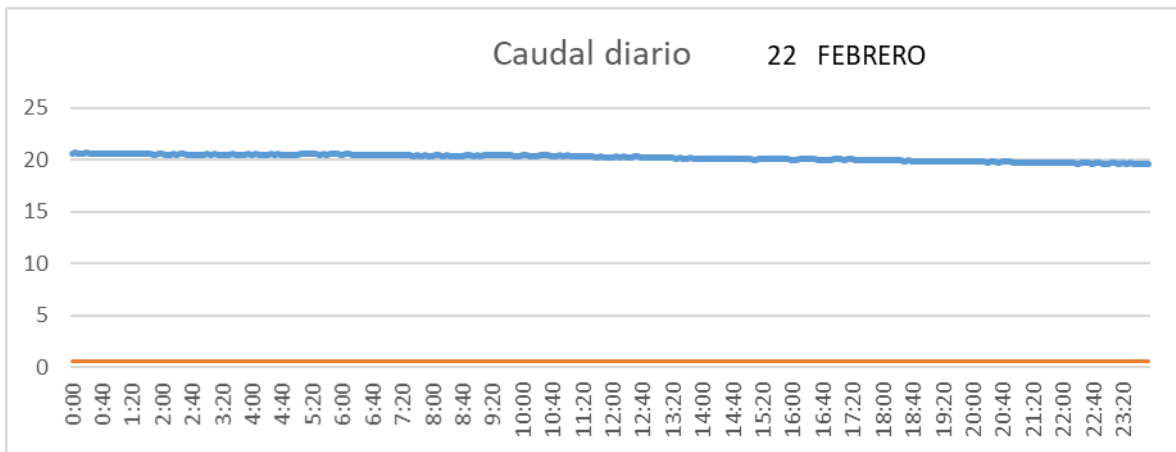
SAN LORENZO PARRILLA



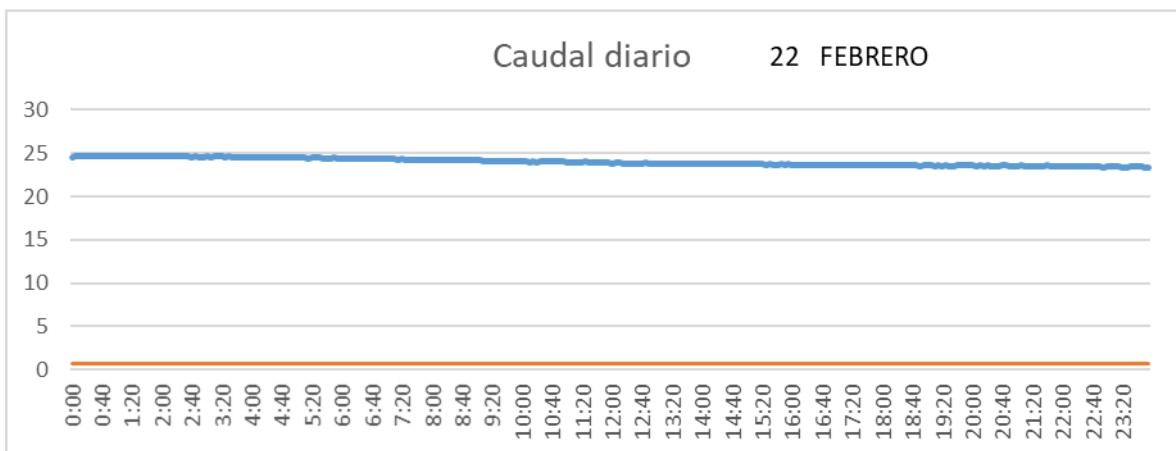
SALIDA TOBA



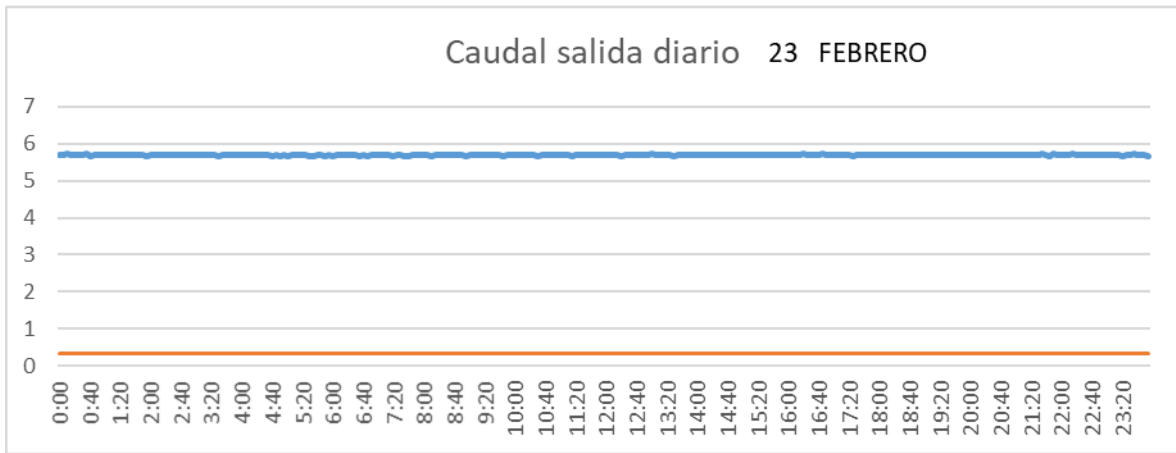
CUENCA



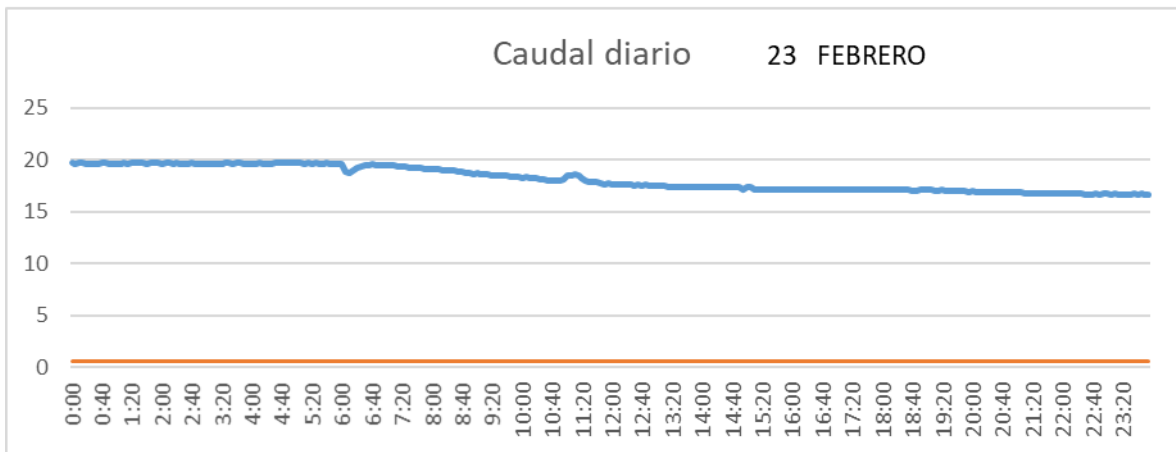
SAN LORENZO PARRILLA



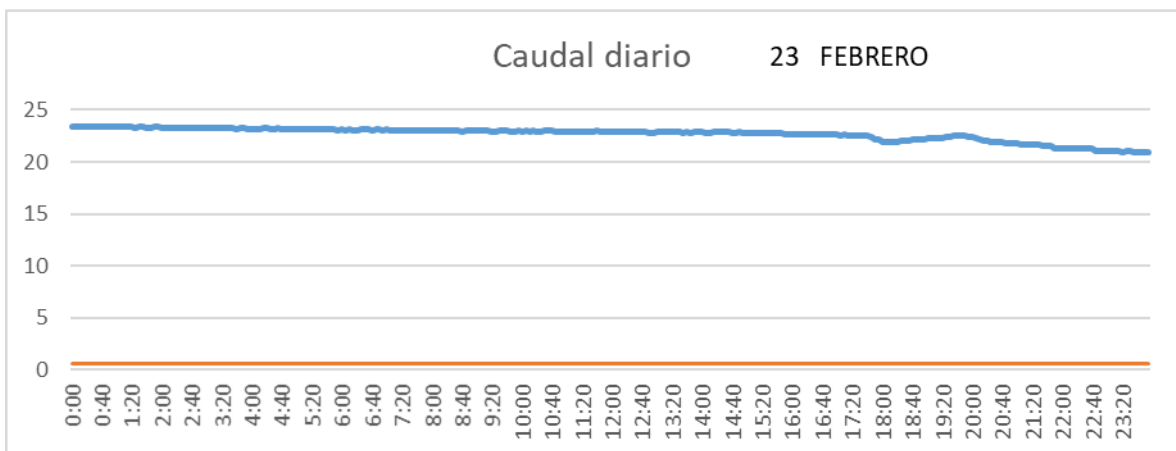
SALIDA TOBA



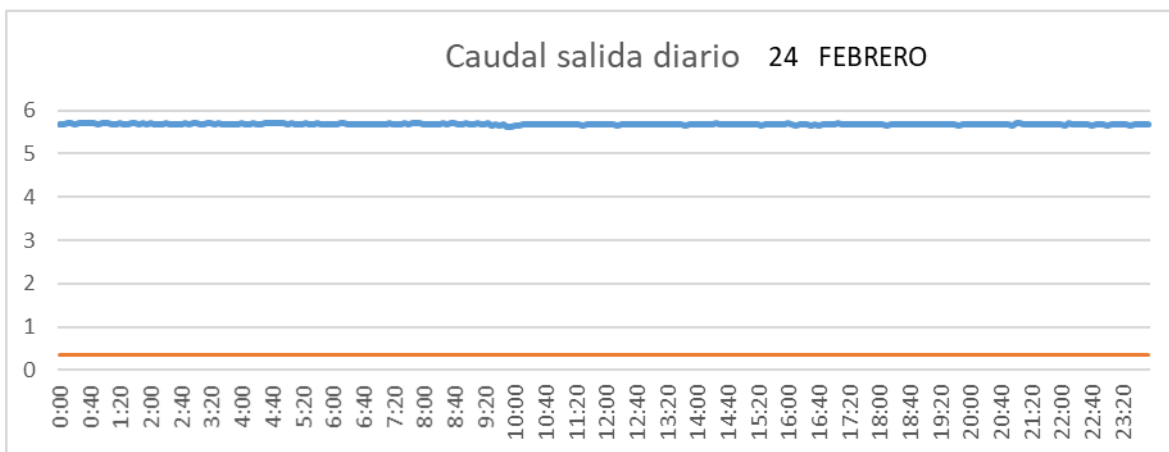
CUENCA



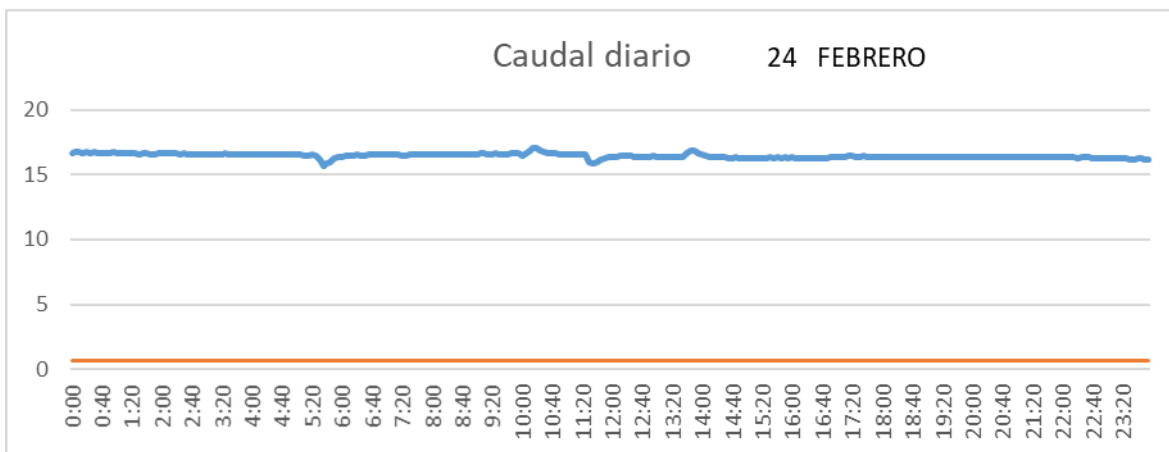
SAN LORENZO PARRILLA



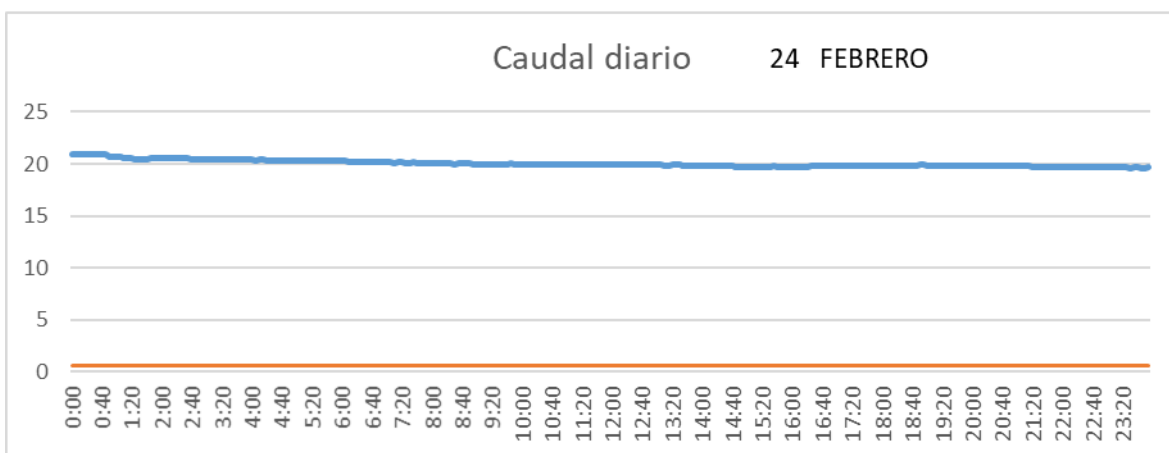
SALIDA TOBA



CUENCA

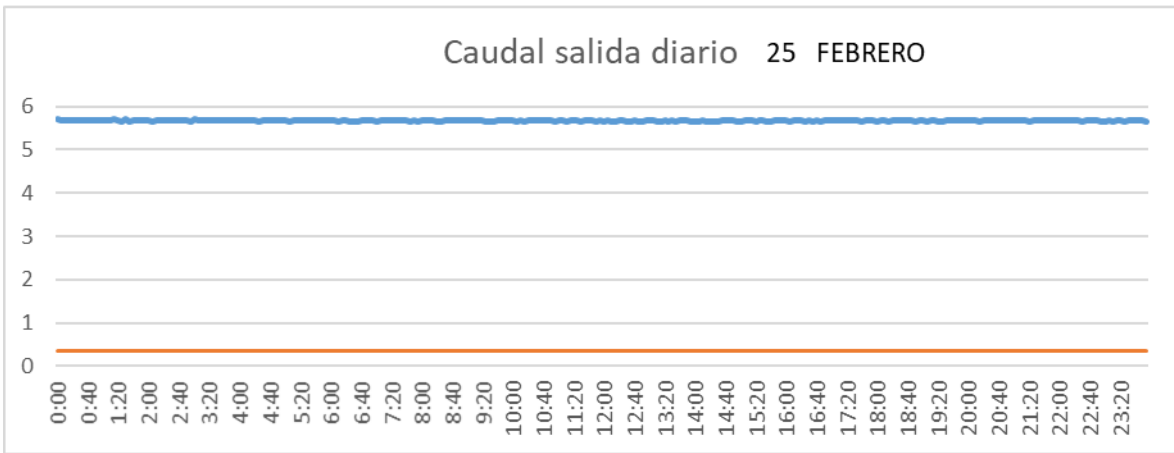


SAN LORENZO PARRILLA

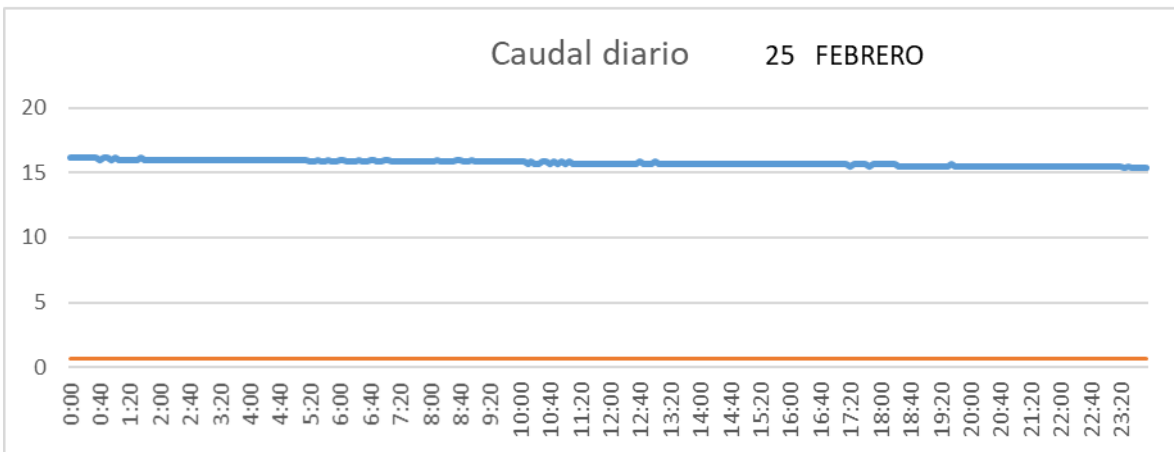




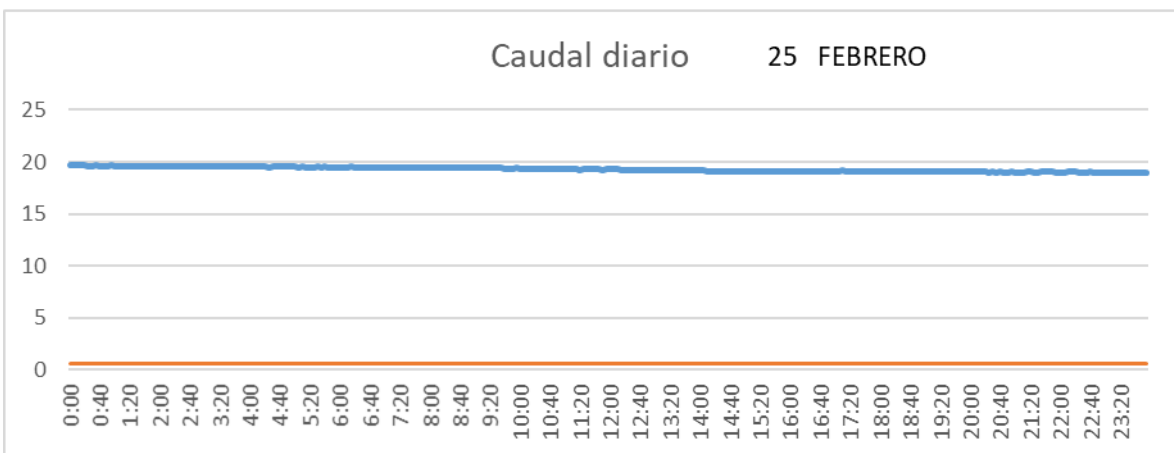
SALIDA TOBA



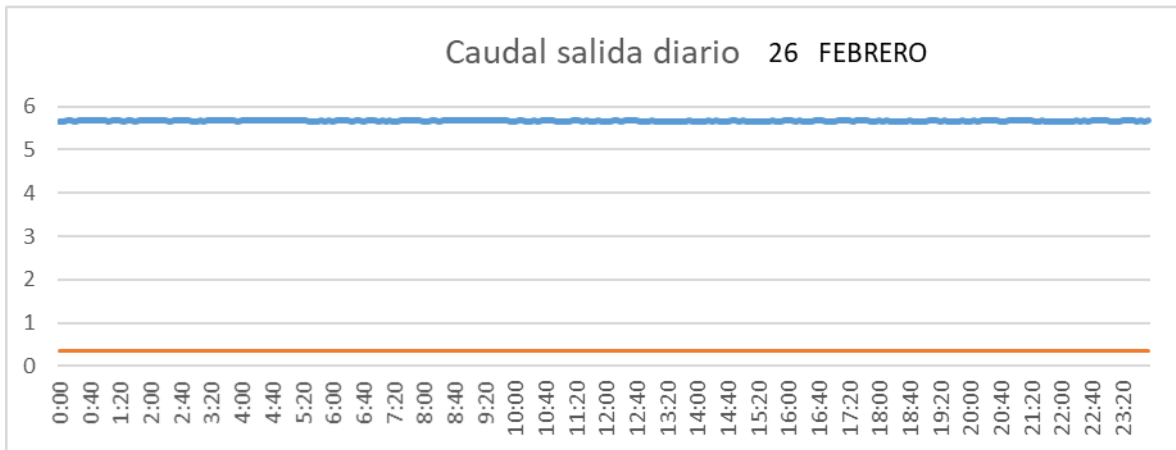
CUENCA



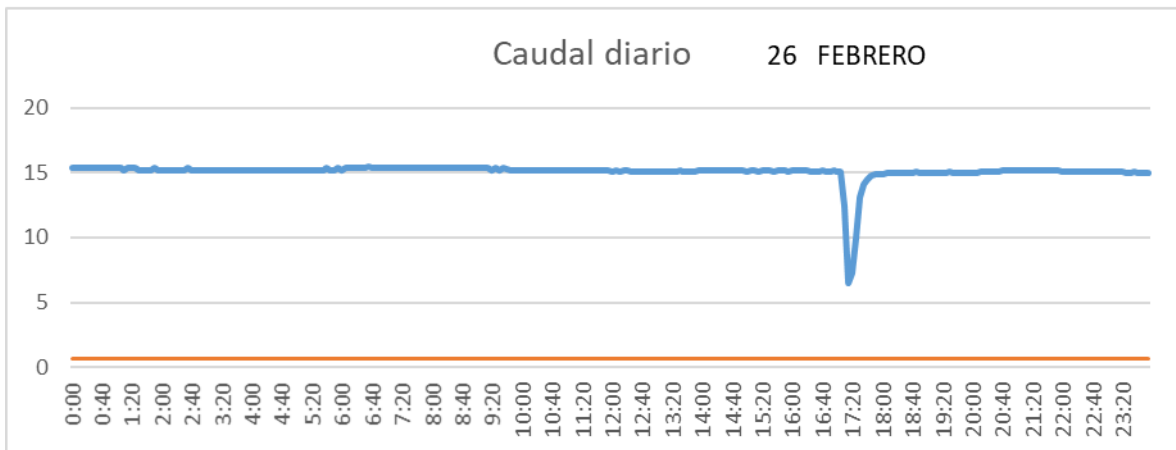
SAN LORENZO PARRILLA



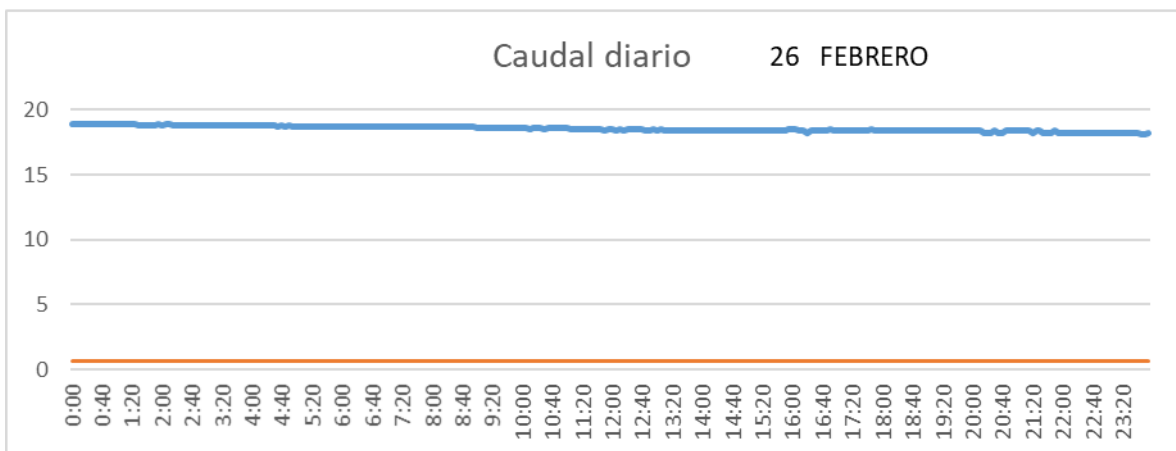
SALIDA TOBA



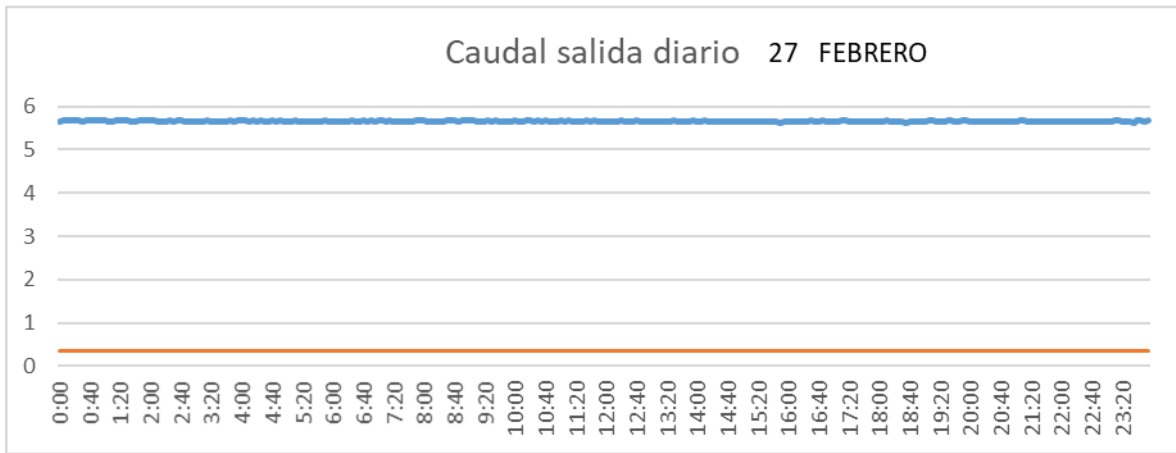
CUENCA



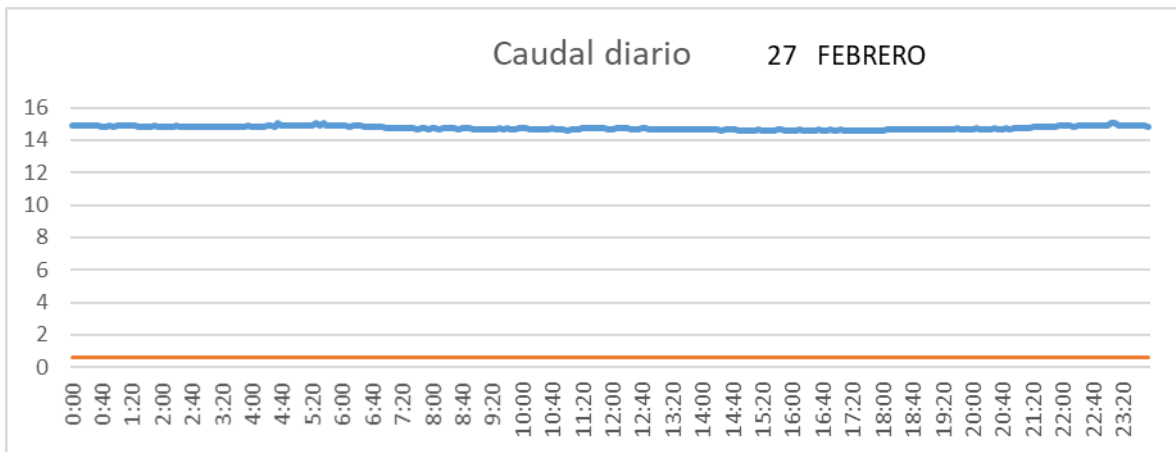
SAN LORENZO PARRILLA



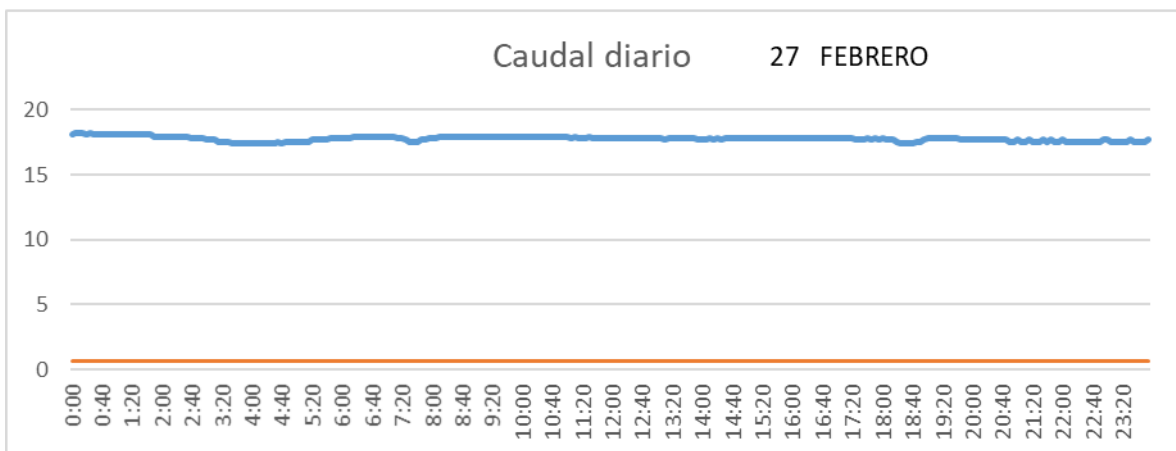
SALIDA TOBA



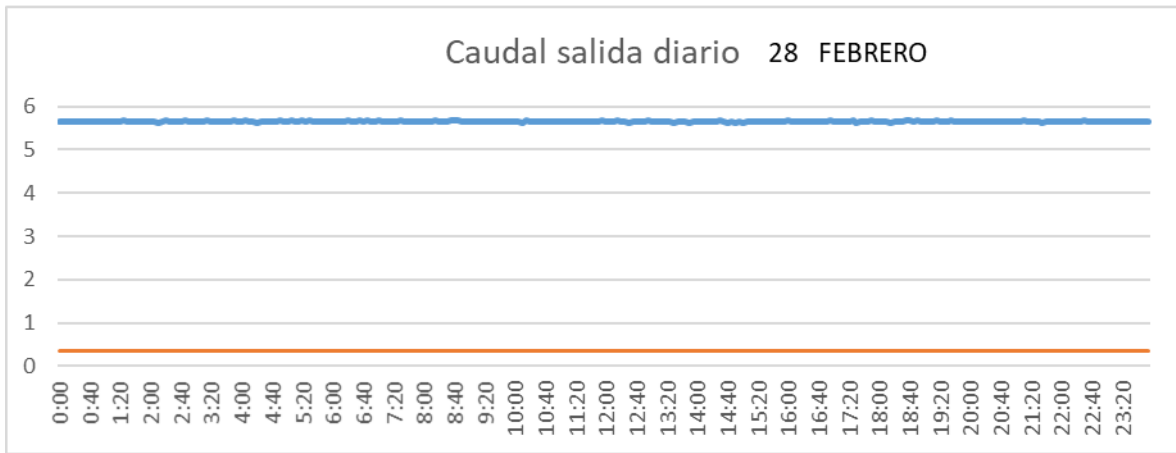
CUENCA



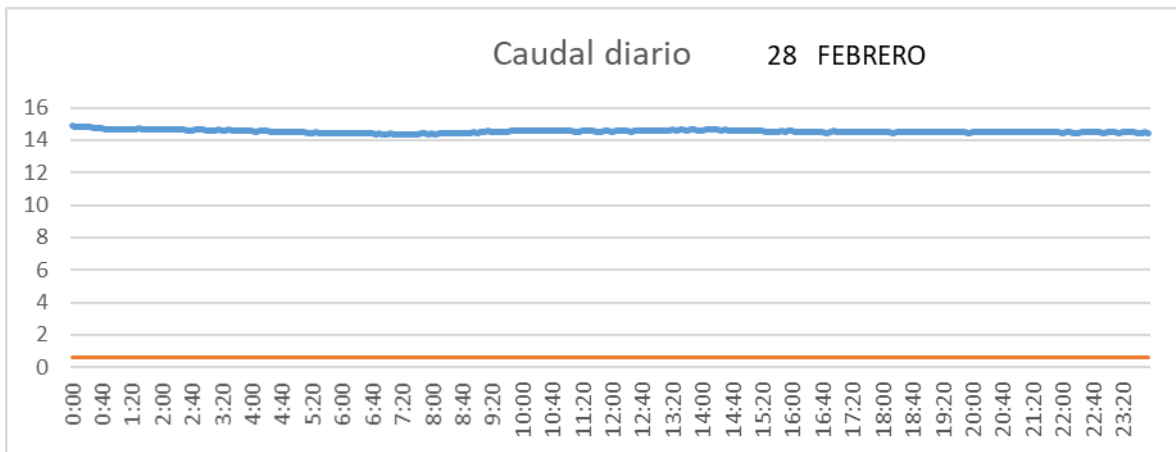
SAN LORENZO PARRILLA



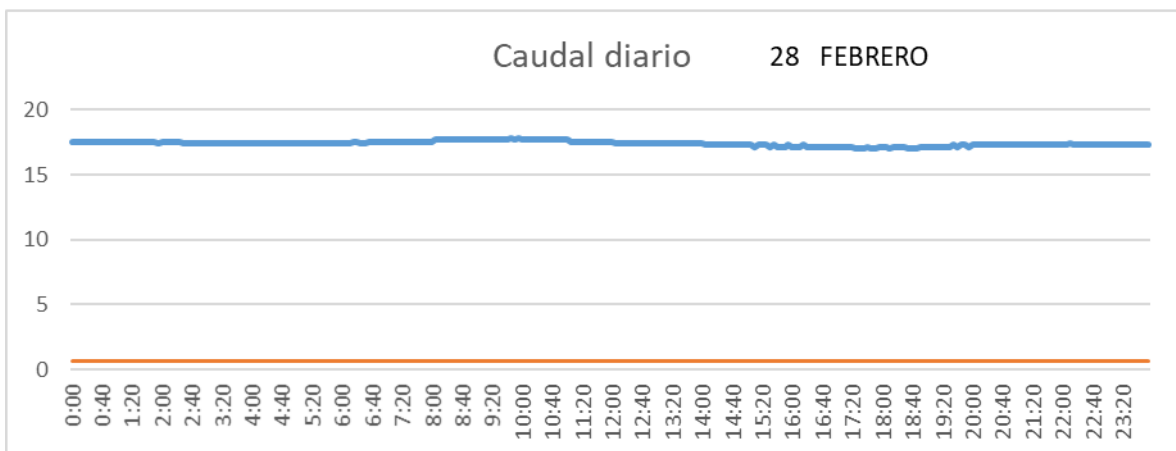
SALIDA TOBA



CUENCA

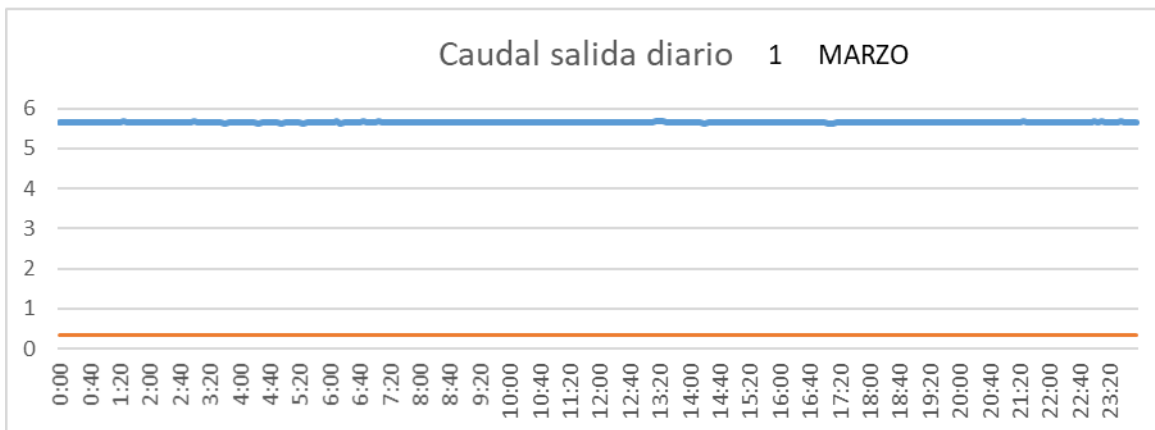


SAN LORENZO PARRILLA

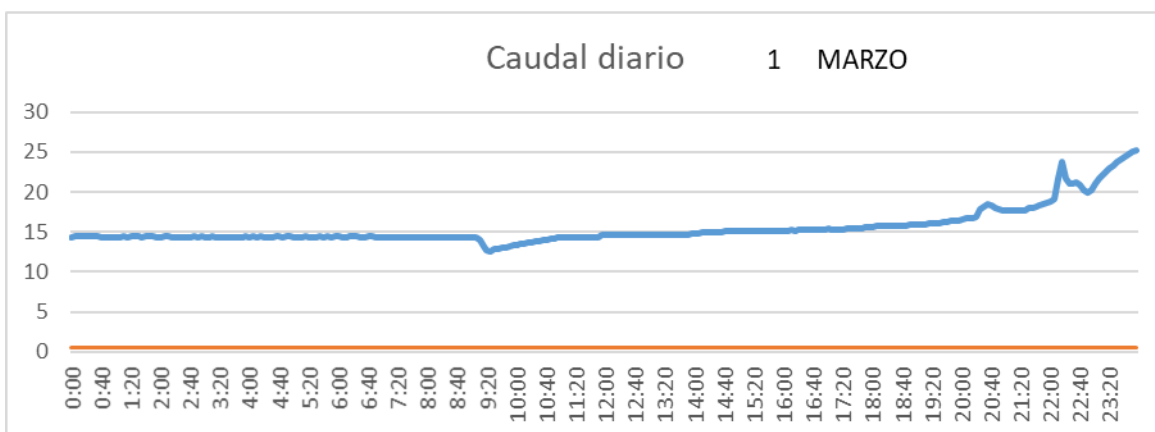


2.1.3 Marzo

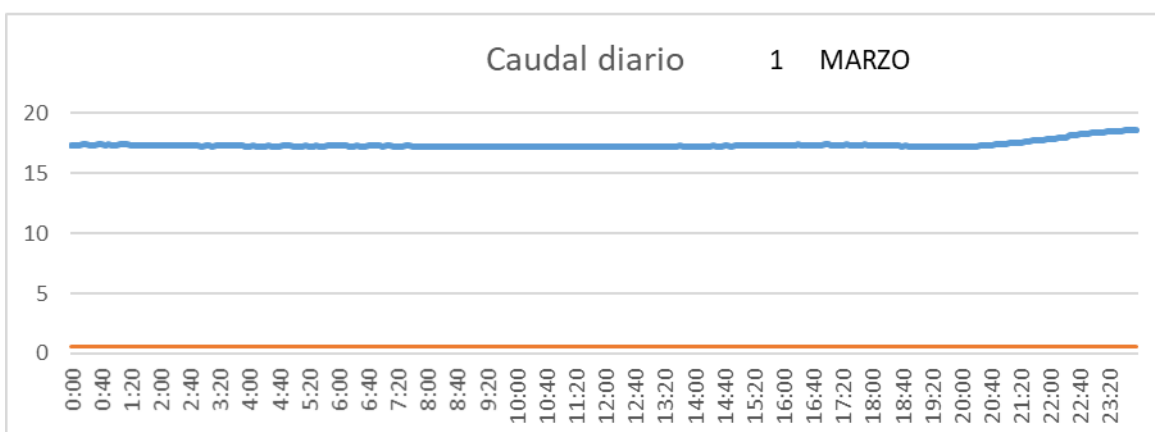
SALIDA TOBA



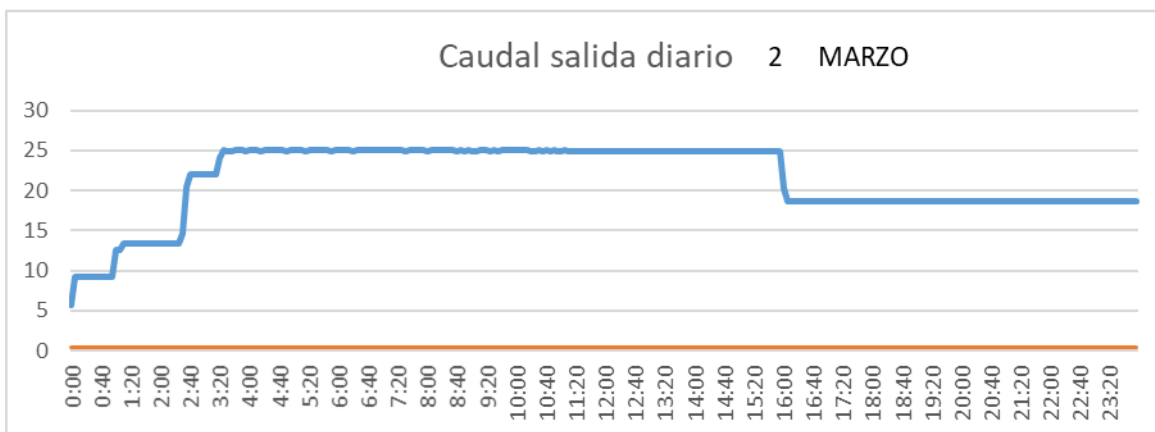
CUENCA



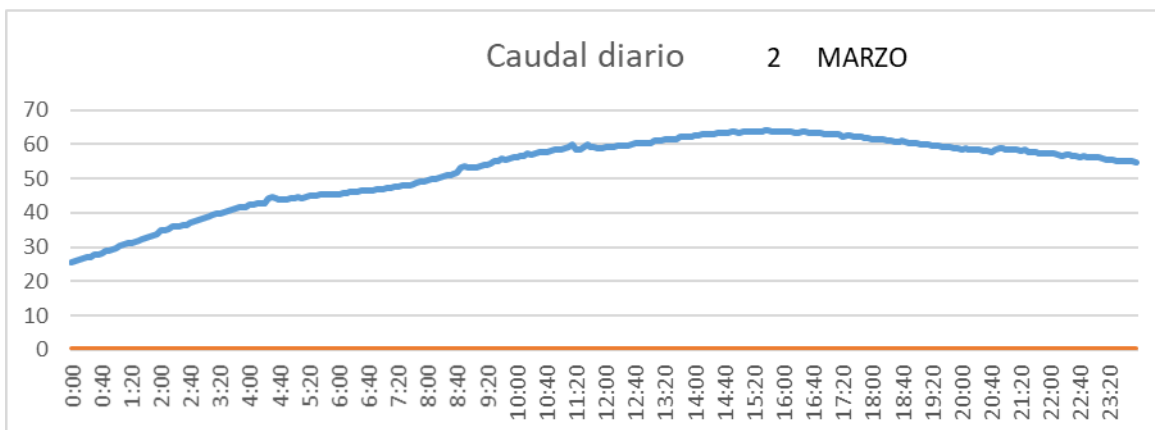
SAN LORENZO PARRILLA



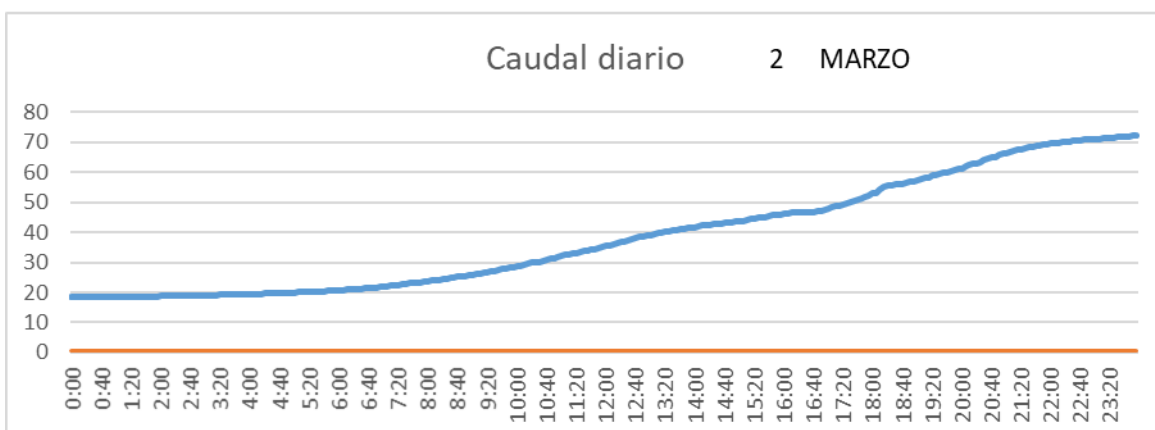
SALIDA TOBA



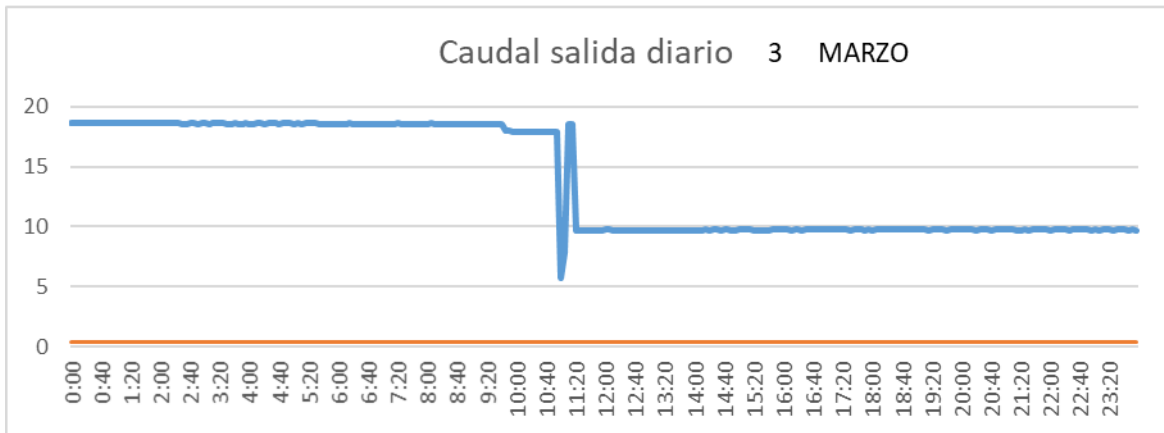
CUENCA



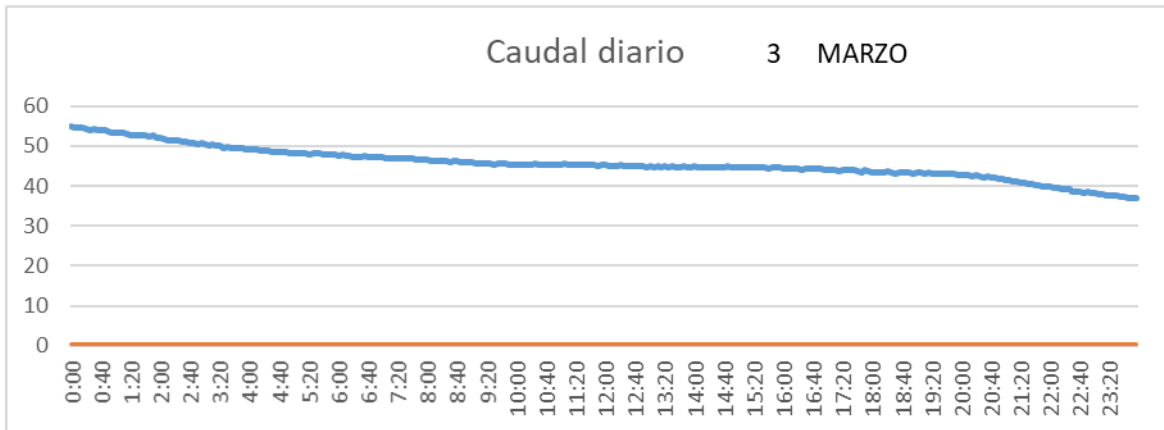
SAN LORENZO PARRILLA



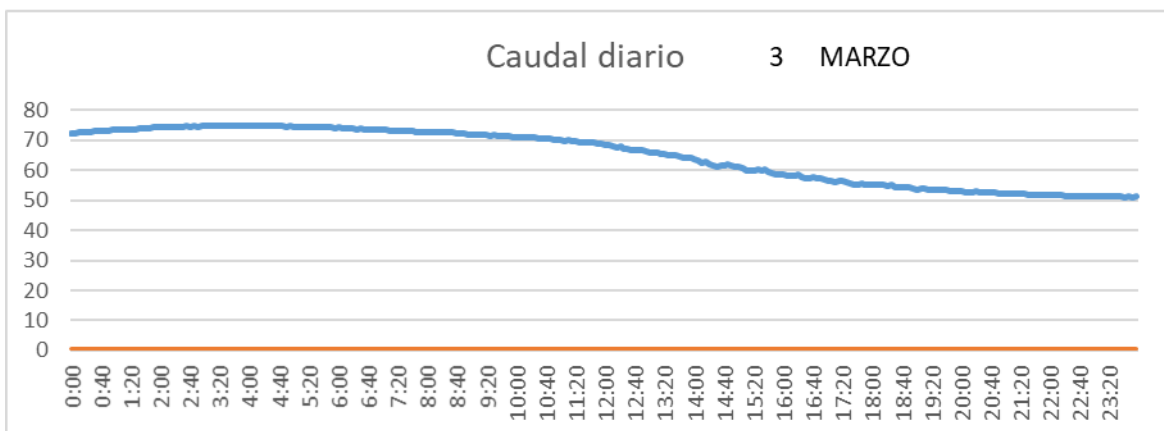
SALIDA TOBA



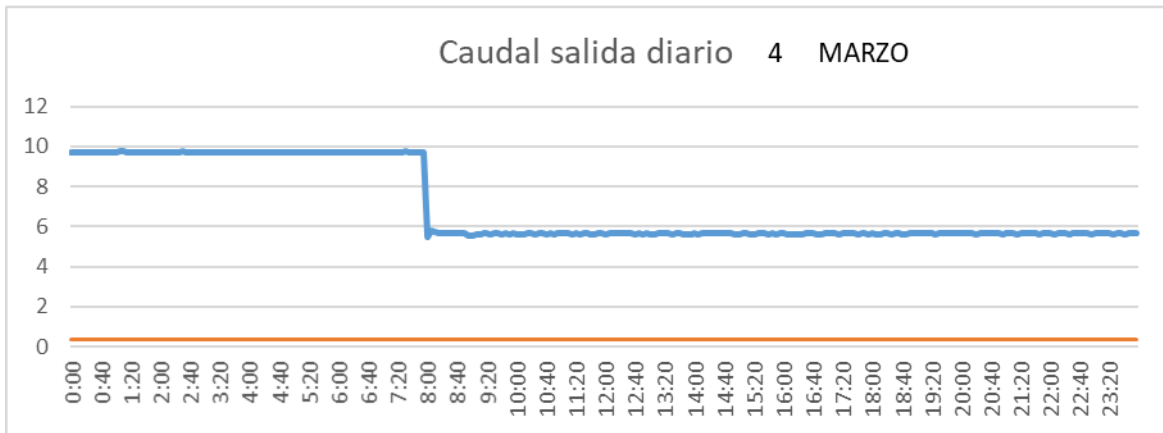
CUENCA



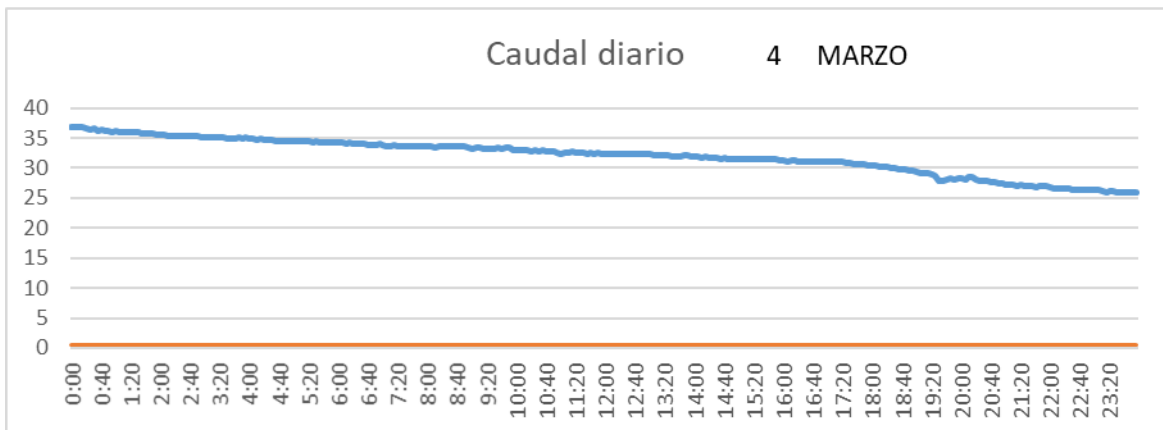
SAN LORENZO PARRILLA



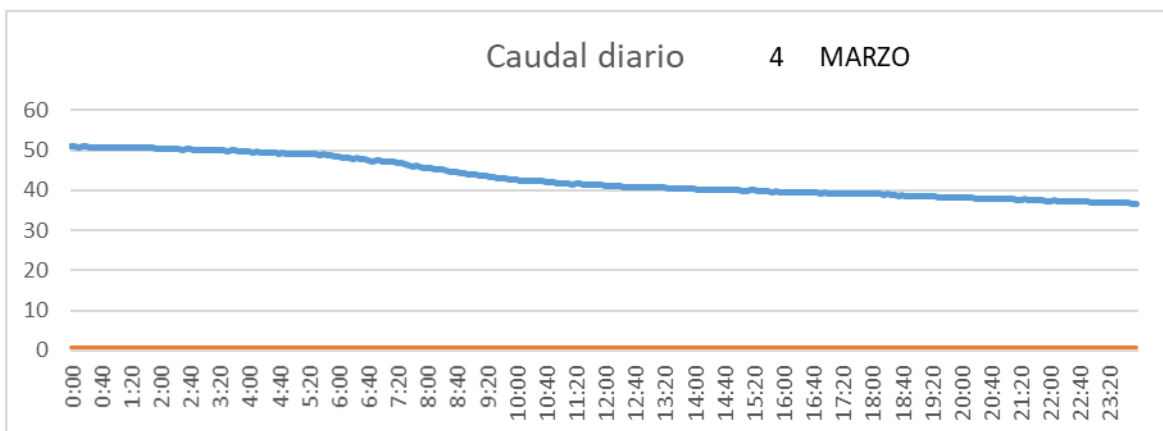
SALIDA TOBA



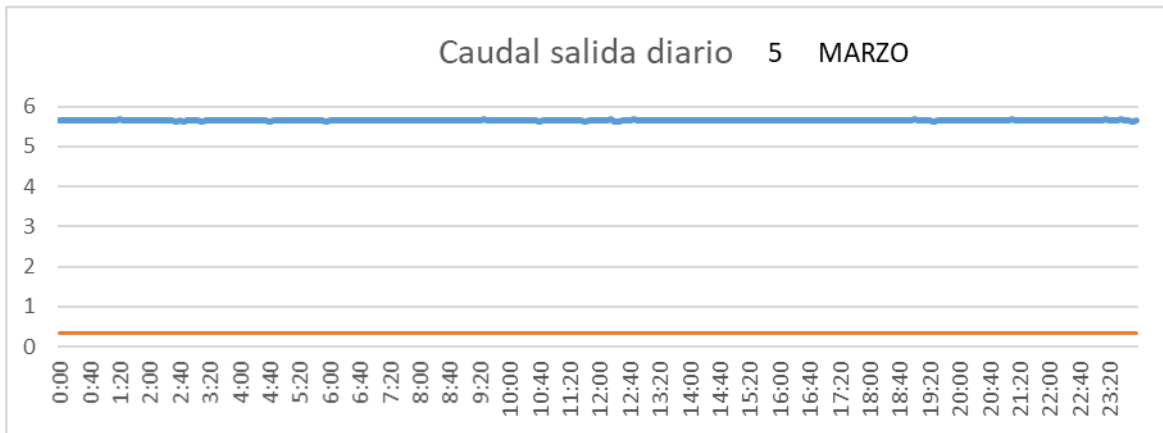
CUENCA



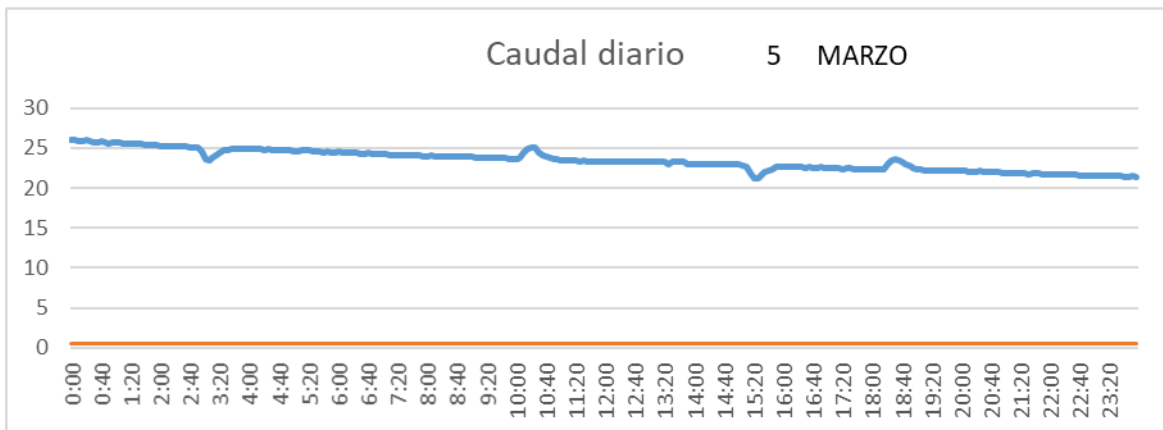
SAN LORENZO PARRILLA



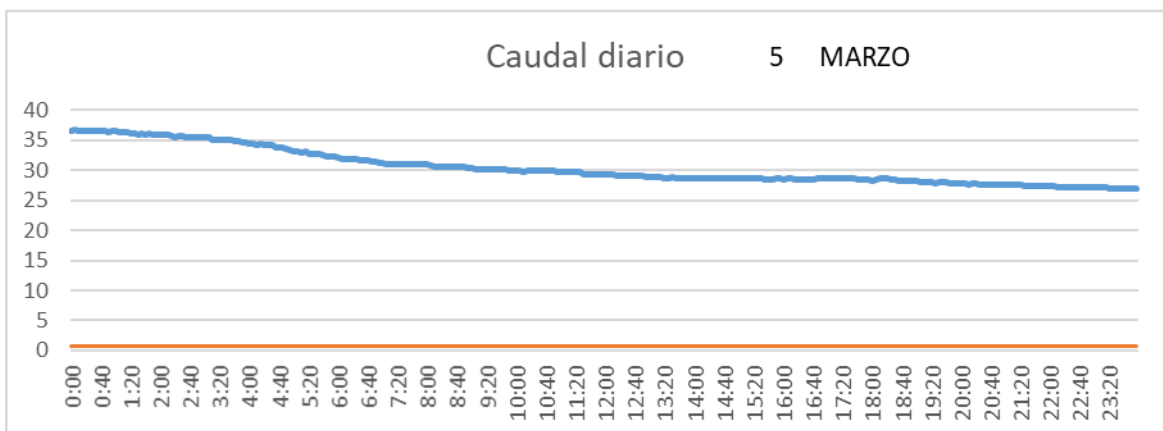
SALIDA TOBA



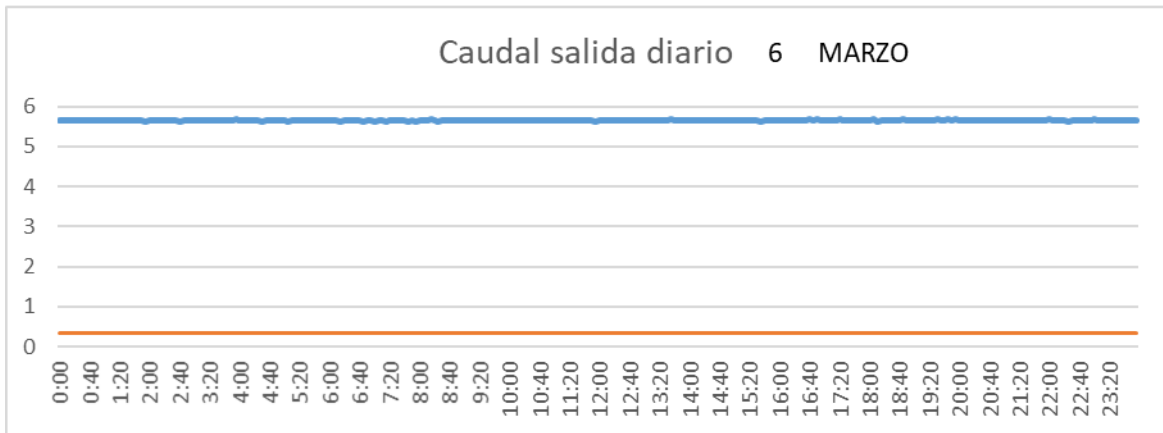
CUENCA



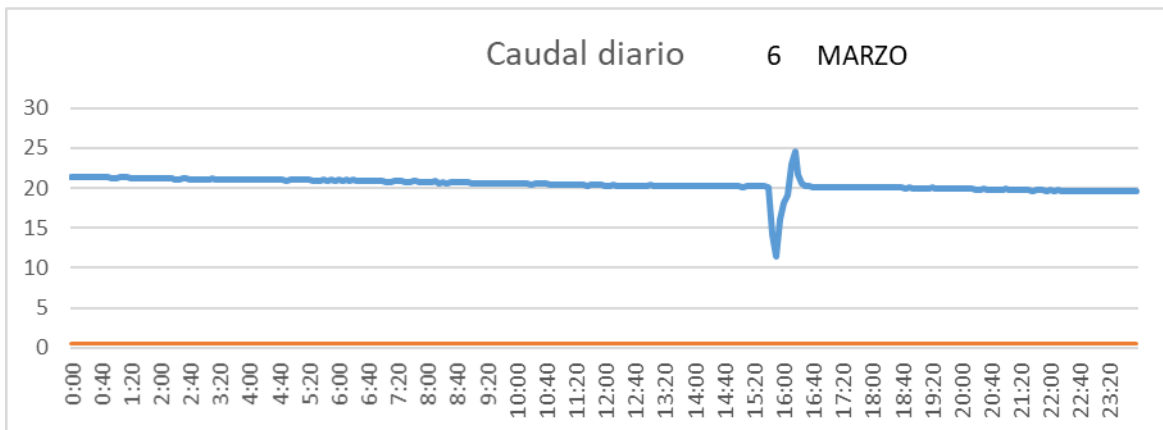
SAN LORENZO PARRILLA



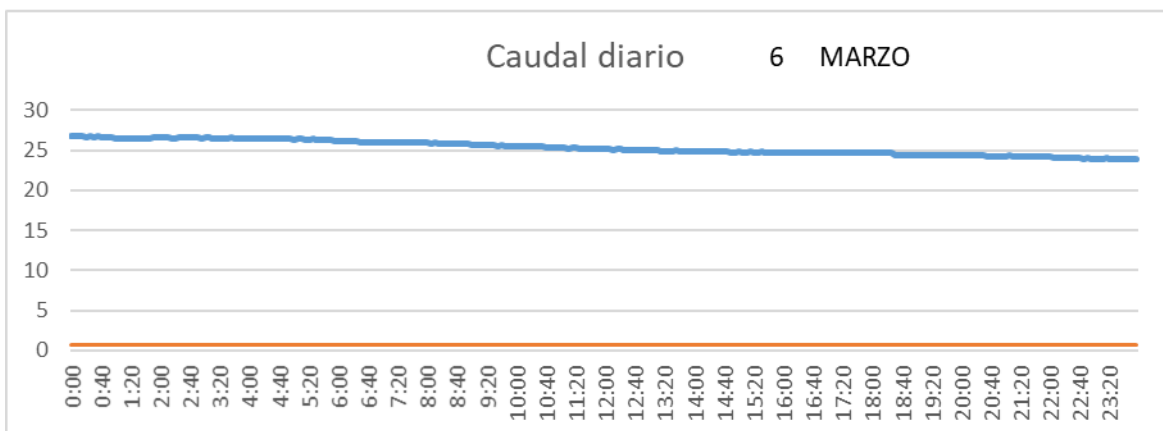
SALIDA TOBA



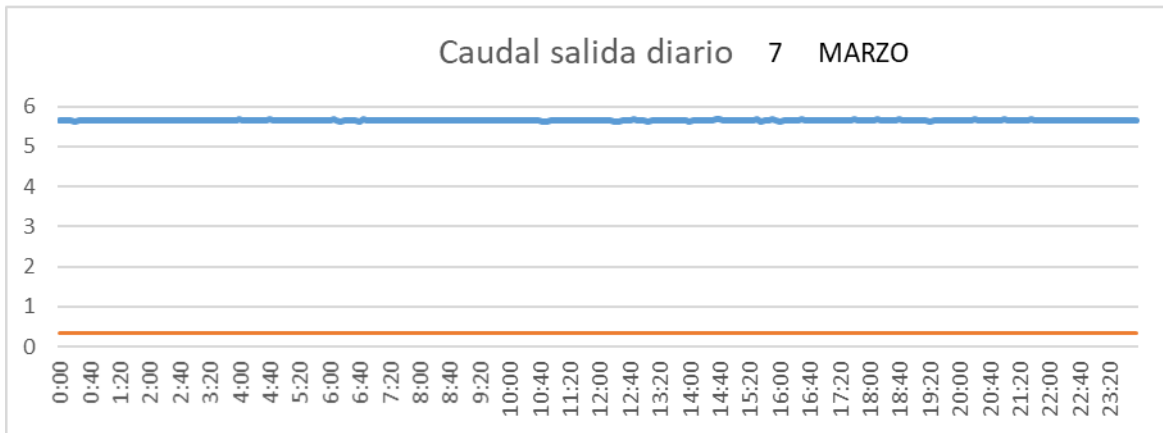
CUENCA



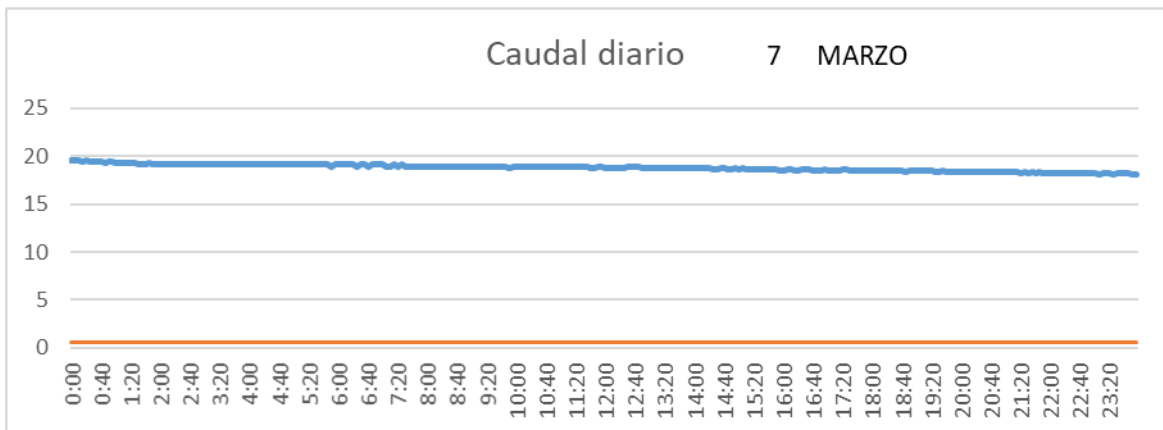
SAN LORENZO PARRILLA



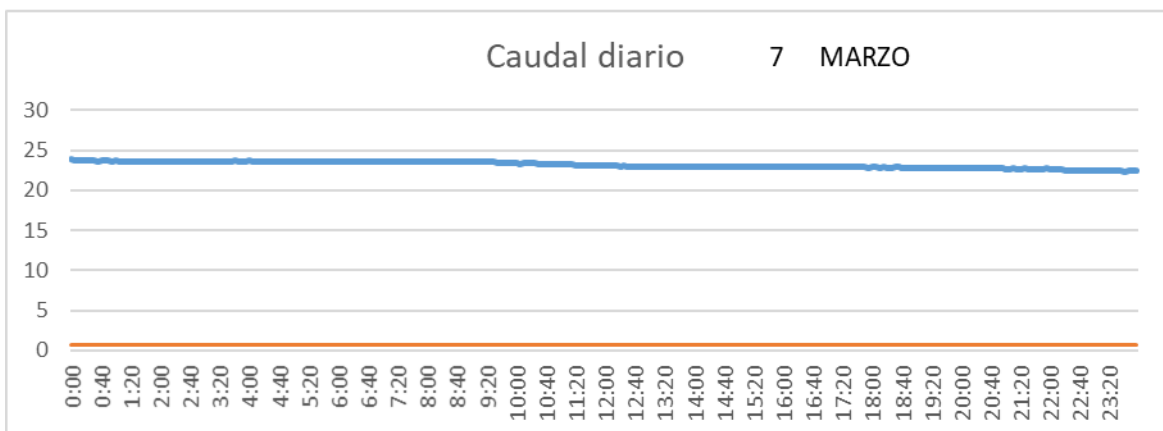
SALIDA TOBA



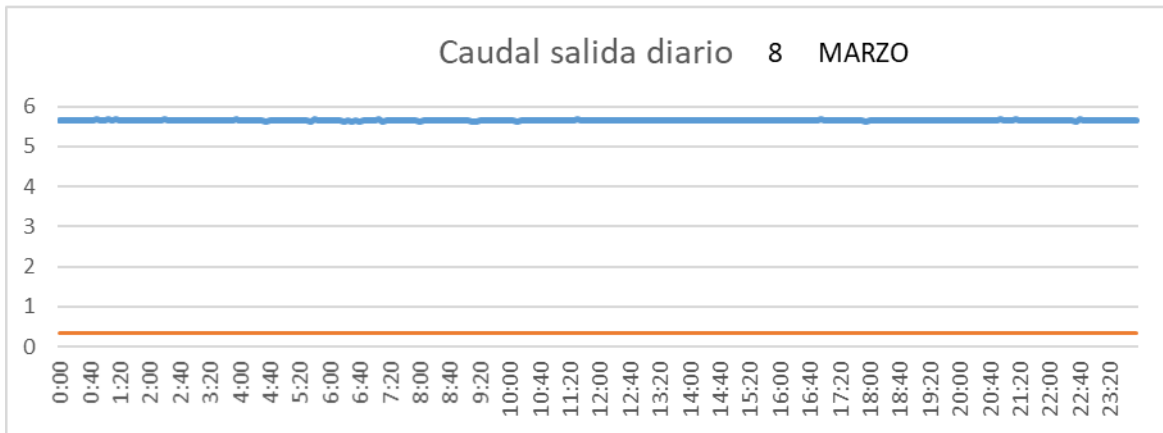
CUENCA



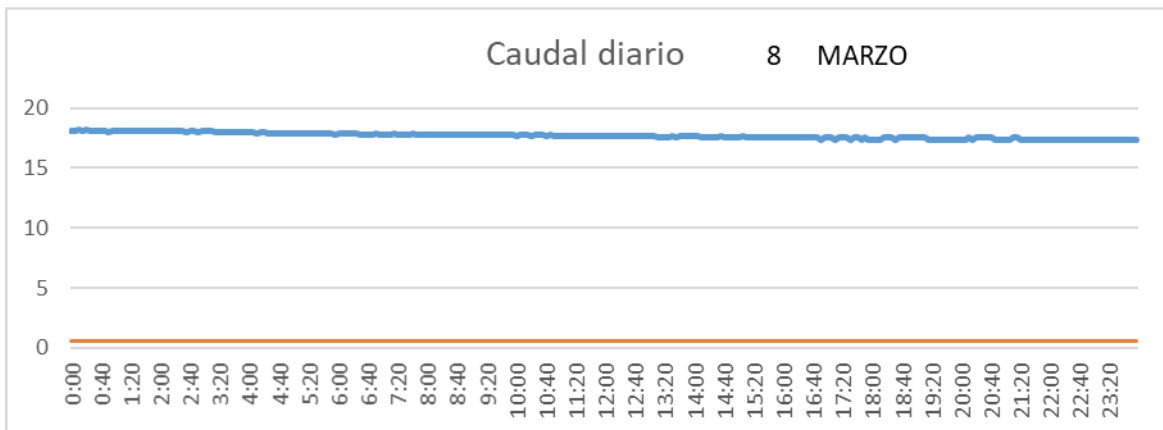
SAN LORENZO PARRILLA



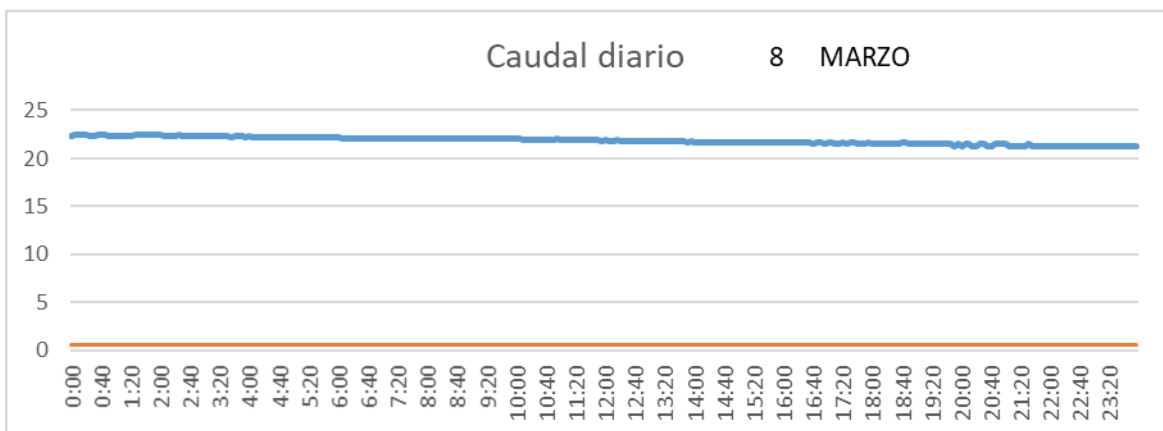
SALIDA TOBA



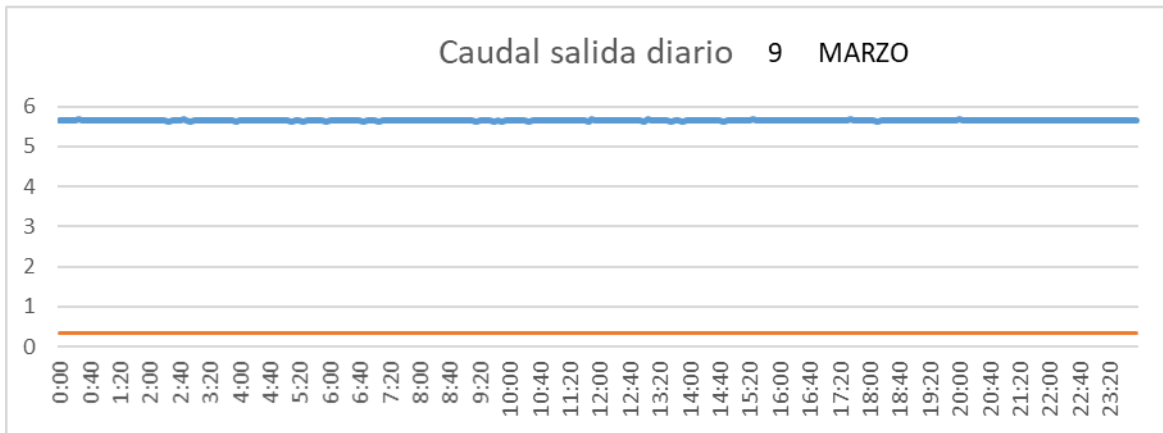
CUENCA



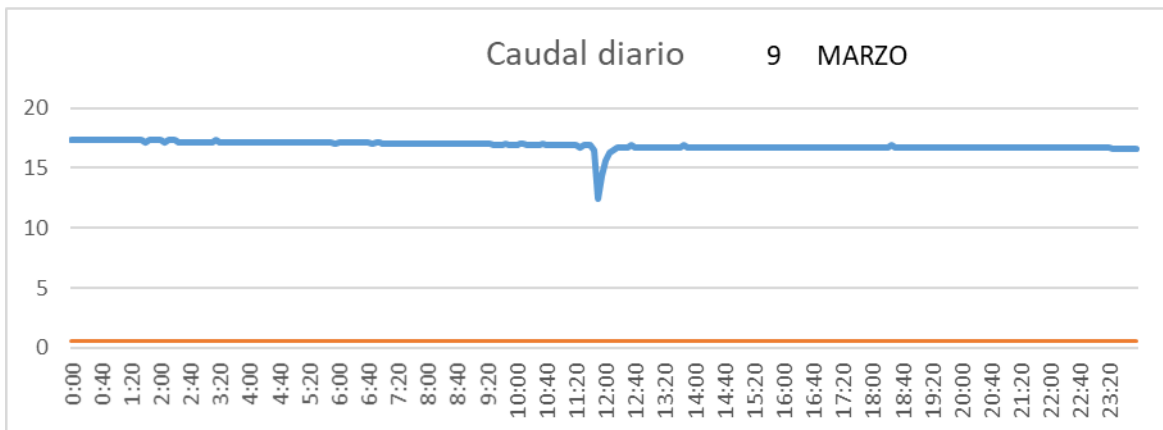
SAN LORENZO PARRILLA



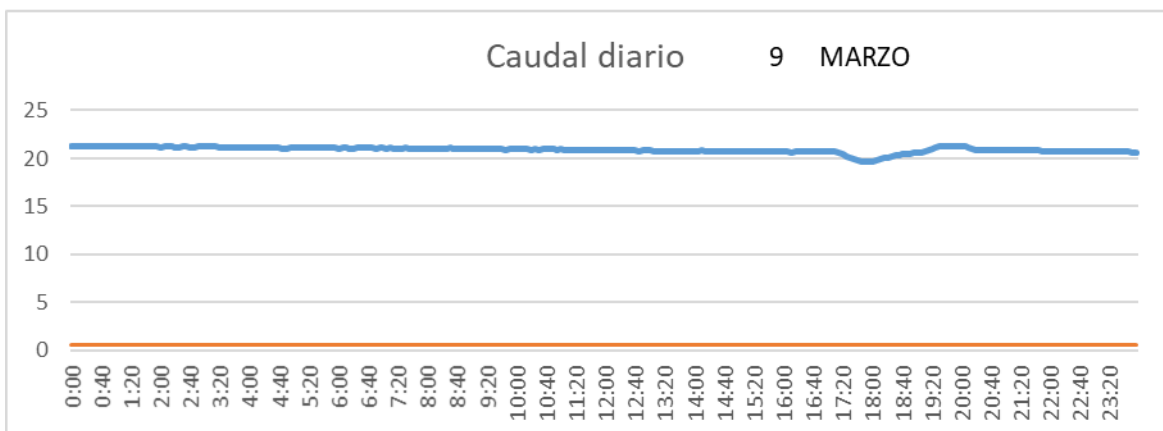
SALIDA TOBA



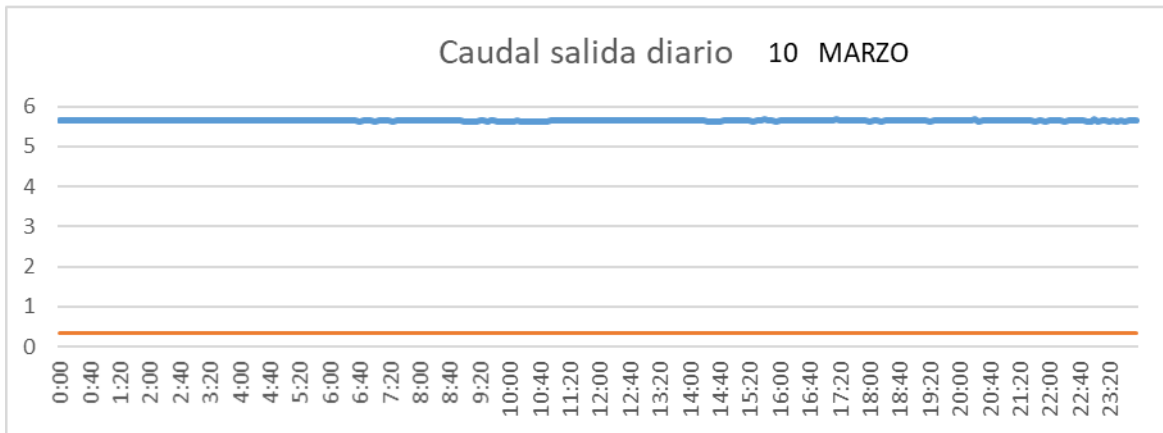
CUENCA



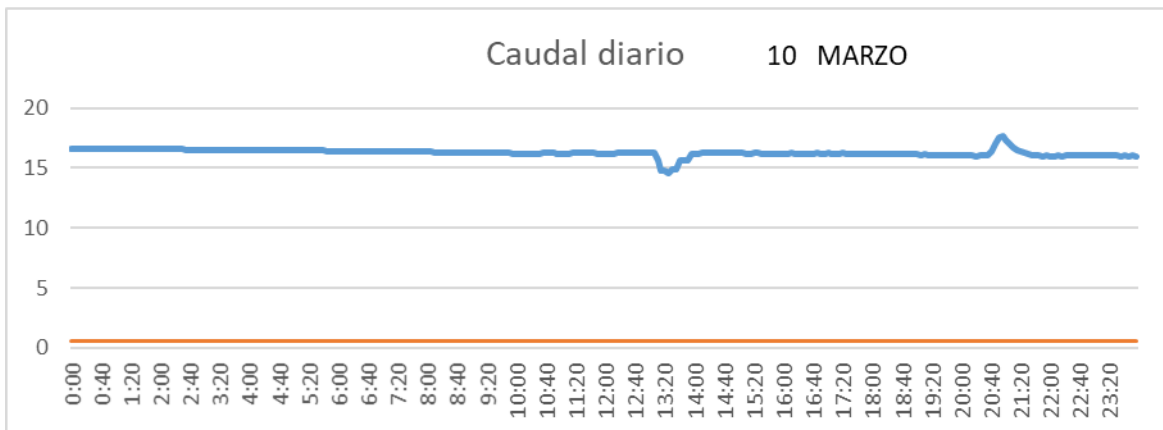
SAN LORENZO PARRILLA



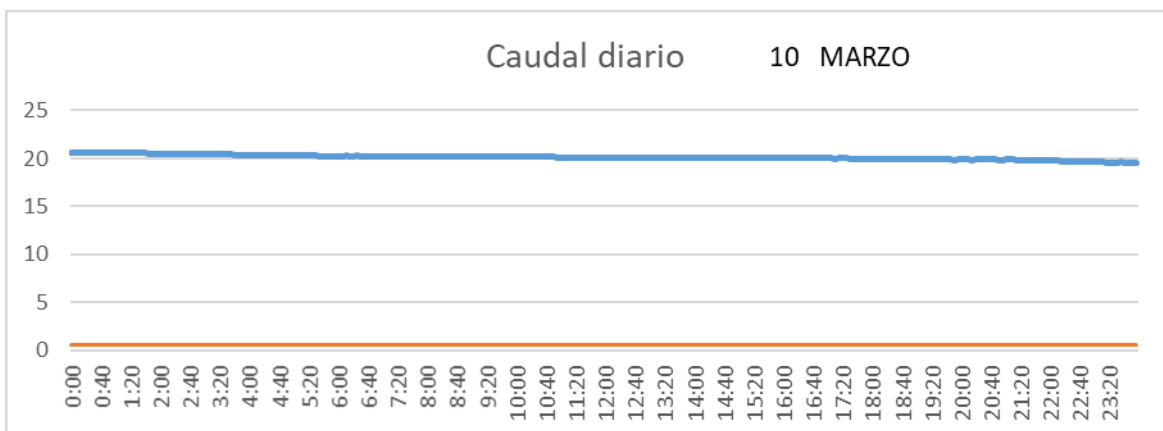
SALIDA TOBA



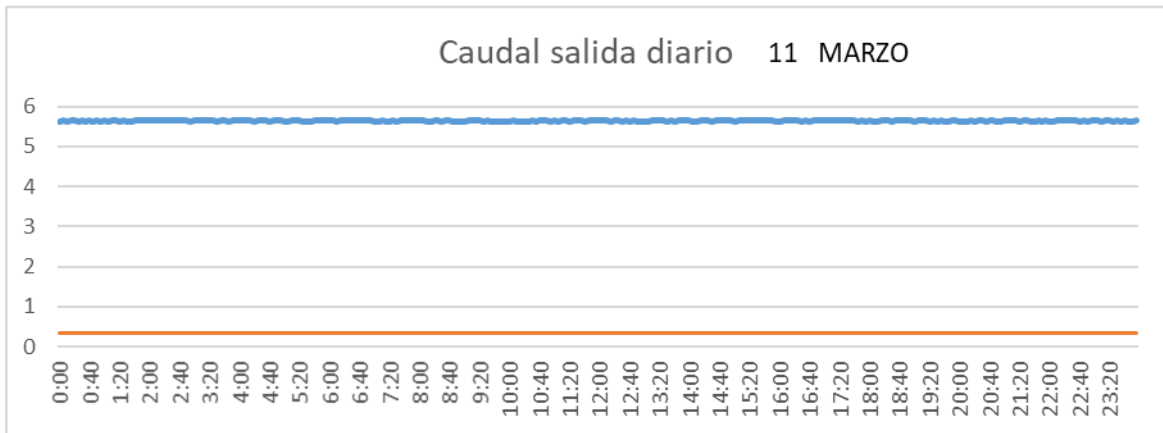
CUENCA



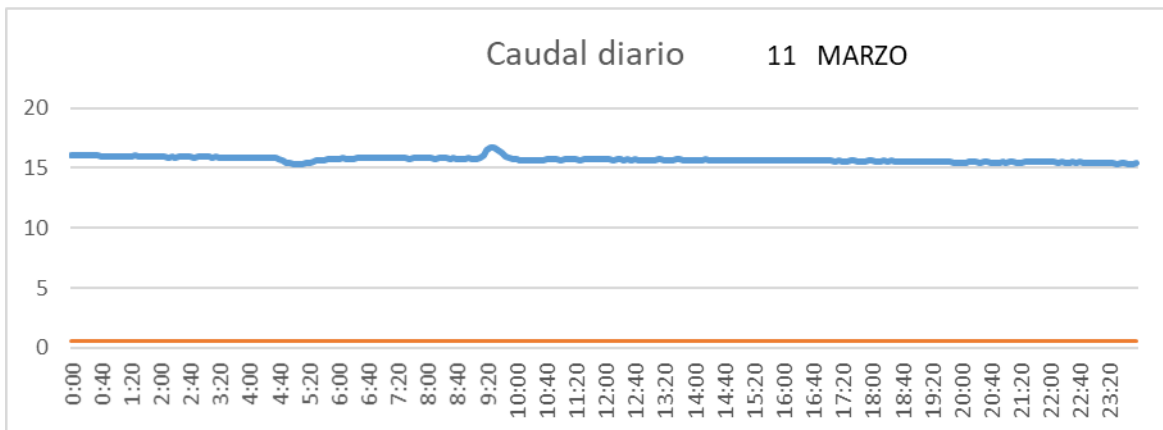
SAN LORENZO PARRILLA



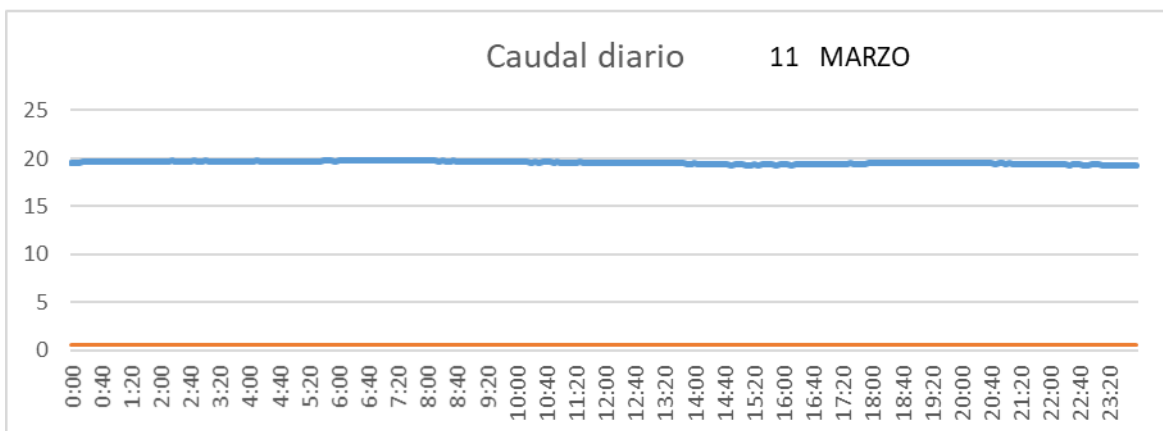
SALIDA TOBA



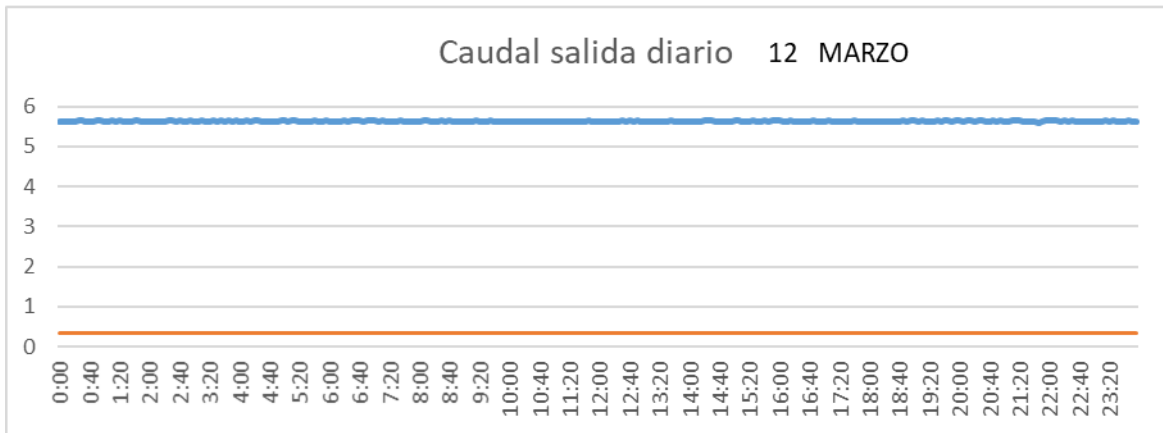
CUENCA



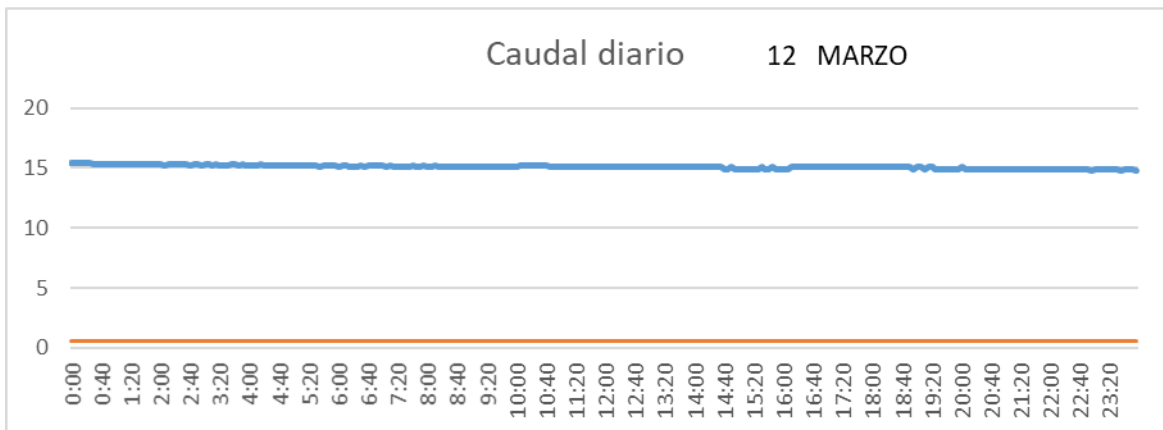
SAN LORENZO PARRILLA



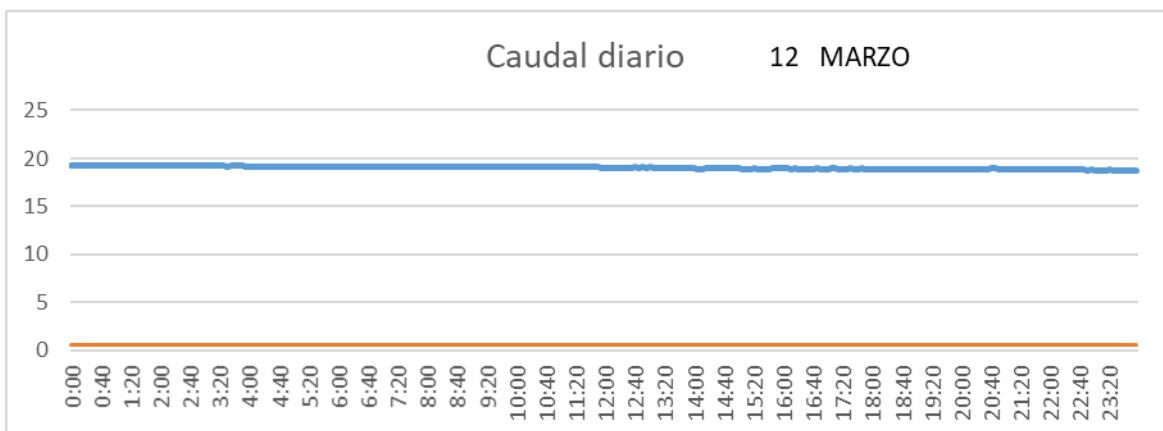
SALIDA TOBA



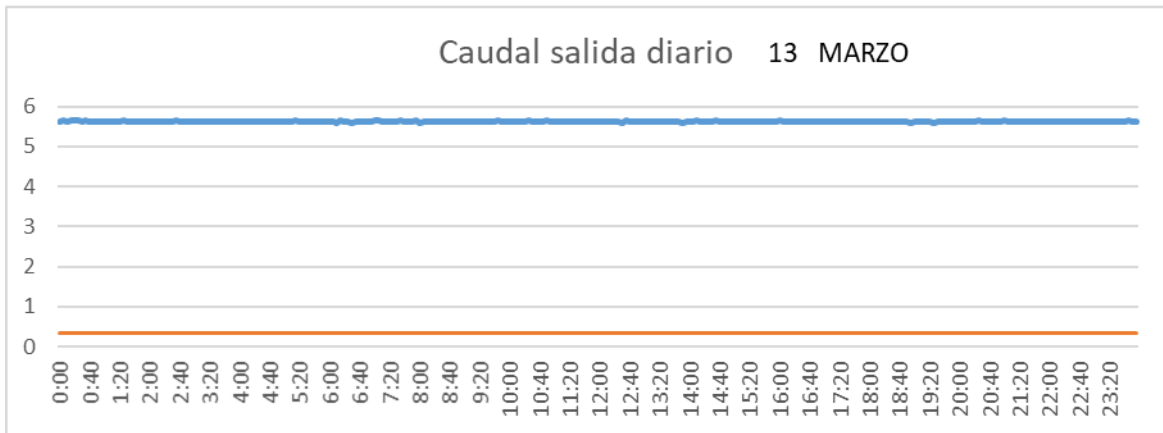
CUENCA



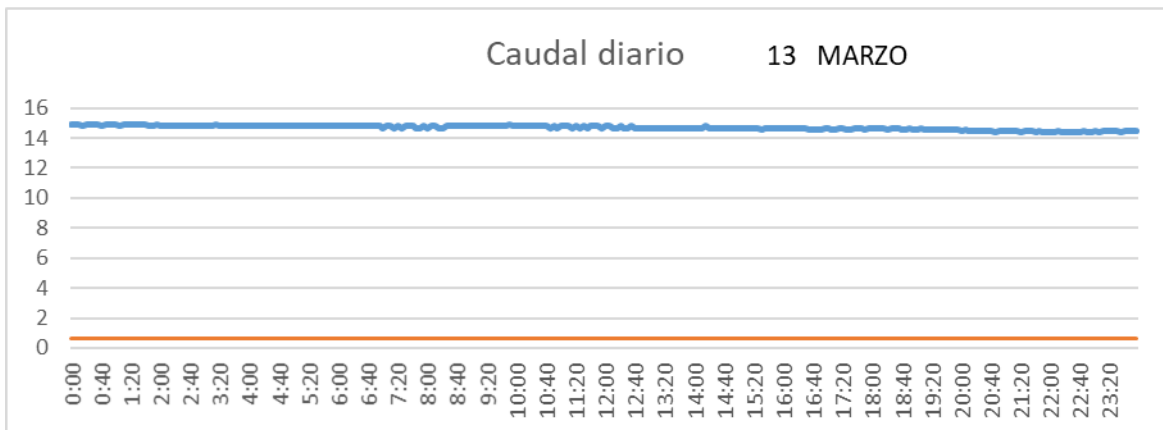
SAN LORENZO PARRILLA



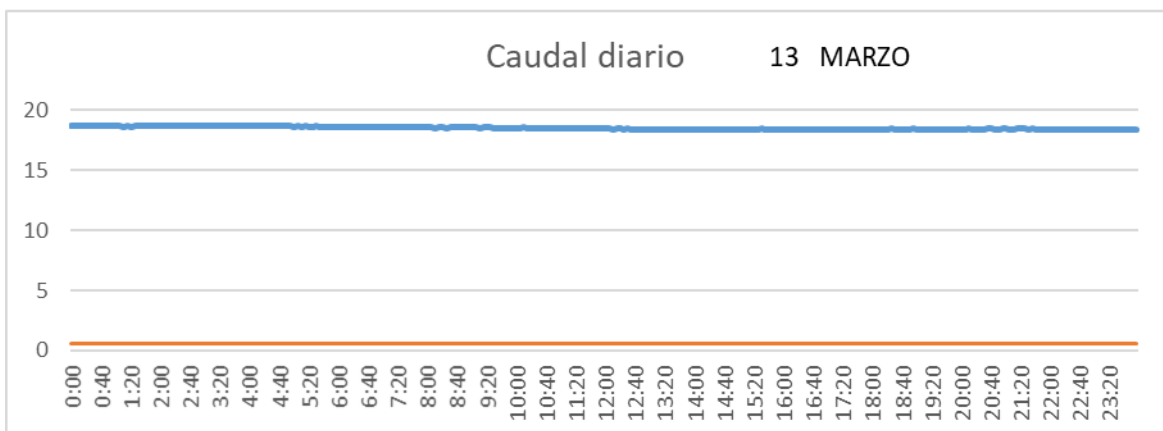
SALIDA TOBA



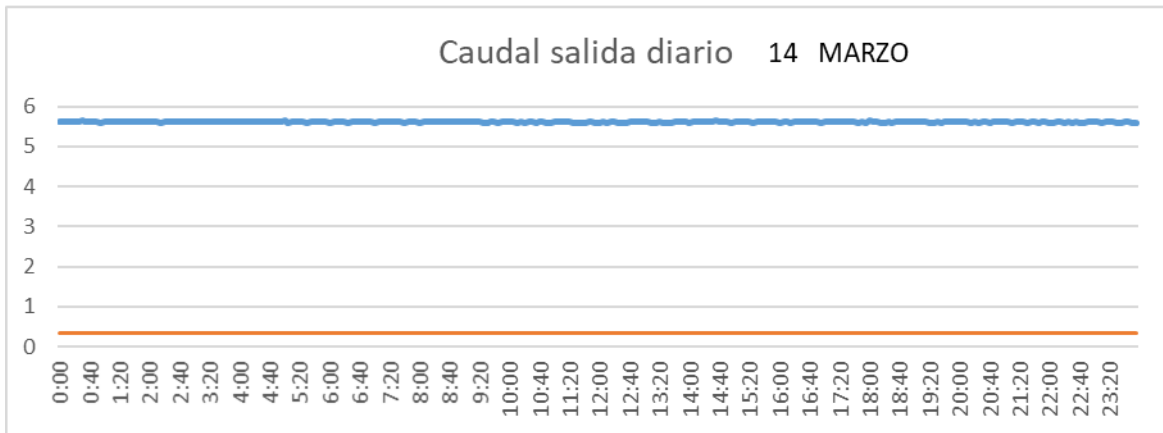
CUENCA



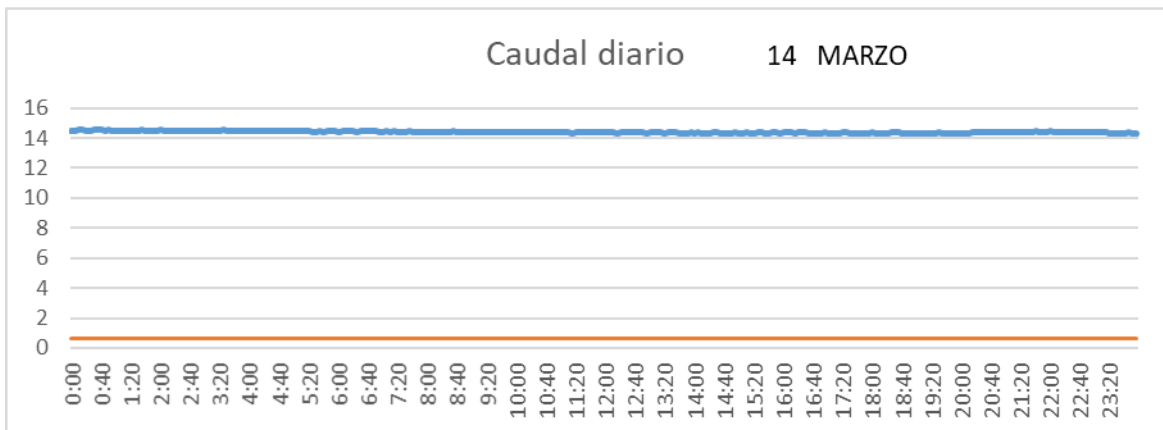
SAN LORENZO PARRILLA



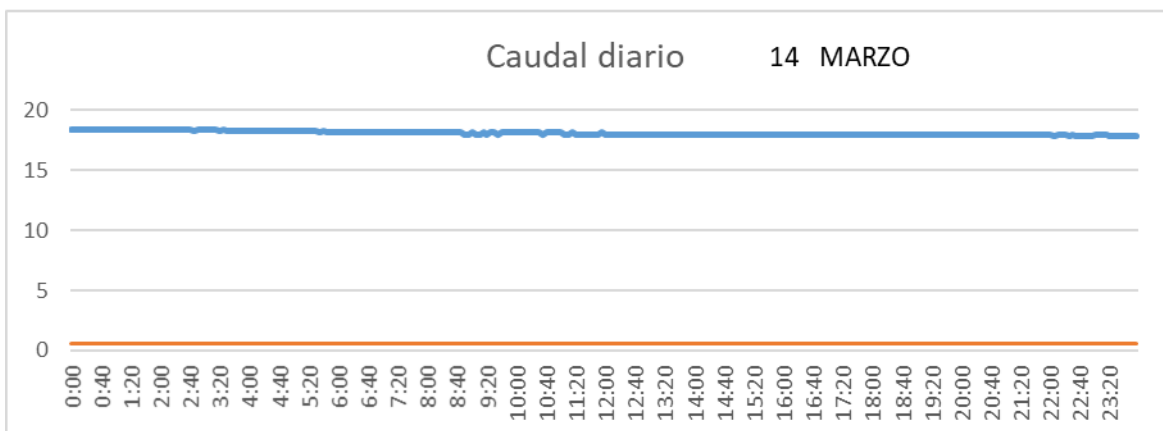
SALIDA TOBA



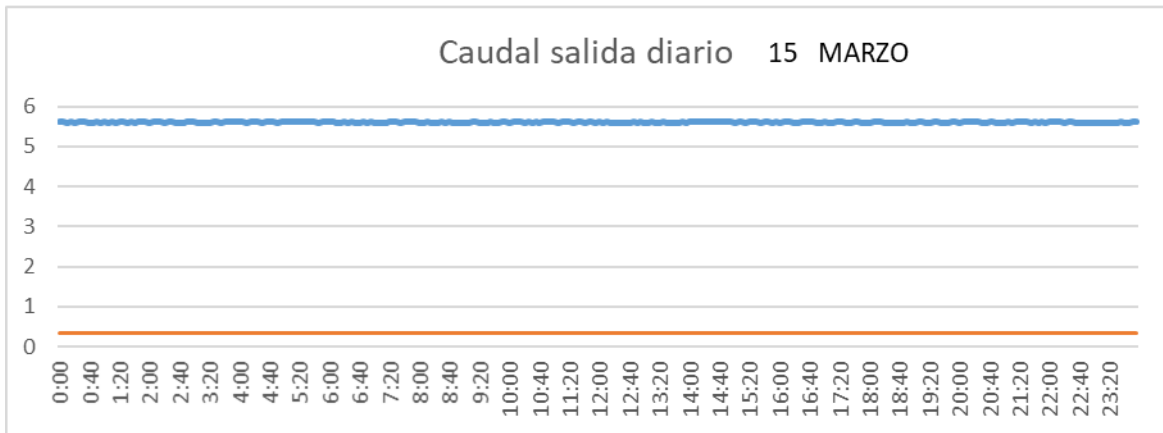
CUENCA



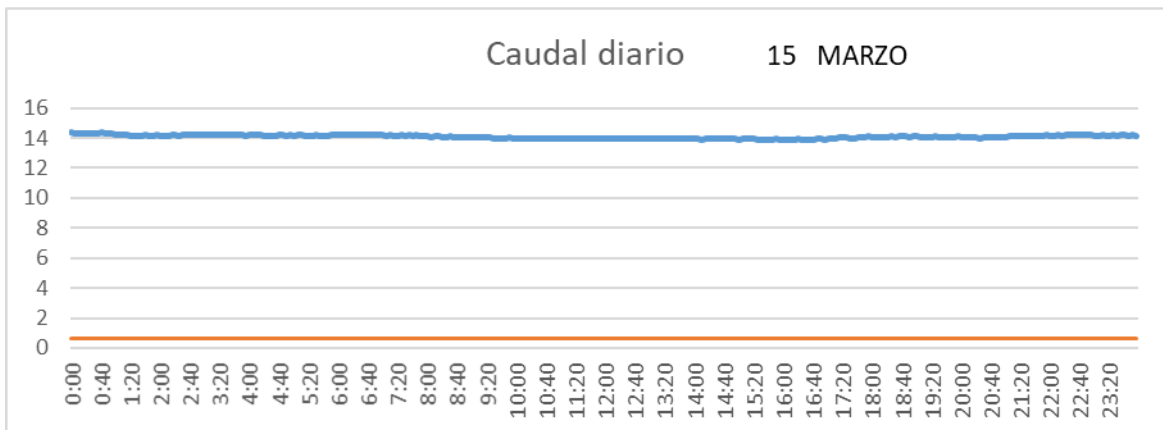
SAN LORENZO PARRILLA



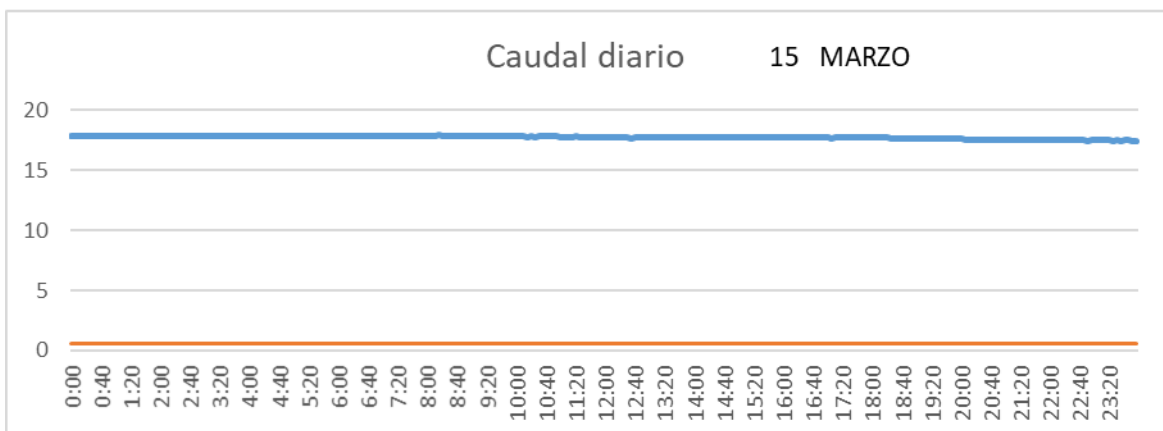
SALIDA TOBA



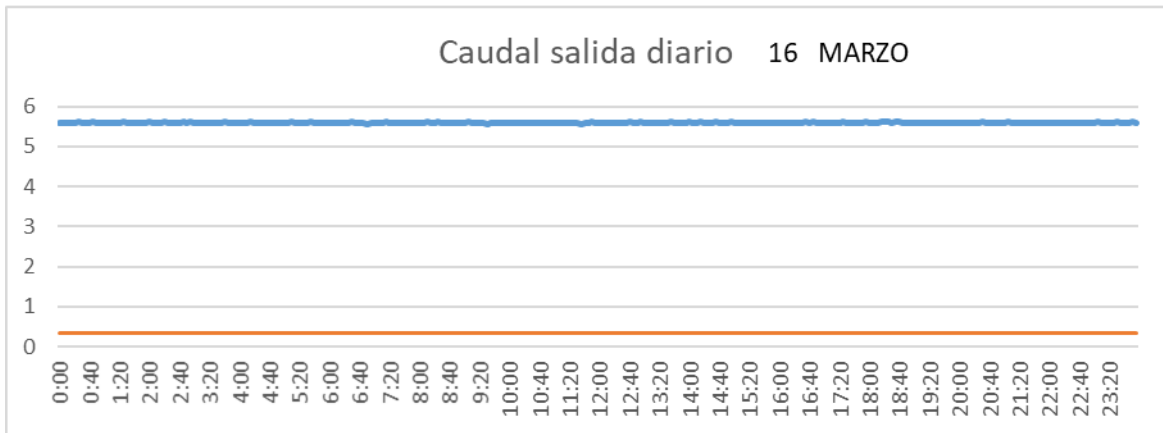
CUENCA



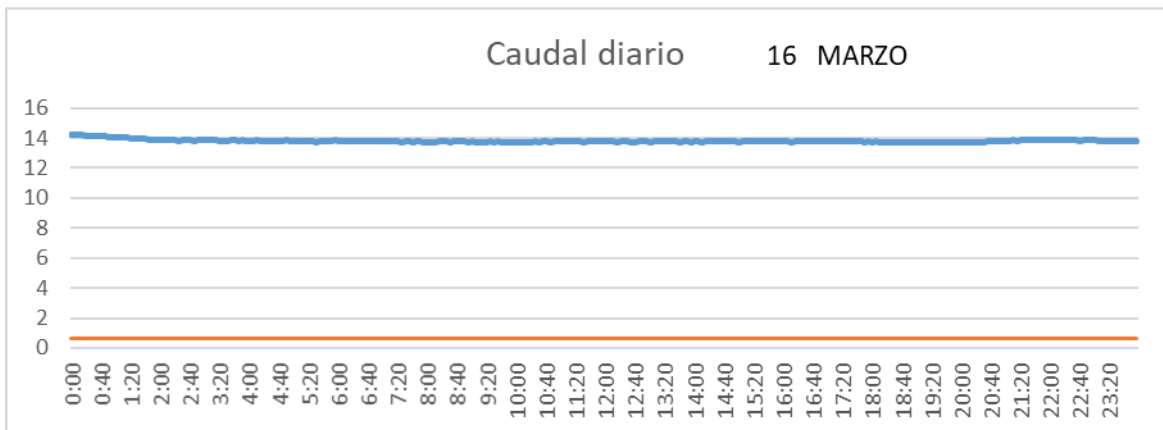
SAN LORENZO PARRILLA



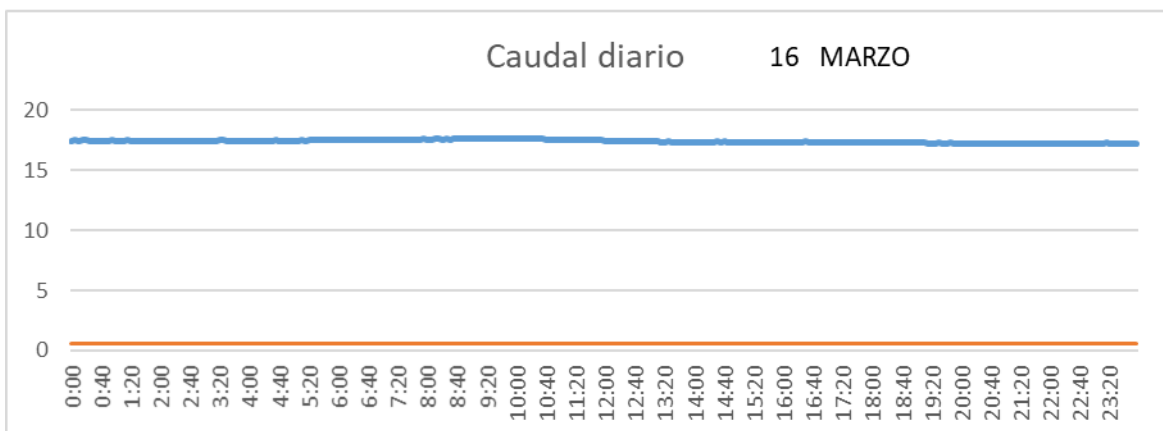
SALIDA TOBA



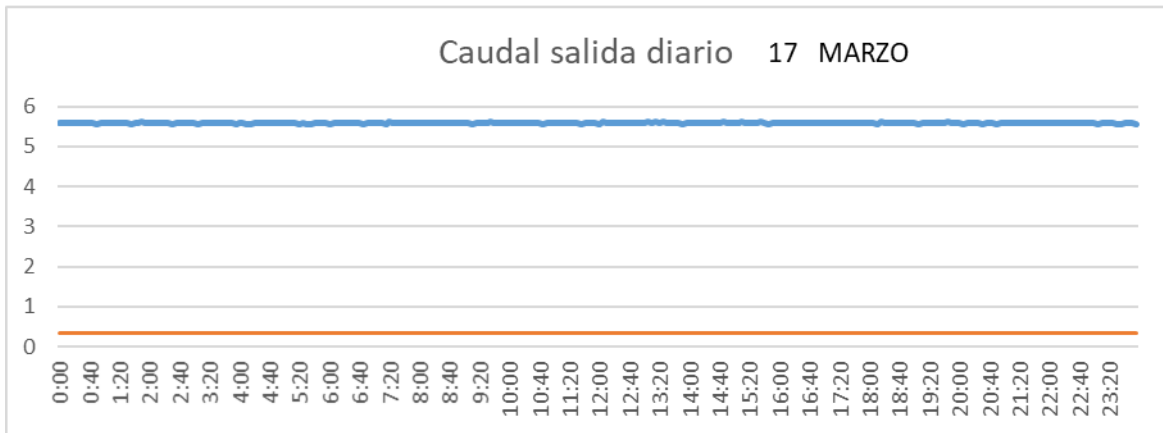
CUENCA



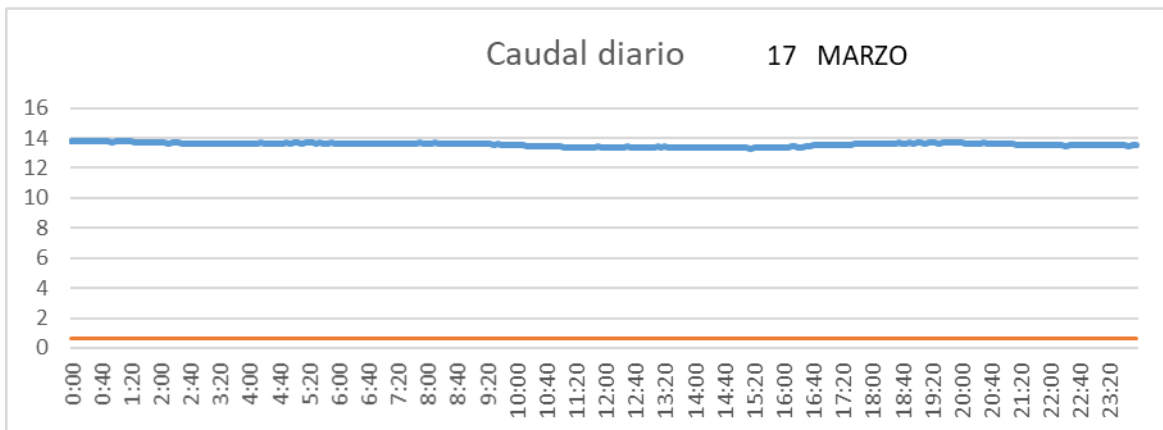
SAN LORENZO PARRILLA



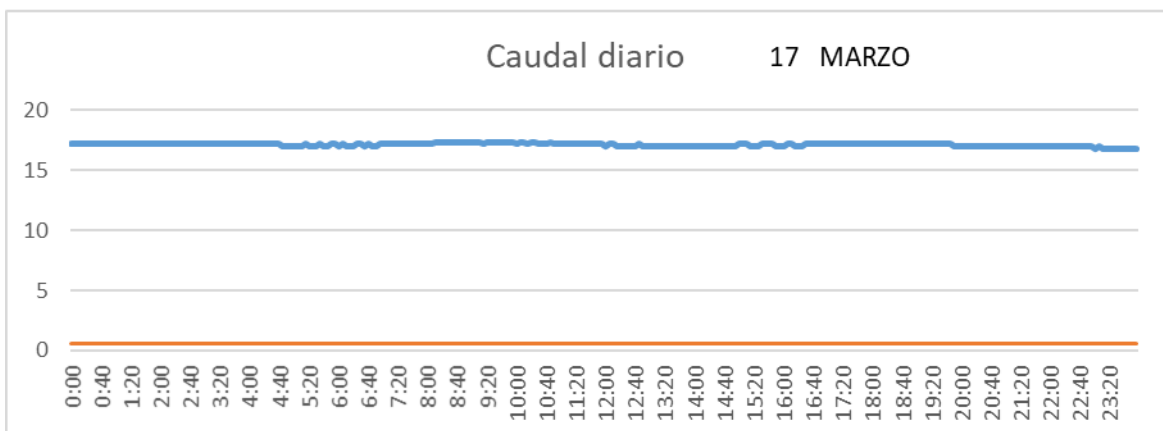
SALIDA TOBA



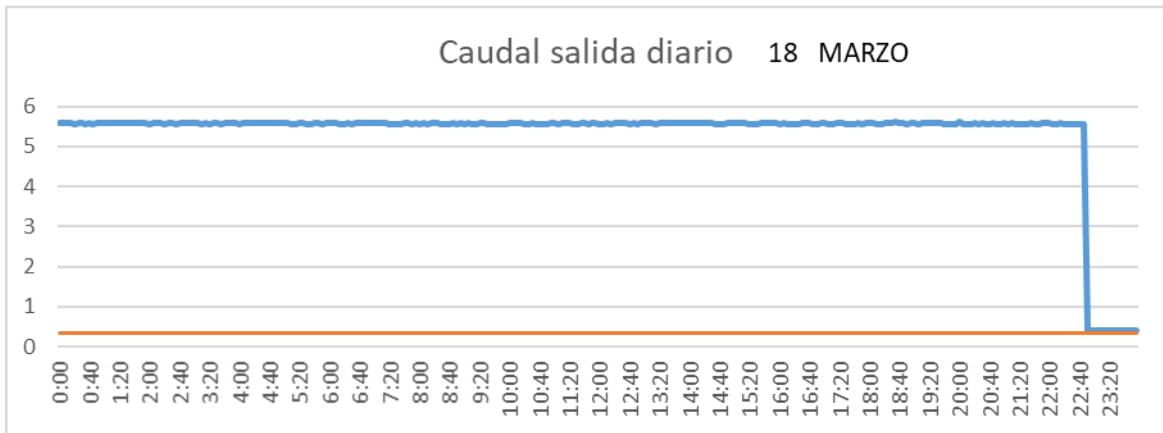
CUENCA



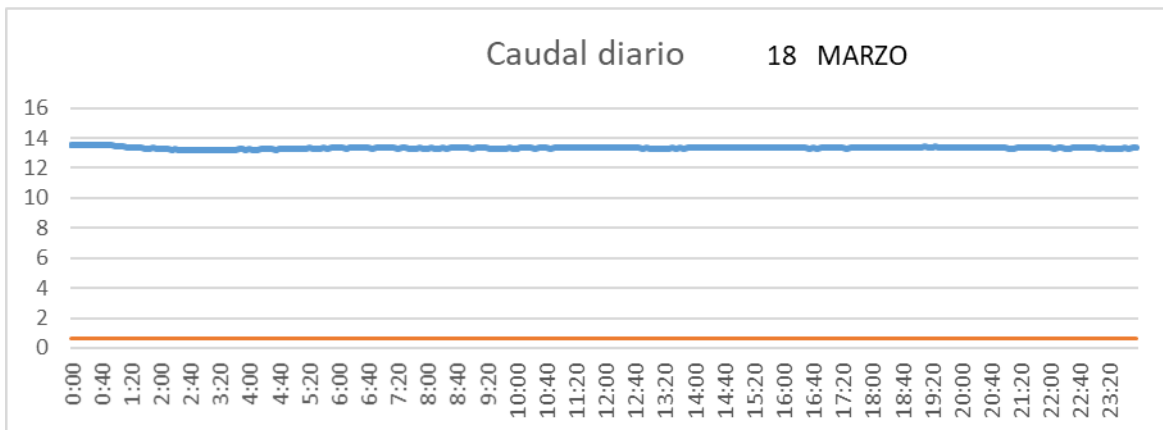
SAN LORENZO PARRILLA



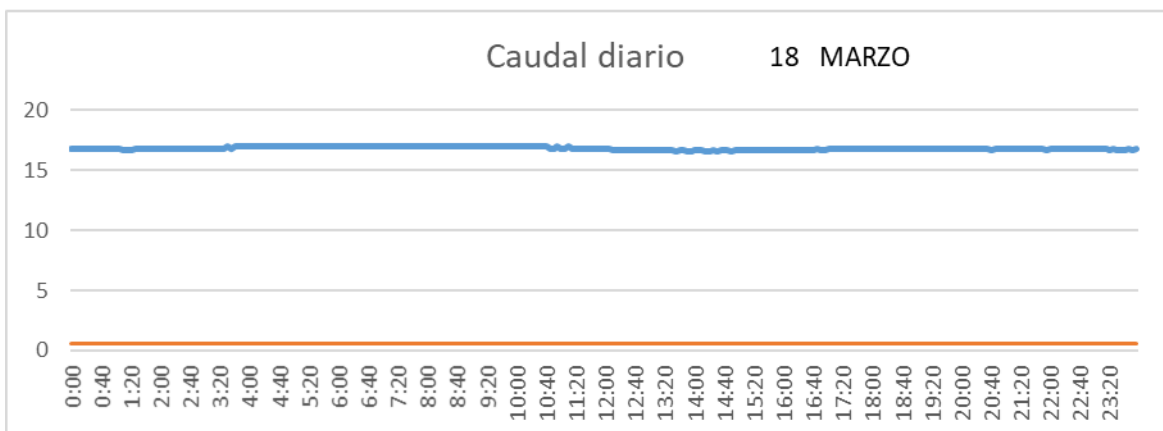
SALIDA TOBA



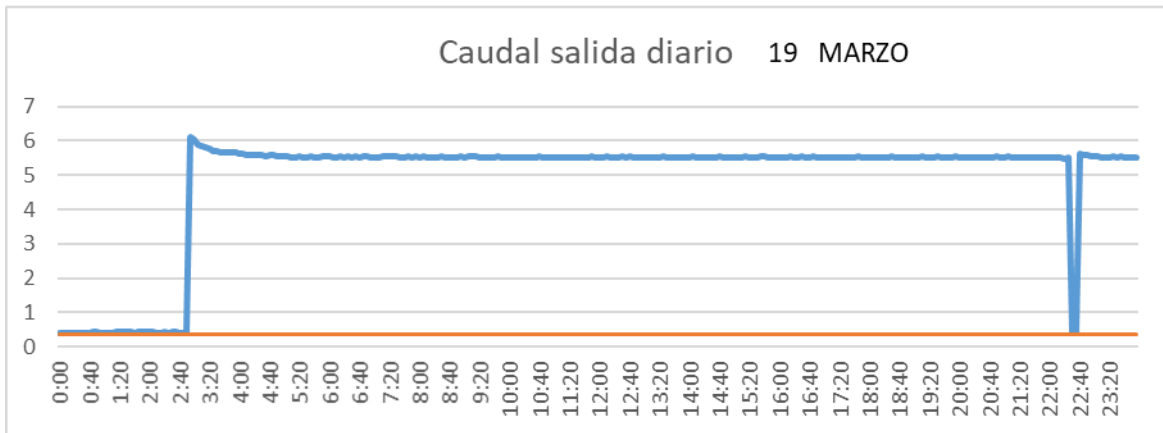
CUENCA



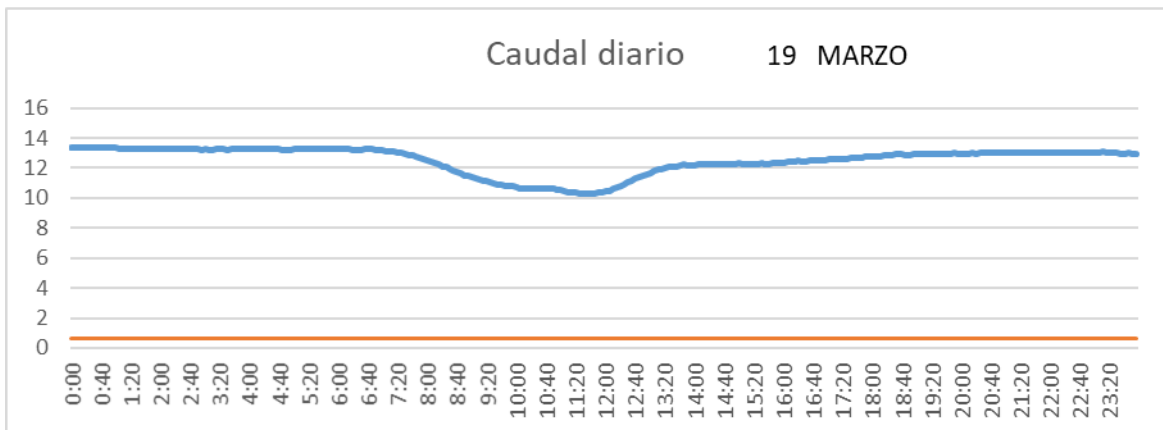
SAN LORENZO PARRILLA



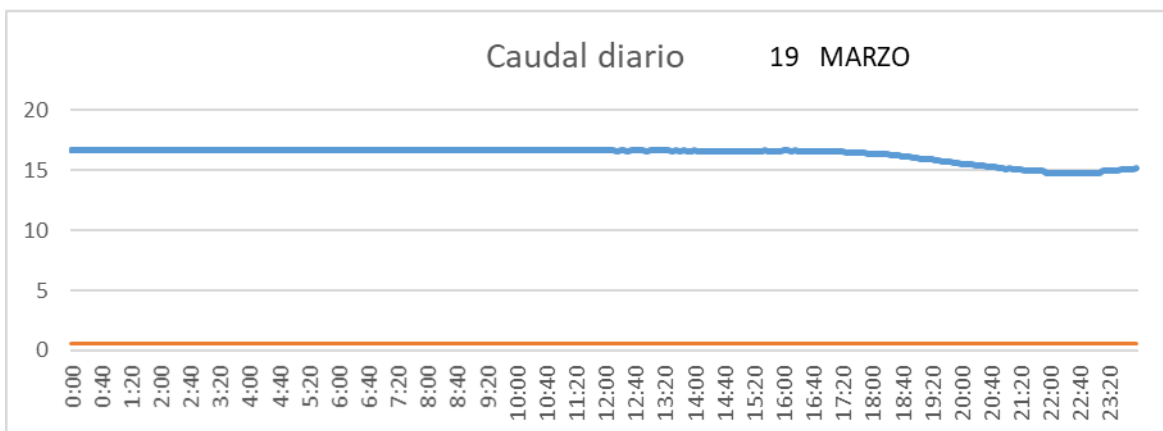
SALIDA TOBA



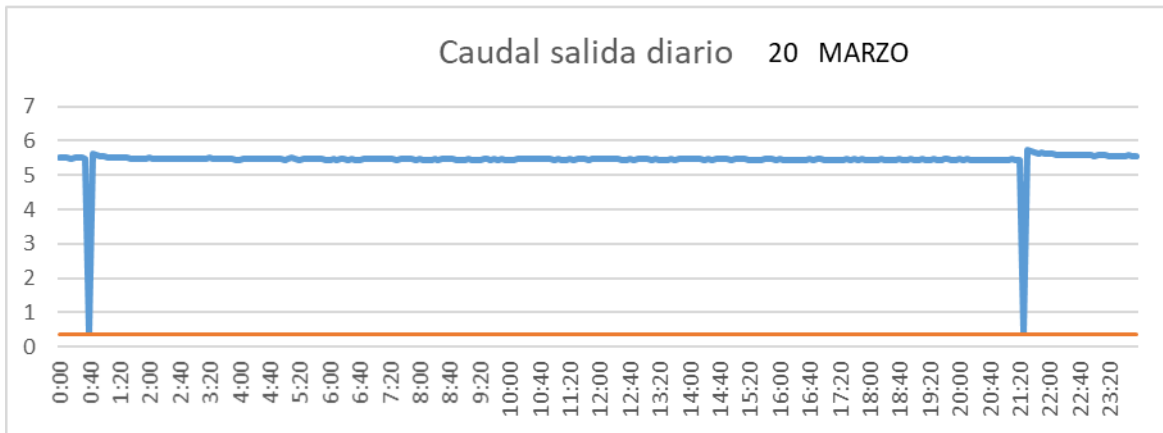
CUENCA



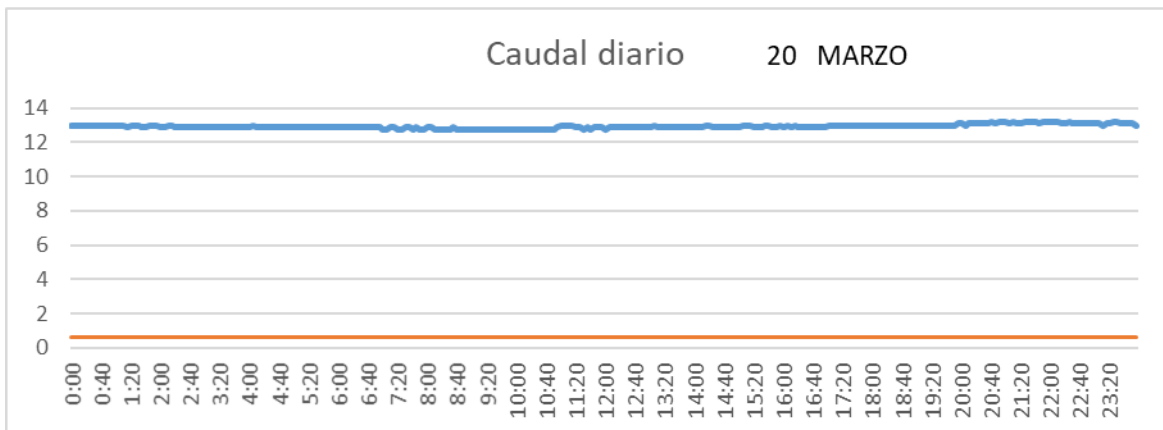
SAN LORENZO PARRILLA



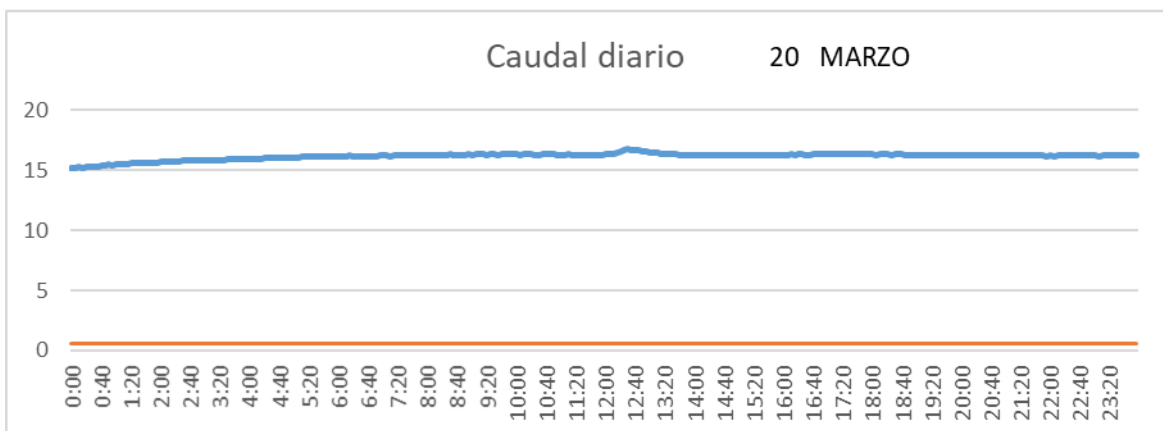
SALIDA TOBA



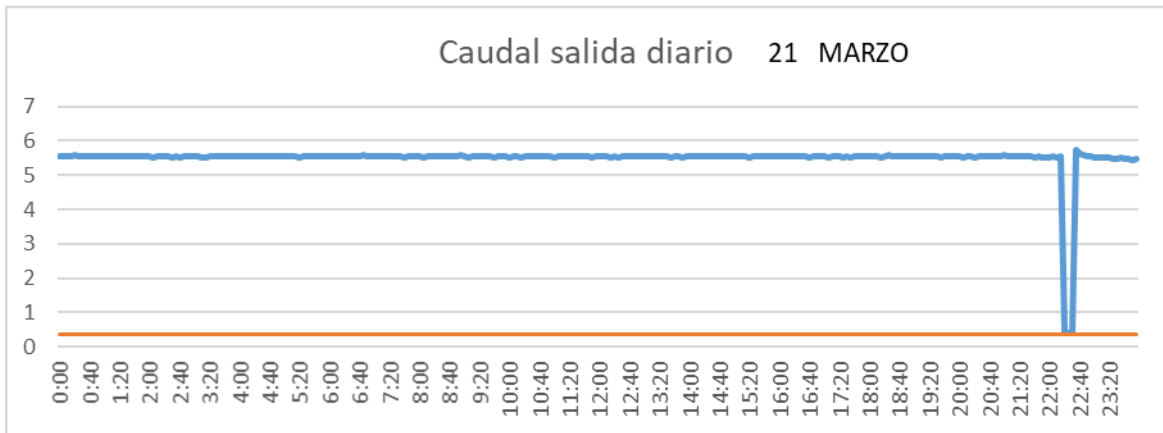
CUENCA



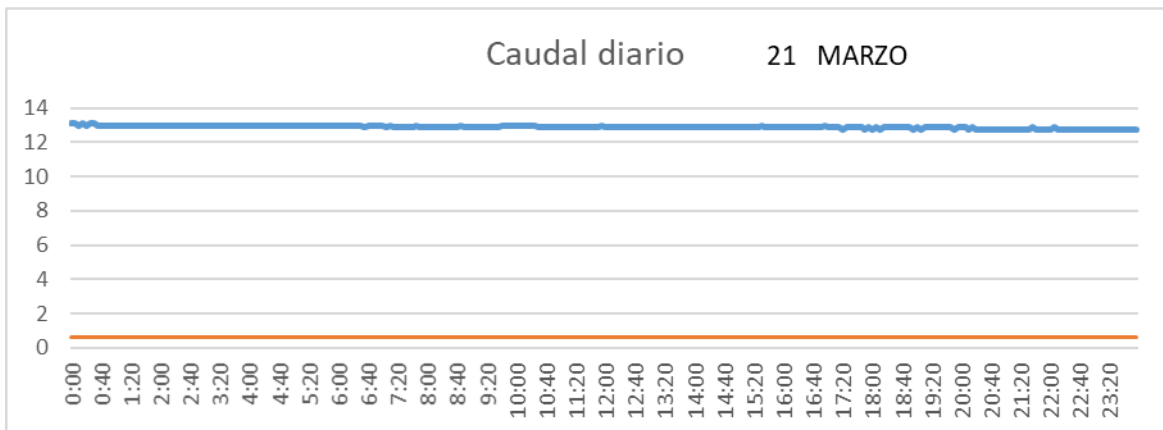
SAN LORENZO PARRILLA



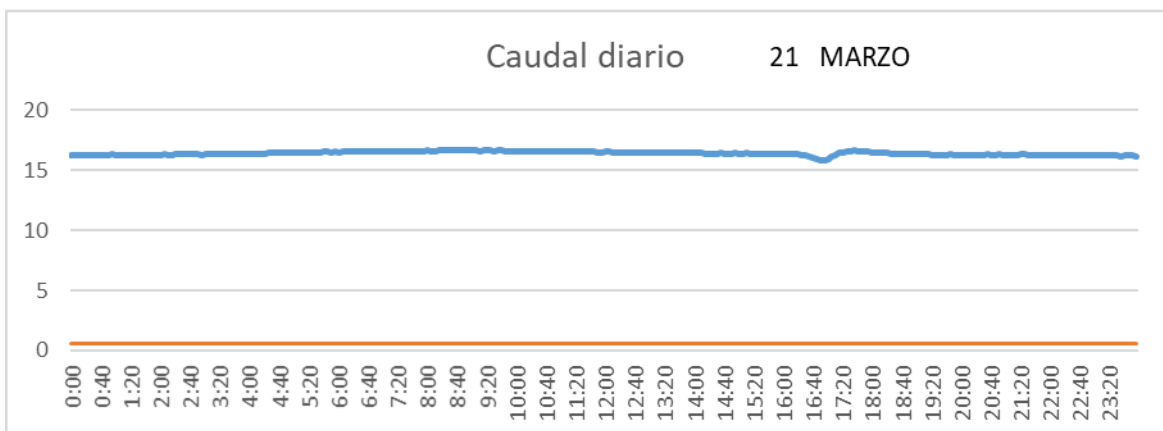
SALIDA TOBA



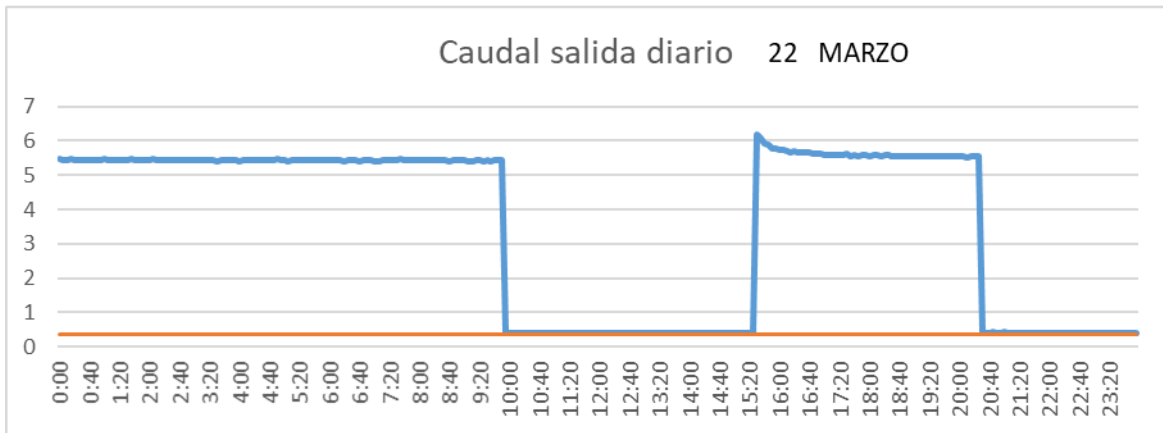
CUENCA



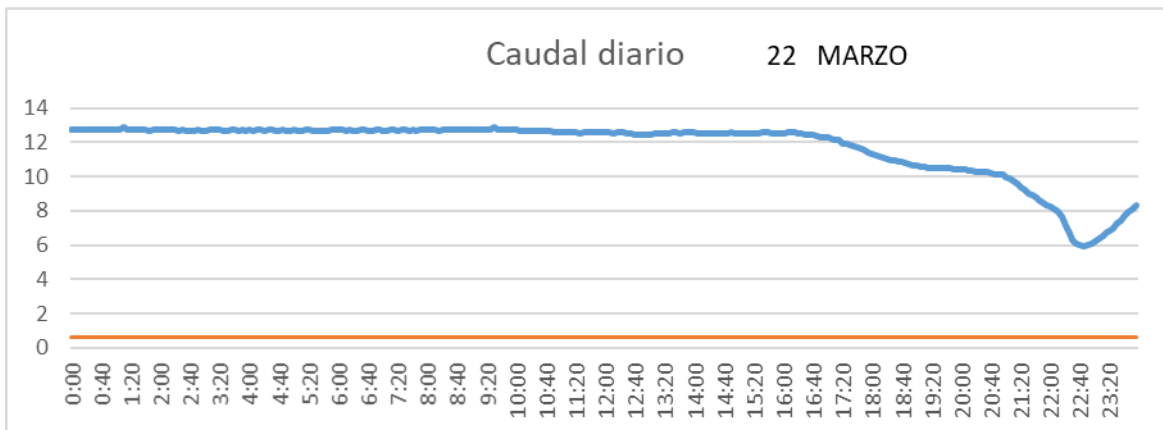
SAN LORENZO PARRILLA



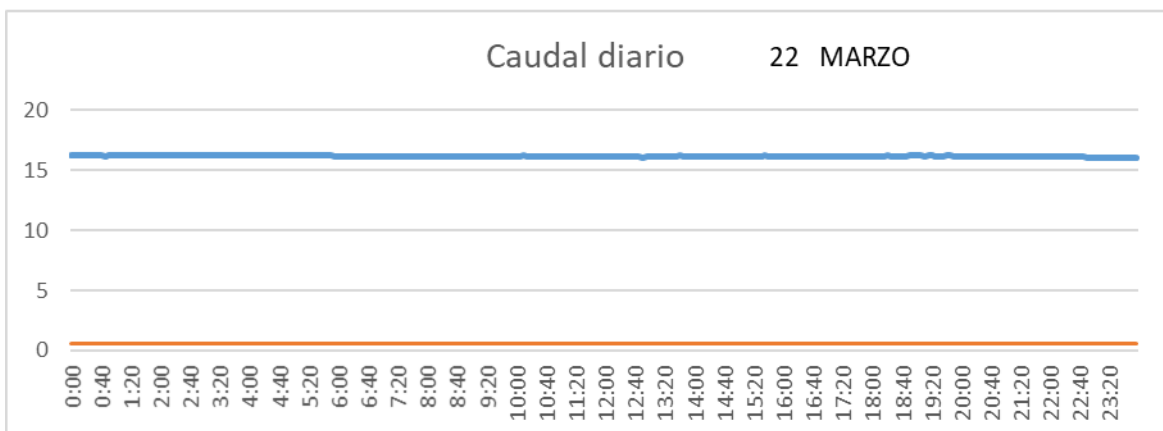
SALIDA TOBA



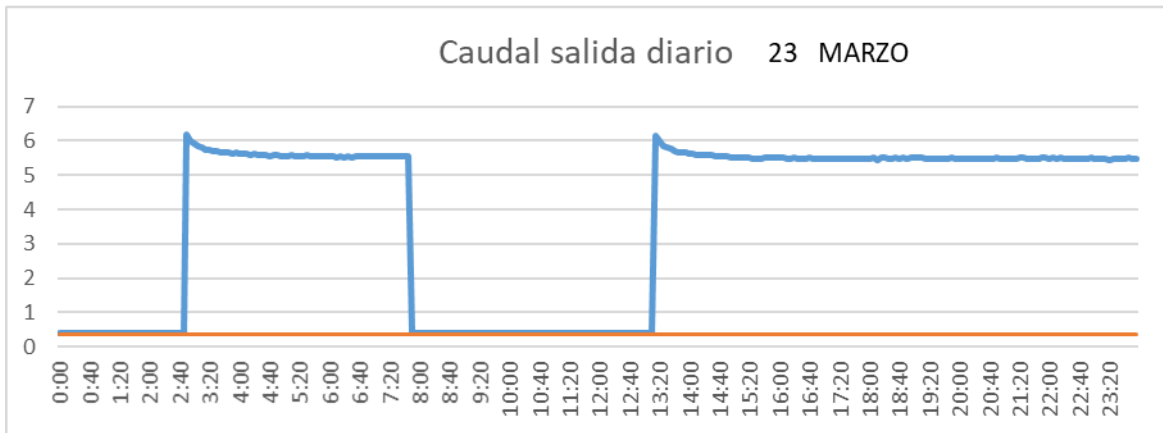
CUENCA



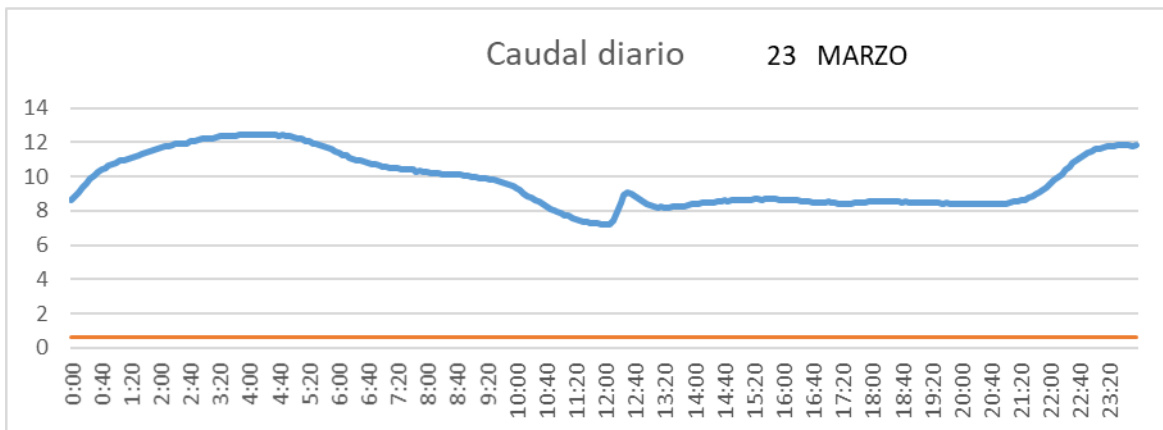
SAN LORENZO PARRILLA



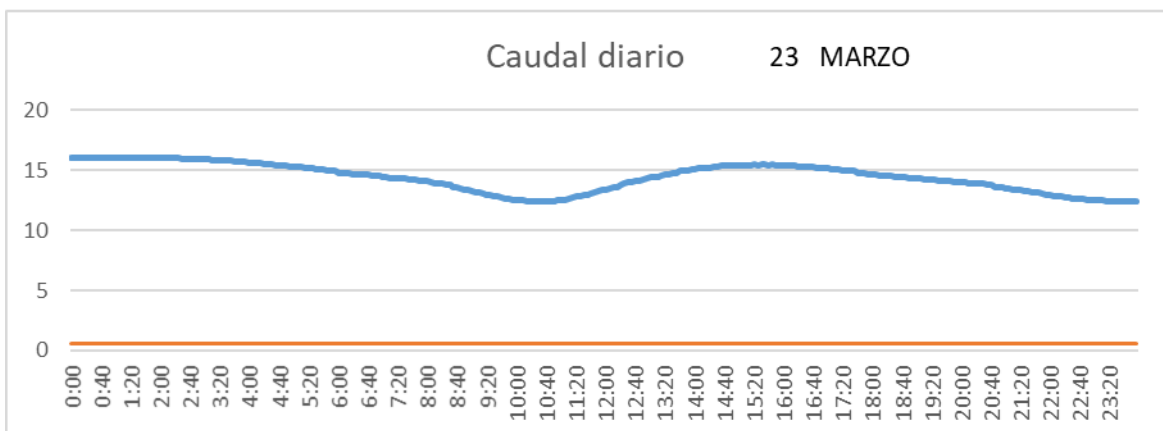
SALIDA TOBA



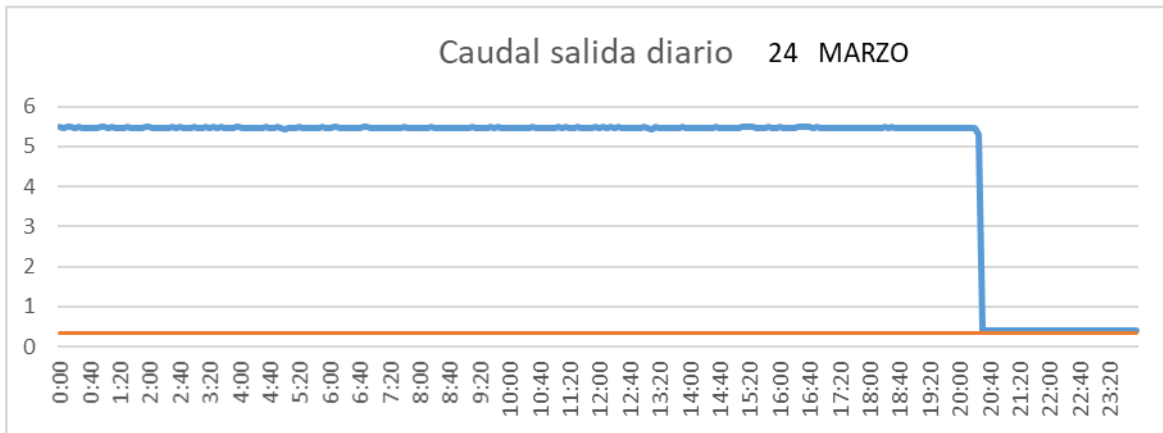
CUENCA



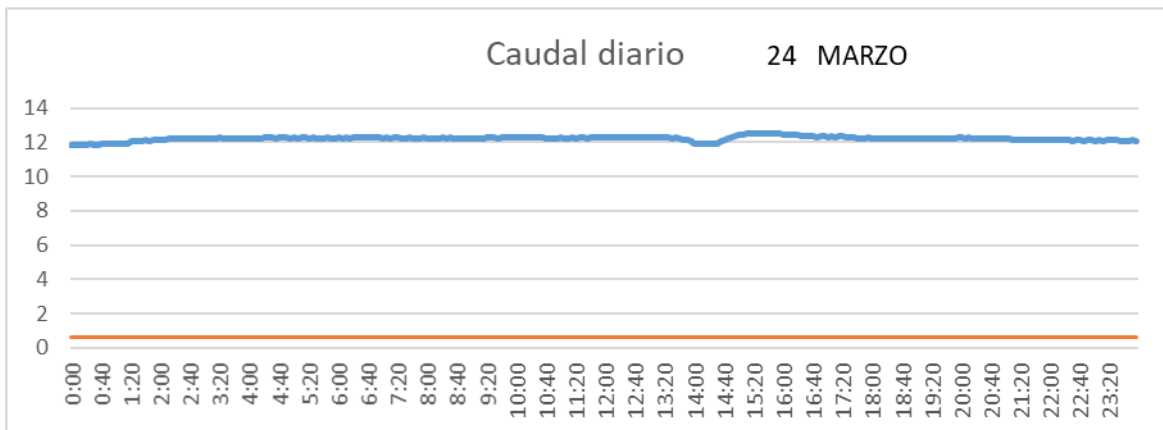
SAN LORENZO PARRILLA



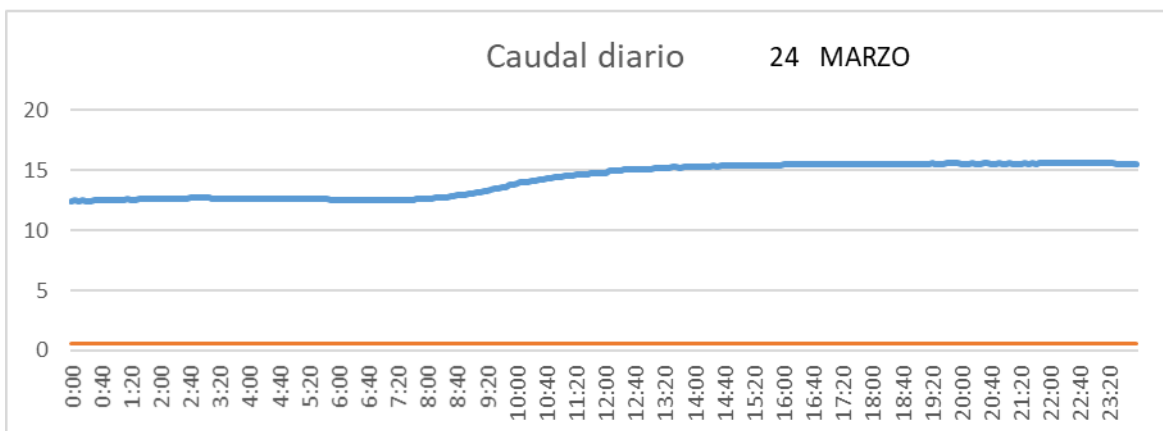
SALIDA TOBA



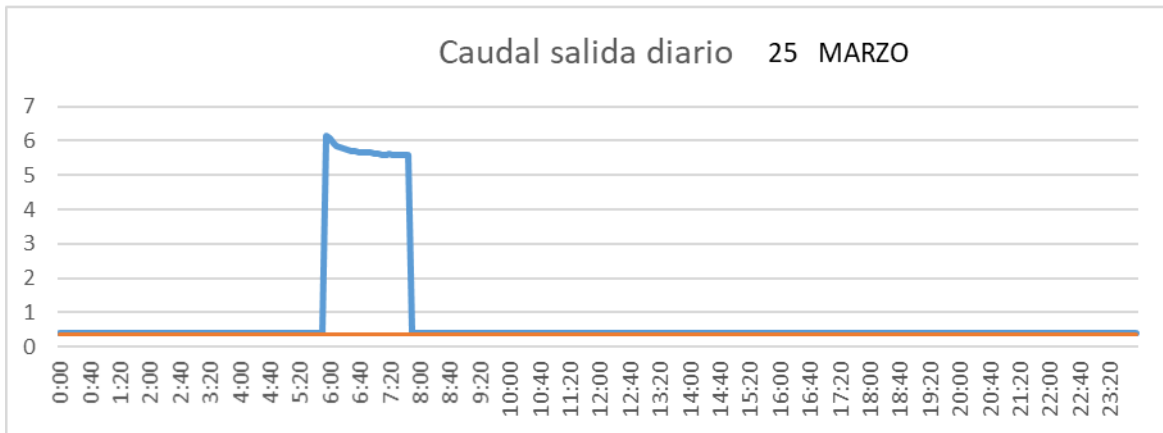
CUENCA



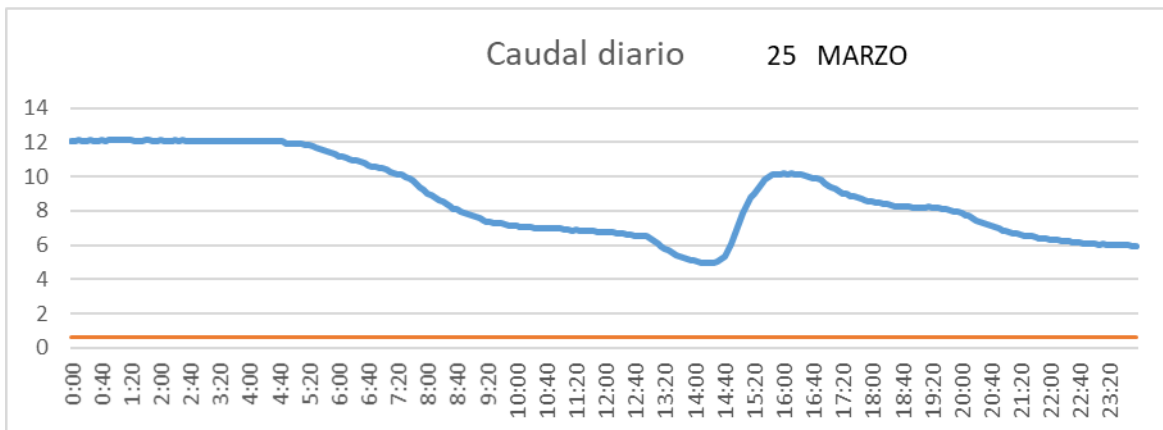
SAN LORENZO PARRILLA



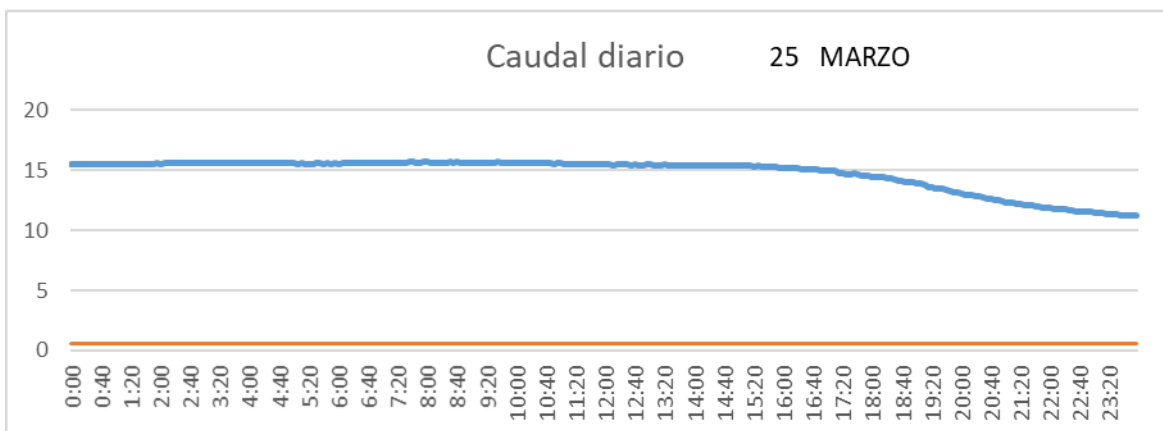
SALIDA TOBA



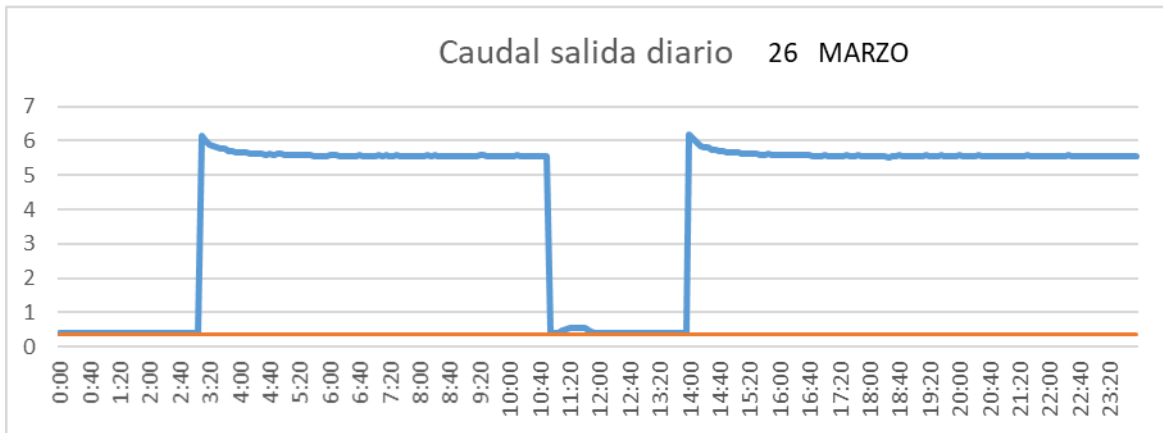
CUENCA



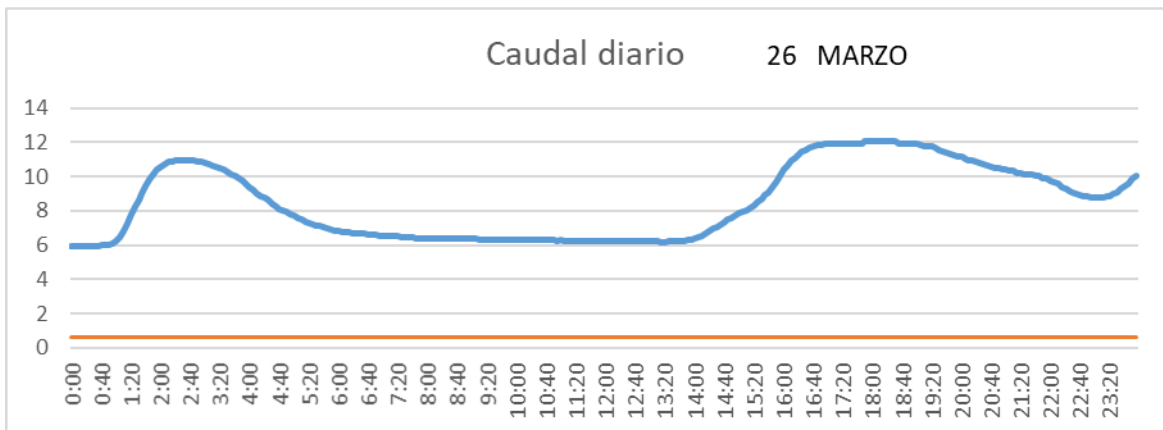
SAN LORENZO PARRILLA



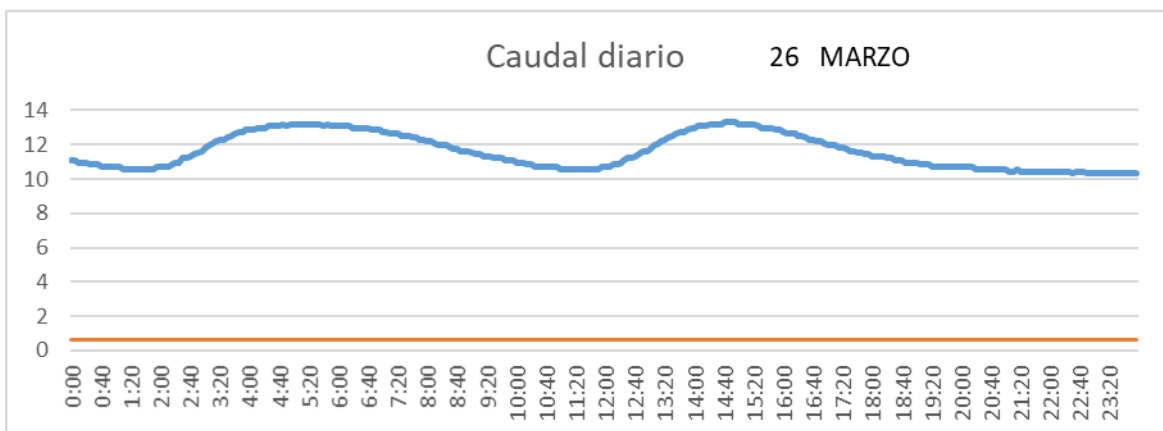
SALIDA TOBA



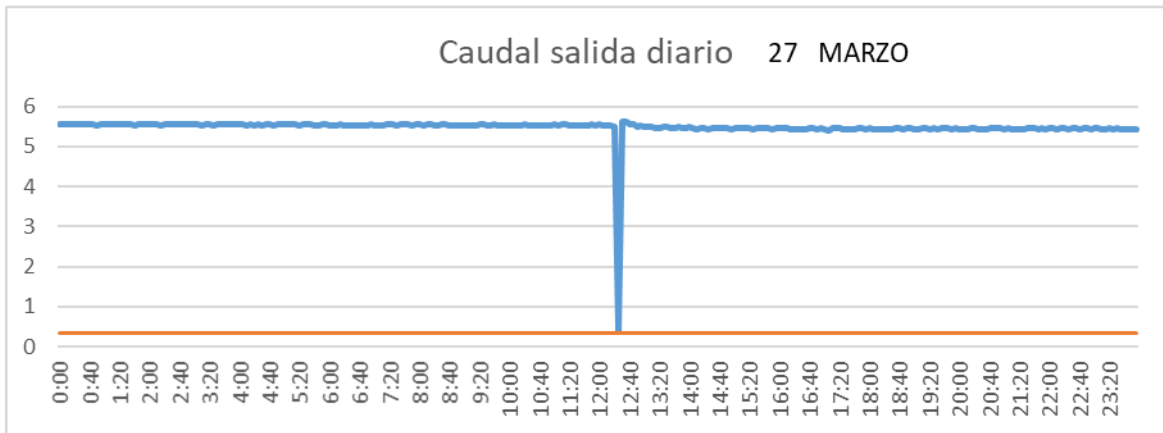
CUENCA



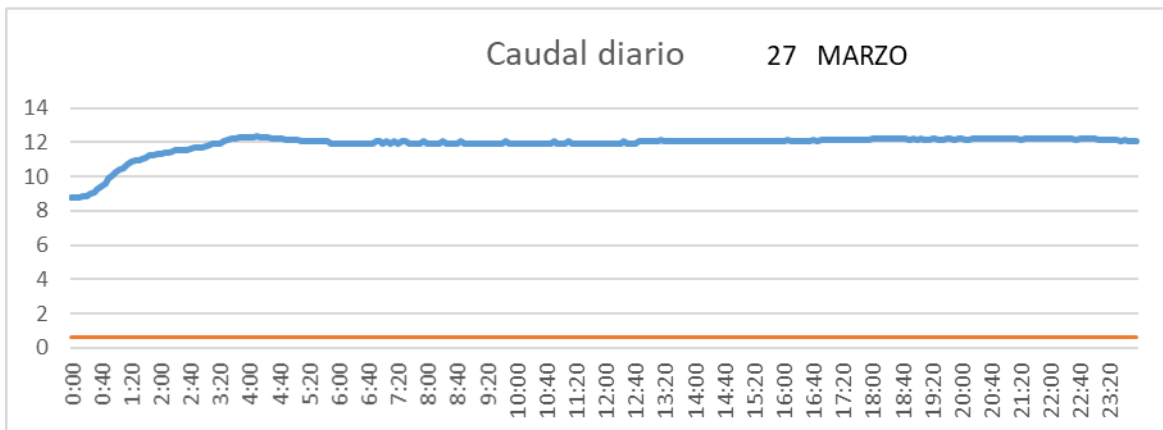
SAN LORENZO PARRILLA



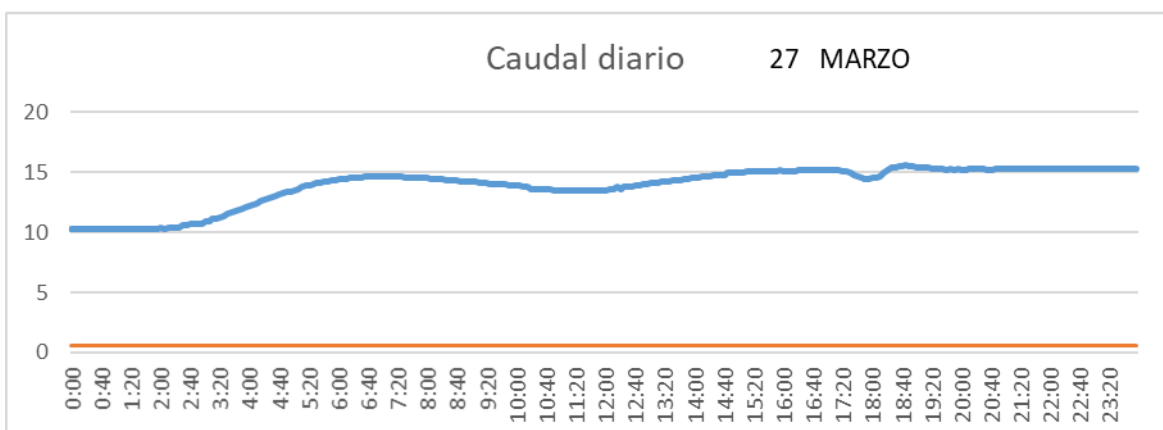
SALIDA TOBA



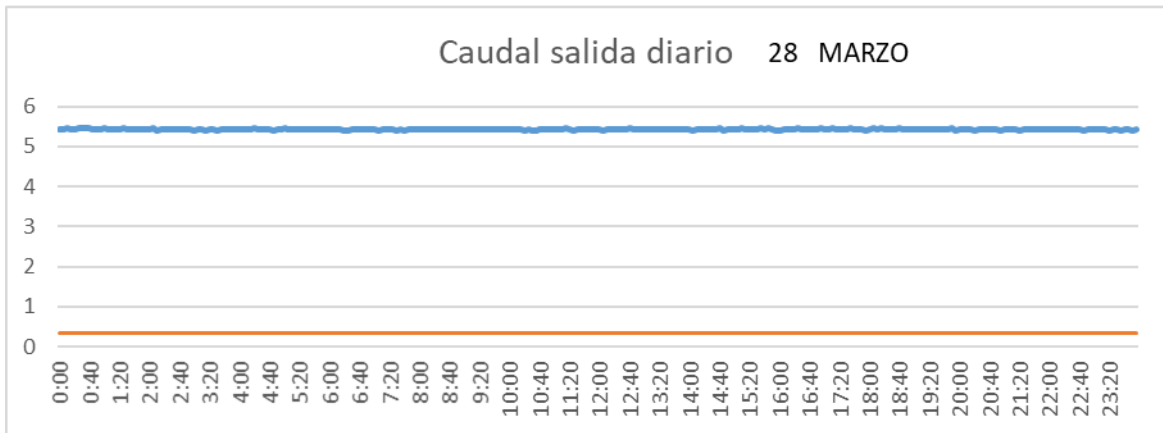
CUENCA



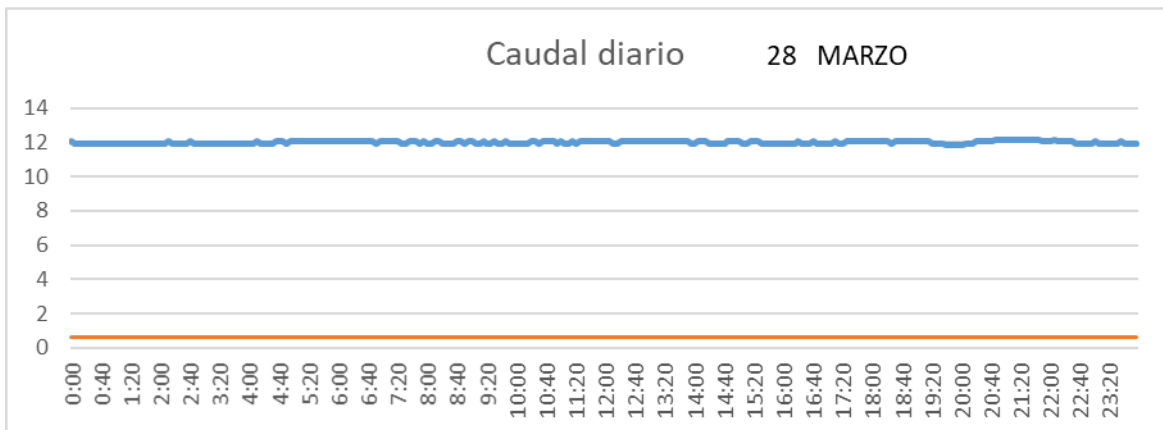
SAN LORENZO PARRILLA



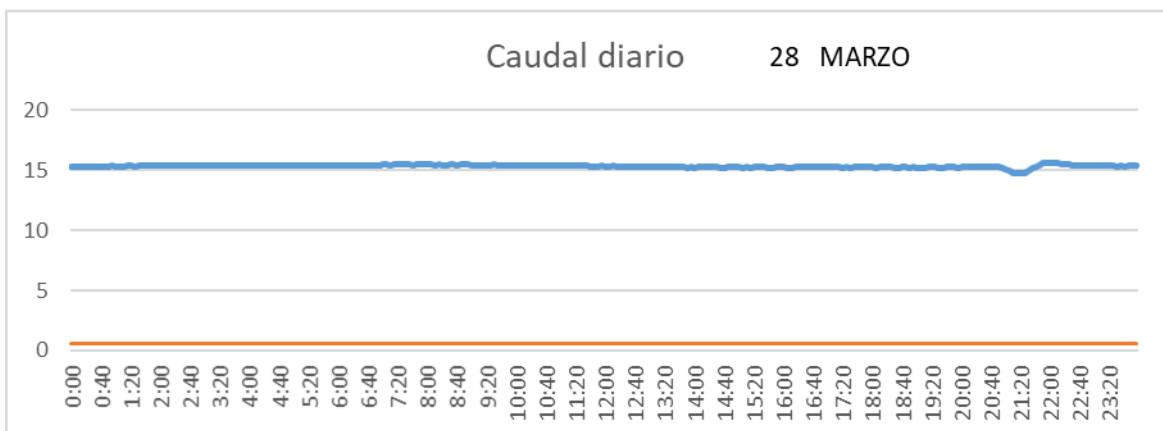
SALIDA TOBA



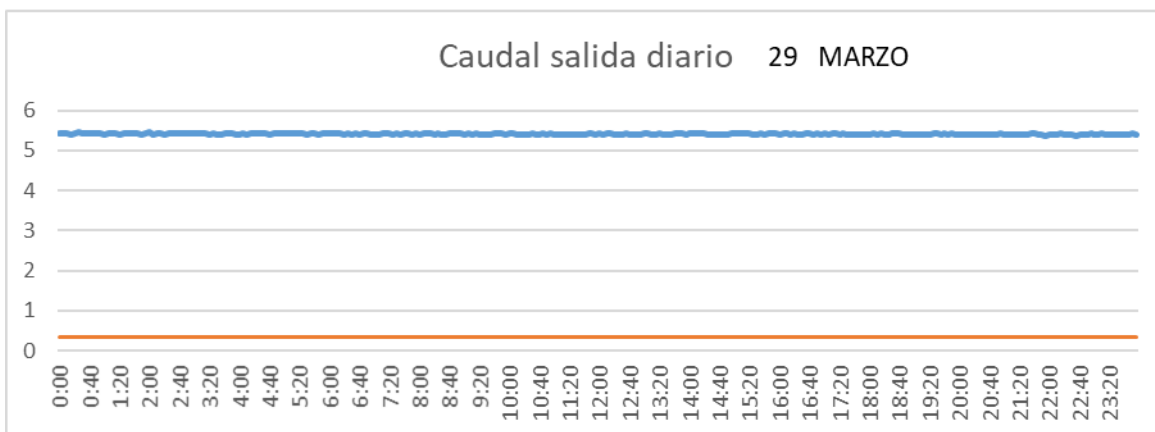
CUENCA



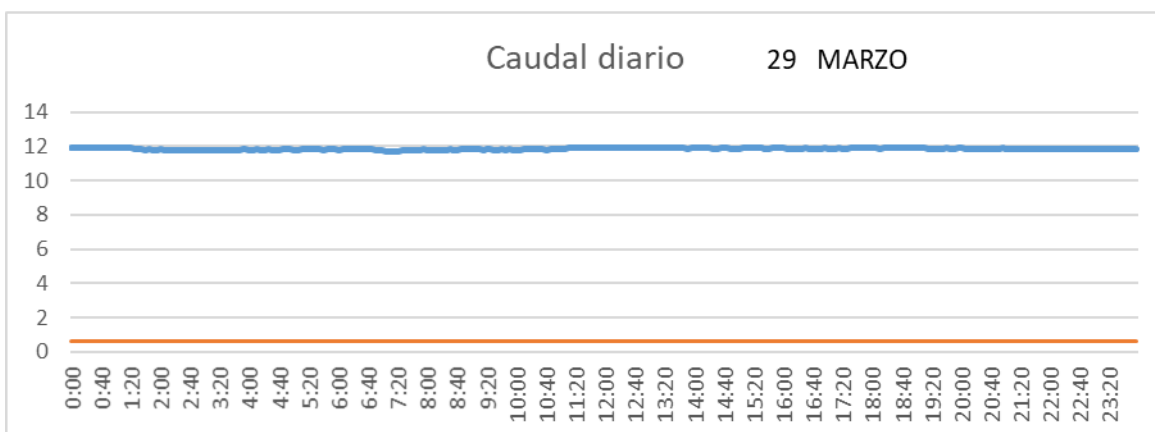
SAN LORENZO PARRILLA



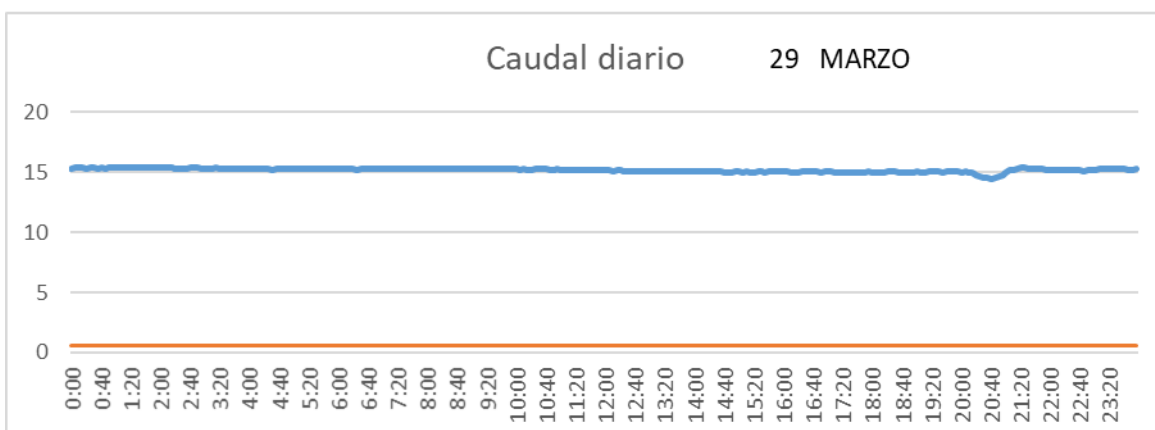
SALIDA TOBA



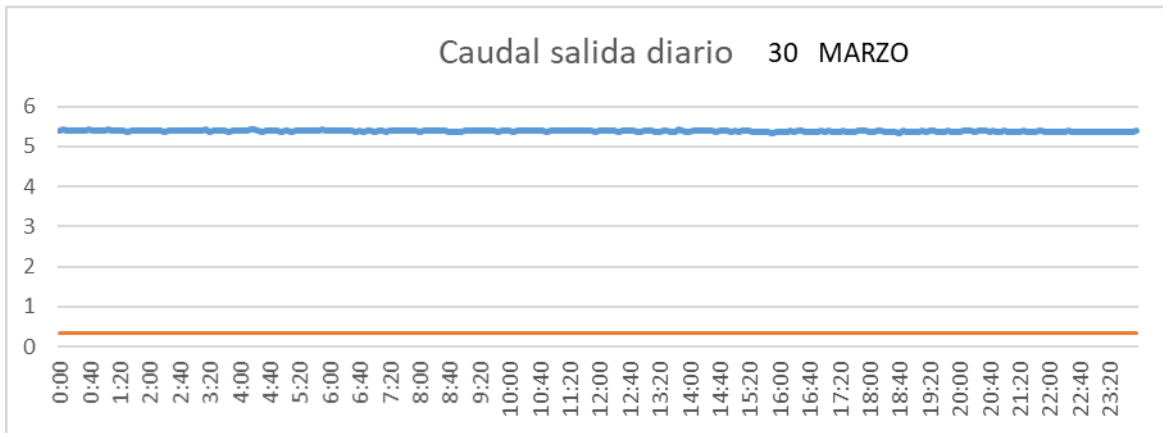
CUENCA



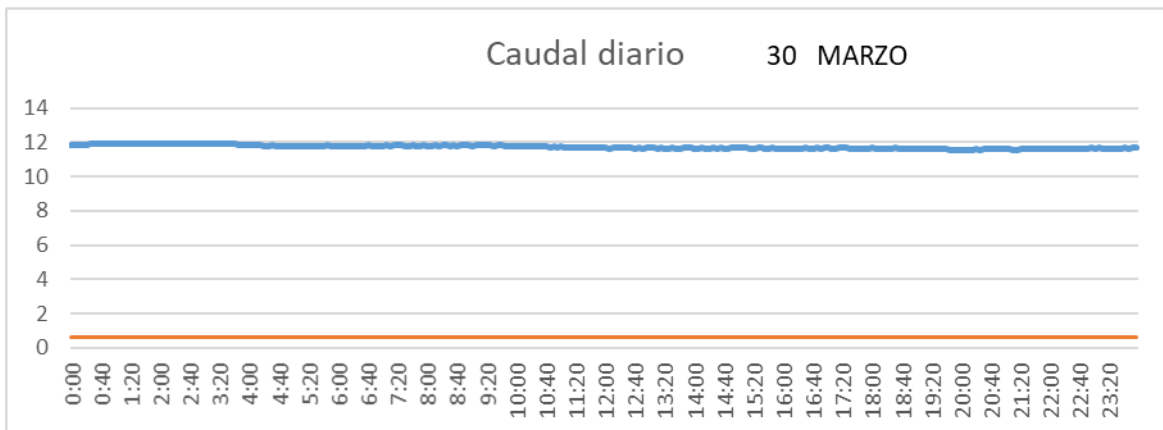
SAN LORENZO PARRILLA



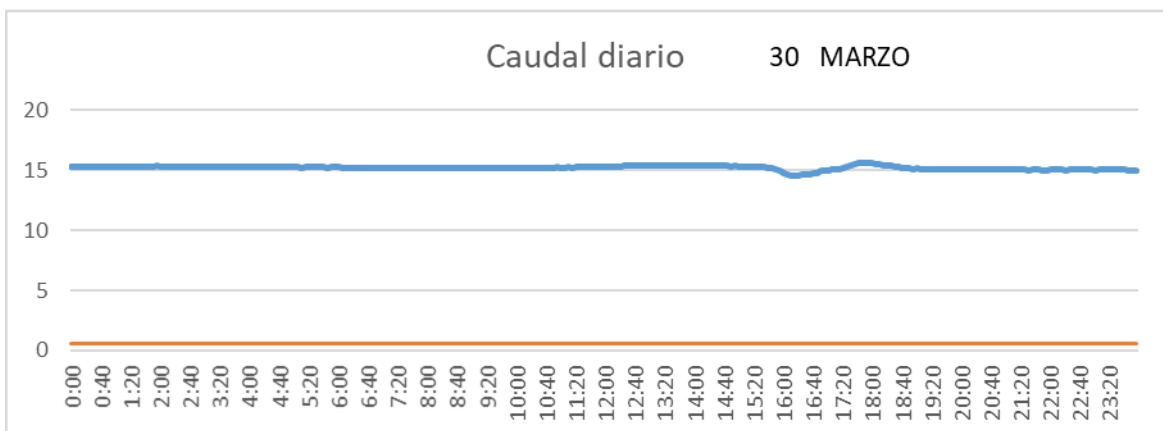
SALIDA TOBA



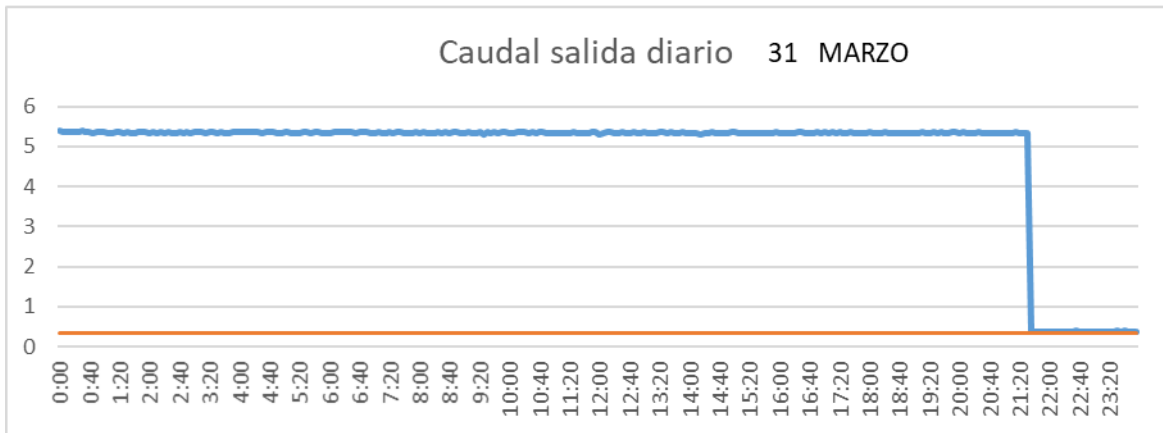
CUENCA



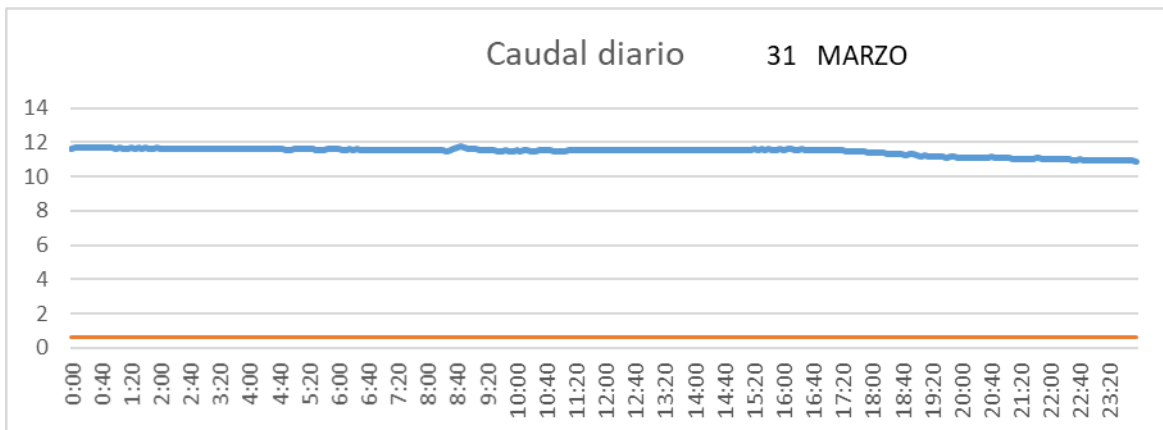
SAN LORENZO PARRILLA



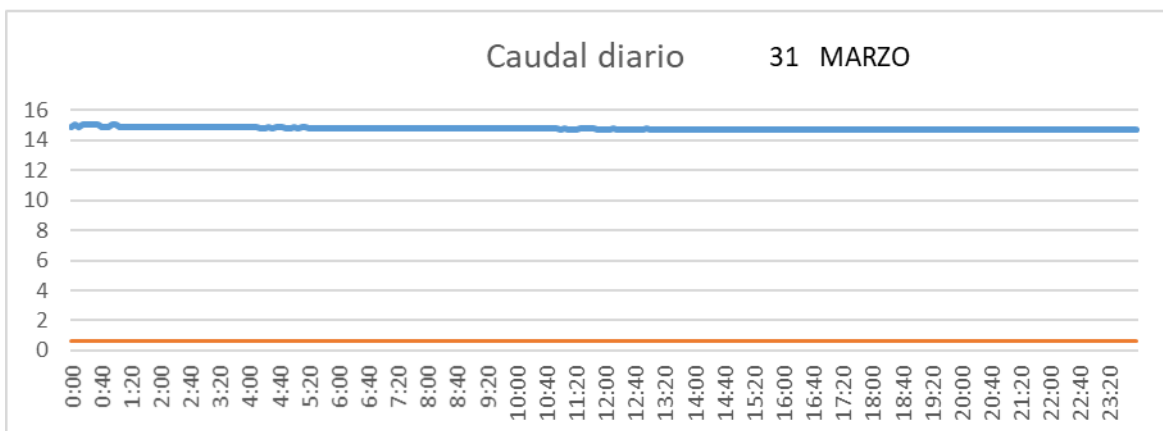
SALIDA TOBA



CUENCA

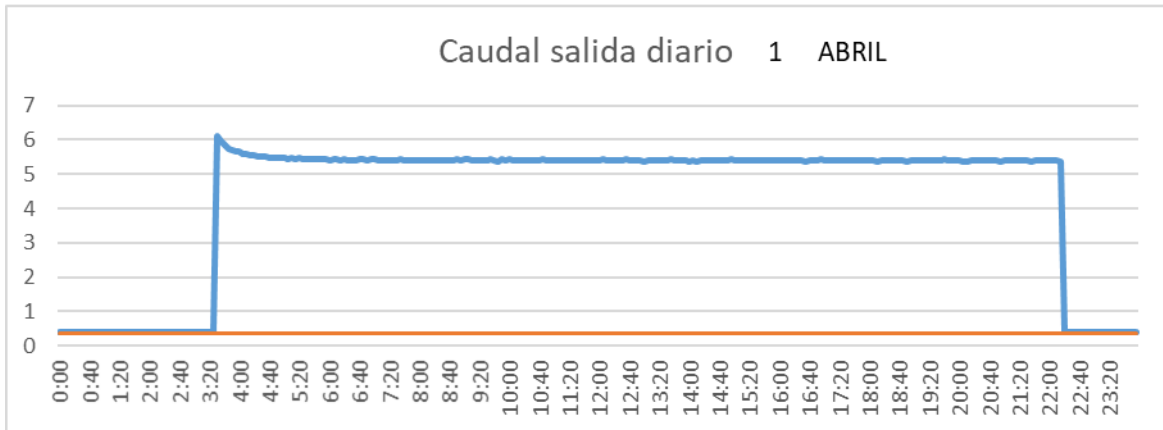


SAN LORENZO PARRILLA

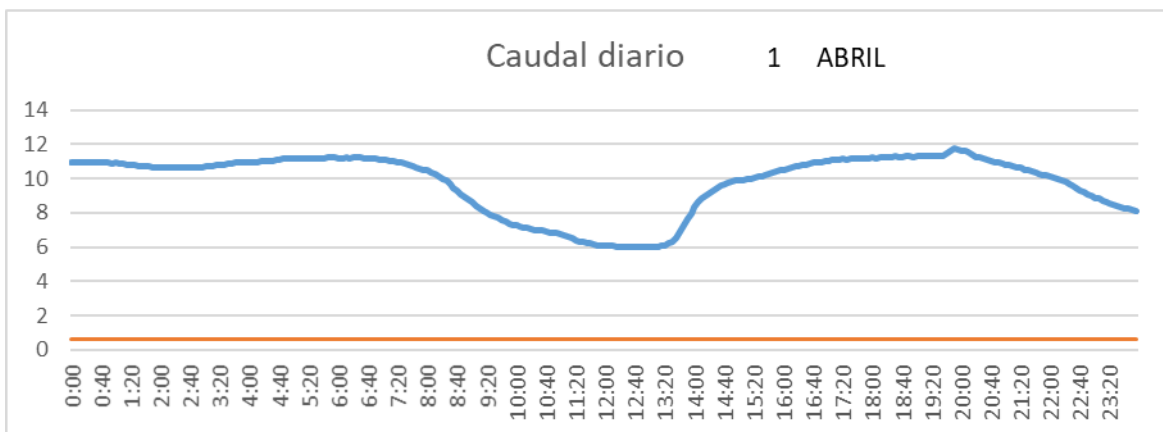


2.1.4 Abril

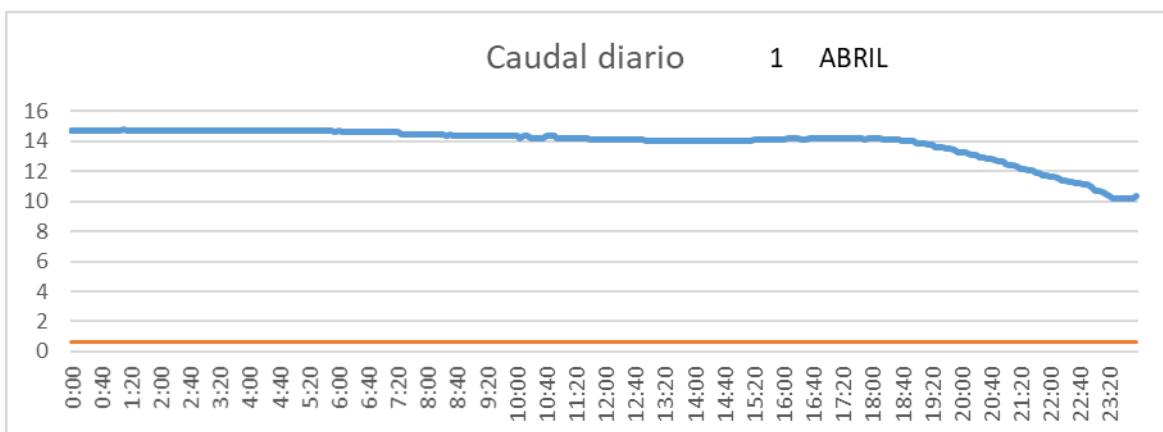
SALIDA TOBA



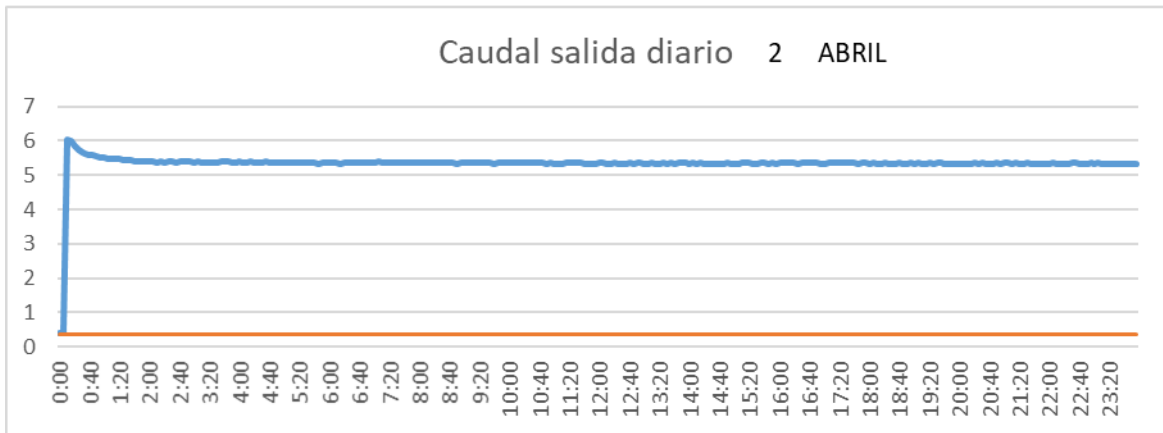
CUENCA



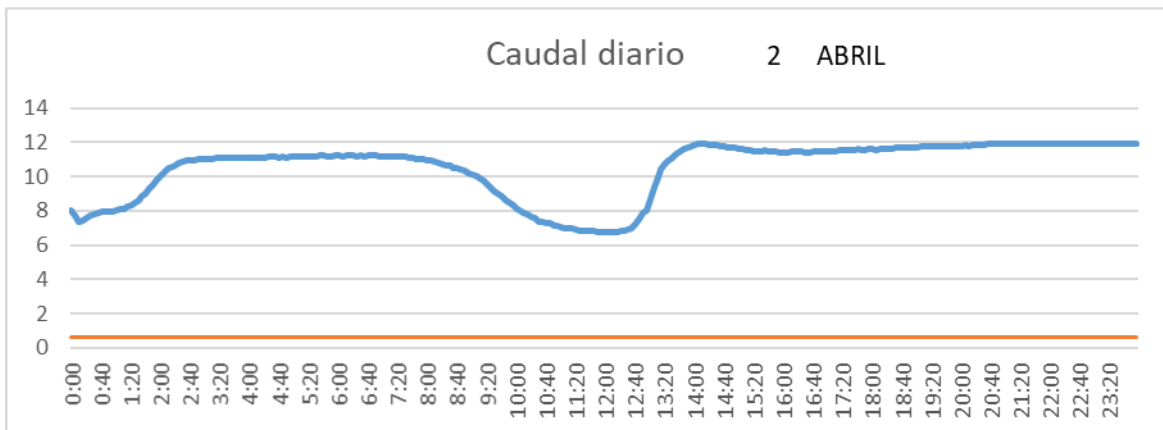
SAN LORENZO PARRILLA



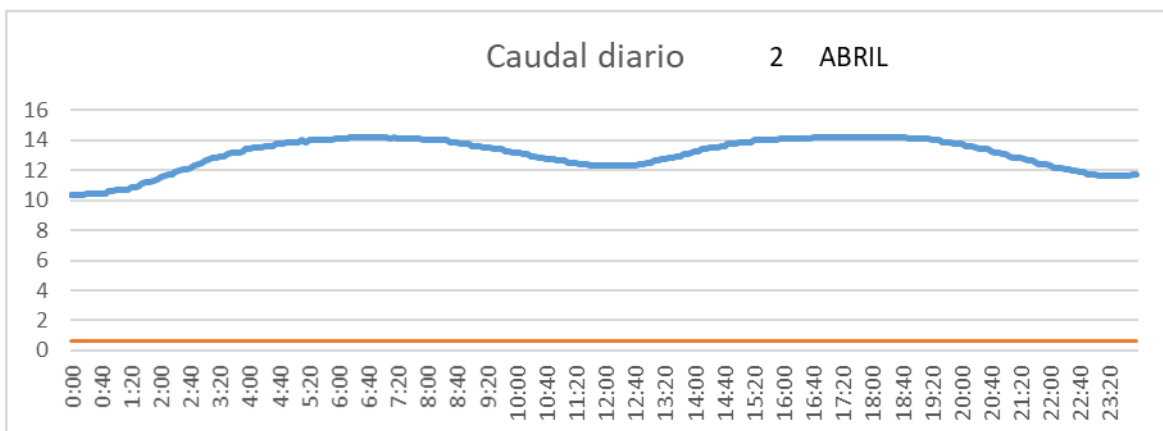
SALIDA TOBA



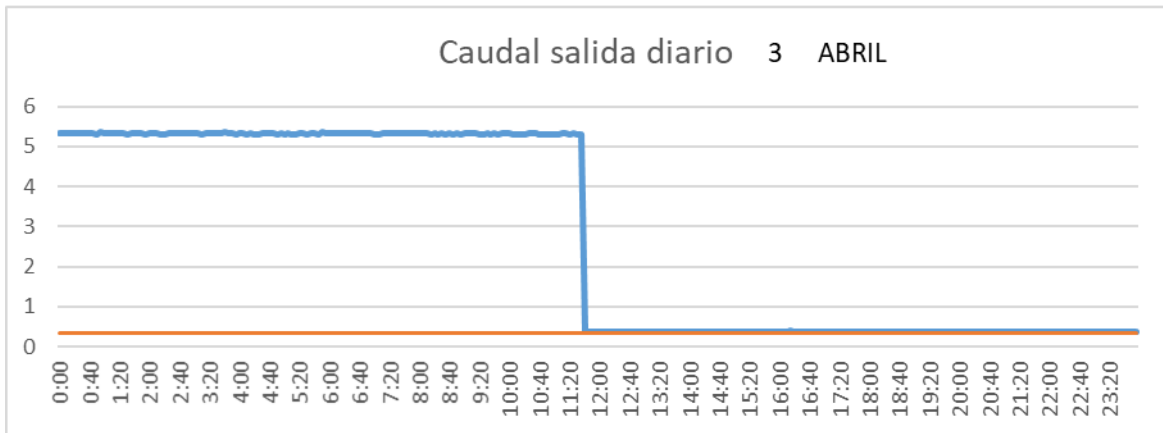
CUENCA



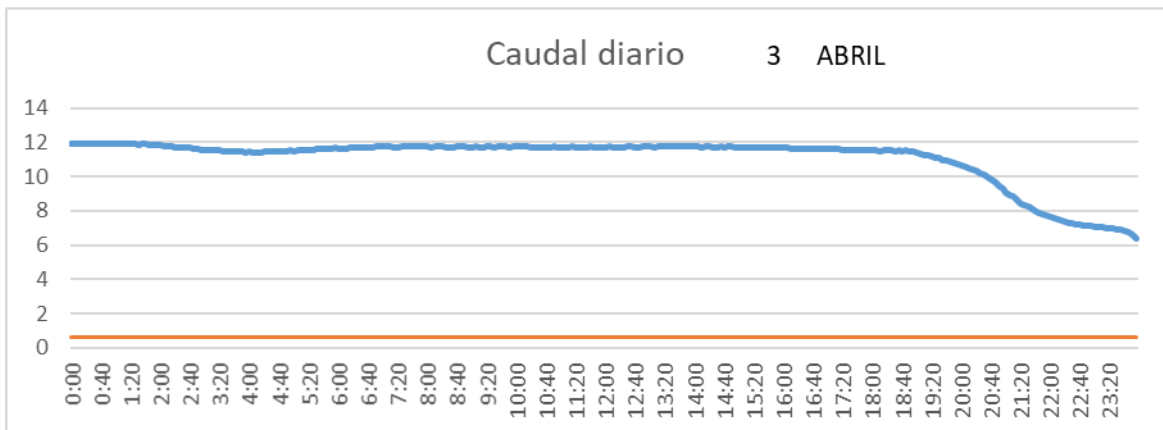
SAN LORENZO PARRILLA



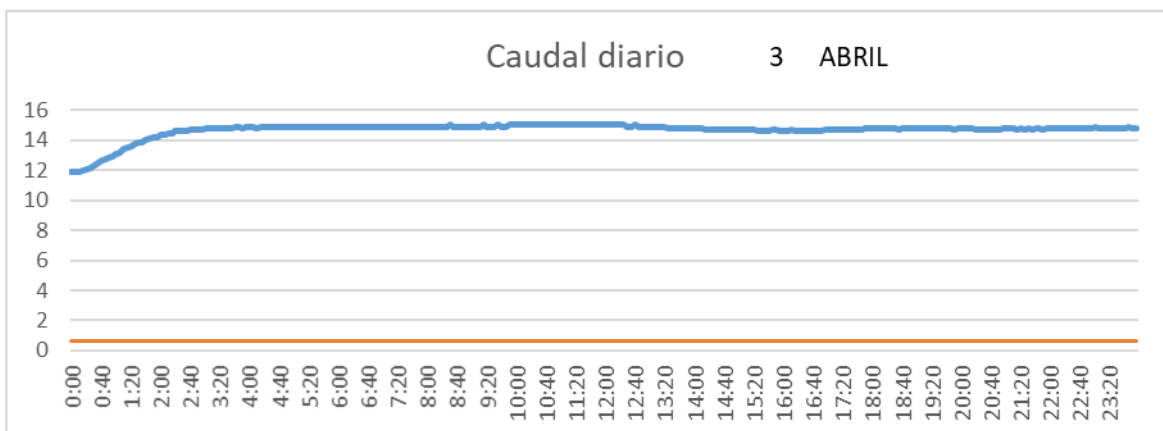
SALIDA TOBA



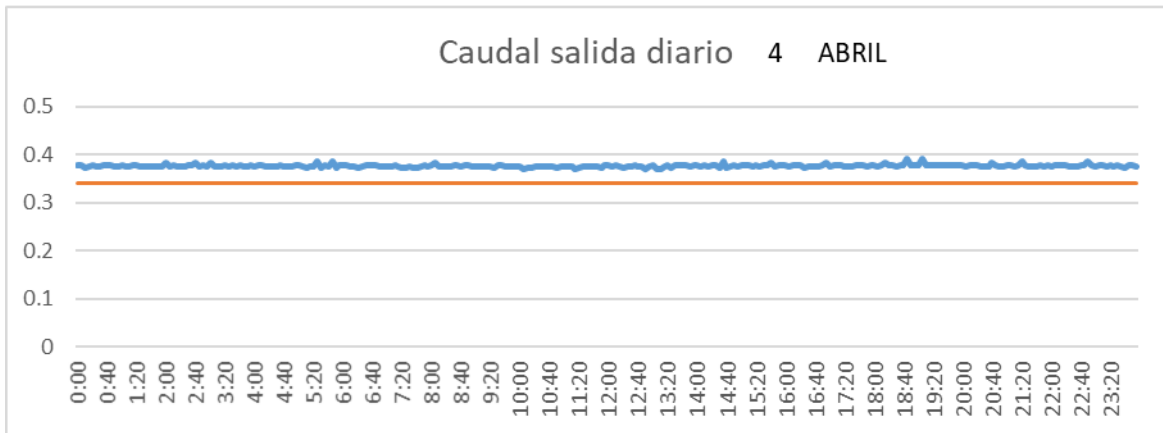
CUENCA



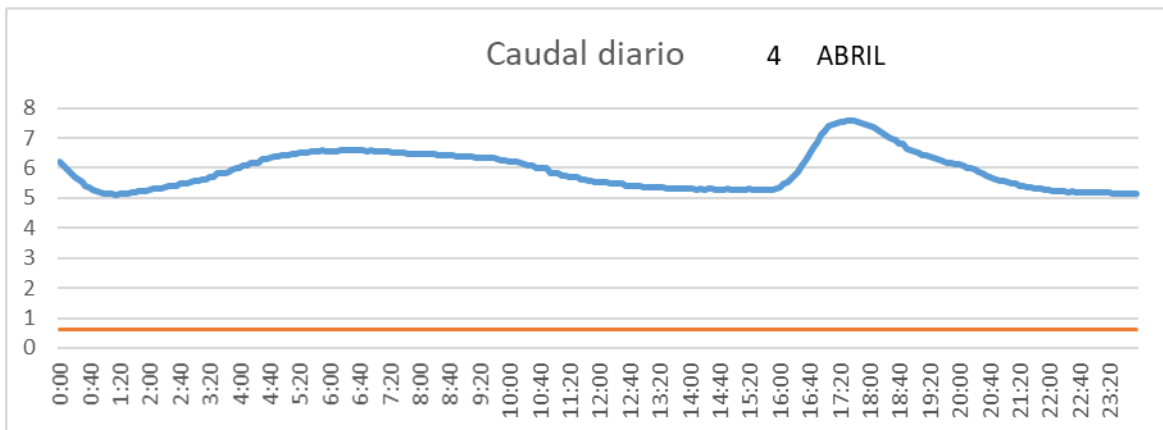
SAN LORENZO PARRILLA



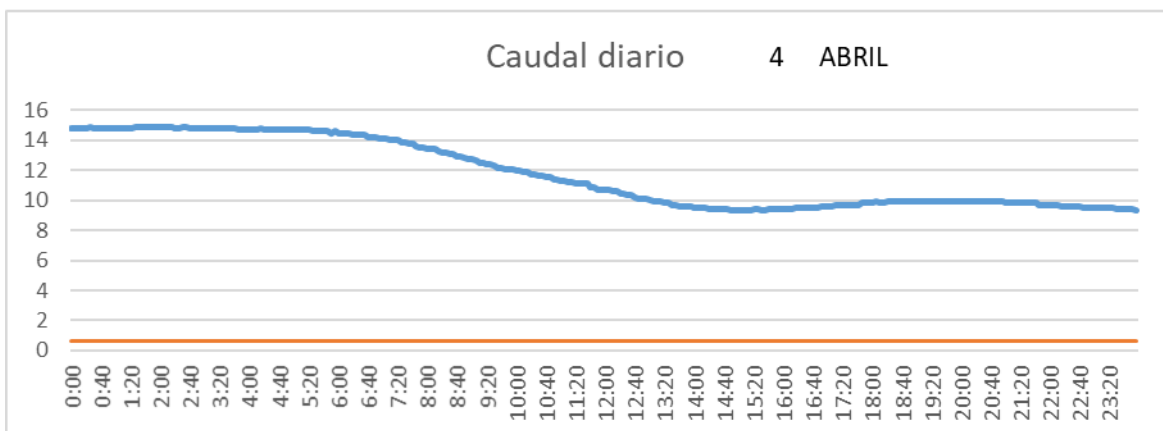
SALIDA TOBA



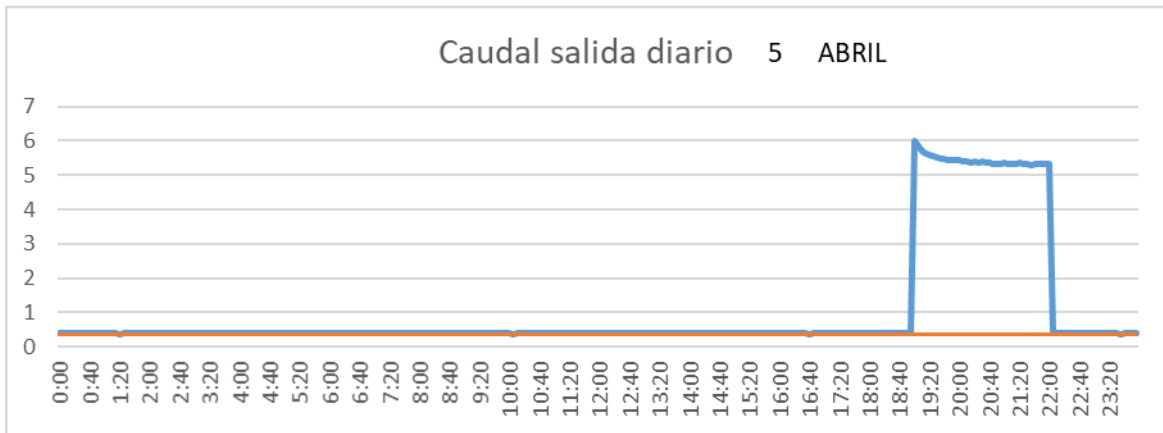
CUENCA



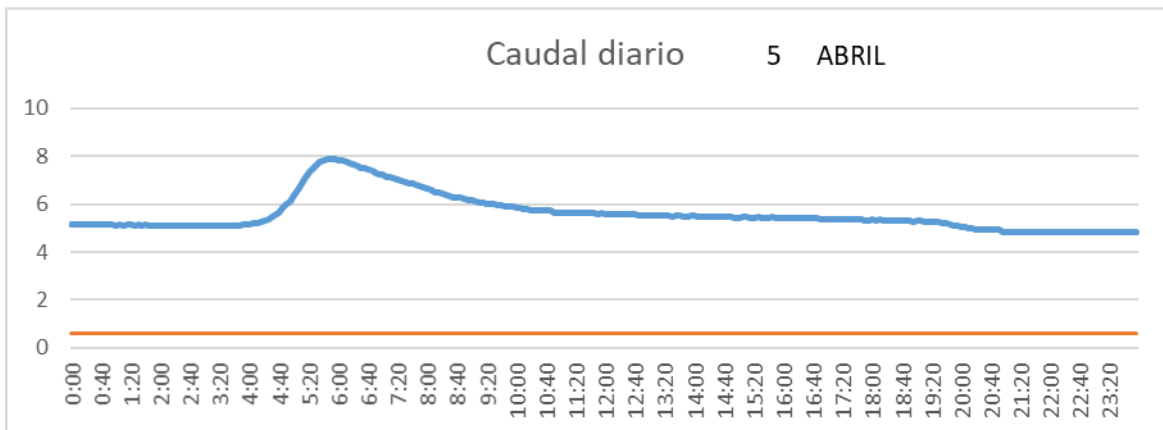
SAN LORENZO PARRILLA



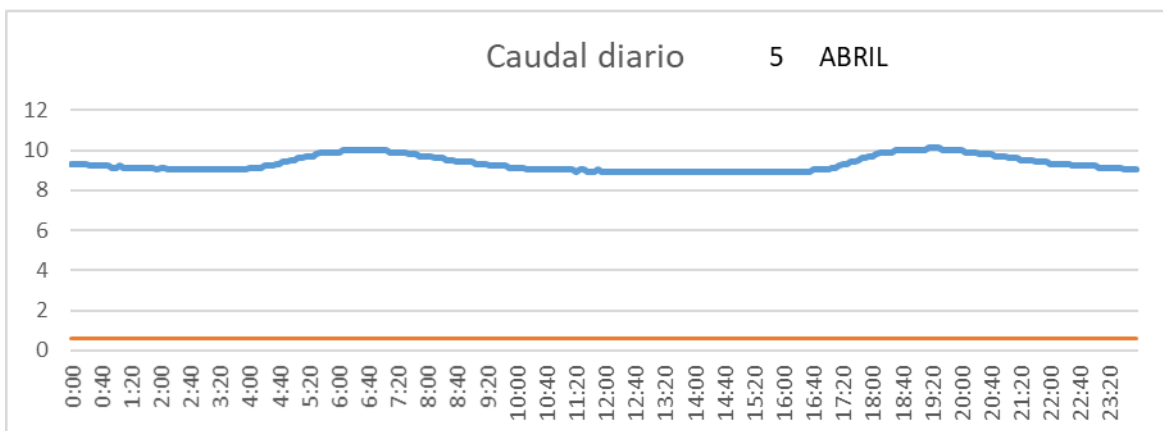
SALIDA TOBA



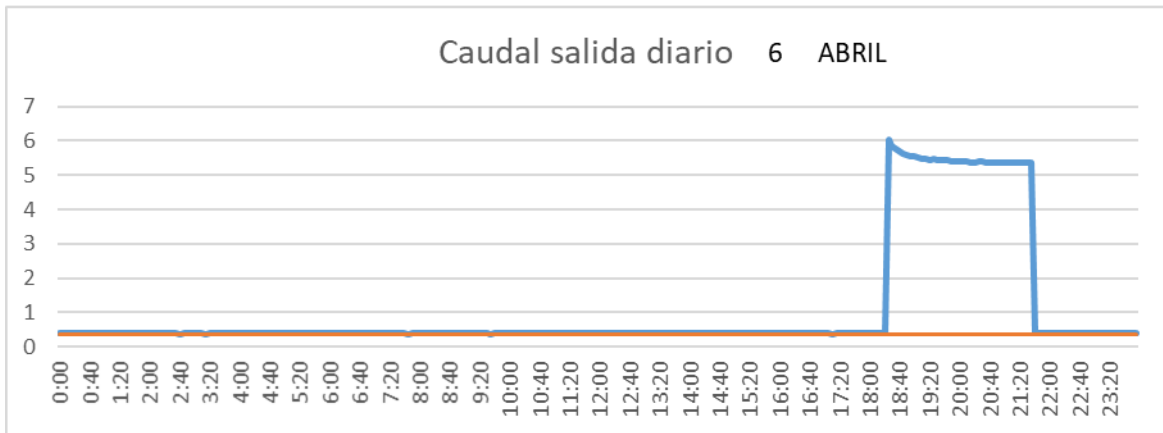
CUENCA



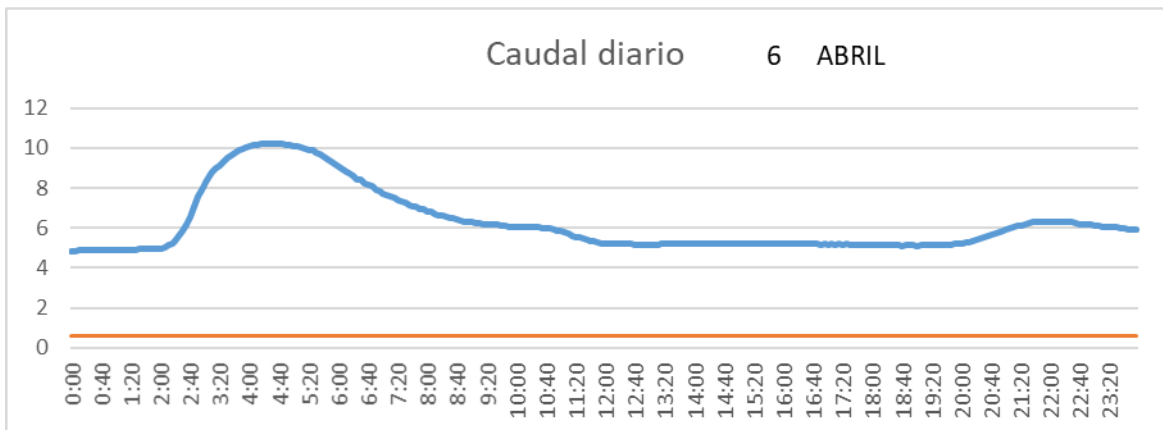
SAN LORENZO PARRILLA



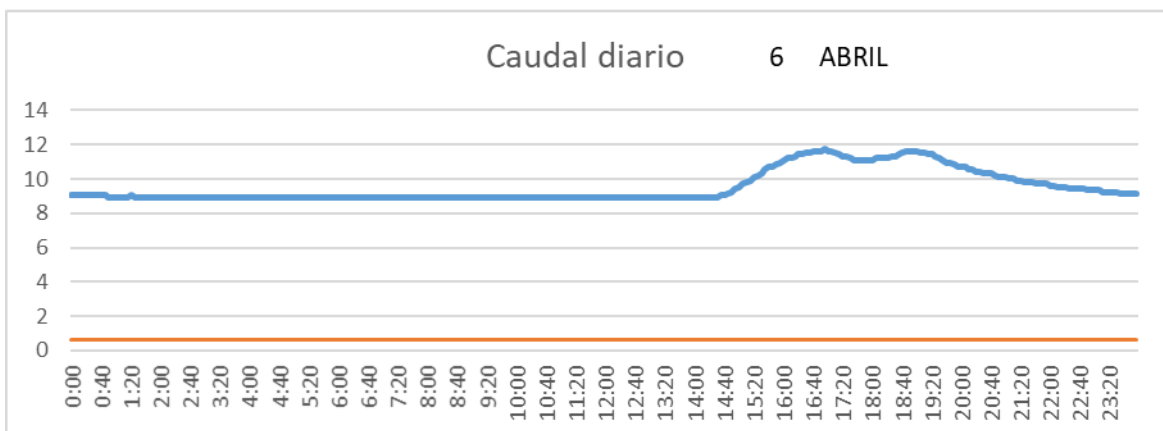
SALIDA TOBA



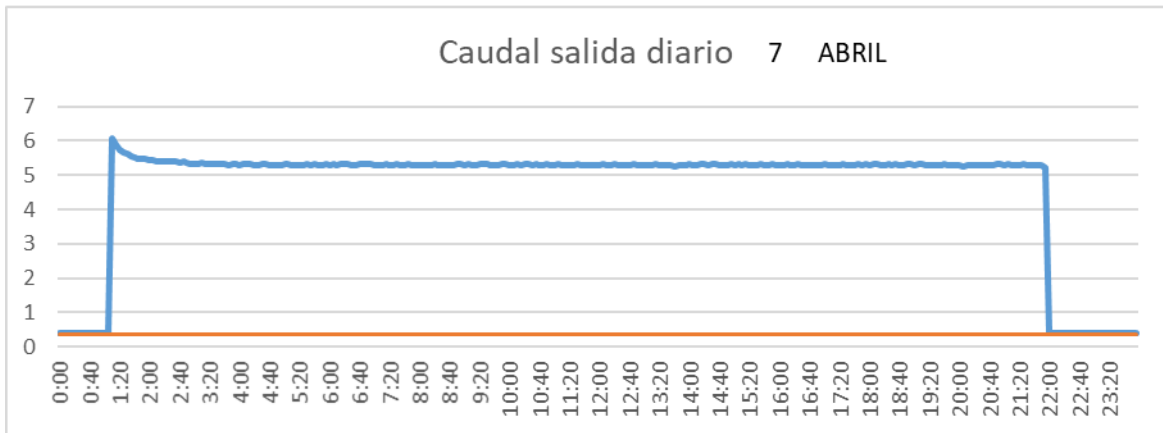
CUENCA



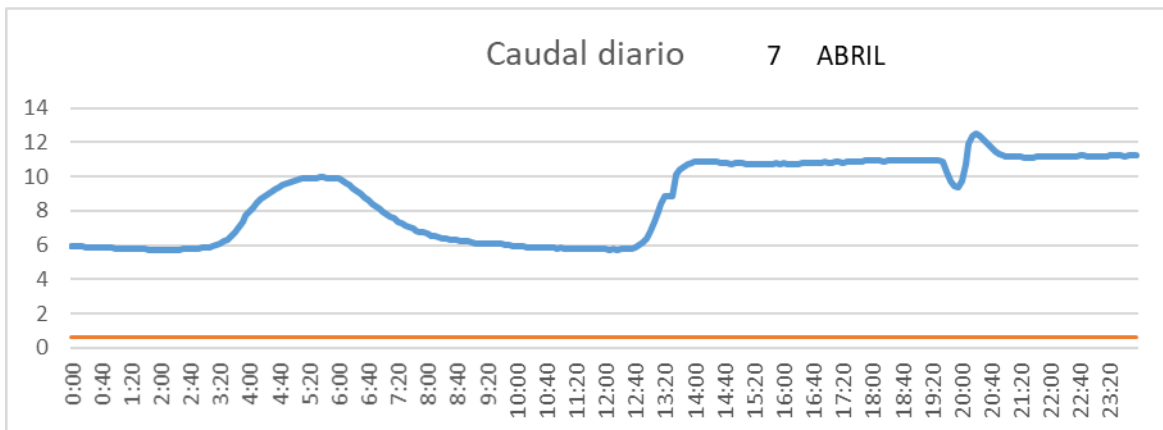
SAN LORENZO PARRILLA



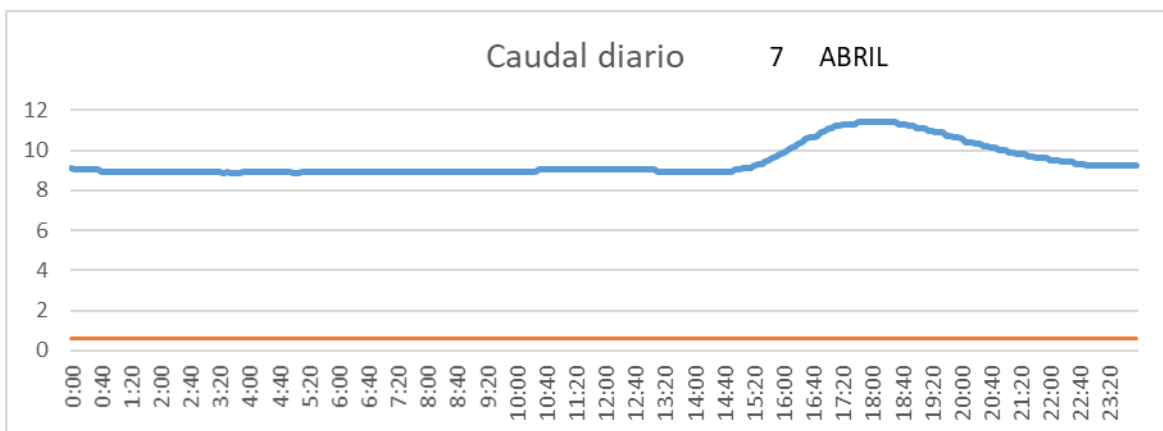
SALIDA TOBA



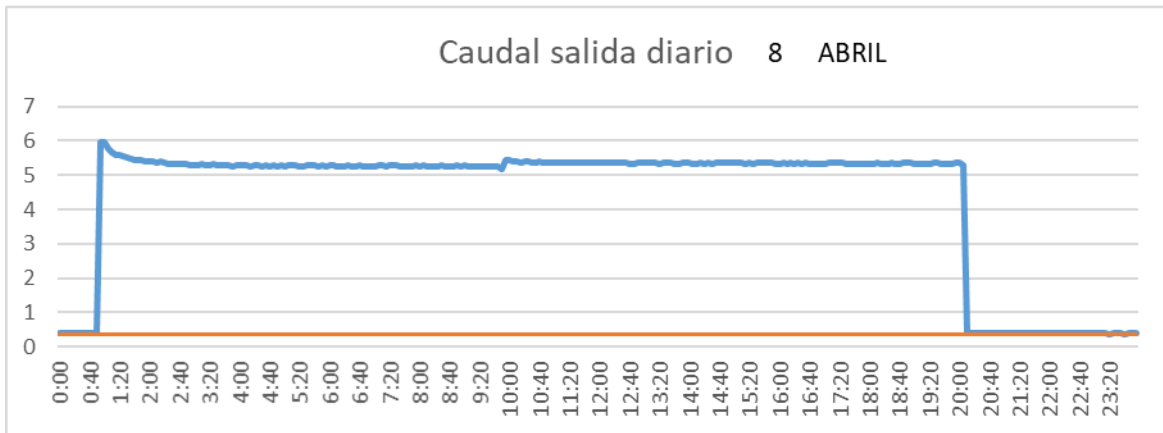
CUENCA



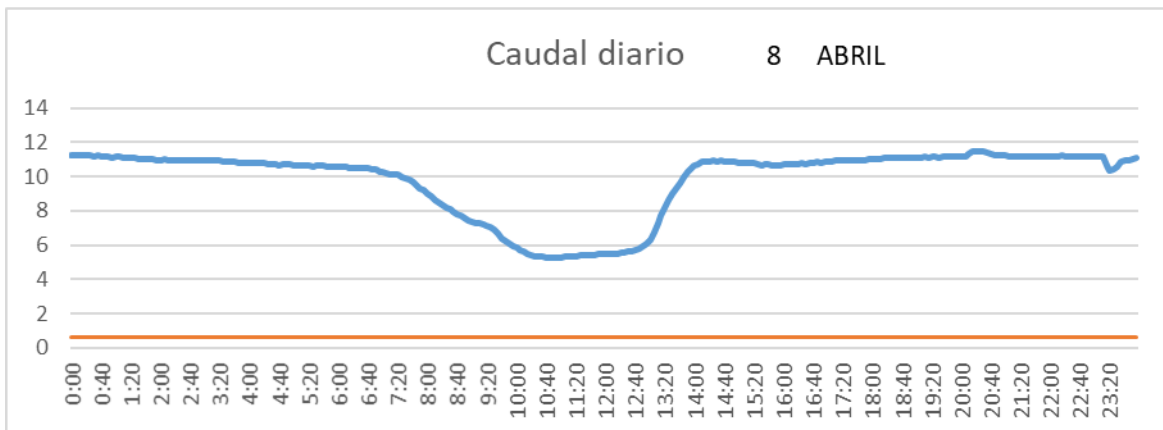
SAN LORENZO PARRILLA



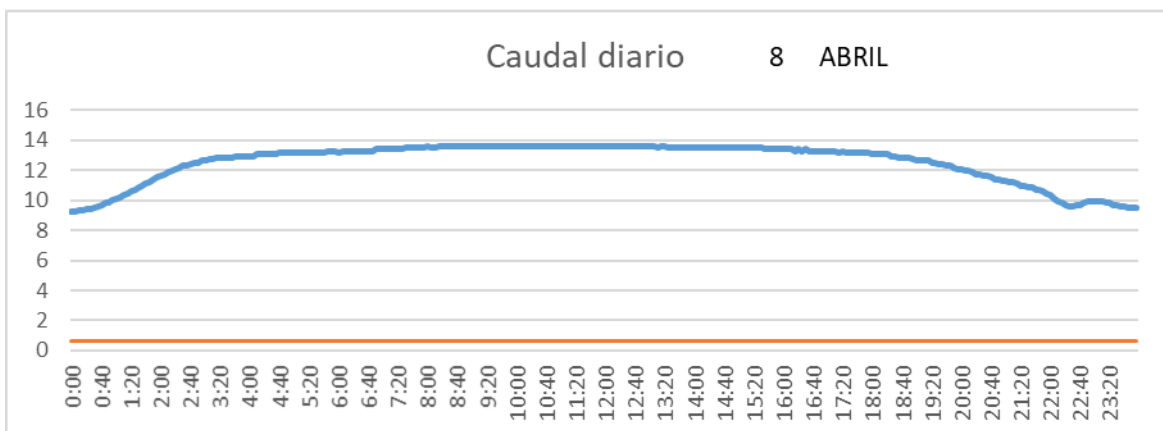
SALIDA TOBA



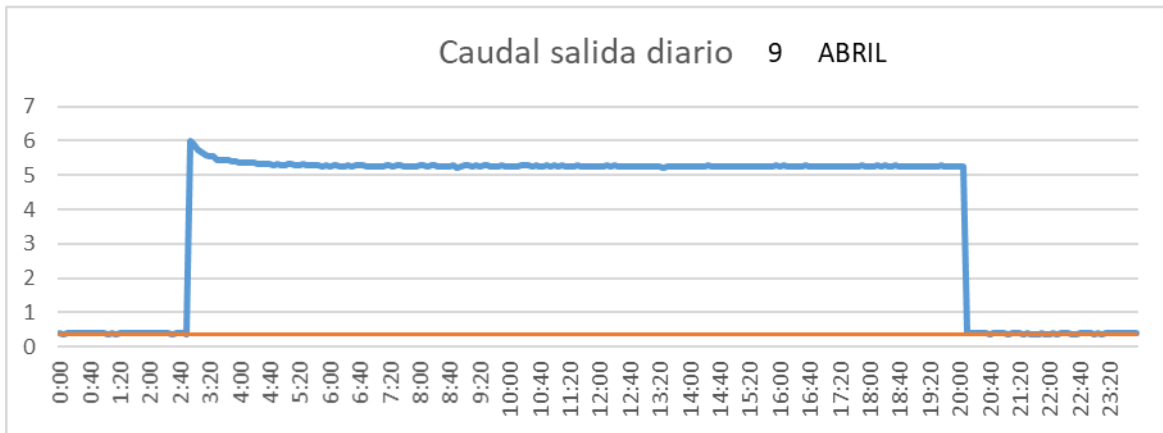
CUENCA



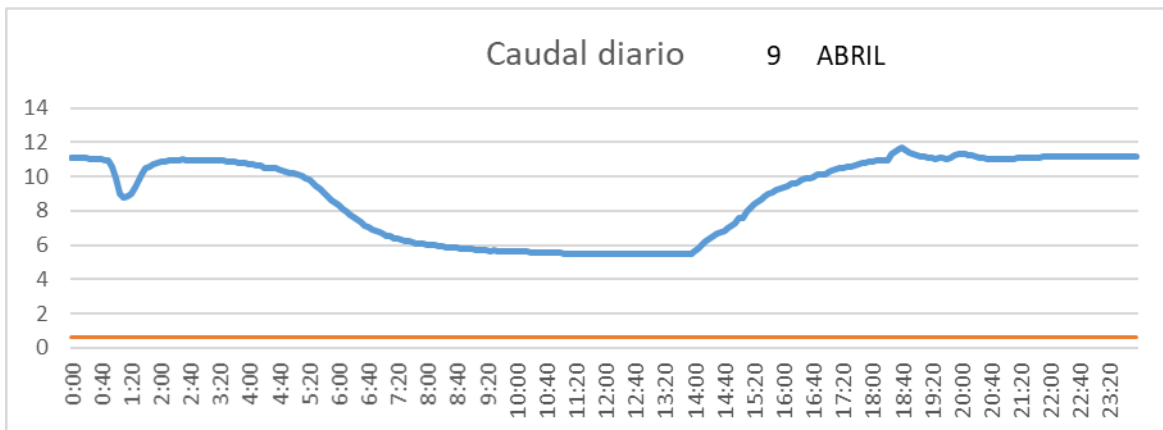
SAN LORENZO PARRILLA



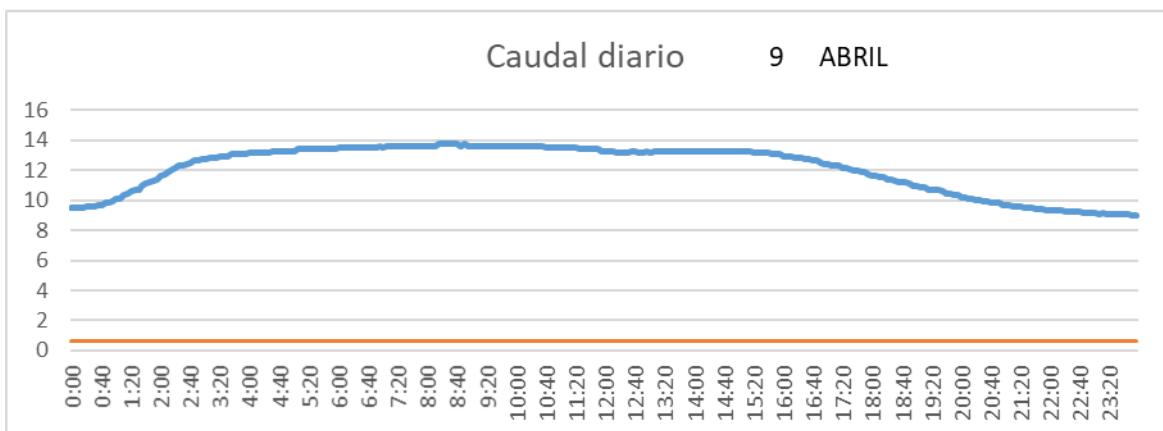
SALIDA TOBA



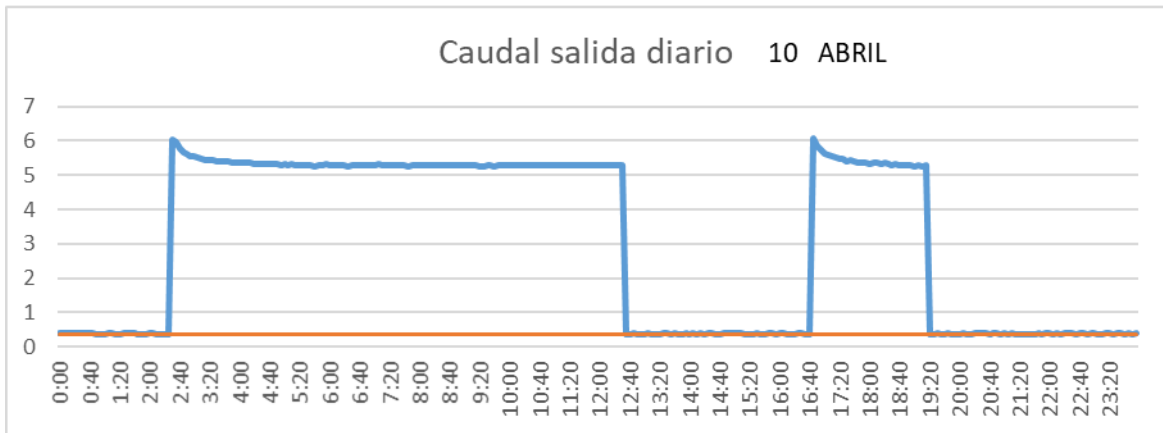
CUENCA



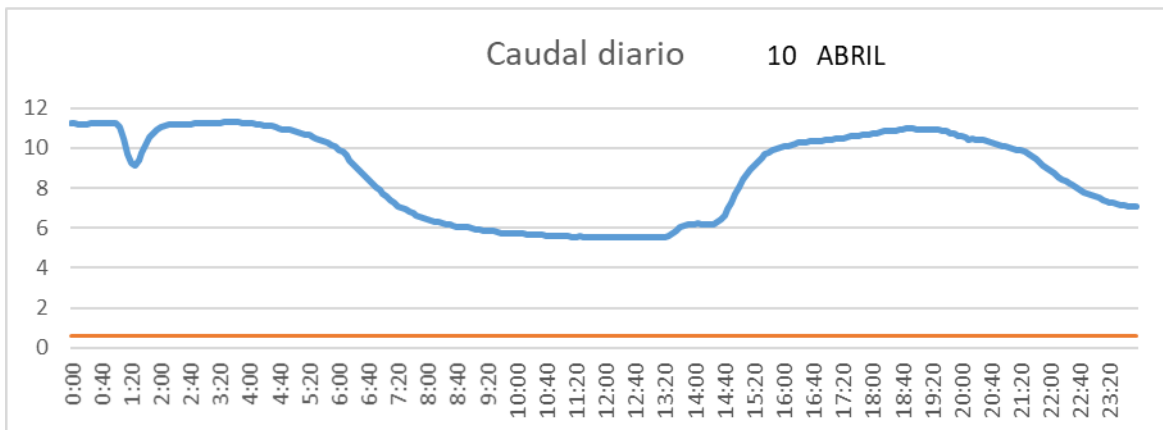
SAN LORENZO PARRILLA



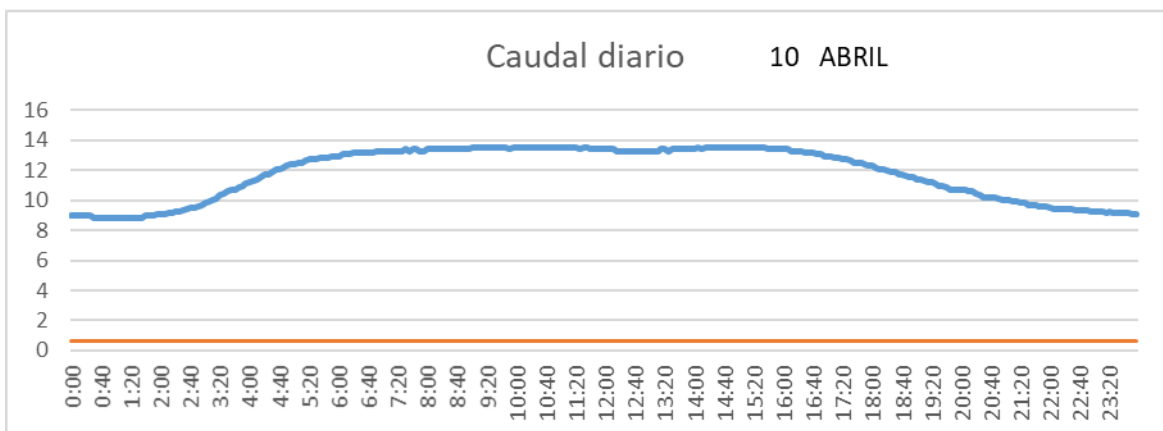
SALIDA TOBA



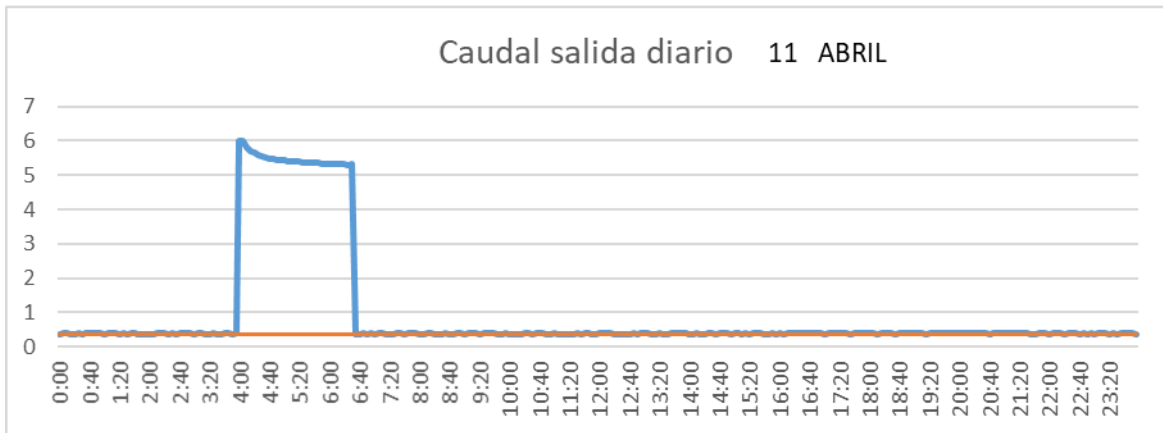
CUENCA



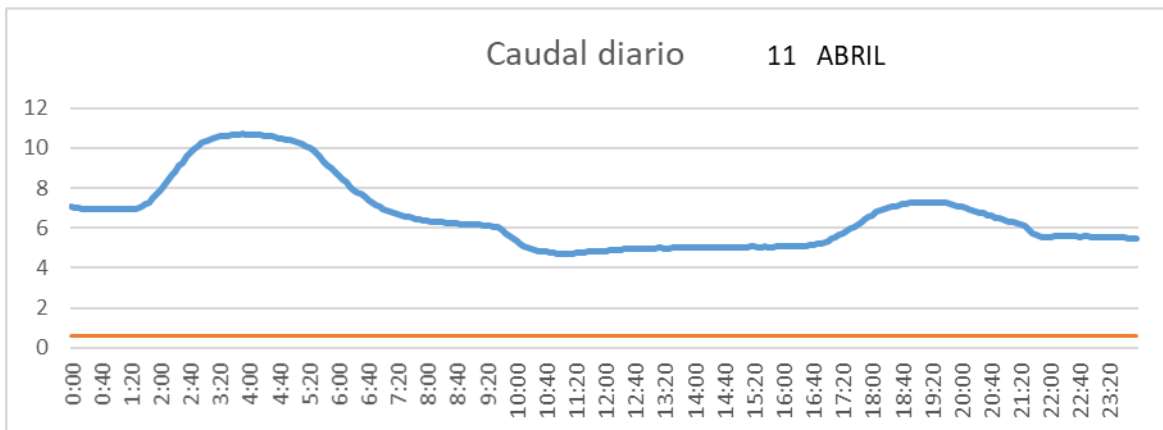
SAN LORENZO PARRILLA



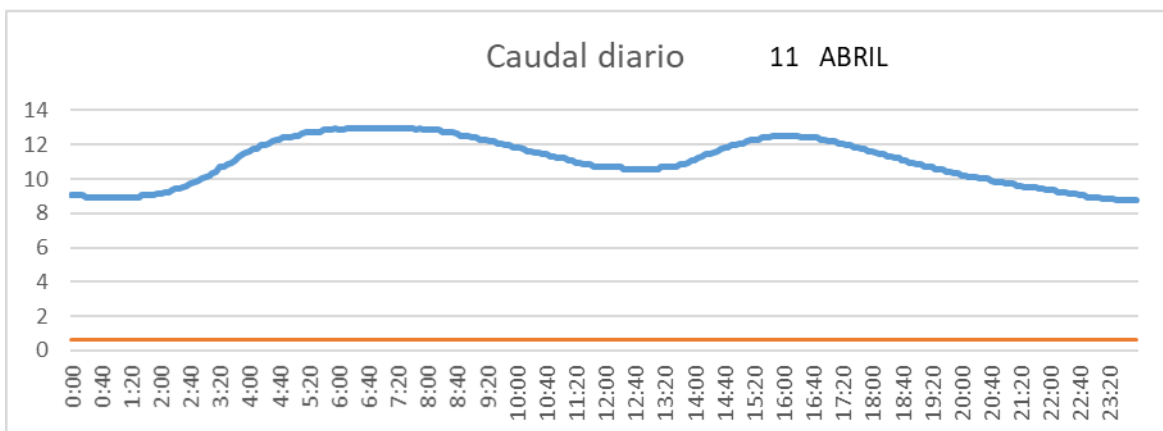
SALIDA TOBA



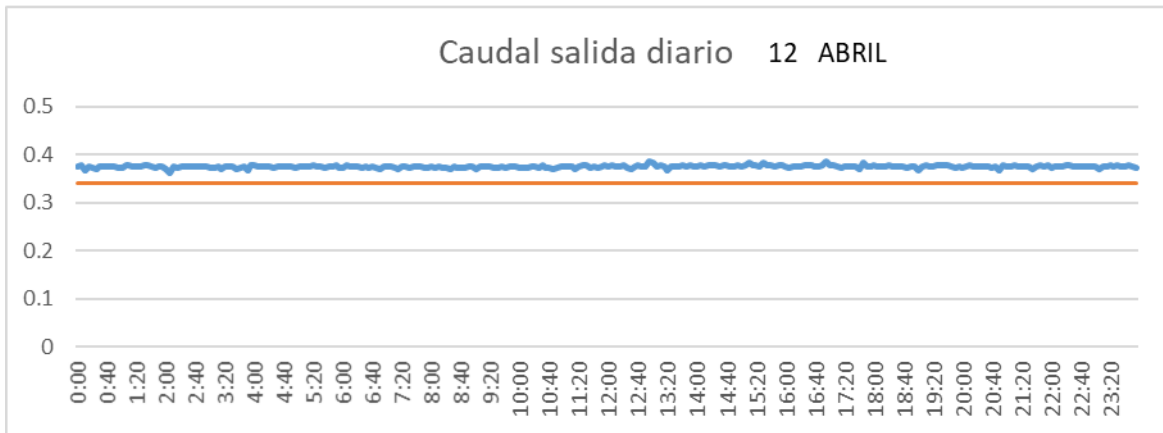
CUENCA



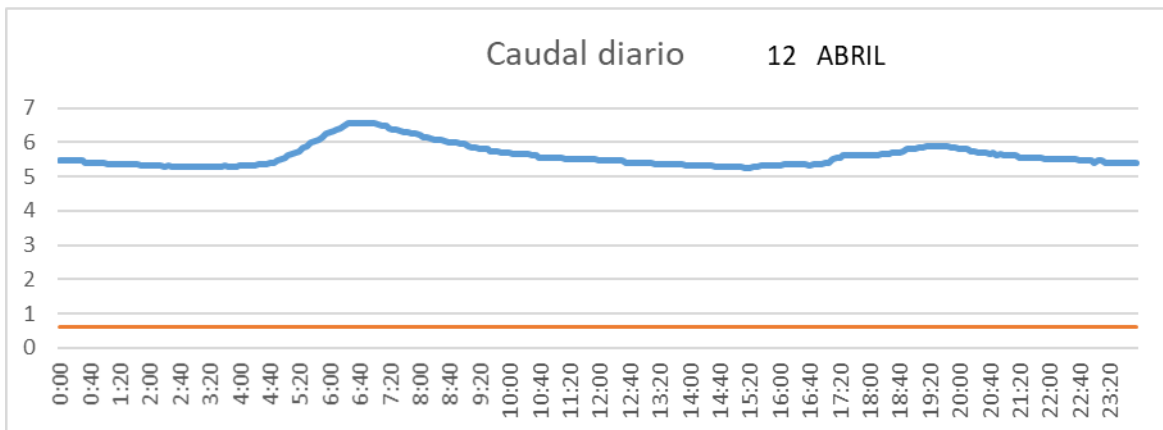
SAN LORENZO PARRILLA



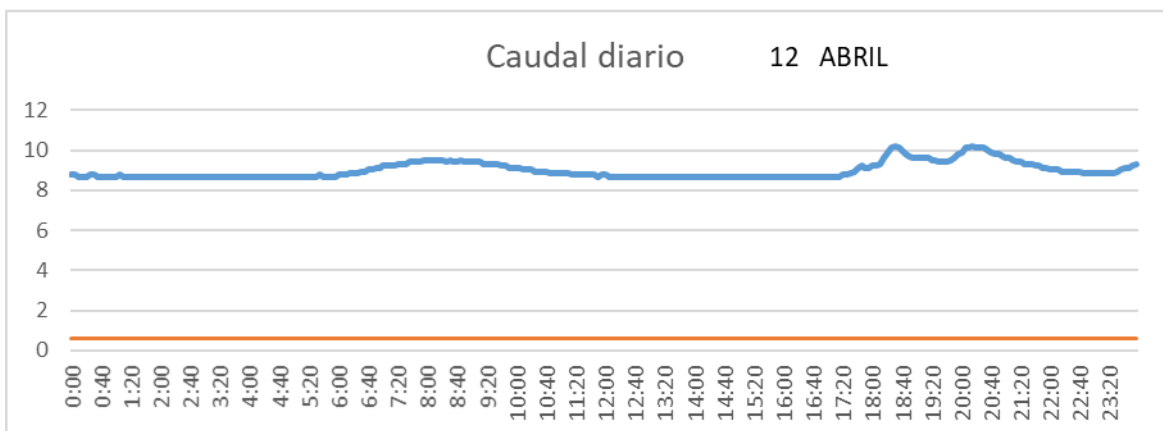
SALIDA TOBA



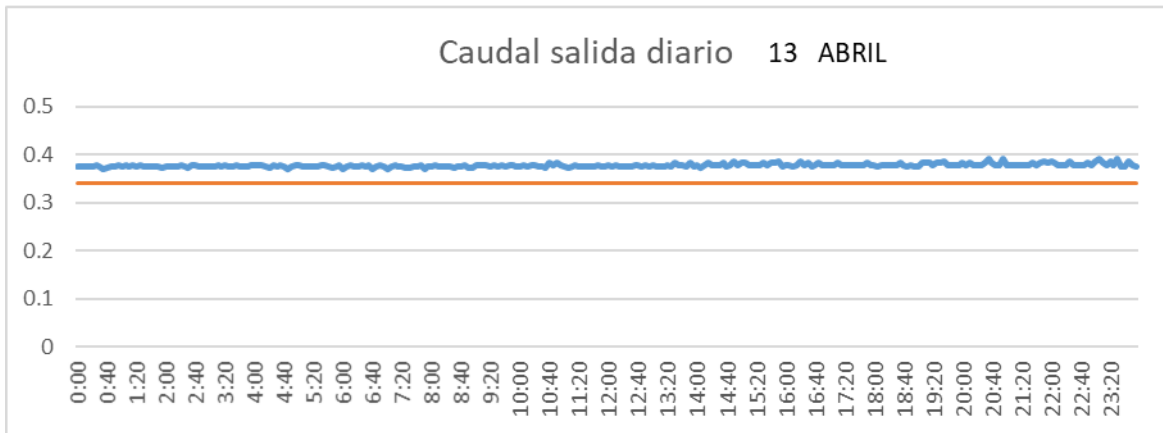
CUENCA



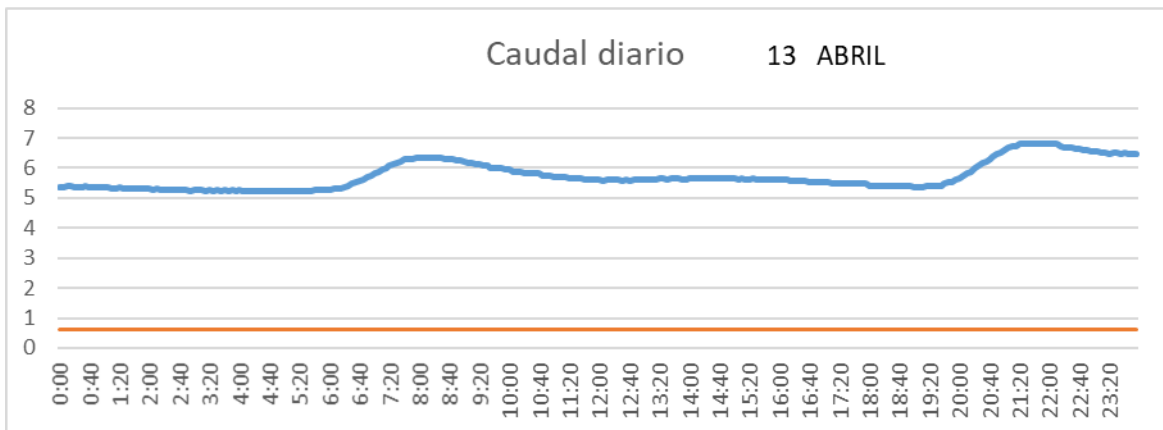
SAN LORENZO PARRILLA



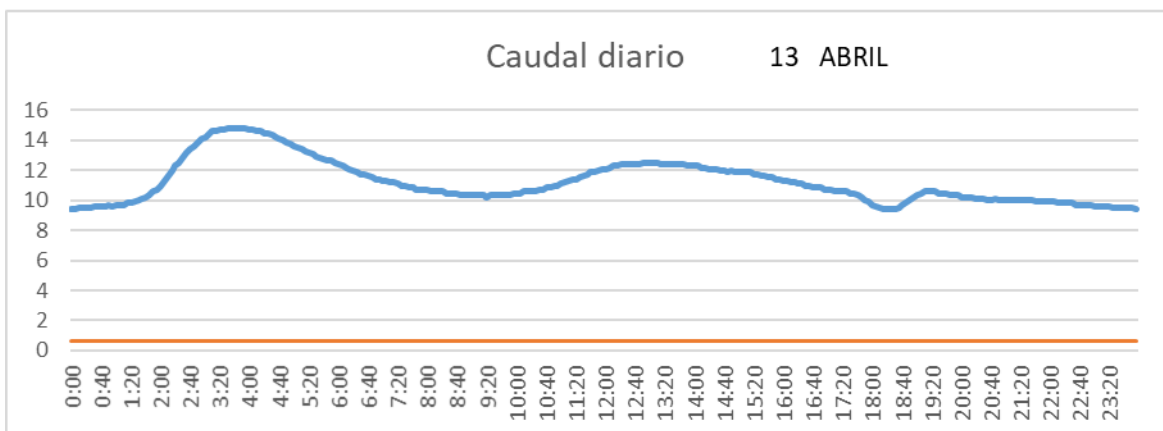
SALIDA TOBA



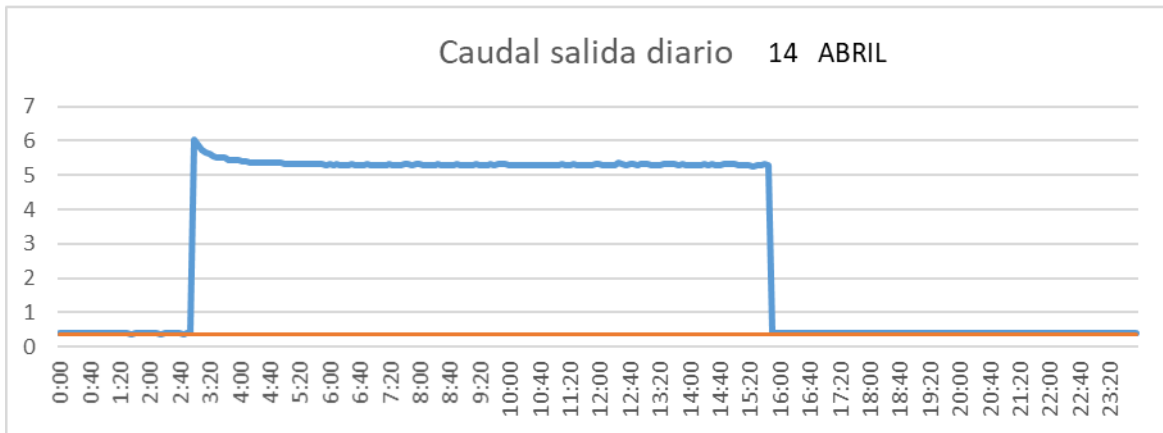
CUENCA



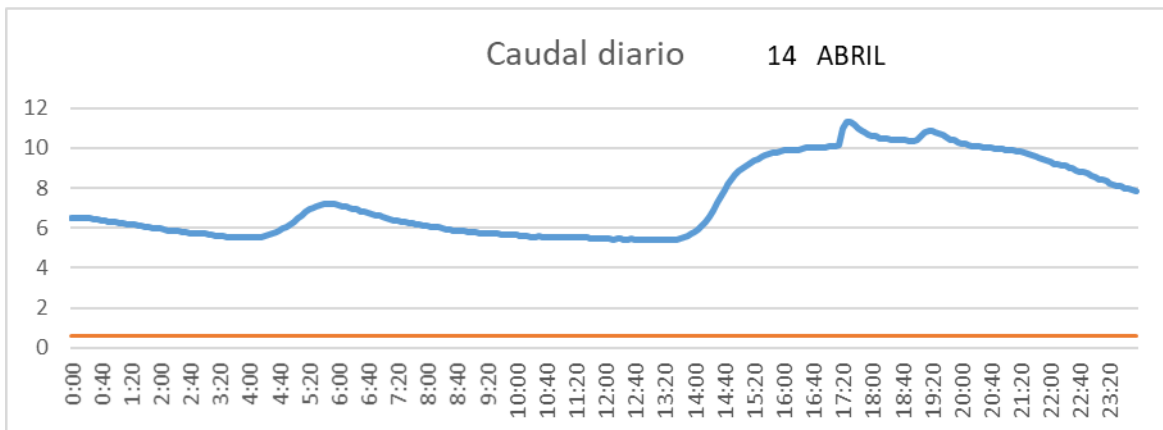
SAN LORENZO PARRILLA



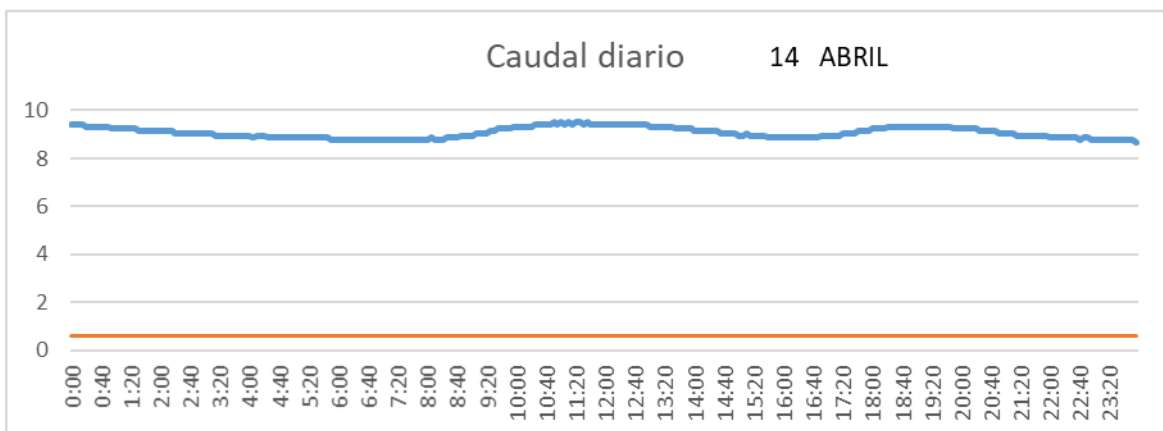
SALIDA TOBA



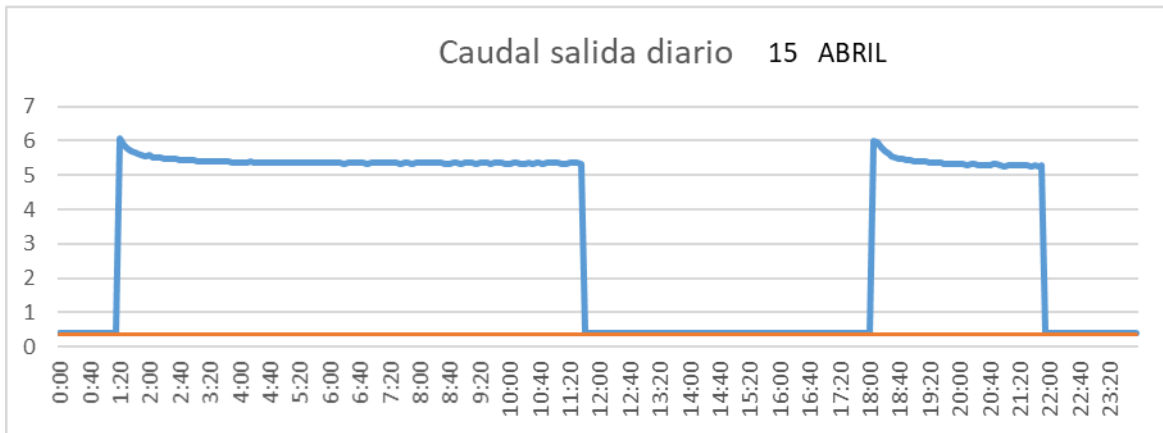
CUENCA



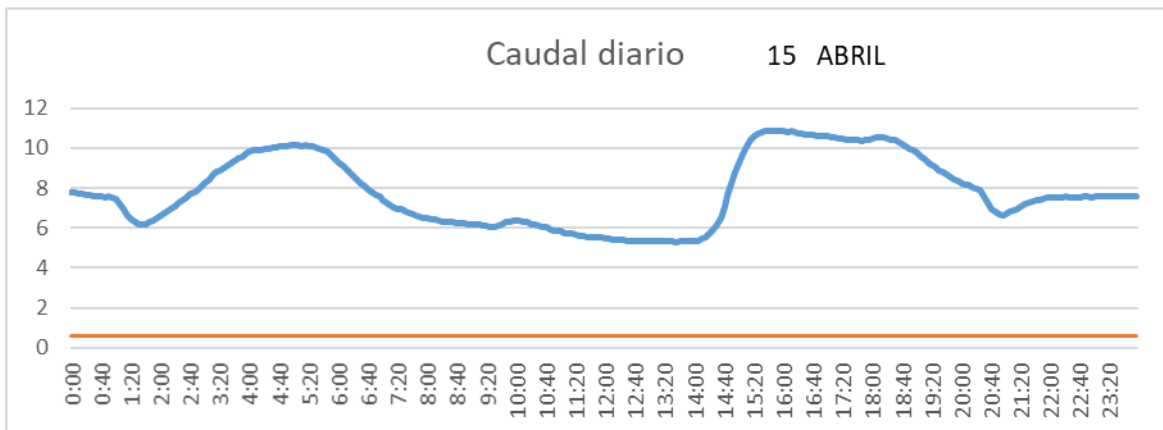
SAN LORENZO PARRILLA



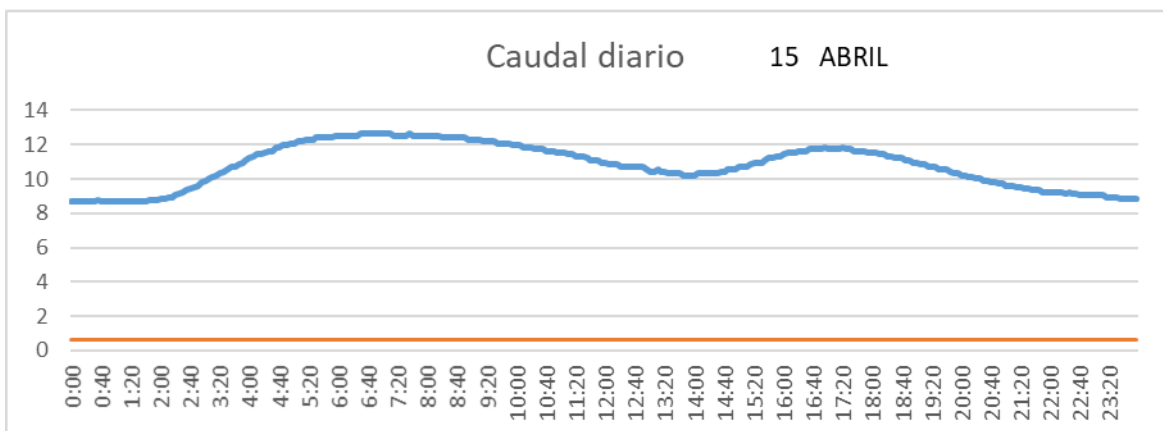
SALIDA TOBA



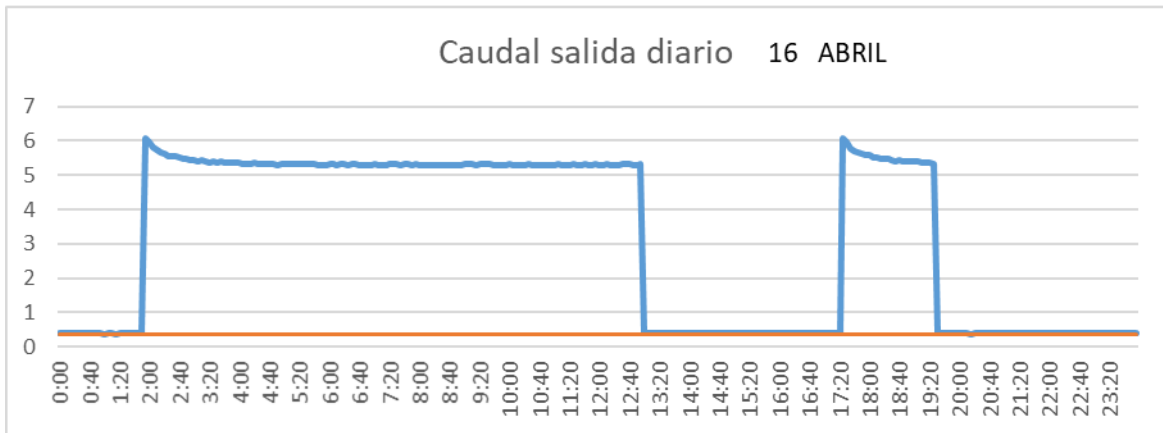
CUENCA



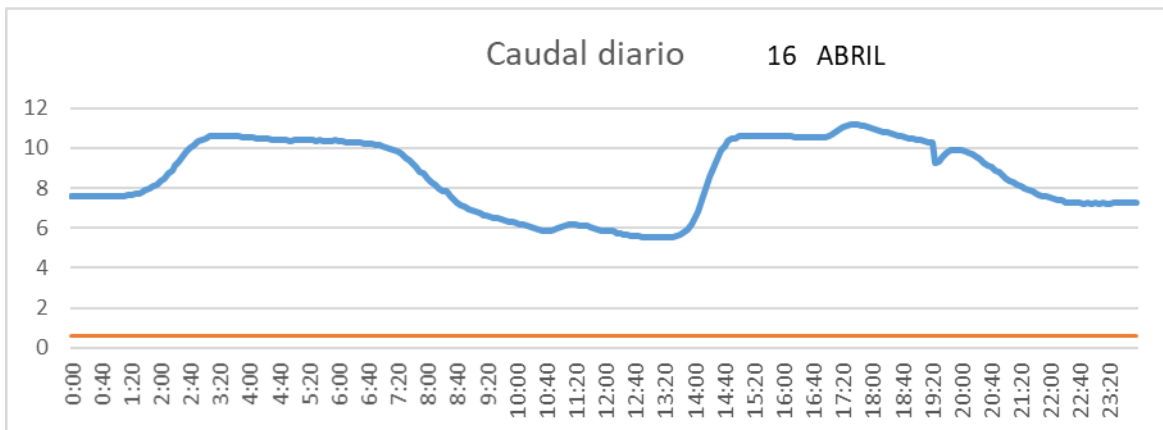
SAN LORENZO PARRILLA



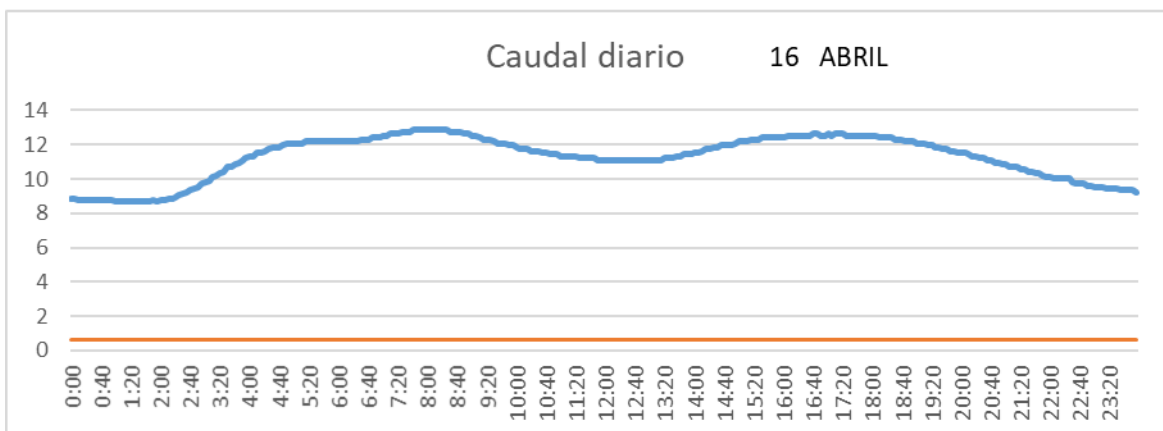
SALIDA TOBA



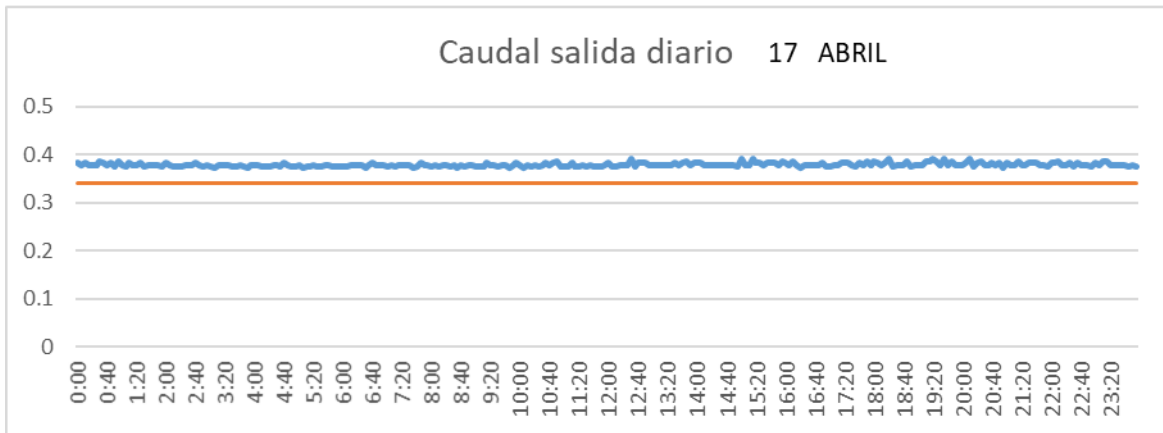
CUENCA



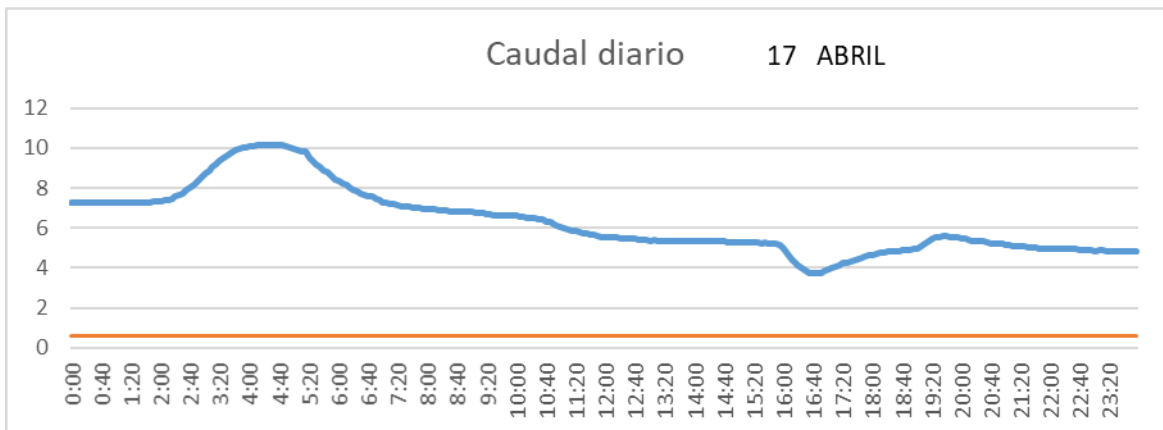
SAN LORENZO PARRILLA



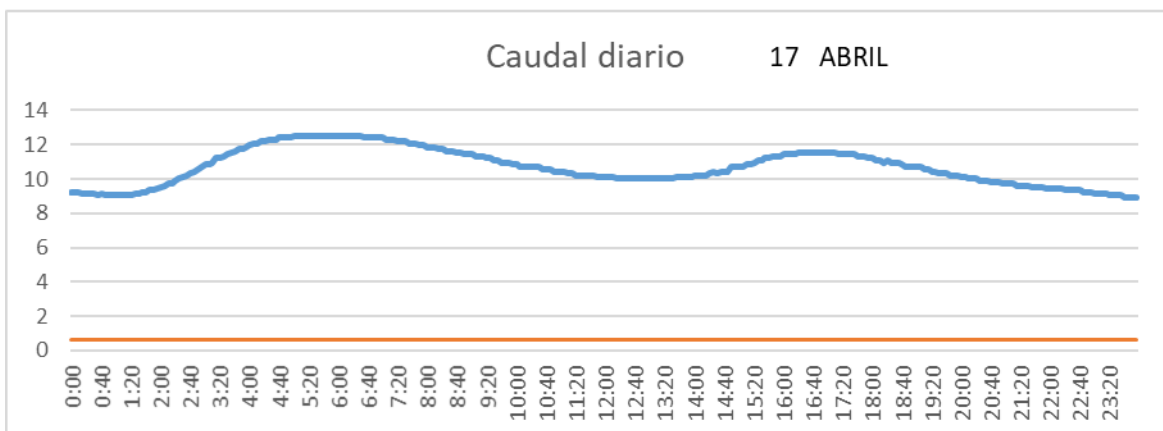
SALIDA TOBA



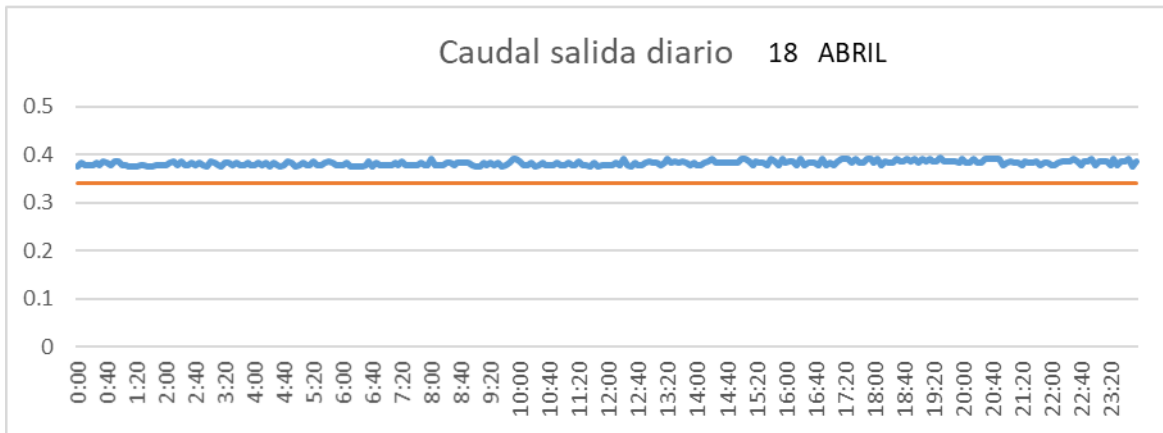
CUENCA



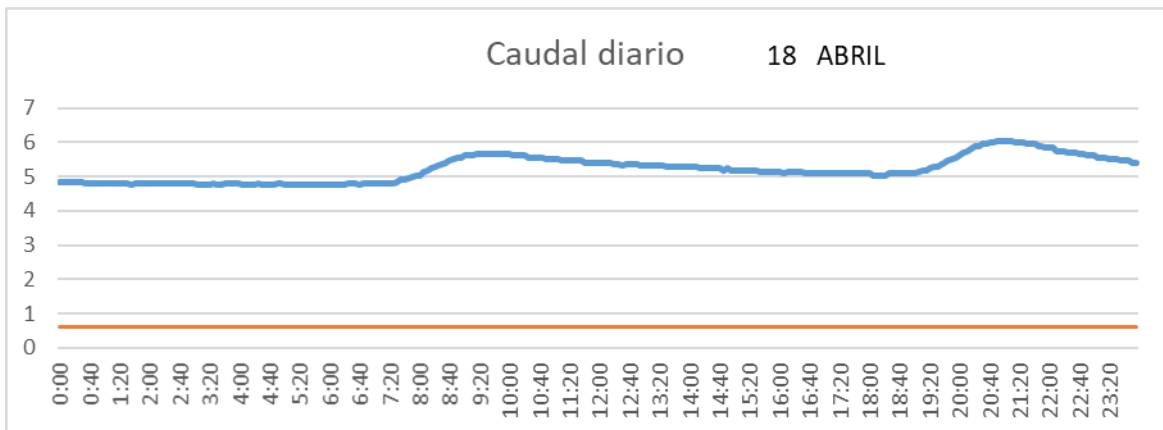
SAN LORENZO PARRILLA



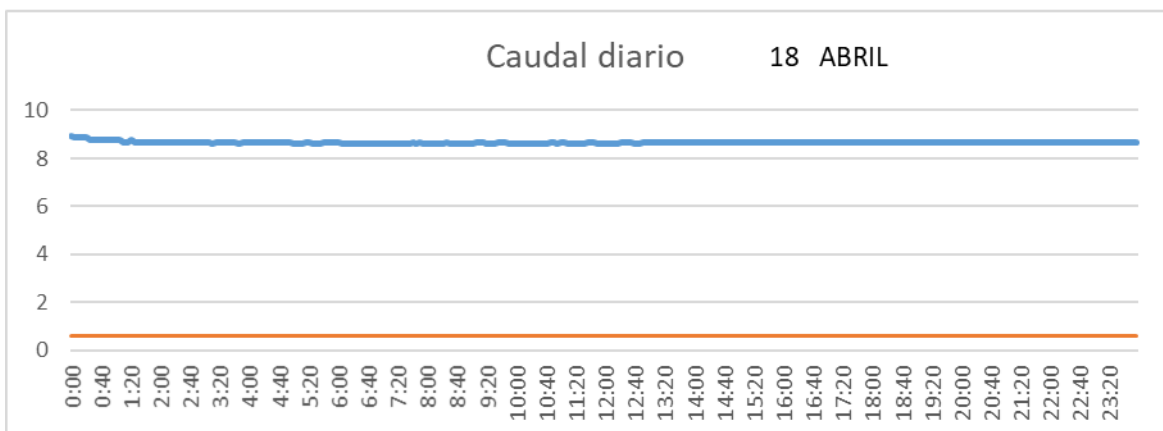
SALIDA TOBA



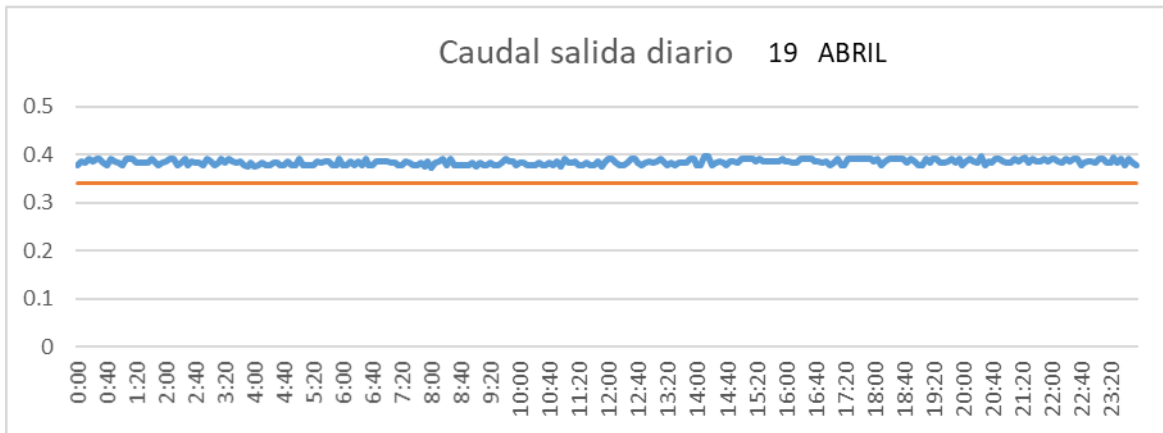
CUENCA



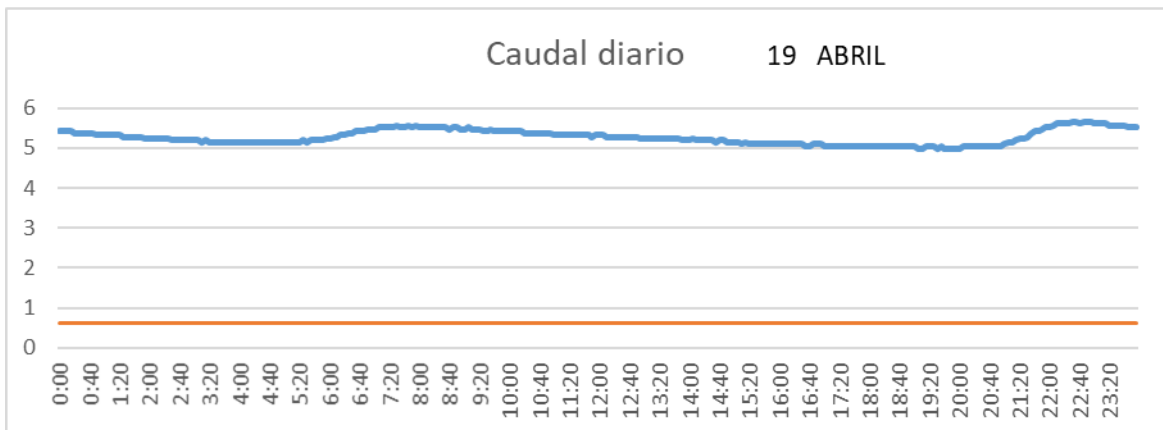
SAN LORENZO PARRILLA



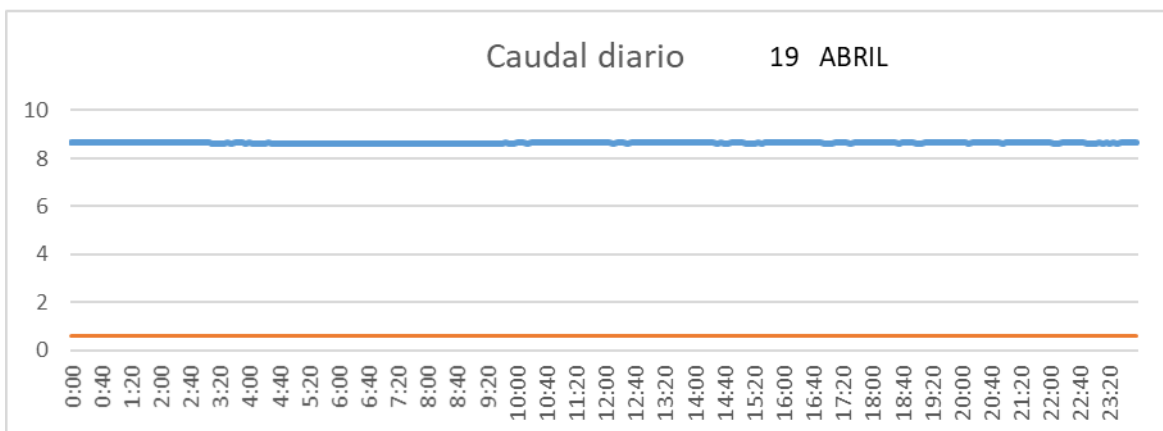
SALIDA TOBA



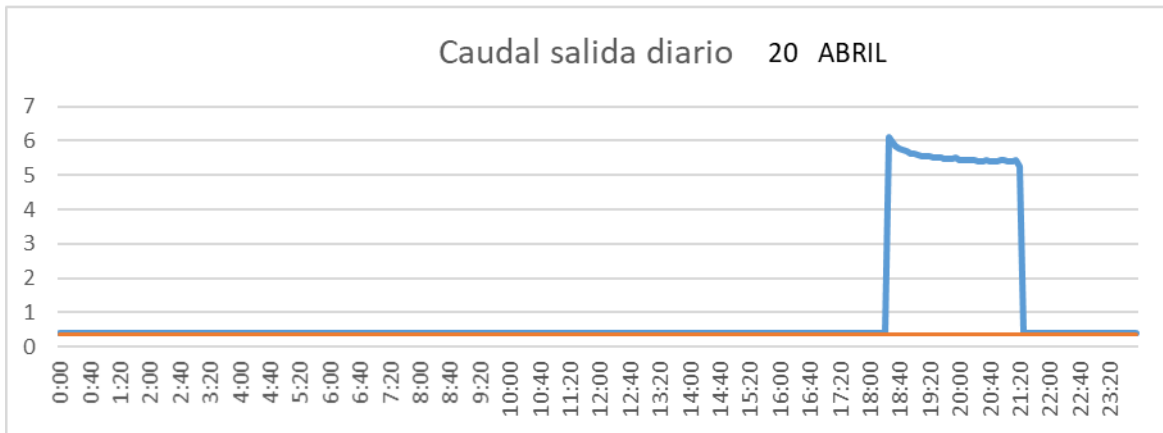
CUENCA



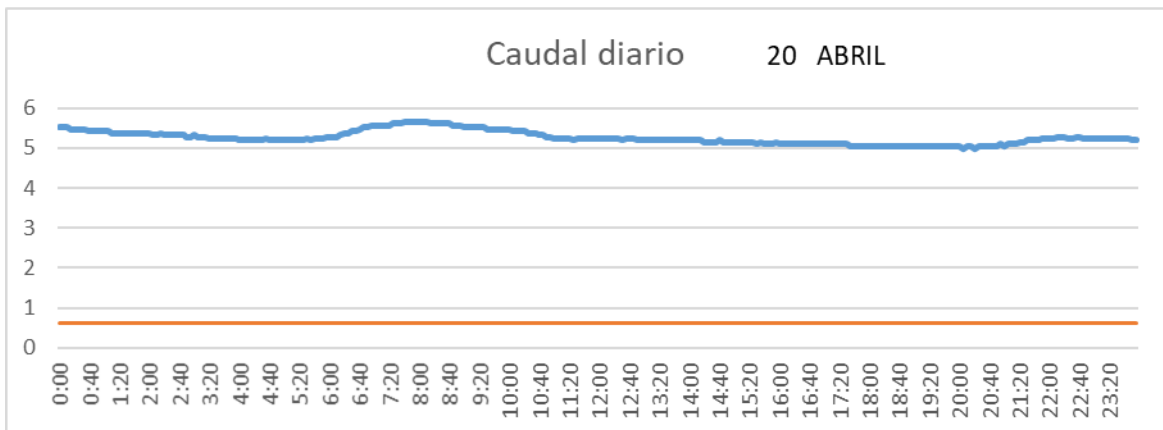
SAN LORENZO PARRILLA



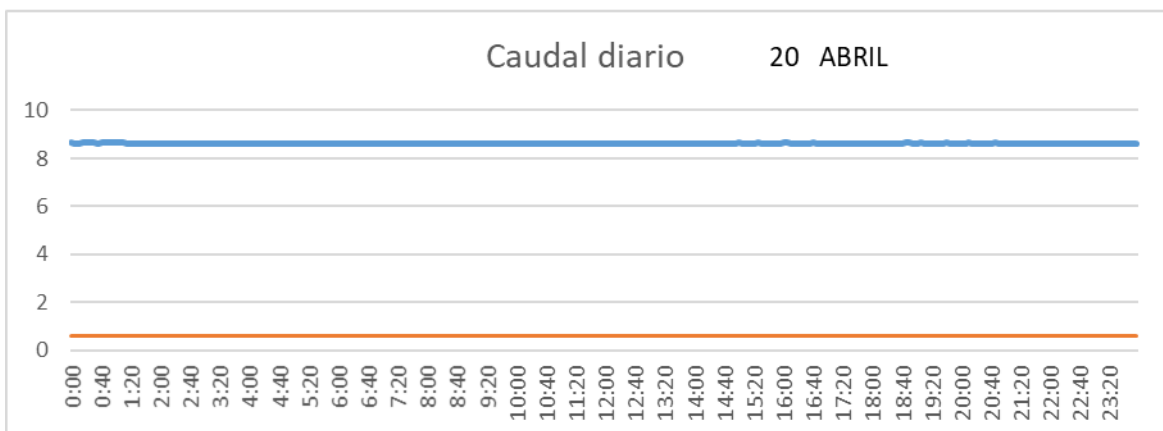
SALIDA TOBA



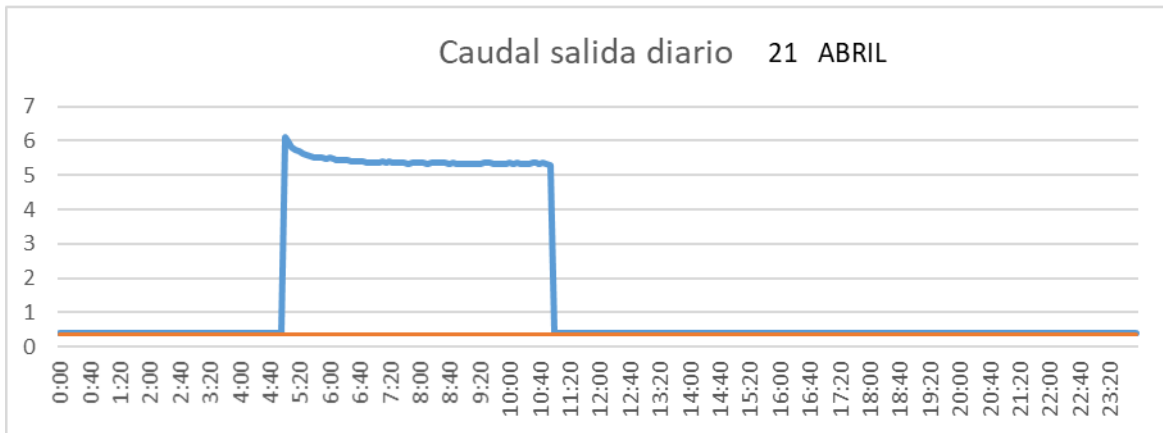
CUENCA



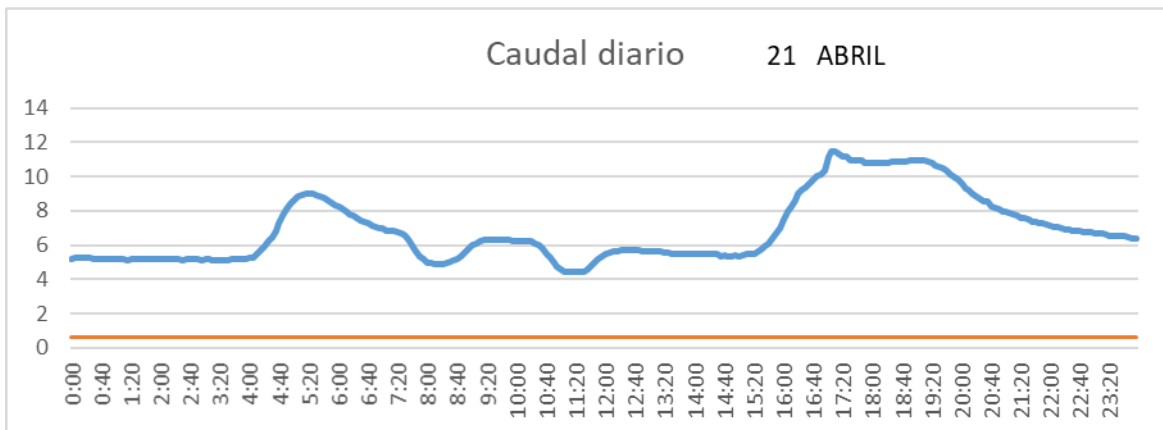
SAN LORENZO PARRILLA



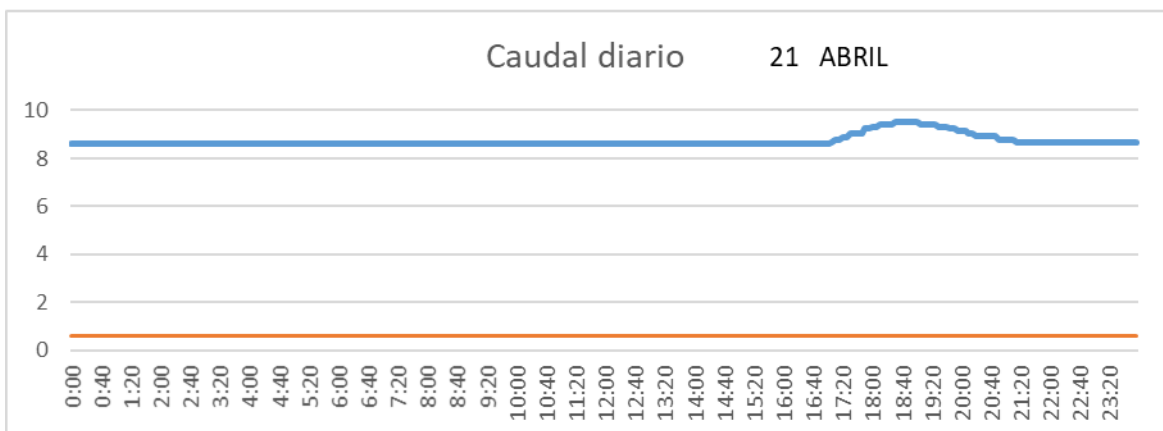
SALIDA TOBA



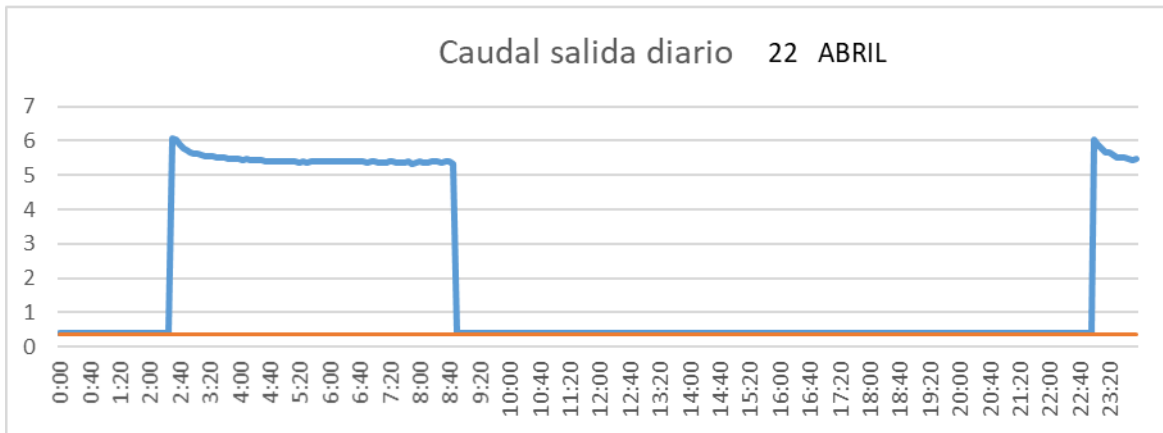
CUENCA



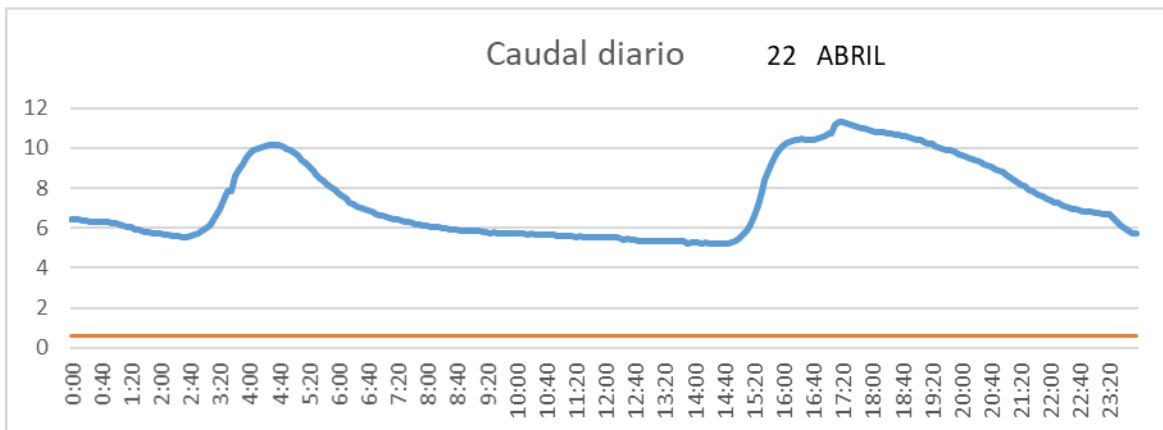
SAN LORENZO PARRILLA



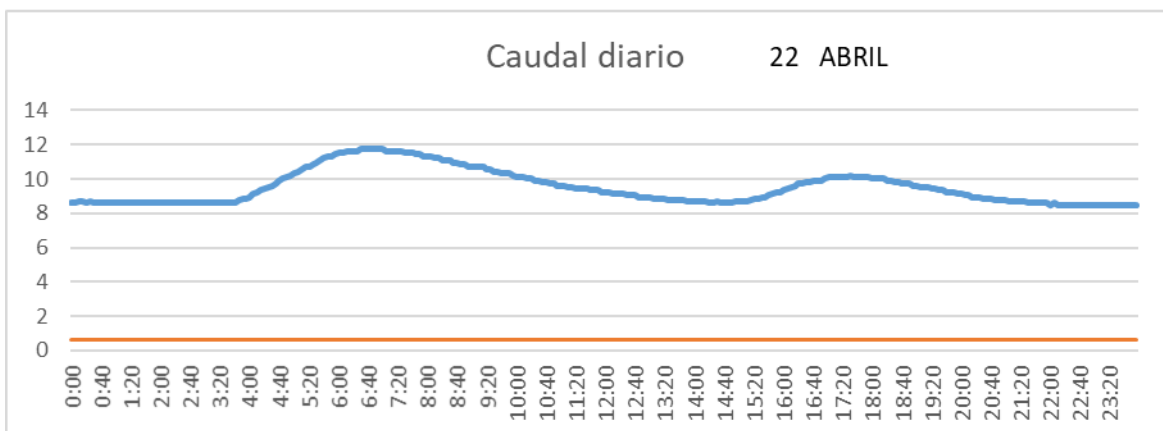
SALIDA TOBA



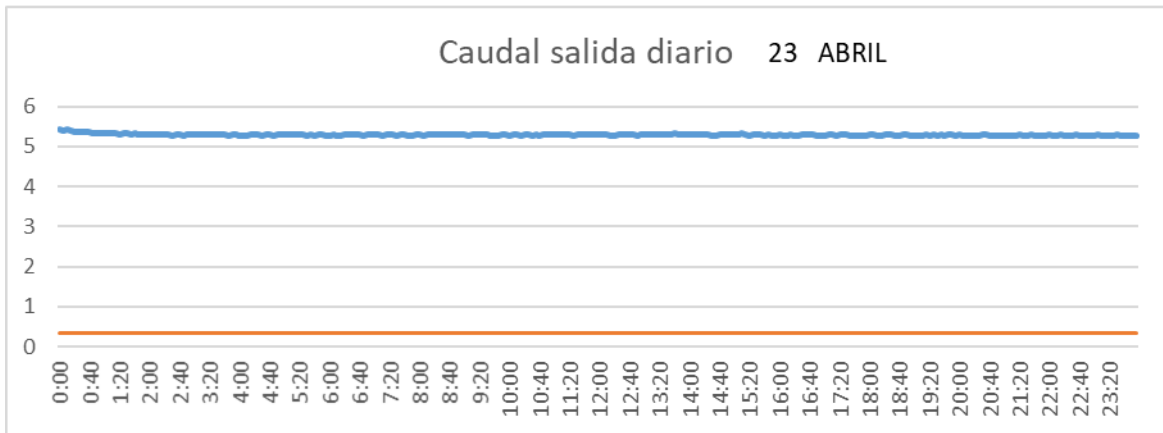
CUENCA



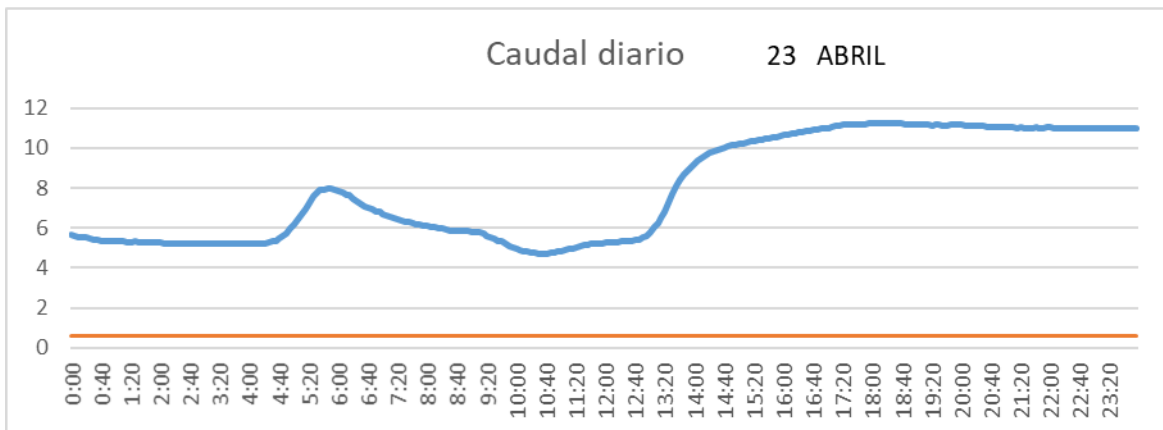
SAN LORENZO PARRILLA



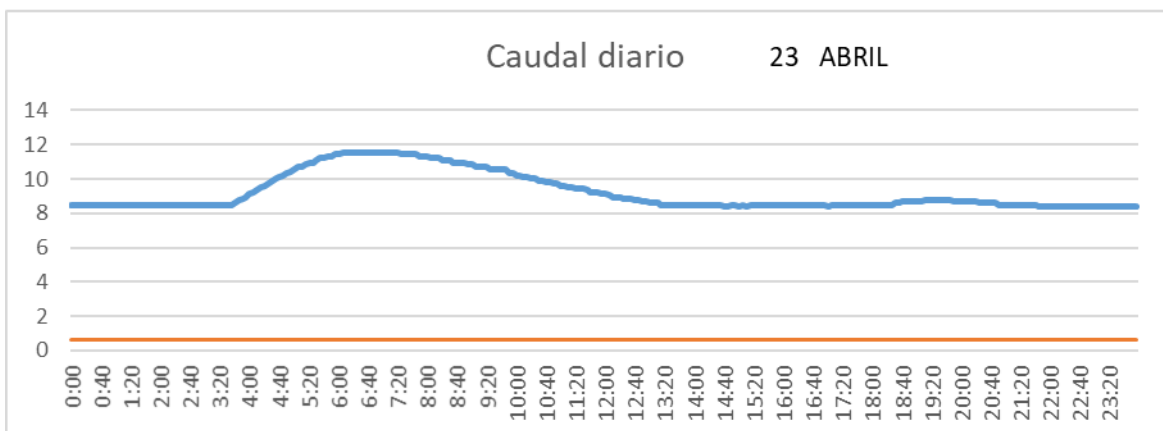
SALIDA TOBA



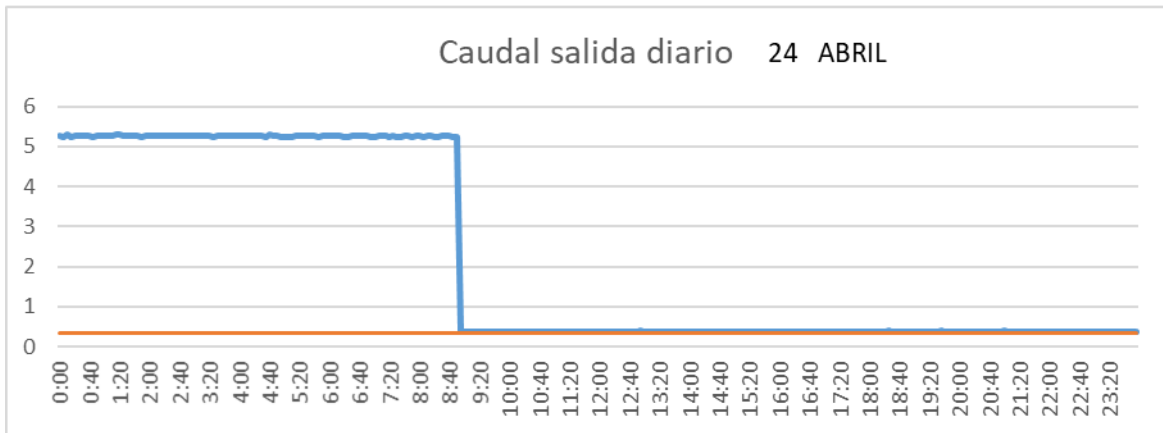
CUENCA



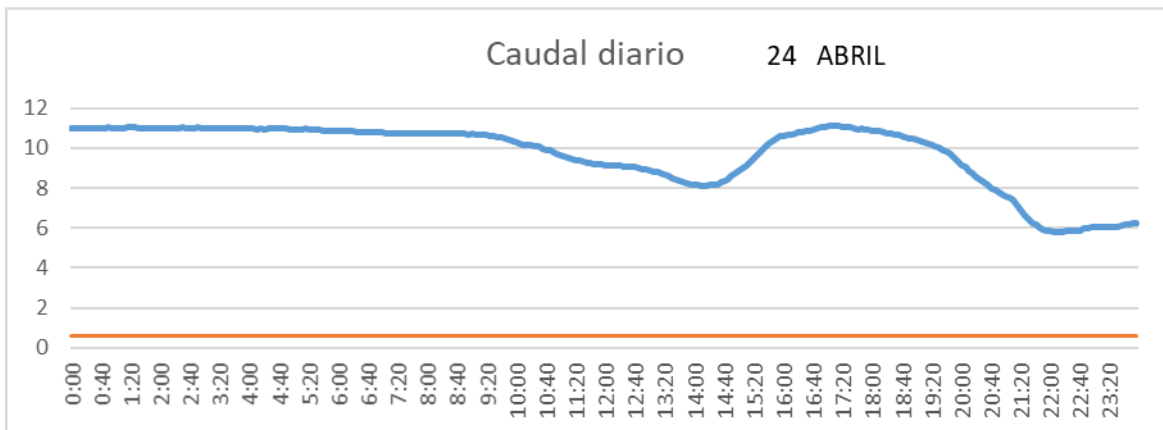
SAN LORENZO PARRILLA



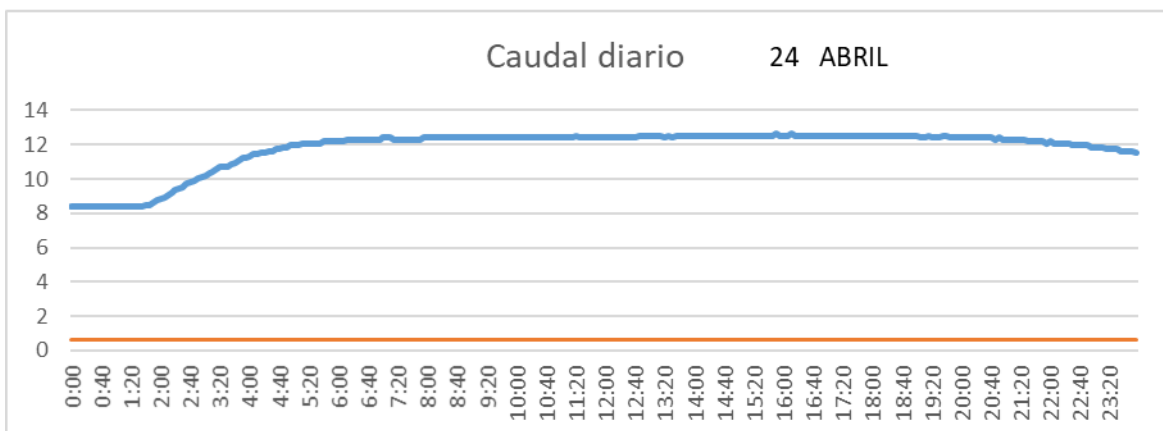
SALIDA TOBA



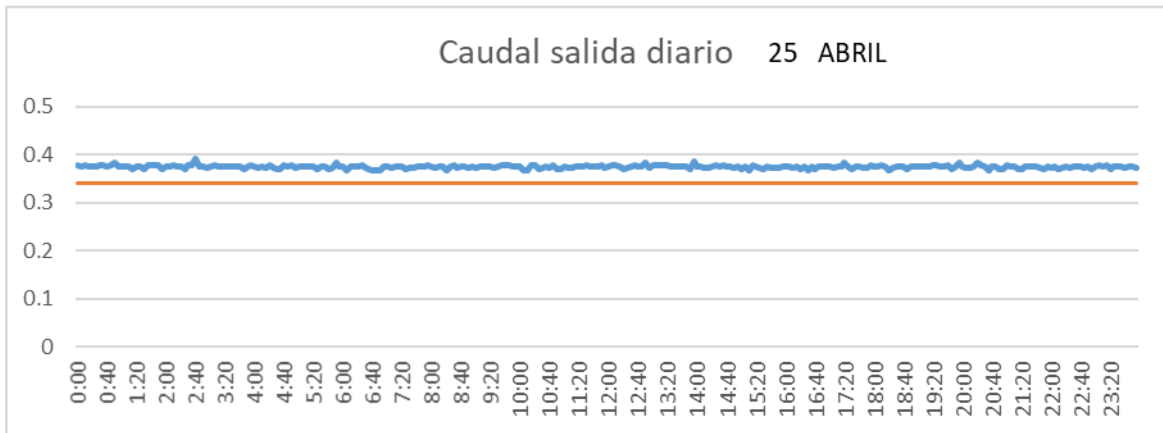
CUENCA



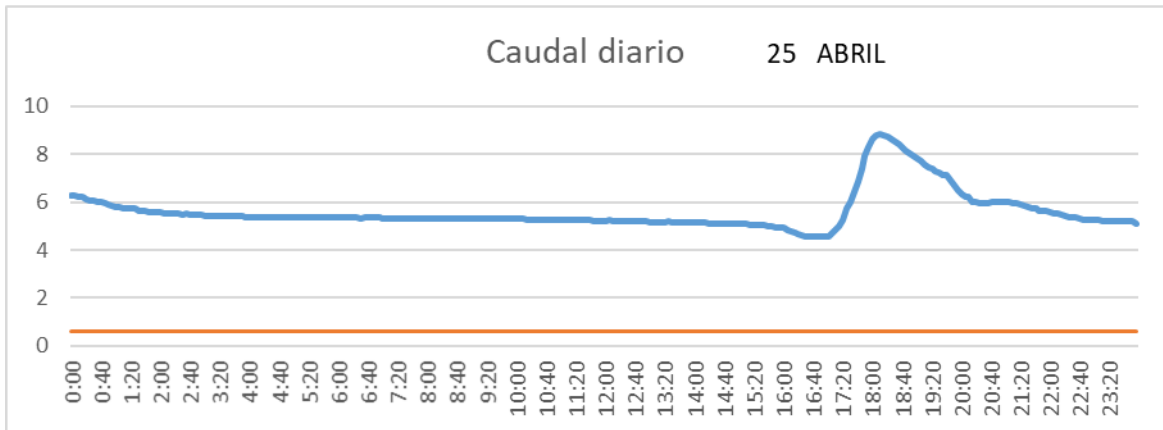
SAN LORENZO PARRILLA



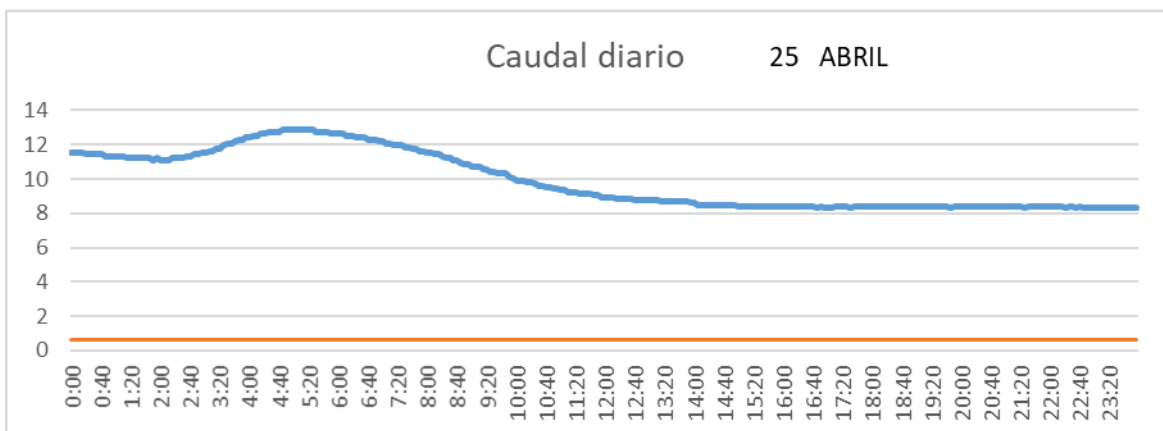
SALIDA TOBA



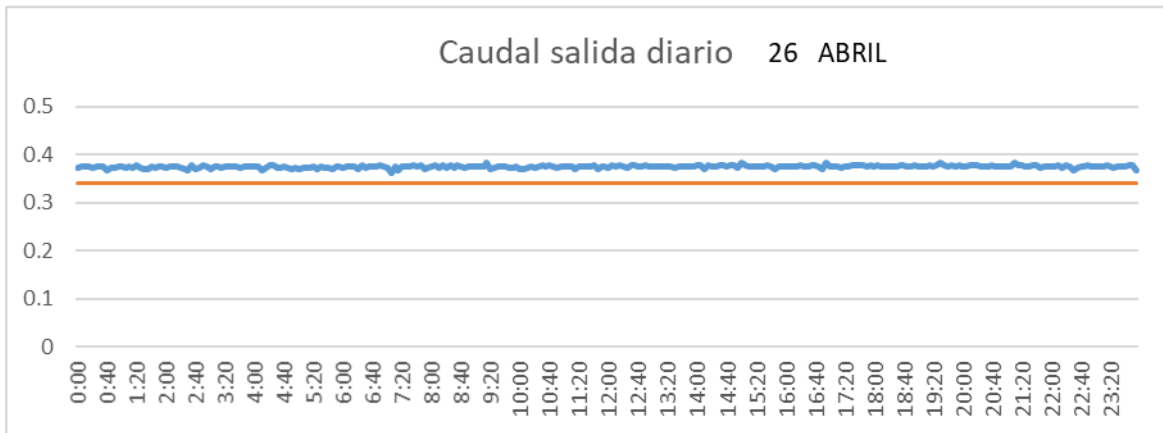
CUENCA



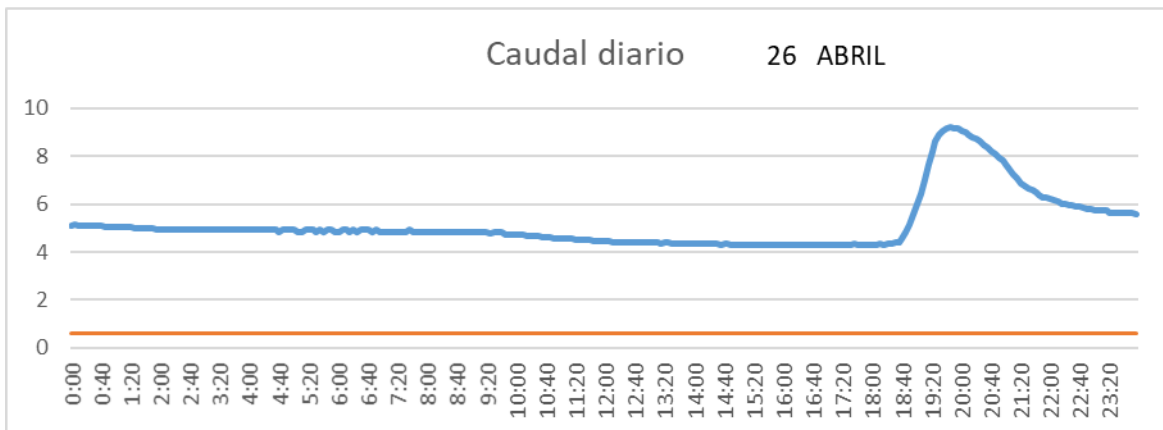
SAN LORENZO PARRILLA



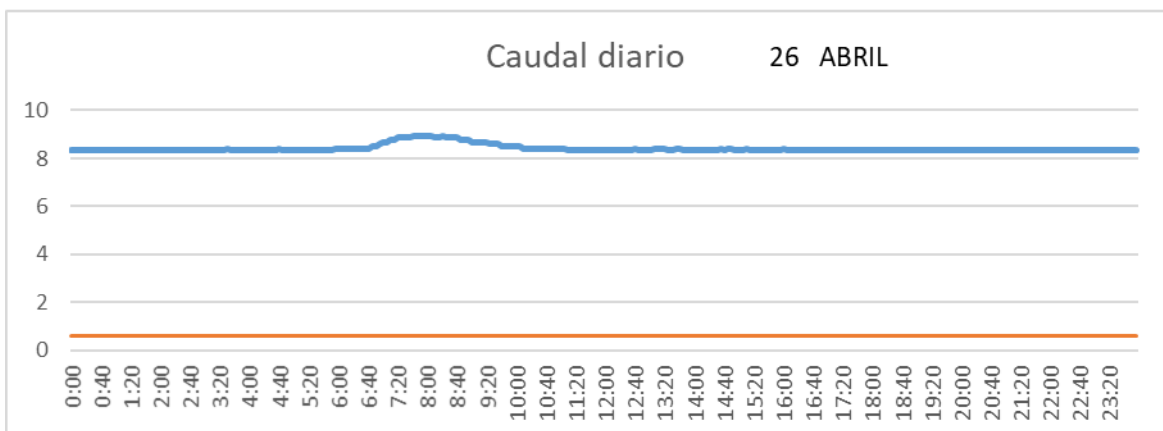
SALIDA TOBA



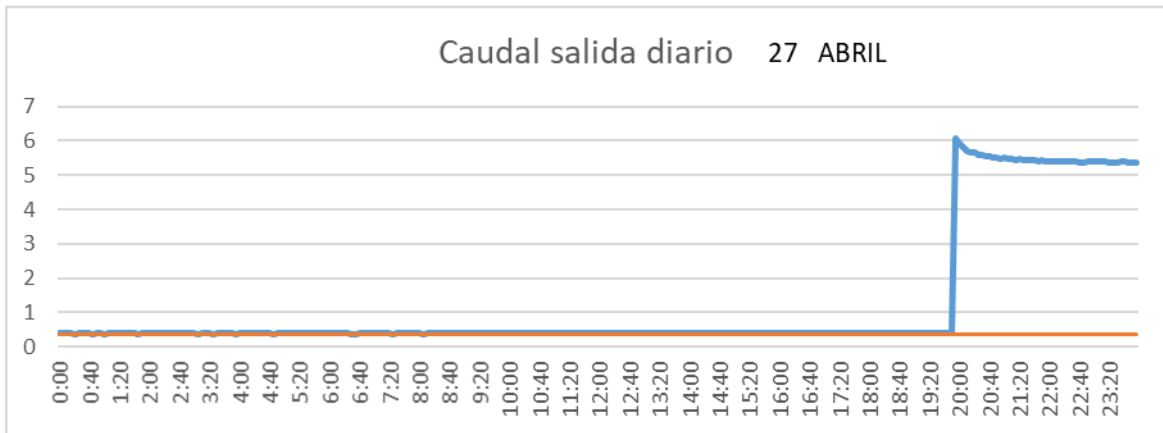
CUENCA



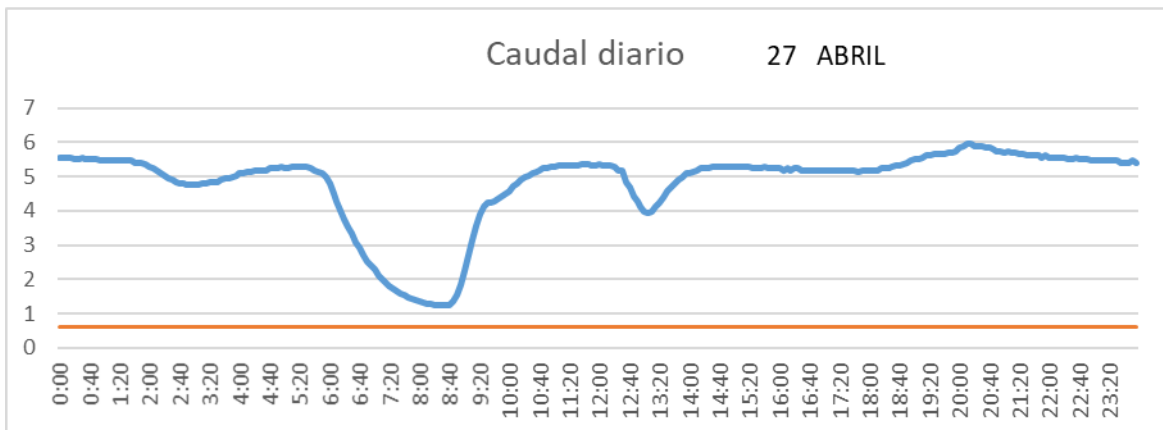
SAN LORENZO PARRILLA



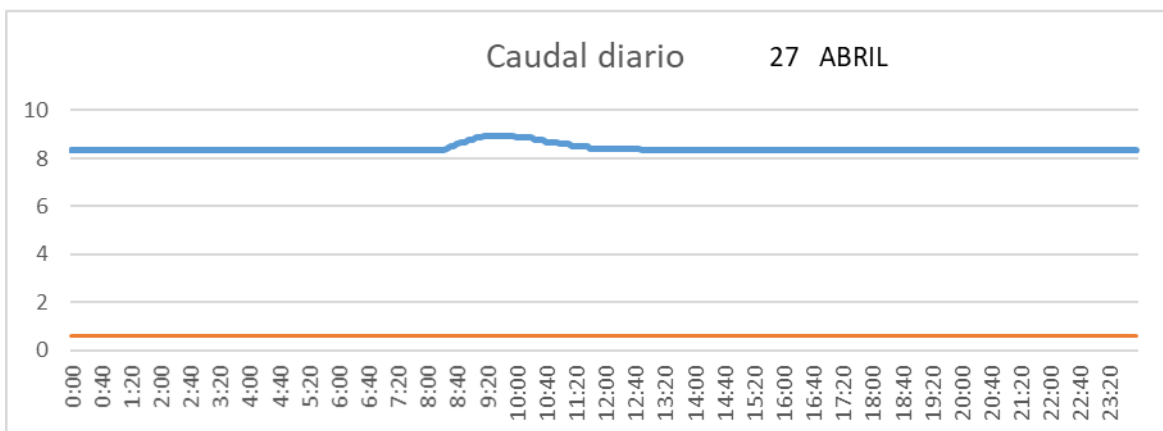
SALIDA TOBA



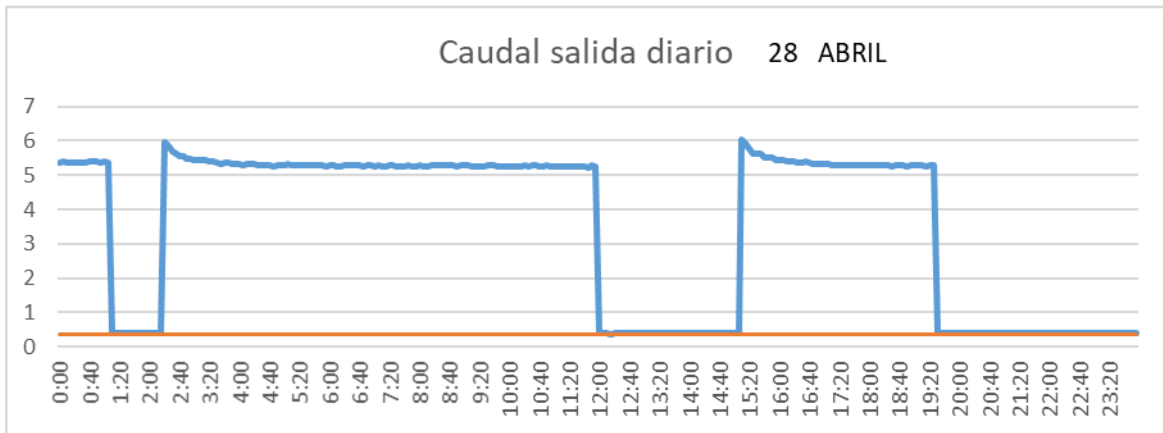
CUENCA



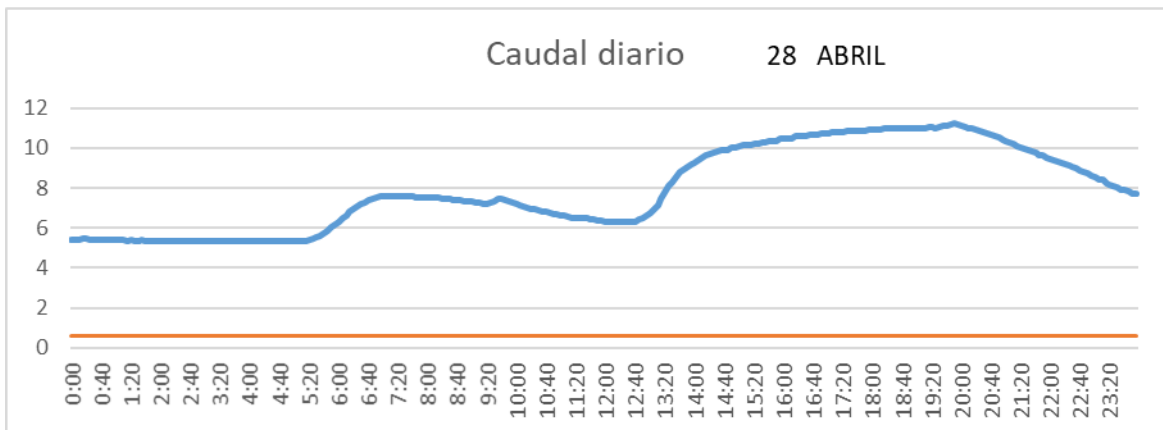
SAN LORENZO PARRILLA



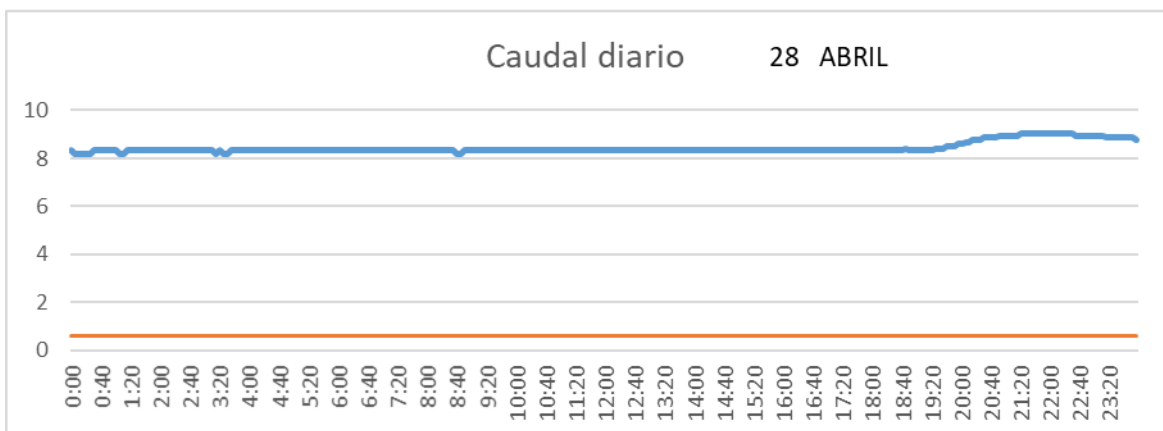
SALIDA TOBA



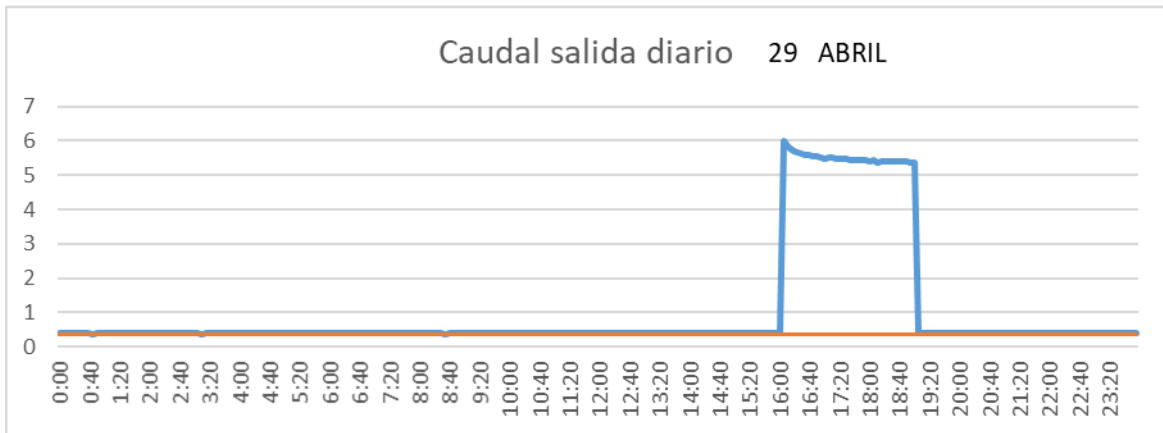
CUENCA



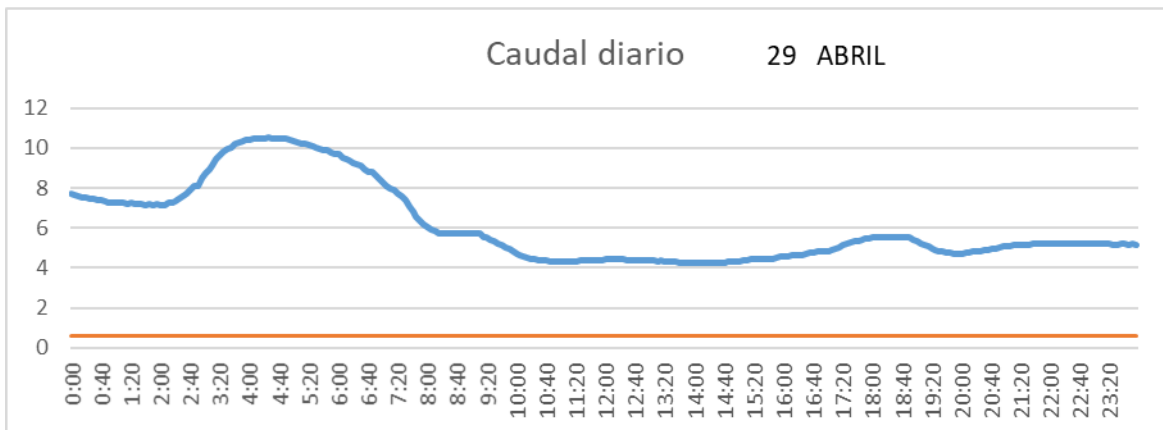
SAN LORENZO PARRILLA



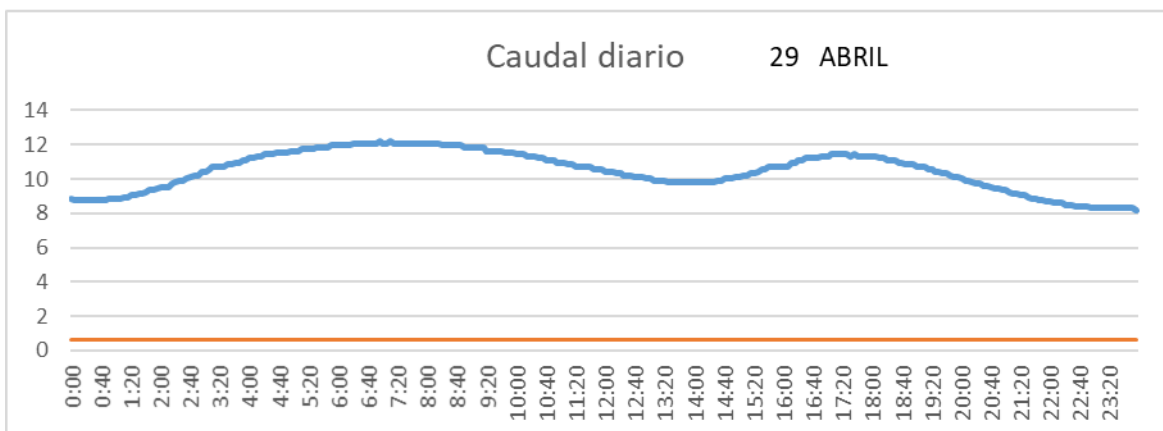
SALIDA TOBA



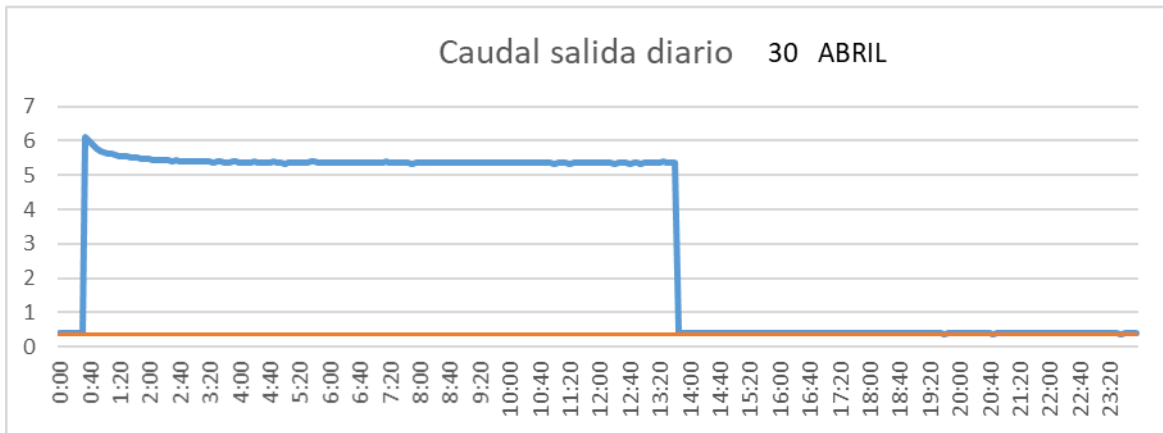
CUENCA



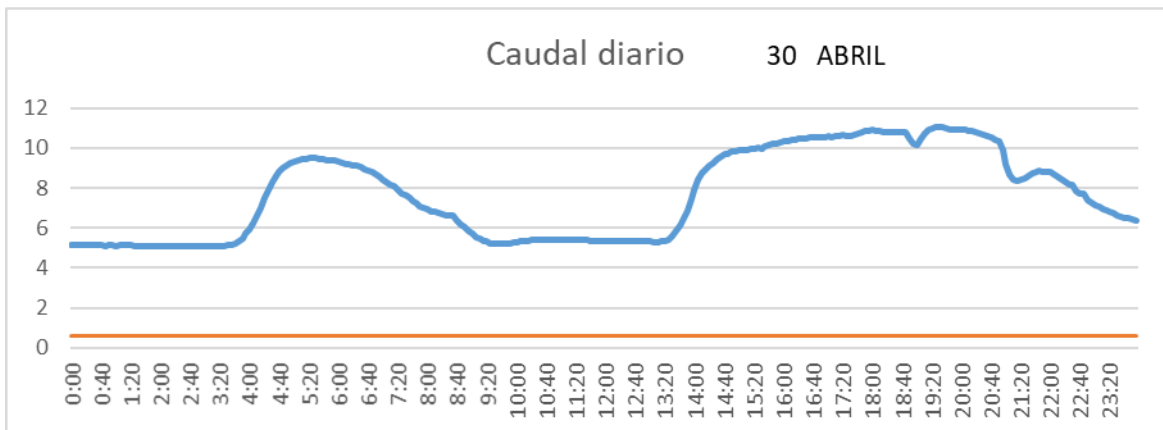
SAN LORENZO PARRILLA



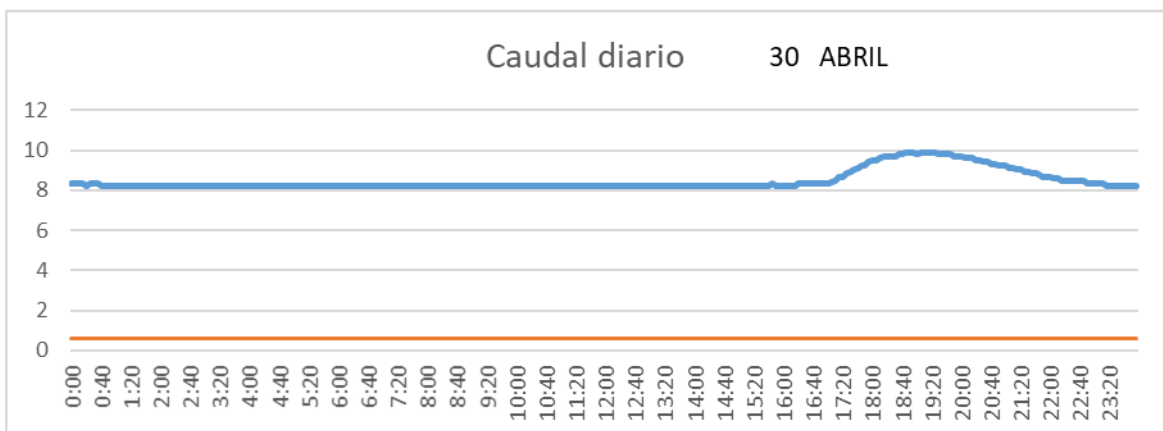
SALIDA TOBA



CUENCA

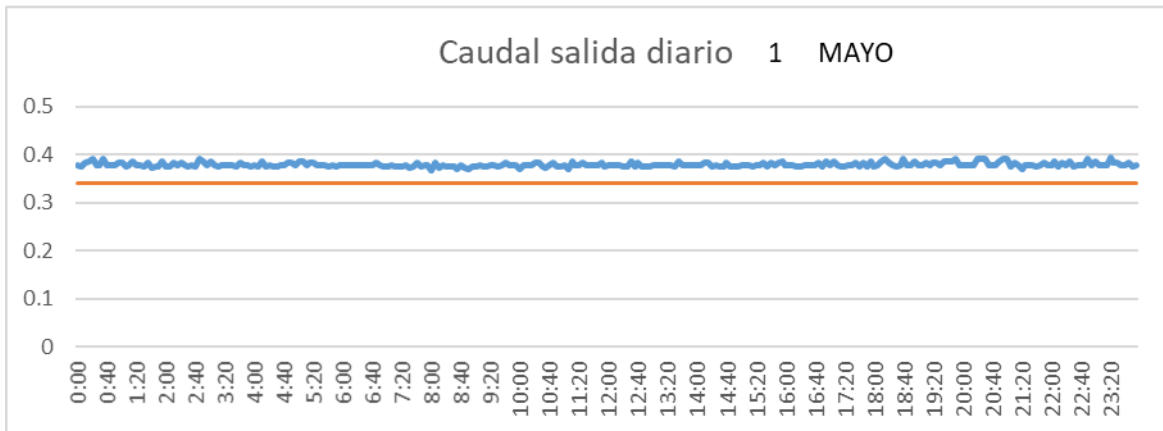


SAN LORENZO PARRILLA

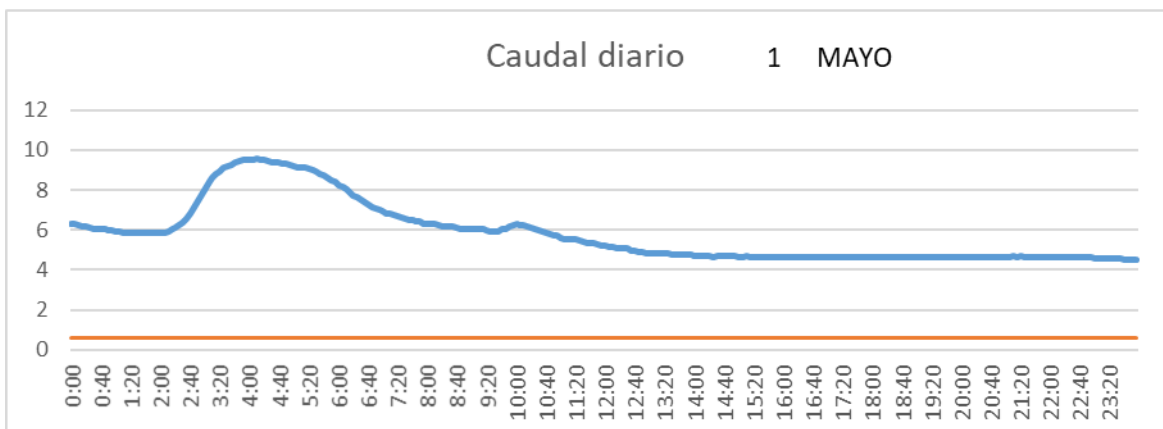


2.1.5 Mayo

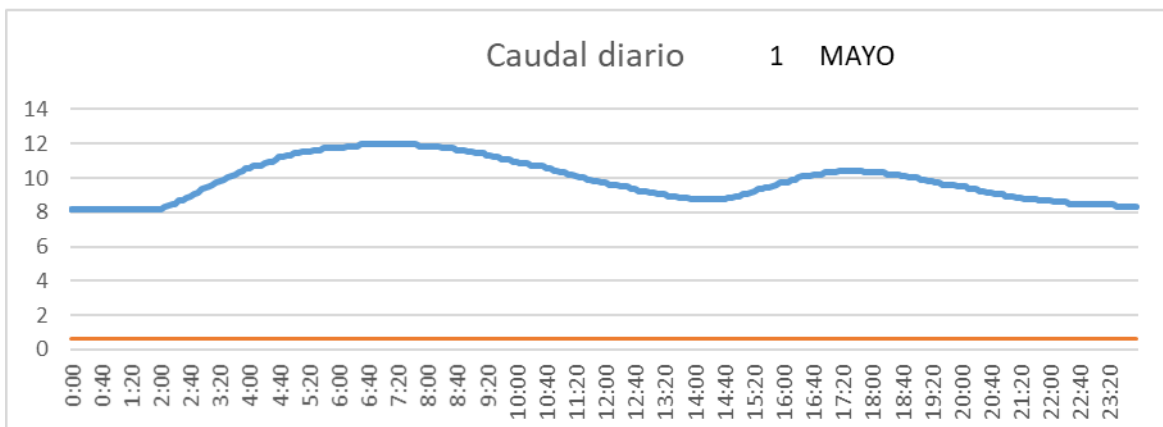
SALIDA TOBA



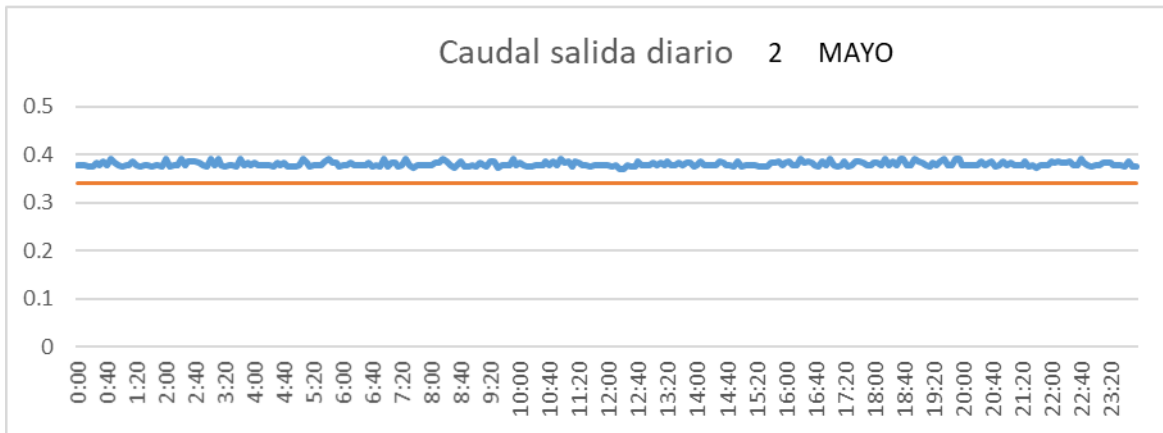
CUENCA



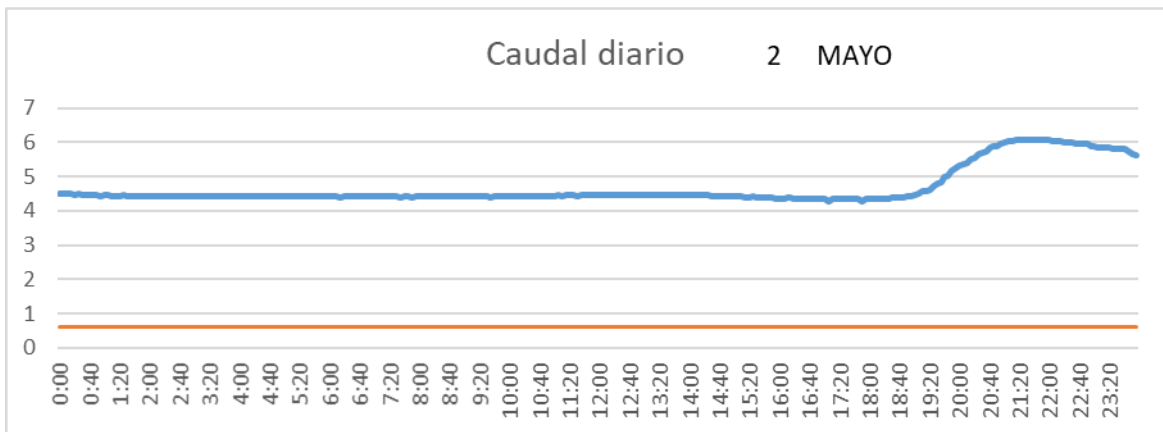
SAN LORENZO PARRILLA



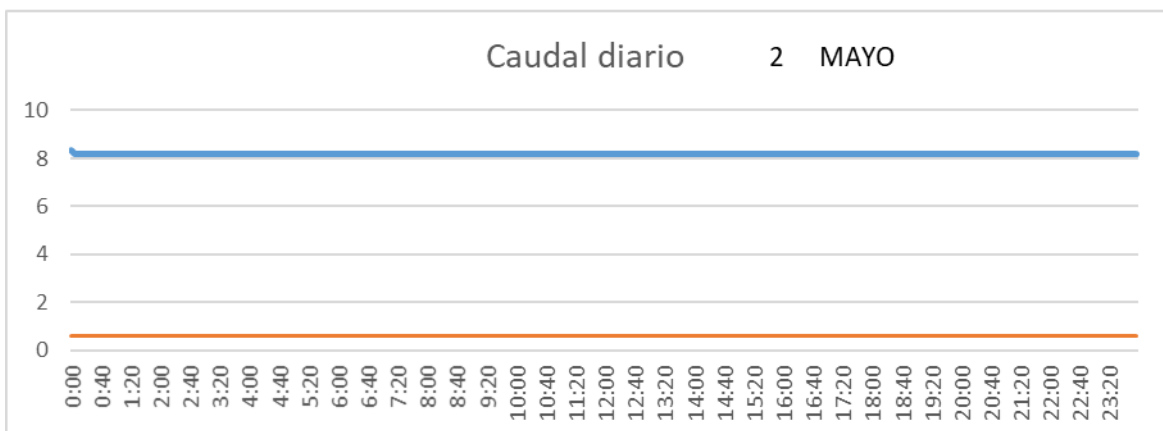
SALIDA TOBA



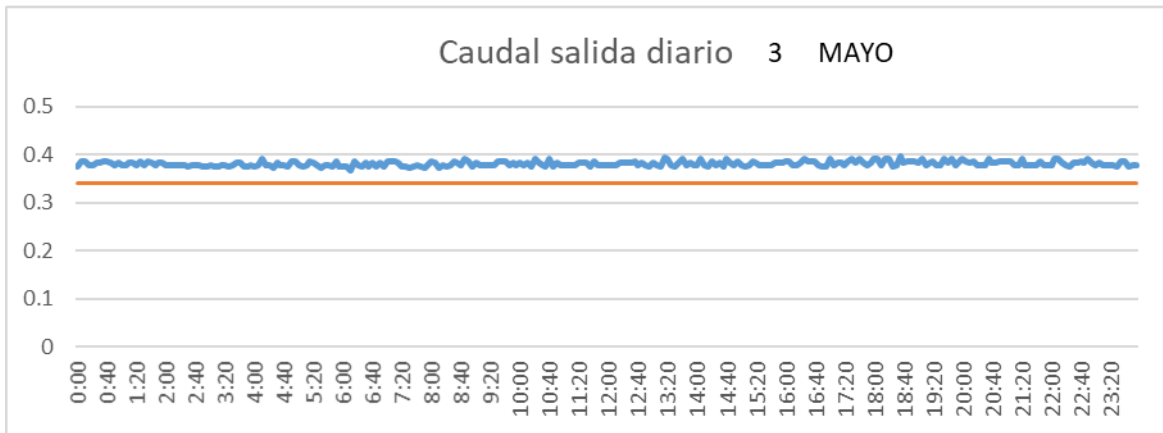
CUENCA



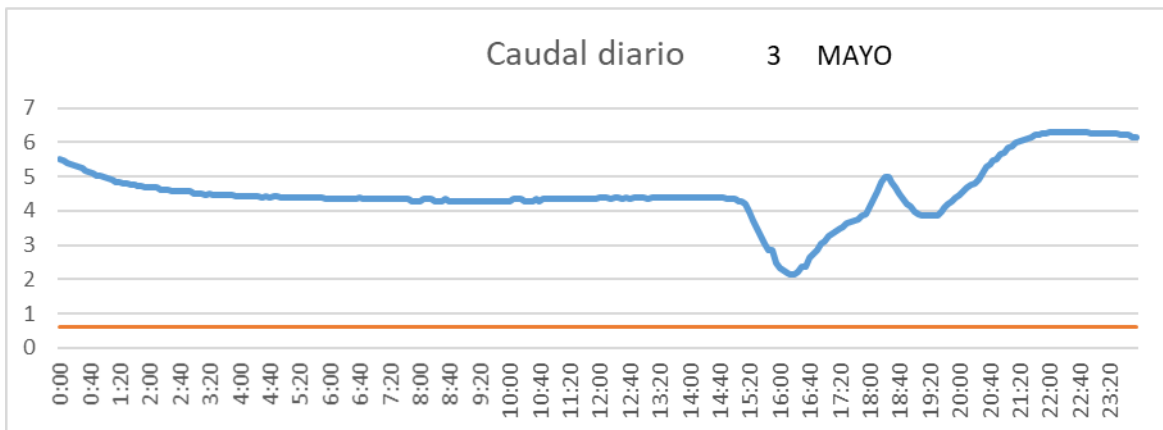
SAN LORENZO PARRILLA



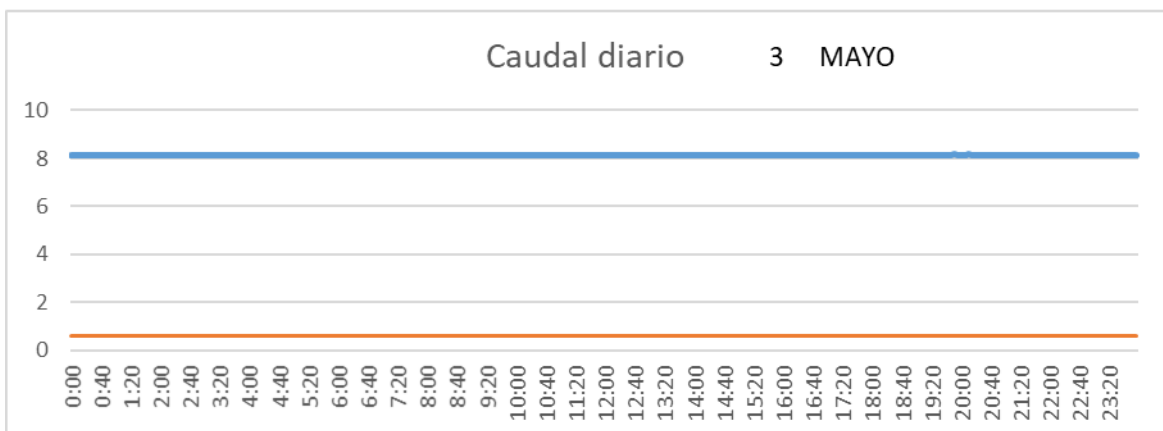
SALIDA TOBA



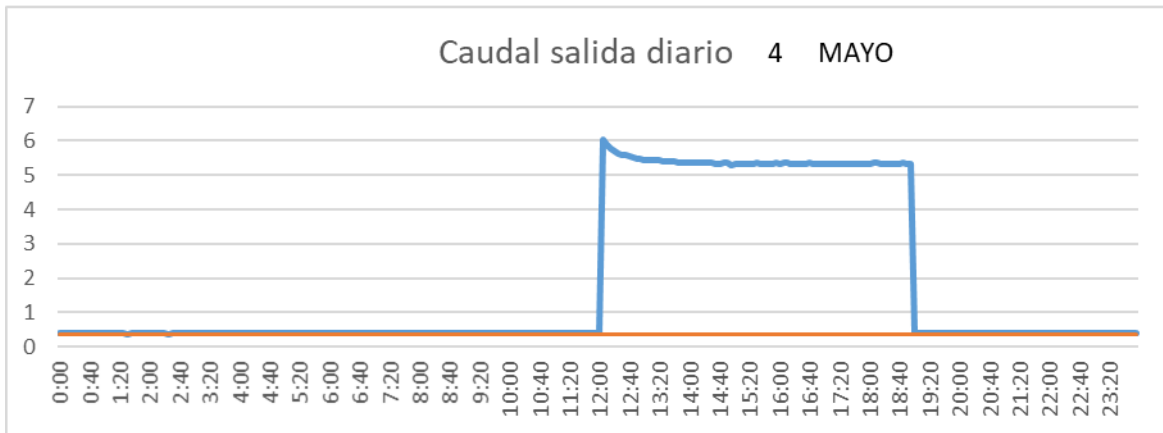
CUENCA



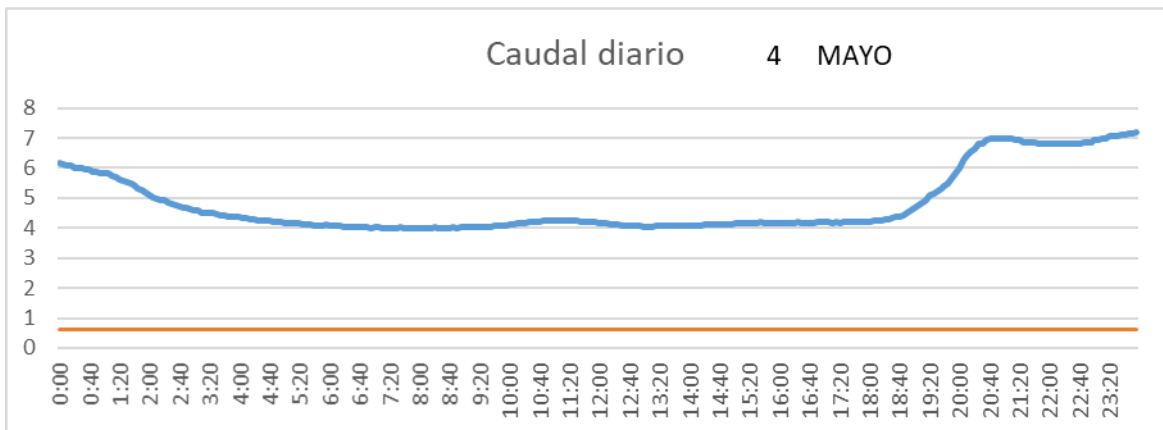
SAN LORENZO PARRILLA



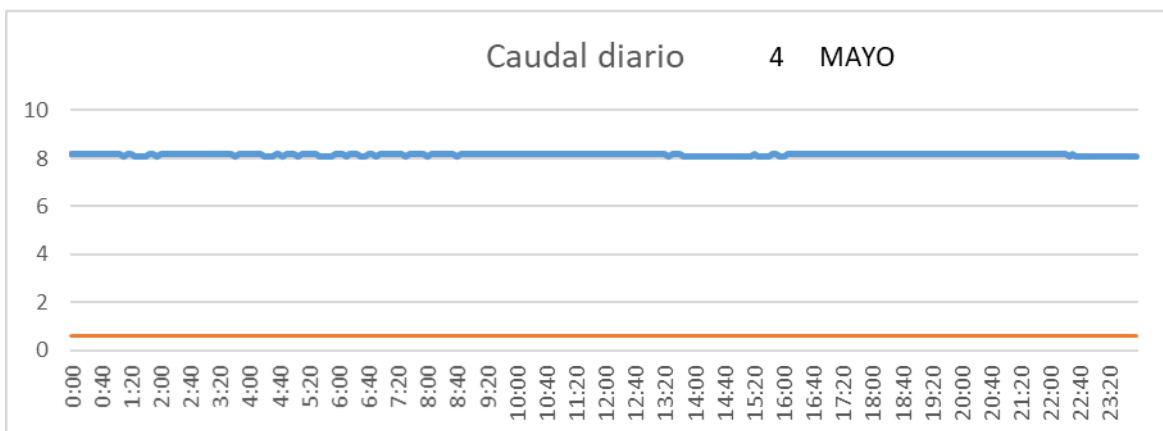
SALIDA TOBA



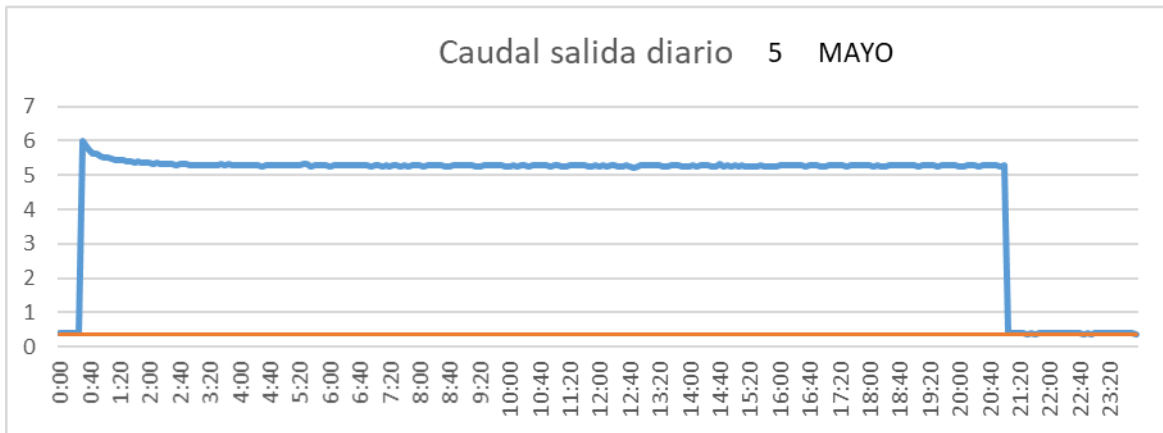
CUENCA



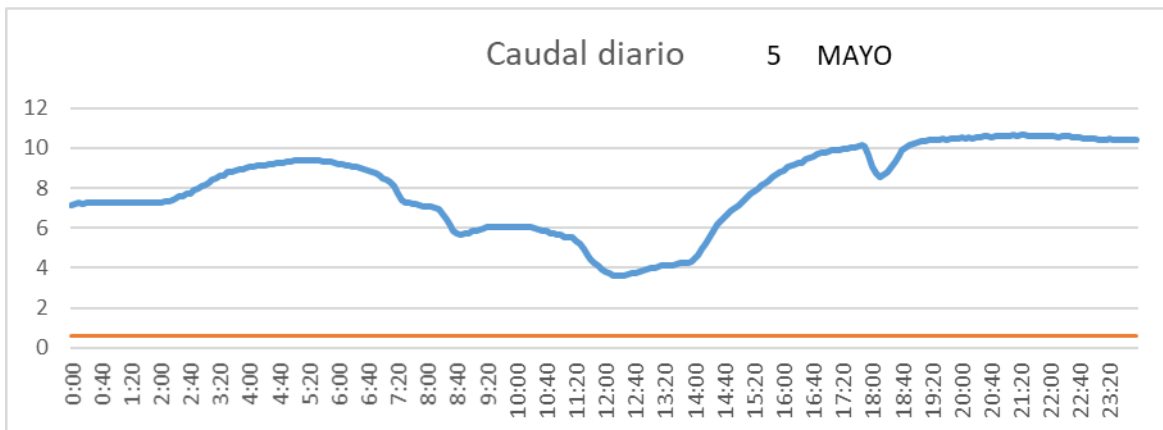
SAN LORENZO PARRILLA



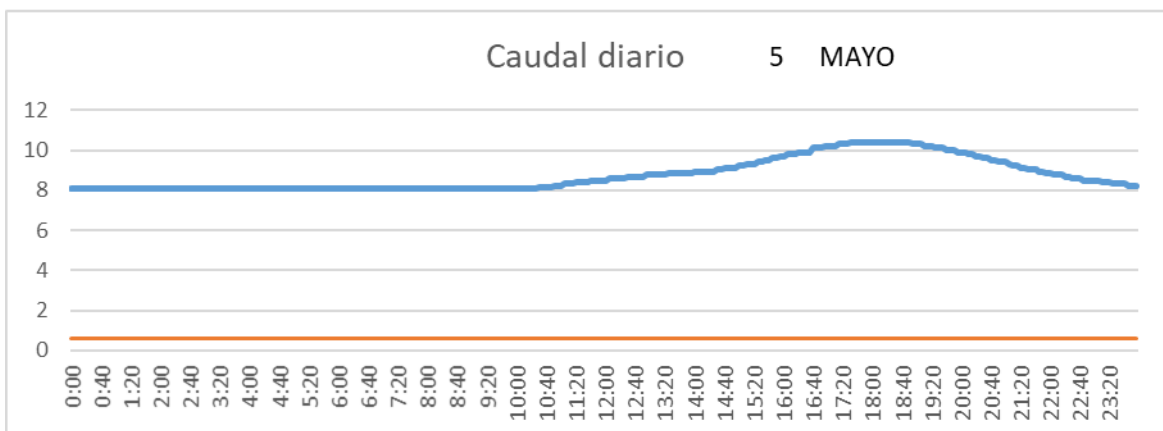
SALIDA TOBA



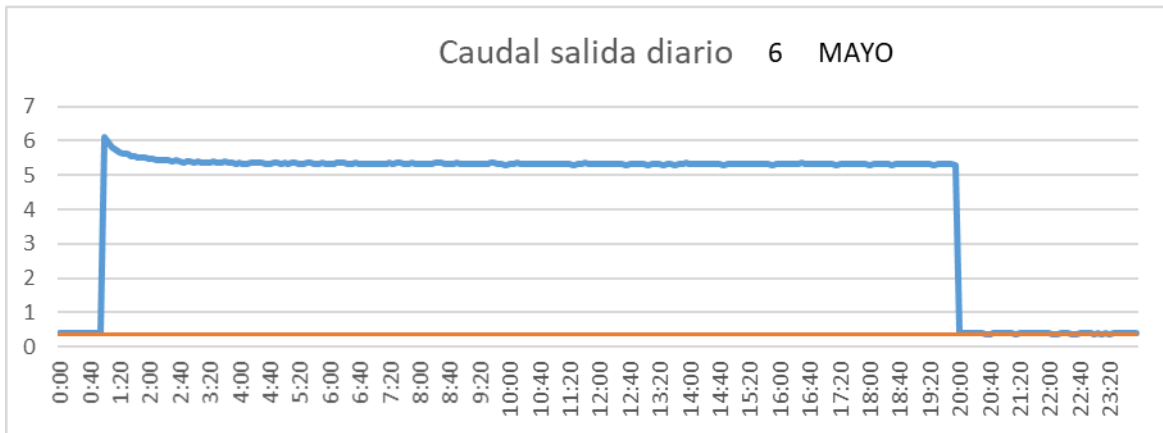
CUENCA



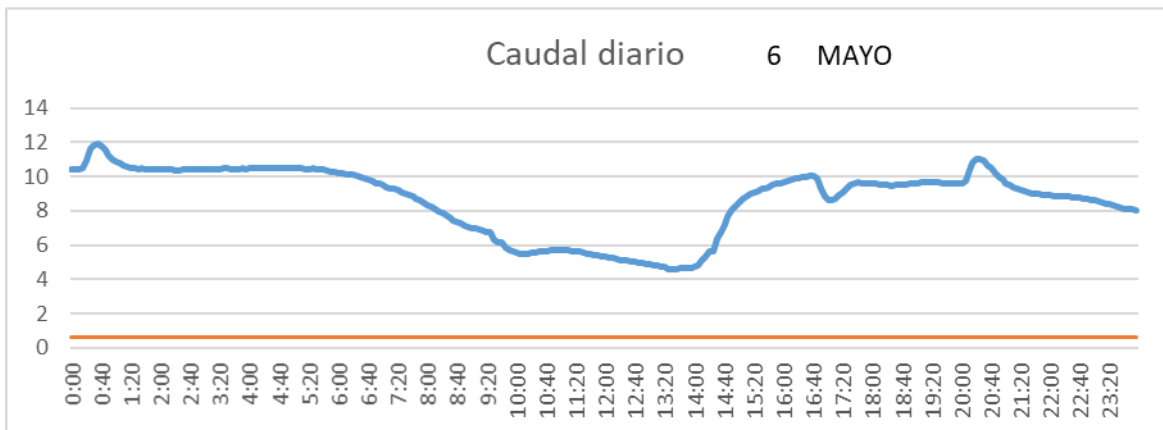
SAN LORENZO PARRILLA



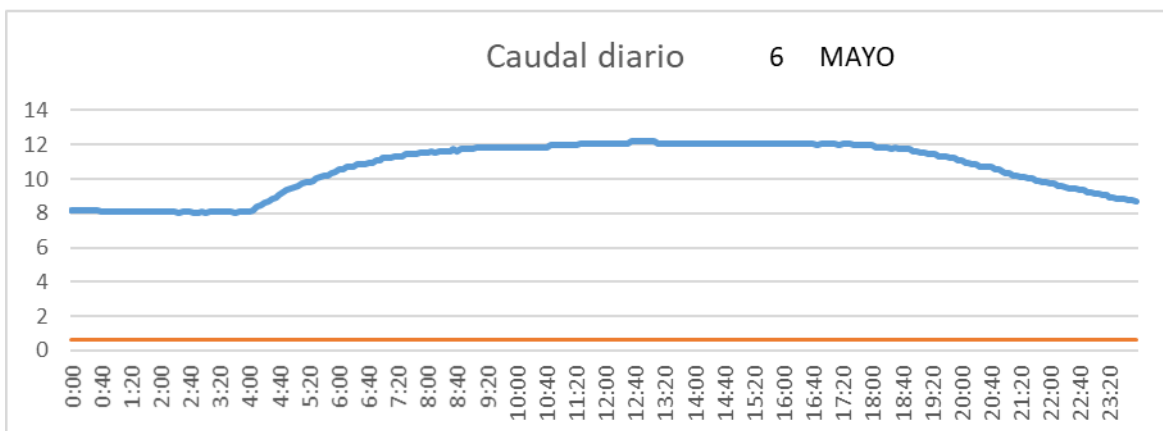
SALIDA TOBA



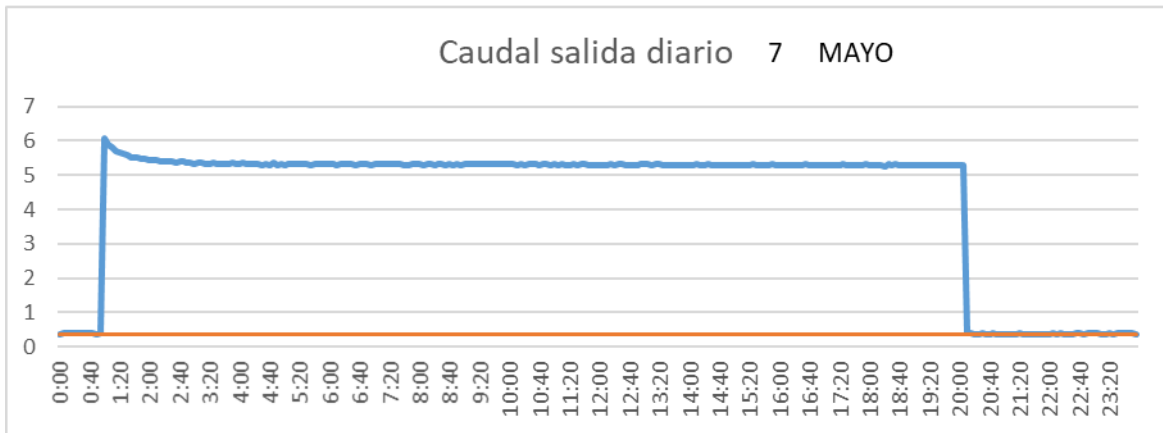
CUENCA



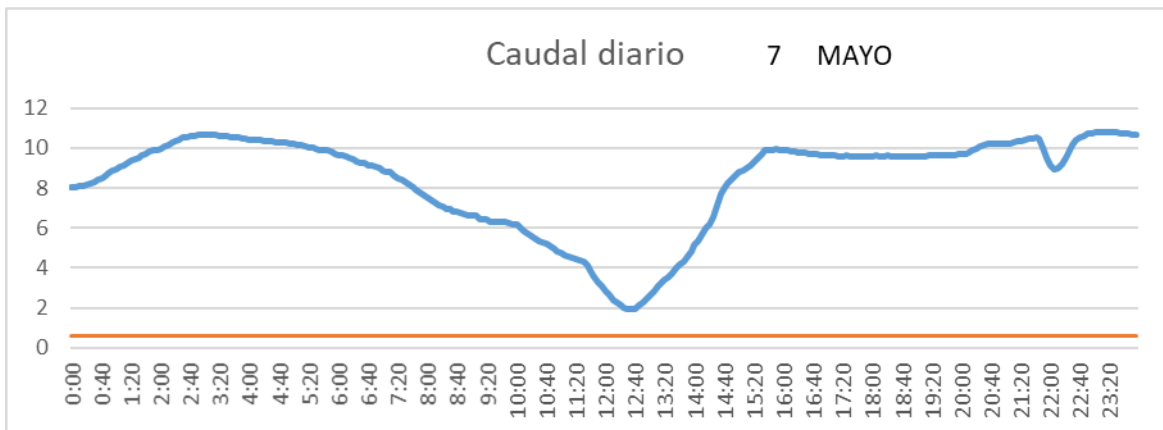
SAN LORENZO PARRILLA



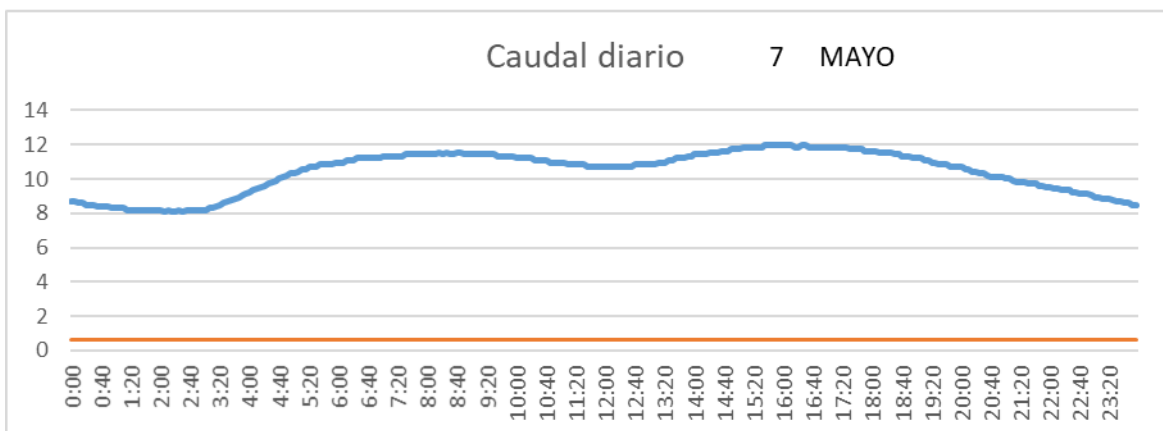
SALIDA TOBA



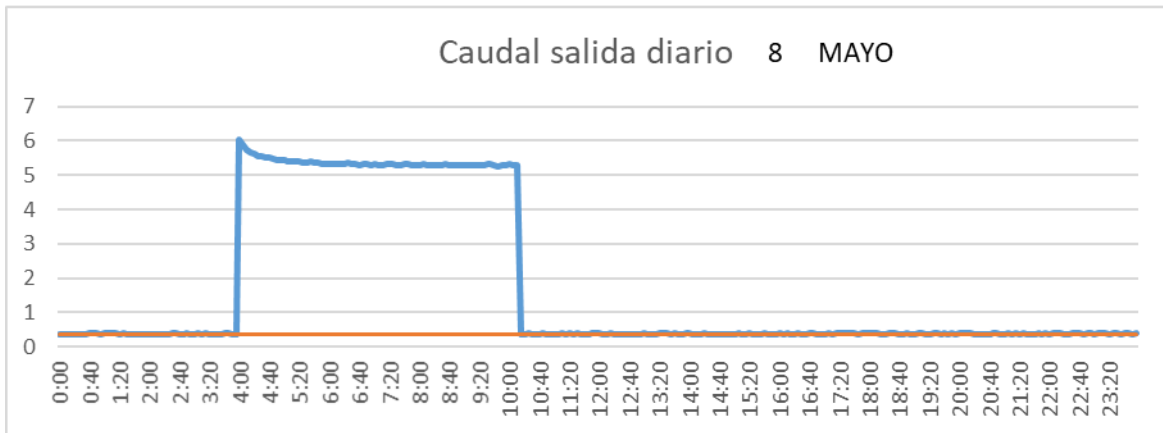
CUENCA



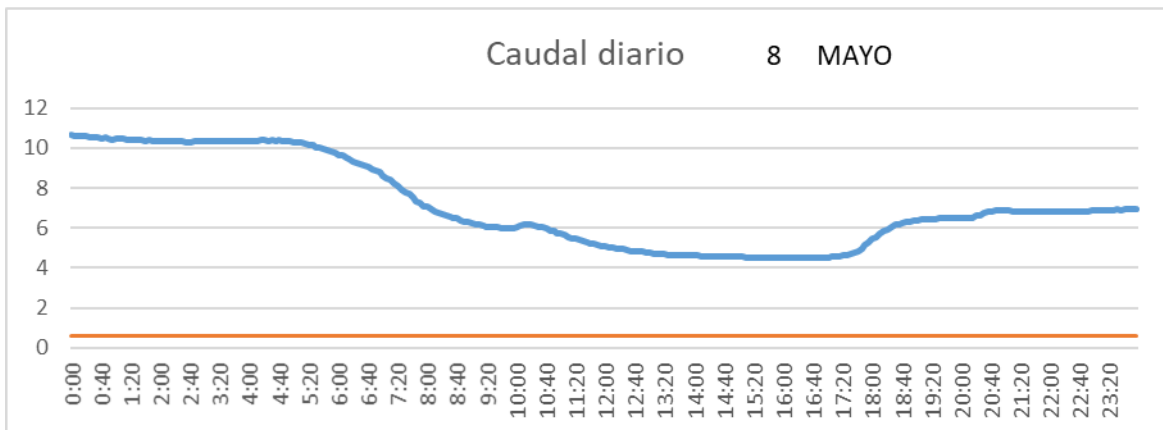
SAN LORENZO PARRILLA



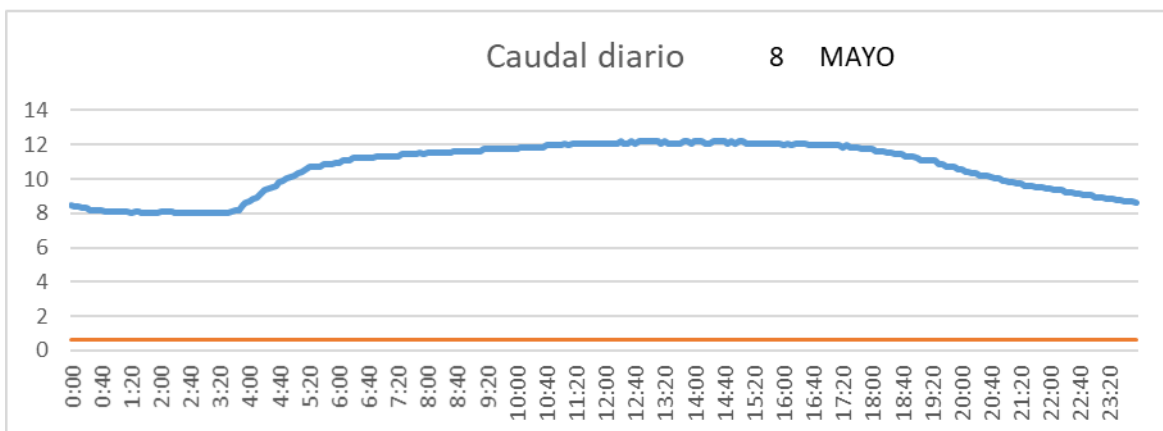
SALIDA TOBA



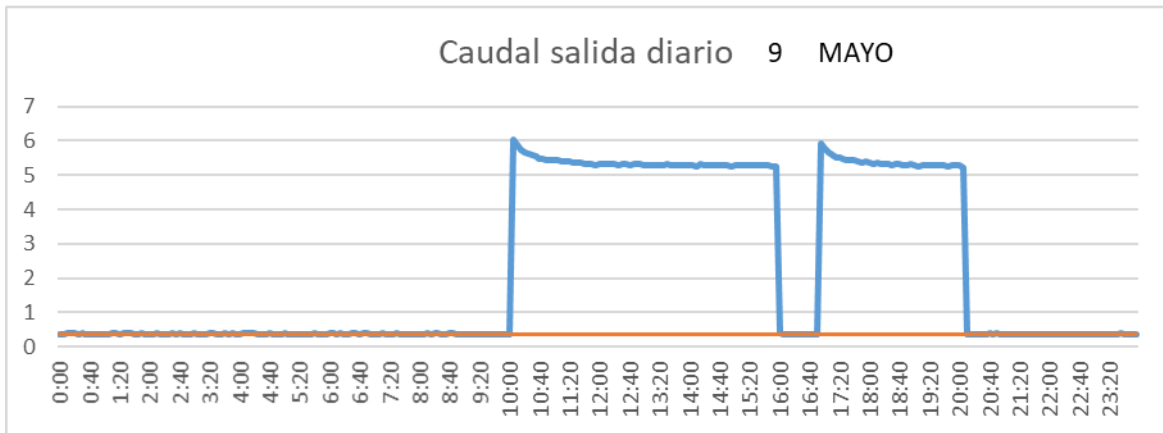
CUENCA



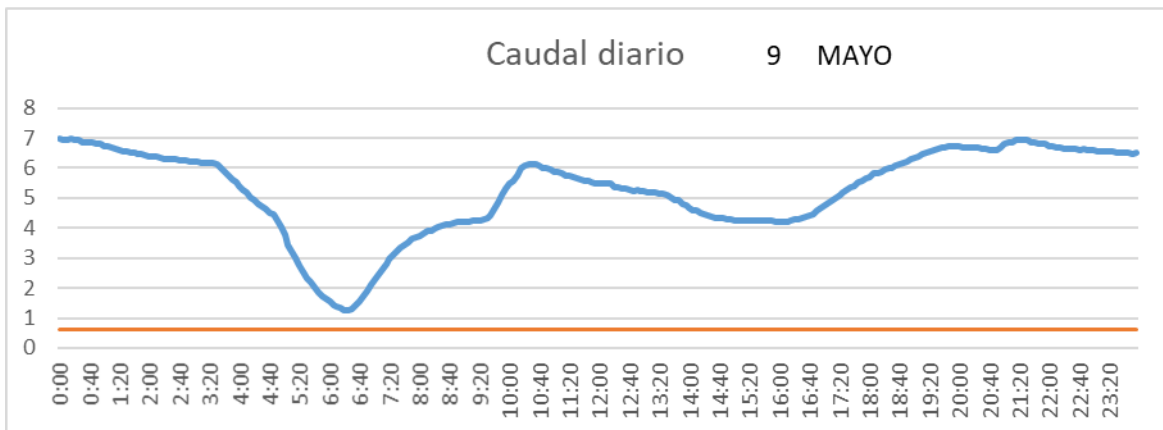
SAN LORENZO PARRILLA



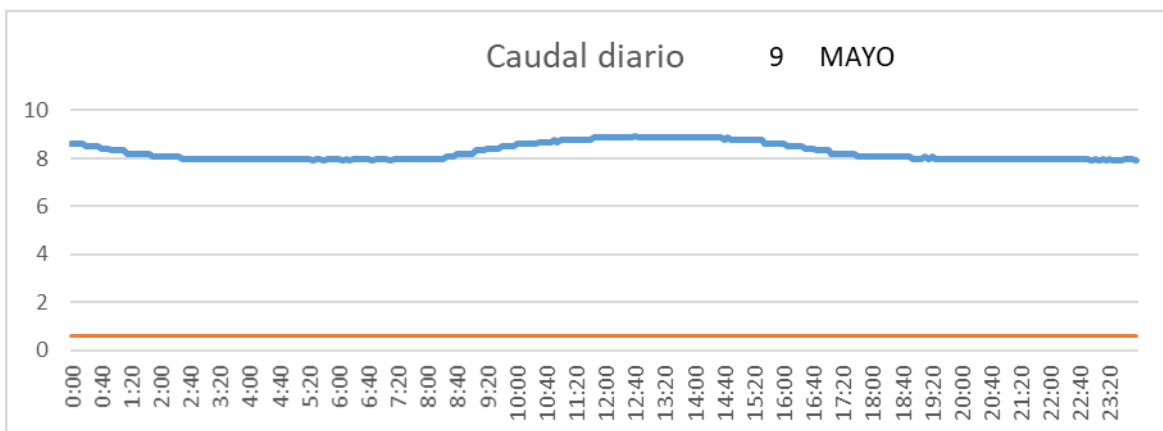
SALIDA TOBA



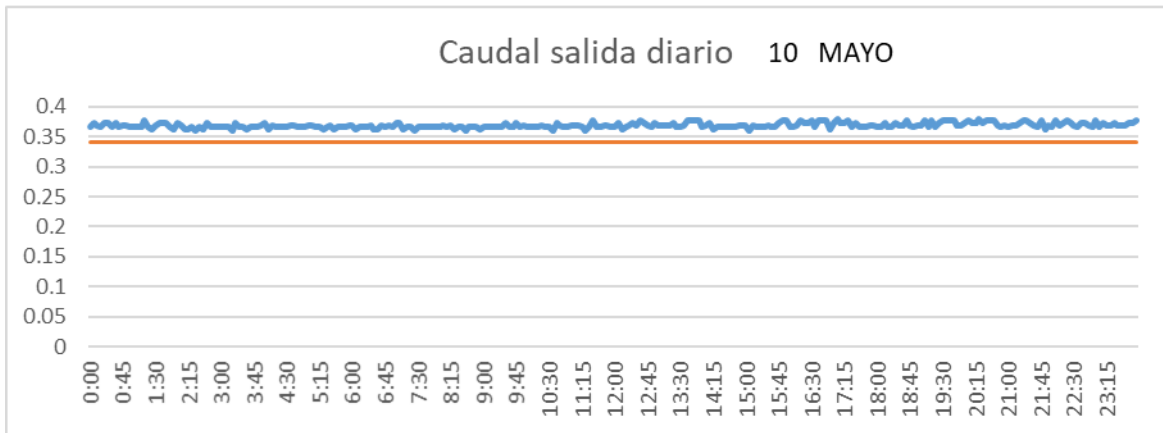
CUENCA



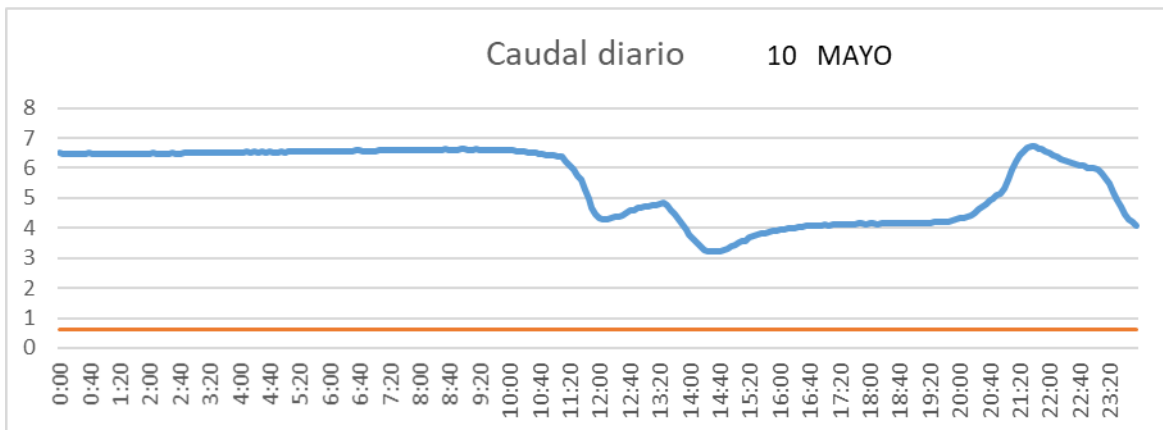
SAN LORENZO PARRILLA



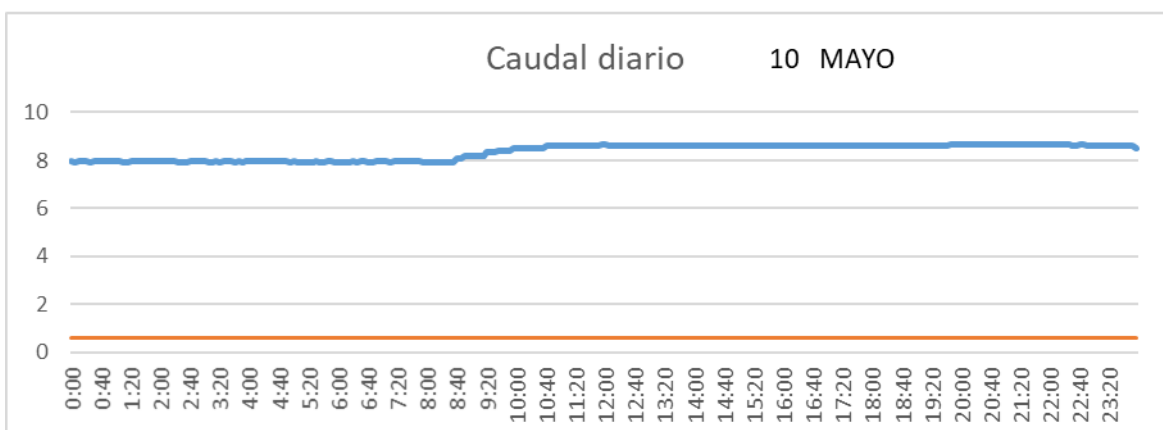
SALIDA TOBA



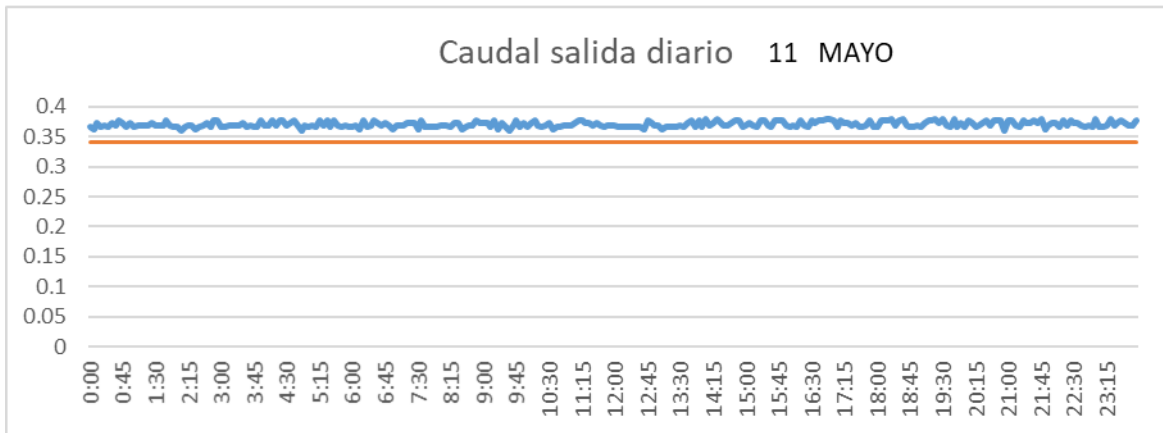
CUENCA



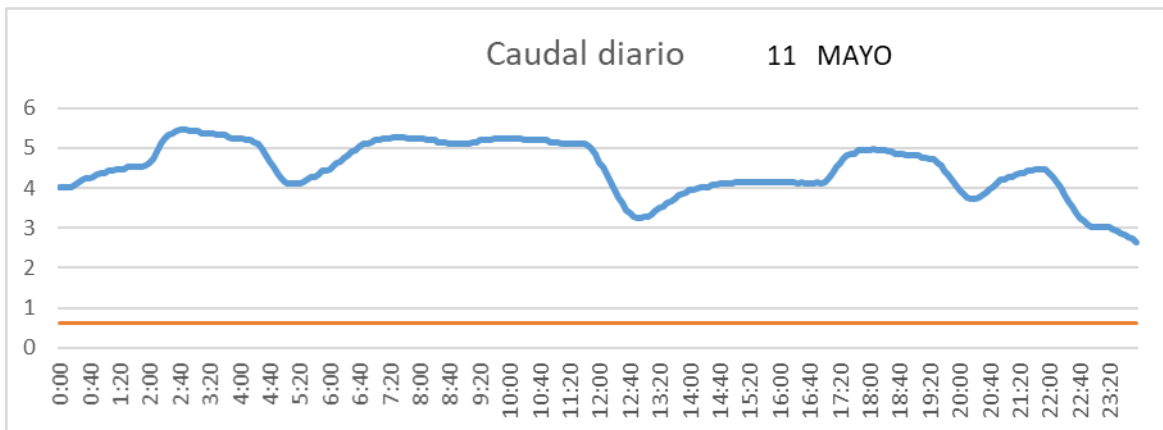
SAN LORENZO PARRILLA



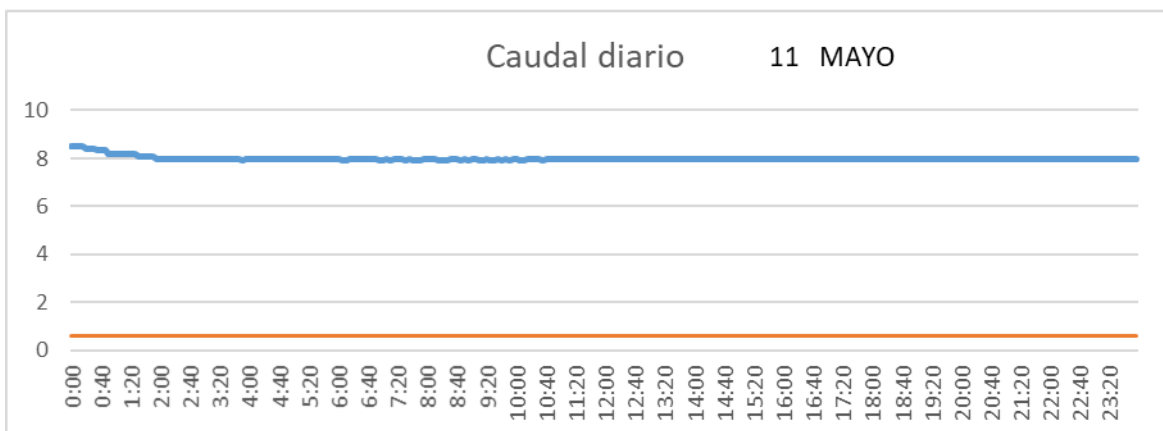
SALIDA TOBA



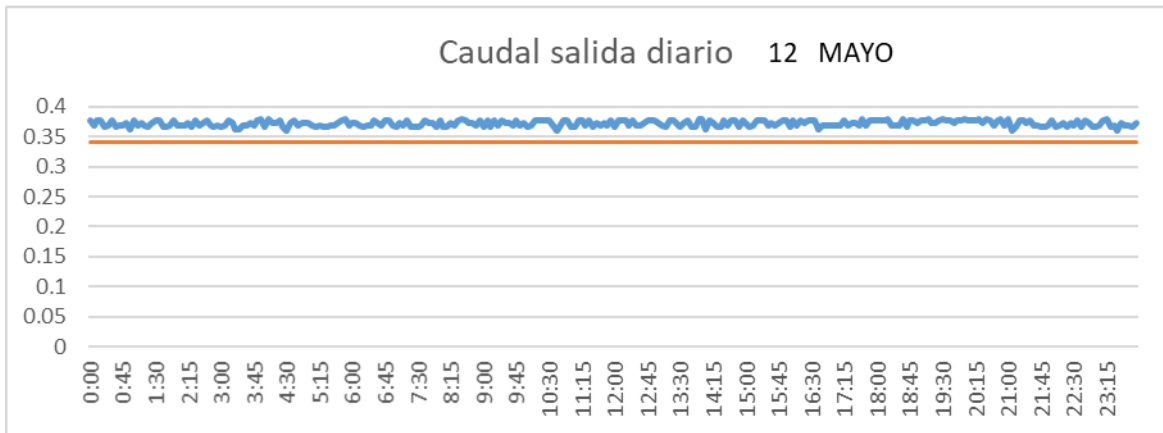
CUENCA



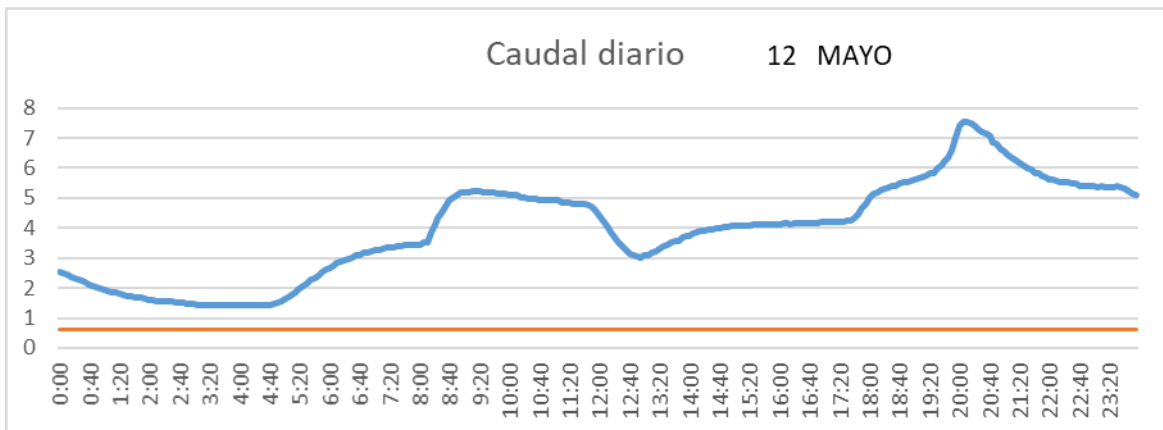
SAN LORENZO PARRILLA



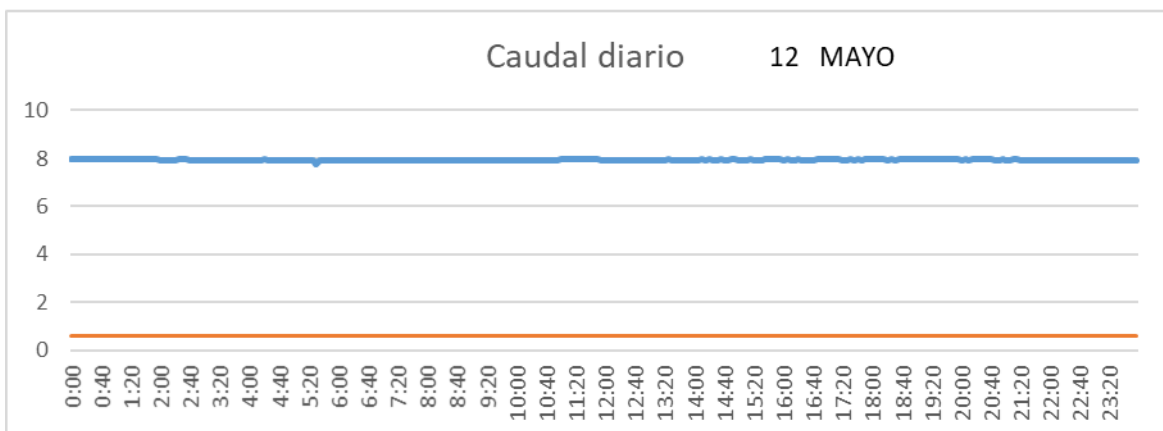
SALIDA TOBA



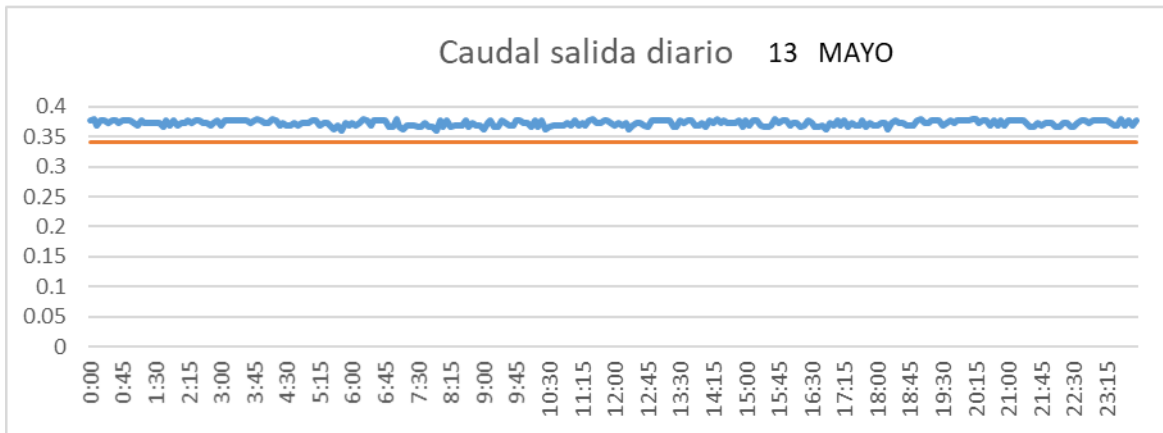
CUENCA



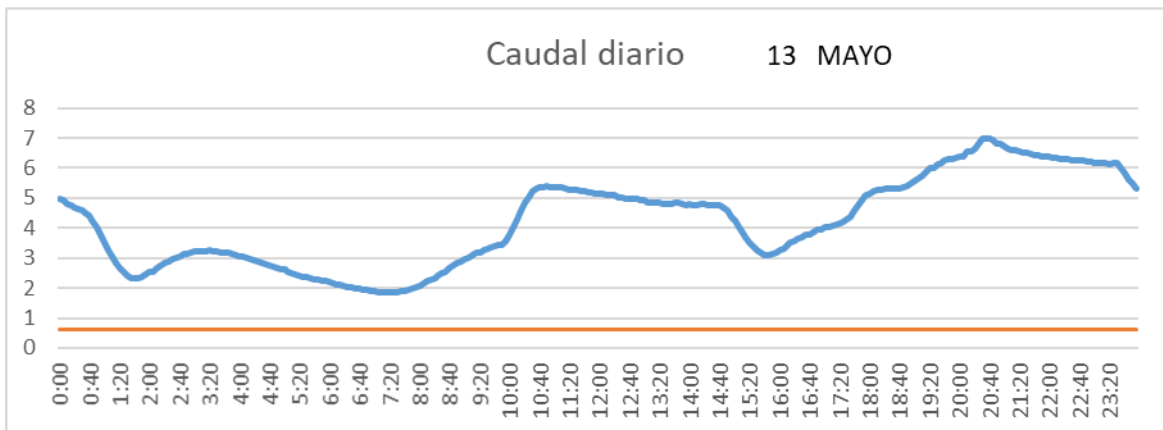
SAN LORENZO PARRILLA



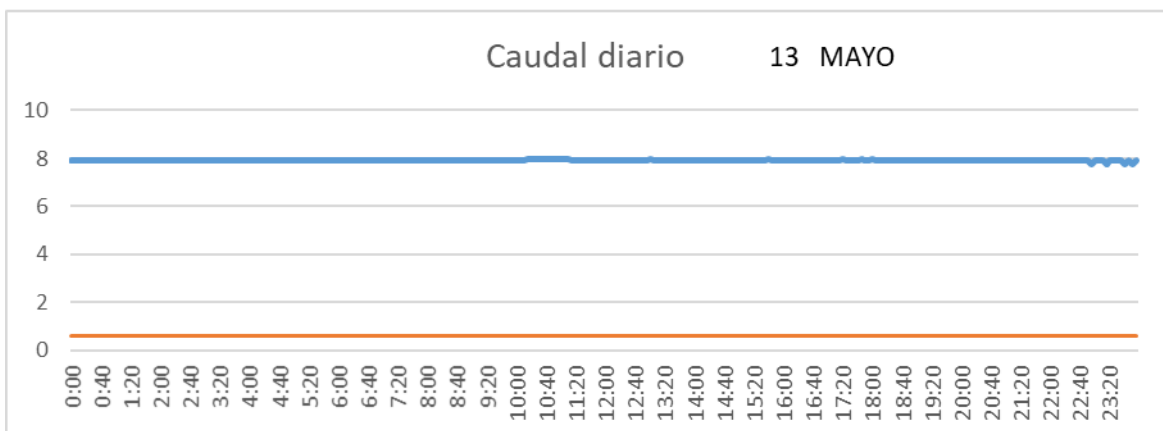
SALIDA TOBA



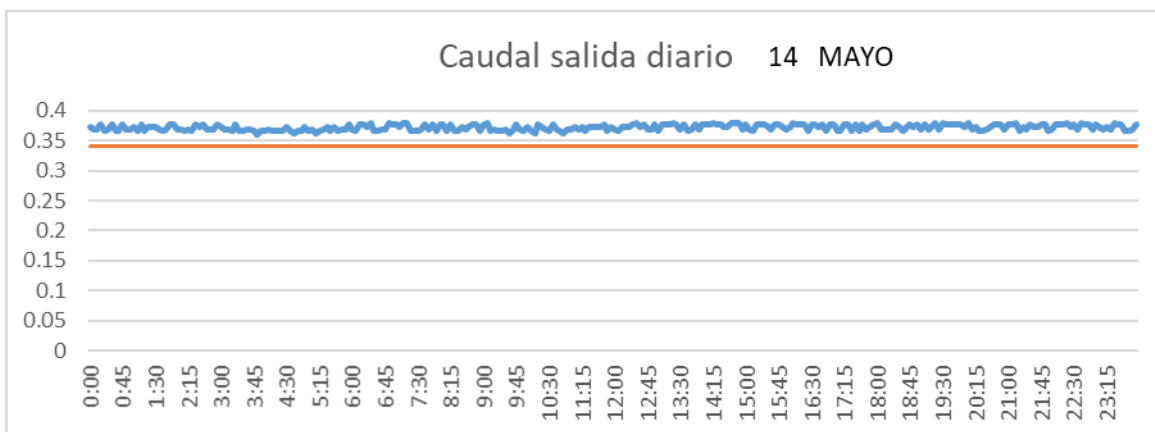
CUENCA



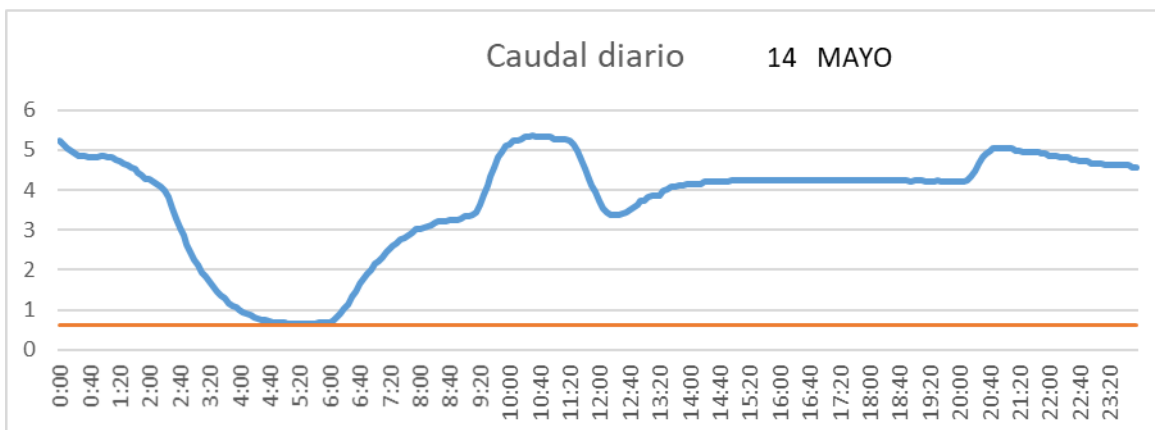
SAN LORENZO PARRILLA



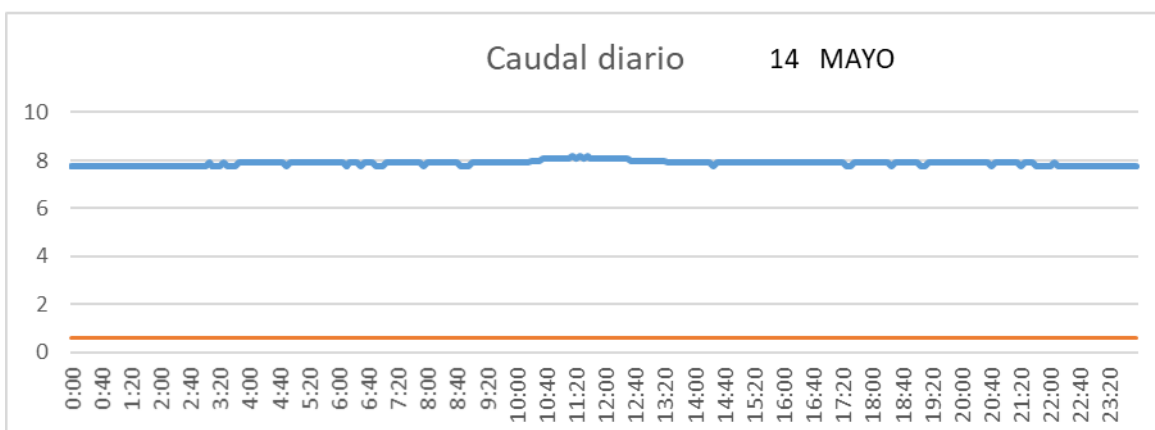
SALIDA TOBA



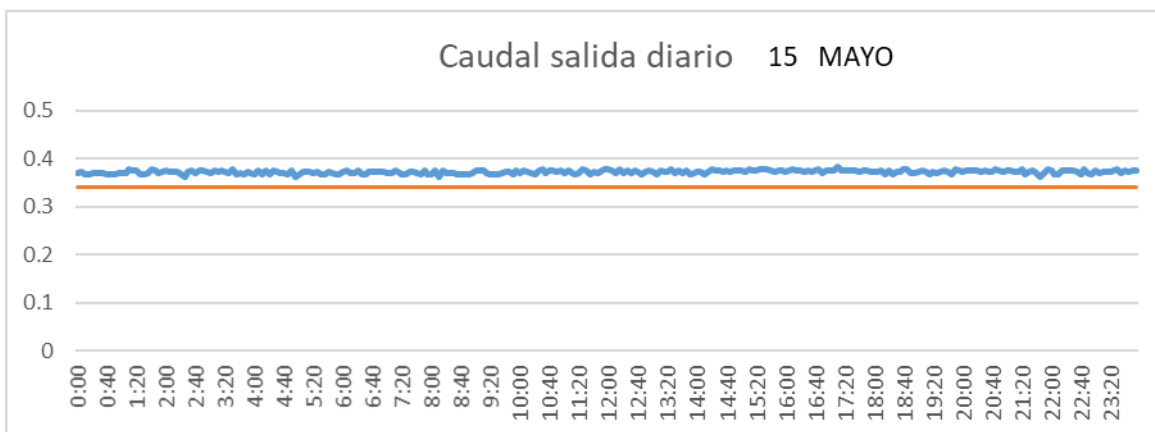
CUENCA



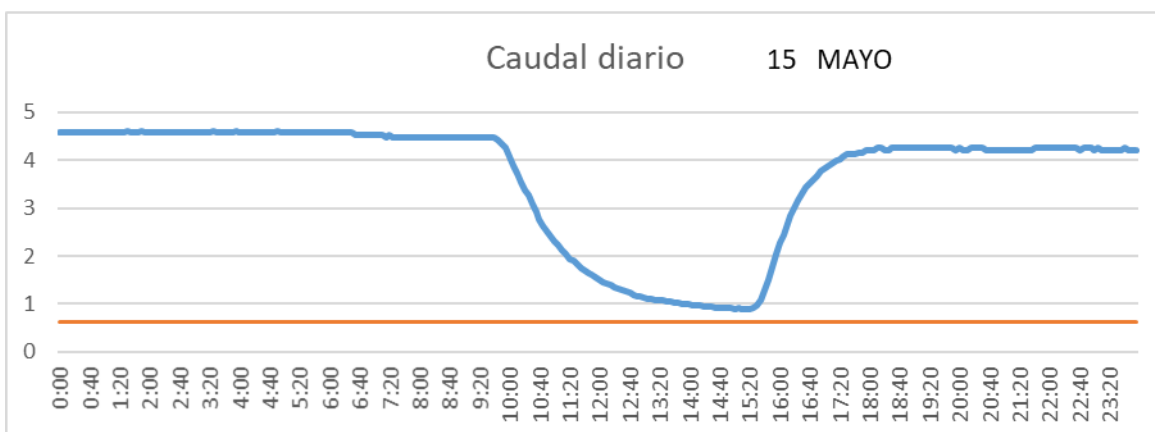
SAN LORENZO PARRILLA



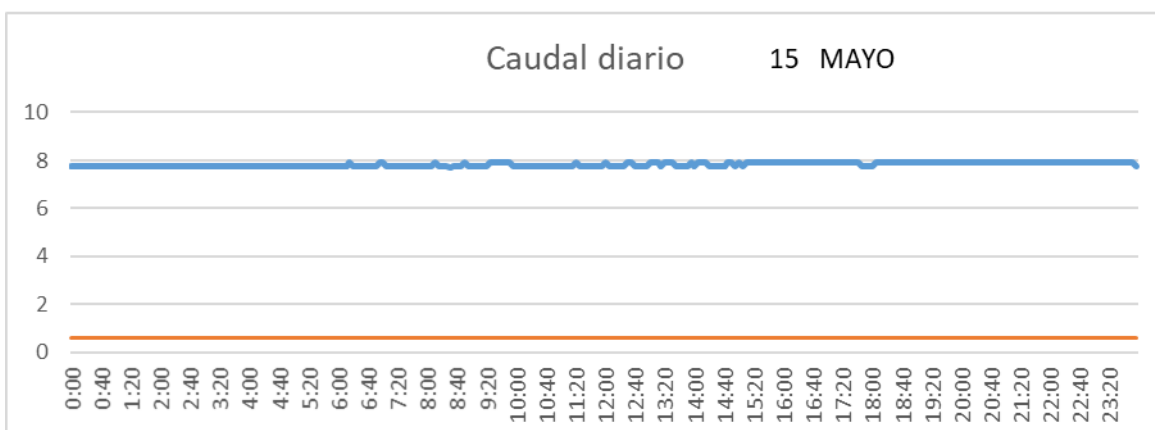
SALIDA TOBA



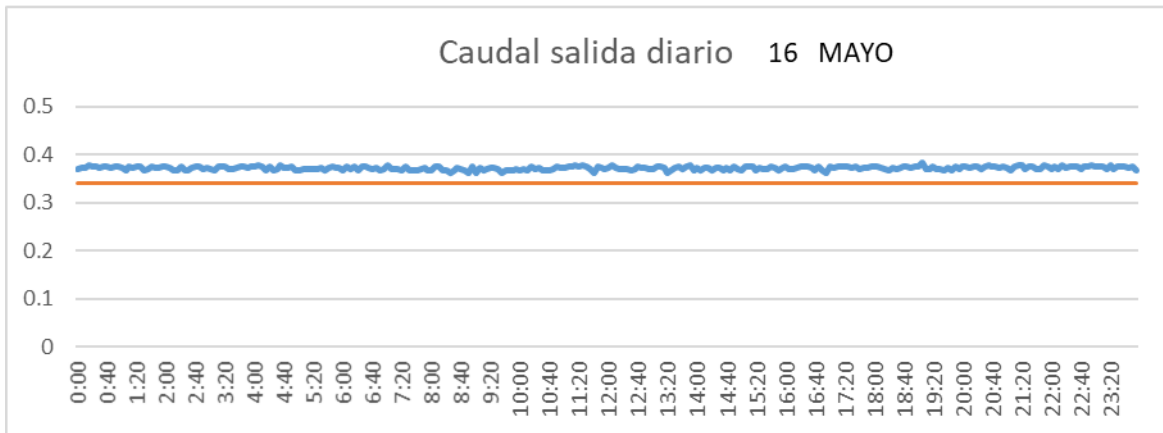
CUENCA



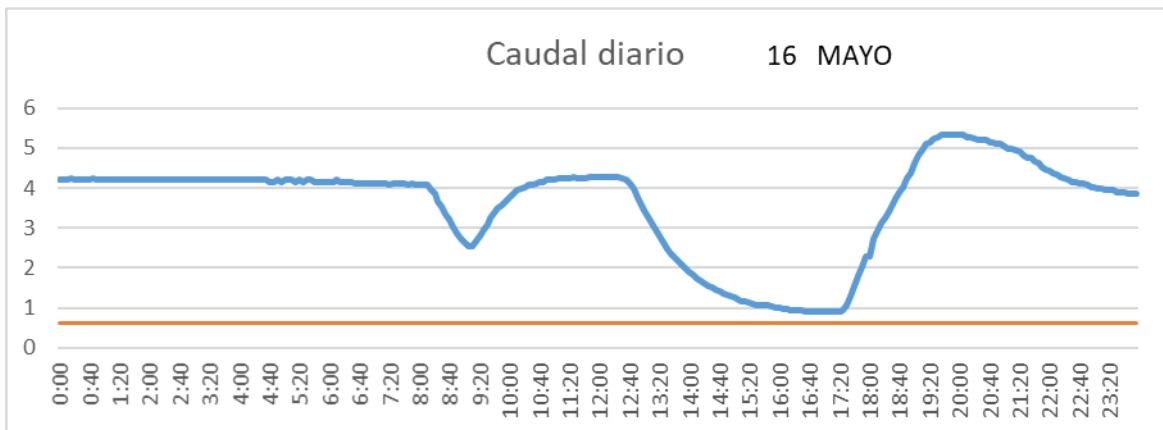
SAN LORENZO PARRILLA



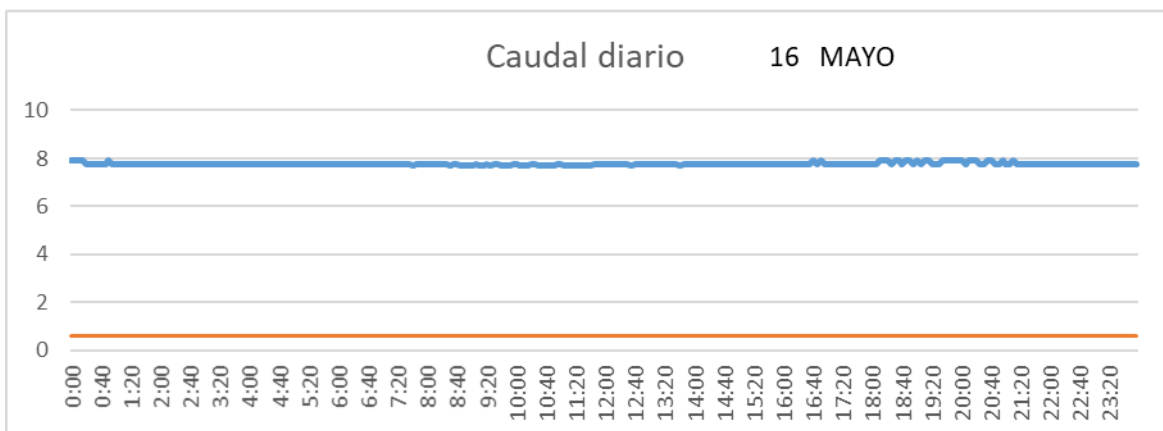
SALIDA TOBA



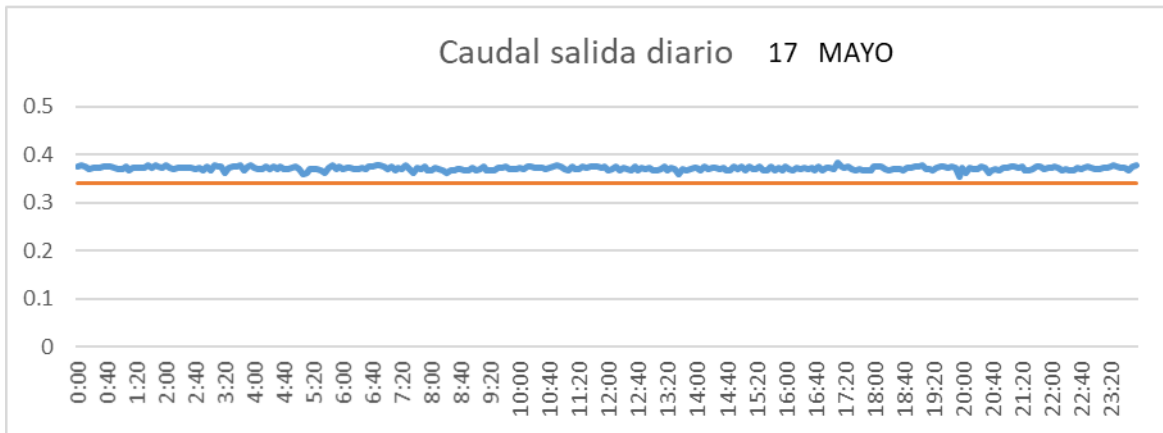
CUENCA



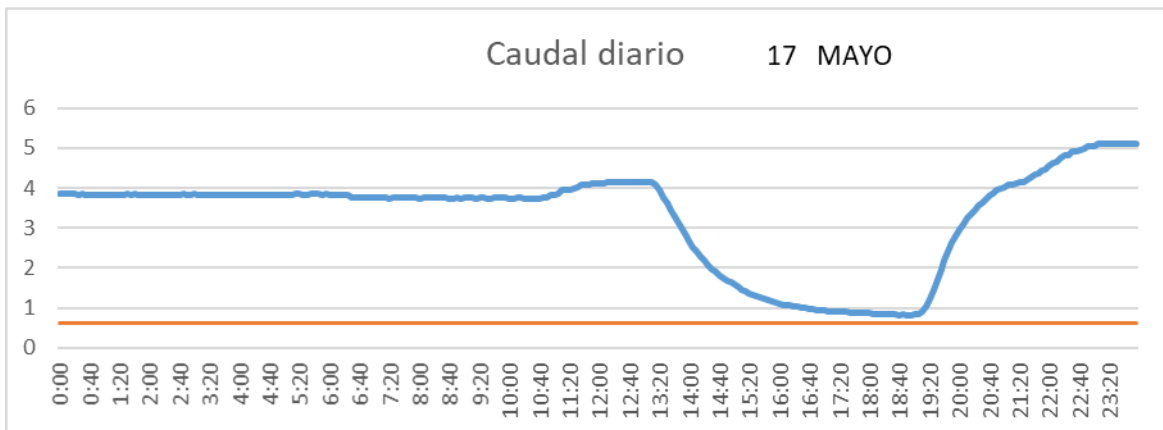
SAN LORENZO PARRILLA



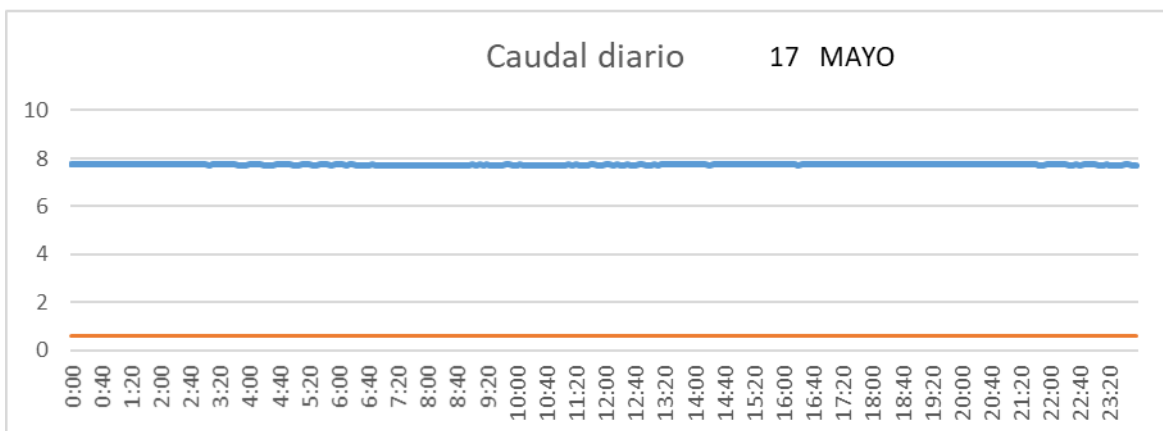
SALIDA TOBA



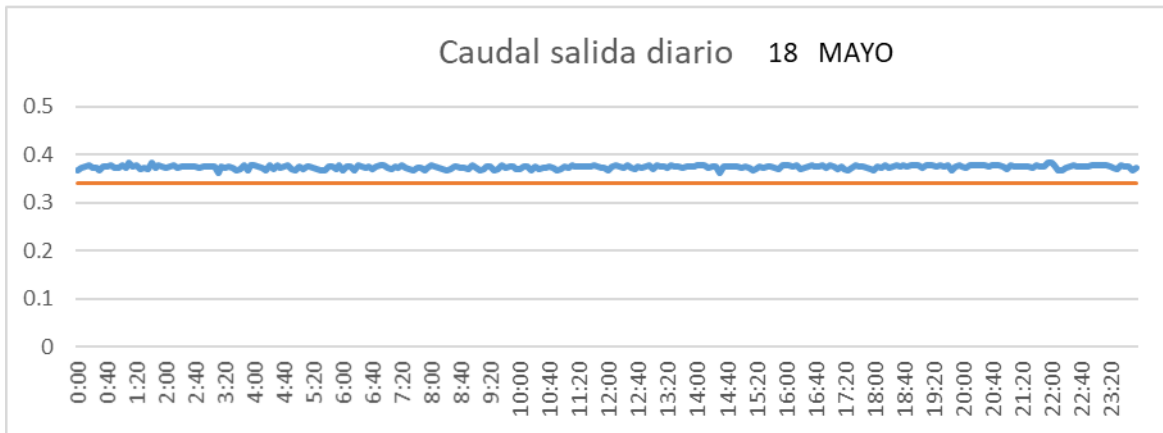
CUENCA



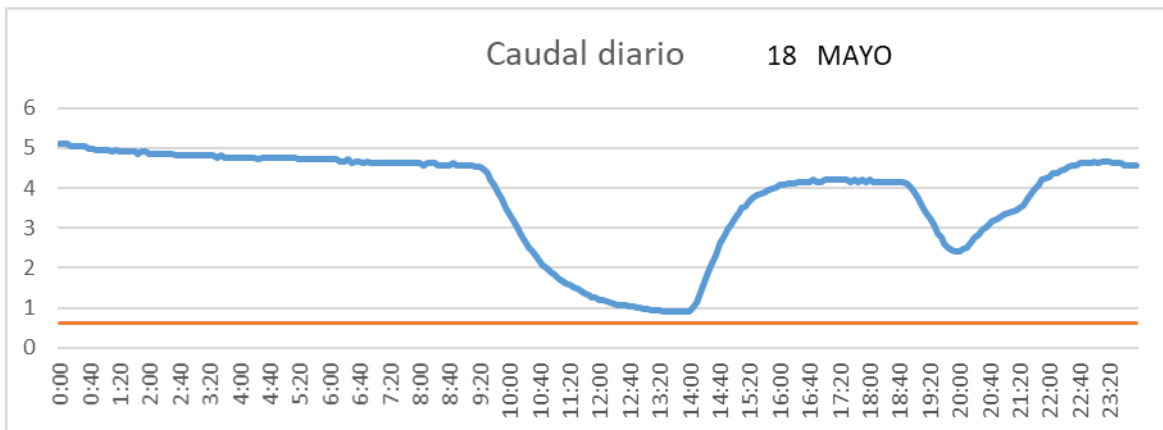
SAN LORENZO PARRILLA



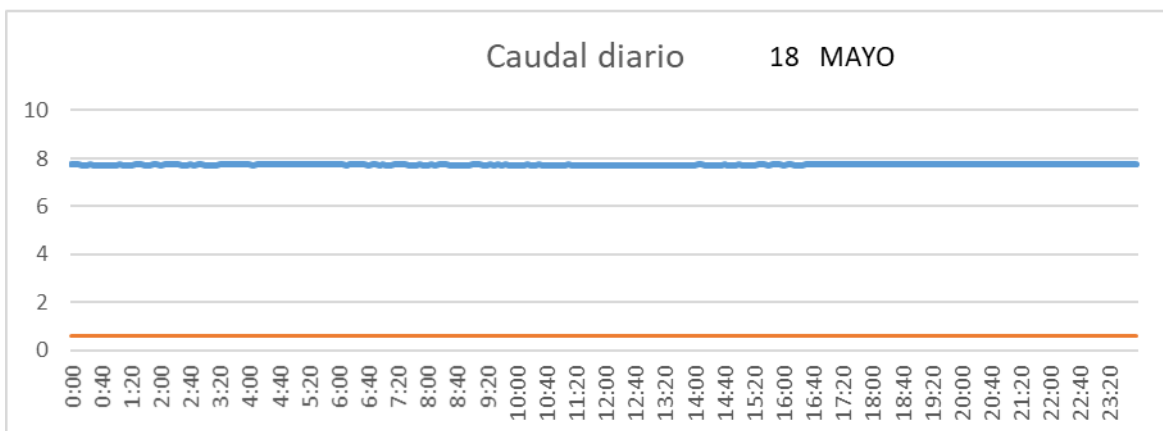
SALIDA TOBA



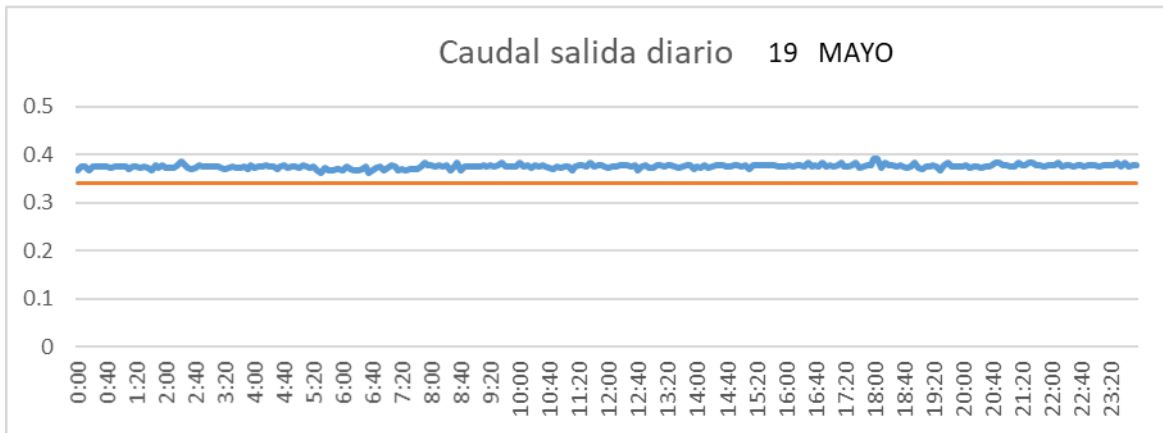
CUENCA



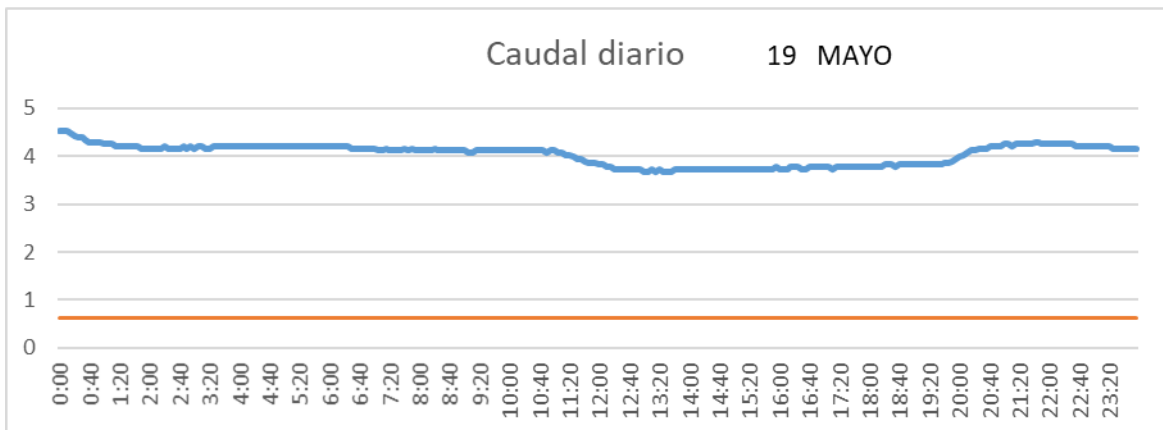
SAN LORENZO PARRILLA



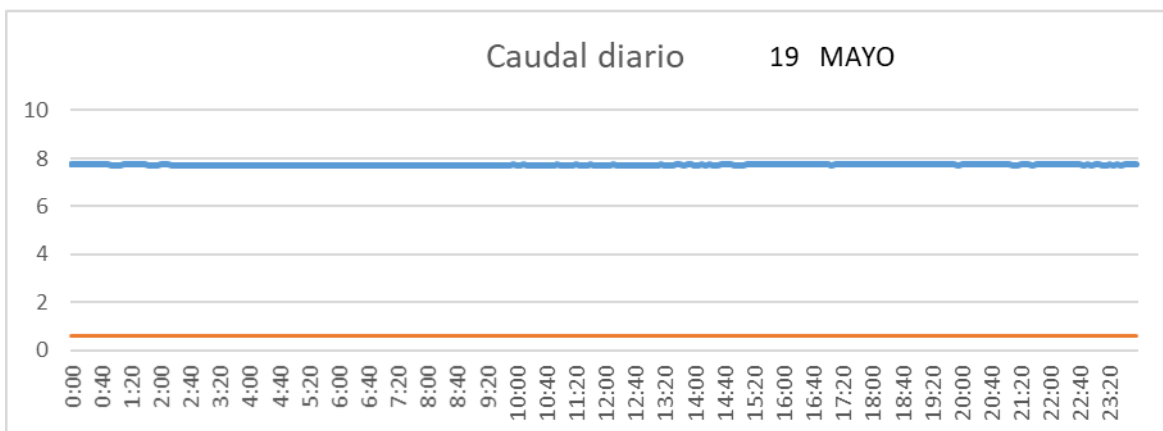
SALIDA TOBA



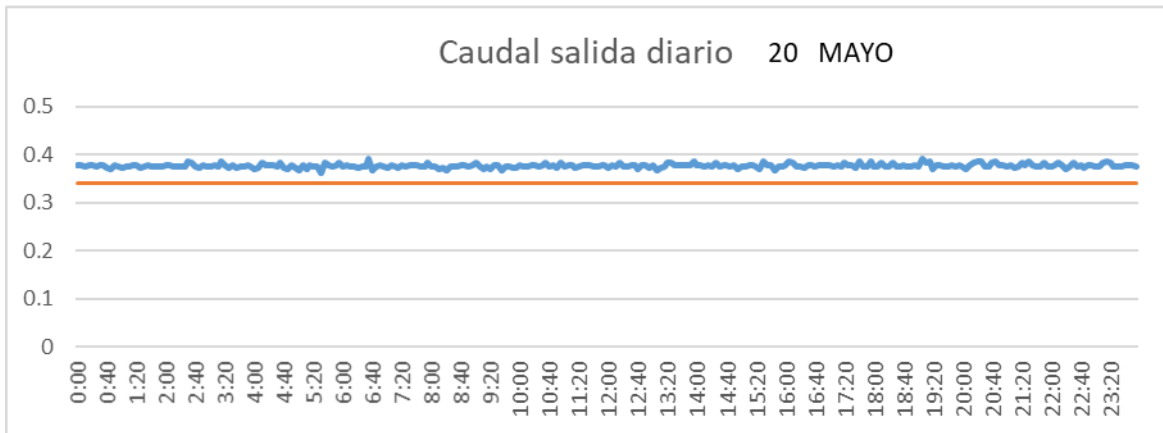
CUENCA



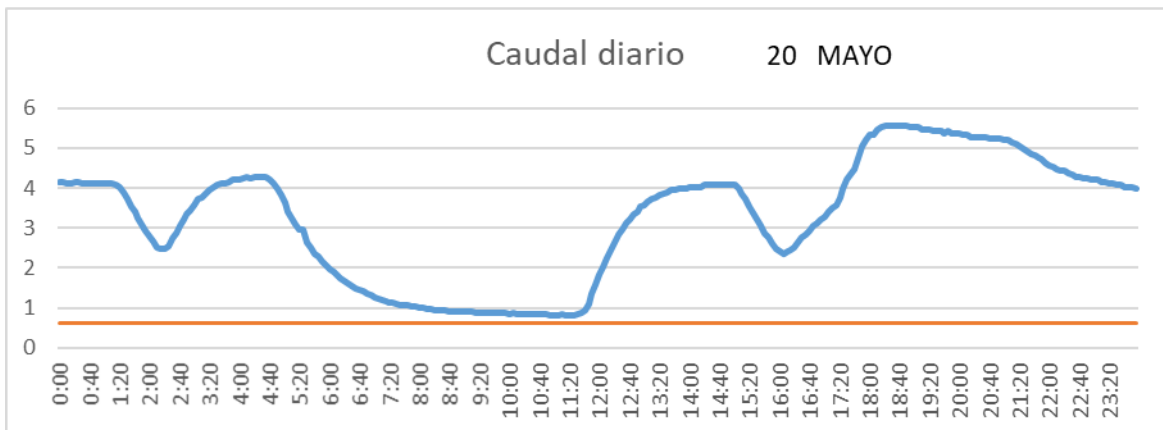
SAN LORENZO PARRILLA



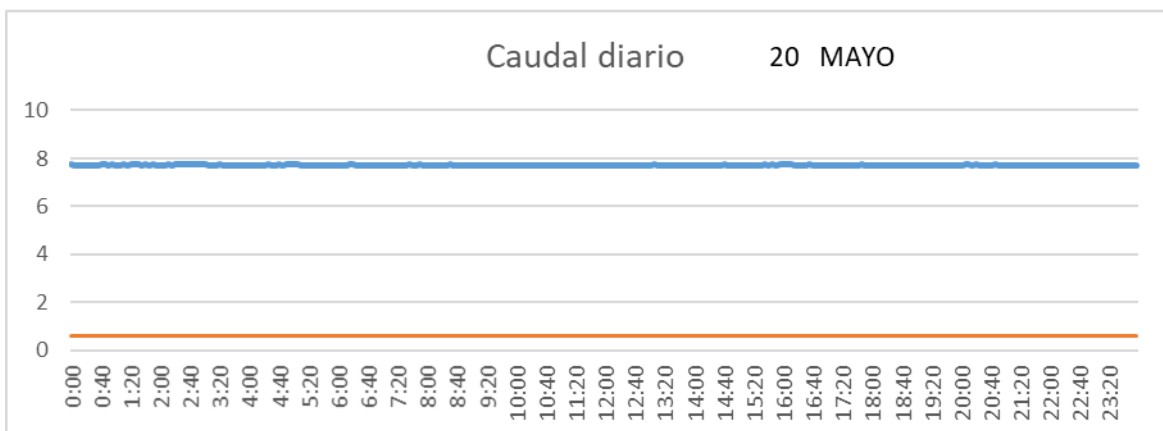
SALIDA TOBA



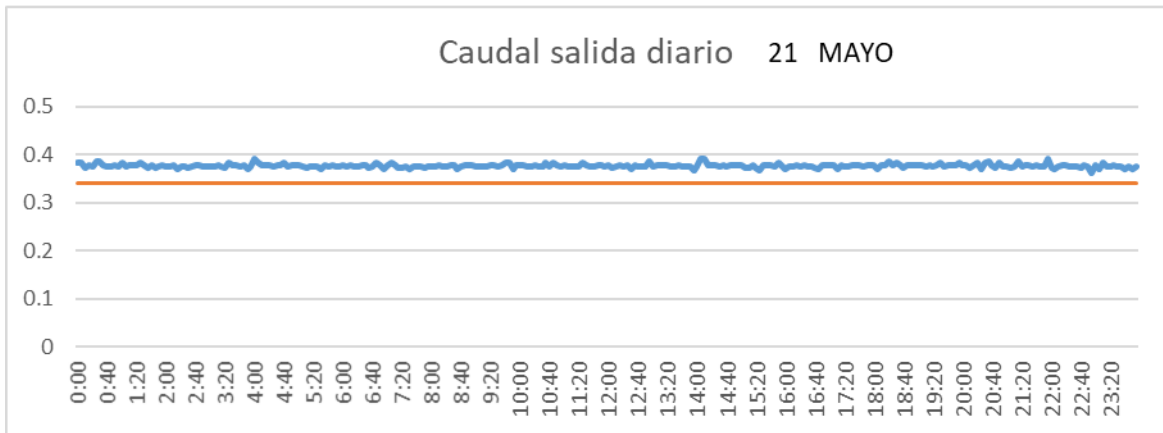
CUENCA



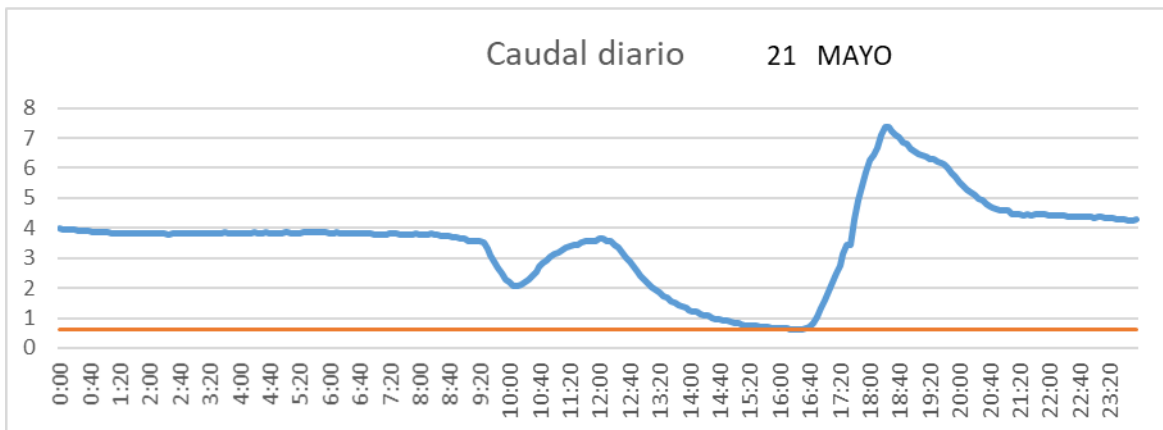
SAN LORENZO PARRILLA



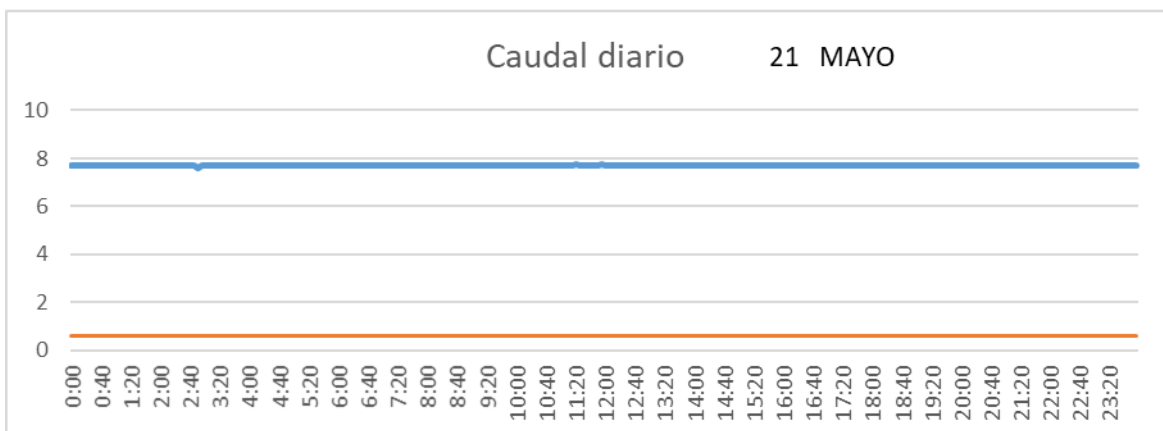
SALIDA TOBA



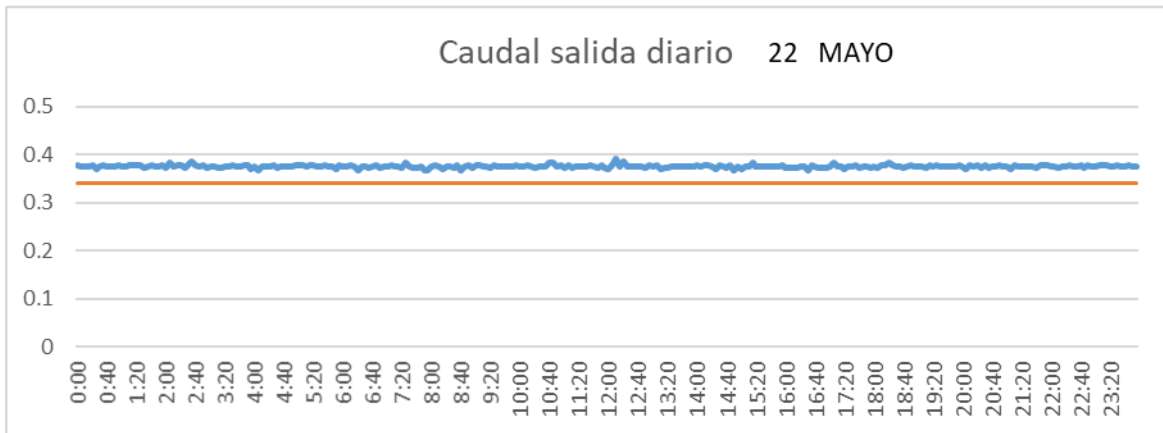
CUENCA



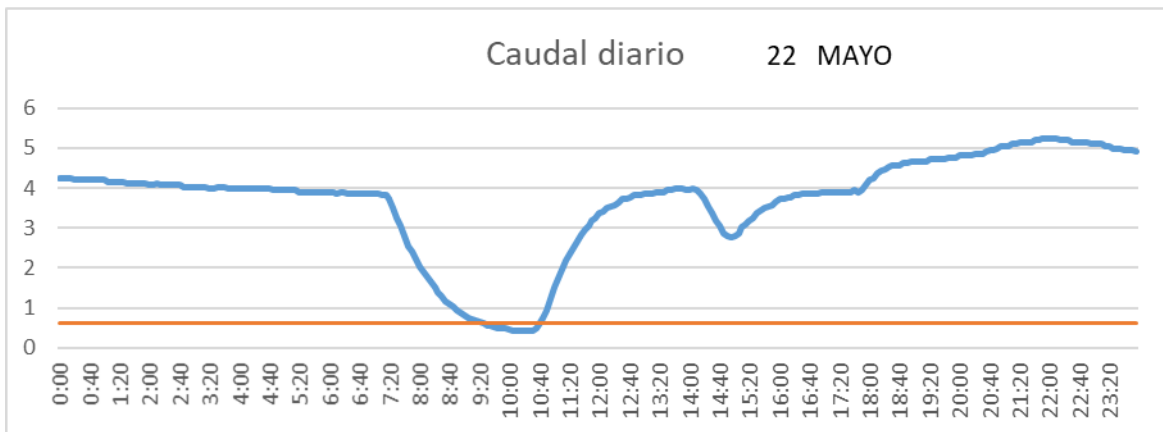
SAN LORENZO PARRILLA



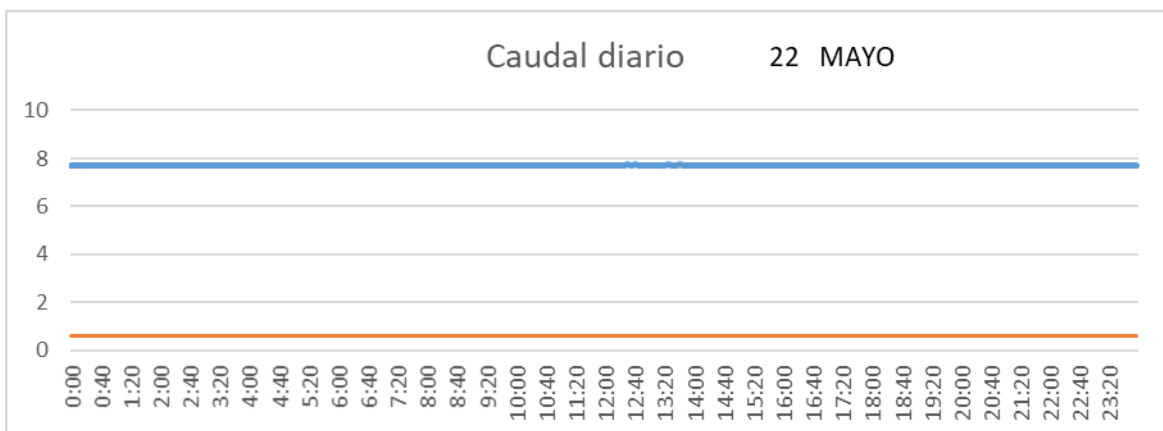
SALIDA TOBA



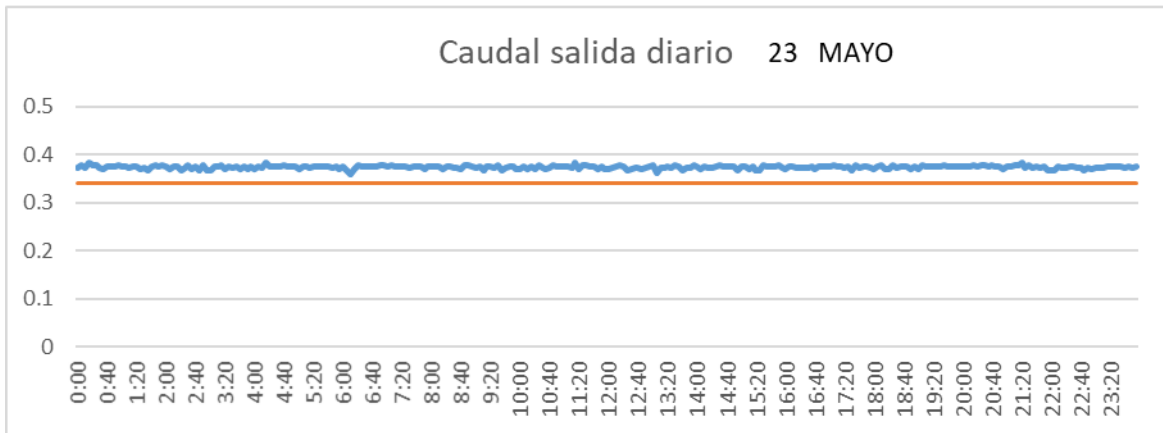
CUENCA



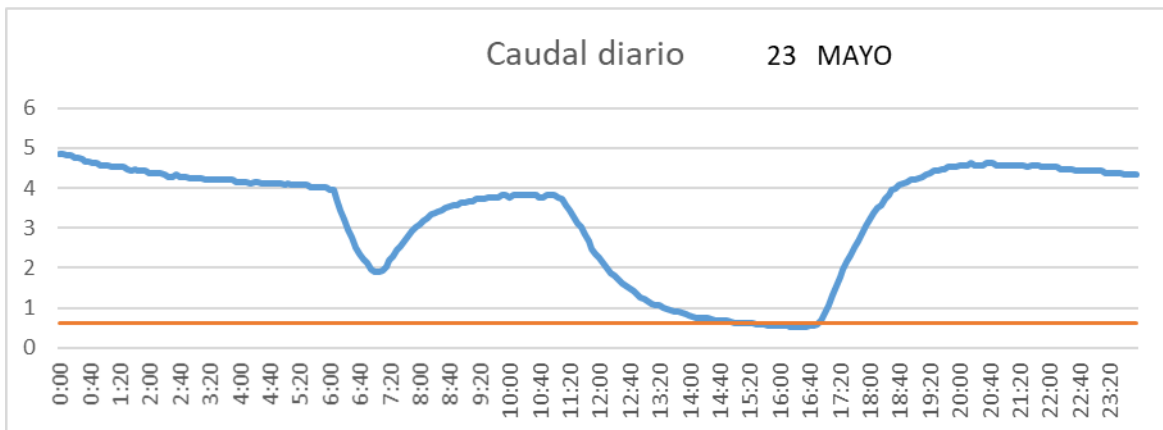
SAN LORENZO PARRILLA



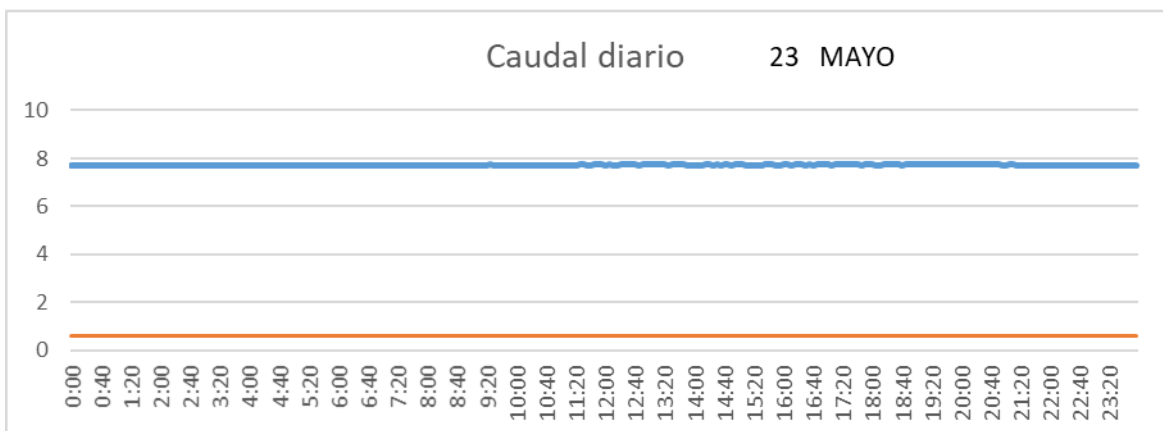
SALIDA TOBA



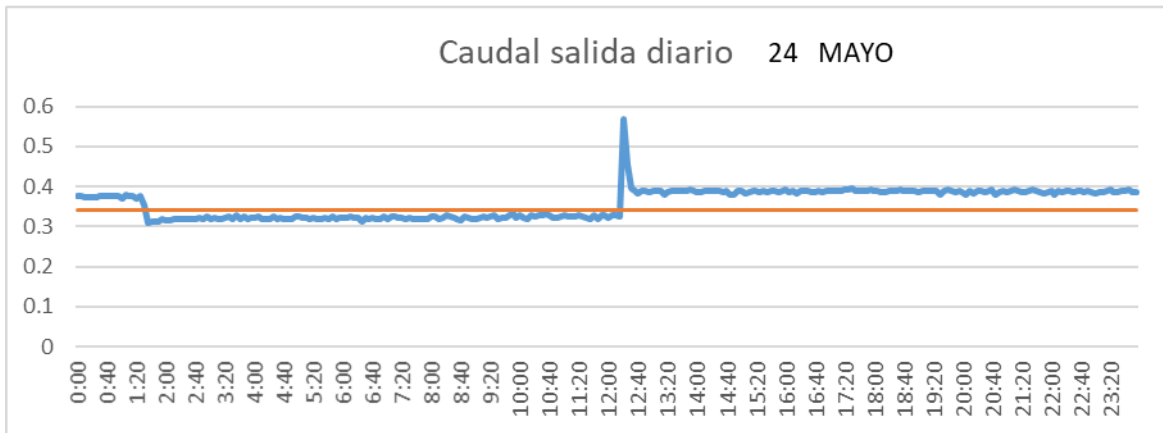
CUENCA



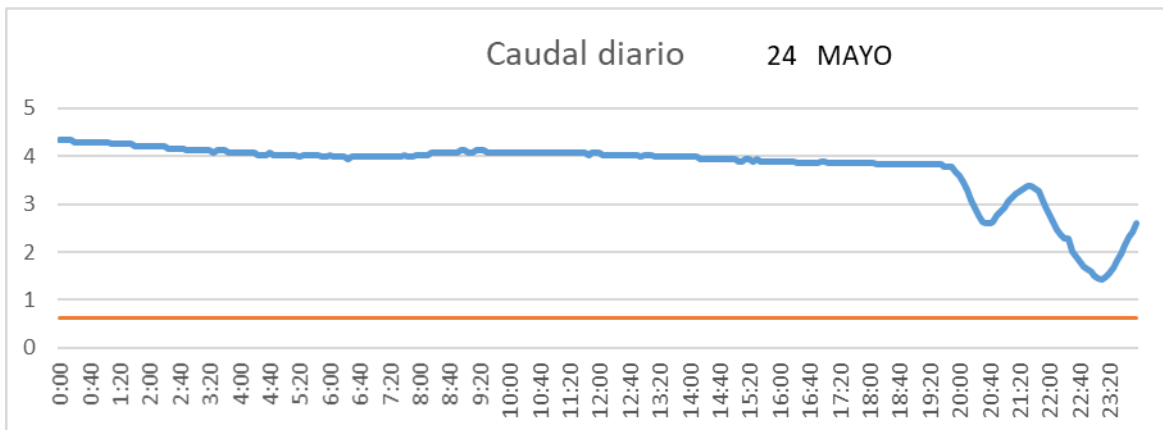
SAN LORENZO PARRILLA



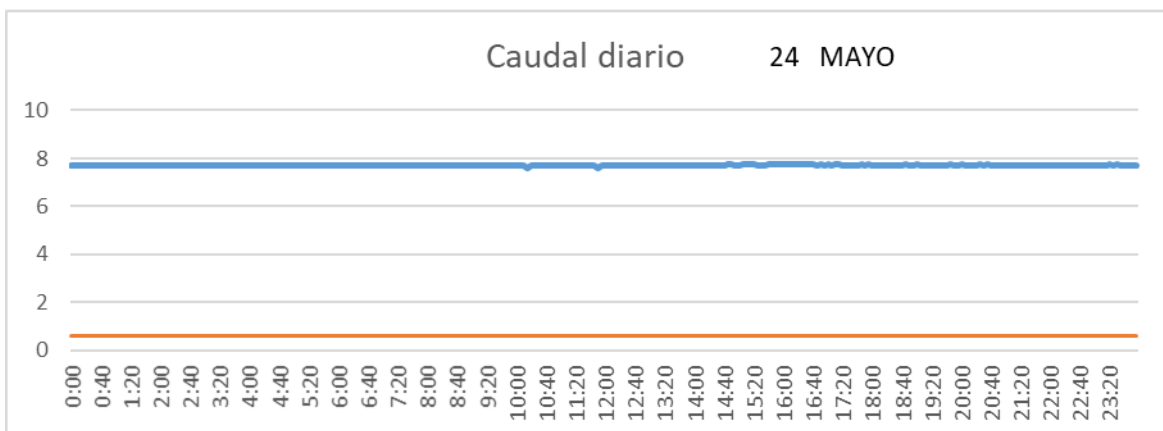
SALIDA TOBA



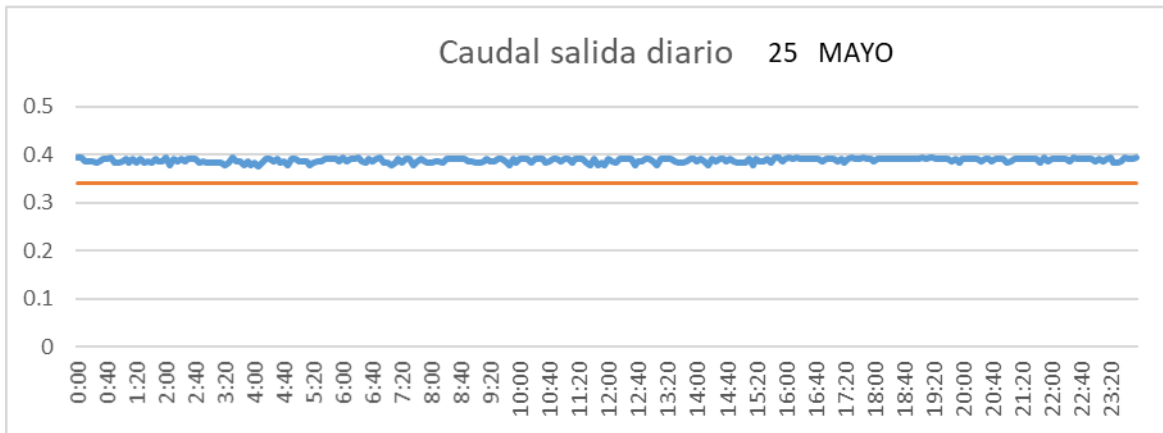
CUENCA



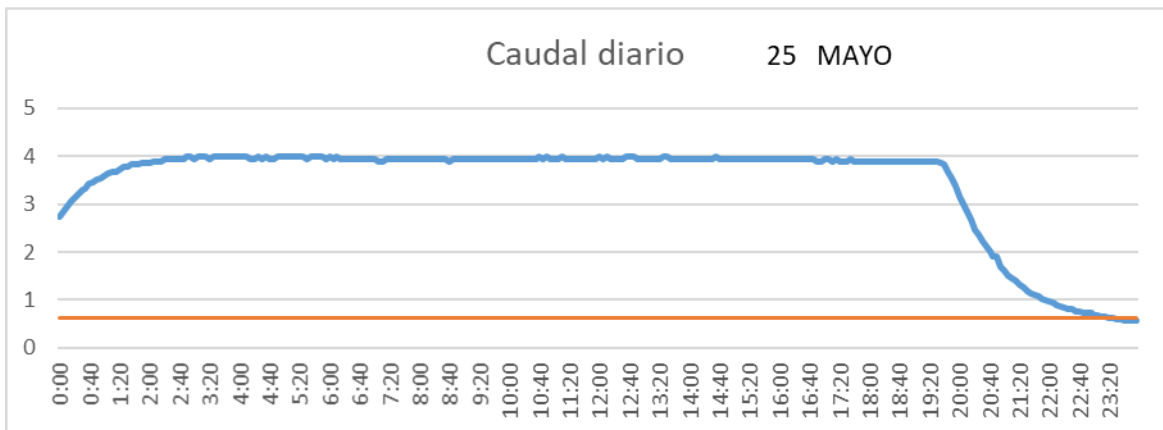
SAN LORENZO PARRILLA



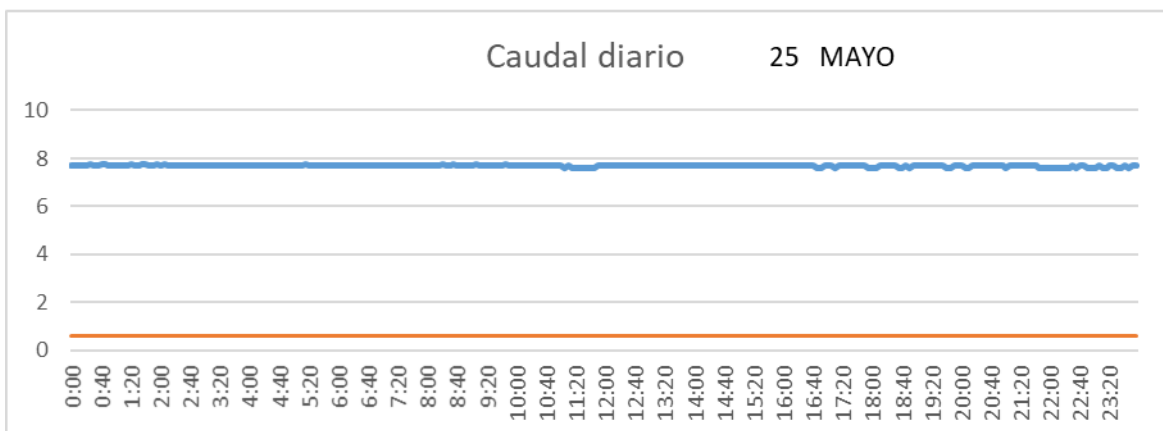
SALIDA TOBA



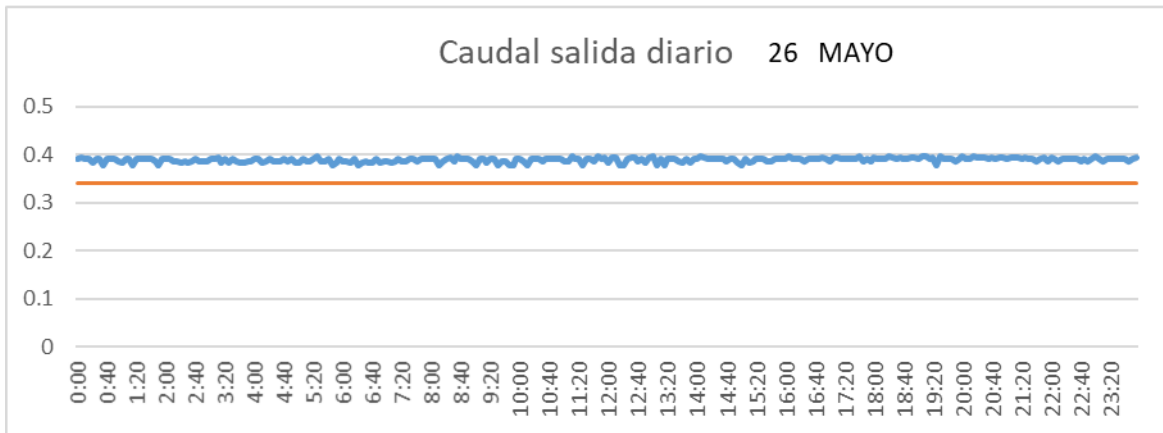
CUENCA



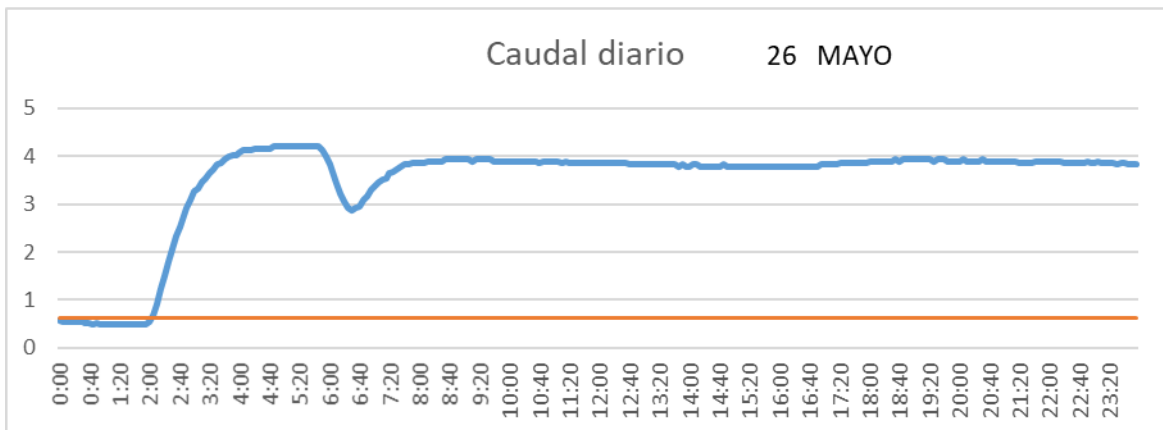
SAN LORENZO PARRILLA



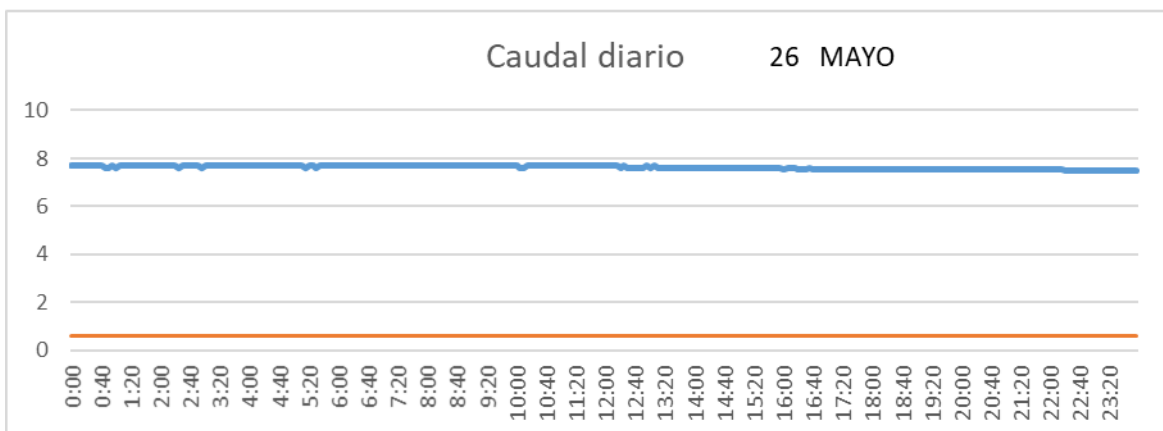
SALIDA TOBA



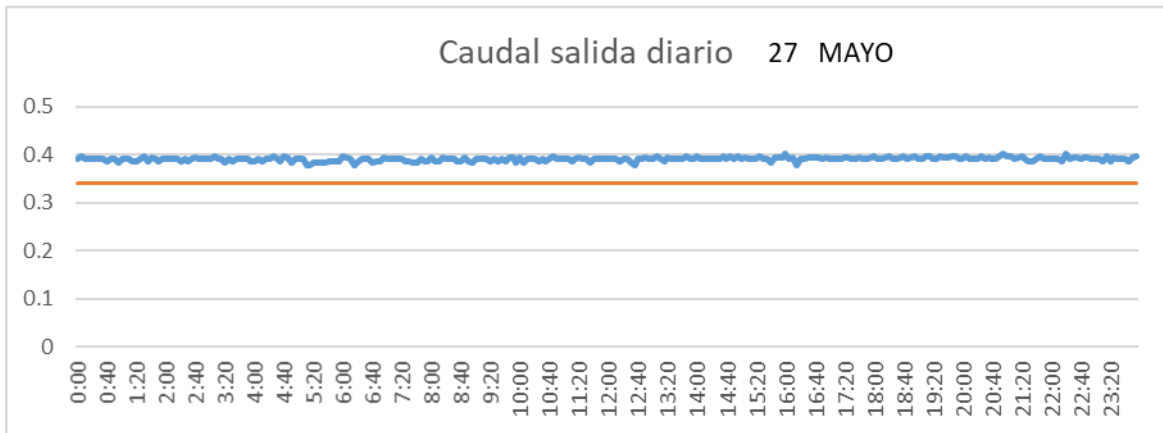
CUENCA



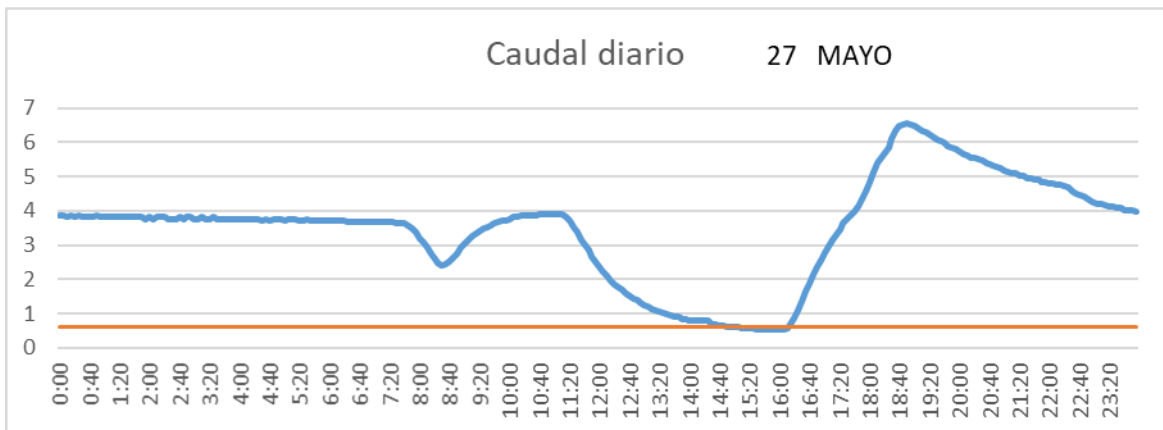
SAN LORENZO PARRILLA



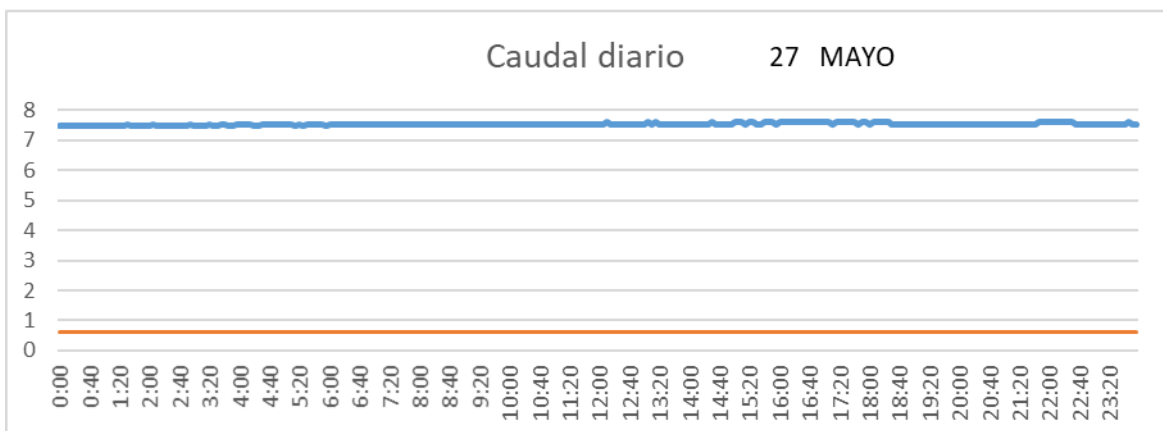
SALIDA TOBA



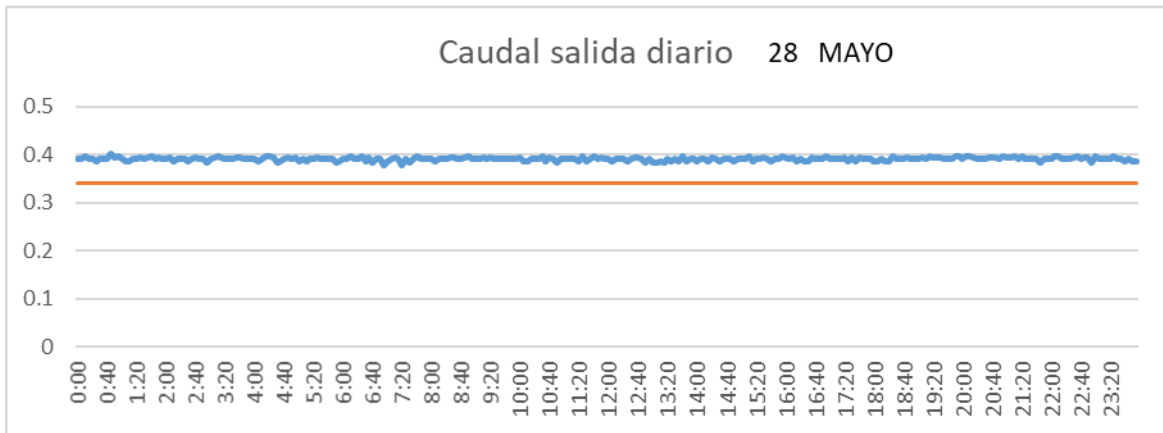
CUENCA



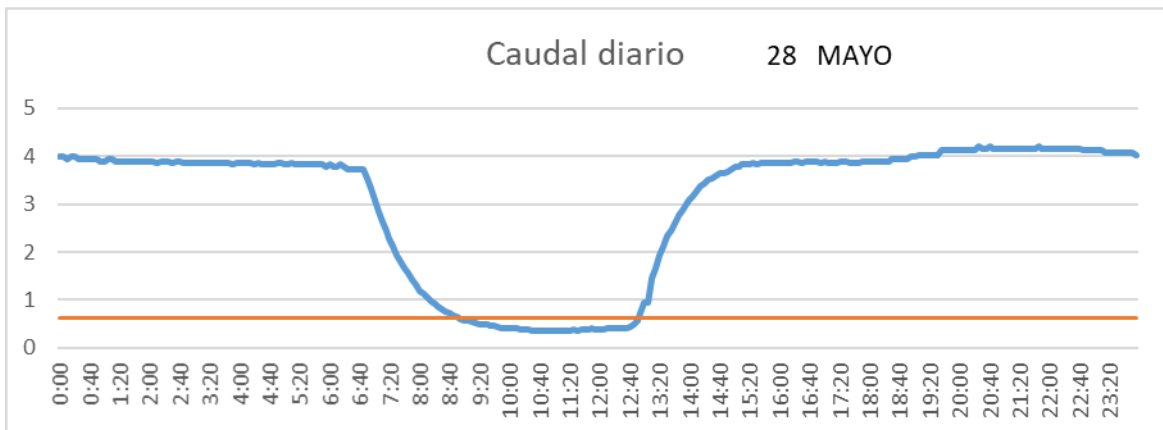
SAN LORENZO PARRILLA



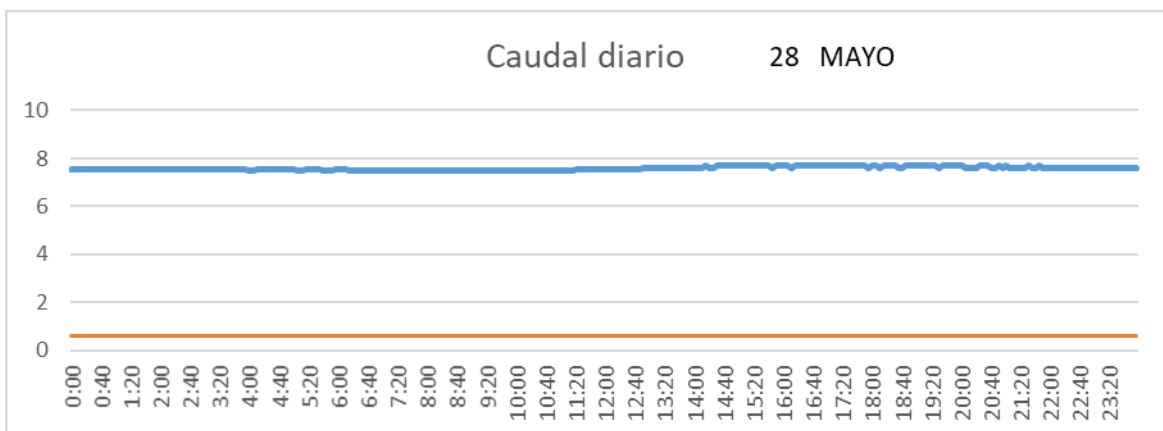
SALIDA TOBA



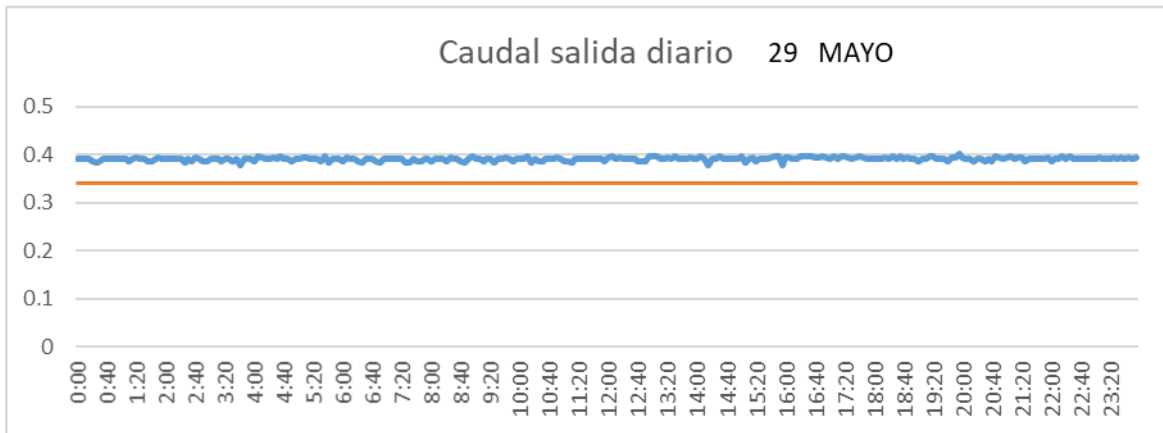
CUENCA



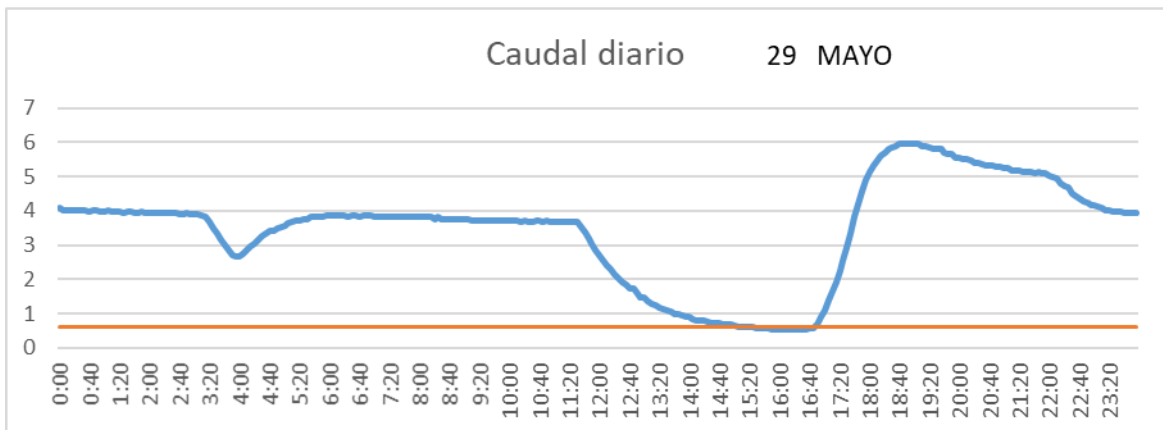
SAN LORENZO PARRILLA



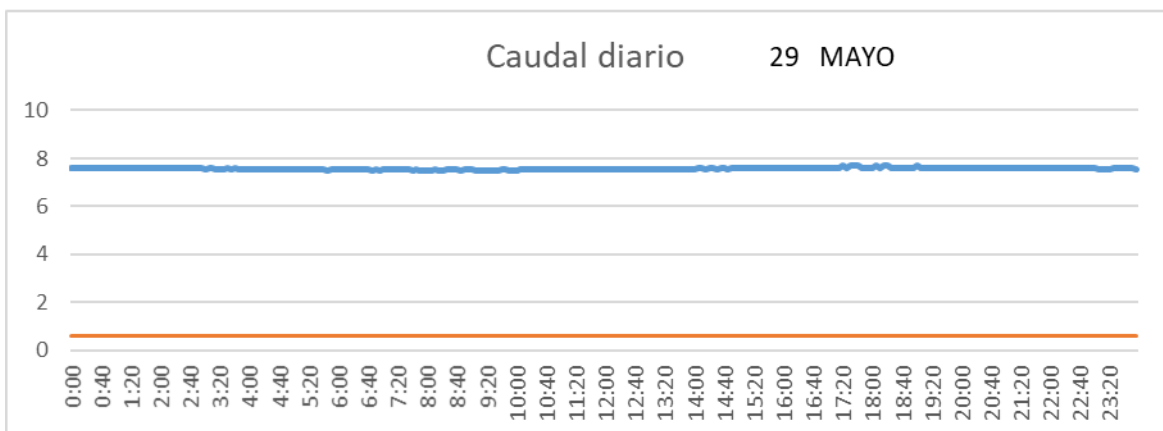
SALIDA TOBA



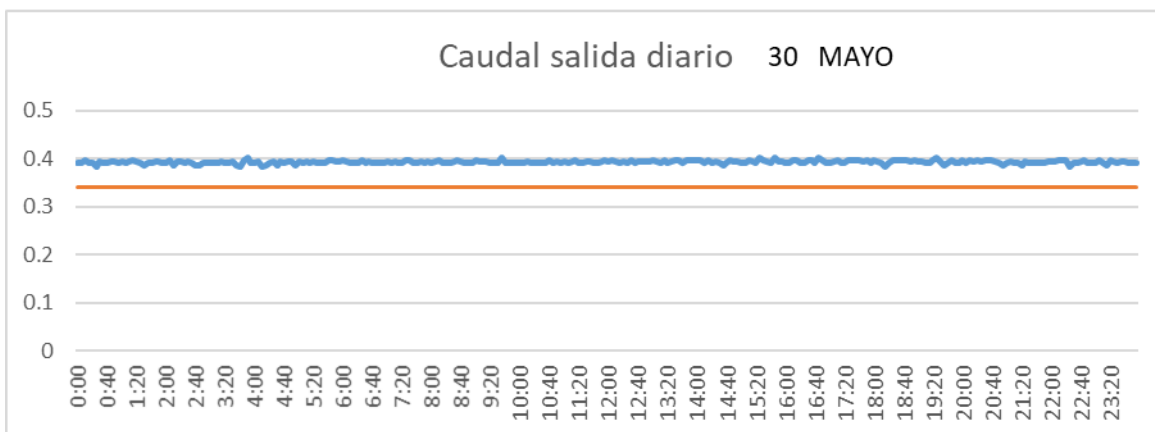
CUENCA



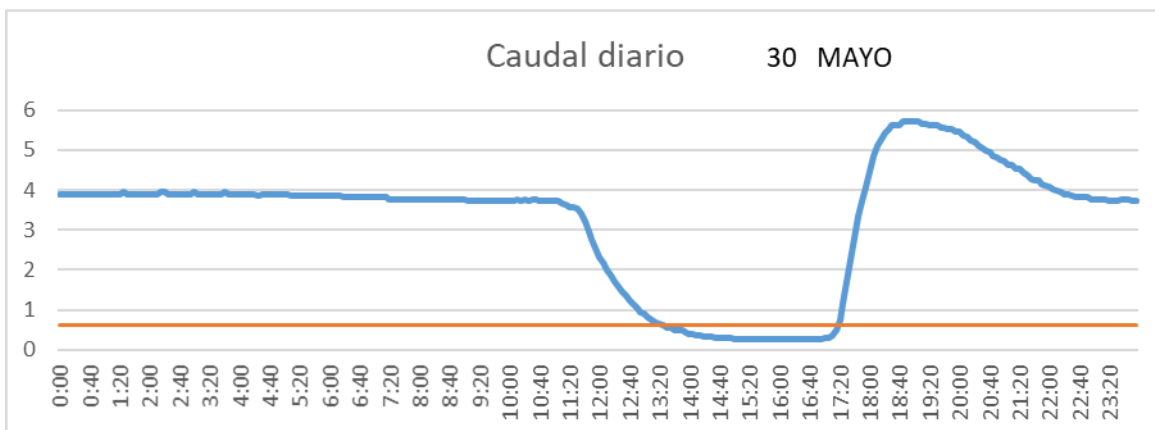
SAN LORENZO PARRILLA



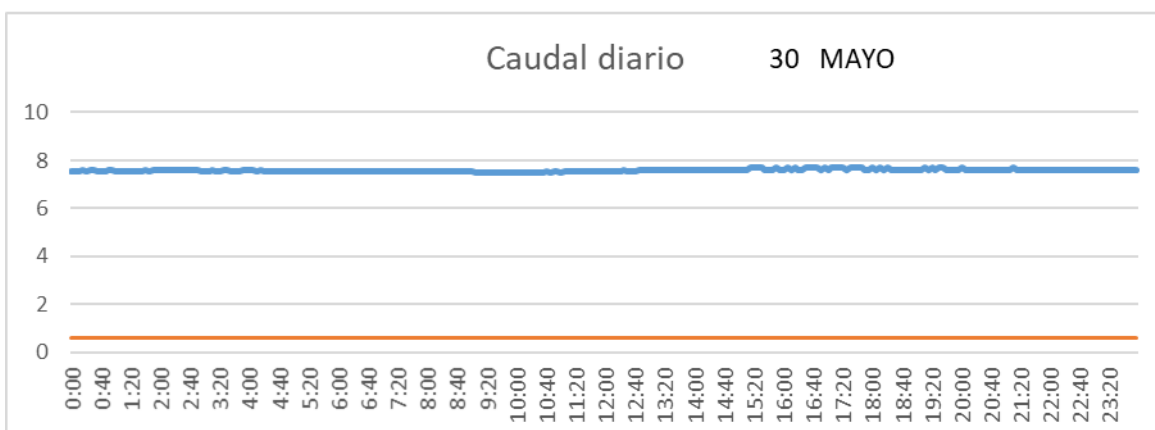
SALIDA TOBA



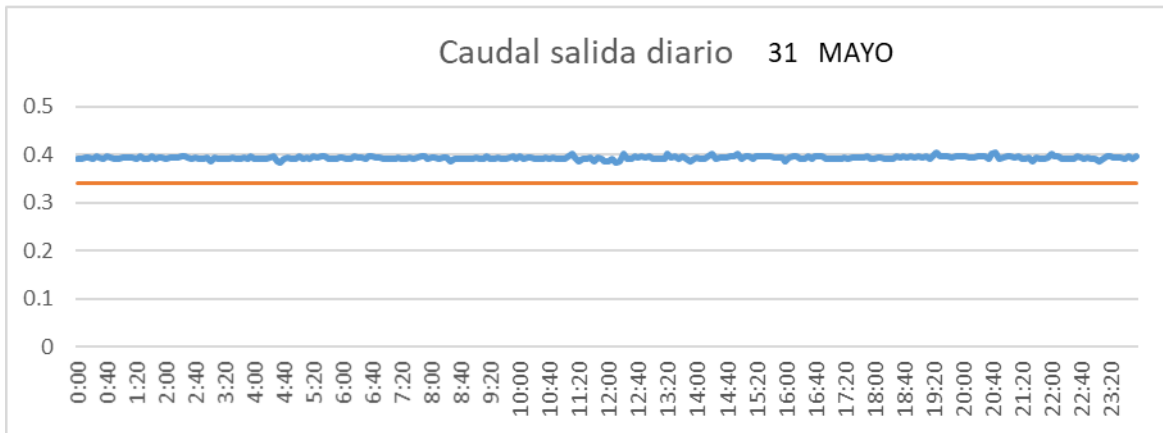
CUENCA



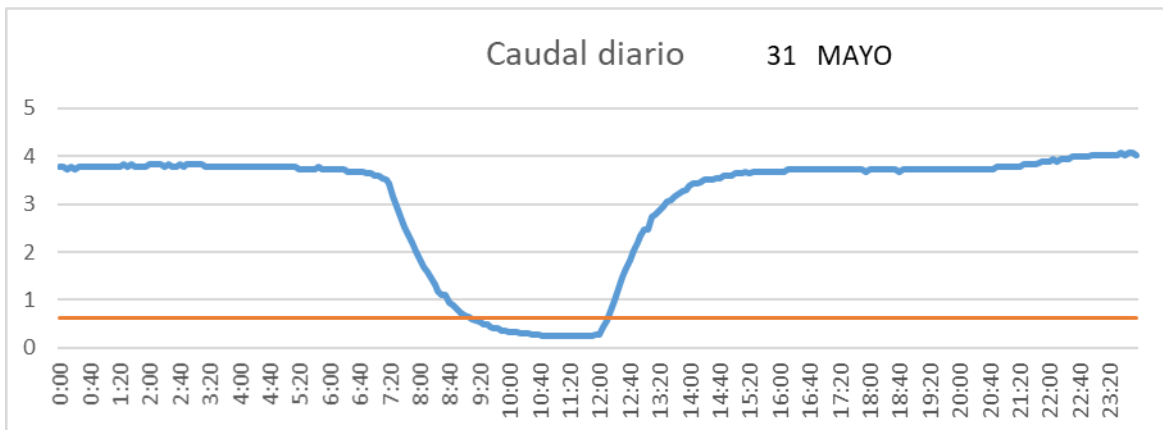
SAN LORENZO PARRILLA



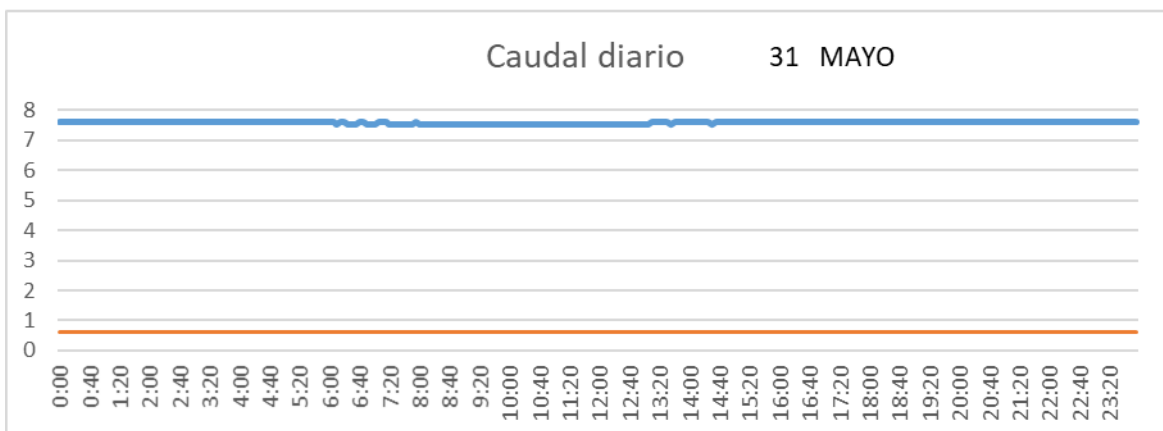
SALIDA TOBA



CUENCA

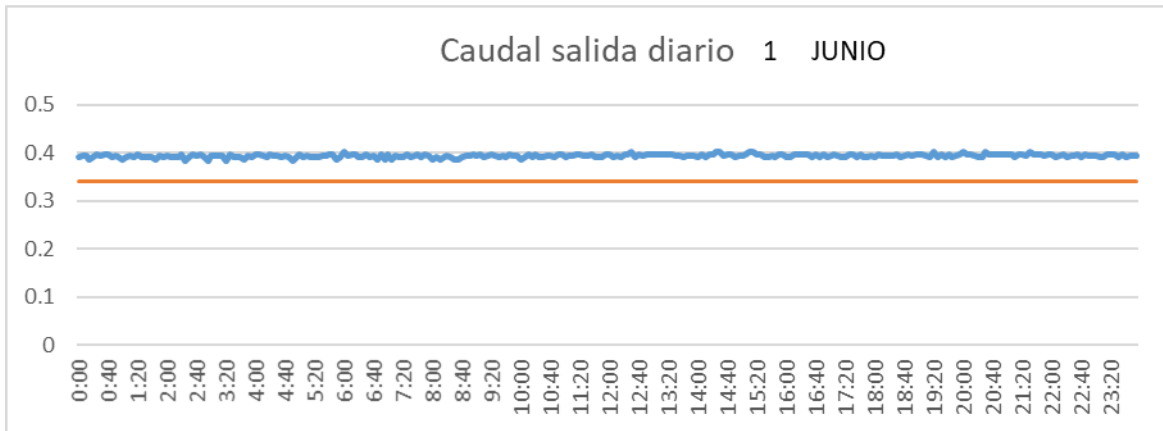


SAN LORENZO PARRILLA

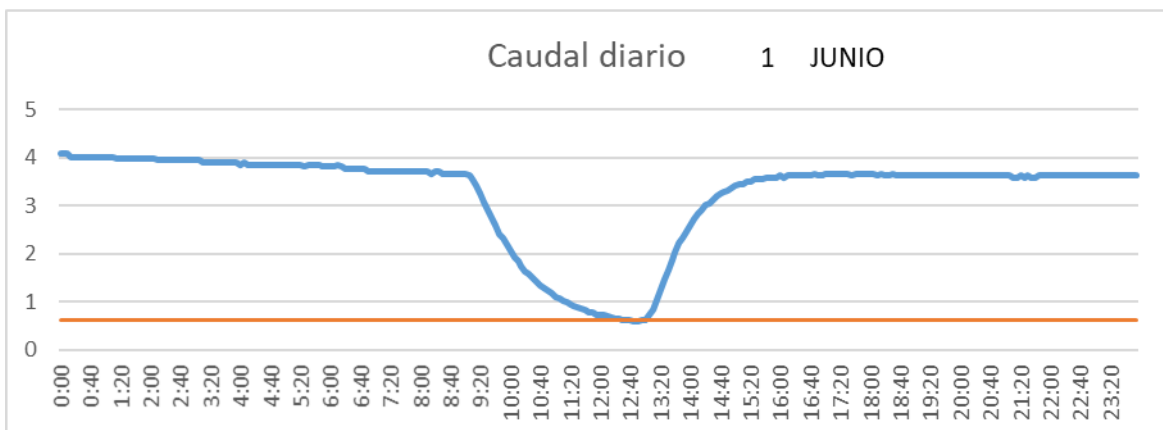


2.1.6 Junio

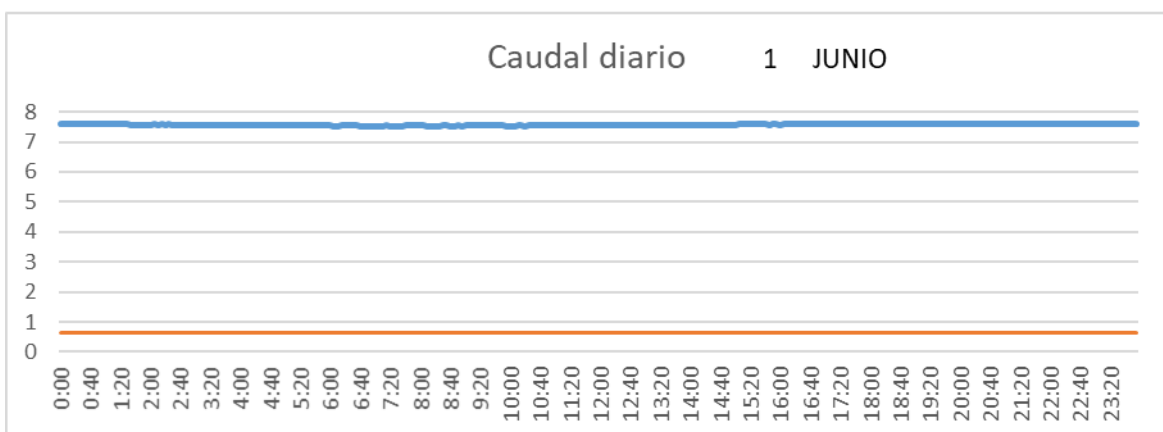
SALIDA TOBA



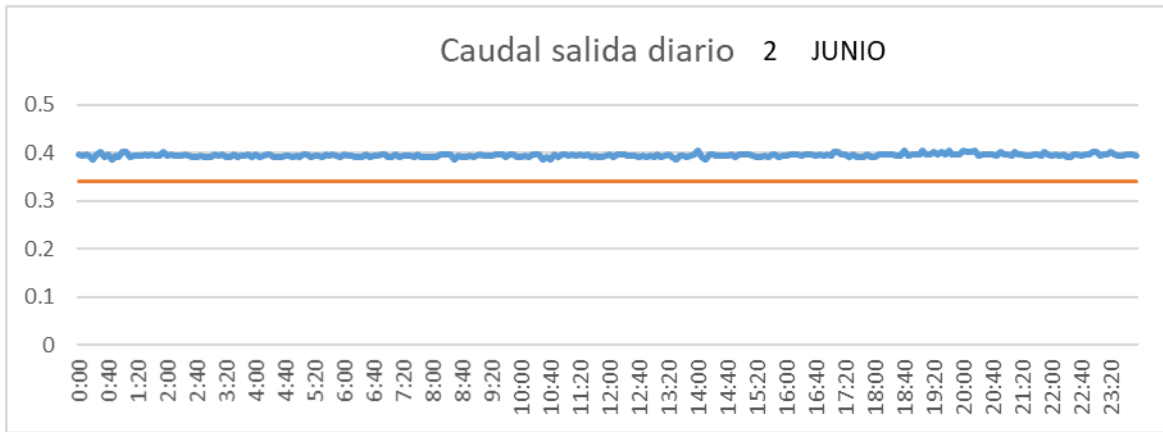
CUENCA



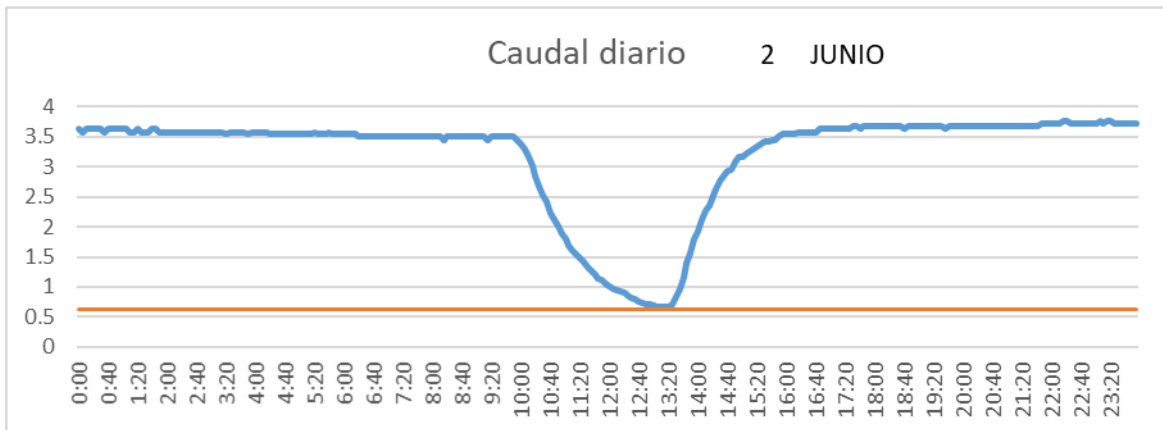
SAN LORENZO PARRILLA



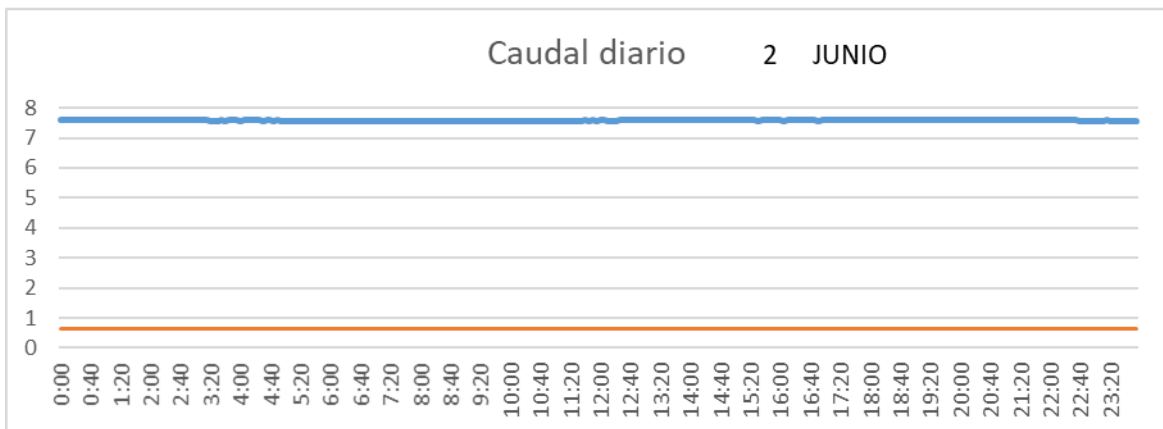
SALIDA TOBA



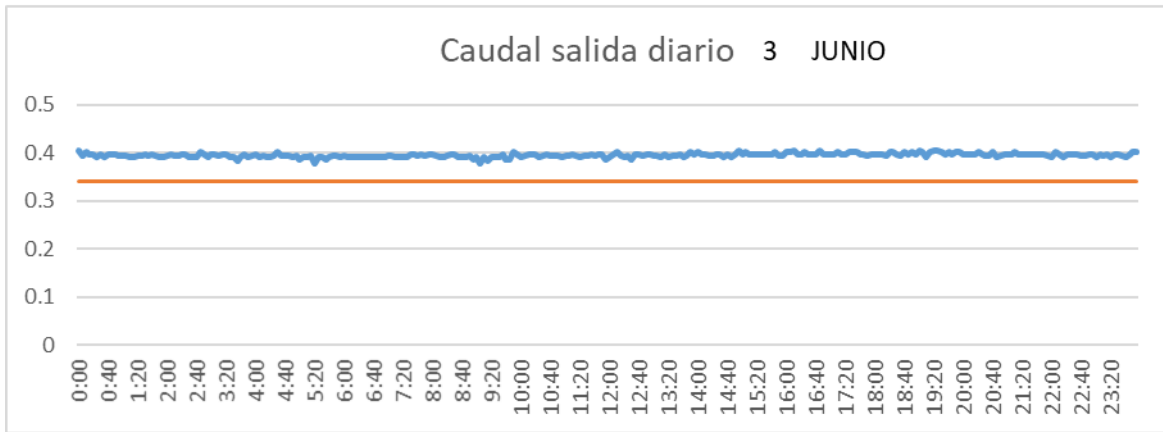
CUENCA



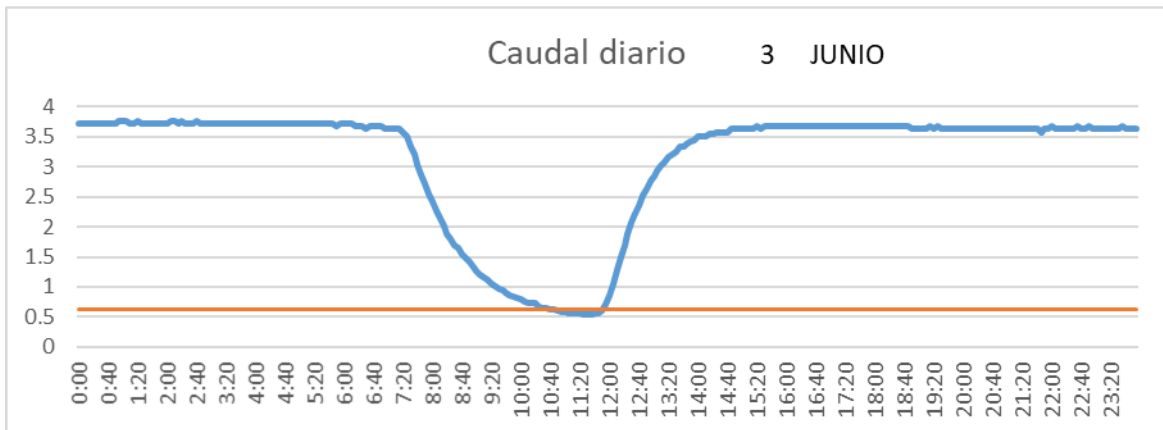
SAN LORENZO PARRILLA



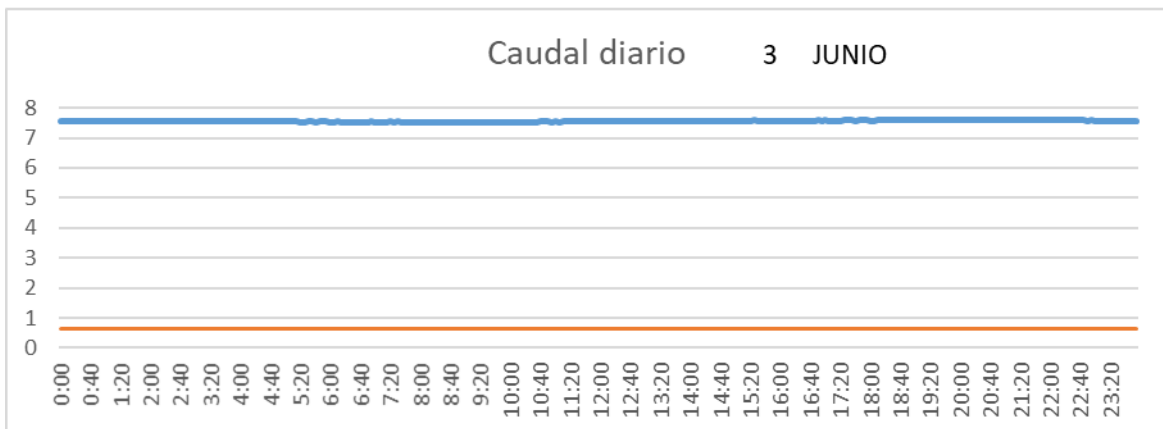
SALIDA TOBA



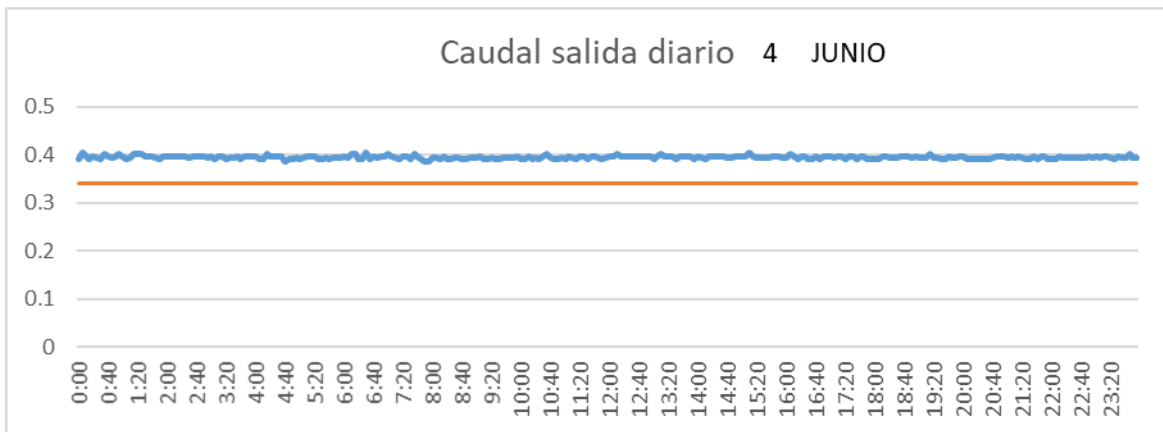
CUENCA



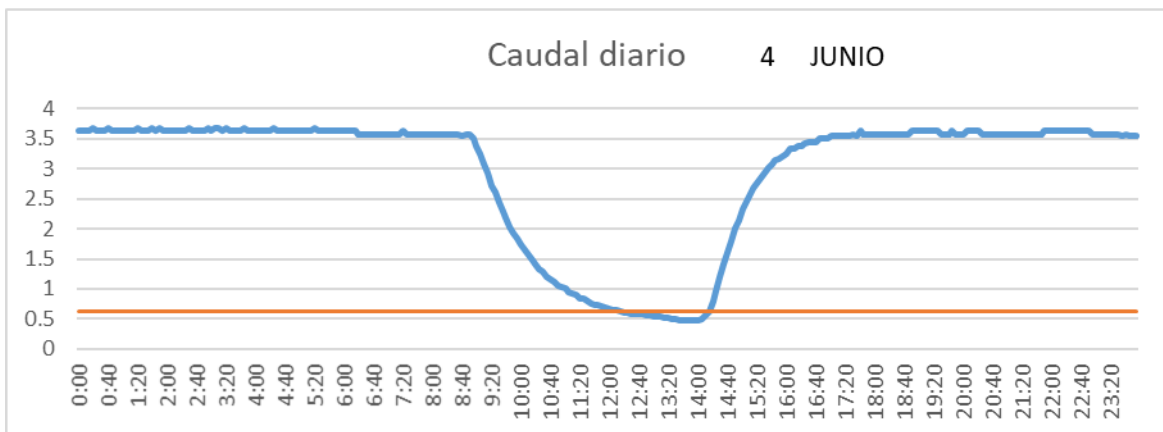
SAN LORENZO PARRILLA



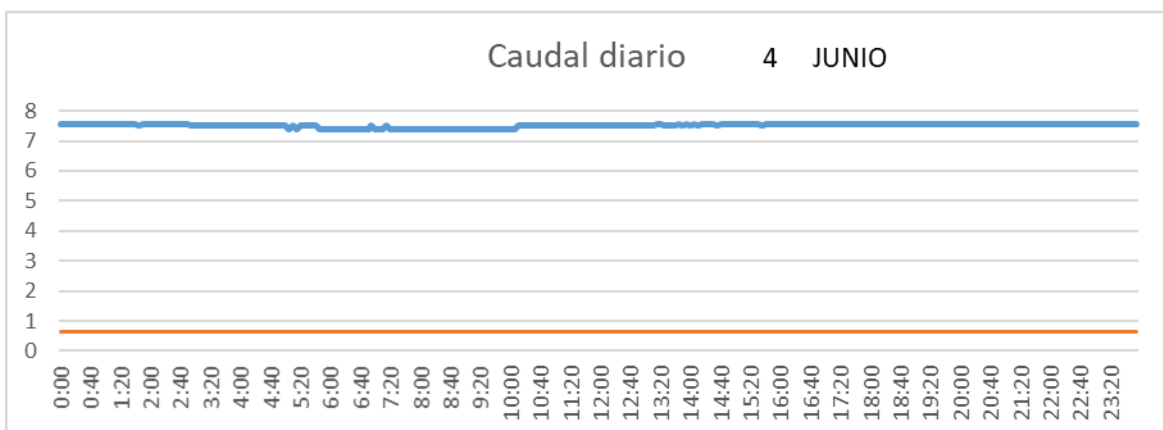
SALIDA TOBA



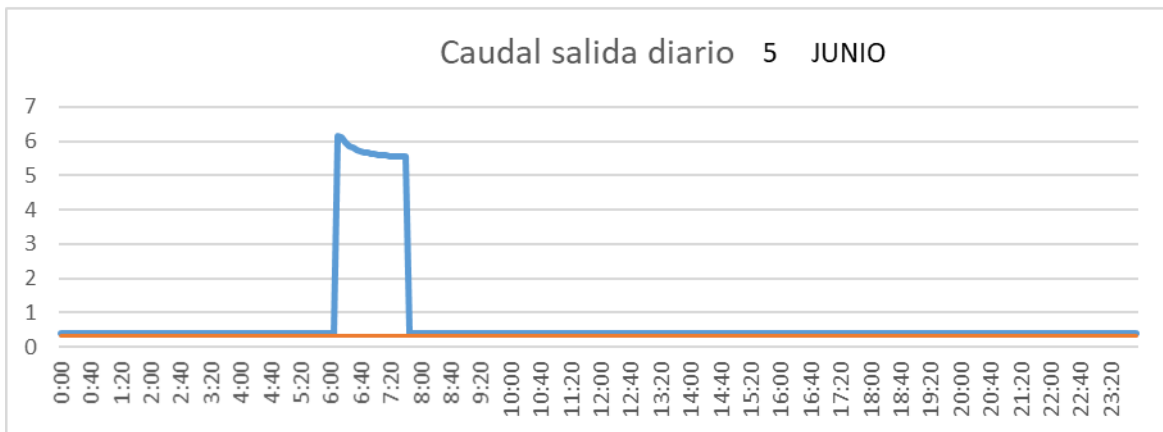
CUENCA



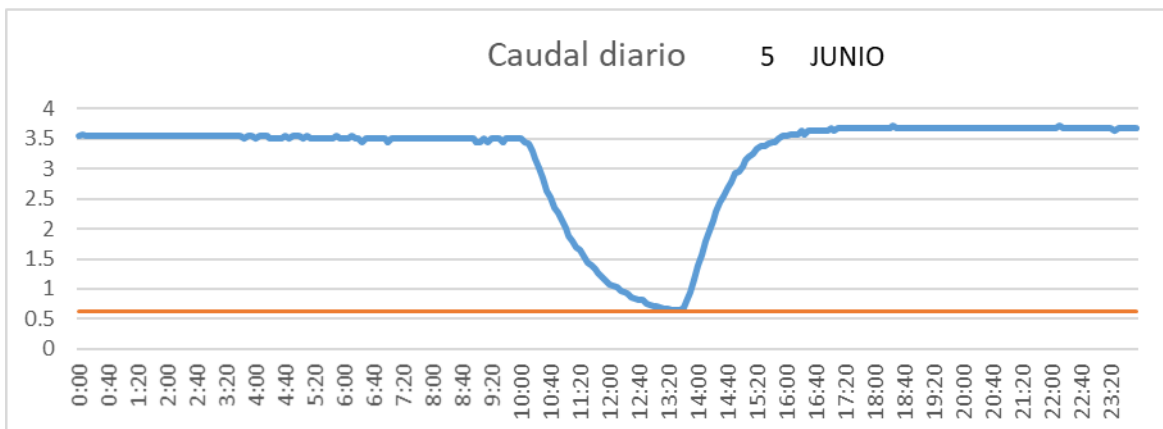
SAN LORENZO PARRILLA



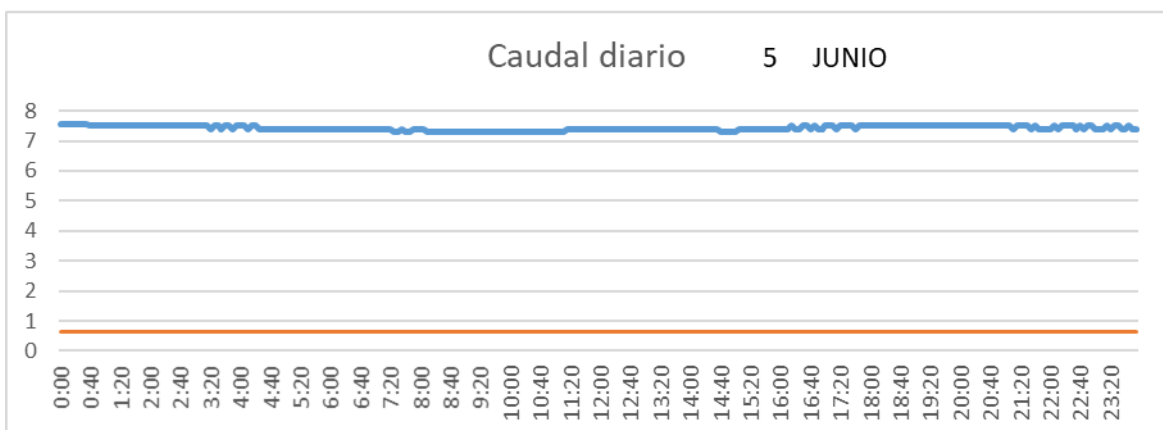
SALIDA TOBA



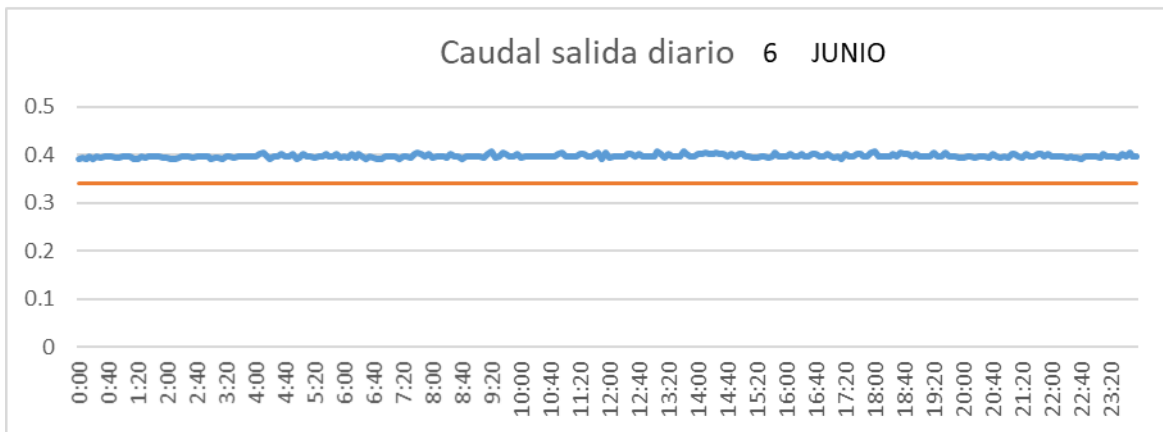
CUENCA



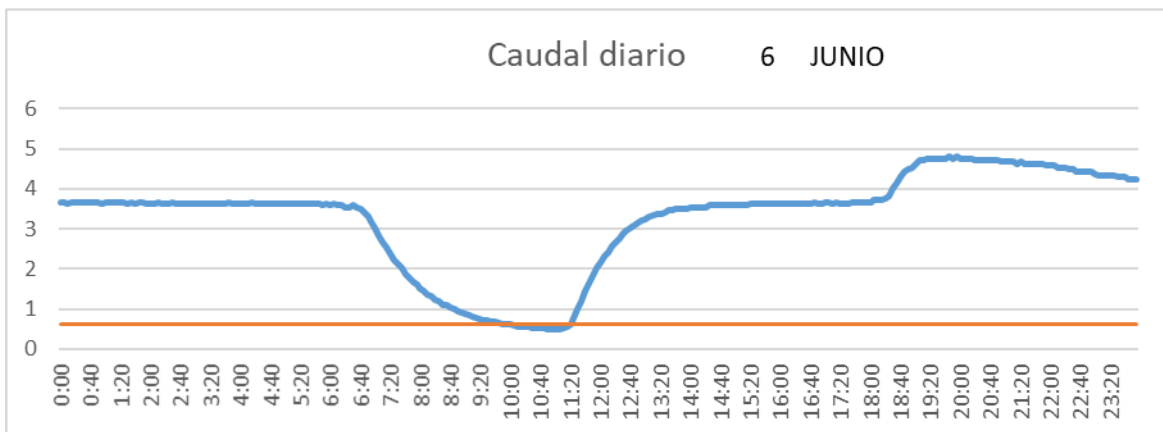
SAN LORENZO PARRILLA



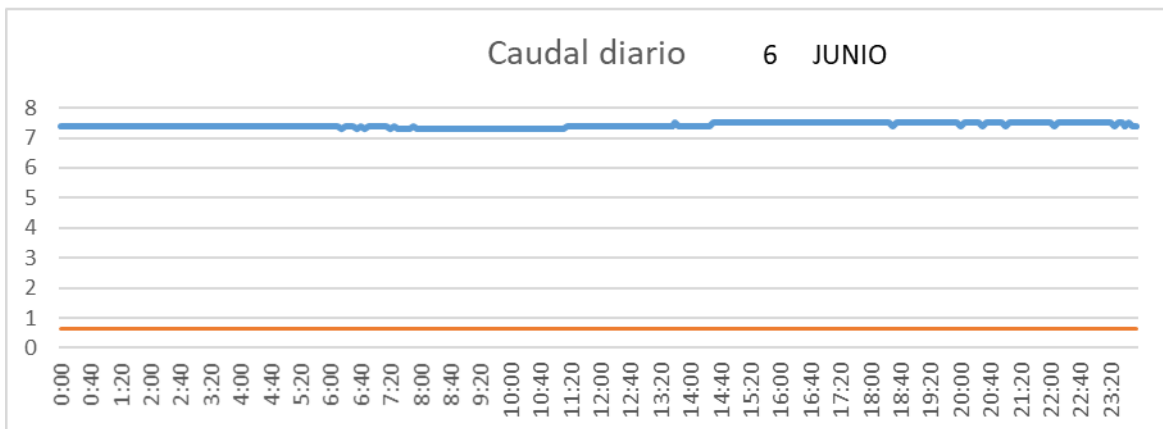
SALIDA TOBA



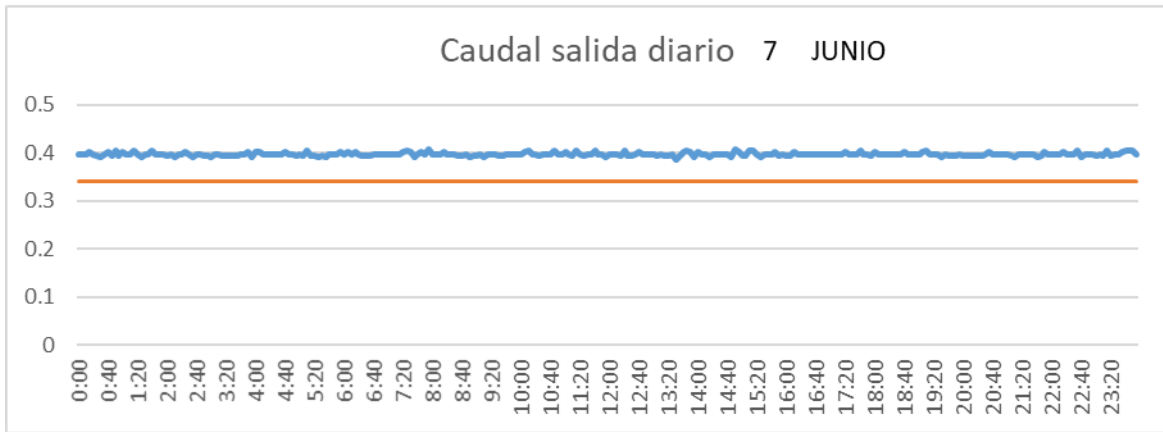
CUENCA



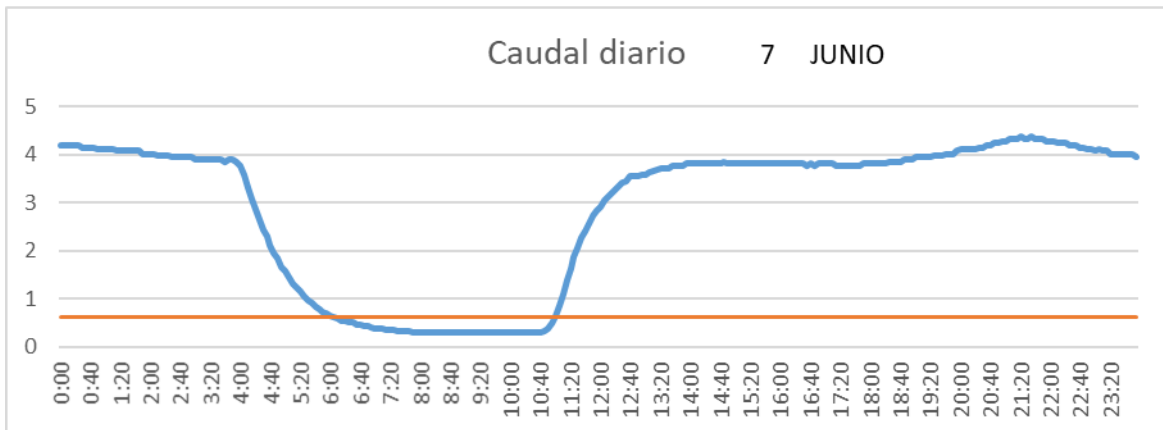
SAN LORENZO PARRILLA



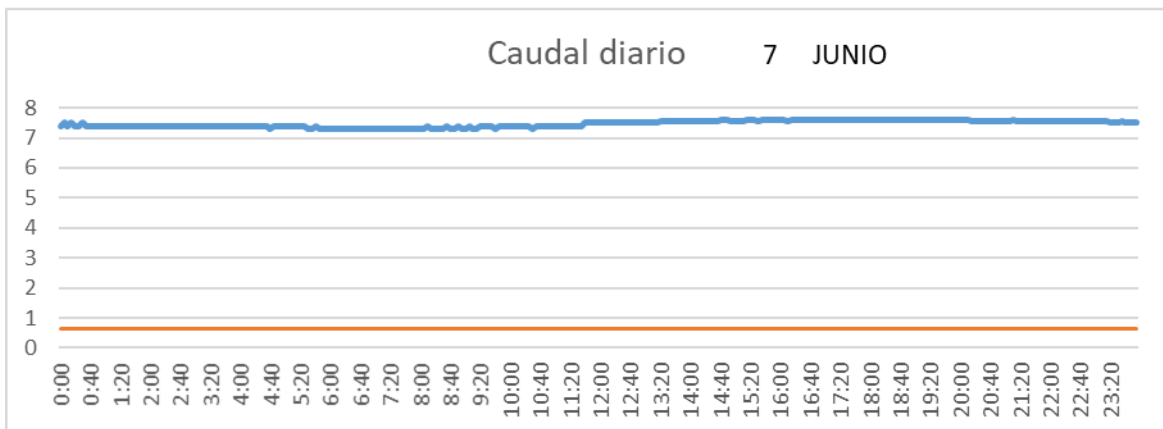
SALIDA TOBA



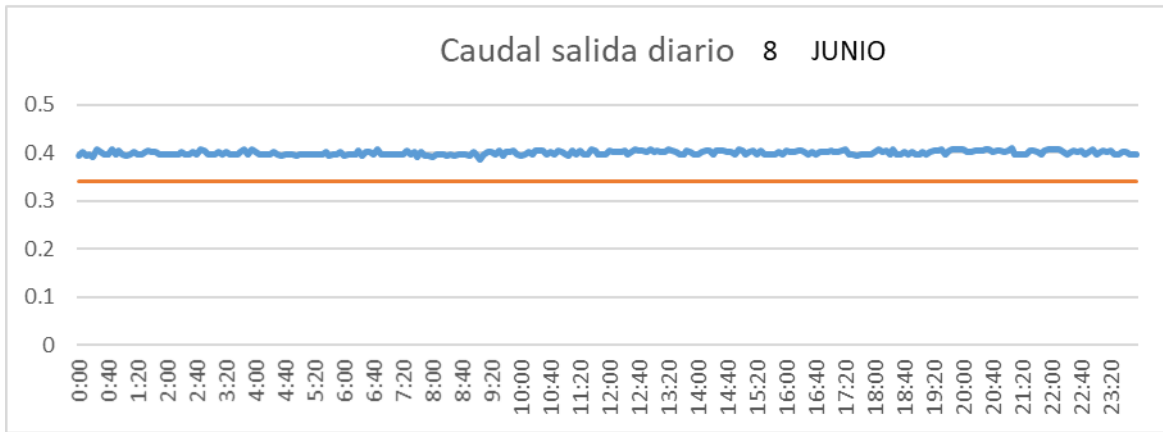
CUENCA



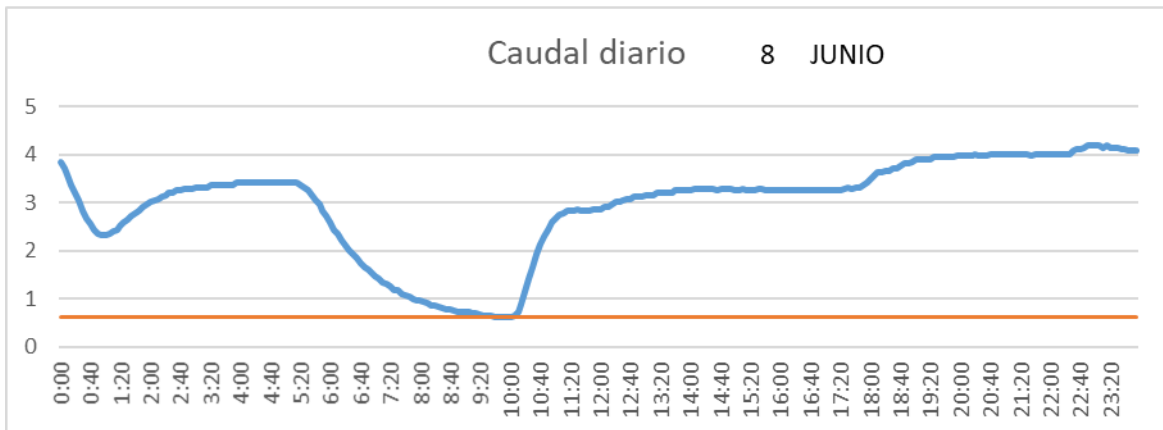
SAN LORENZO PARRILLA



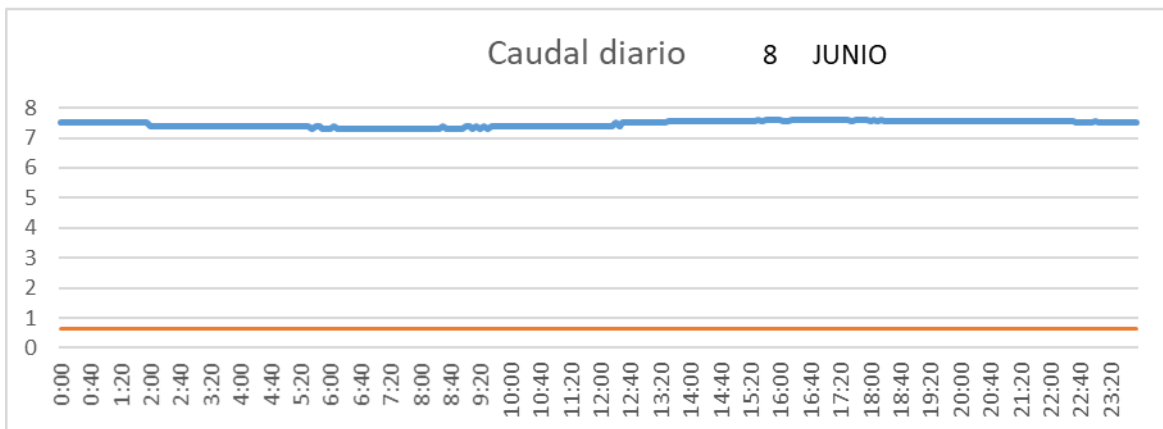
SALIDA TOBA



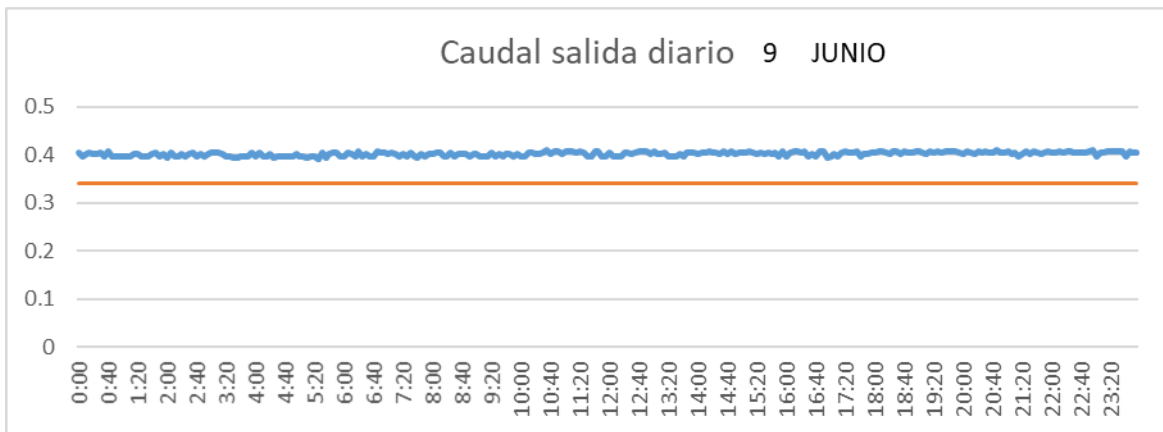
CUENCA



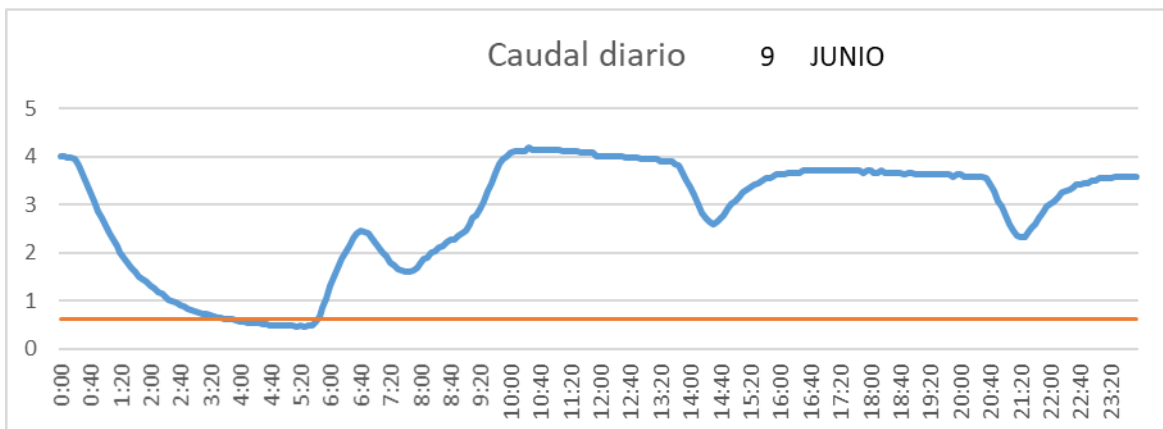
SAN LORENZO PARRILLA



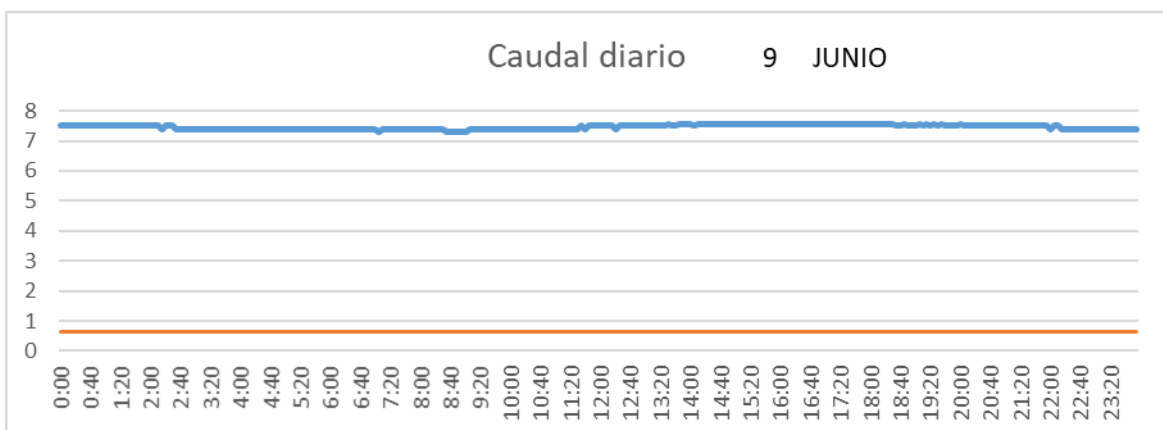
SALIDA TOBA



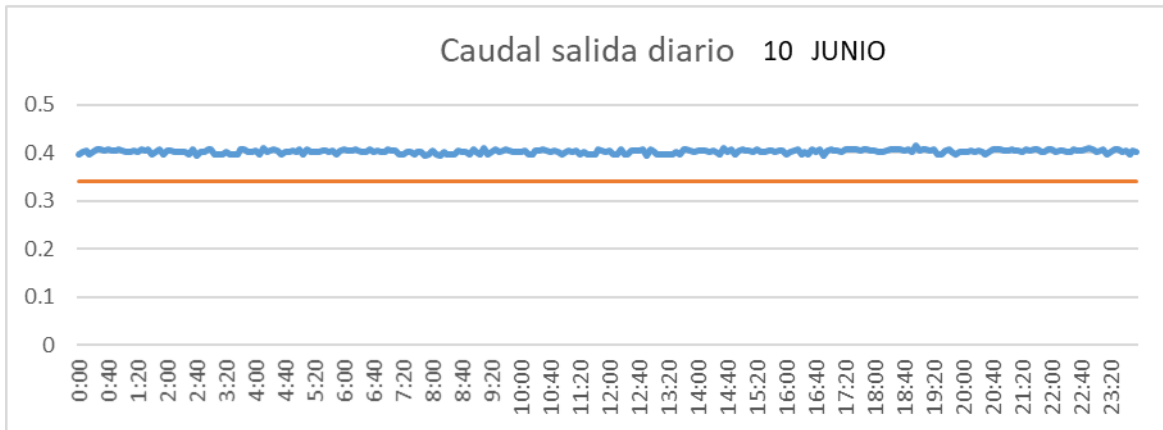
CUENCA



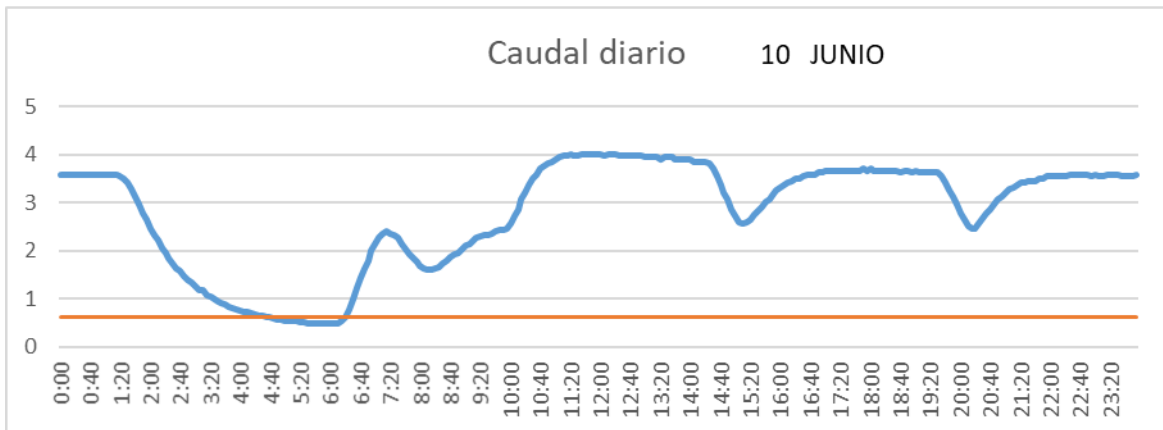
SAN LORENZO PARRILLA



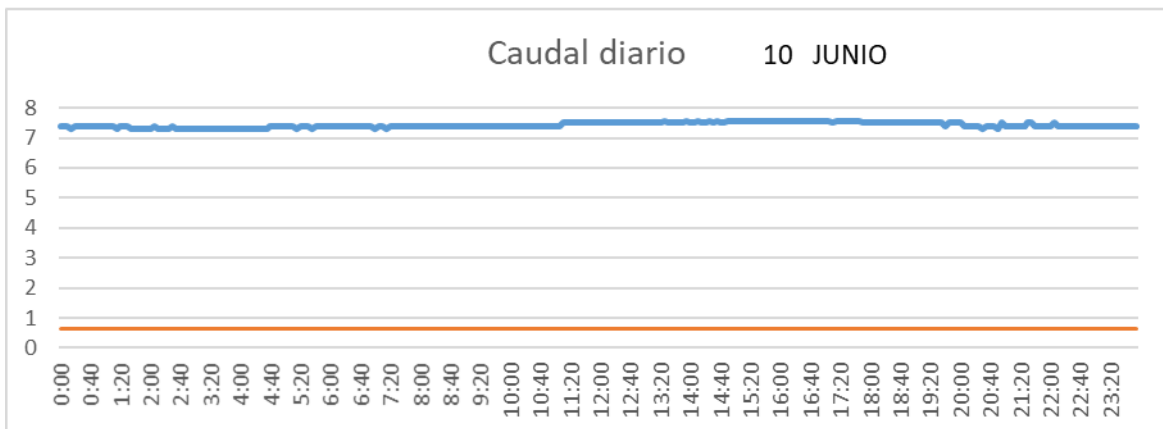
SALIDA TOBA



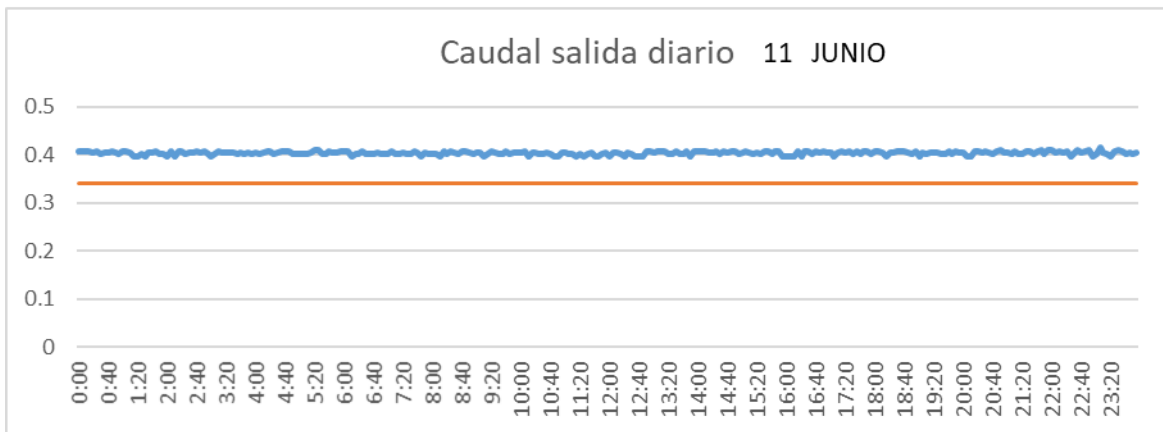
CUENCA



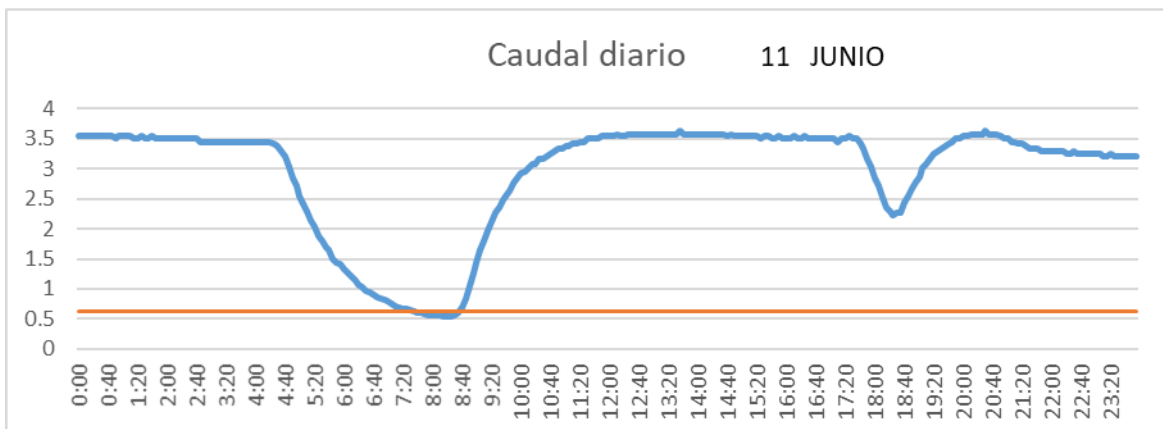
SAN LORENZO PARRILLA



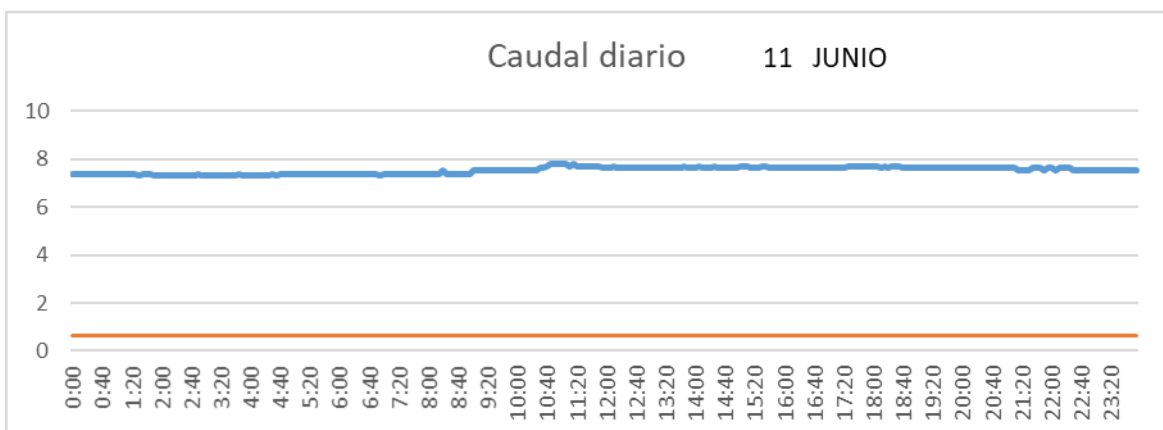
SALIDA TOBA



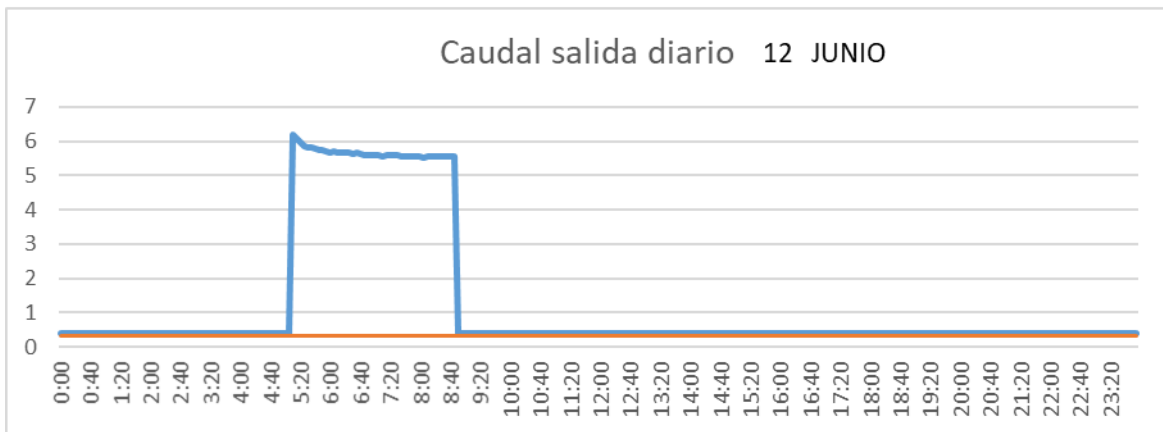
CUENCA



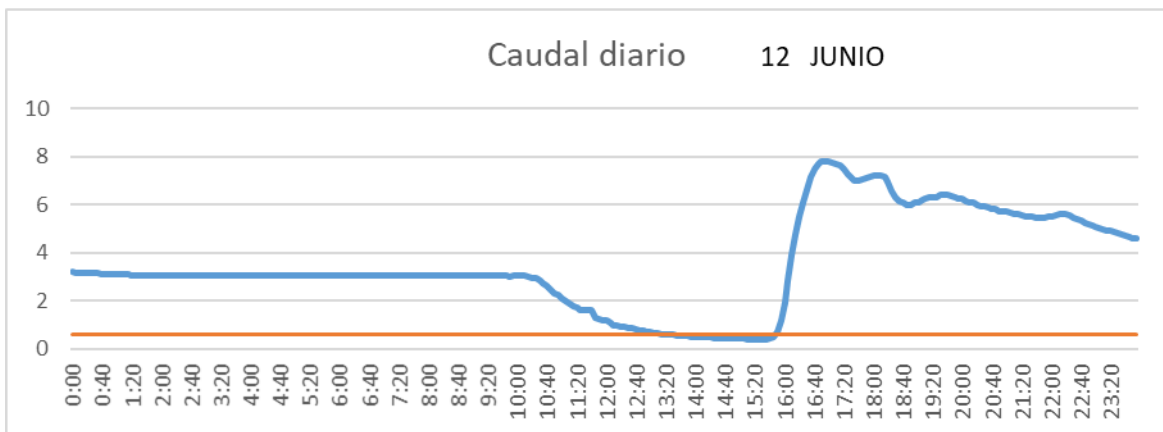
SAN LORENZO PARRILLA



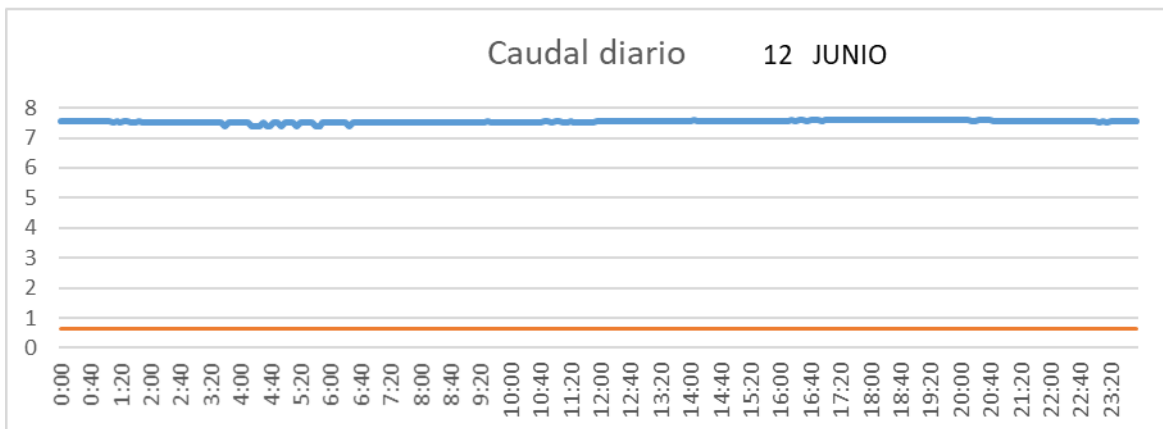
SALIDA TOBA



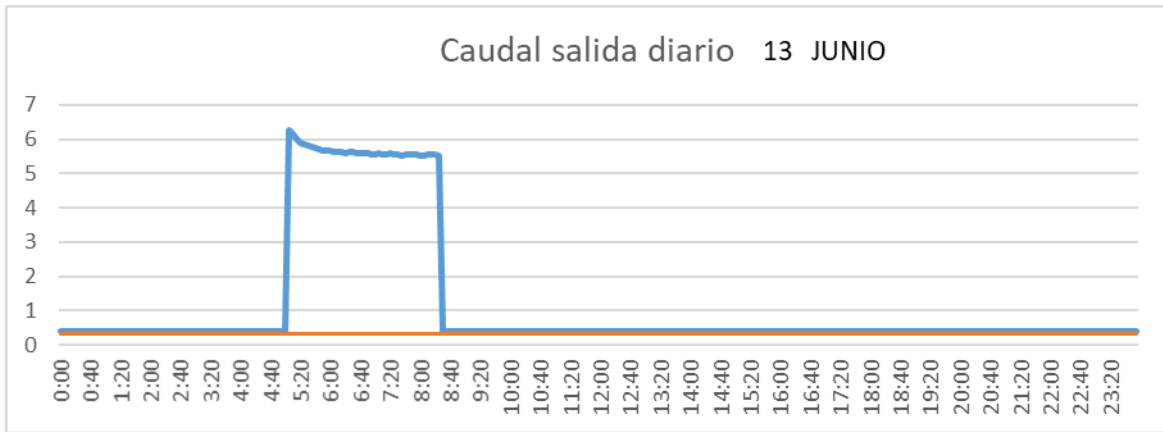
CUENCA



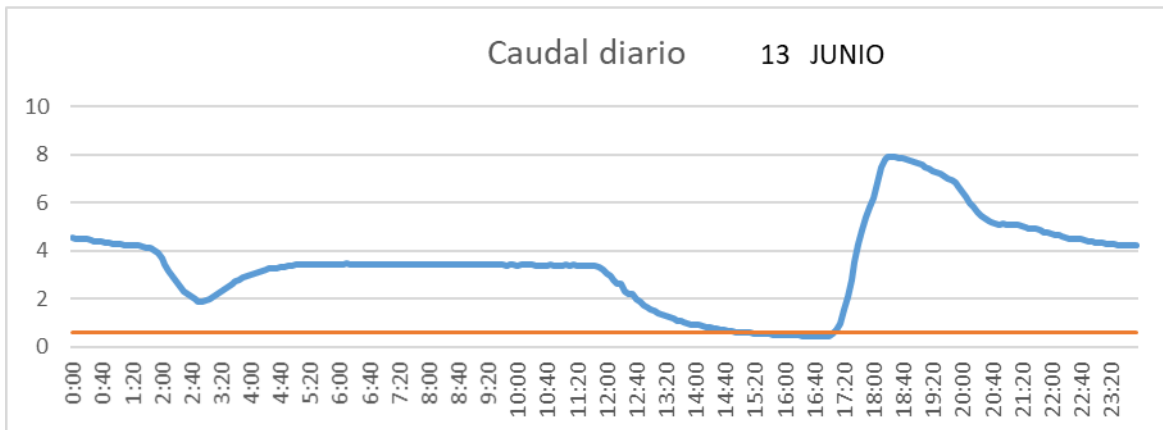
SAN LORENZO PARRILLA



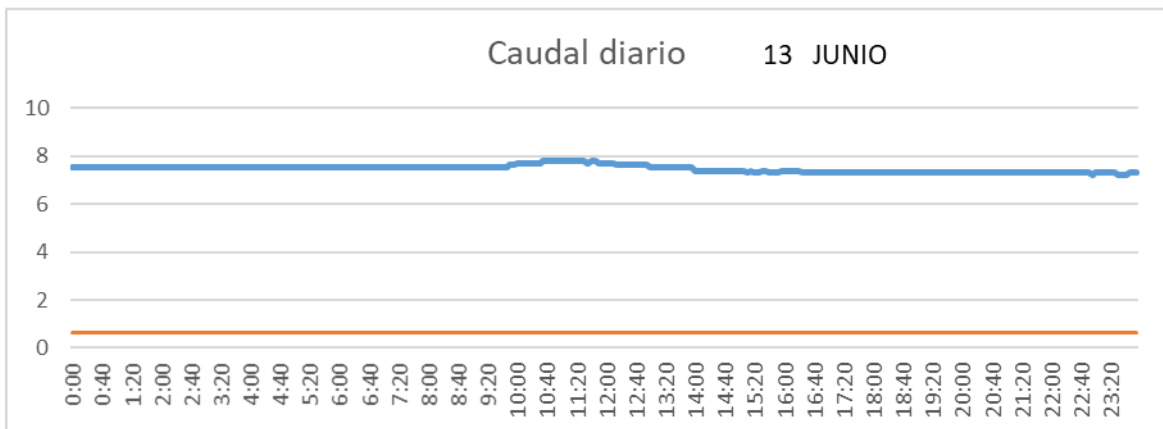
SALIDA TOBA



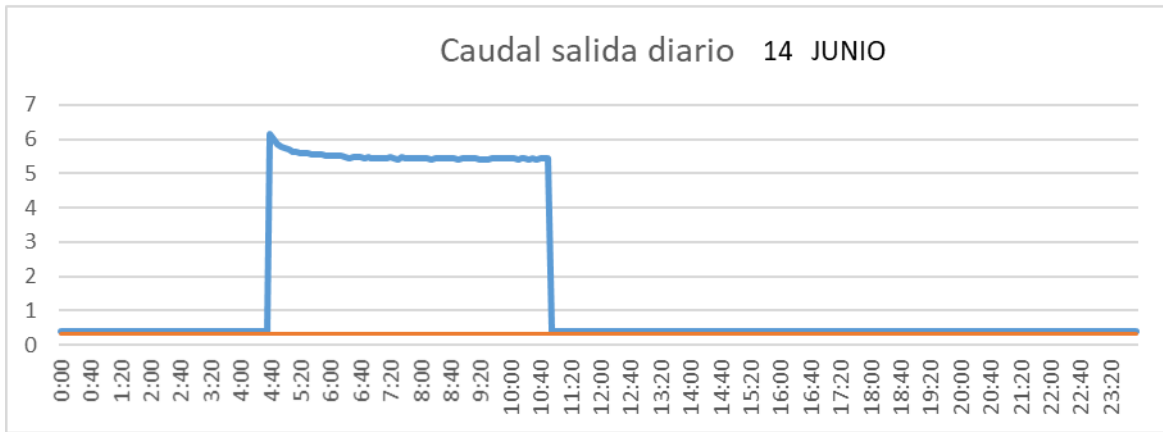
CUENCA



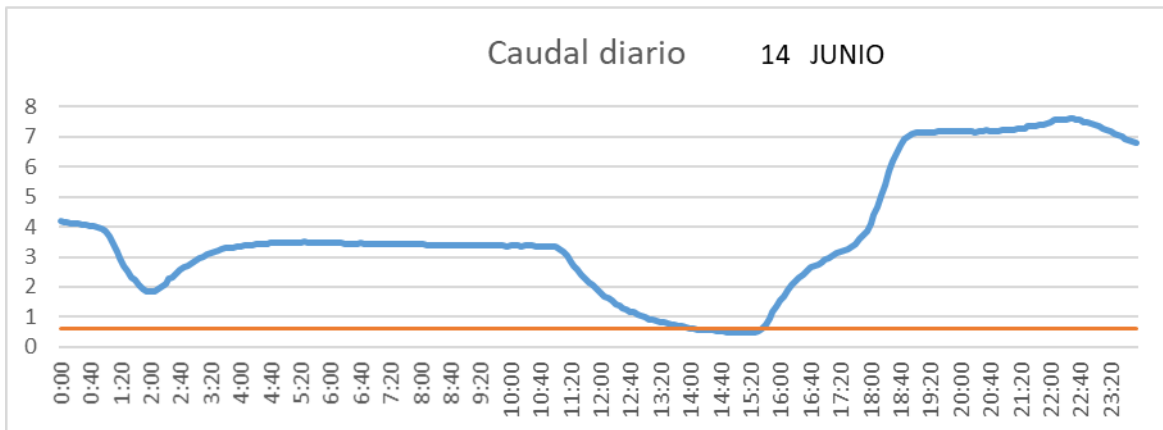
SAN LORENZO PARRILLA



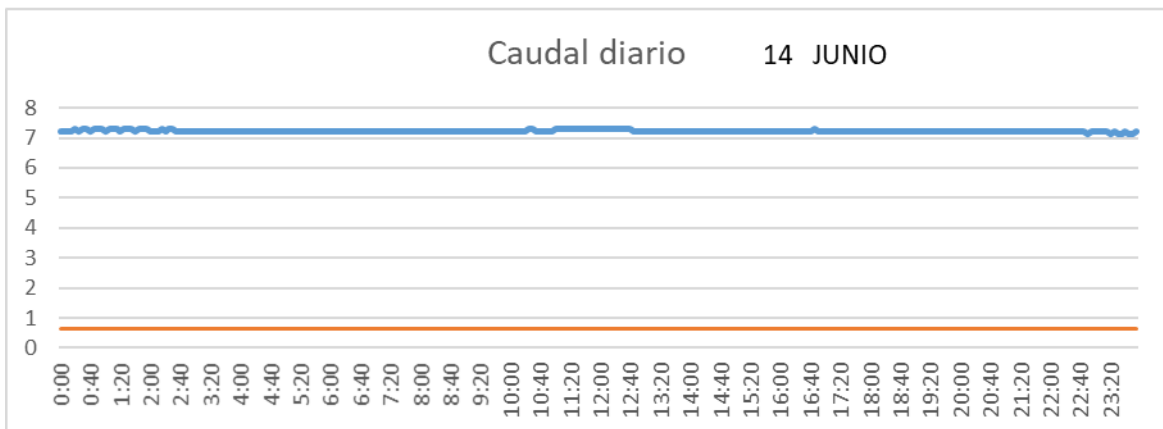
SALIDA TOBA



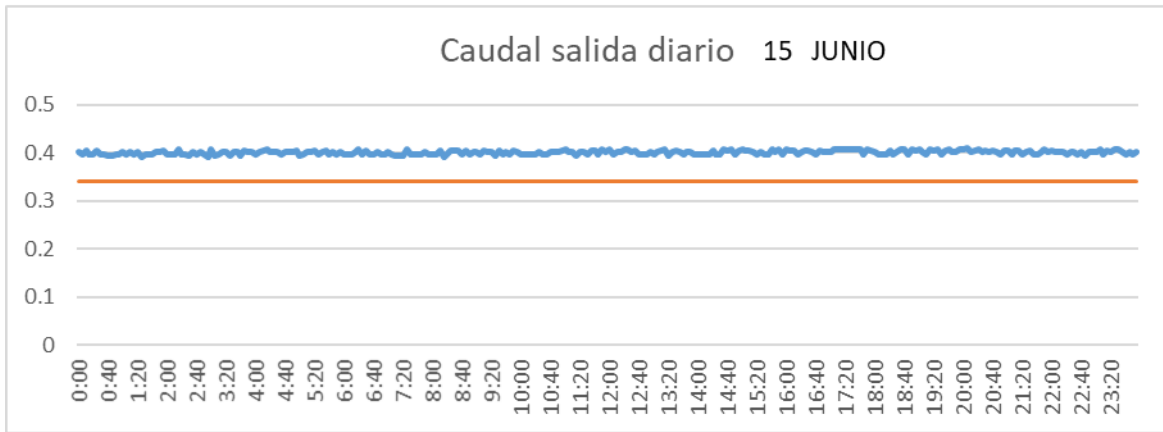
CUENCA



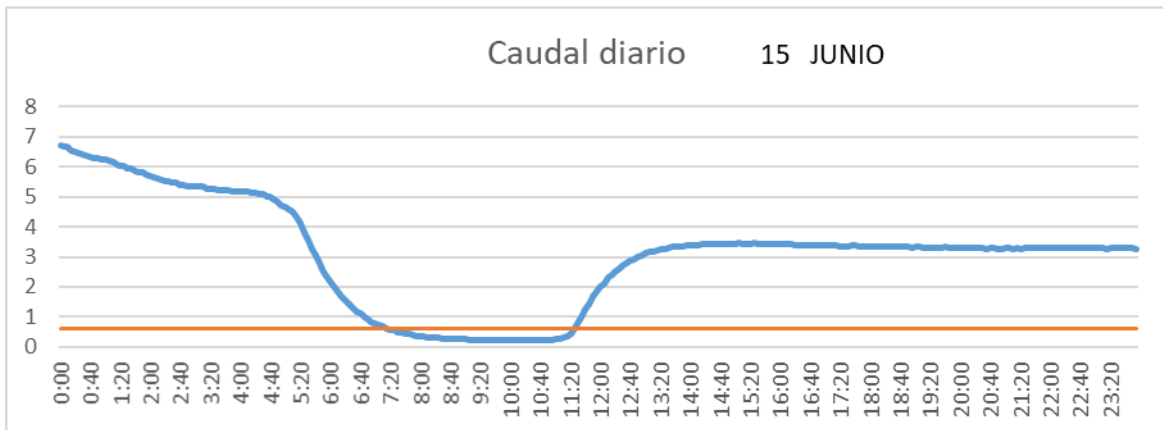
SAN LORENZO PARRILLA



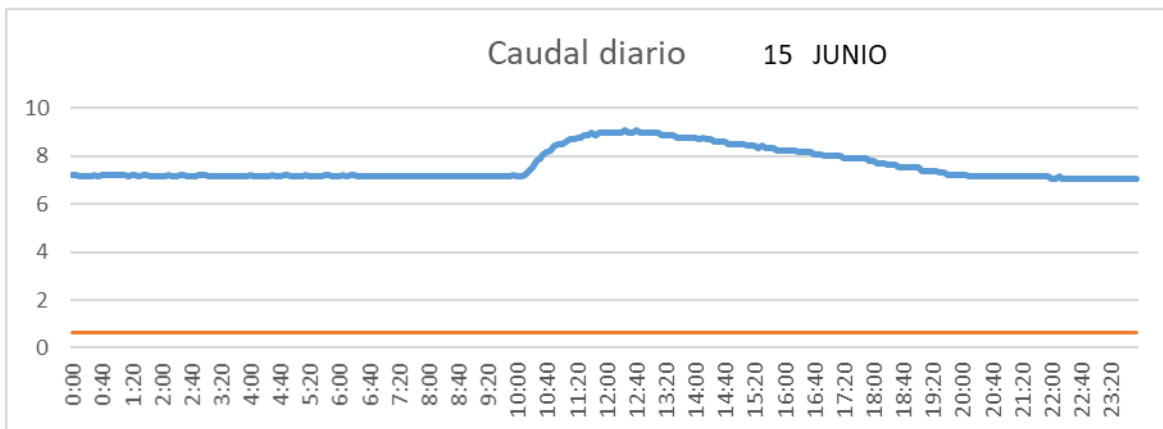
SALIDA TOBA



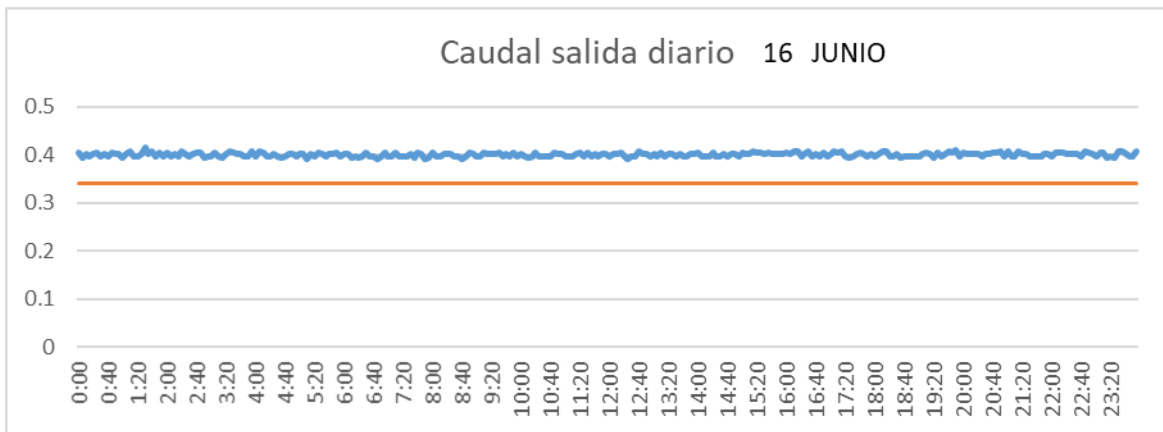
CUENCA



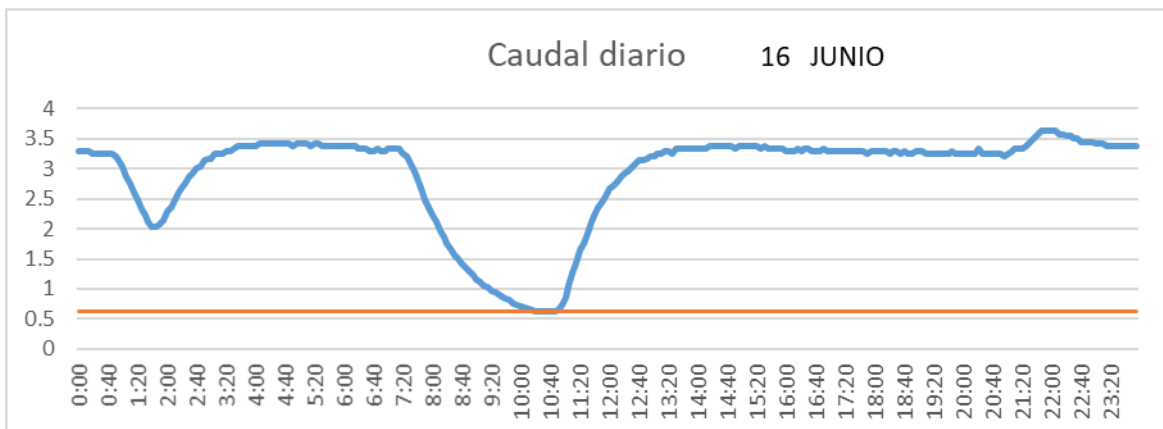
SAN LORENZO PARRILLA



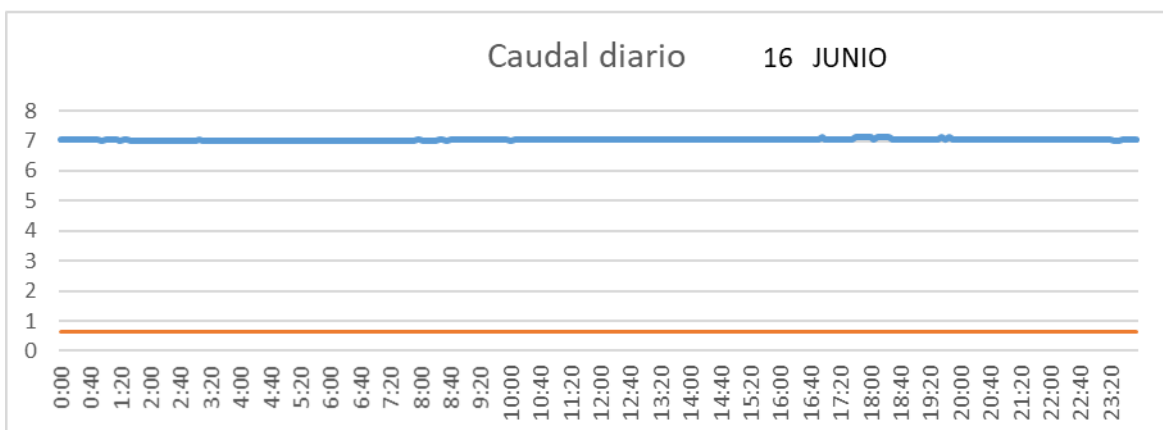
SALIDA TOBA



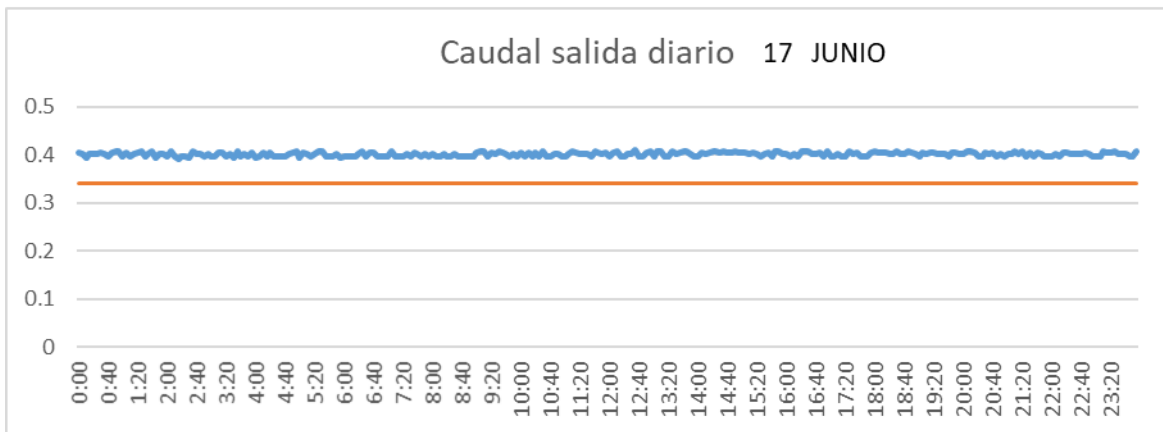
CUENCA



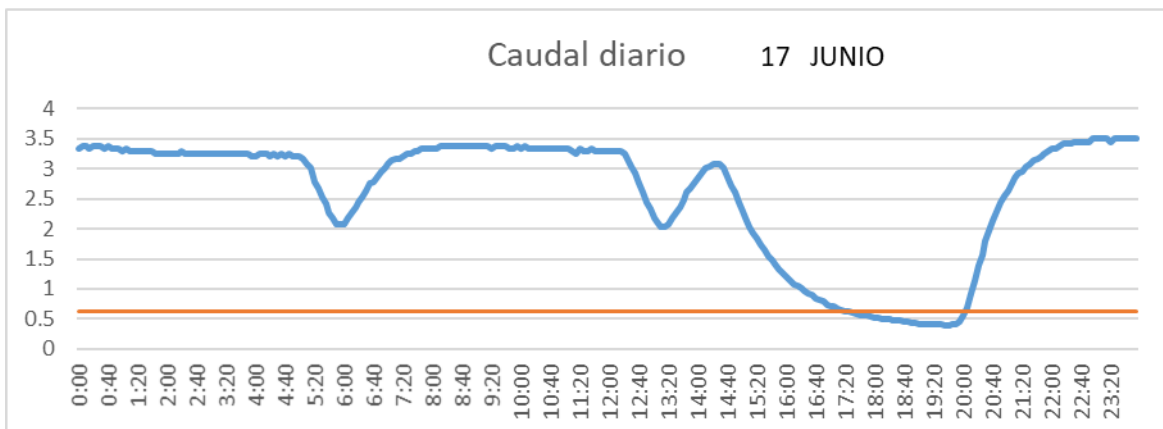
SAN LORENZO PARRILLA



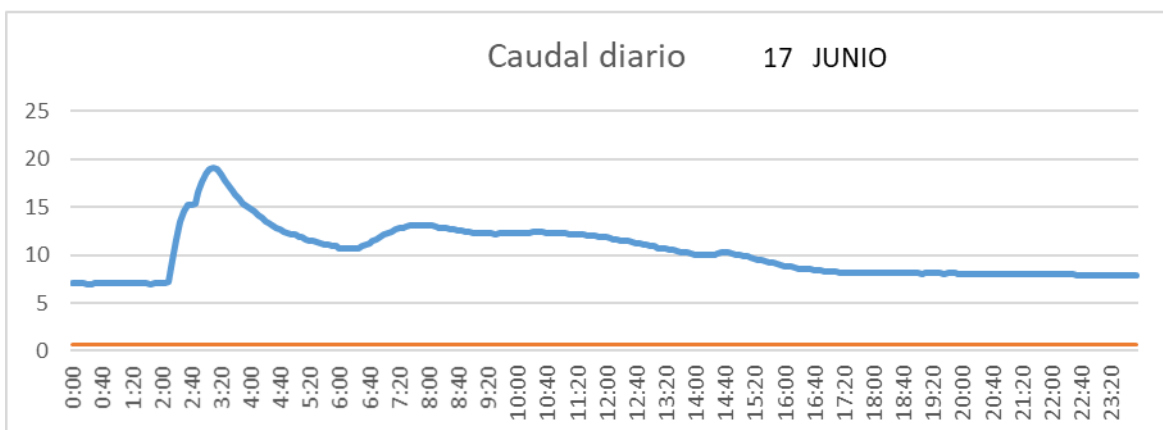
SALIDA TOBA



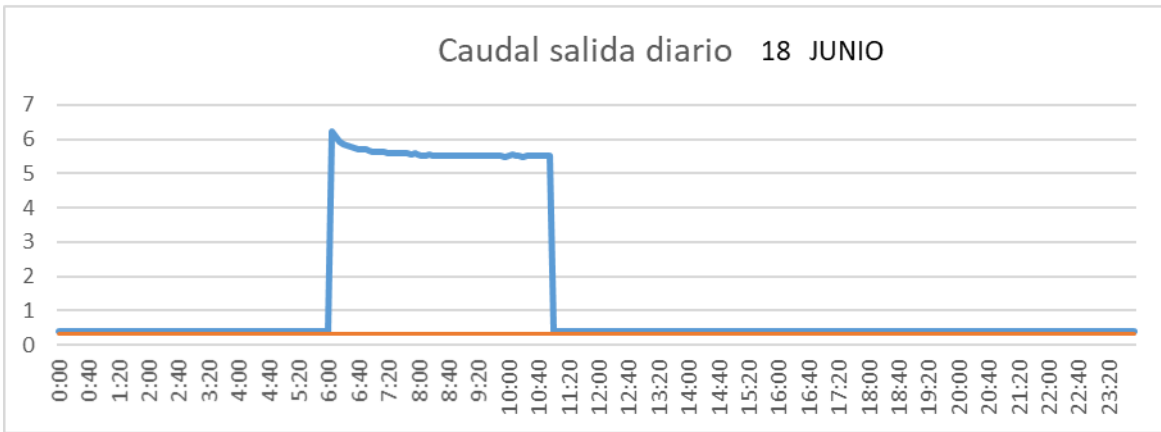
CUENCA



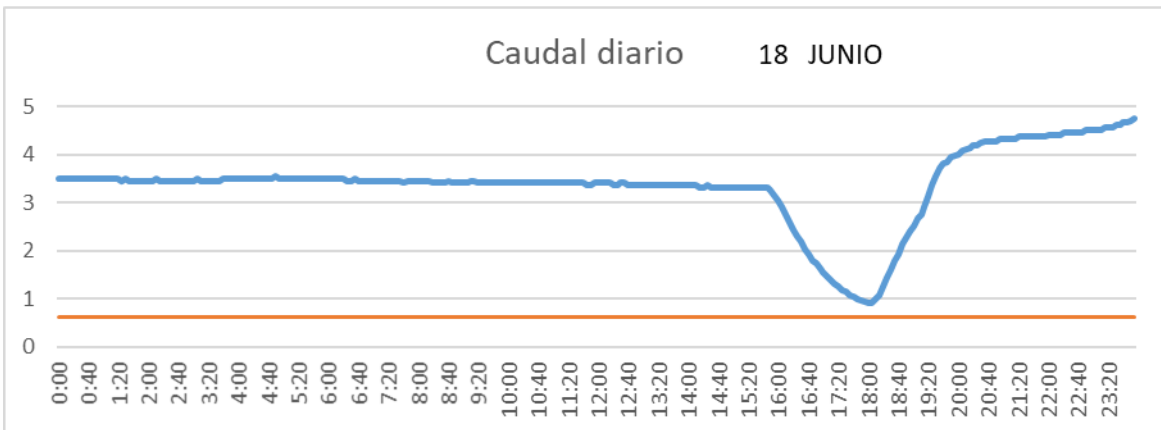
SAN LORENZO PARRILLA



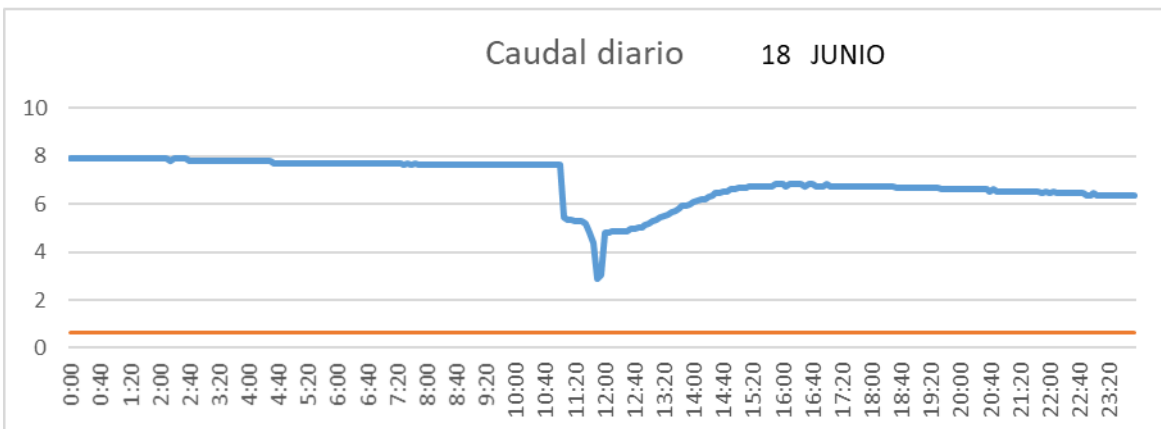
SALIDA TOBA



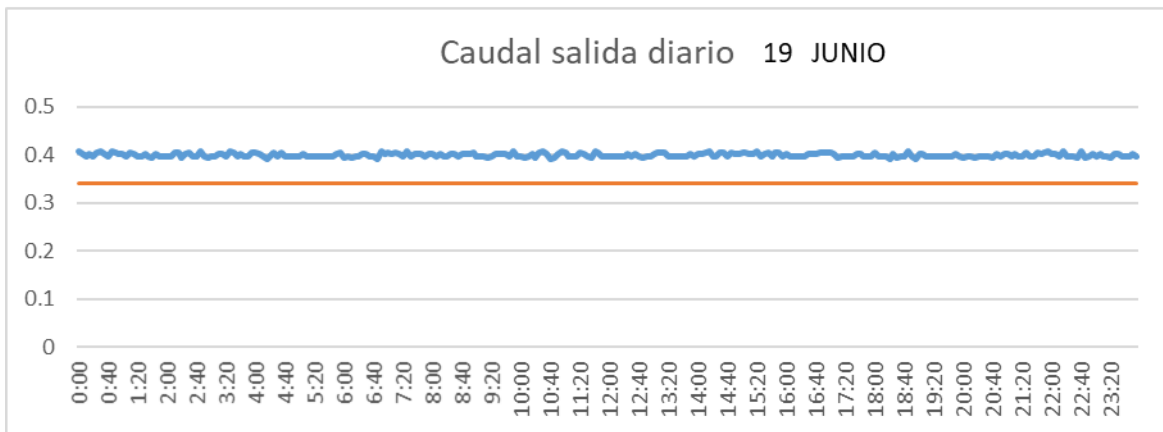
CUENCA



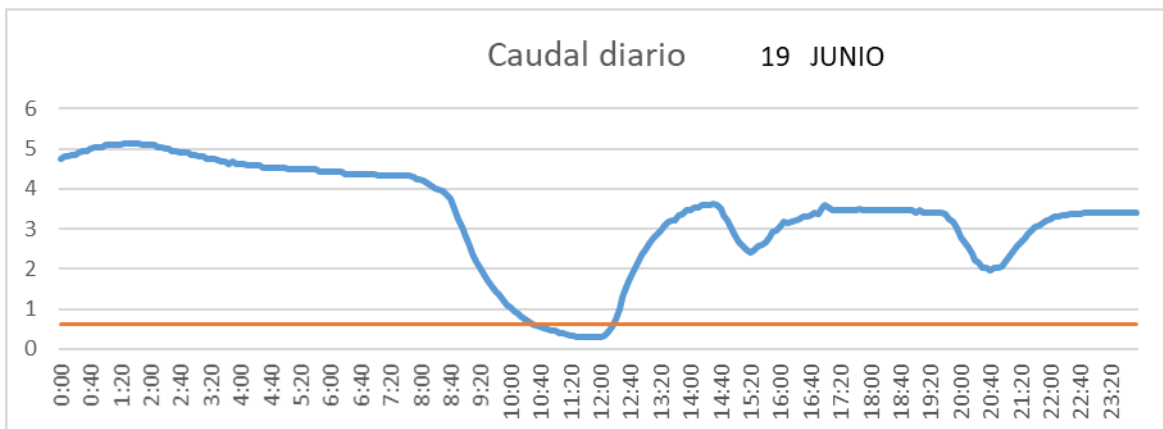
SAN LORENZO PARRILLA



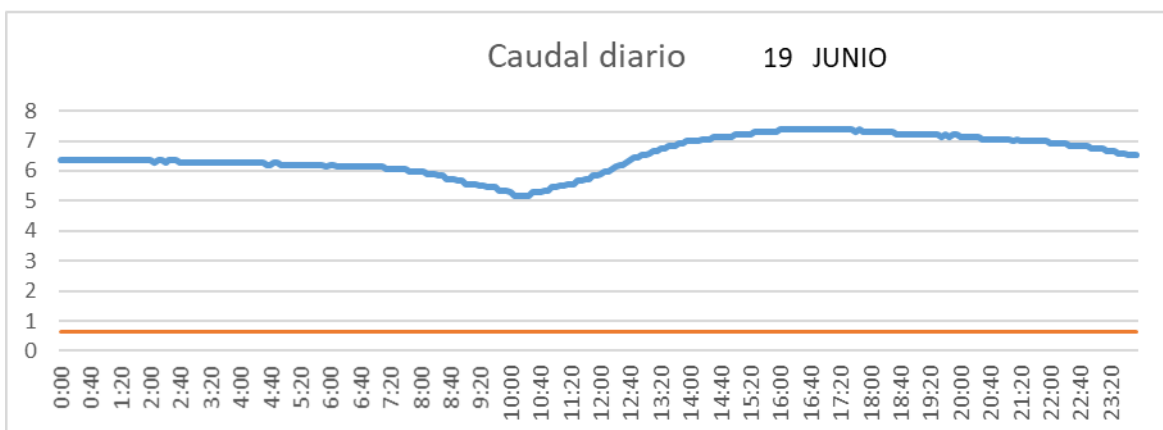
SALIDA TOBA



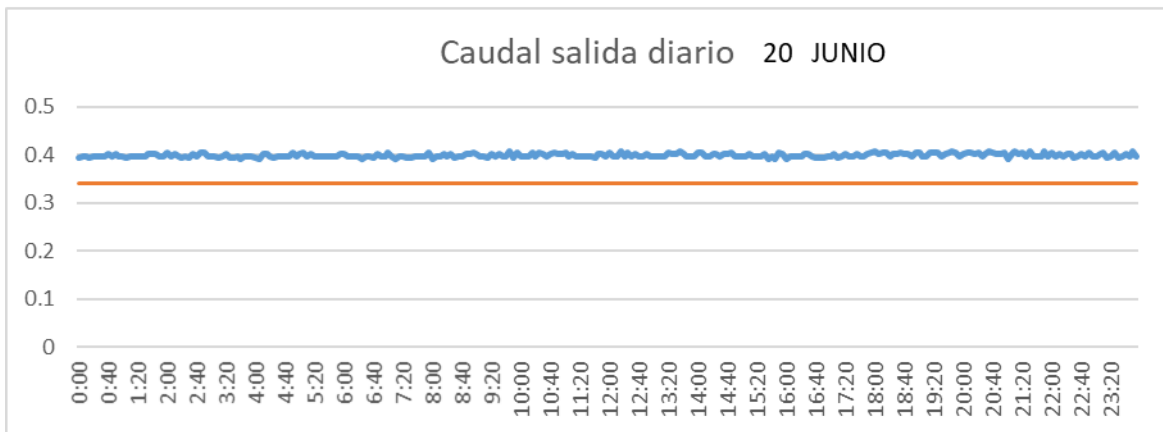
CUENCA



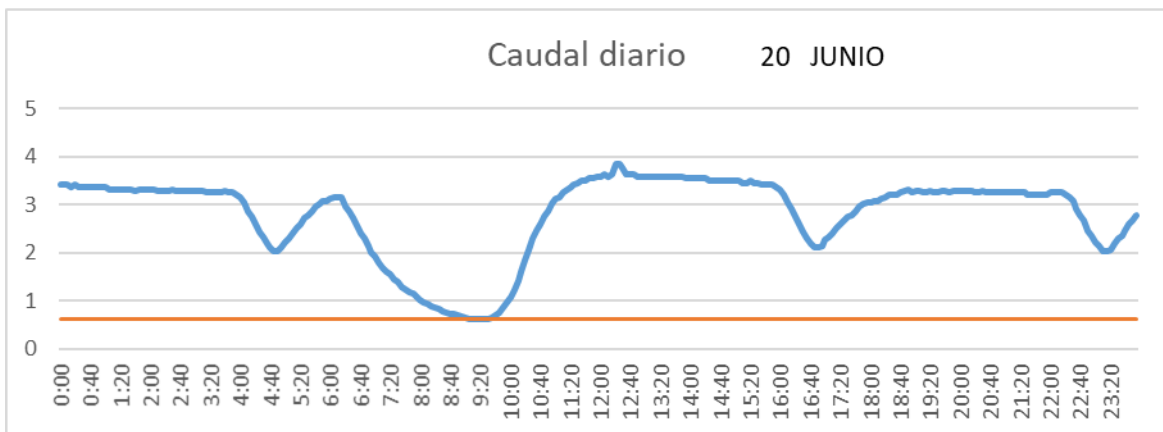
SAN LORENZO PARRILLA



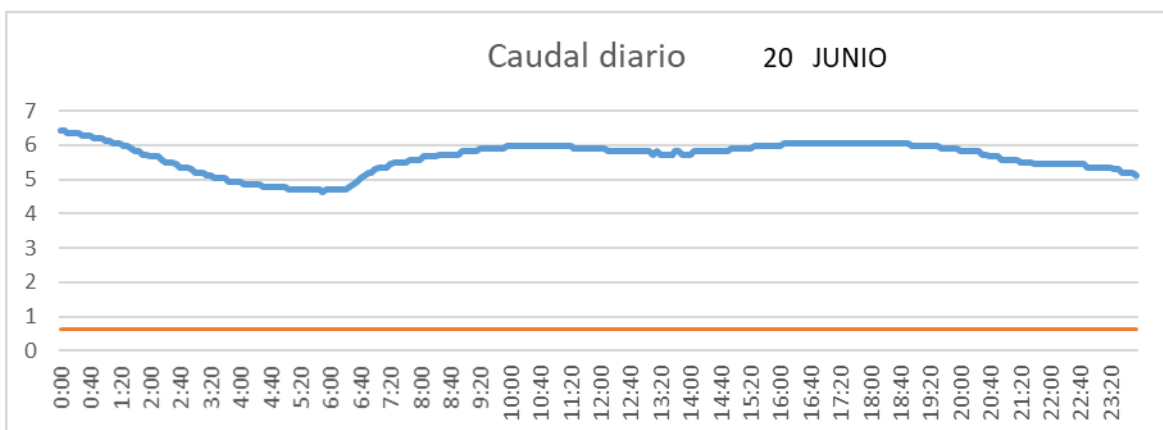
SALIDA TOBA



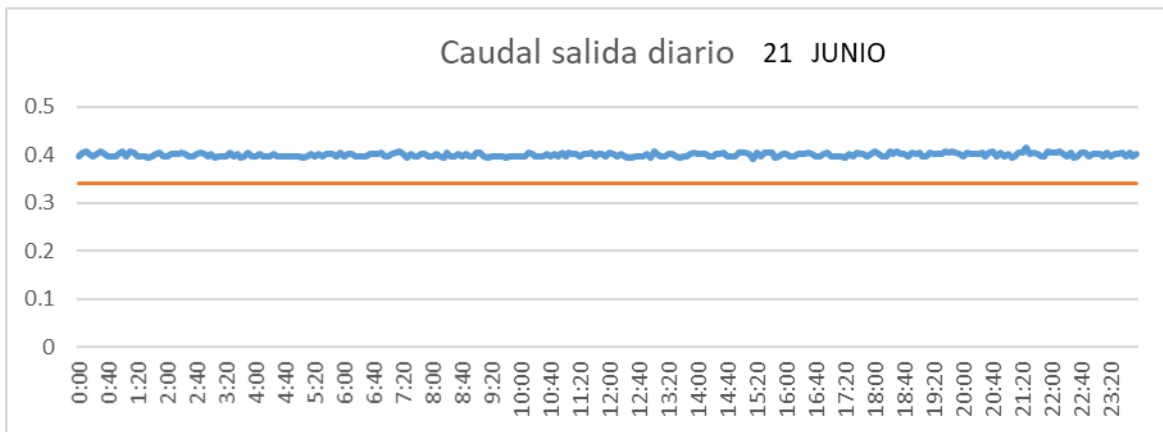
CUENCA



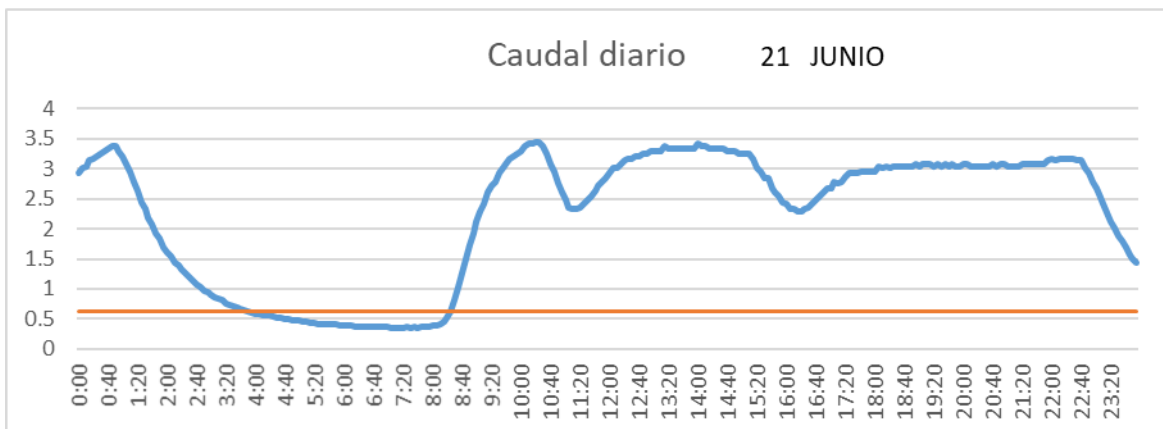
SAN LORENZO PARRILLA



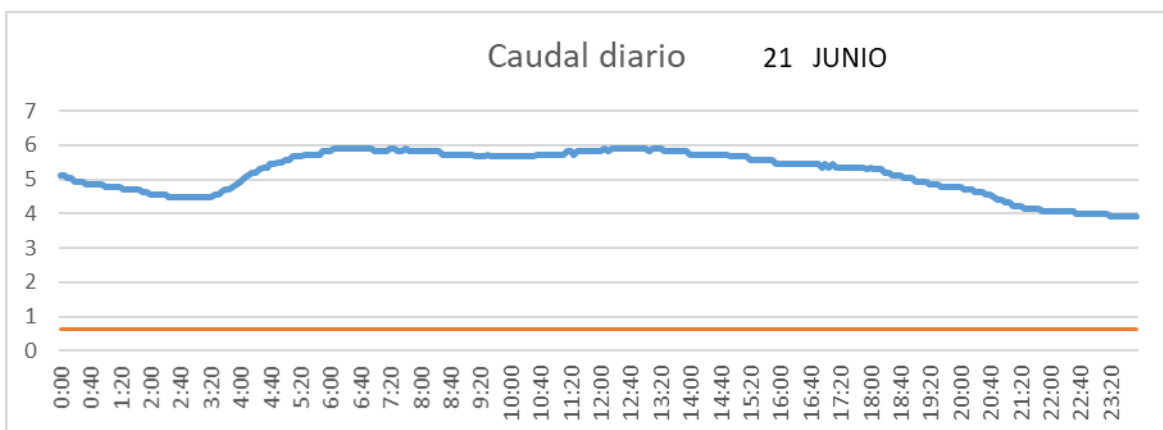
SALIDA TOBA



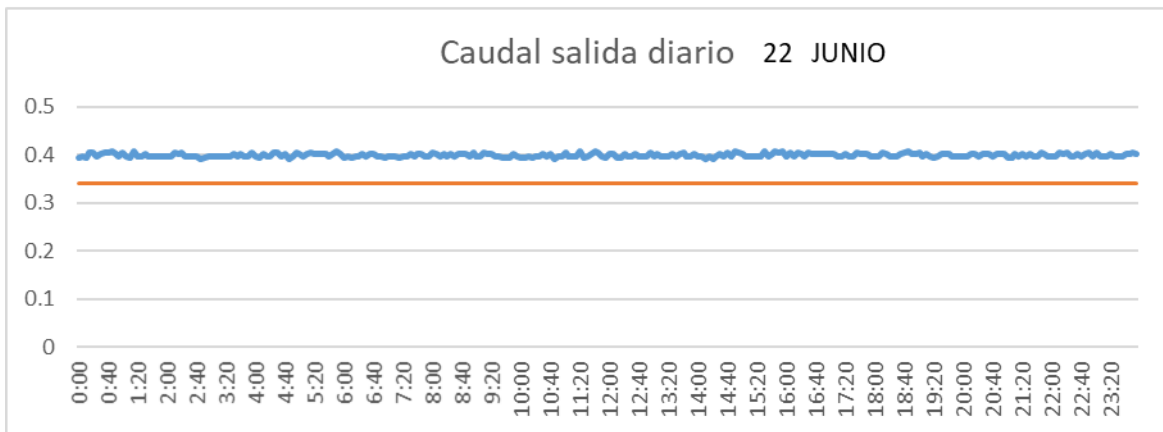
CUENCA



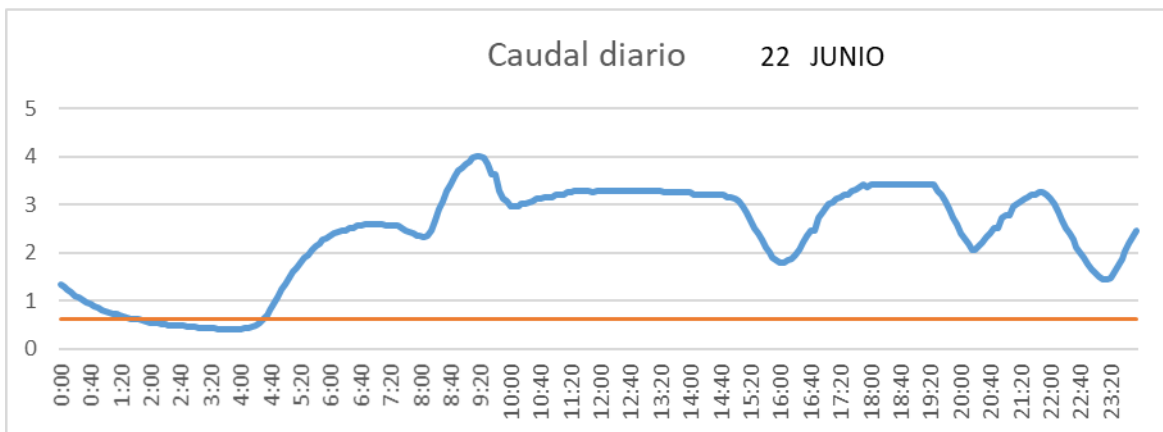
SAN LORENZO PARRILLA



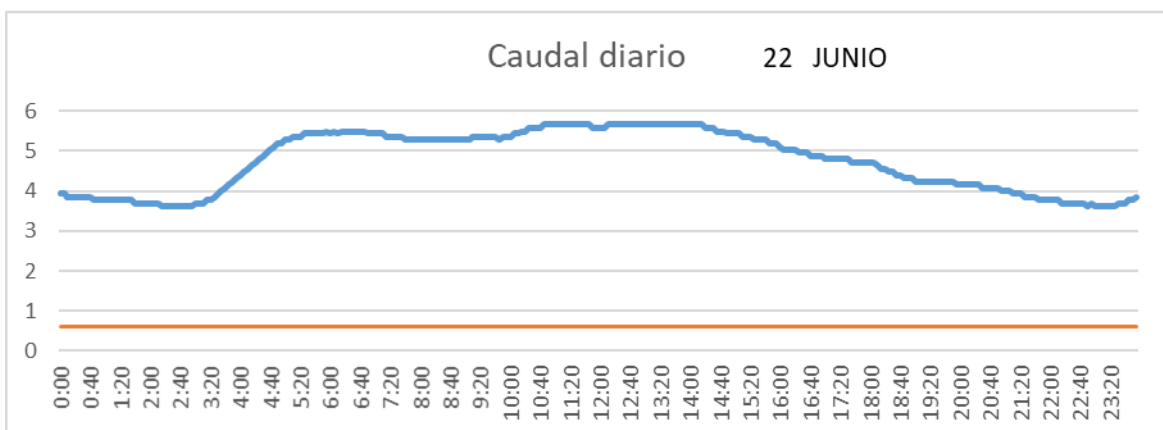
SALIDA TOBA



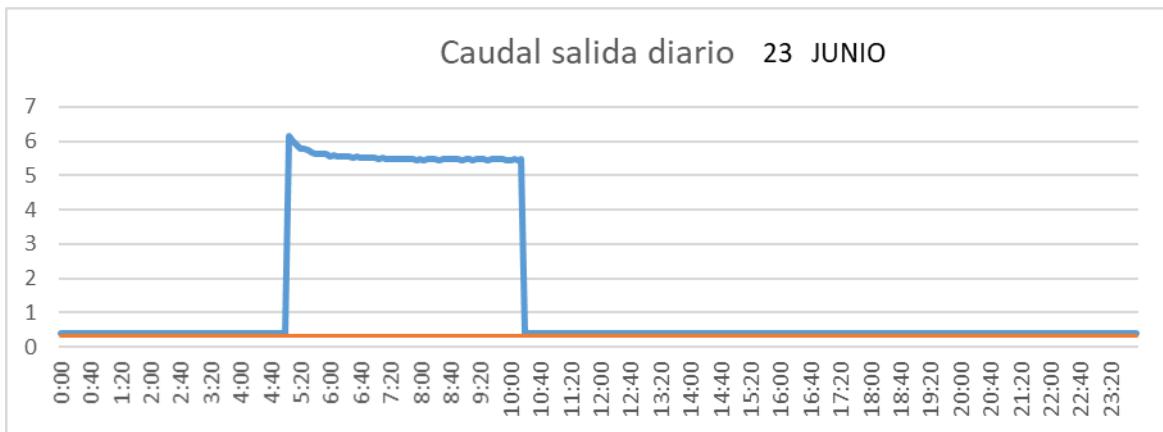
CUENCA



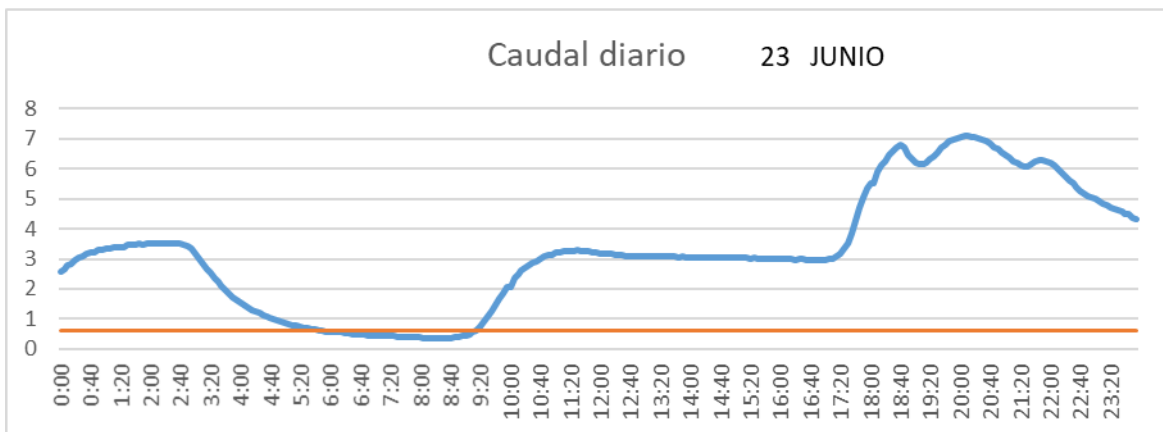
SAN LORENZO PARRILLA



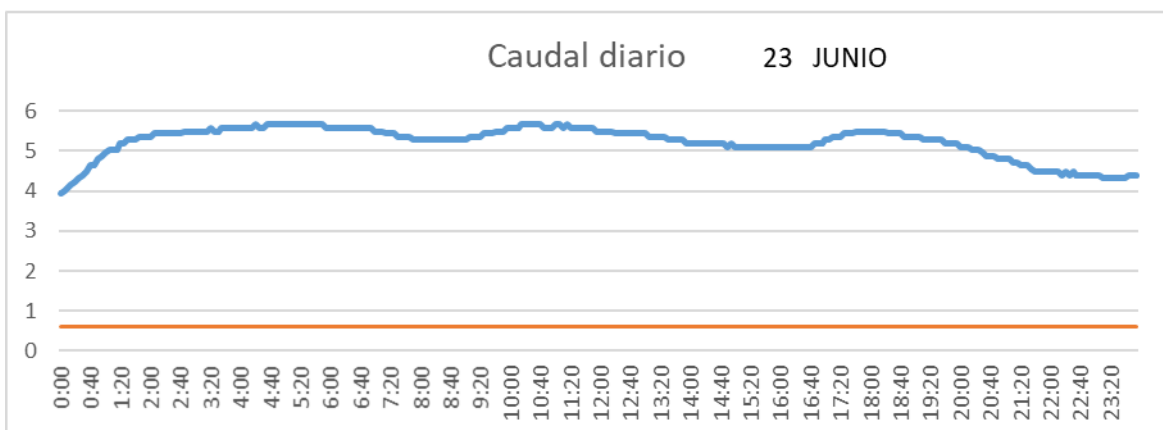
SALIDA TOBA



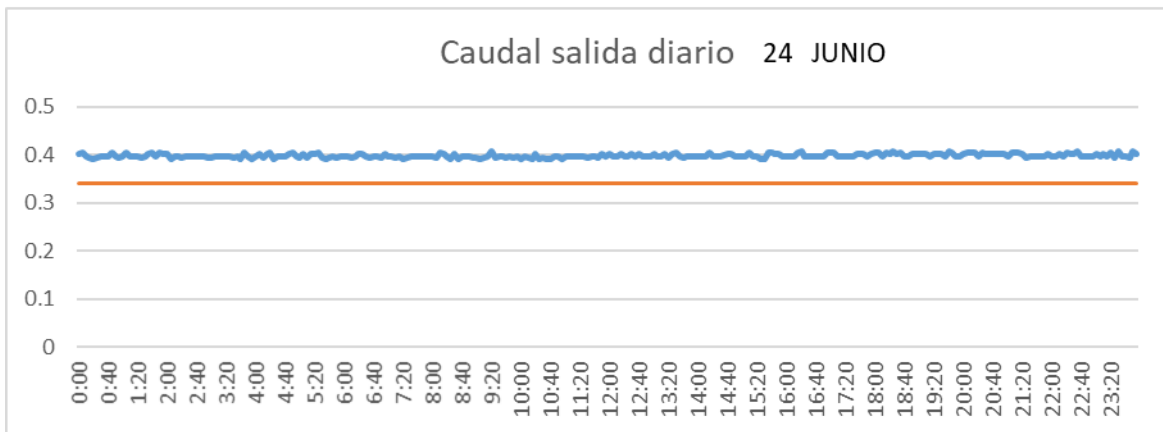
CUENCA



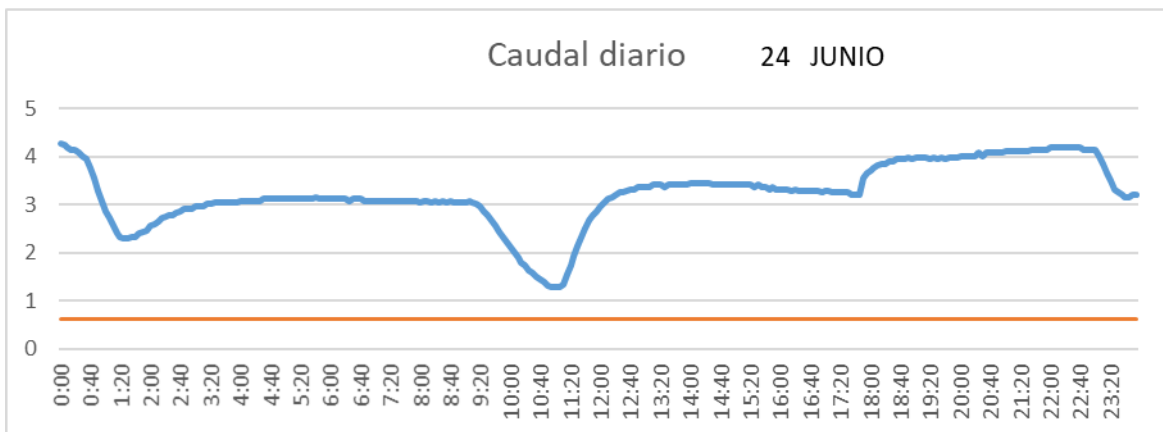
SAN LORENZO PARRILLA



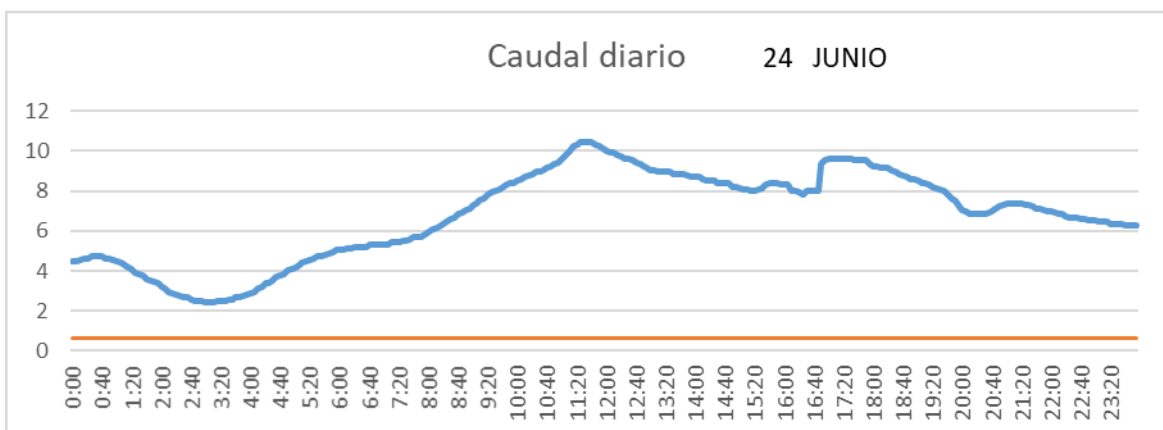
SALIDA TOBA



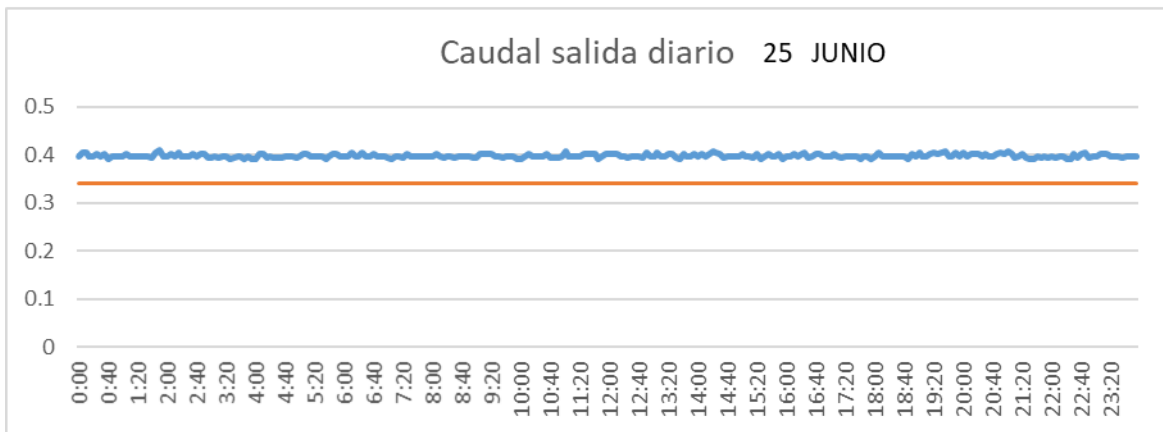
CUENCA



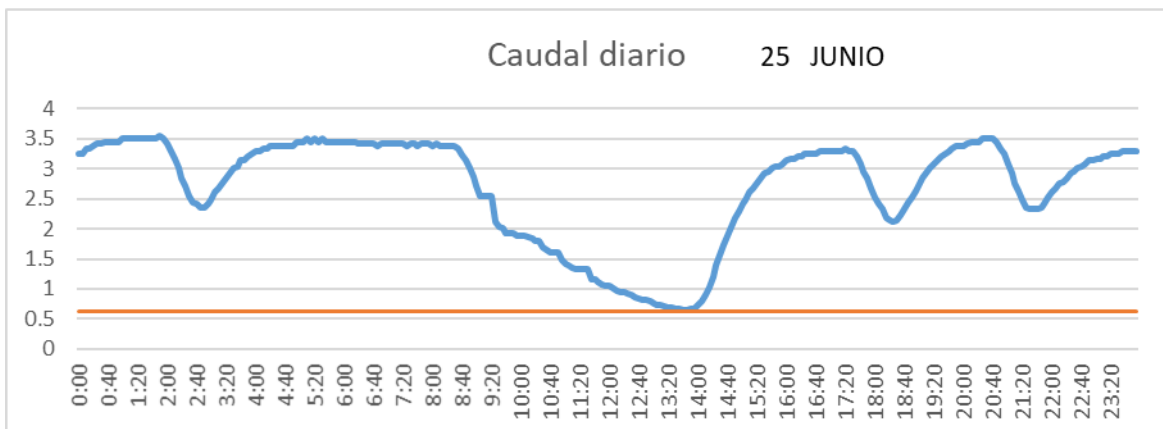
SAN LORENZO PARRILLA



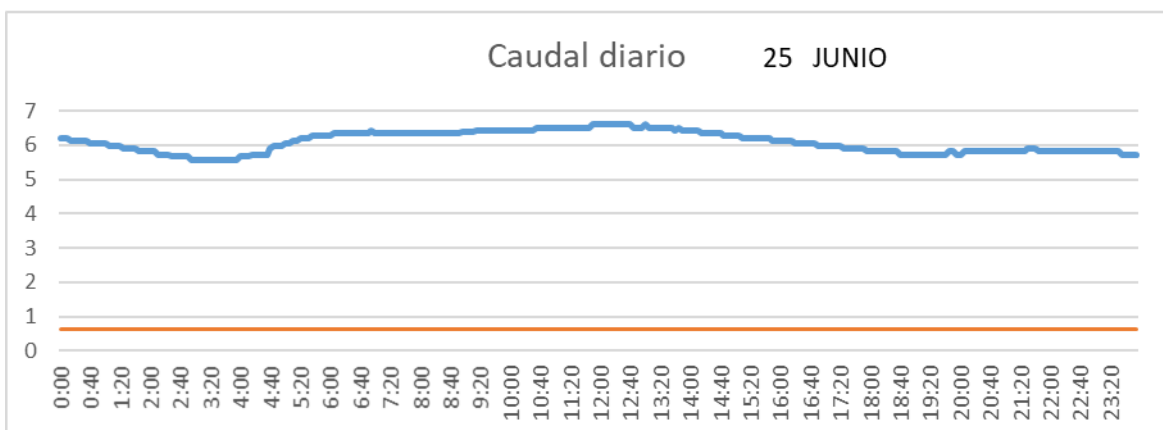
SALIDA TOBA



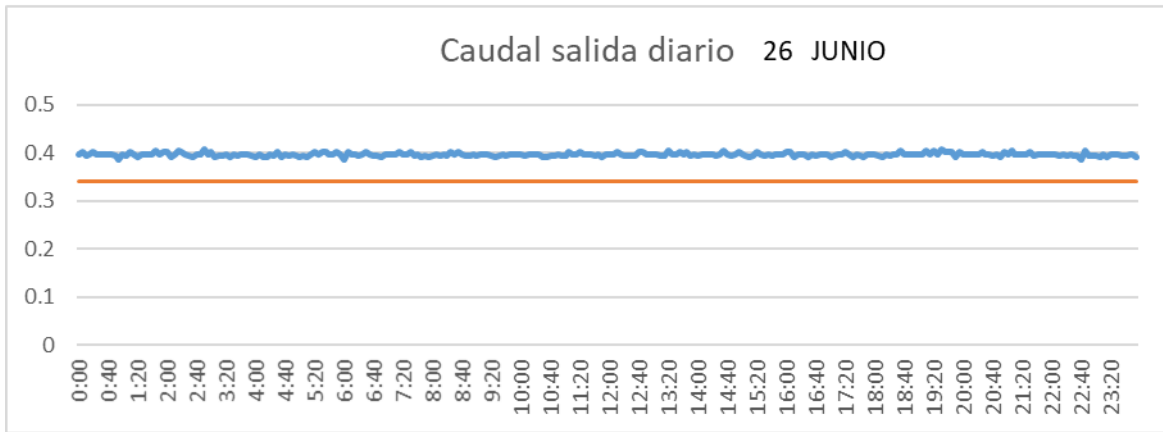
CUENCA



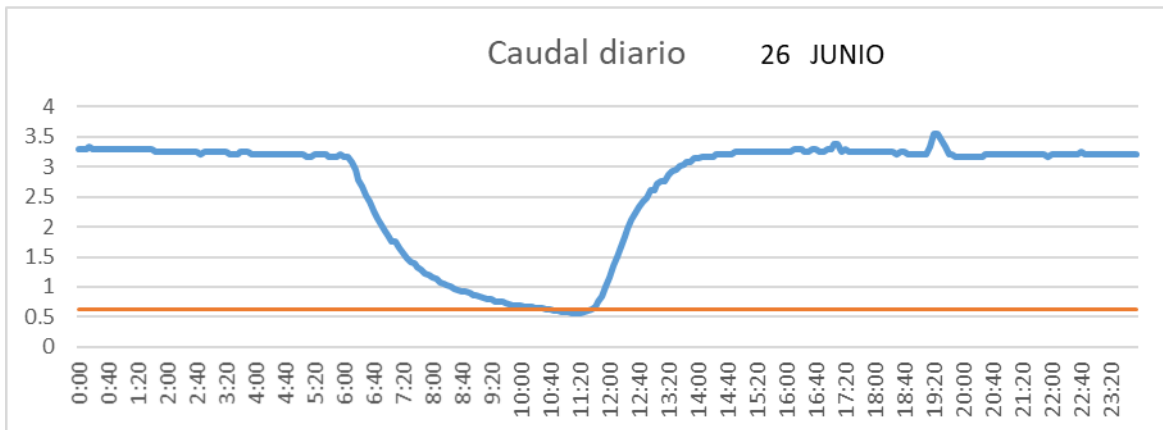
SAN LORENZO PARRILLA



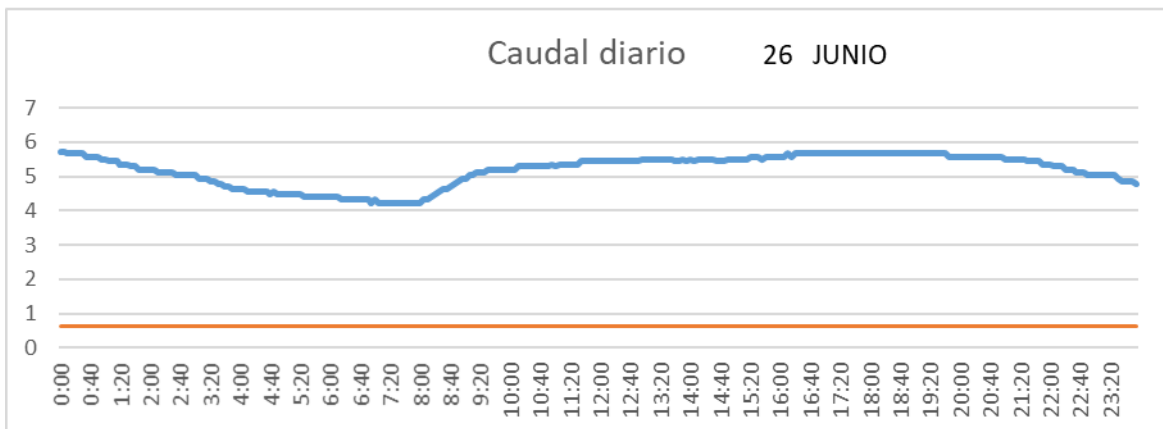
SALIDA TOBA



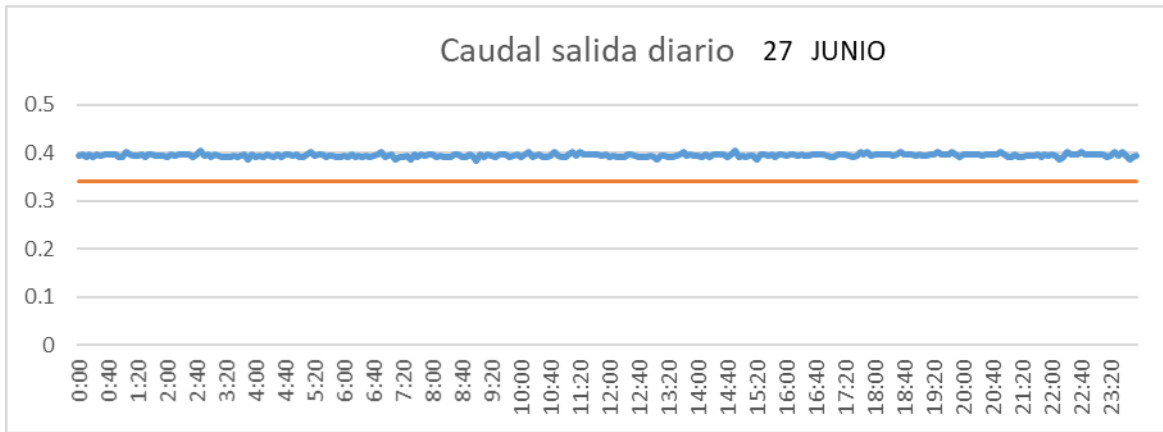
CUENCA



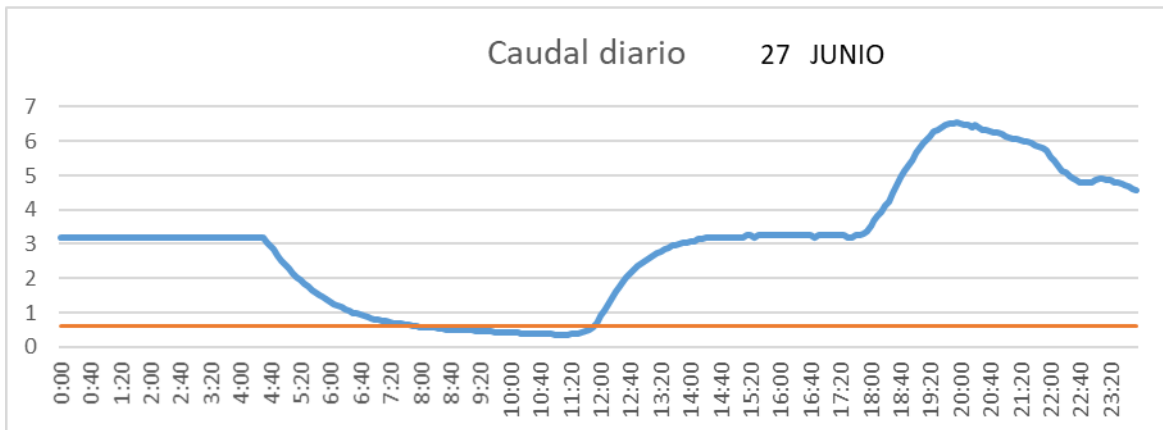
SAN LORENZO PARRILLA



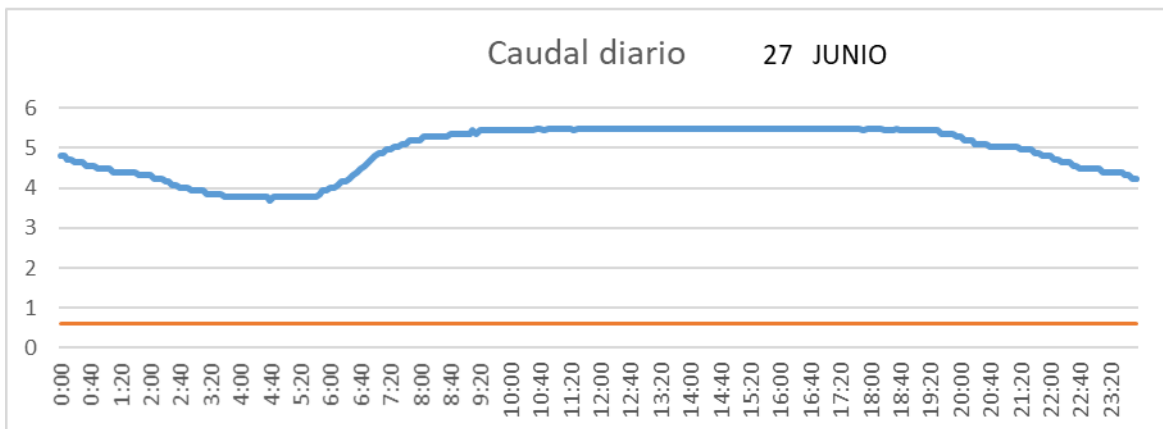
SALIDA TOBA



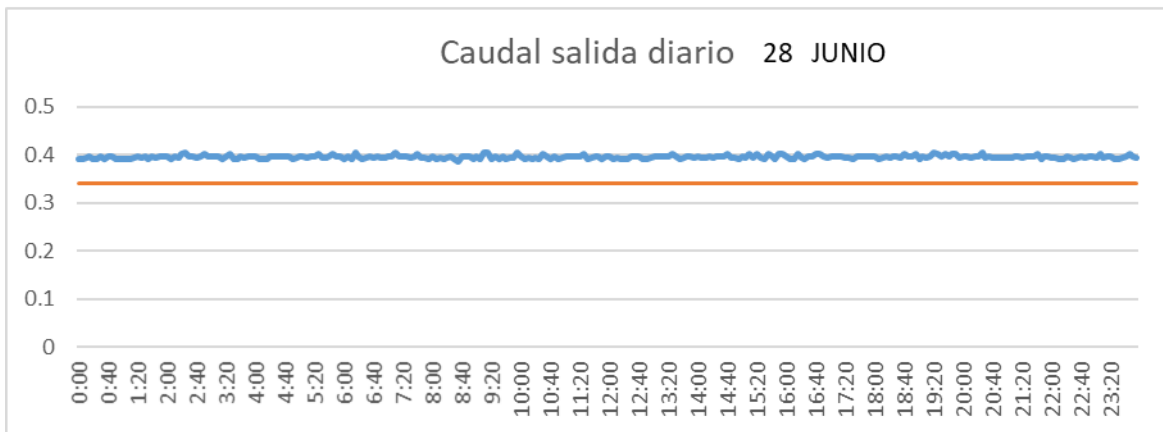
CUENCA



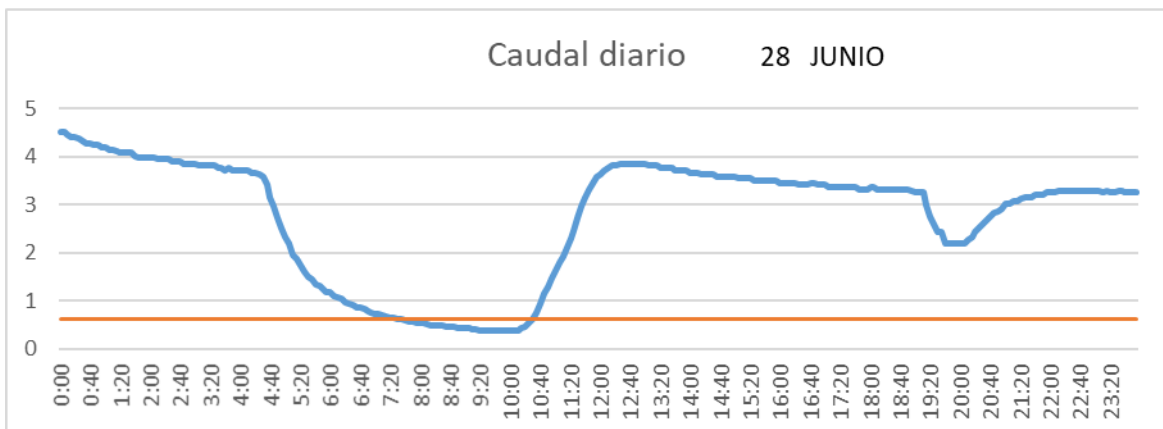
SAN LORENZO PARRILLA



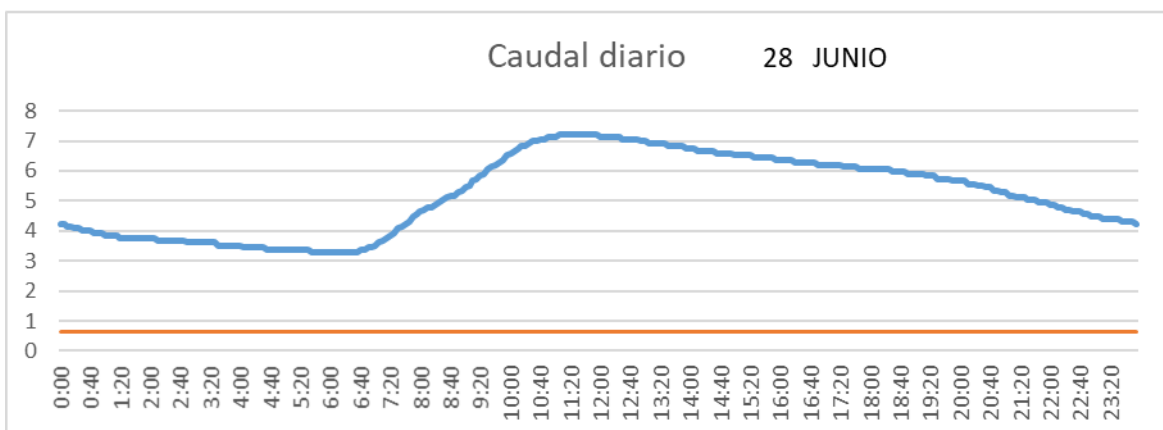
SALIDA TOBA



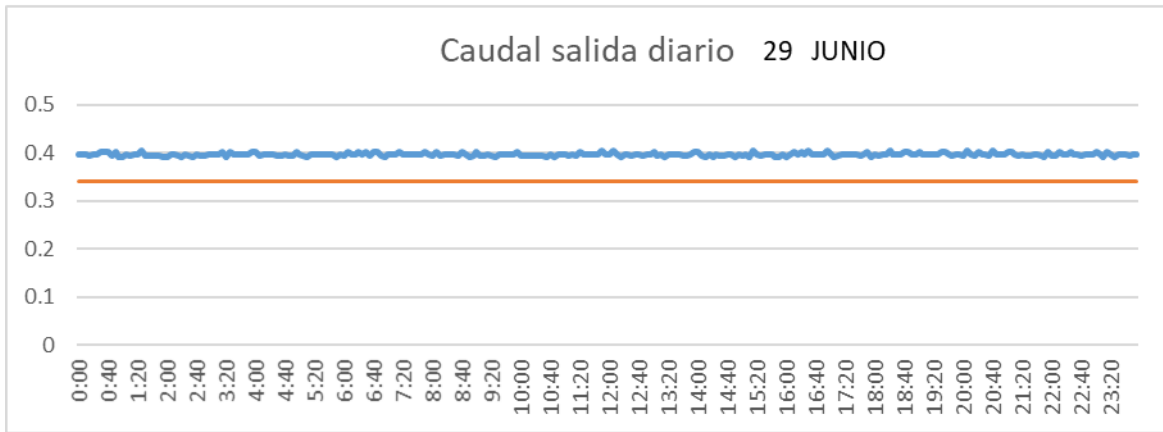
CUENCA



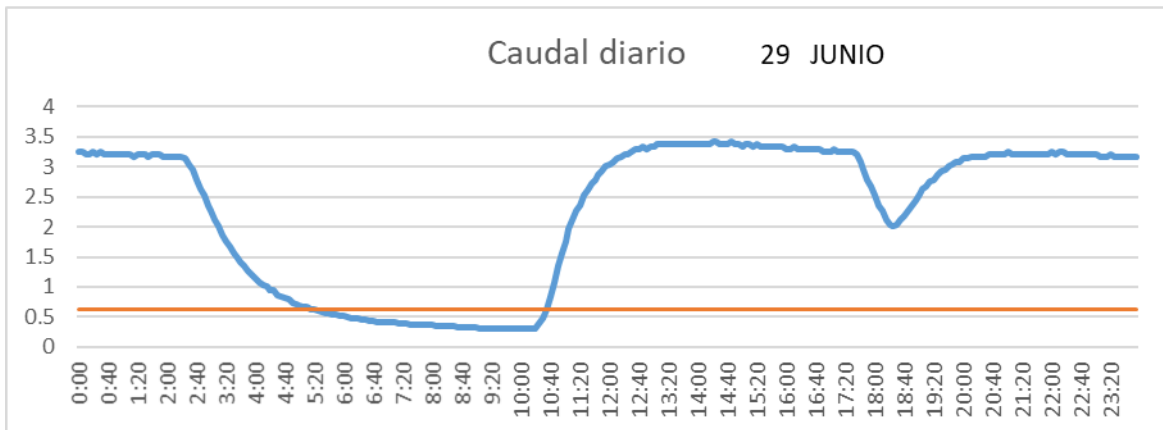
SAN LORENZO PARRILLA



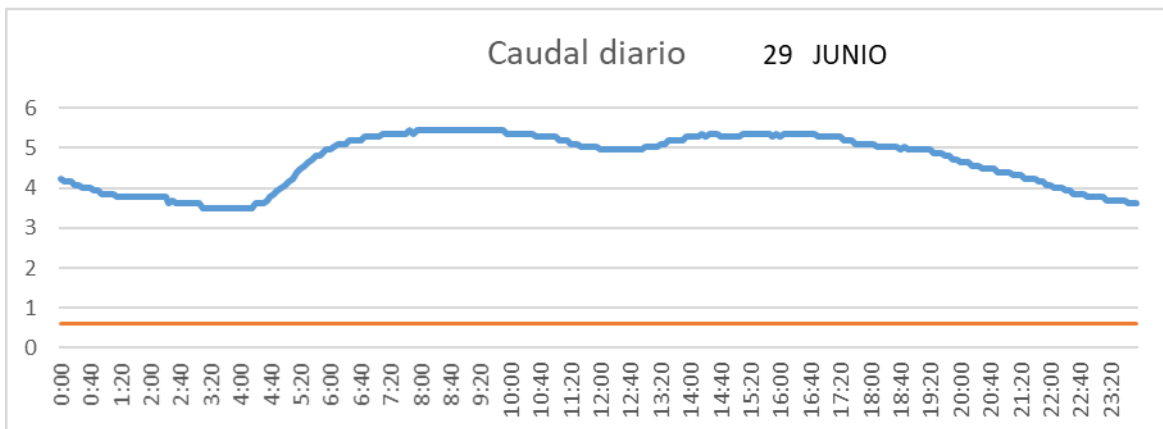
SALIDA TOBA



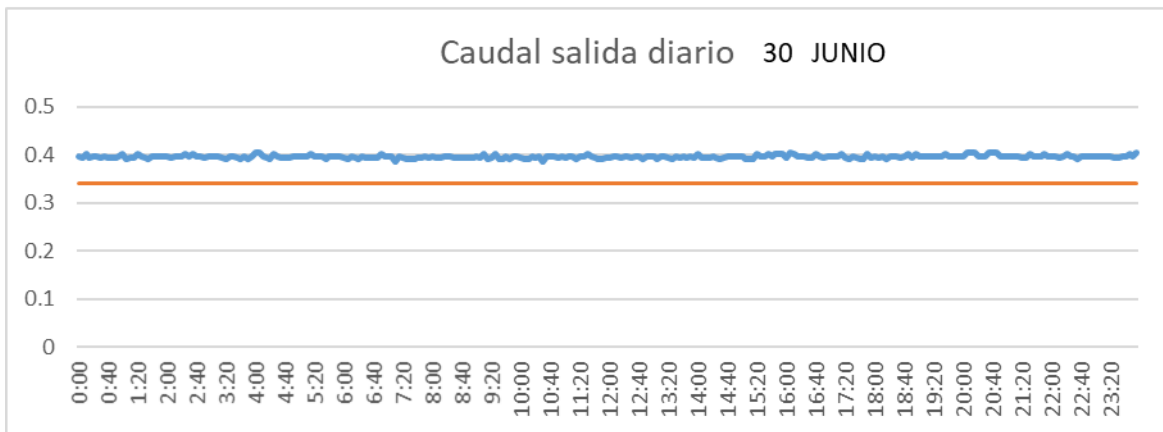
CUENCA



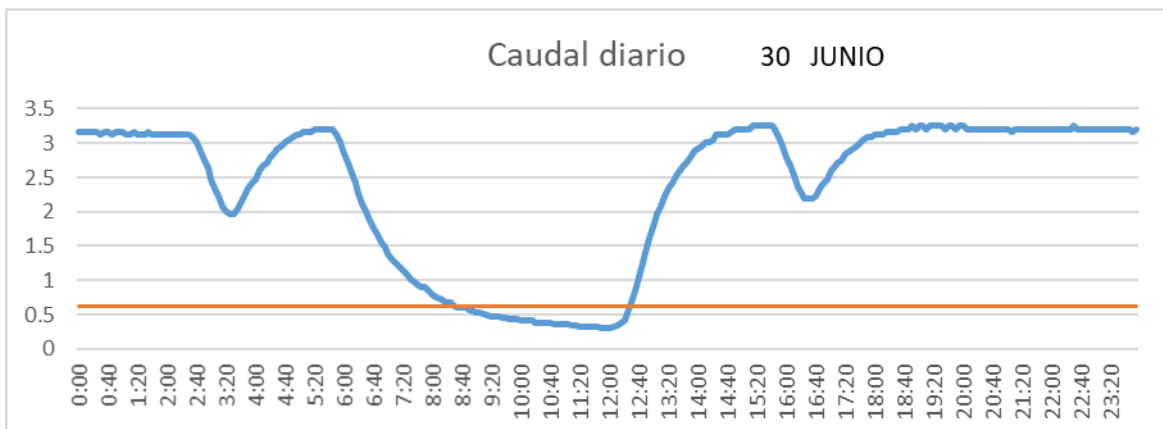
SAN LORENZO PARRILLA



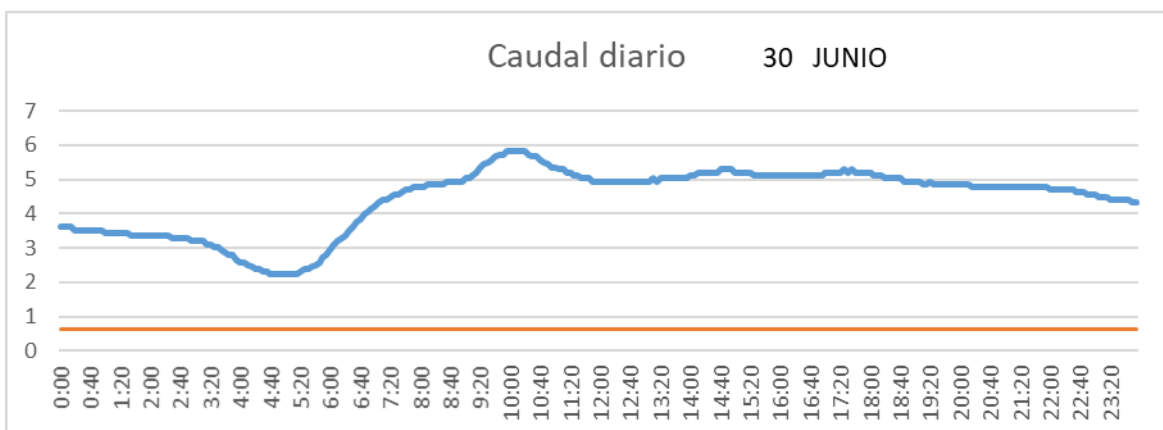
SALIDA TOBA



CUENCA

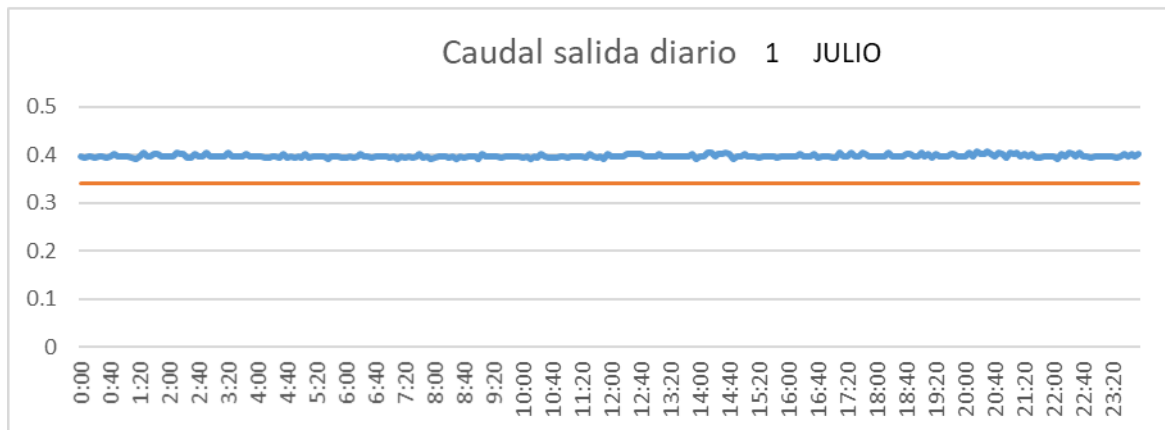


SAN LORENZO PARRILLA

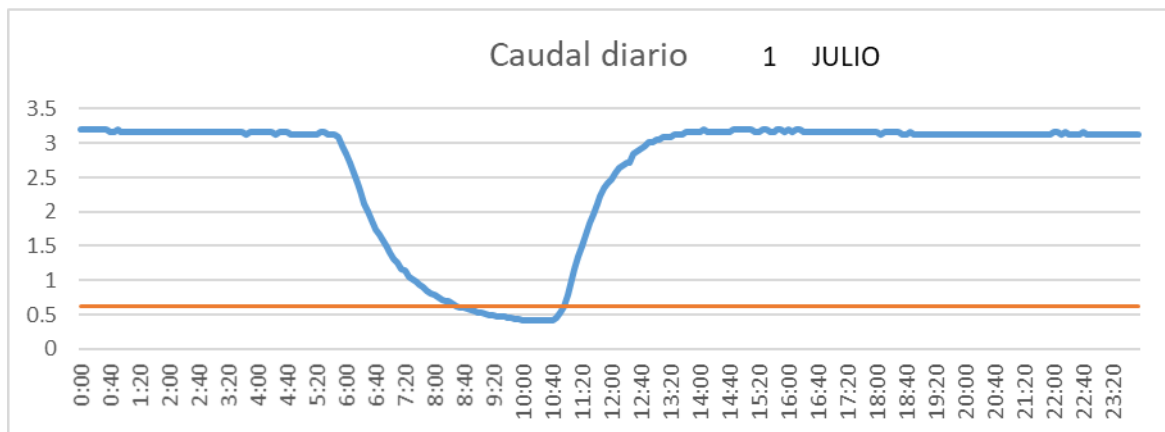


2.1.7 Julio

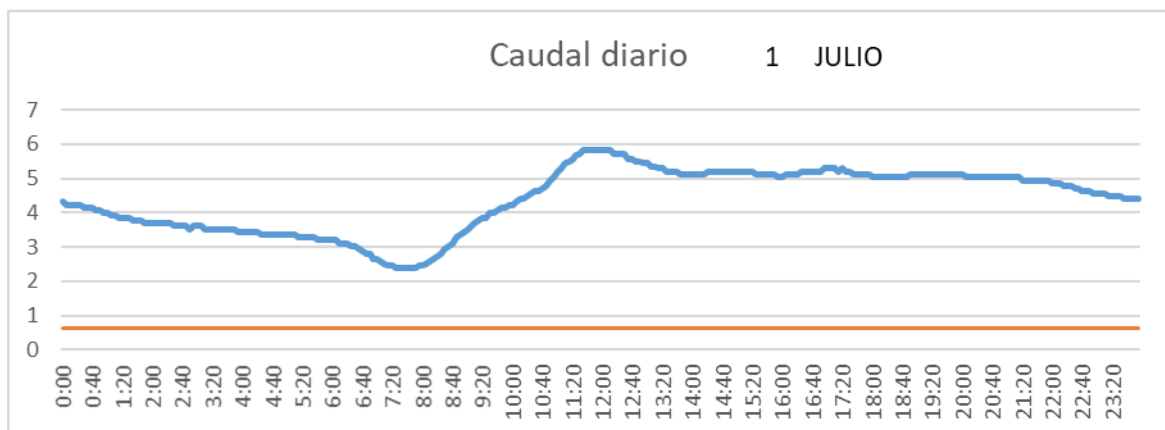
SALIDA TOBA



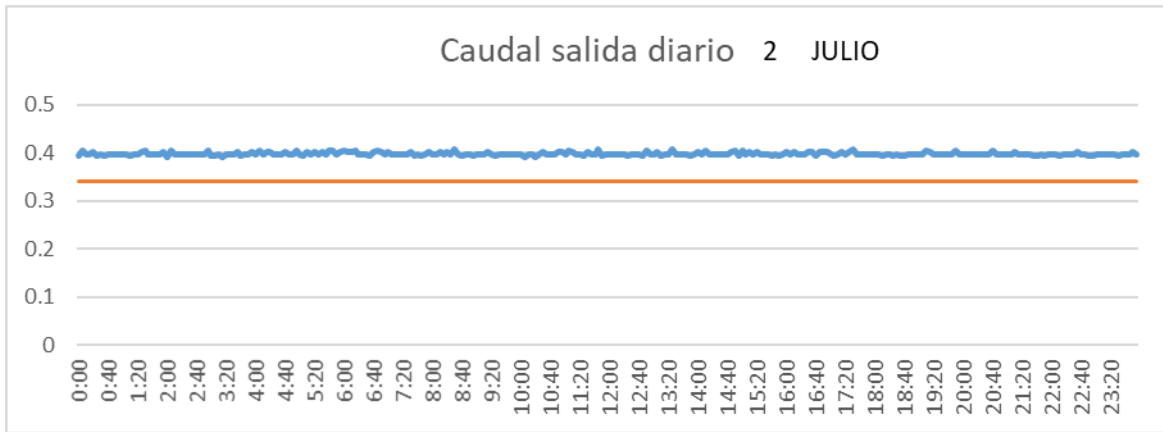
CUENCA



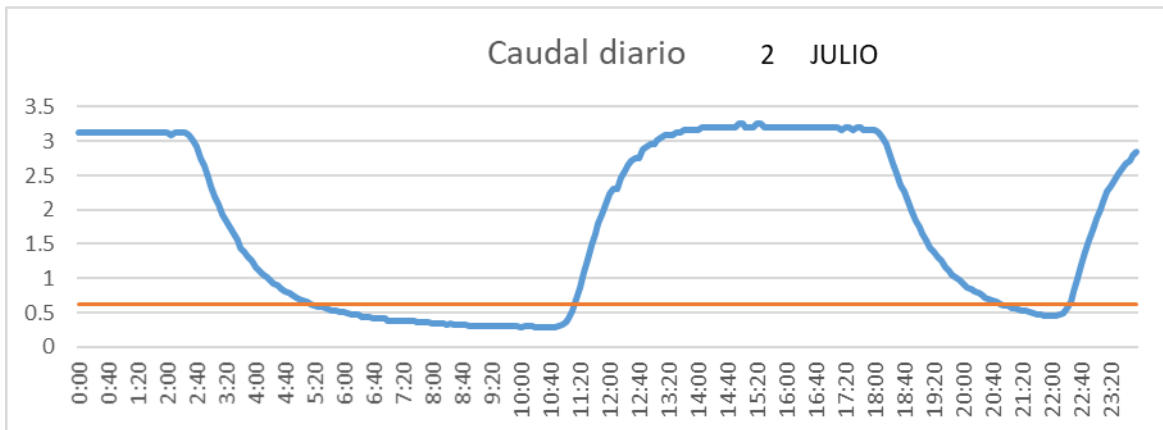
SAN LORENZO PARRILLA



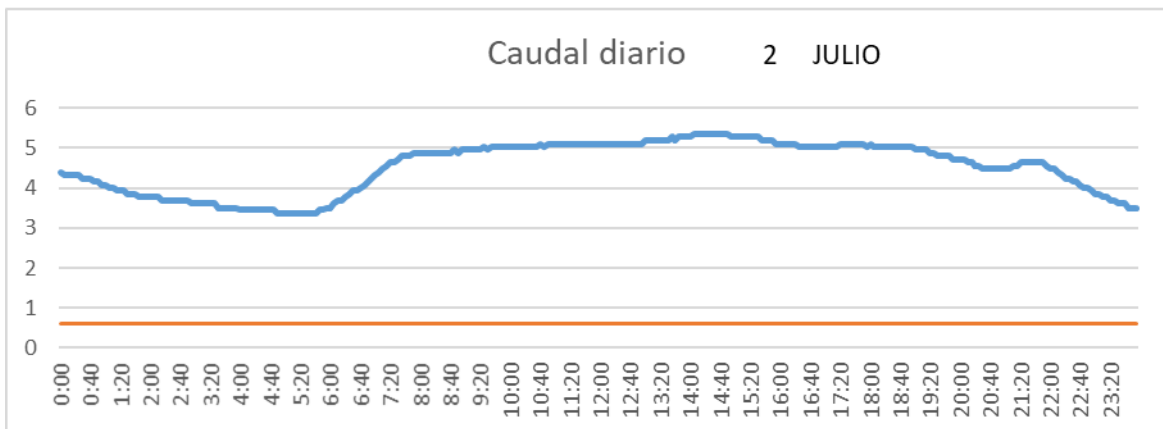
SALIDA TOBA



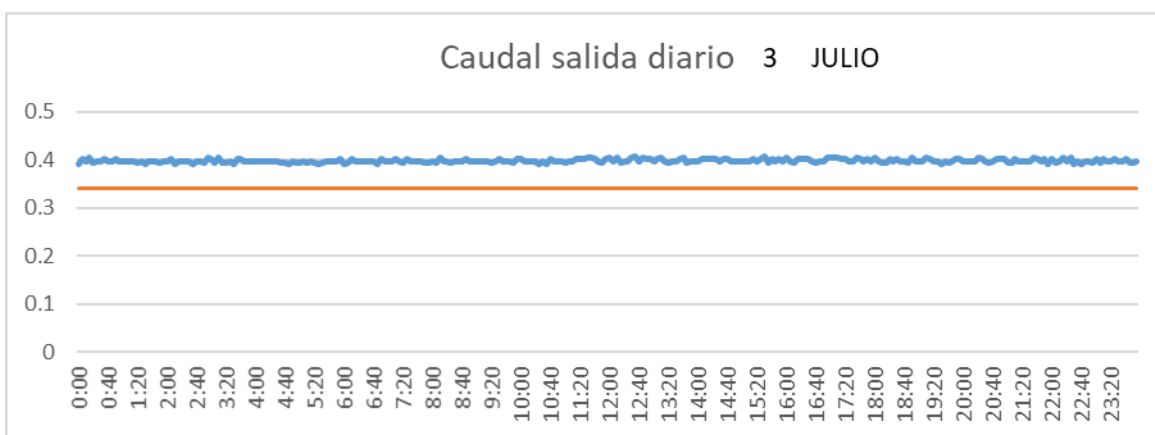
CUENCA



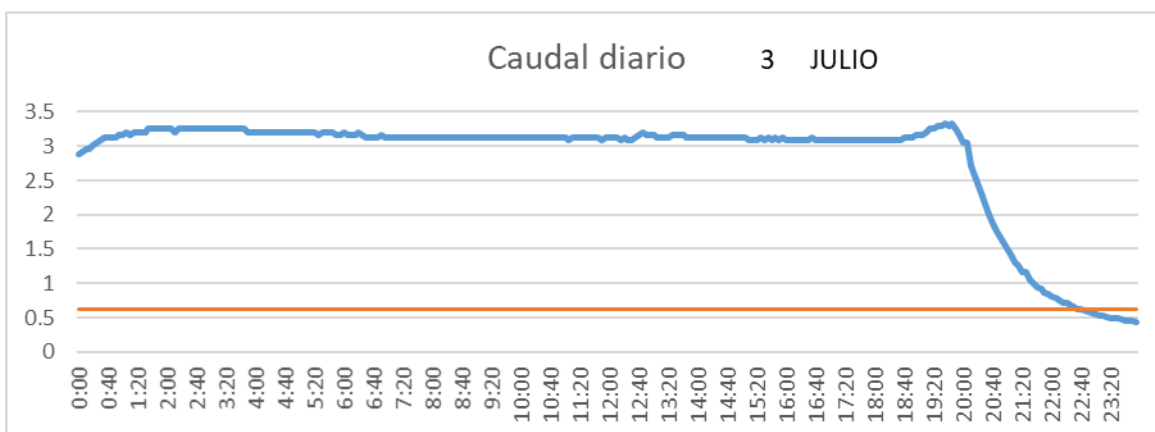
SAN LORENZO PARRILLA



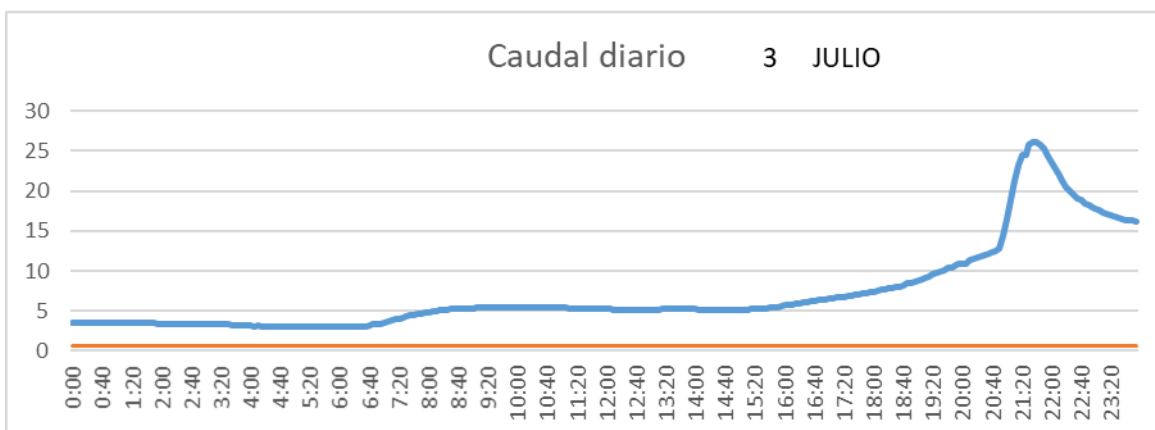
SALIDA TOBA



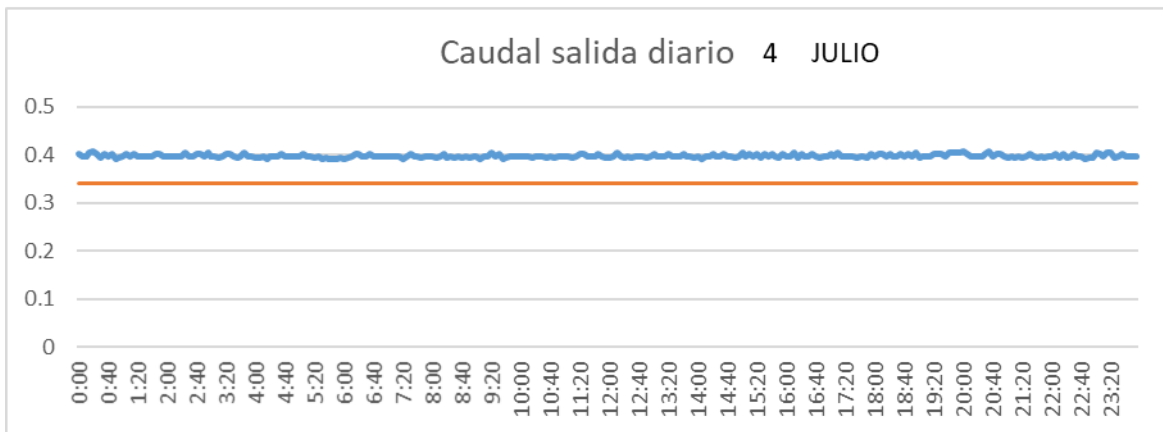
CUENCA



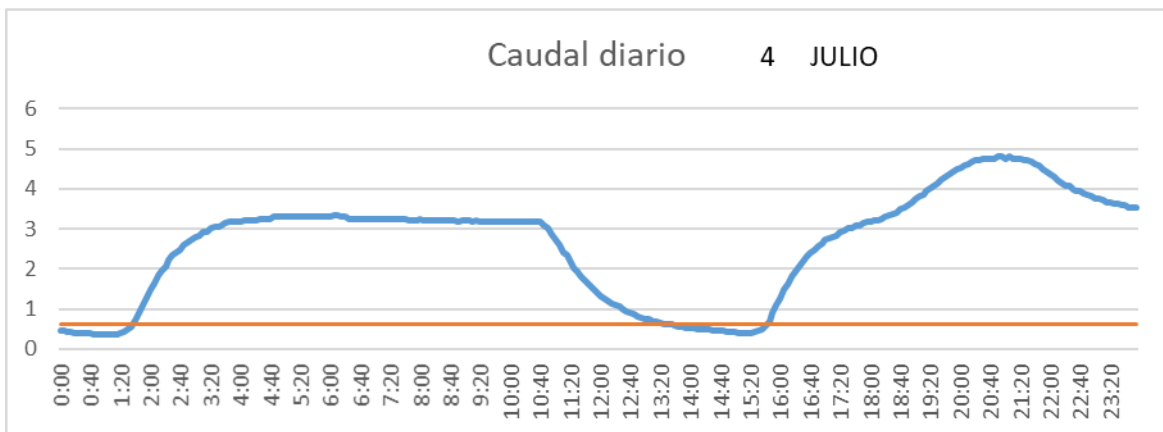
SAN LORENZO PARRILLA



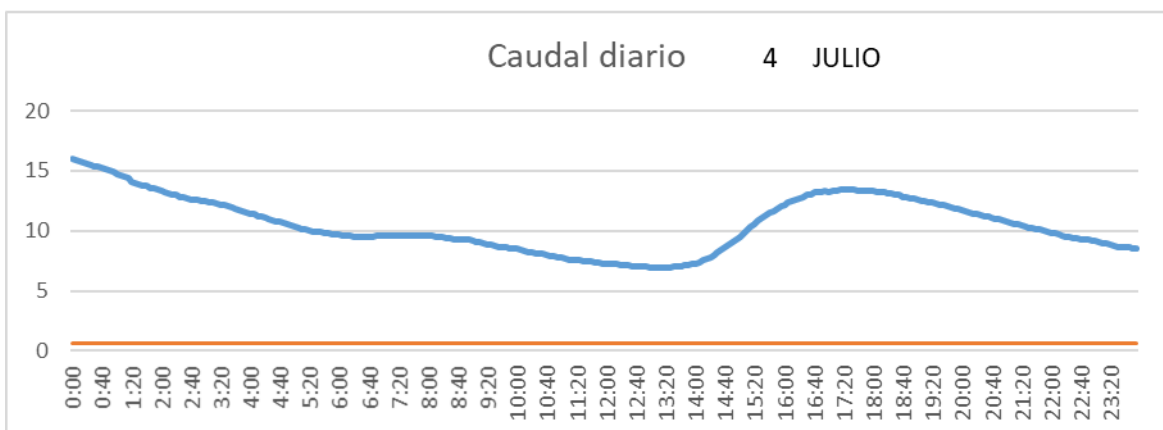
SALIDA TOBA



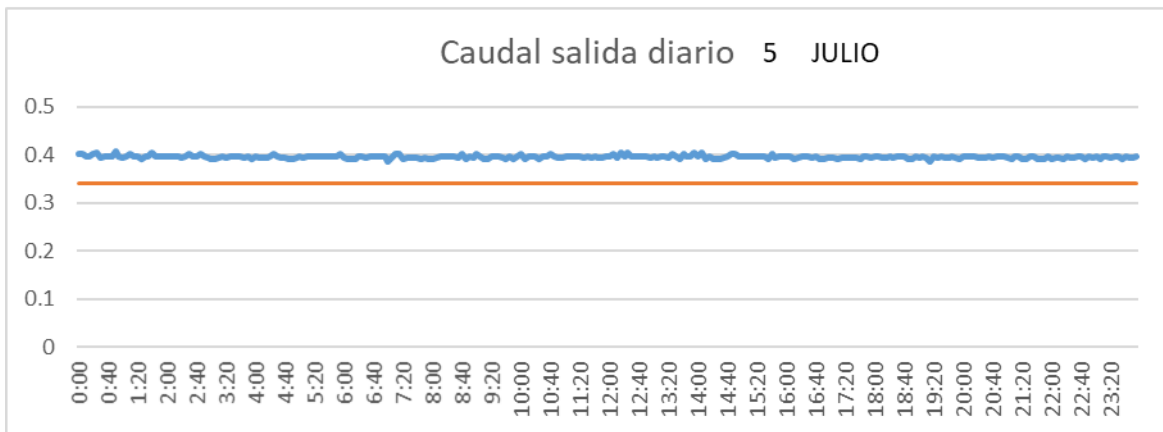
CUENCA



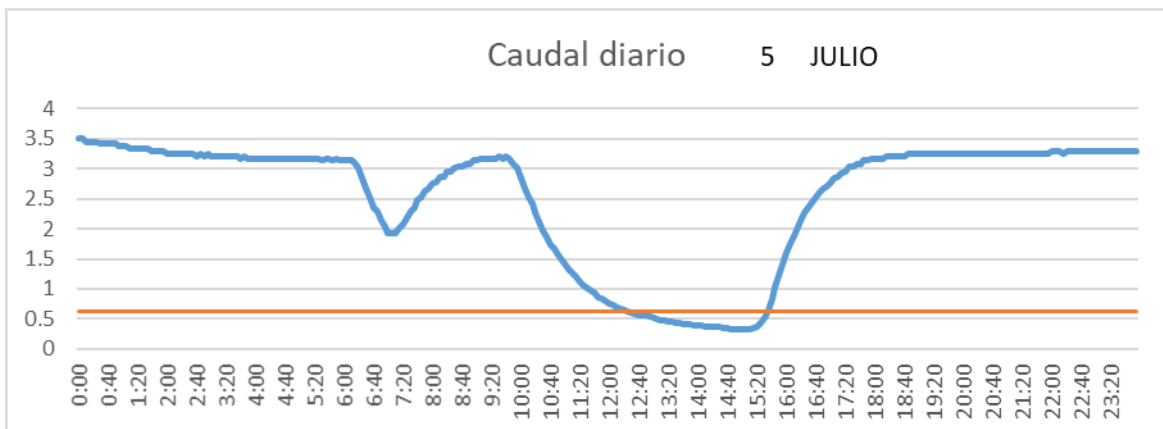
SAN LORENZO PARRILLA



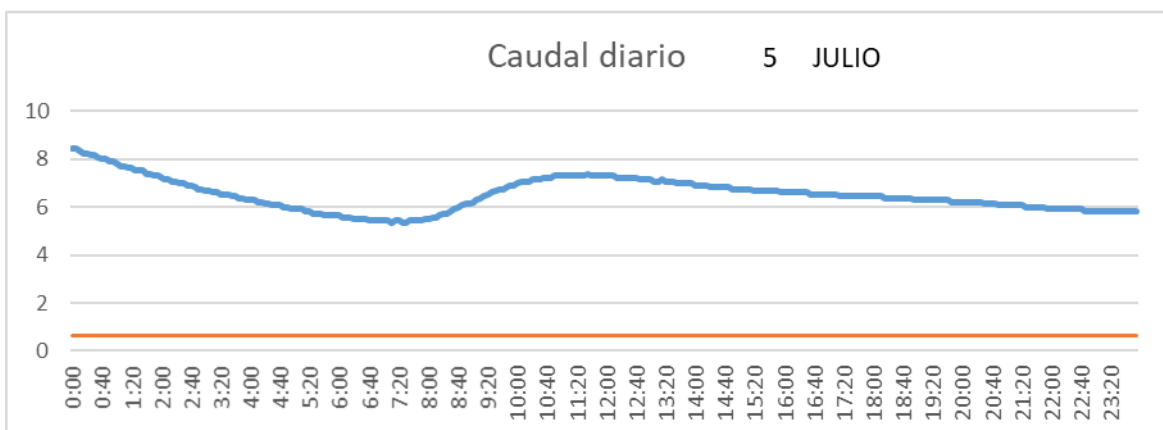
SALIDA TOBA



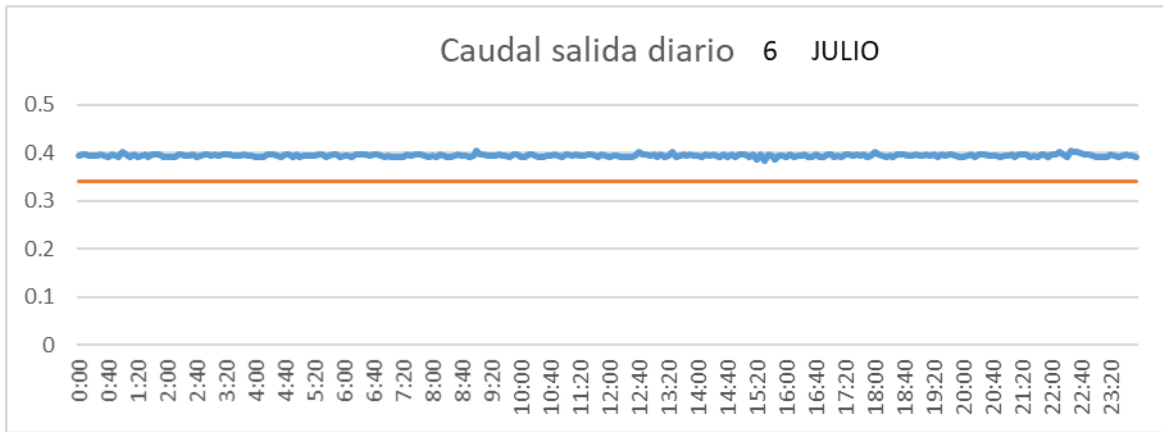
CUENCA



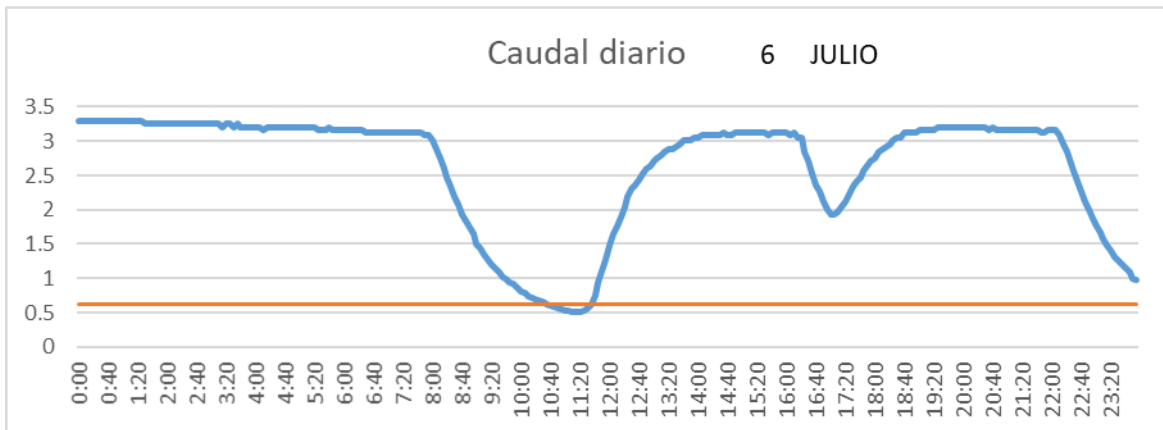
SAN LORENZO PARRILLA



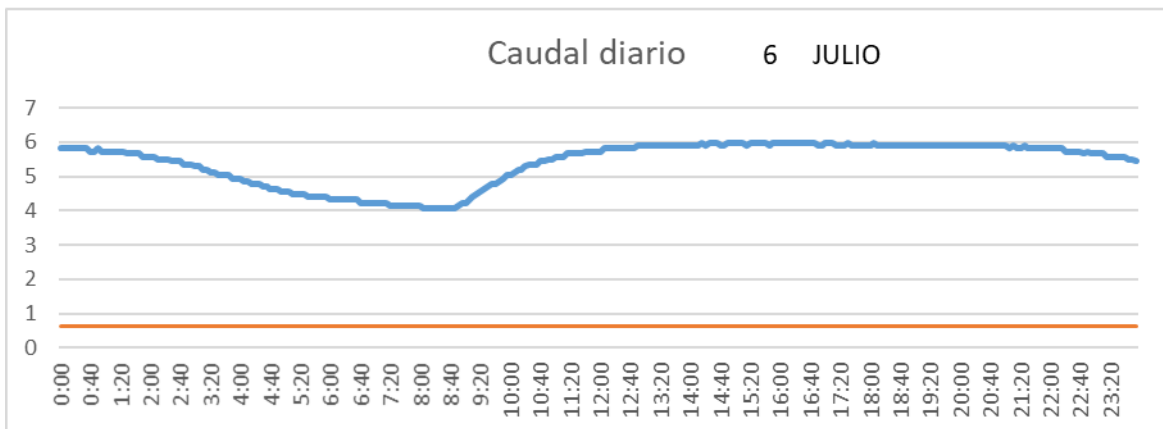
SALIDA TOBA



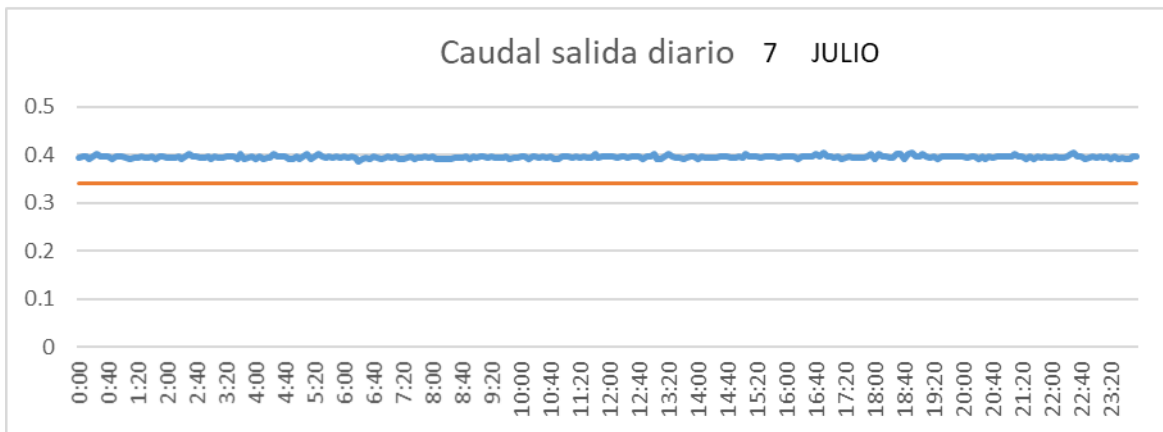
CUENCA



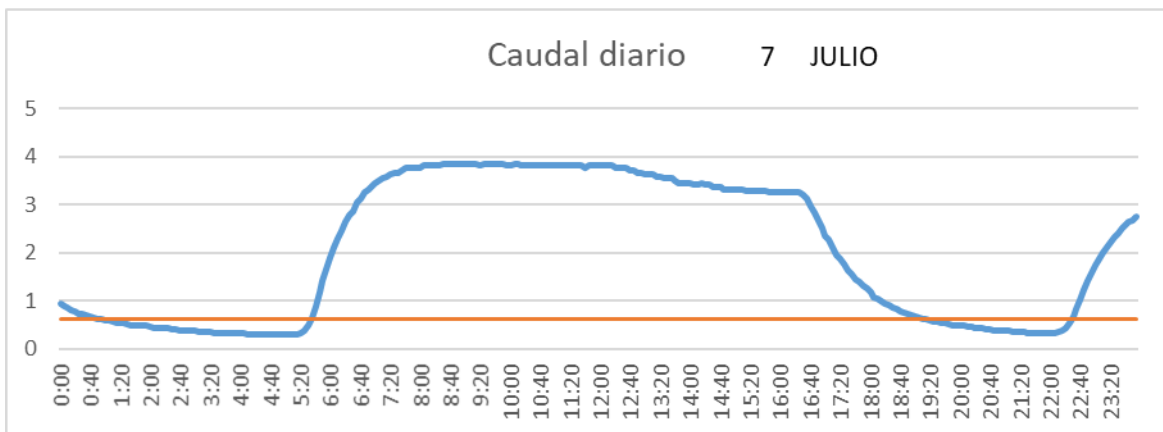
SAN LORENZO PARRILLA



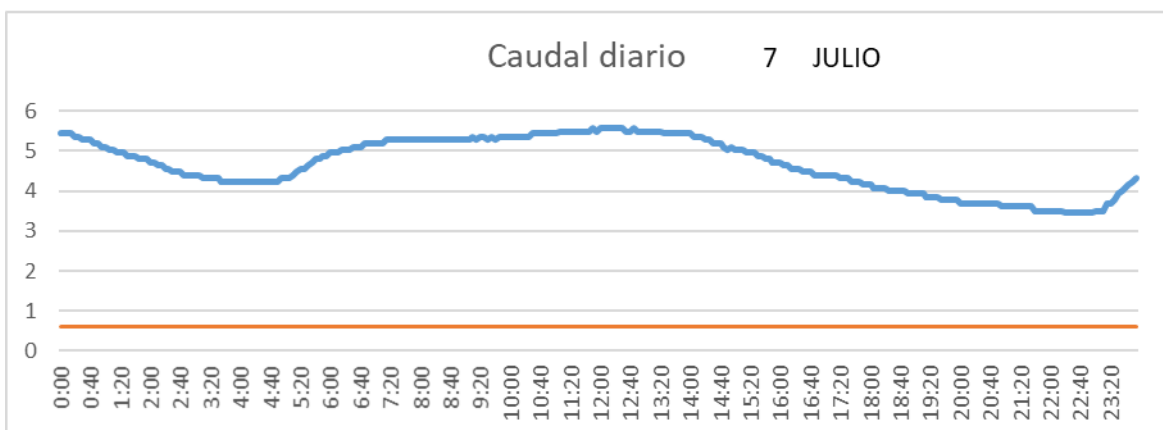
SALIDA TOBA



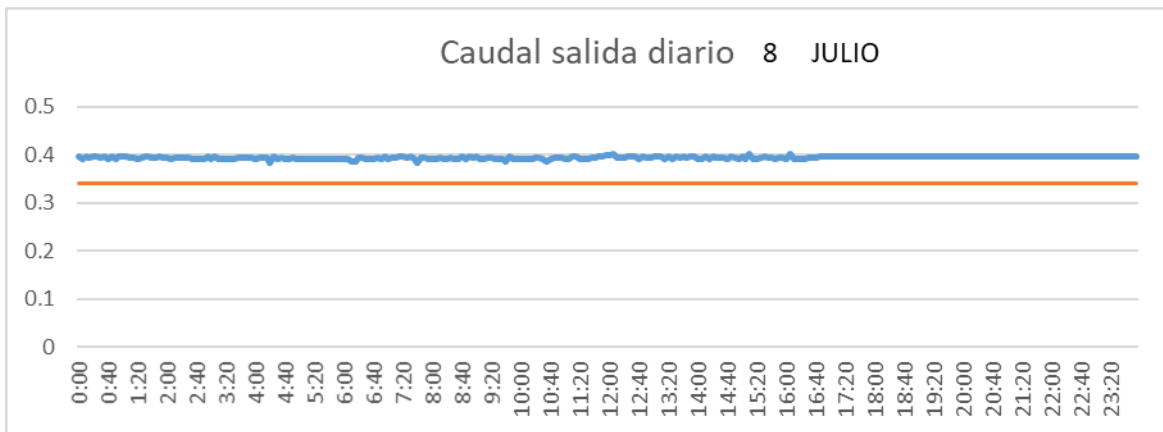
CUENCA



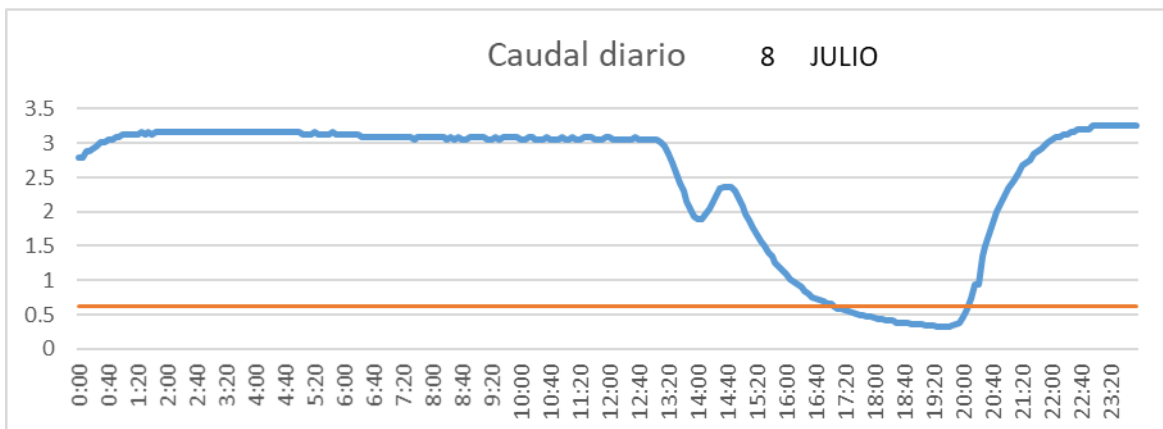
SAN LORENZO PARRILLA



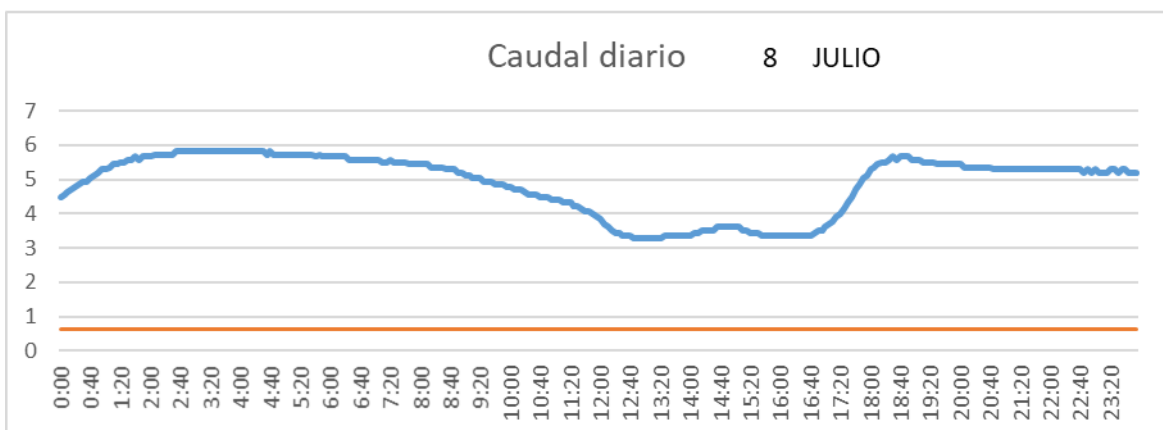
SALIDA TOBA



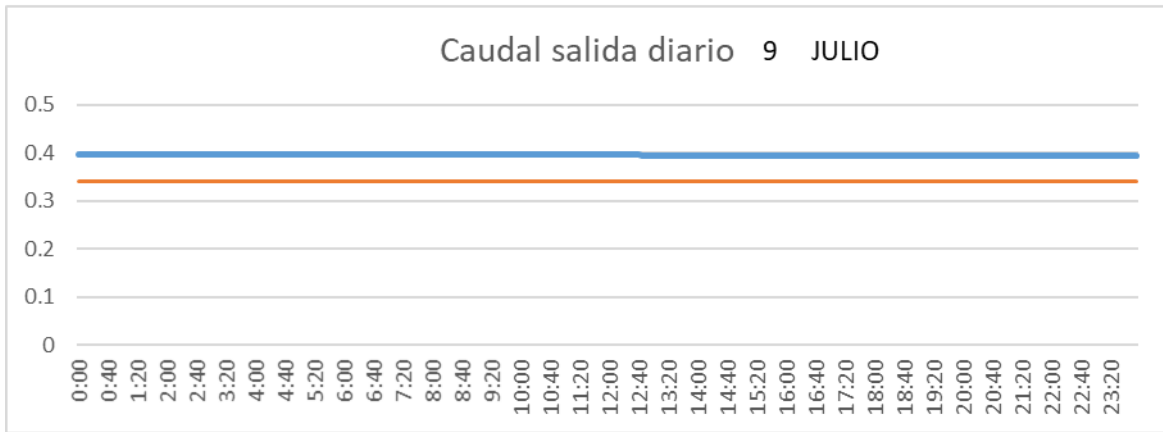
CUENCA



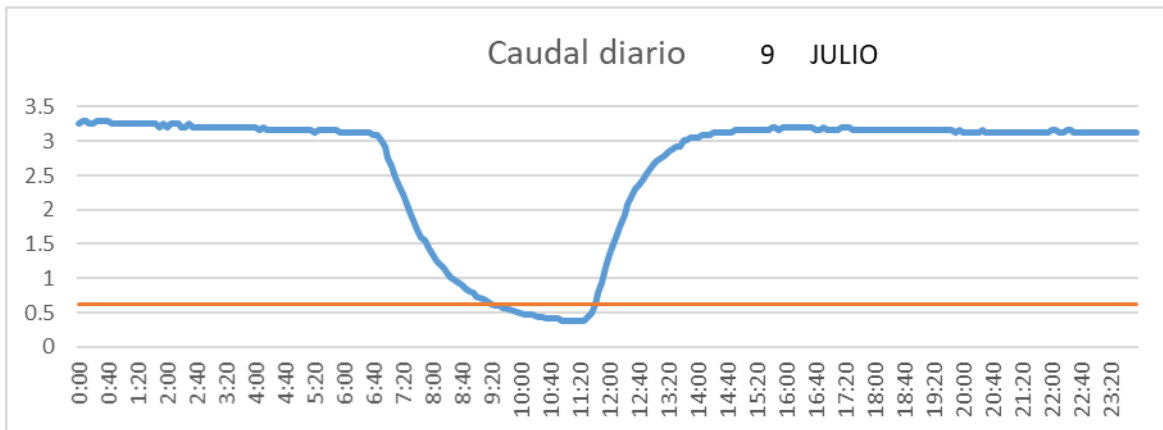
SAN LORENZO PARRILLA



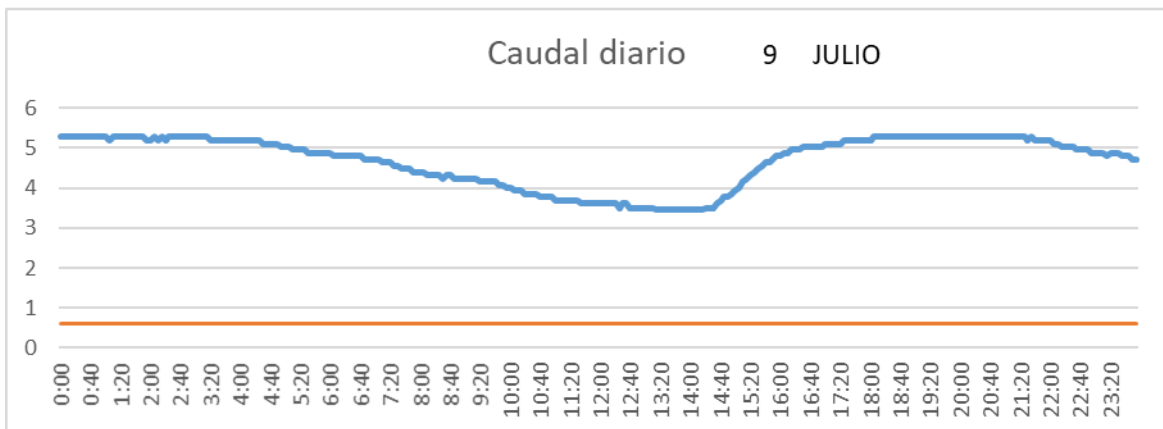
SALIDA TOBA



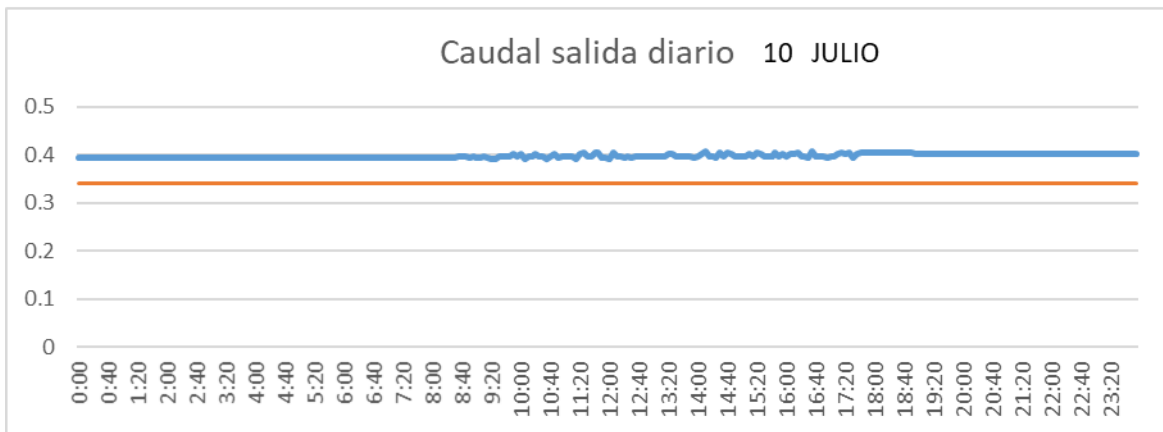
CUENCA



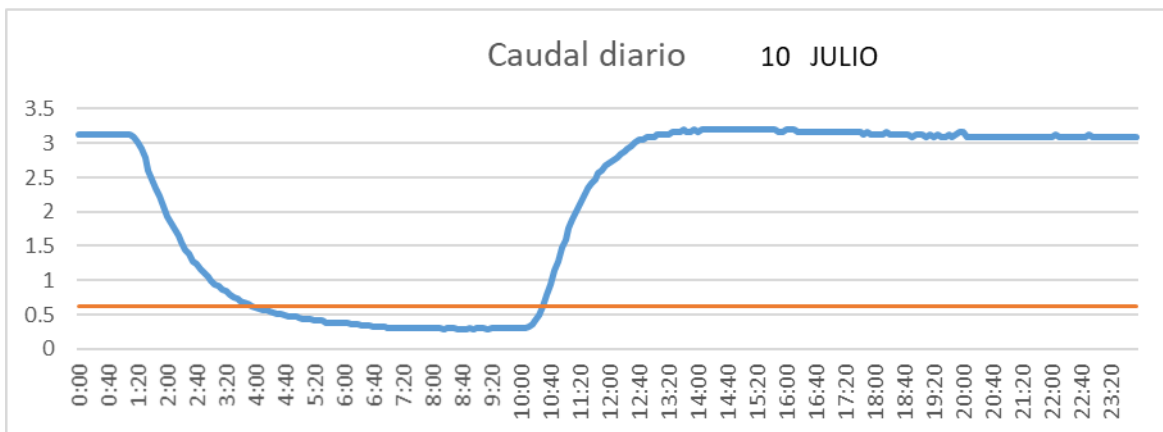
SAN LORENZO PARRILLA



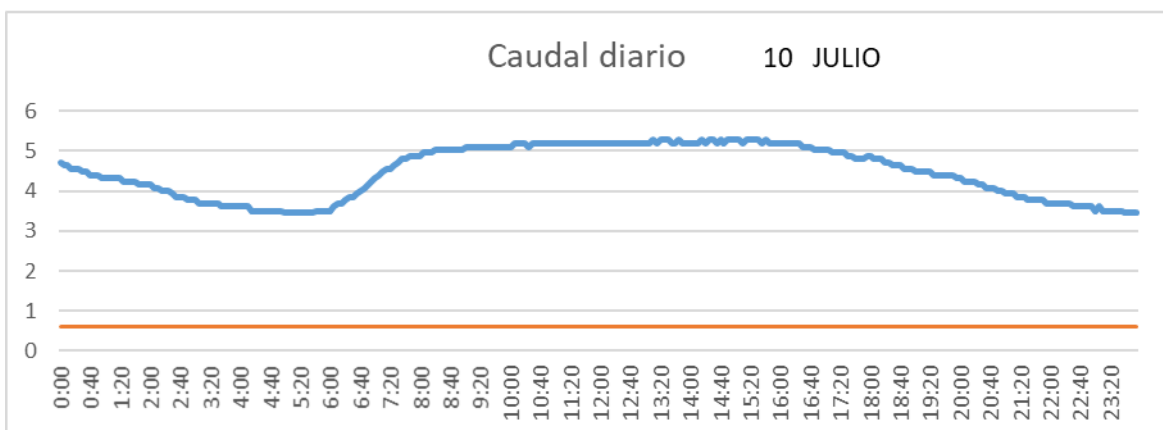
SALIDA TOBA



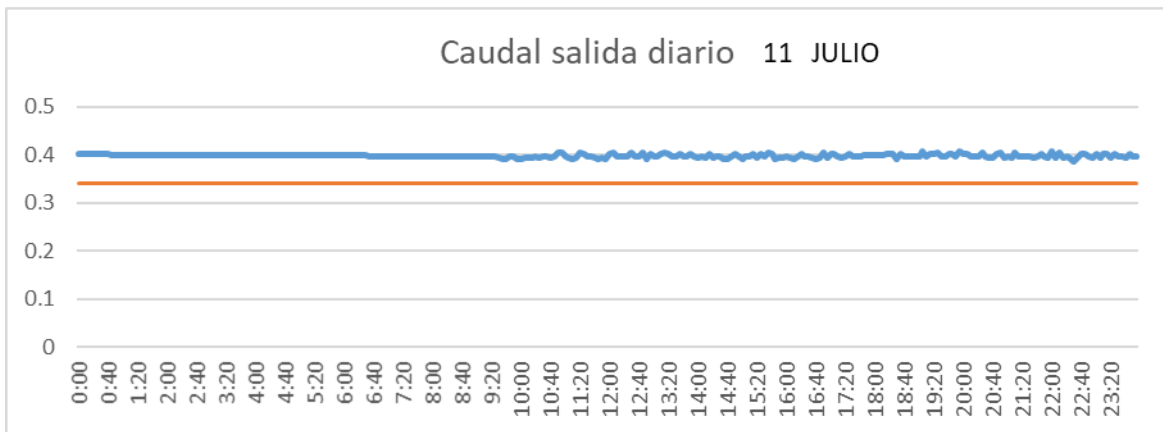
CUENCA



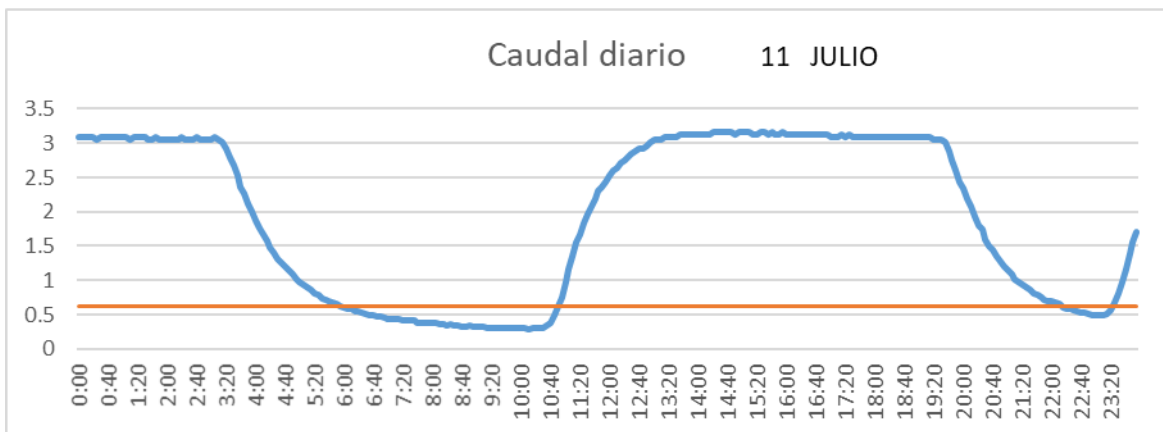
SAN LORENZO PARRILLA



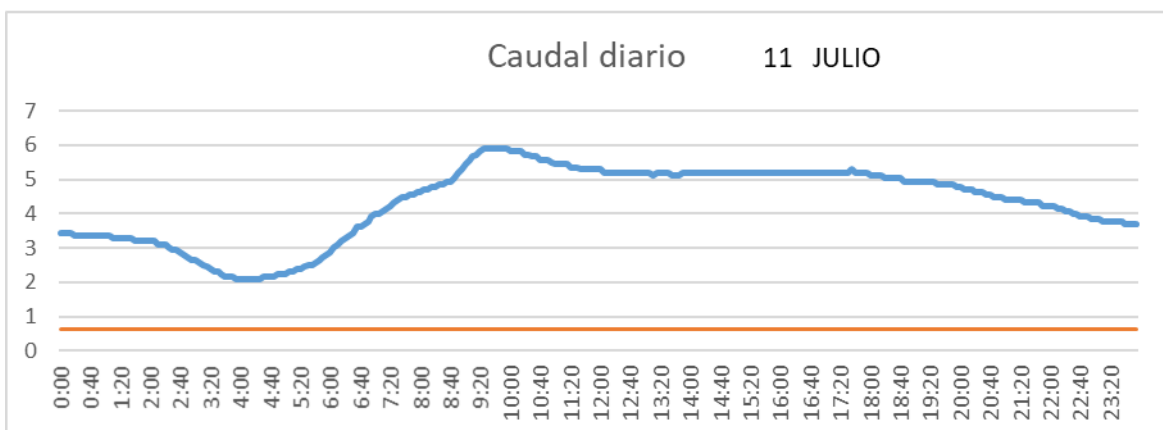
SALIDA TOBA



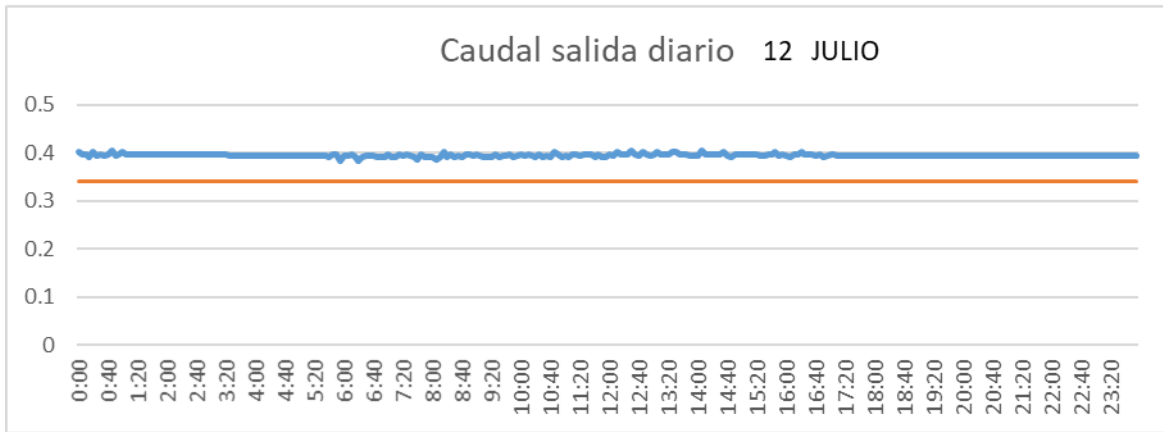
CUENCA



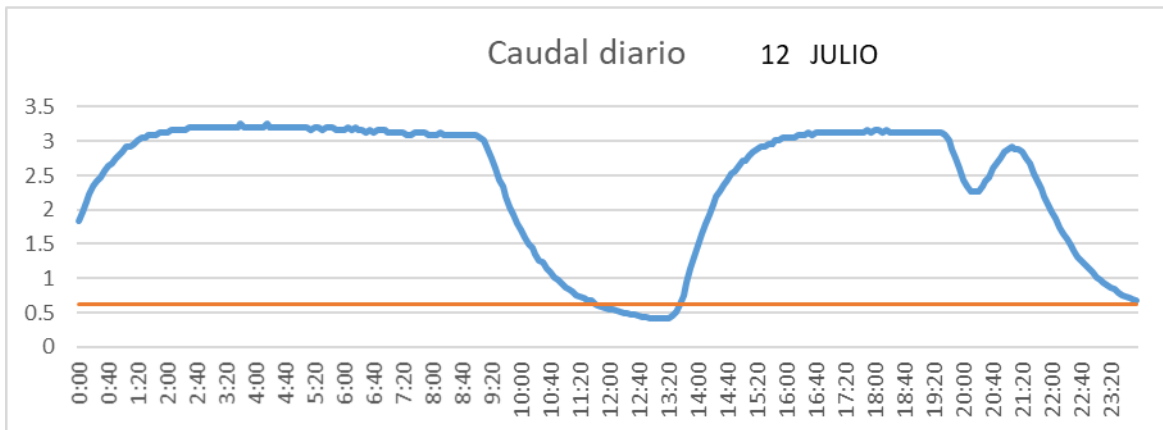
SAN LORENZO PARRILLA



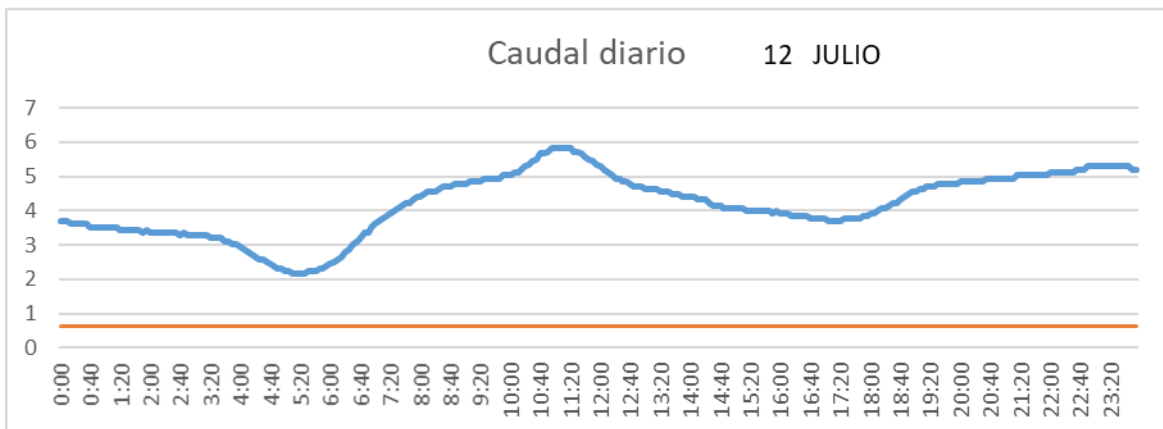
SALIDA TOBA



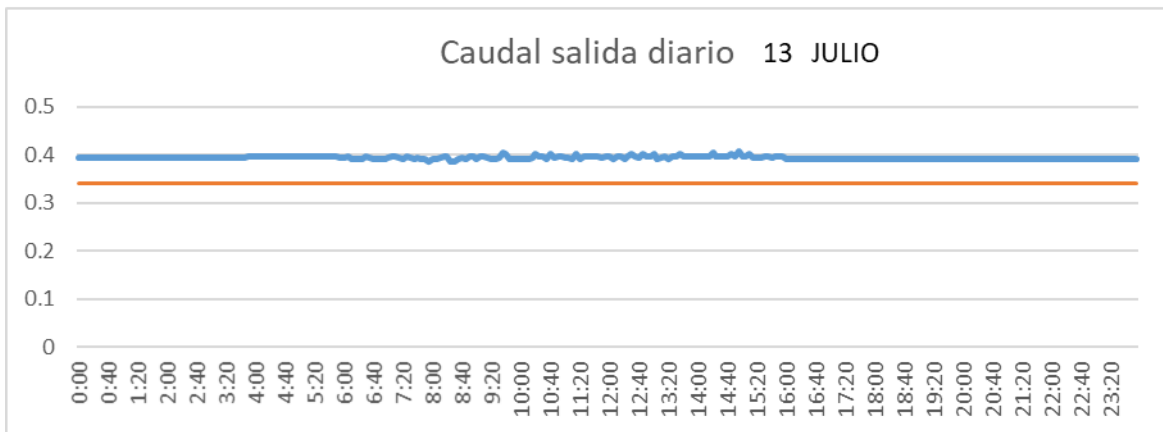
CUENCA



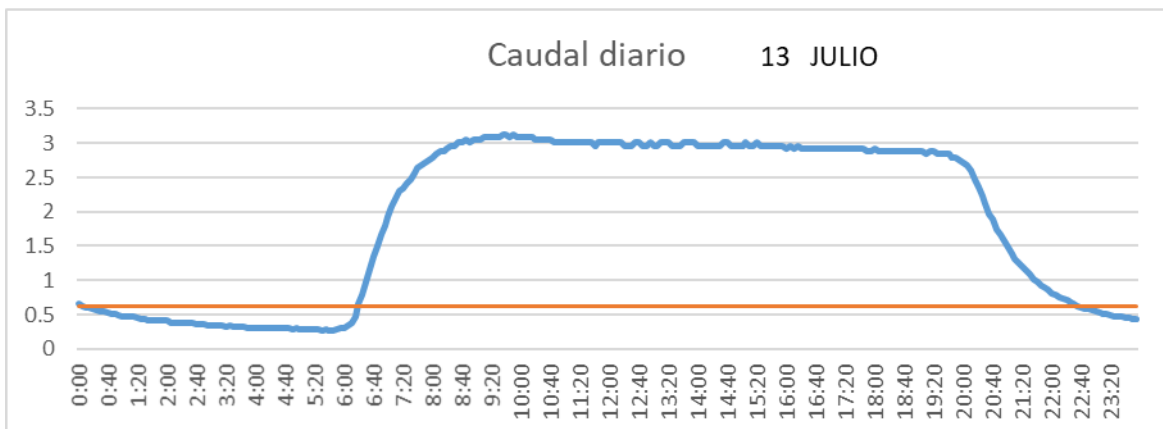
SAN LORENZO PARRILLA



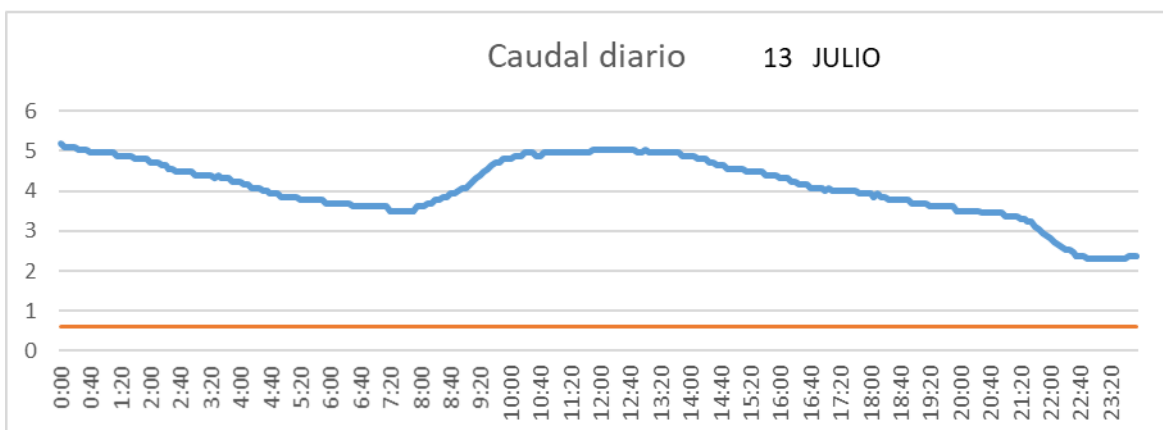
SALIDA TOBA



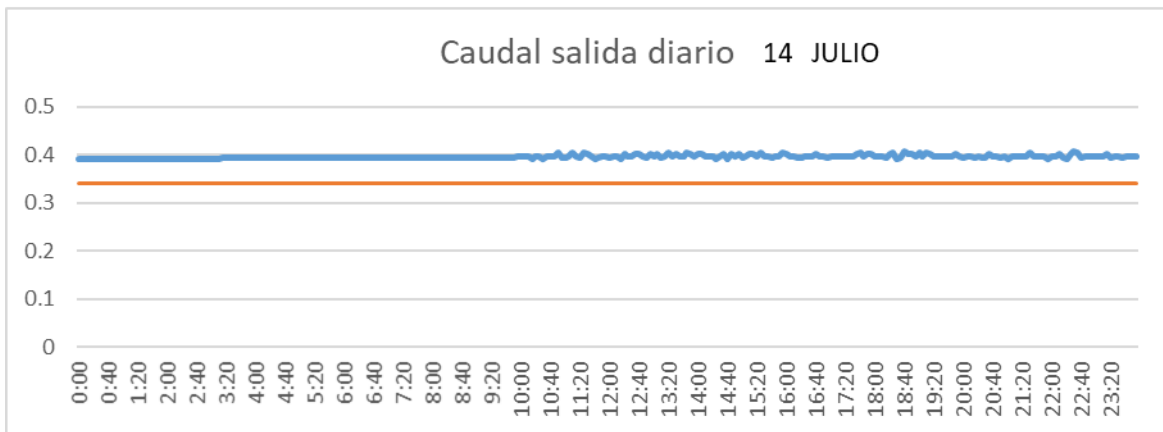
CUENCA



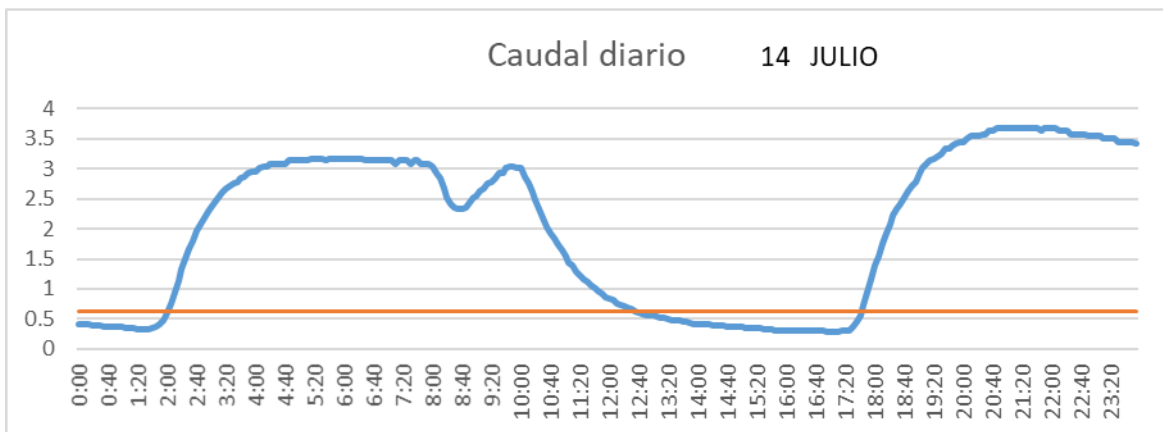
SAN LORENZO PARRILLA



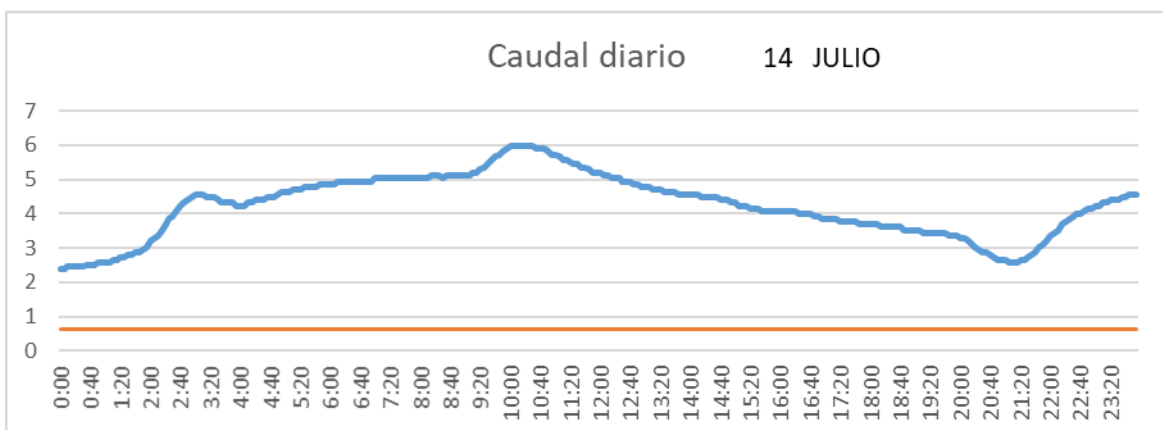
SALIDA TOBA



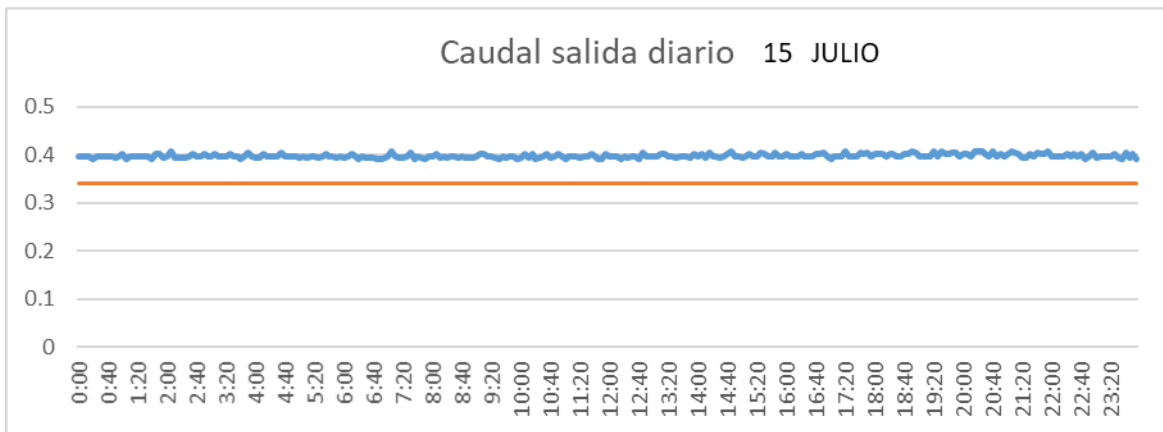
CUENCA



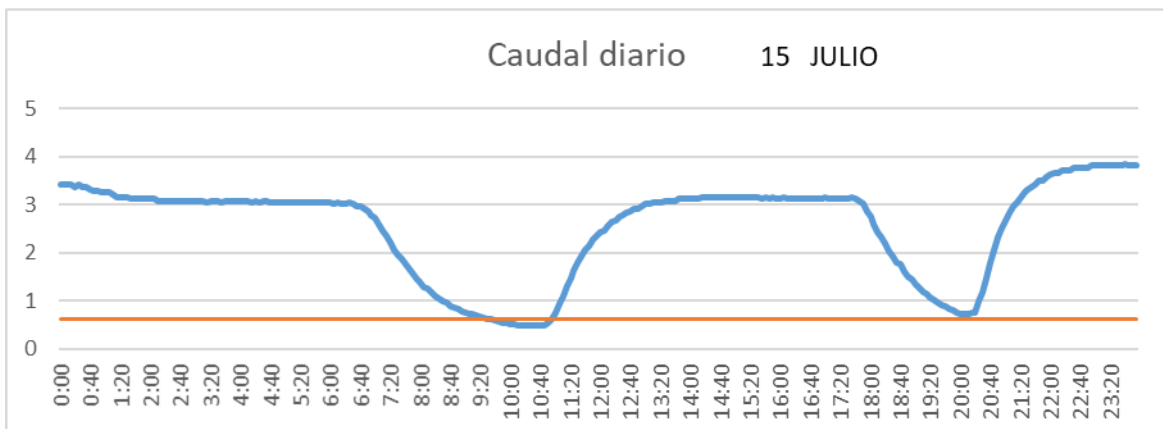
SAN LORENZO PARRILLA



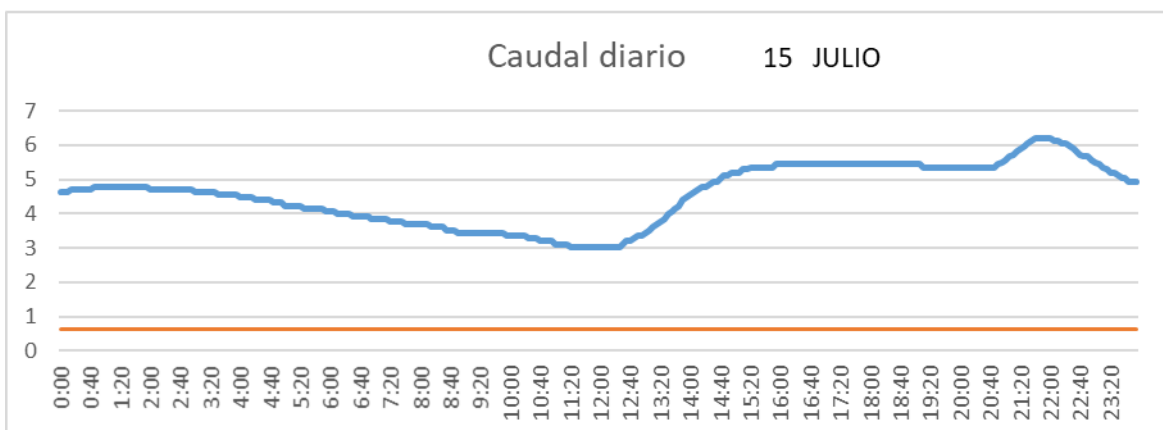
SALIDA TOBA



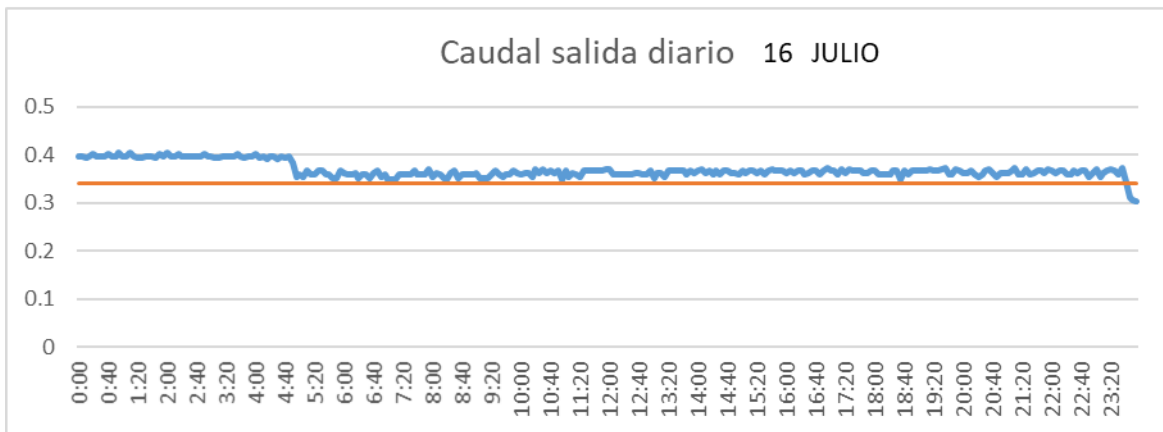
CUENCA



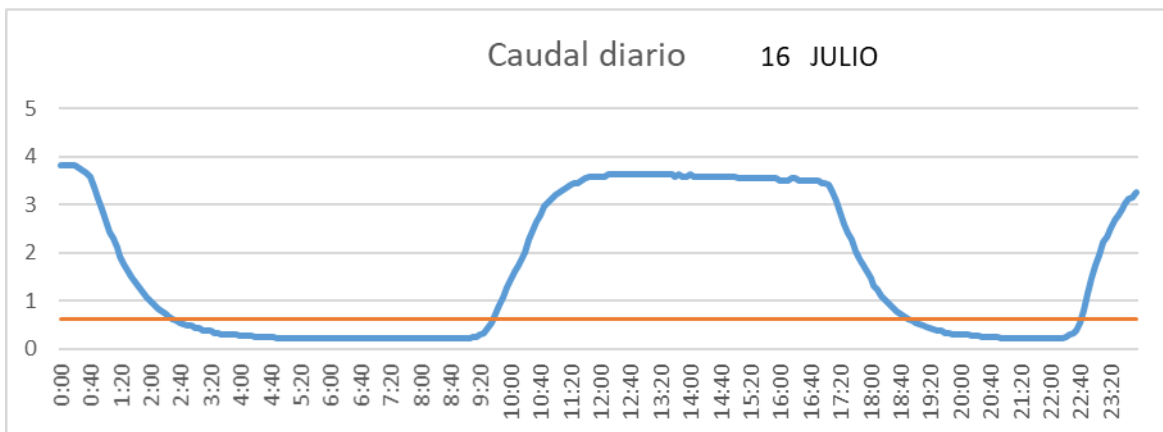
SAN LORENZO PARRILLA



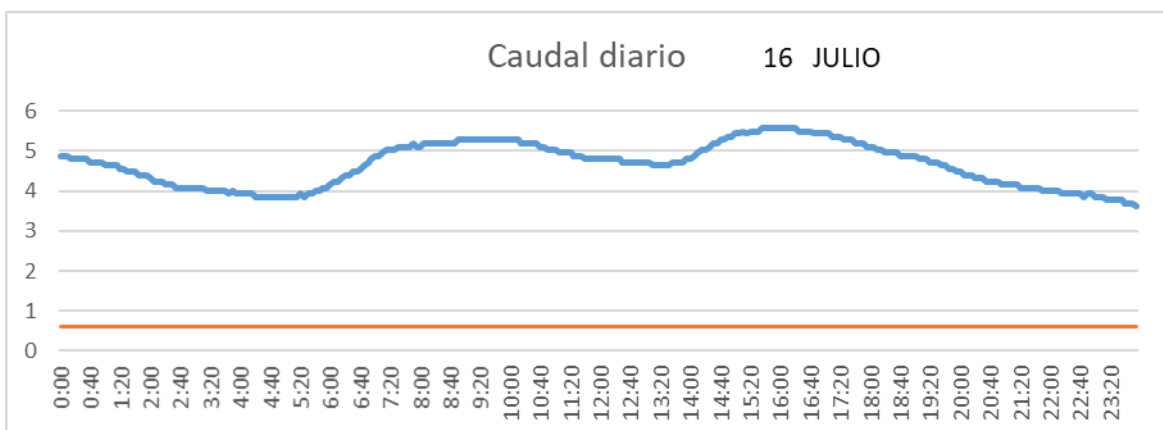
SALIDA TOBA



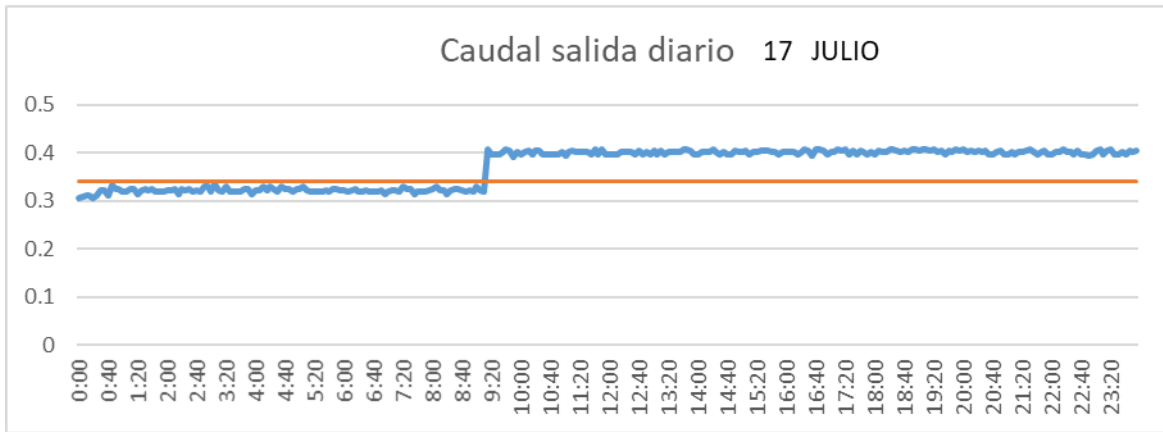
CUENCA



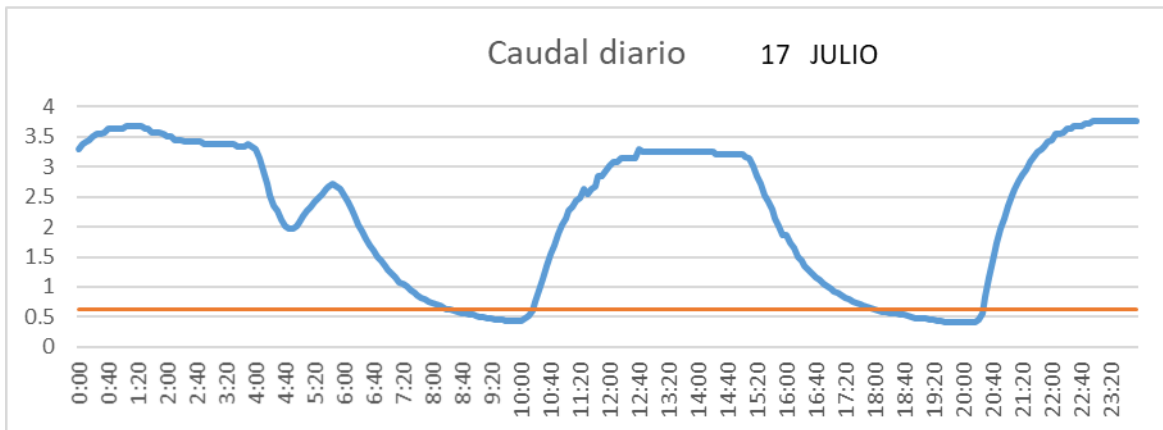
SAN LORENZO PARRILLA



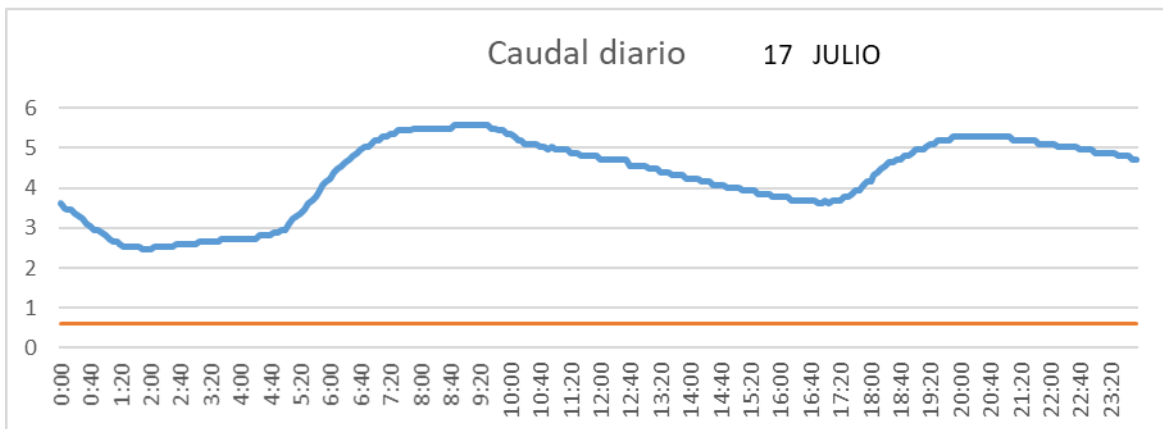
SALIDA TOBA



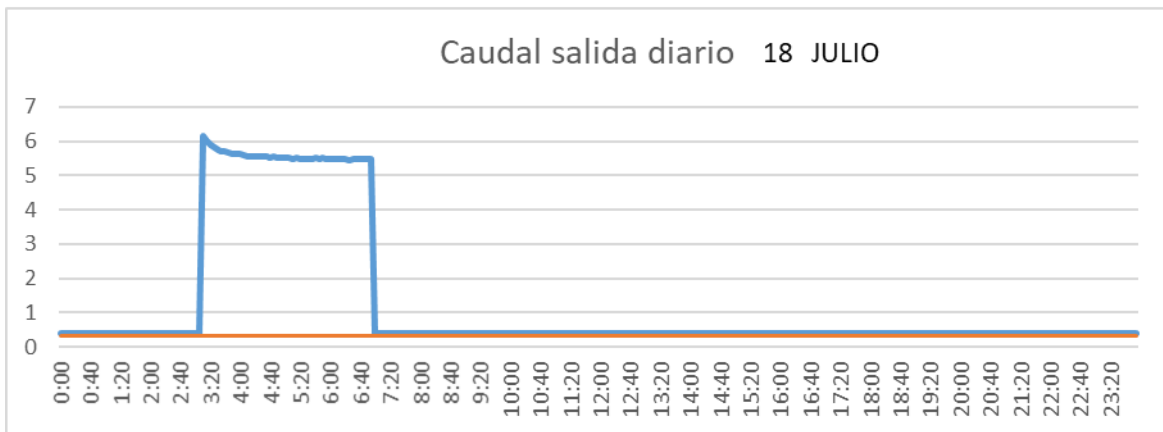
CUENCA



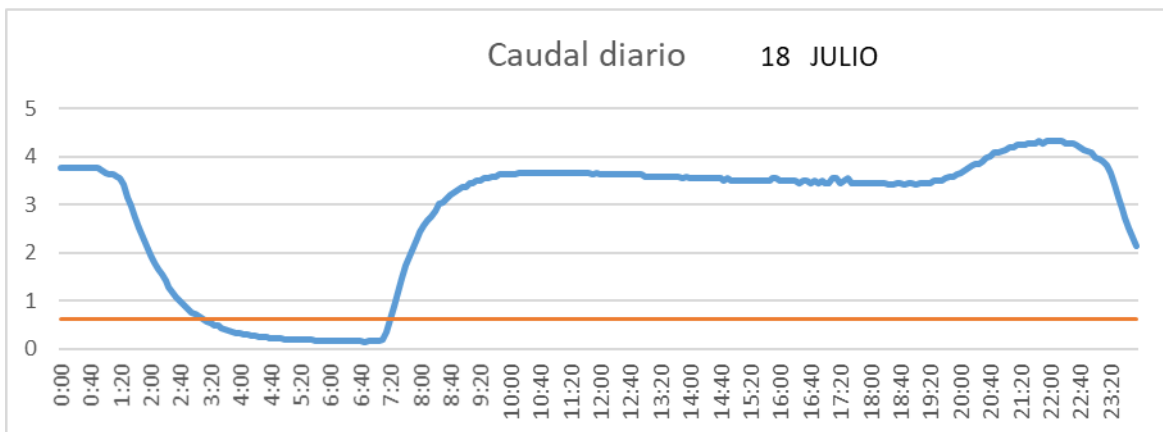
SAN LORENZO PARRILLA



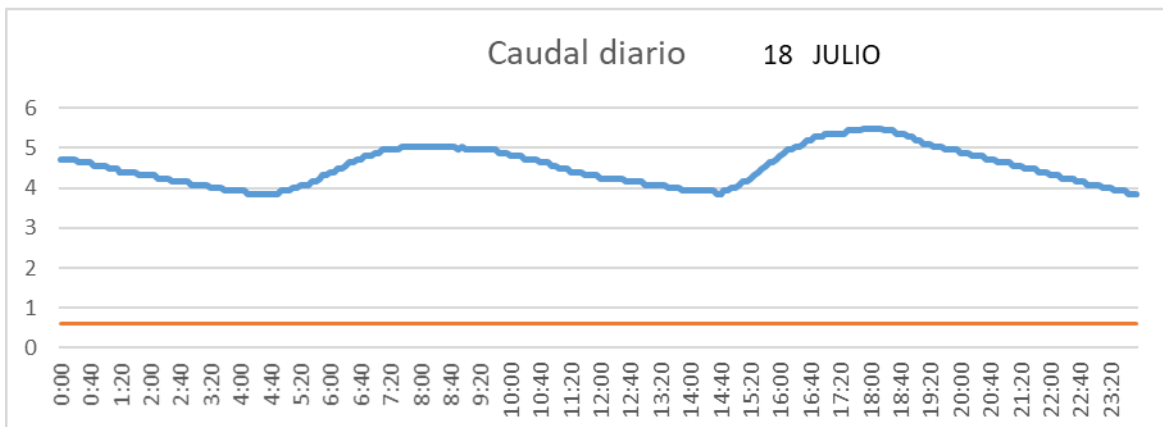
SALIDA TOBA



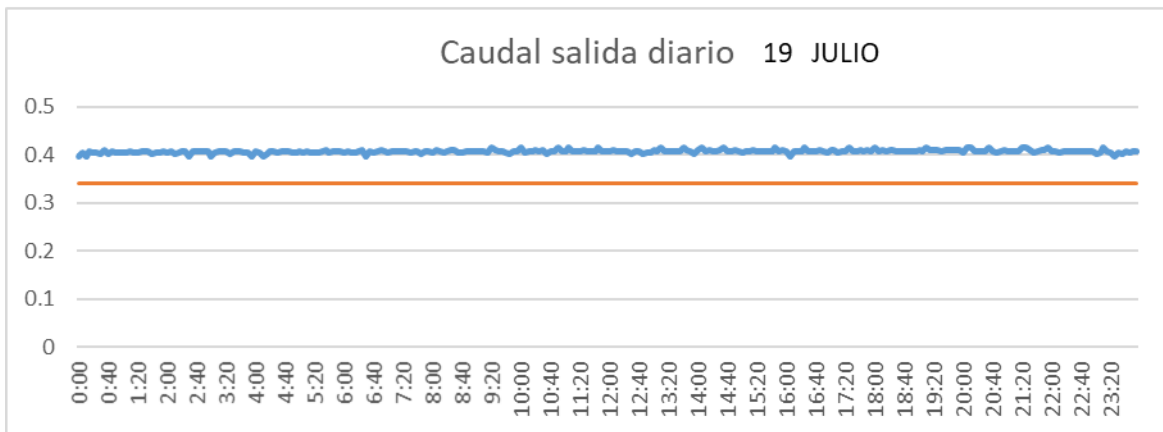
CUENCA



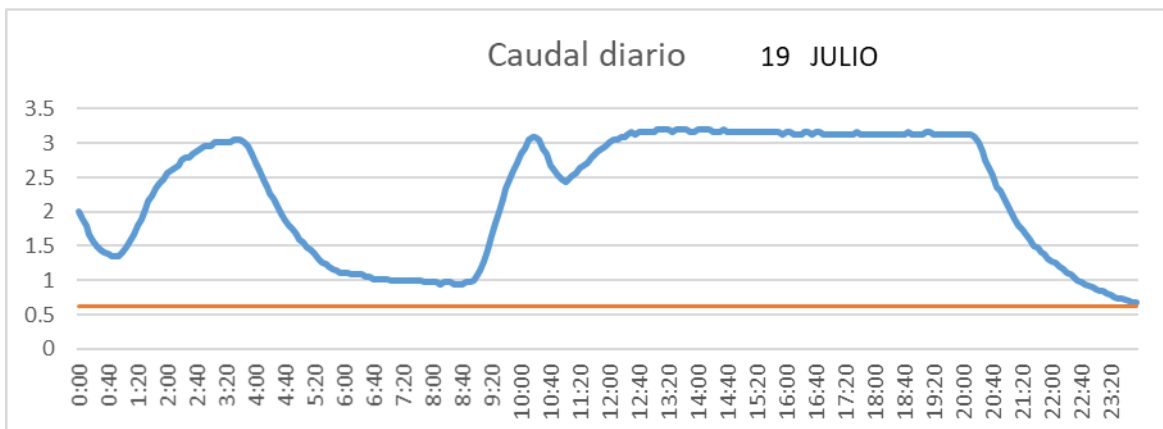
SAN LORENZO PARRILLA



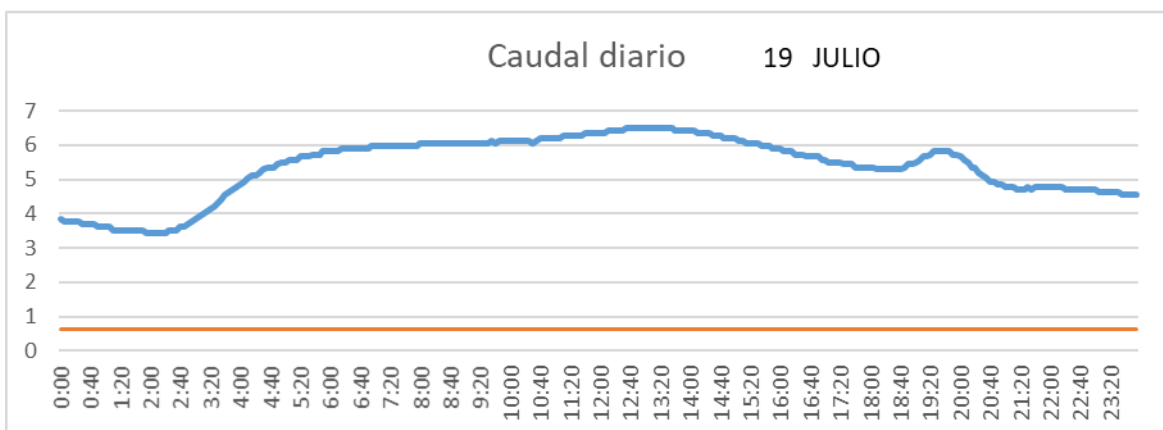
SALIDA TOBA



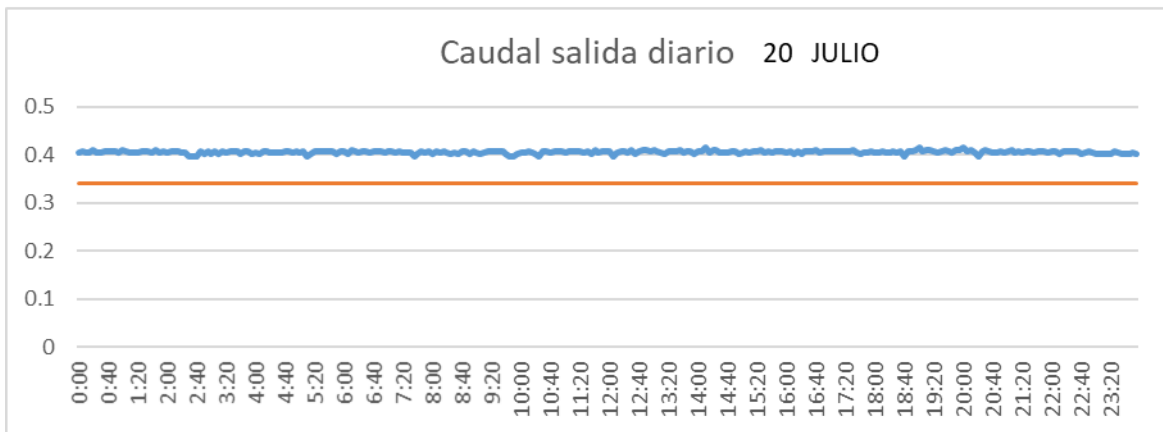
CUENCA



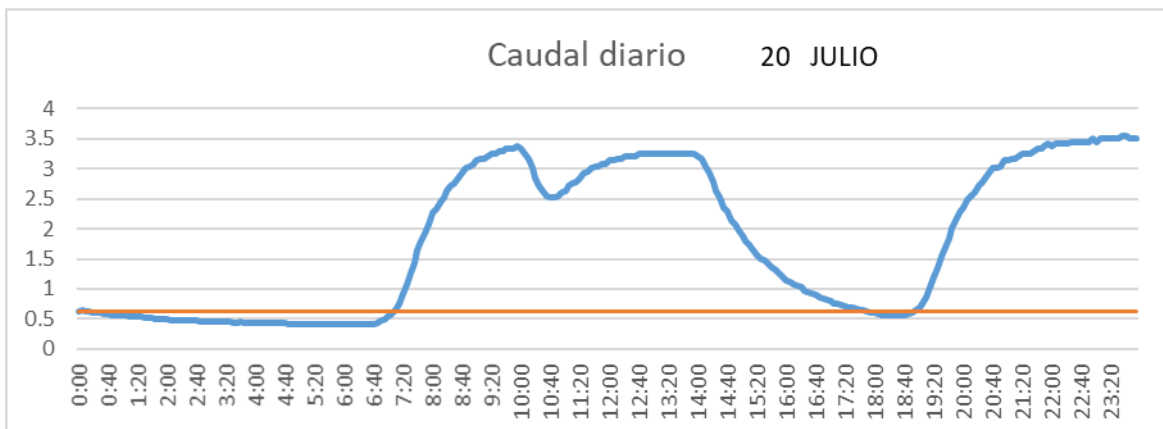
SAN LORENZO PARRILLA



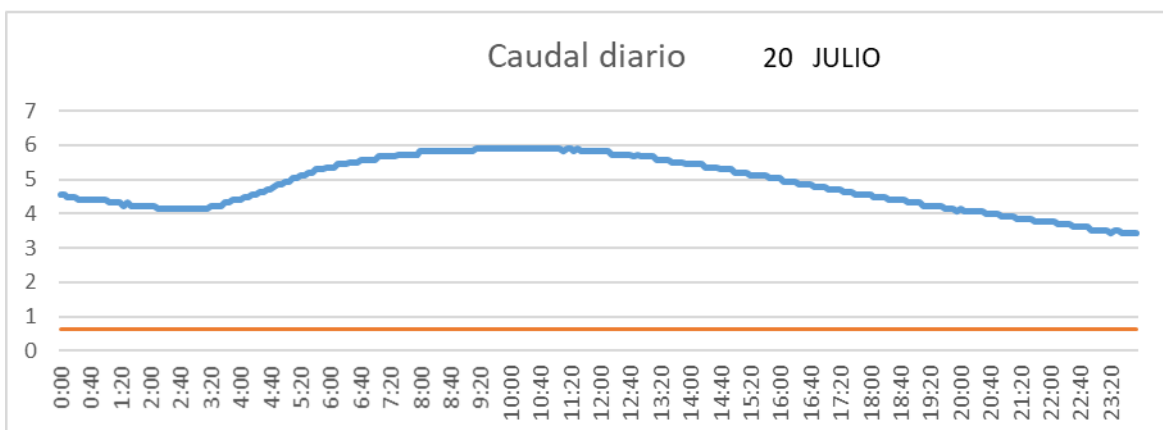
SALIDA TOBA



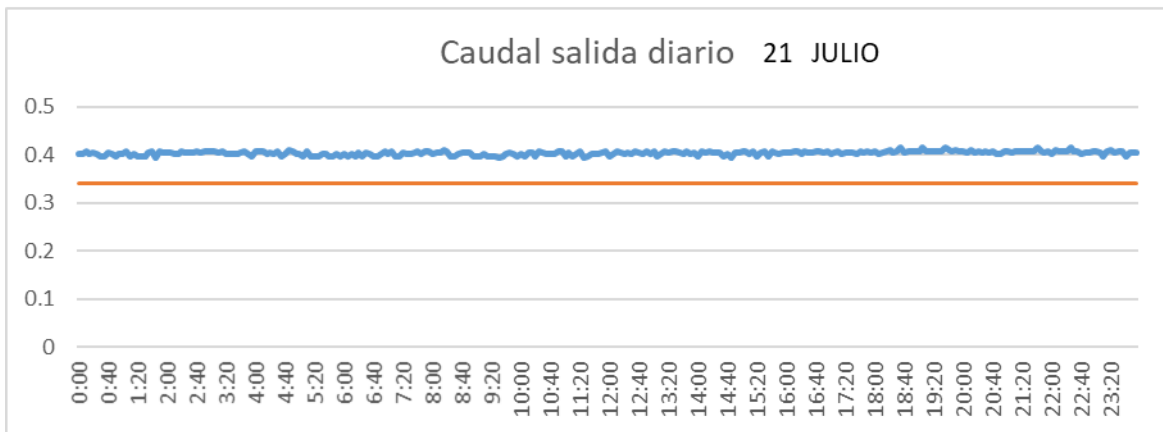
CUENCA



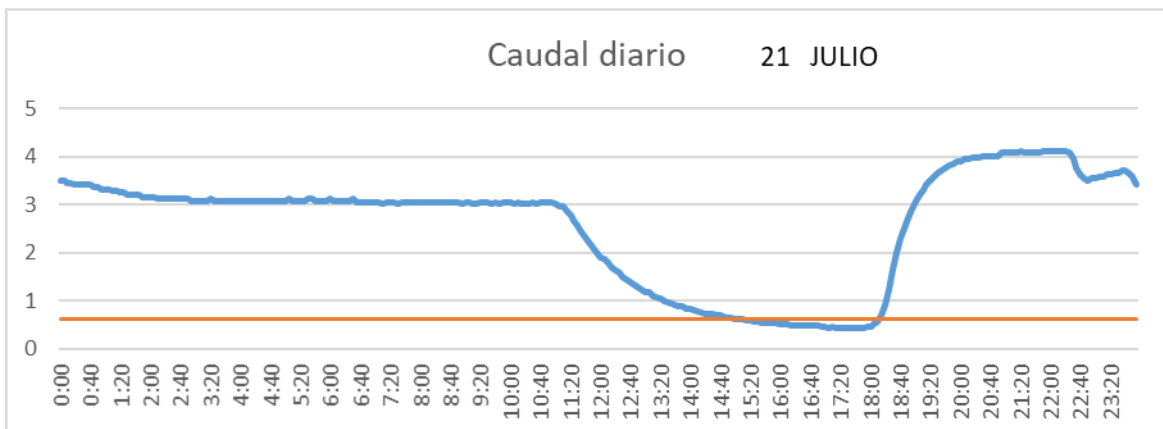
SAN LORENZO PARRILLA



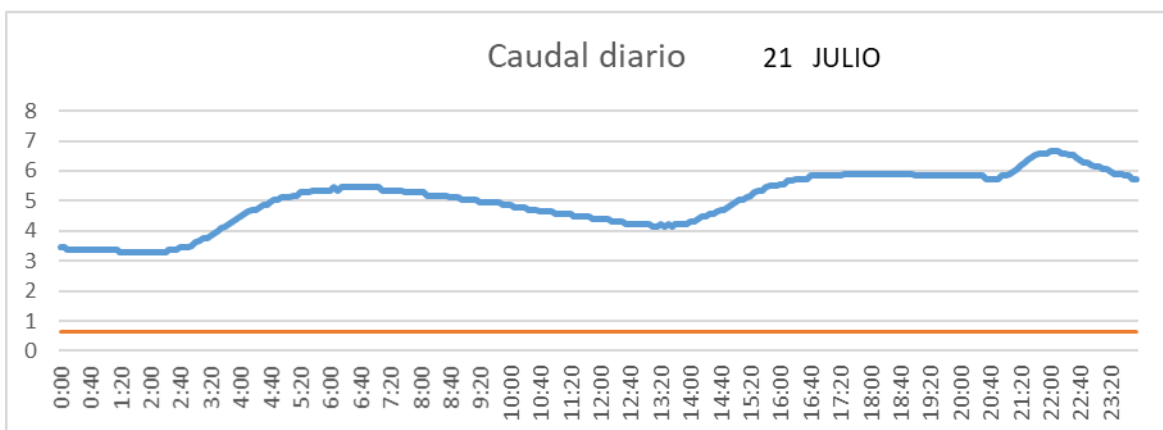
SALIDA TOBA



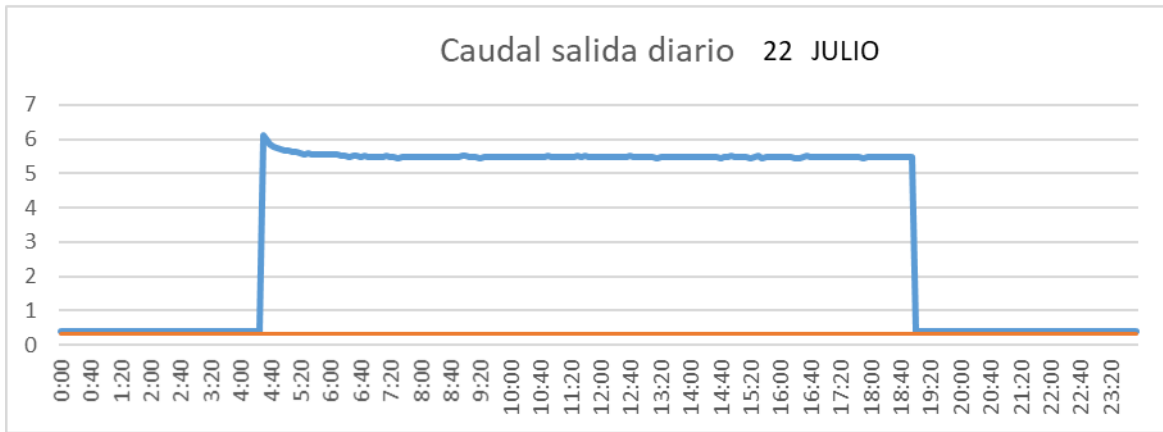
CUENCA



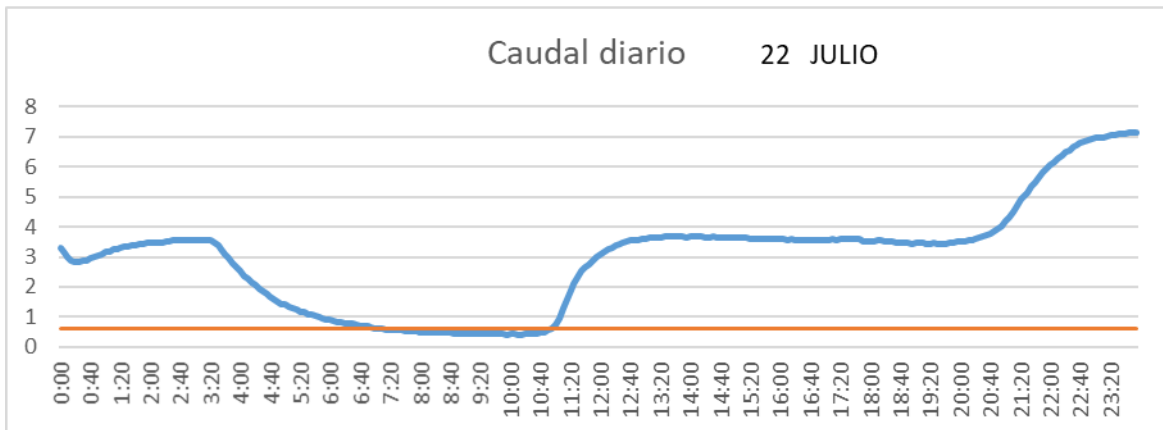
SAN LORENZO PARRILLA



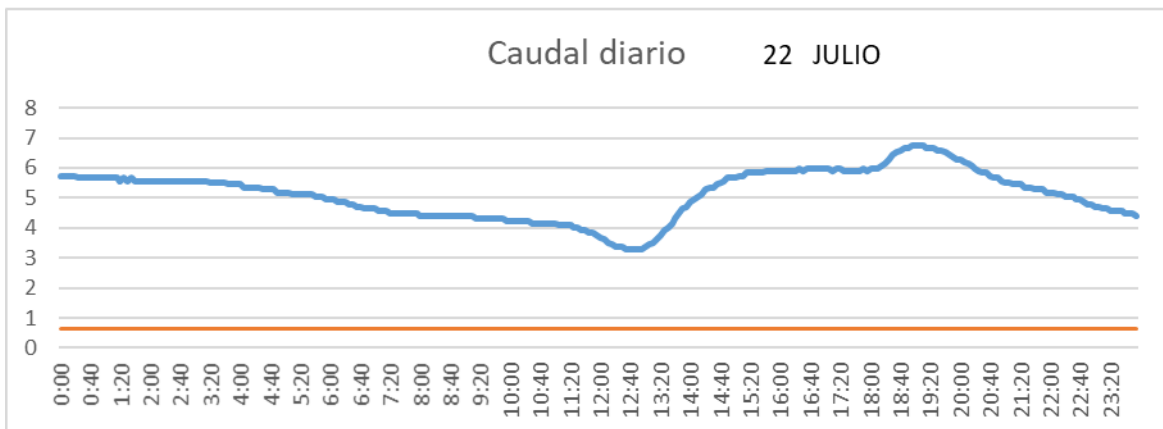
SALIDA TOBA



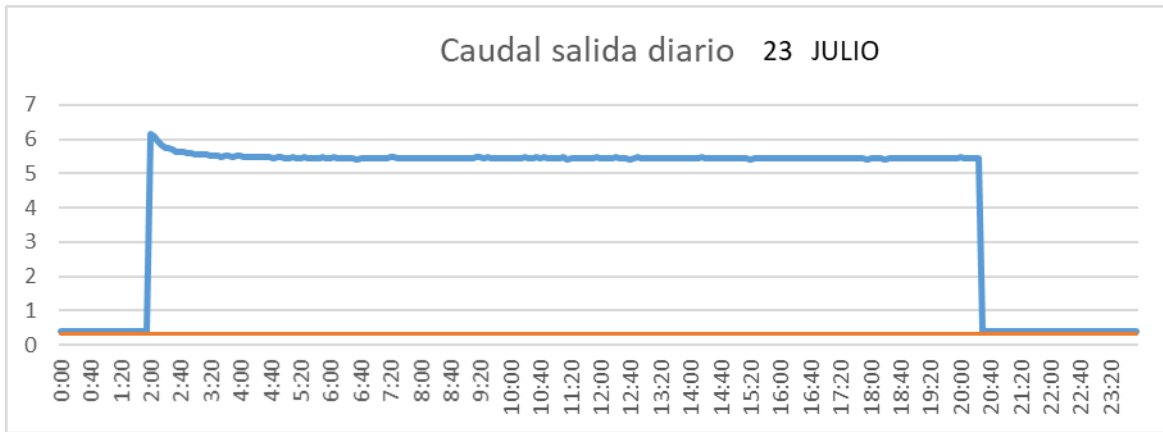
CUENCA



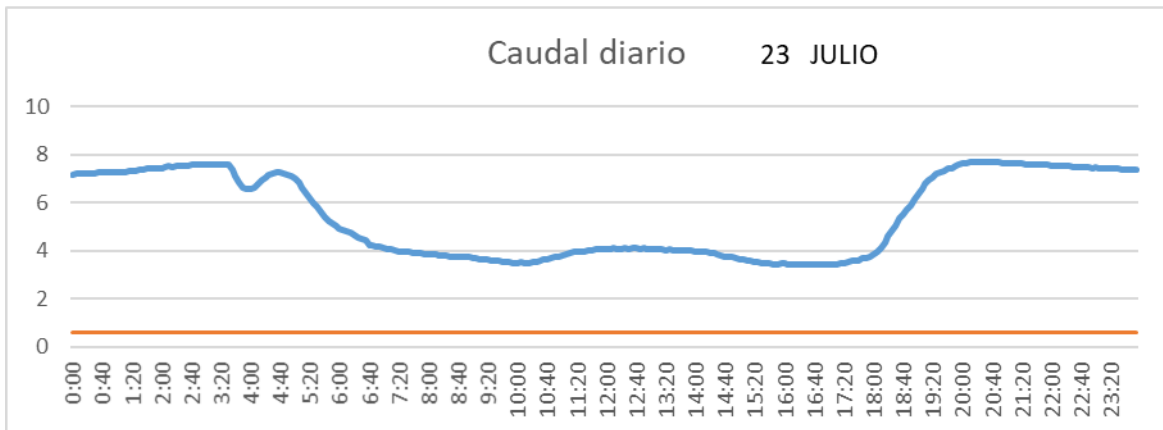
SAN LORENZO PARRILLA



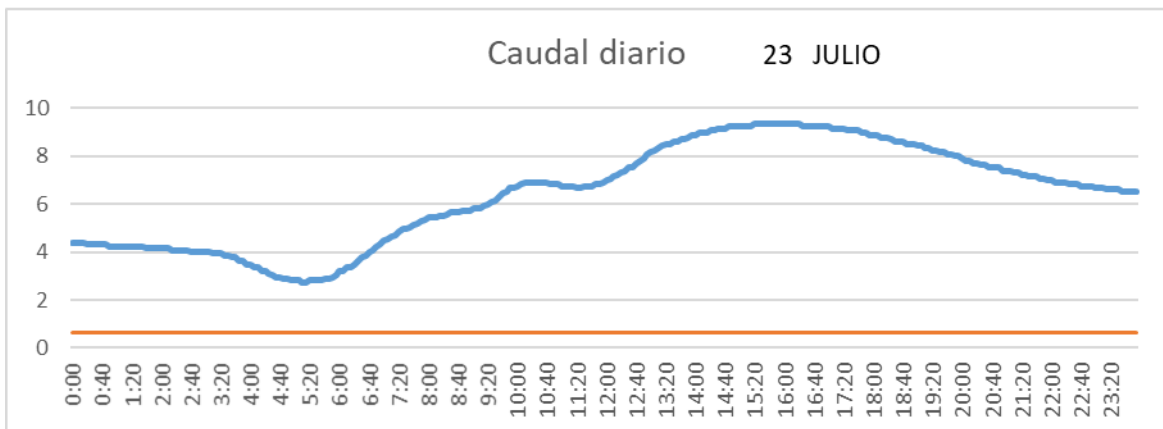
SALIDA TOBA



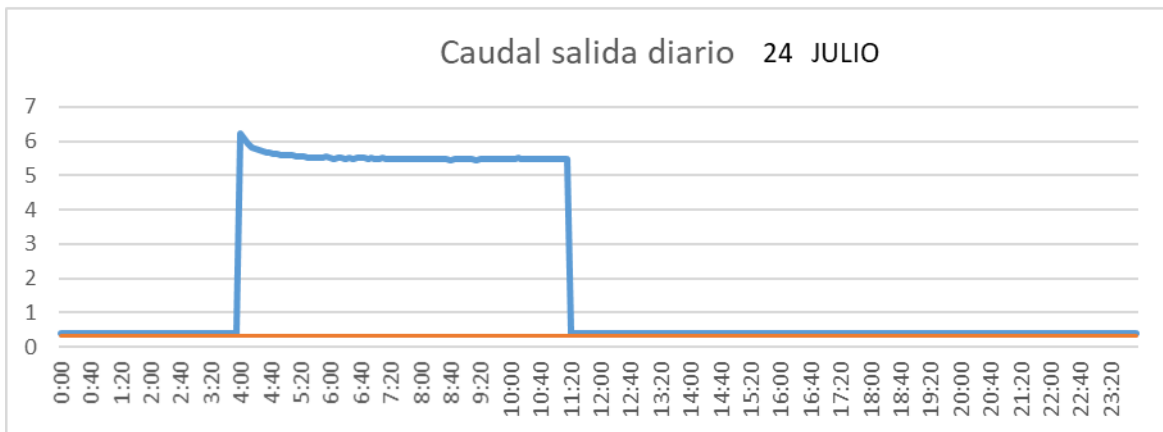
CUENCA



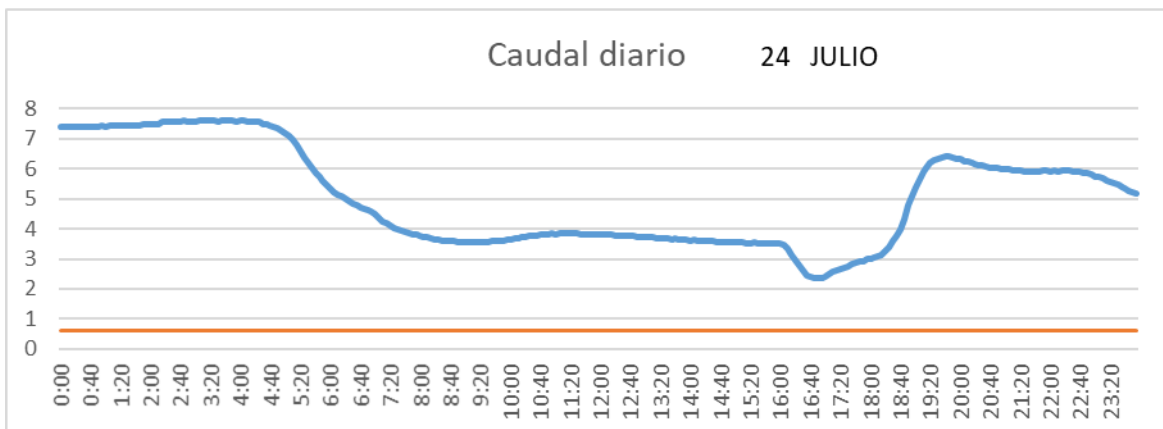
SAN LORENZO PARRILLA



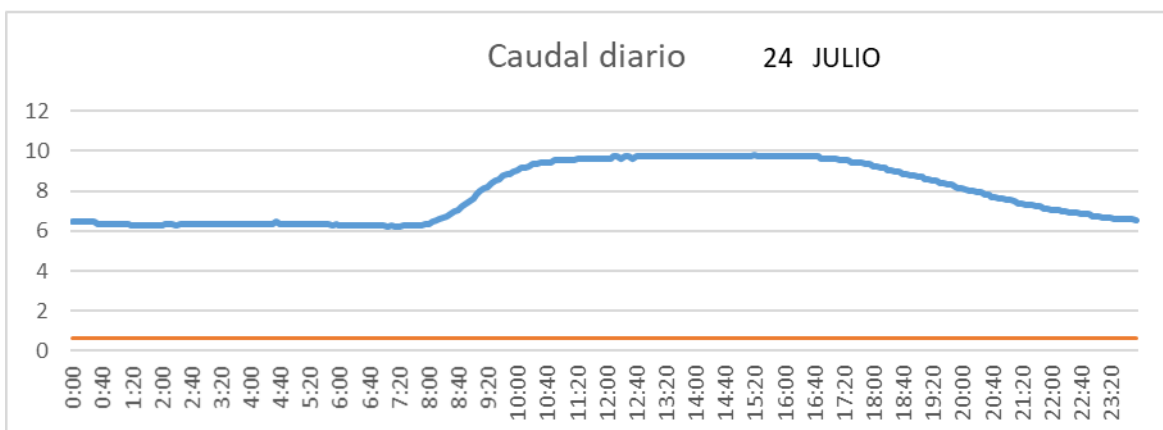
SALIDA TOBA



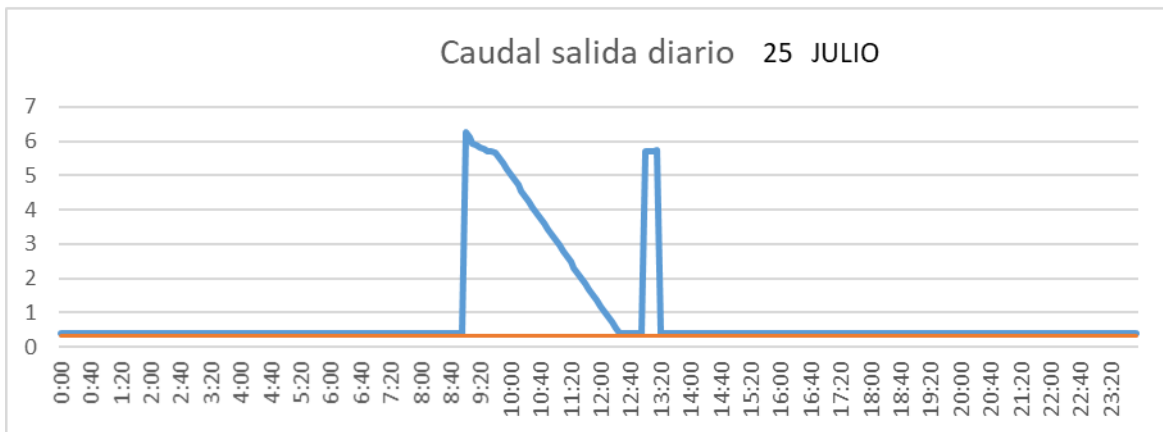
CUENCA



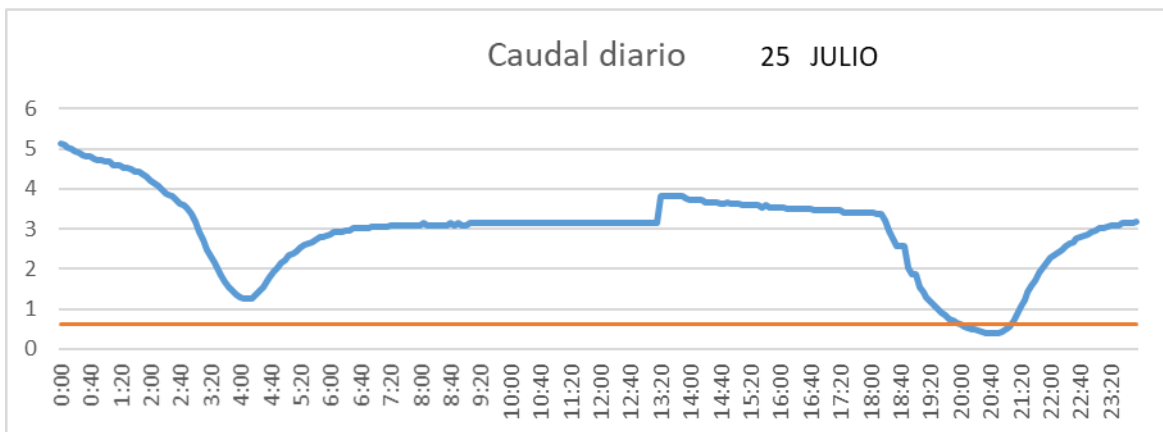
SAN LORENZO PARRILLA



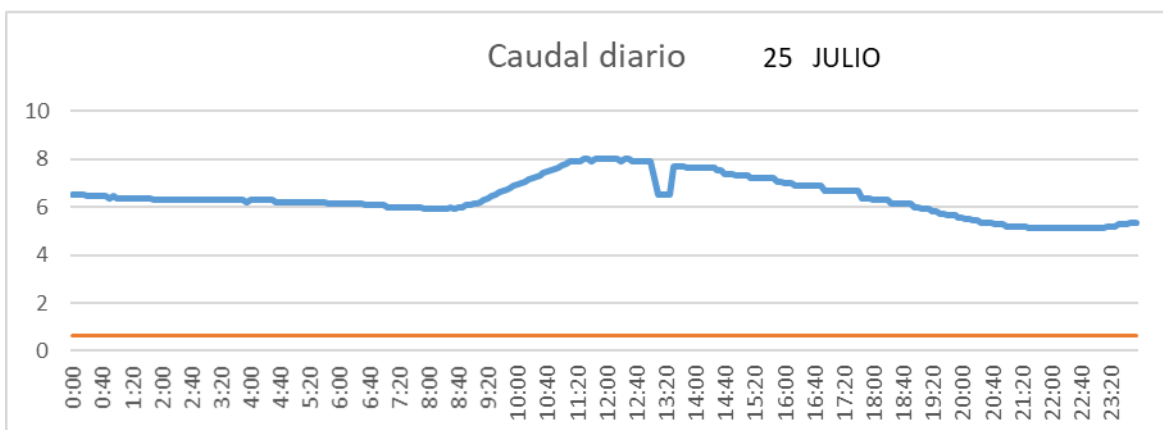
SALIDA TOBA



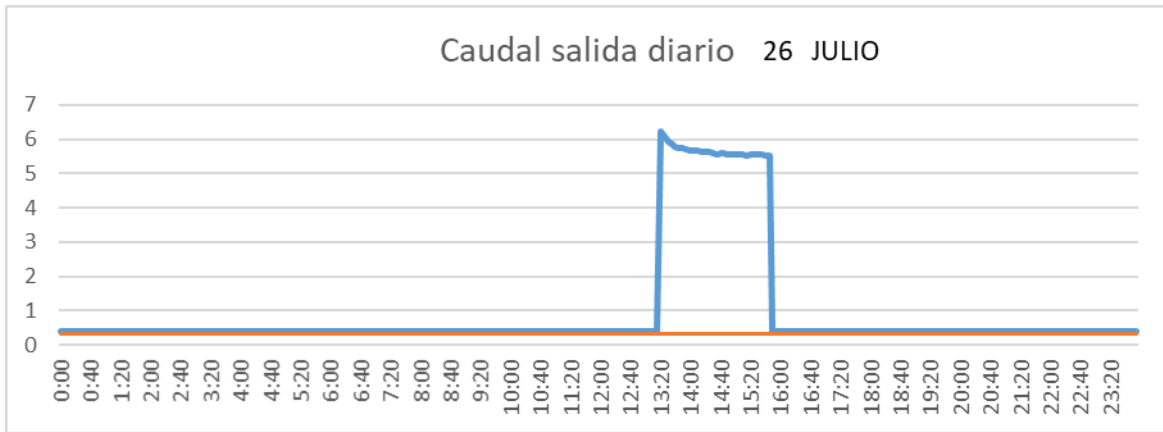
CUENCA



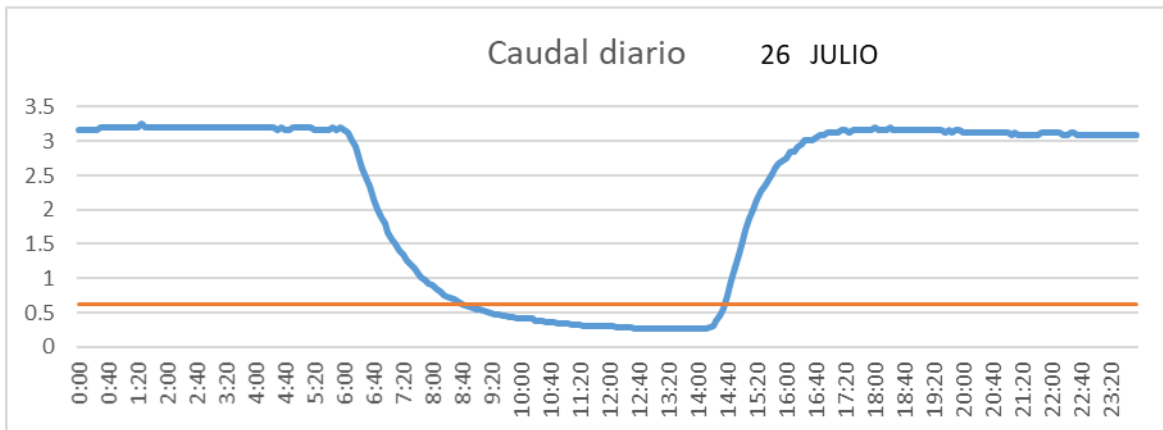
SAN LORENZO PARRILLA



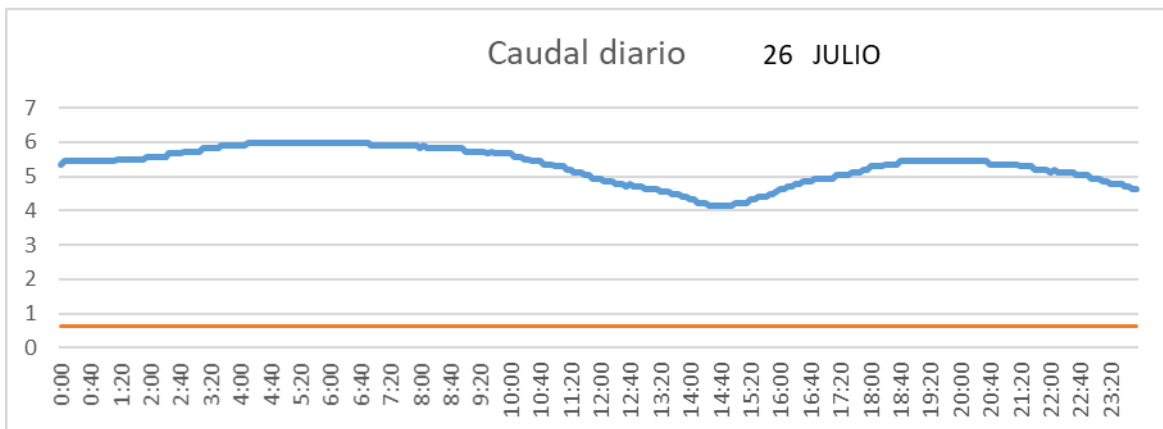
SALIDA TOBA



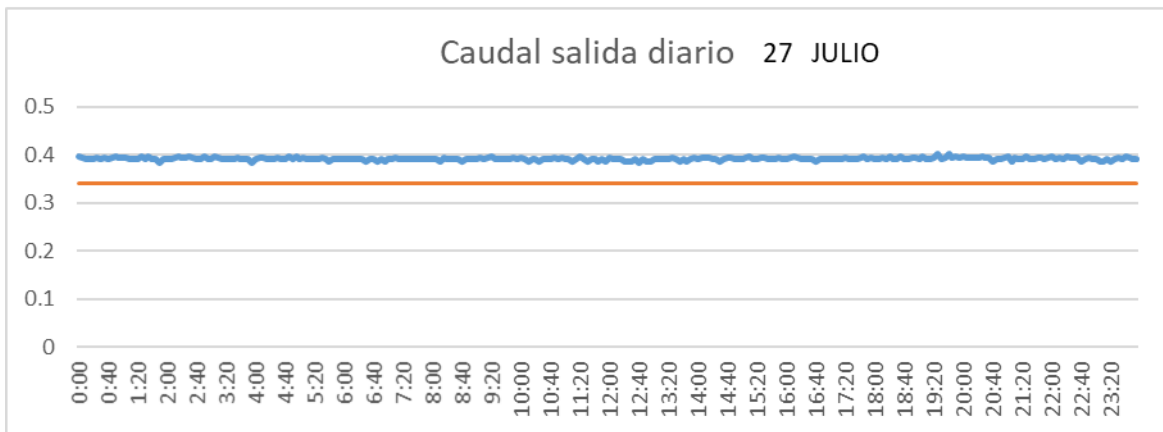
CUENCA



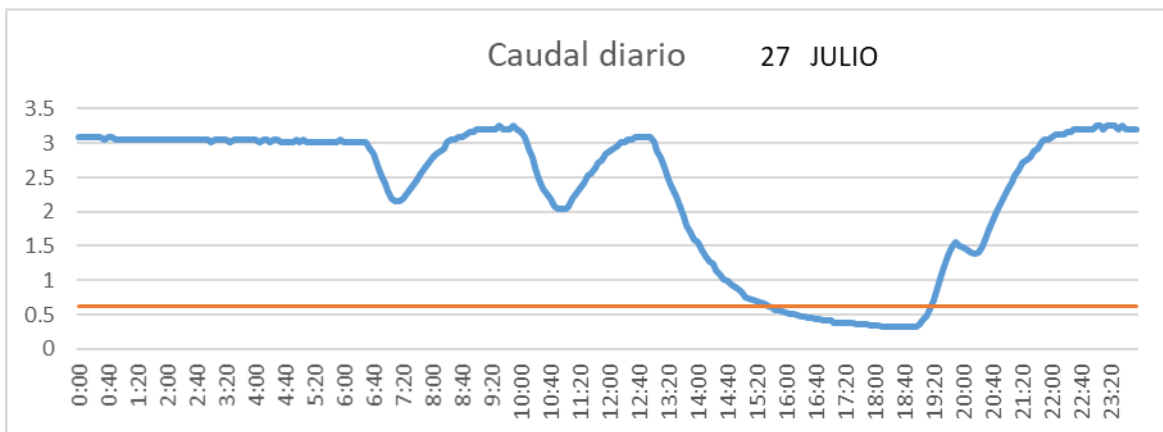
SAN LORENZO PARRILLA



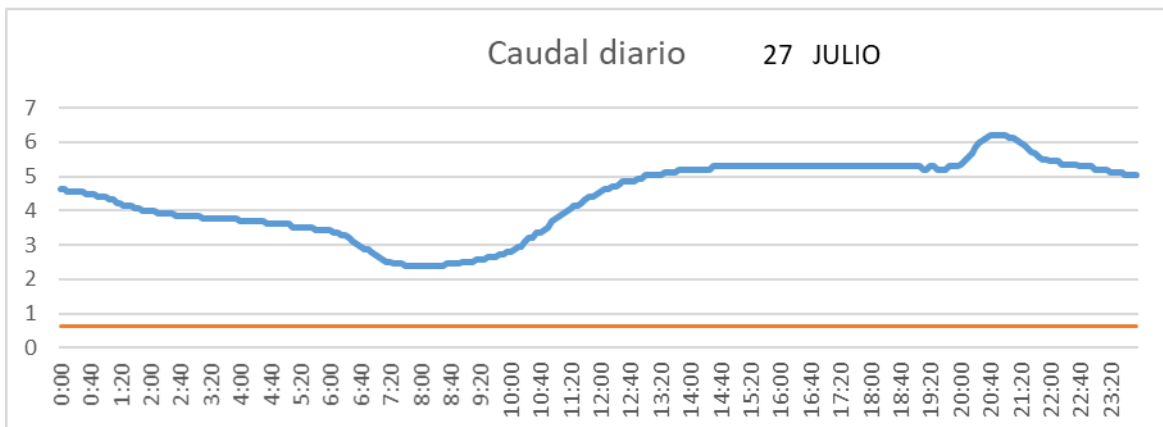
SALIDA TOBA



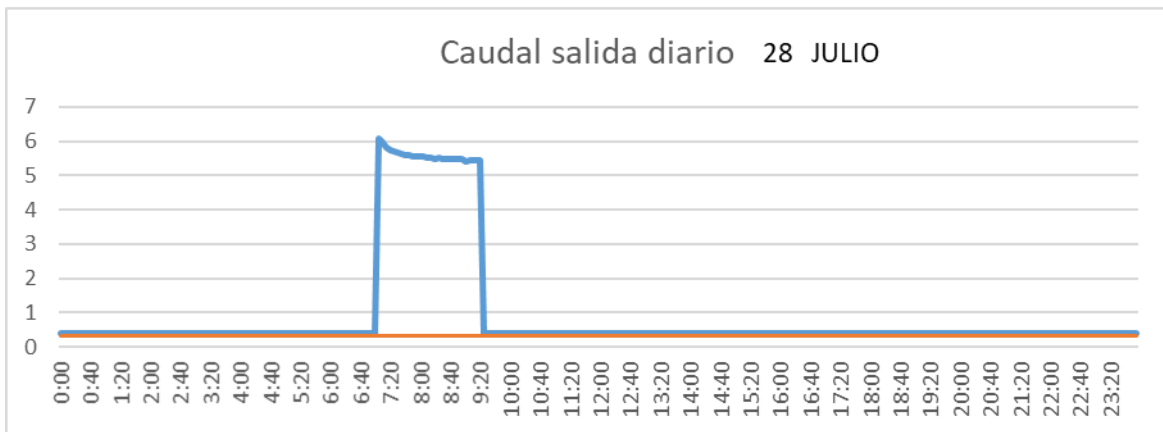
CUENCA



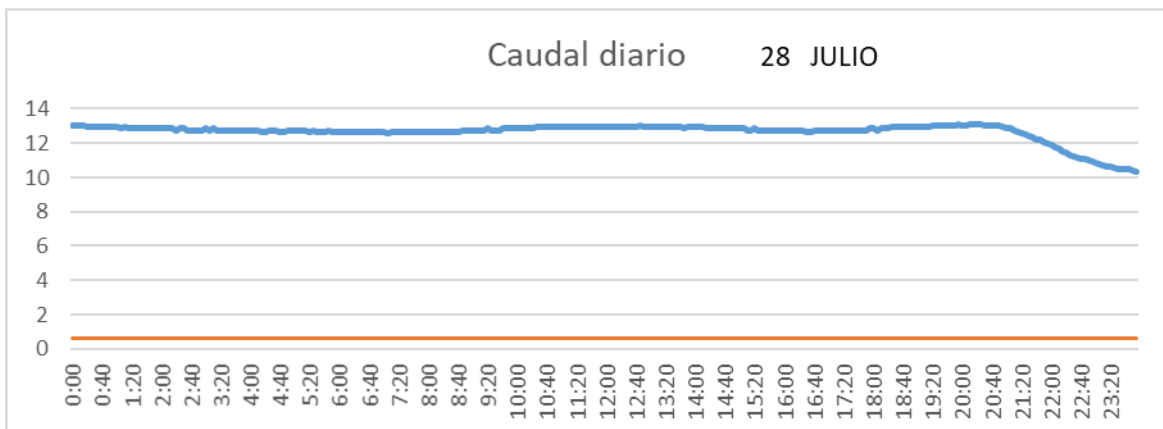
SAN LORENZO PARRILLA



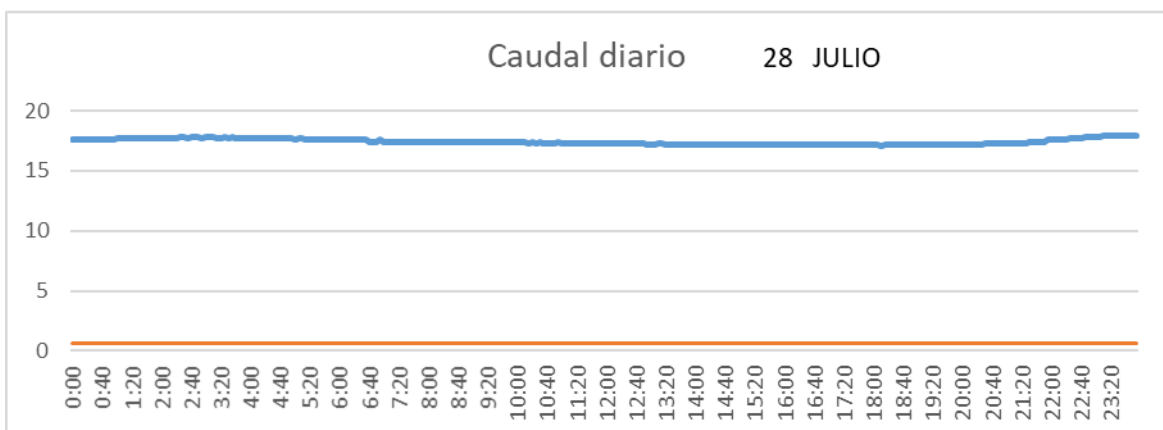
SALIDA TOBA



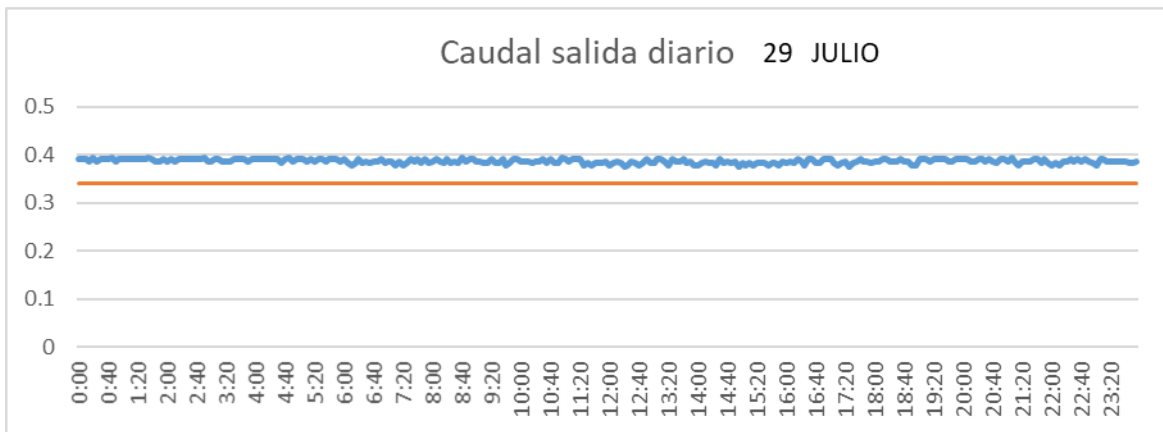
CUENCA



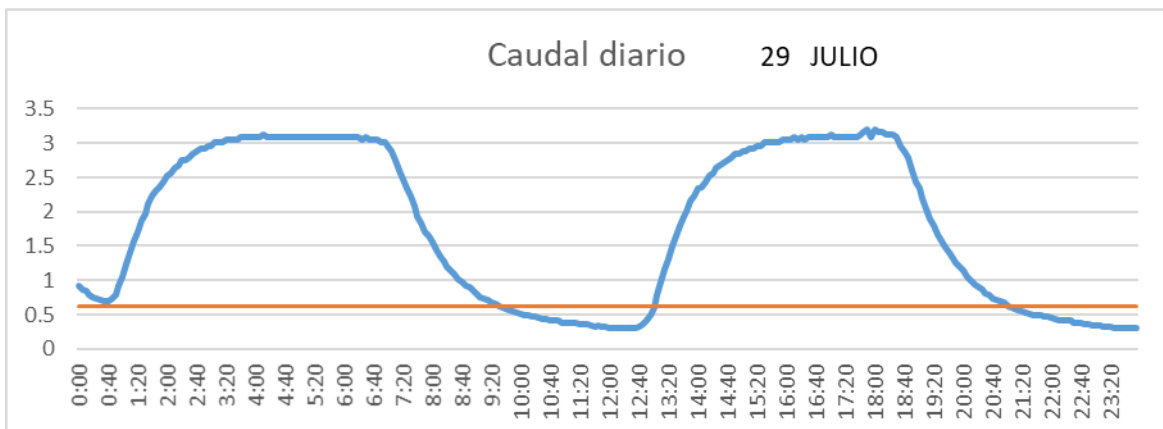
SAN LORENZO PARRILLA



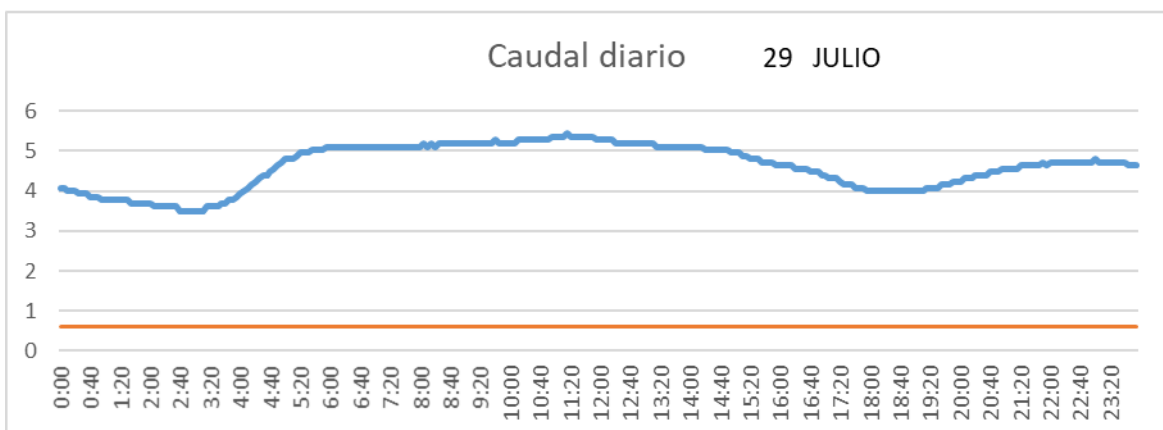
SALIDA TOBA



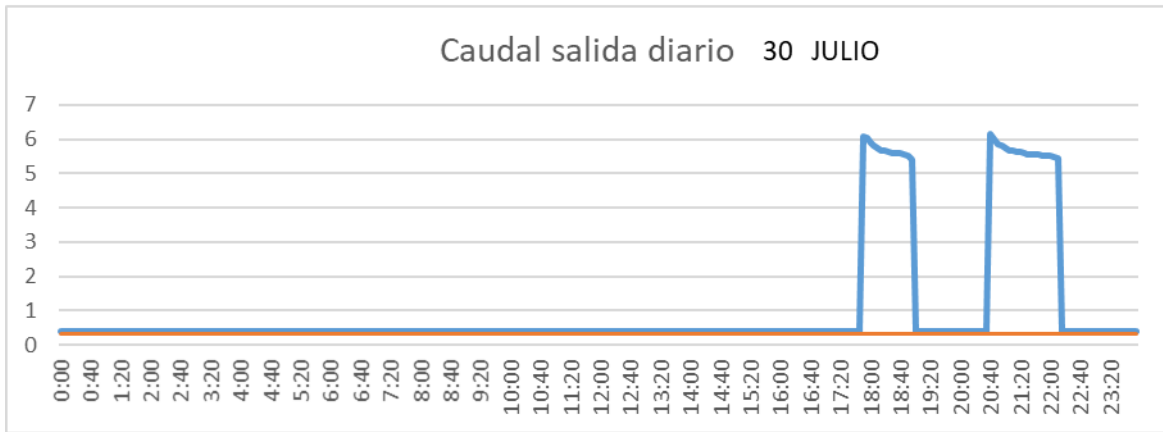
CUENCA



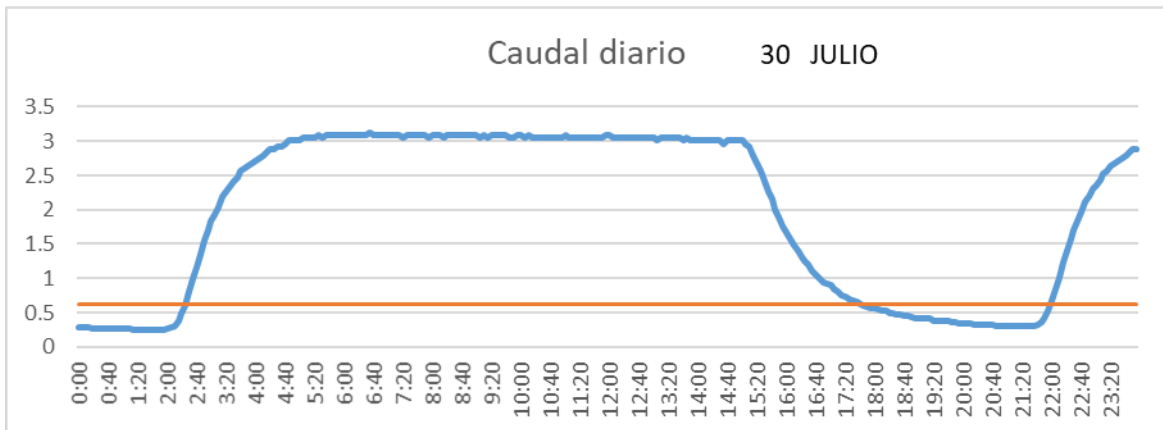
SAN LORENZO PARRILLA



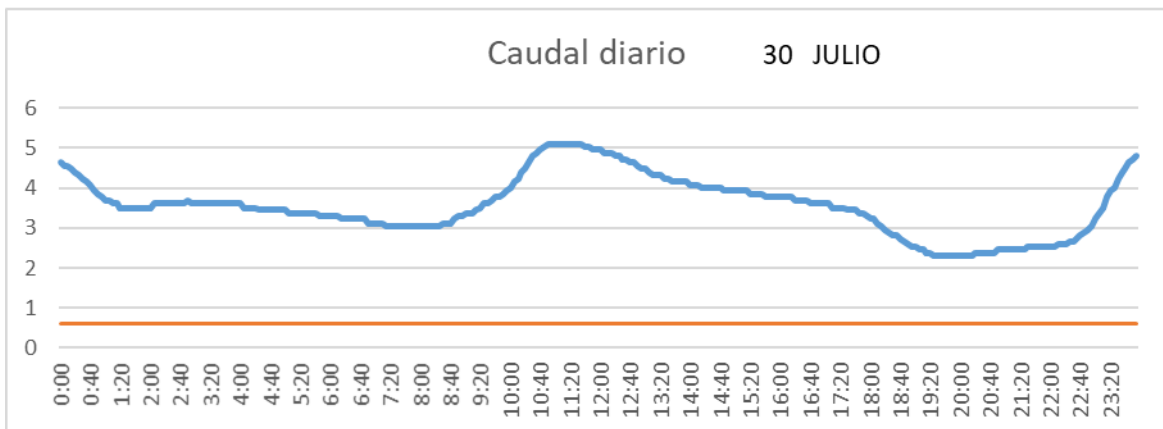
SALIDA TOBA



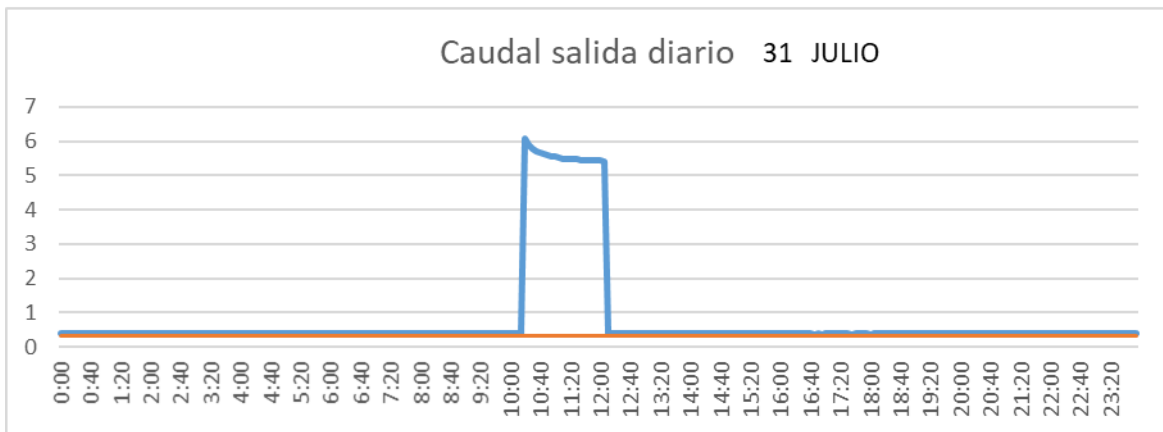
CUENCA



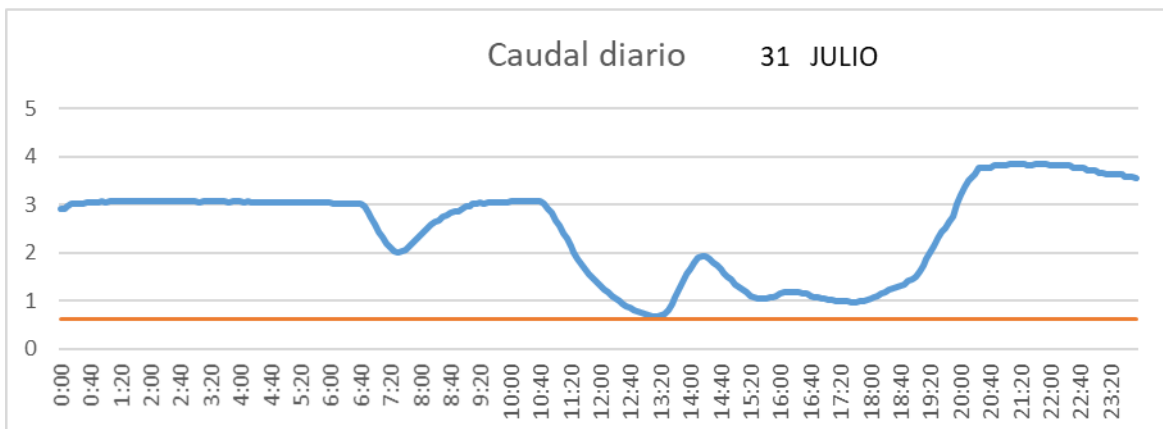
SAN LORENZO PARRILLA



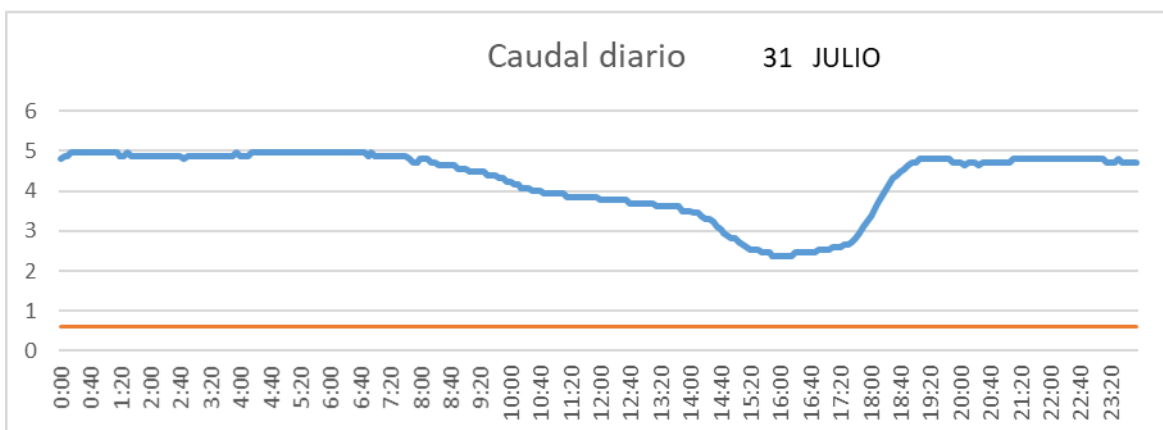
SALIDA TOBA



CUENCA

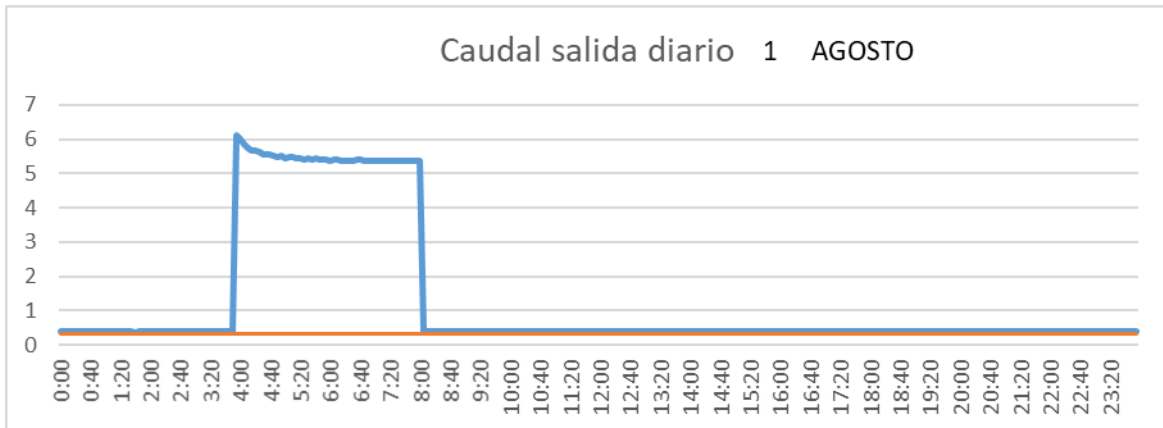


SAN LORENZO PARRILLA

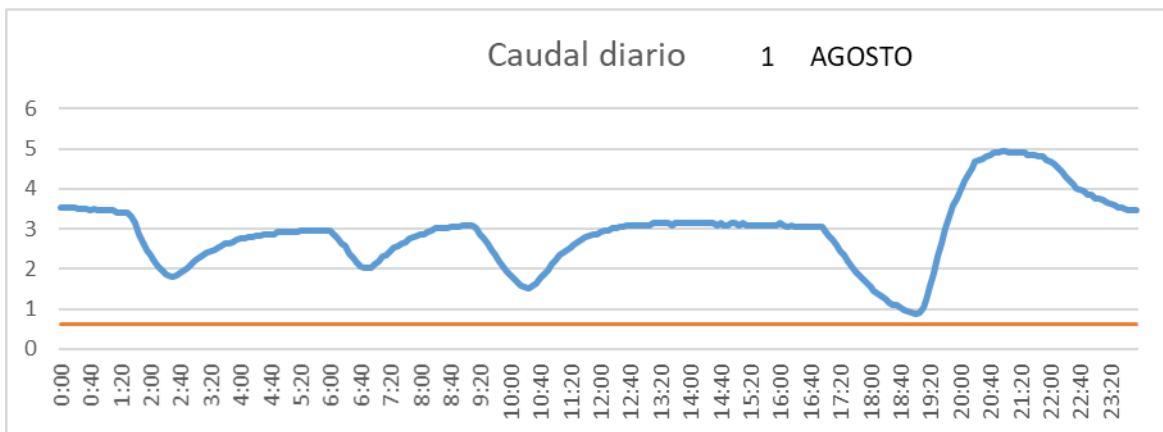


2.1.8 Agosto

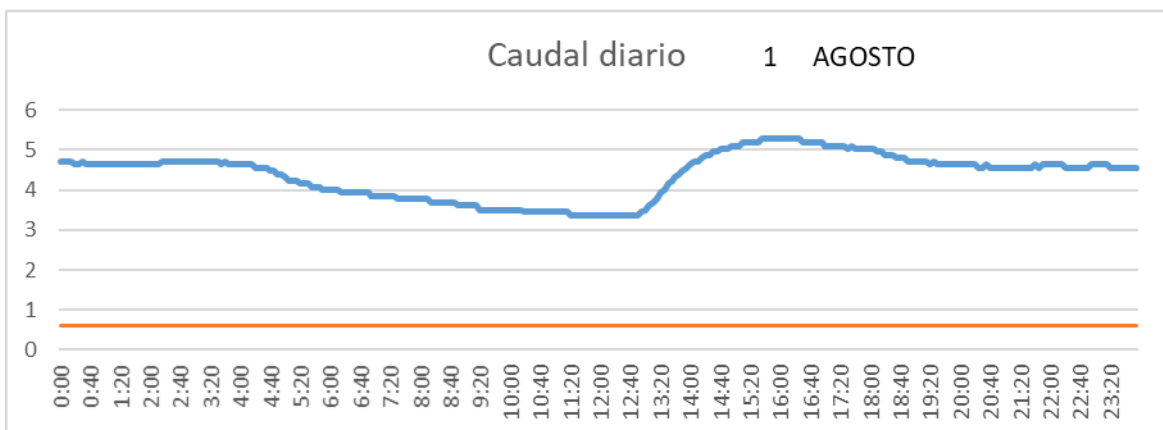
SALIDA TOBA



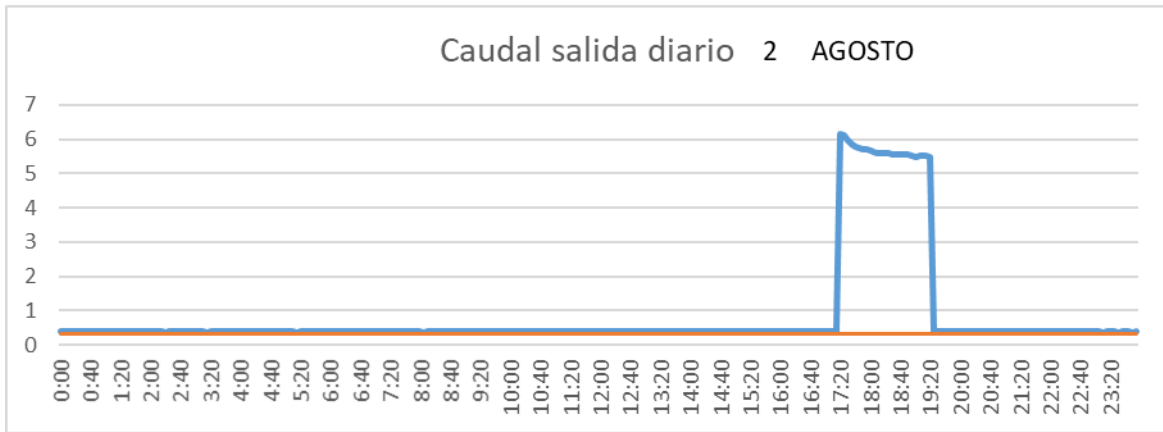
CUENCA



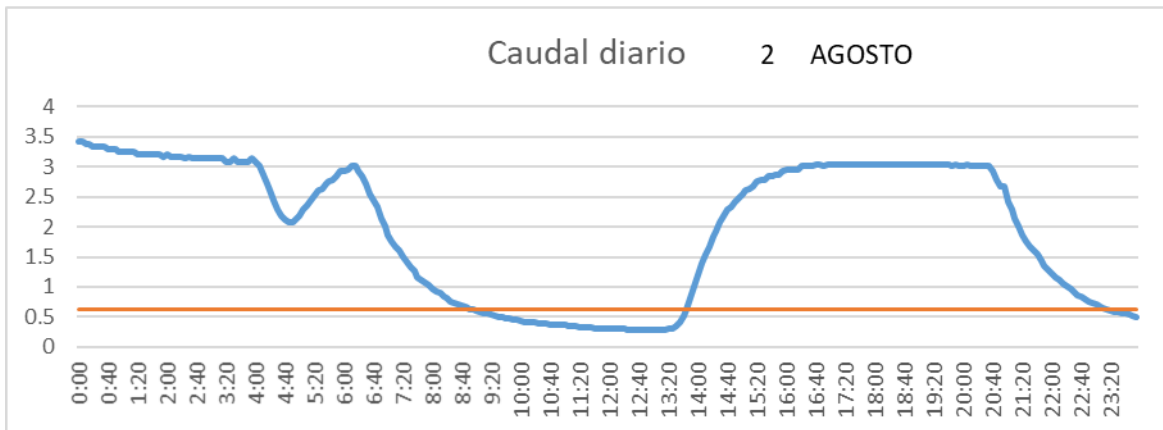
SAN LORENZO PARRILLA



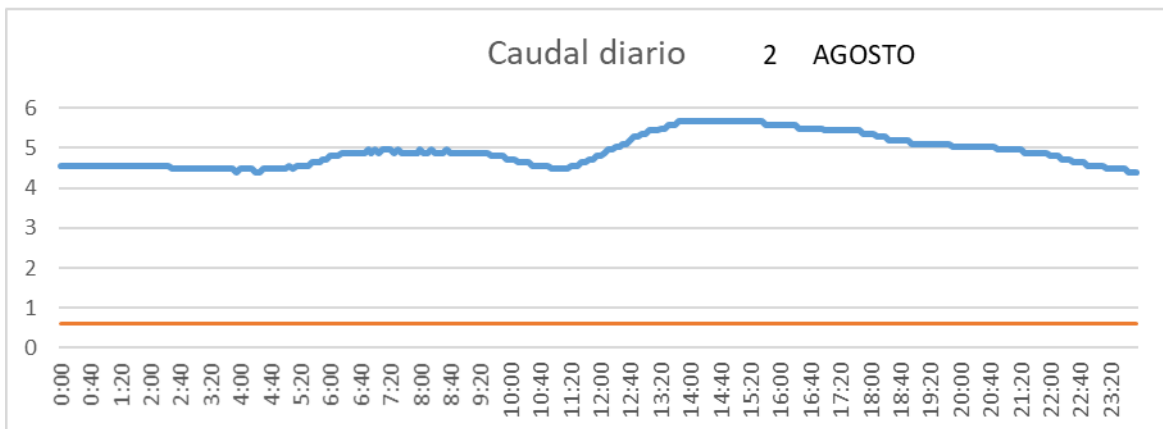
SALIDA TOBA



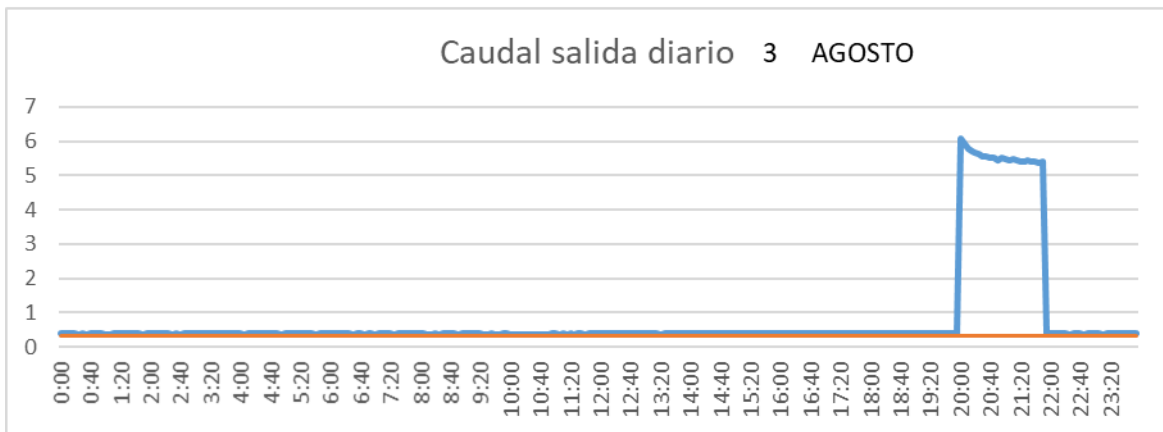
CUENCA



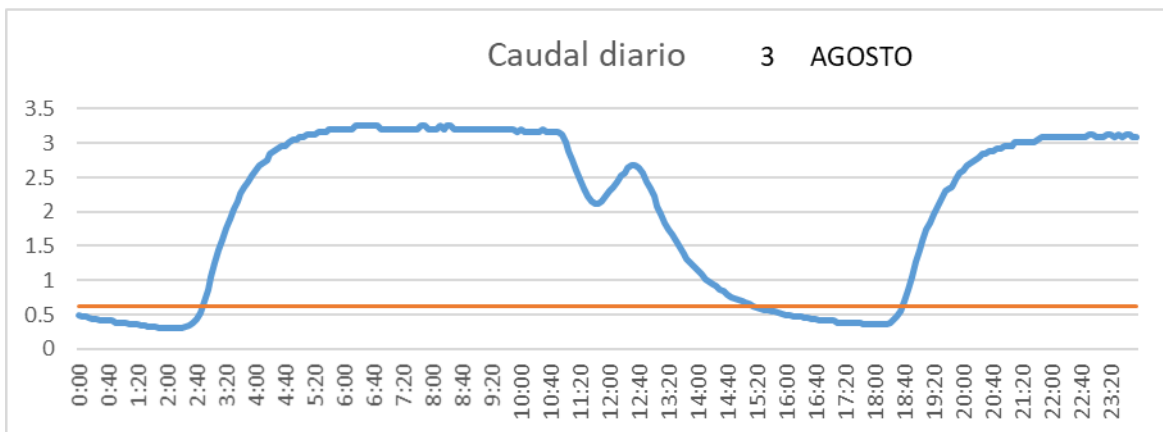
SAN LORENZO PARRILLA



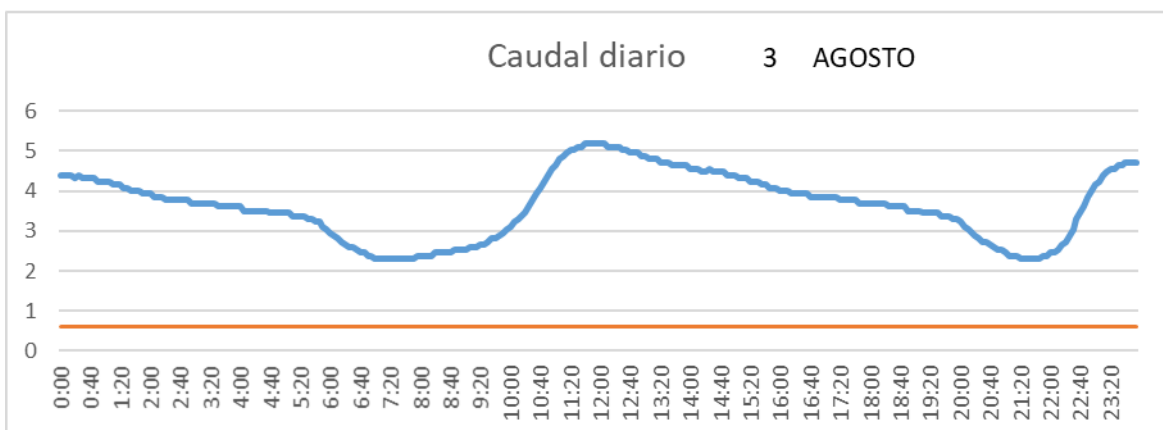
SALIDA TOBA



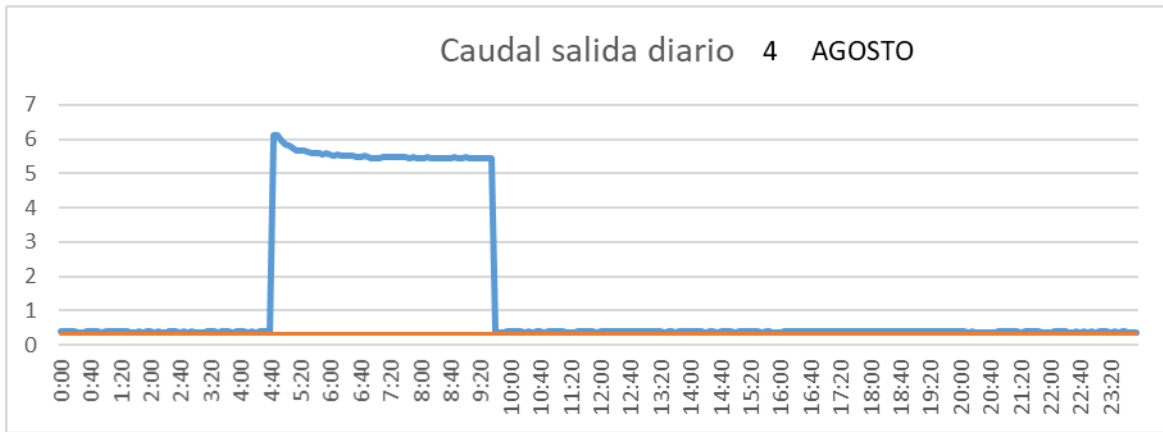
CUENCA



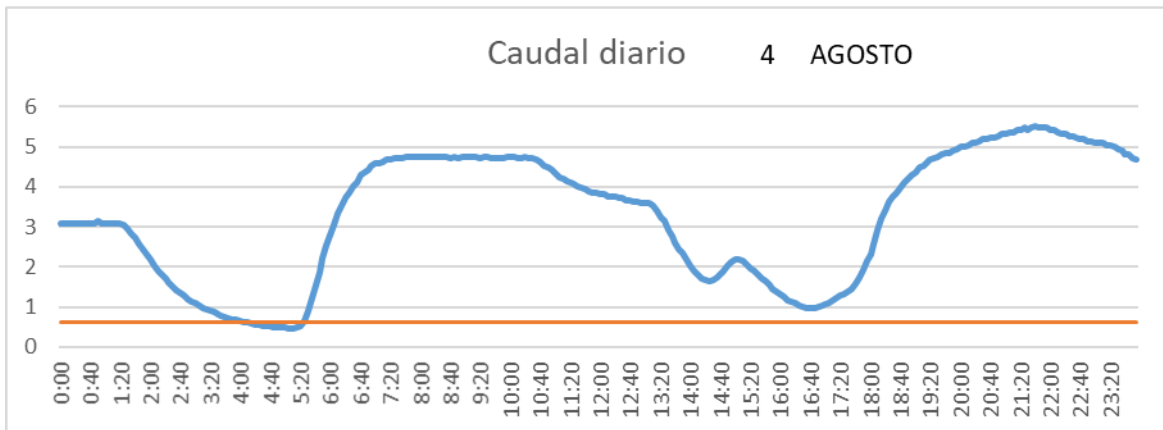
SAN LORENZO PARRILLA



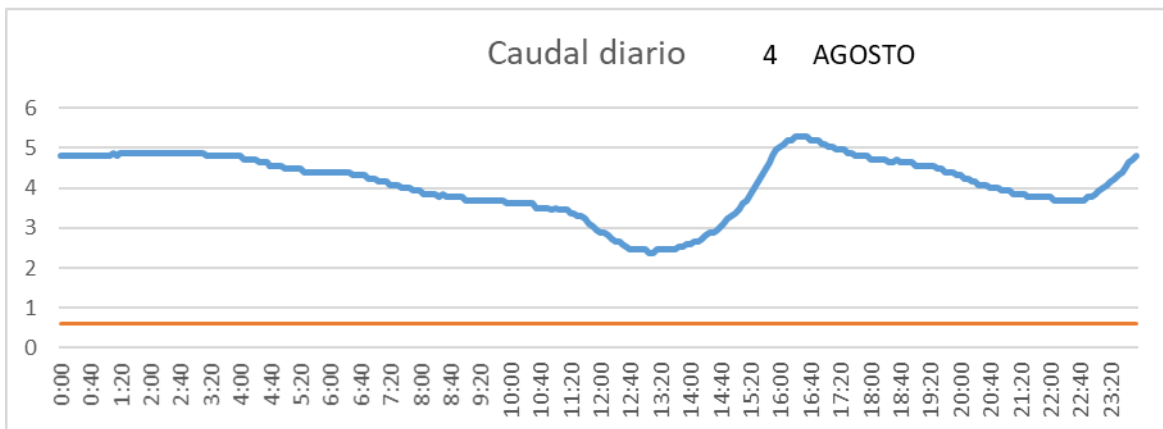
SALIDA TOBA



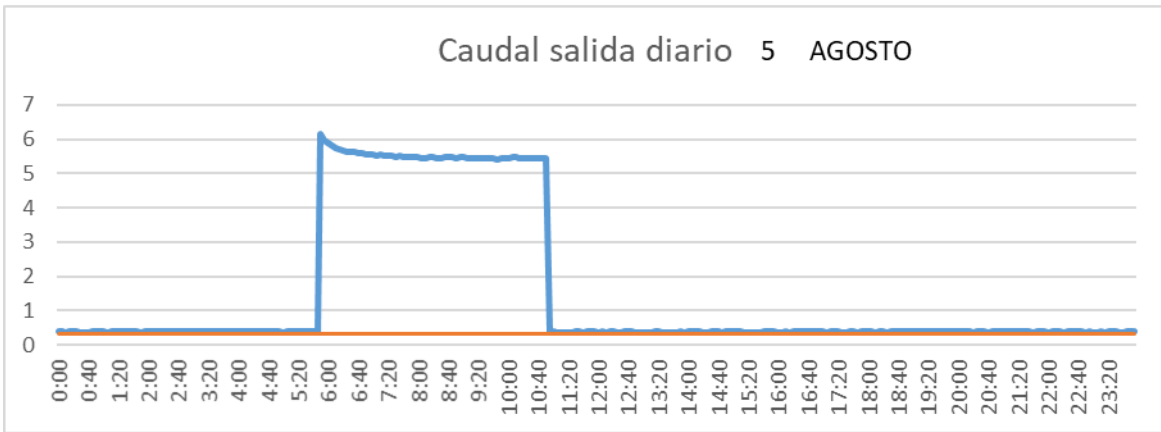
CUENCA



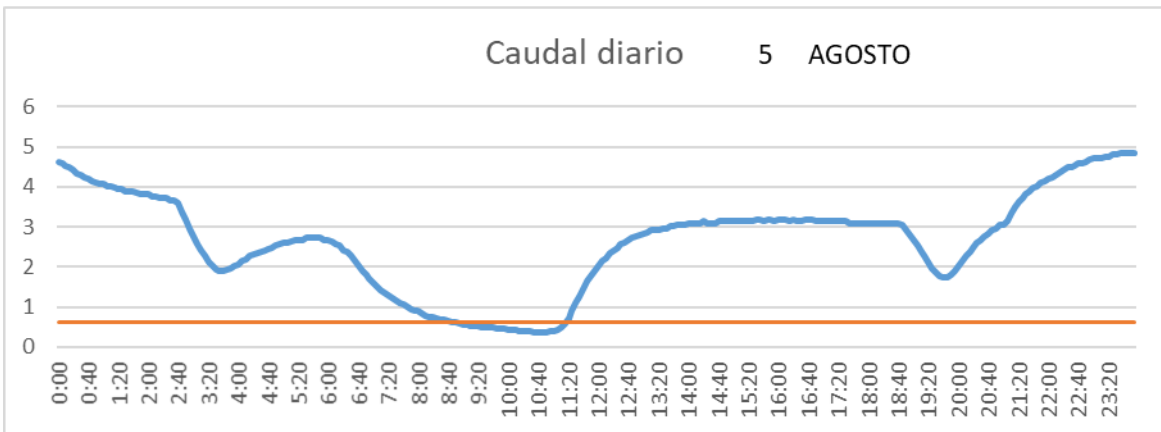
SAN LORENZO PARRILLA



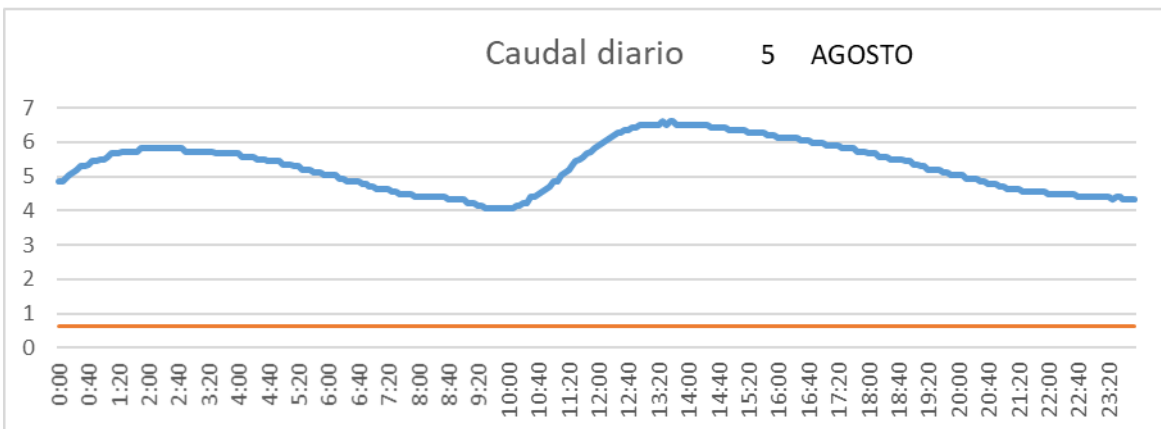
SALIDA TOBA



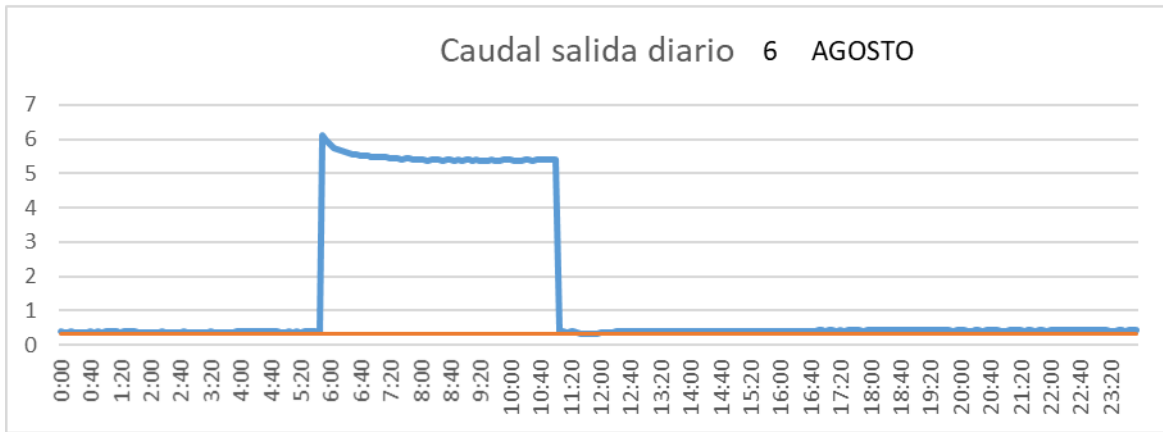
CUENCA



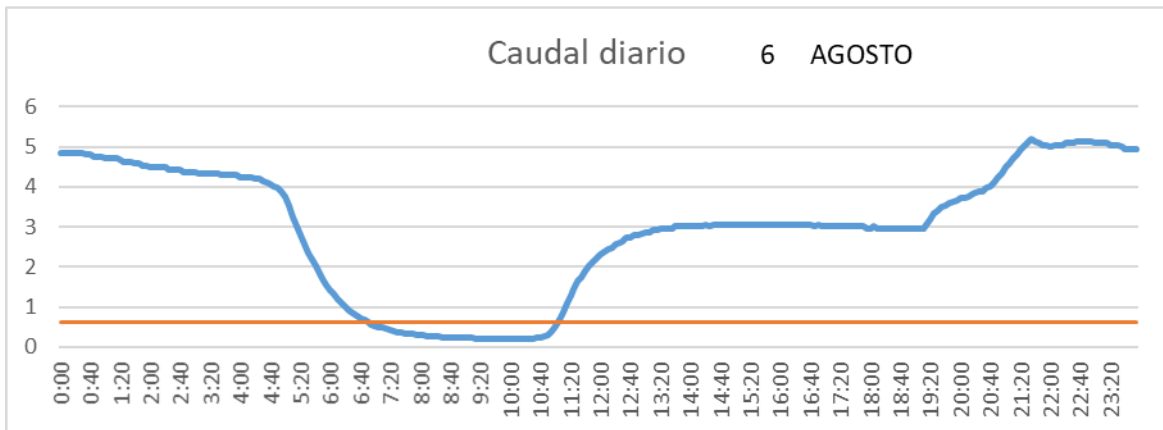
SAN LORENZO PARRILLA



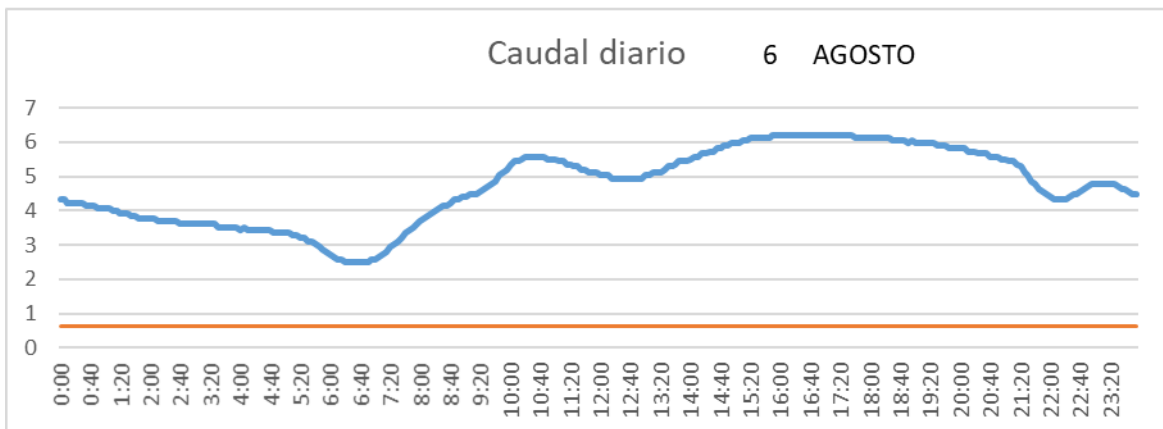
SALIDA TOBA



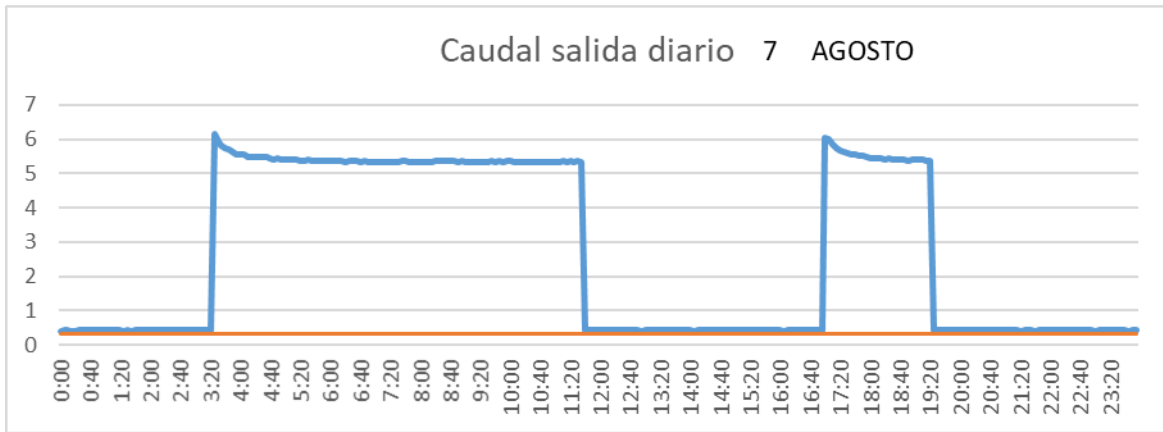
CUENCA



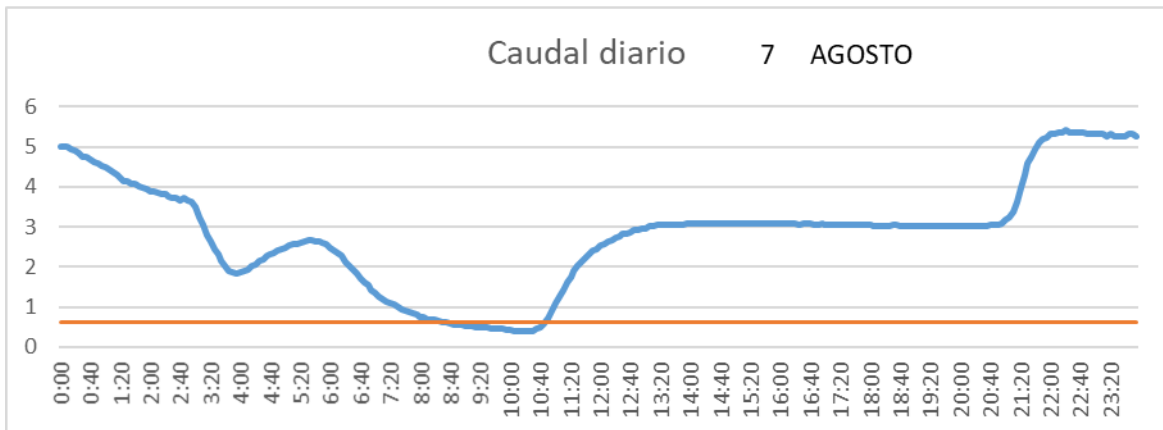
SAN LORENZO PARRILLA



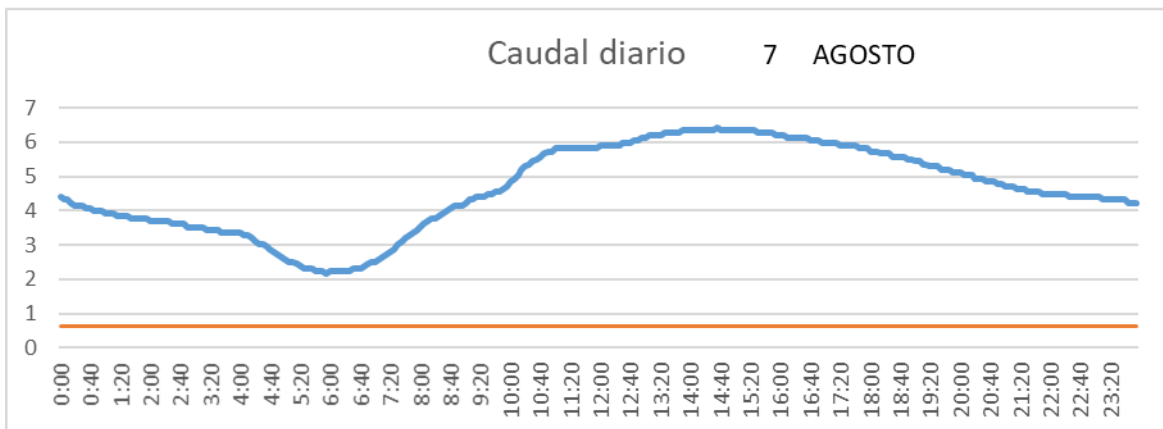
SALIDA TOBA



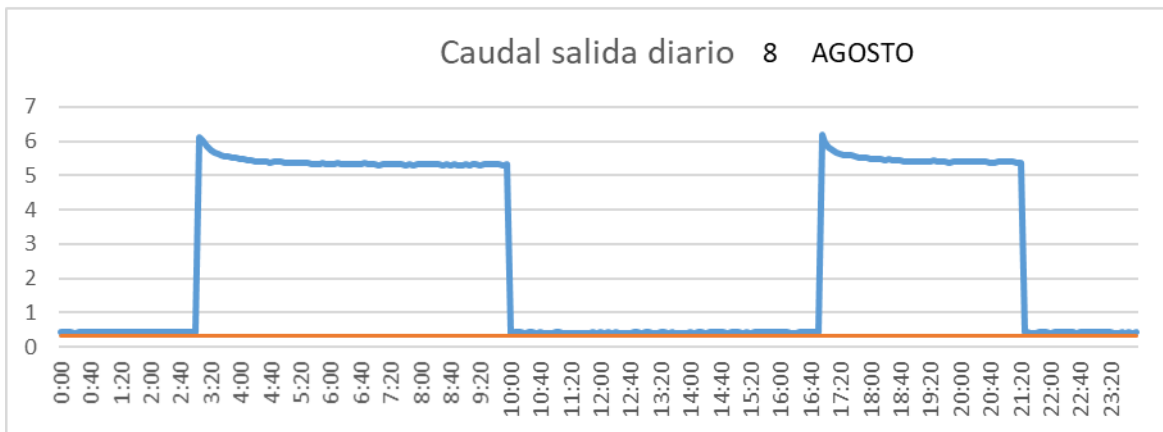
CUENCA



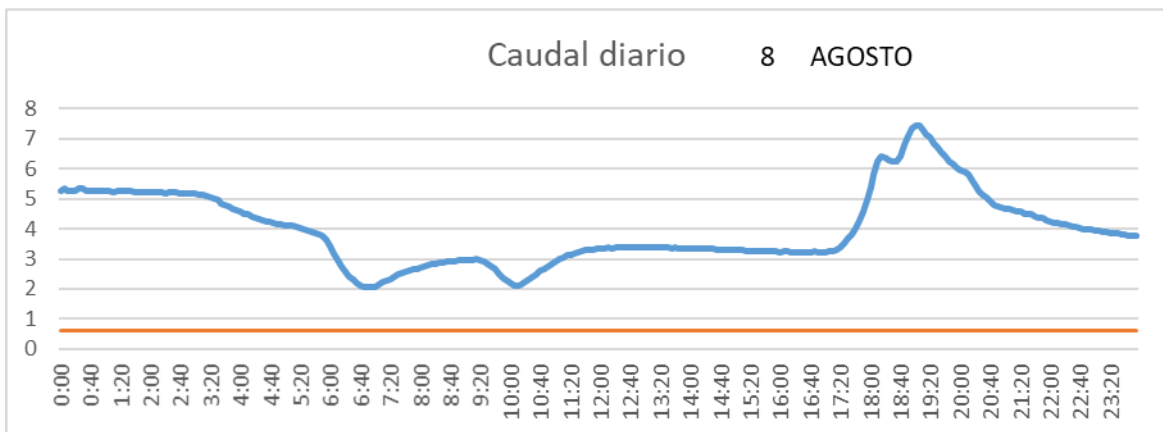
SAN LORENZO PARRILLA



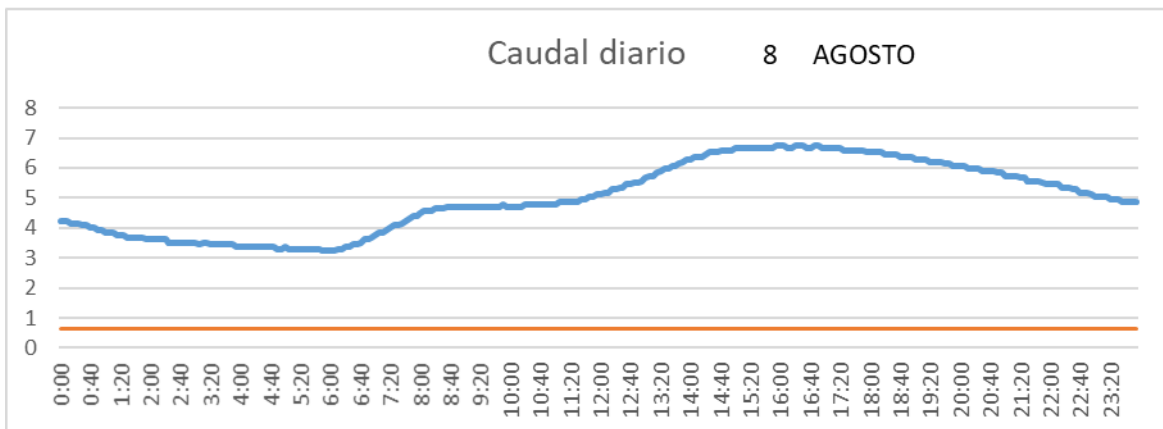
SALIDA TOBA



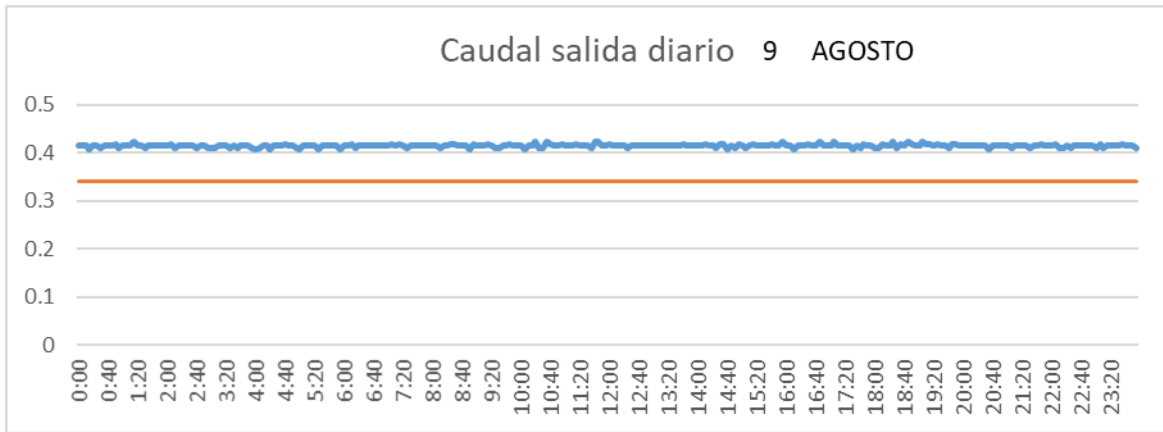
CUENCA



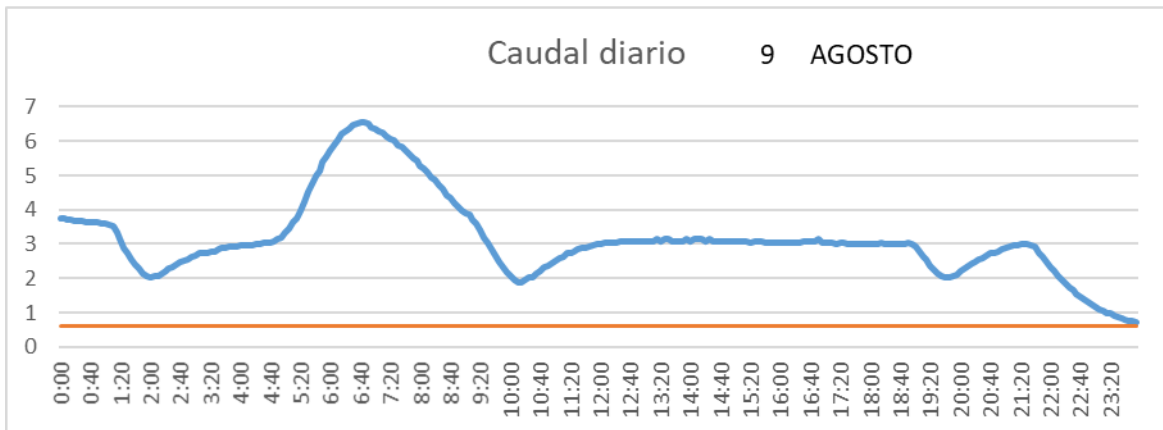
SAN LORENZO PARRILLA



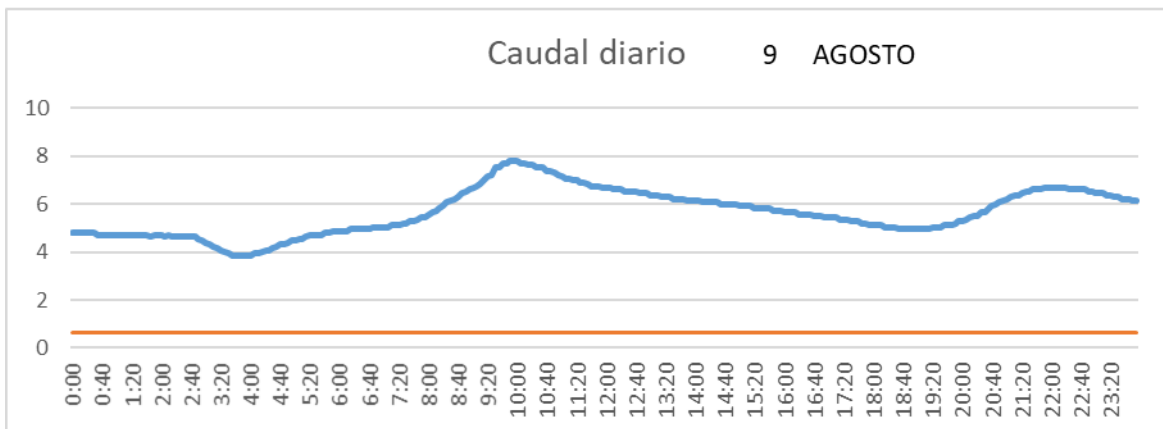
SALIDA TOBA



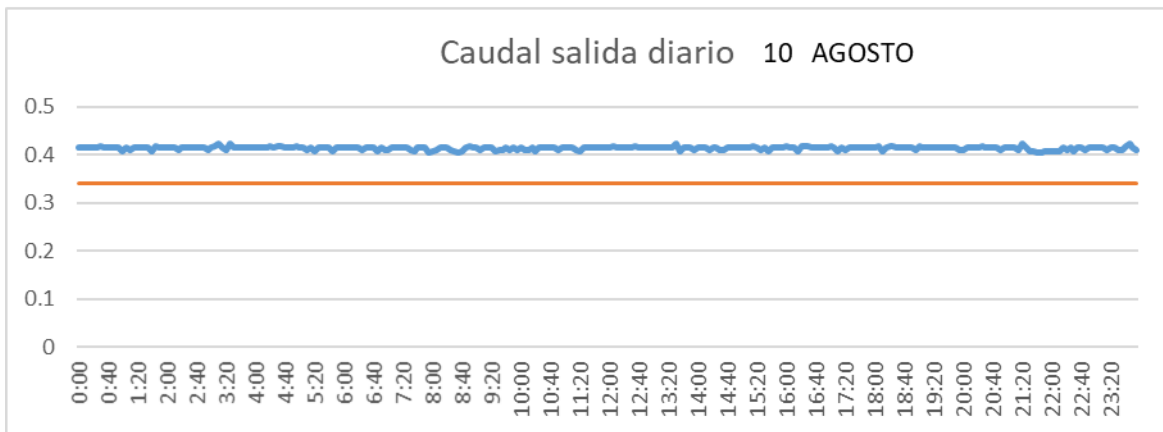
CUENCA



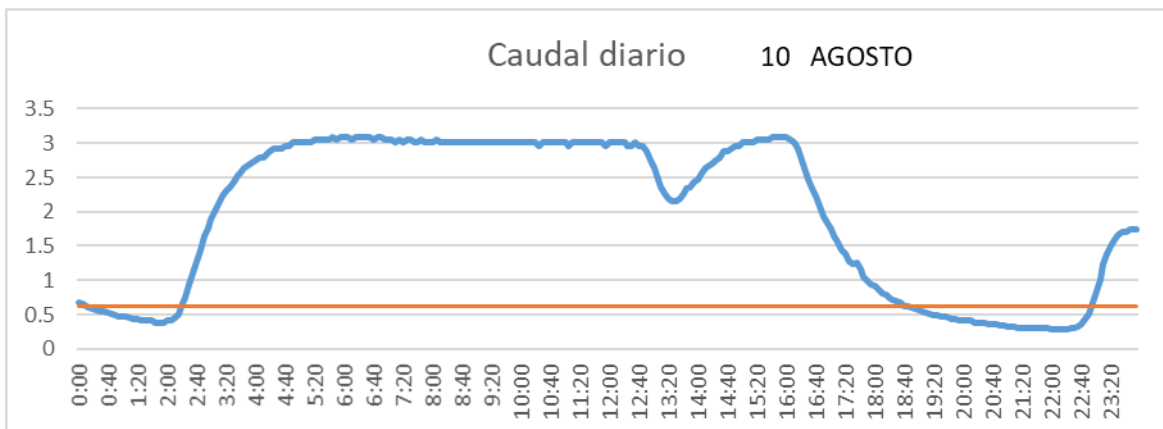
SAN LORENZO PARRILLA



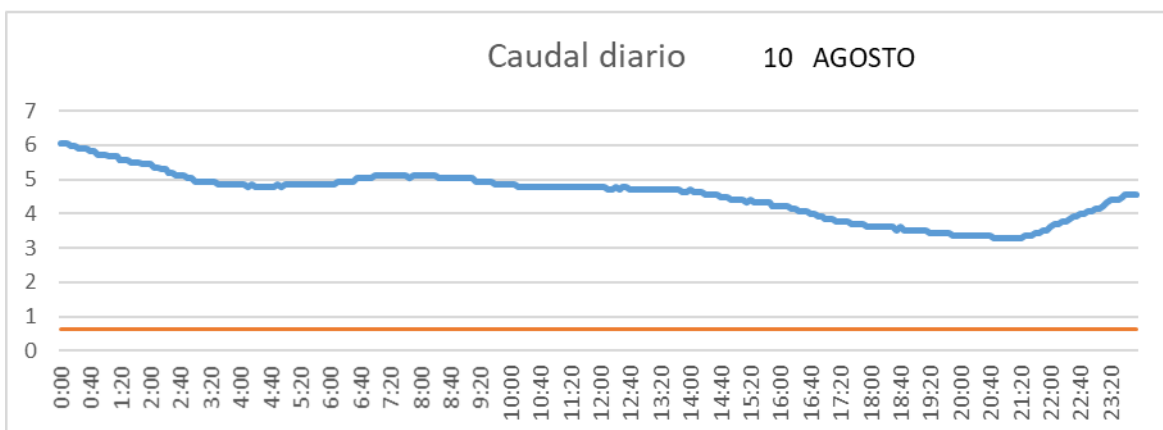
SALIDA TOBA



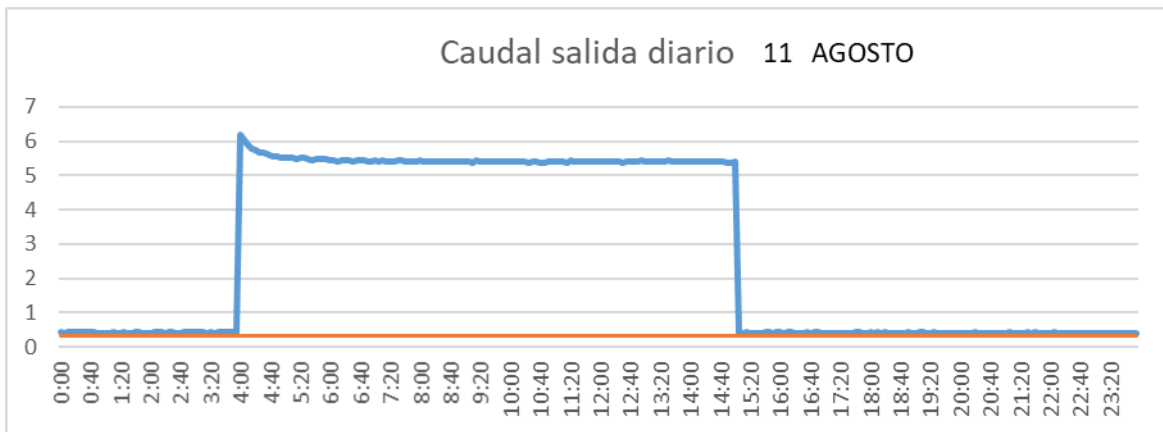
CUENCA



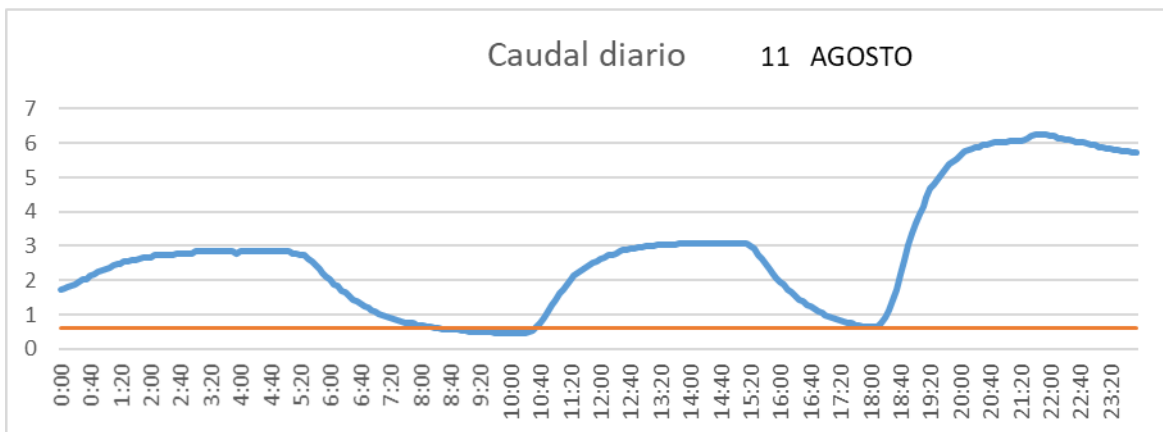
SAN LORENZO PARRILLA



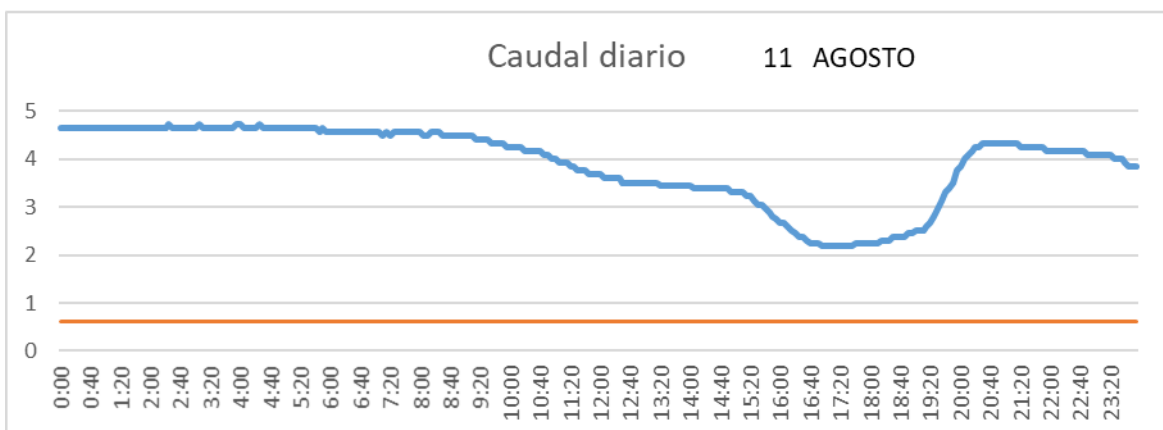
SALIDA TOBA



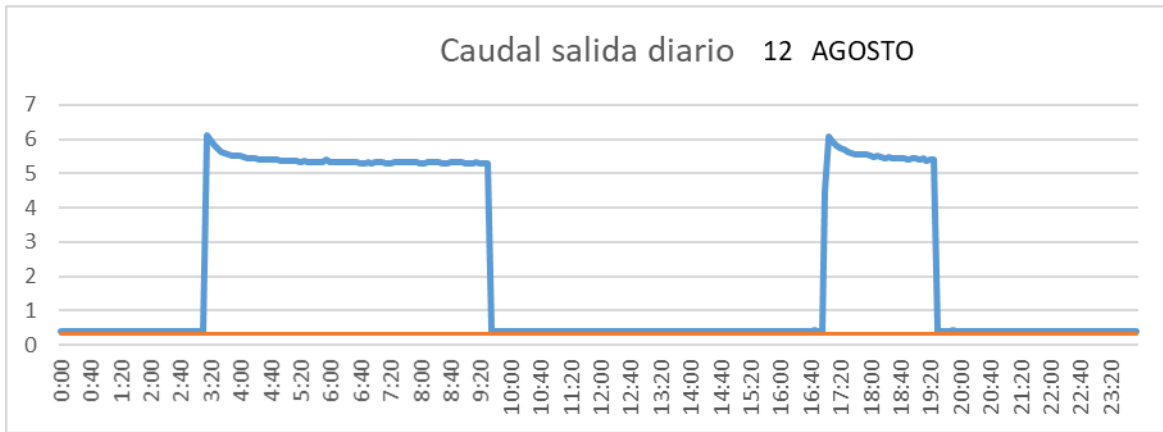
CUENCA



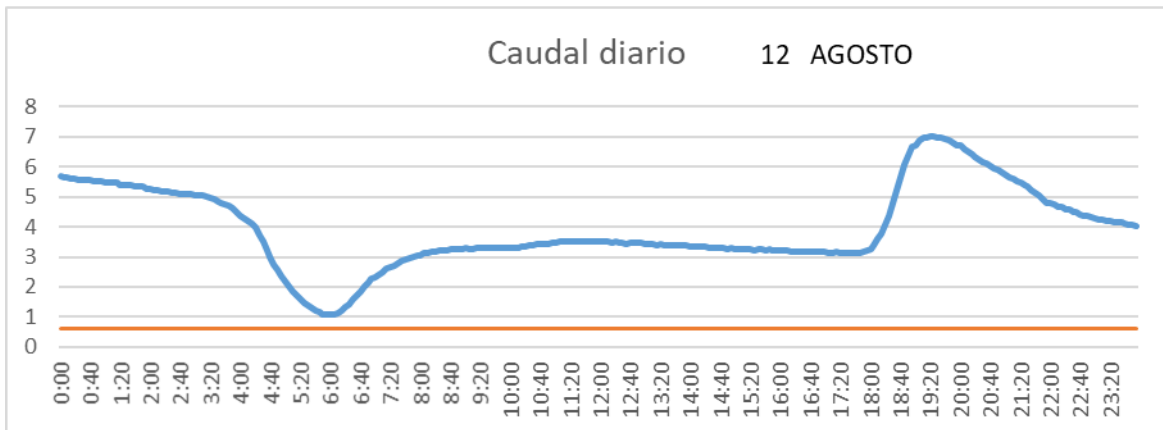
SAN LORENZO PARRILLA



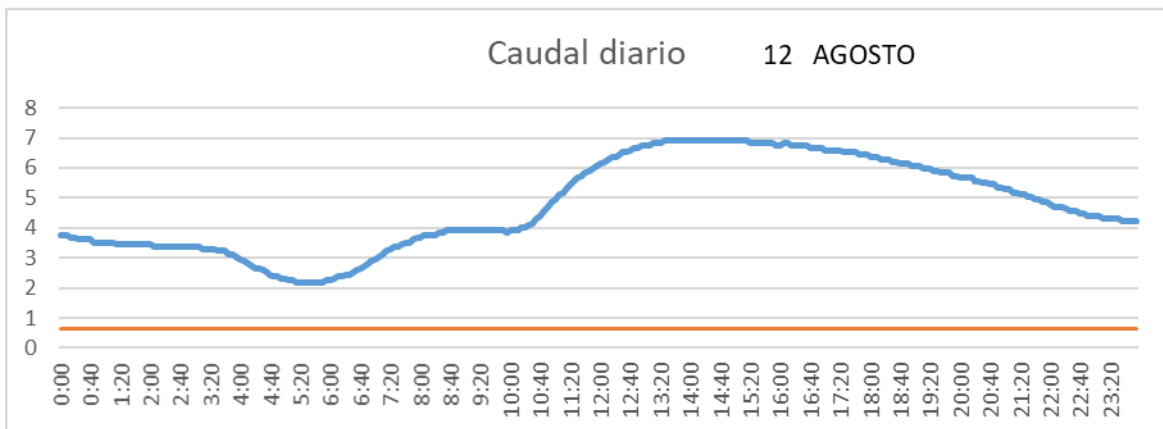
SALIDA TOBA



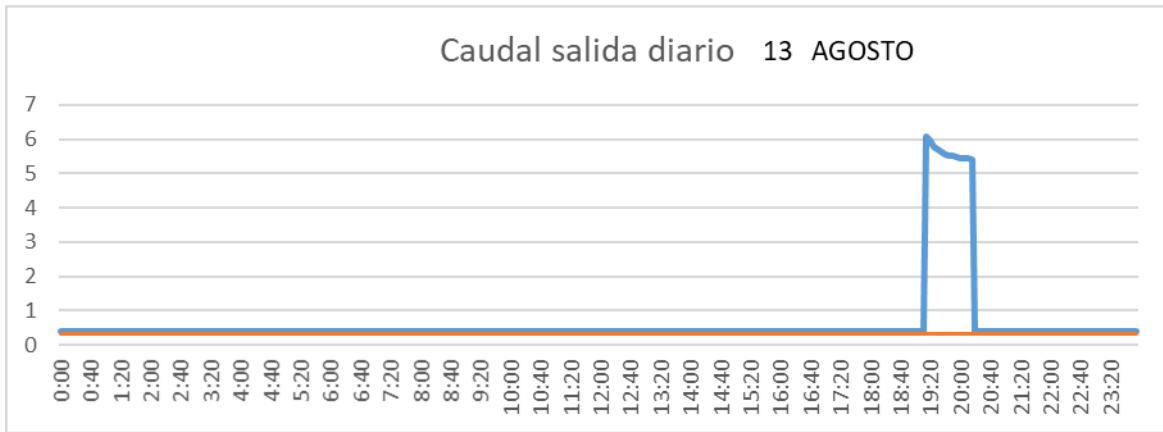
CUENCA



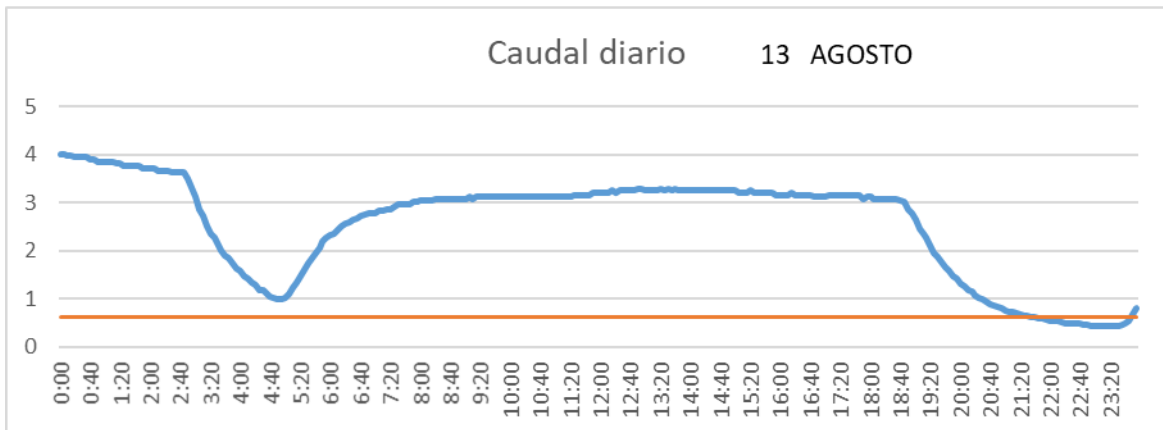
SAN LORENZO PARRILLA



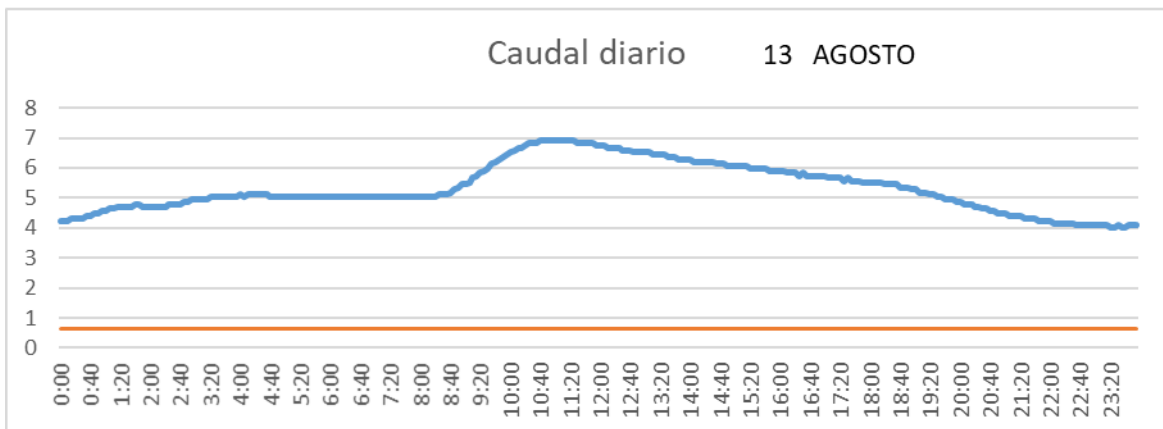
SALIDA TOBA



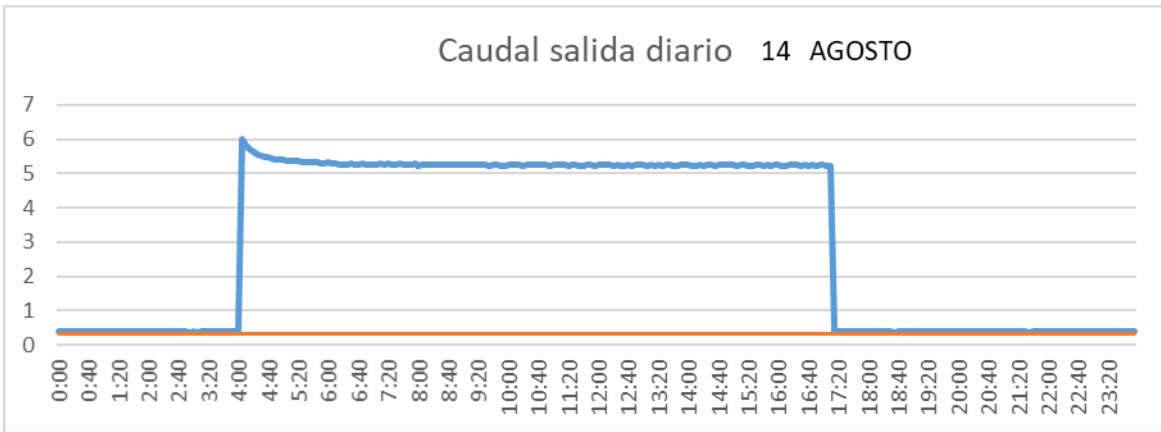
CUENCA



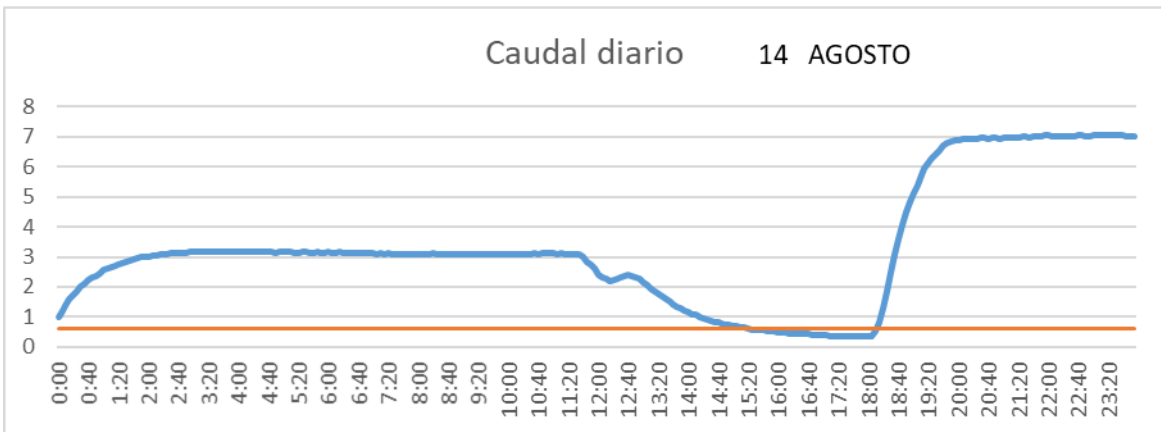
SAN LORENZO PARRILLA



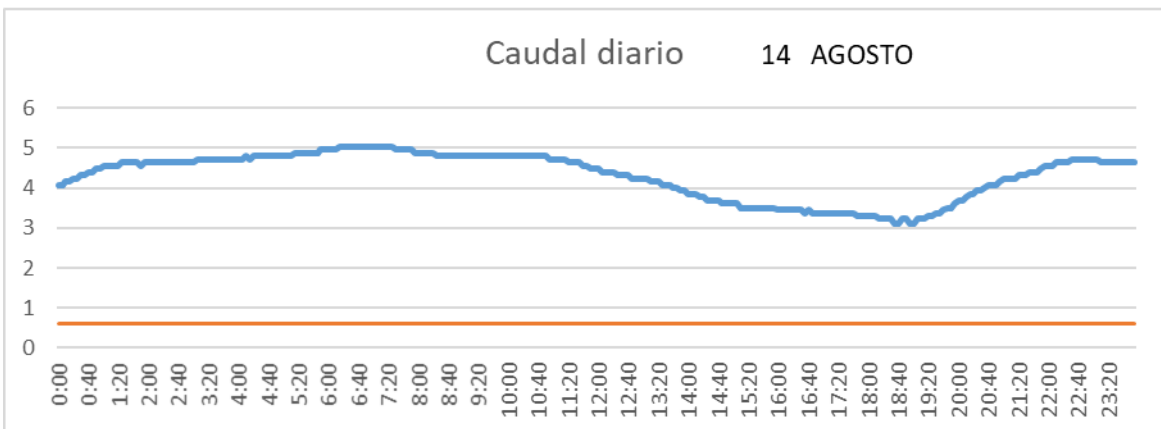
SALIDA TOBA



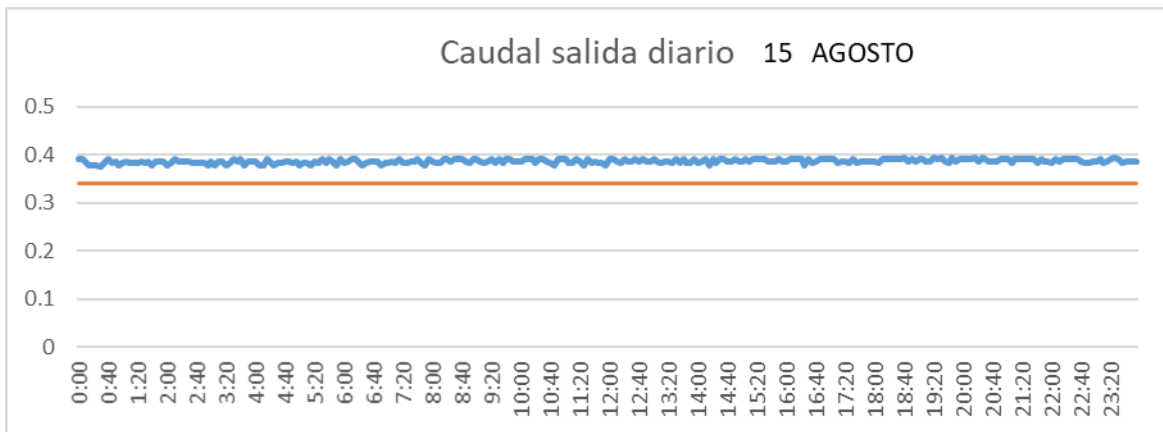
CUENCA



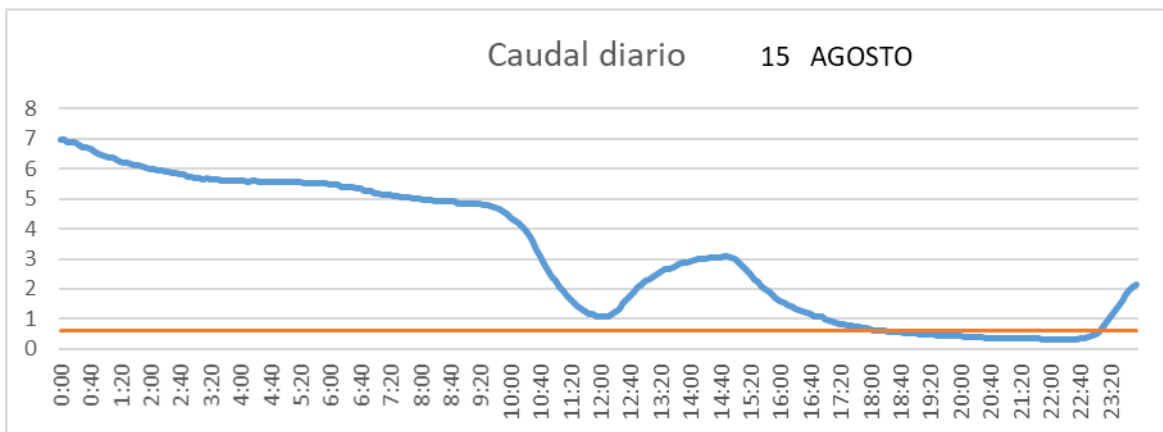
SAN LORENZO PARRILLA



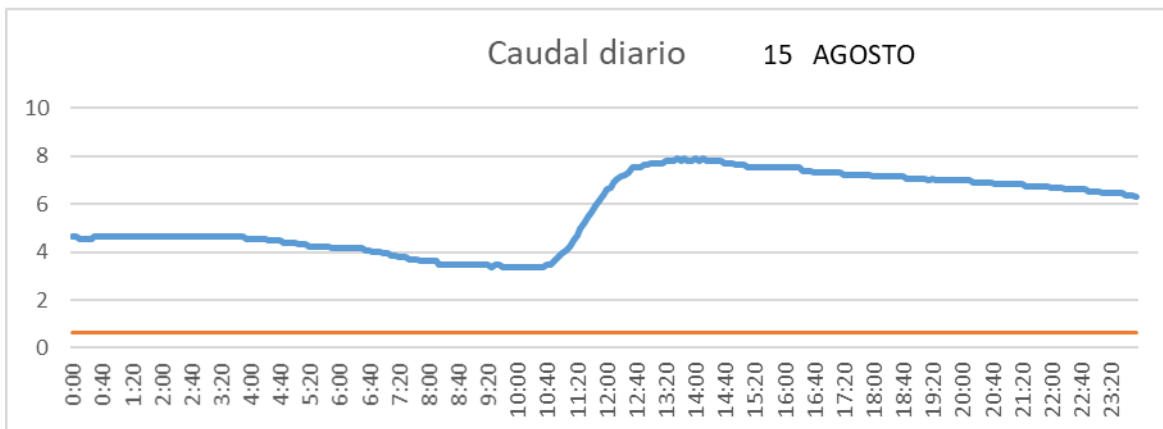
SALIDA TOBA



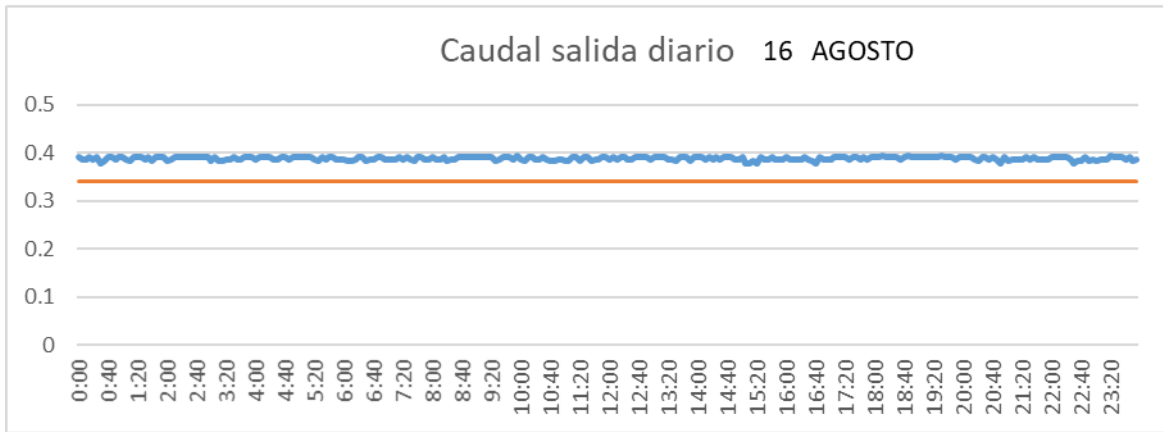
CUENCA



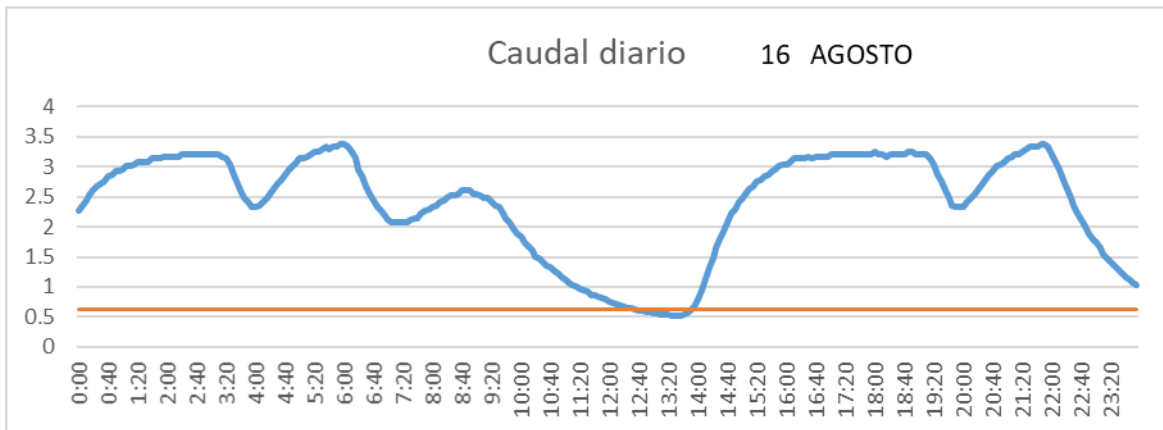
SAN LORENZO PARRILLA



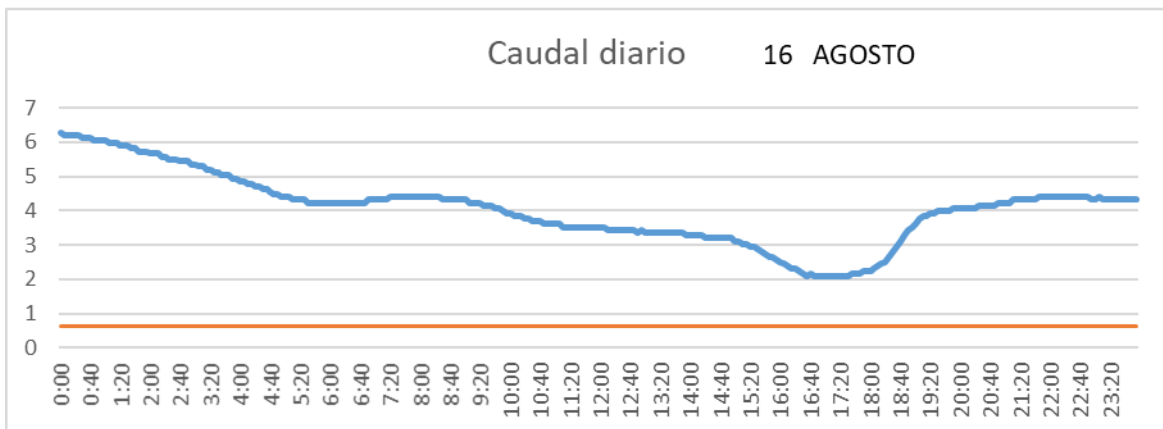
SALIDA TOBA



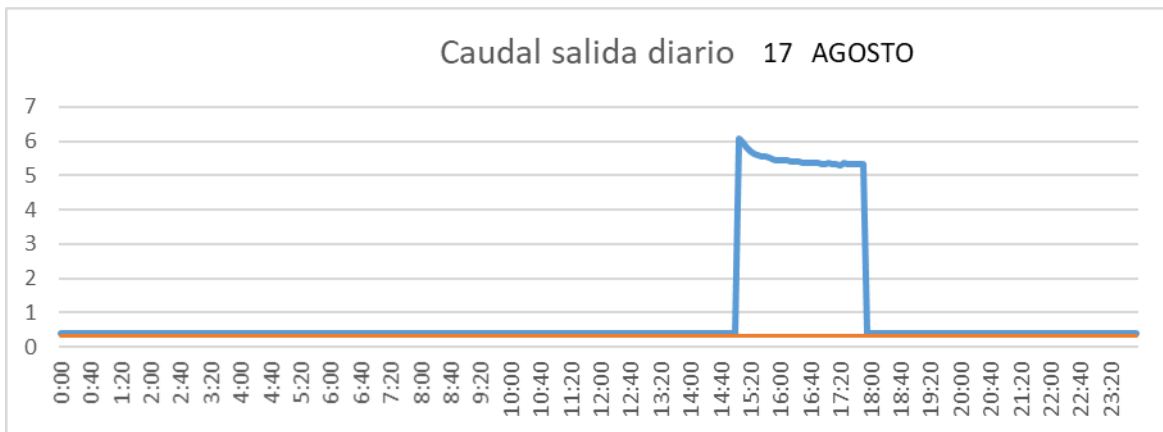
CUENCA



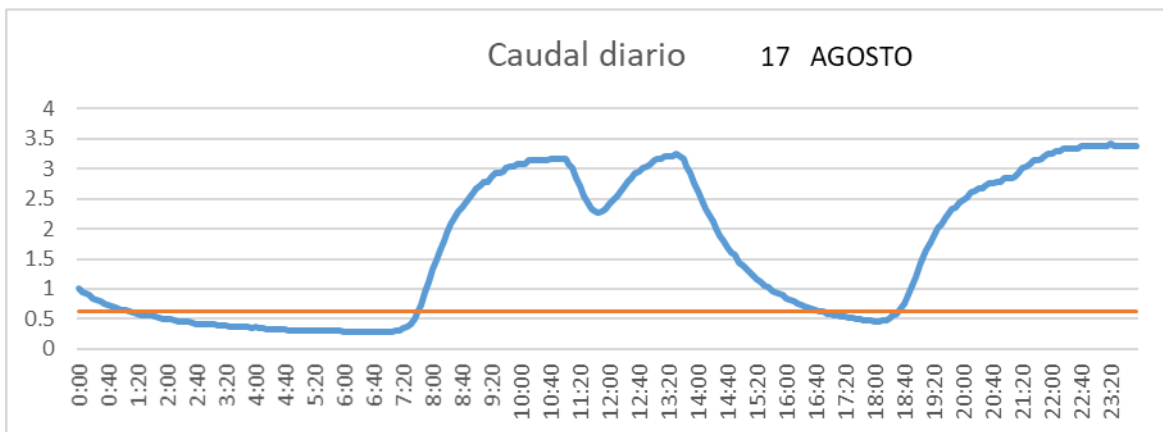
SAN LORENZO PARRILLA



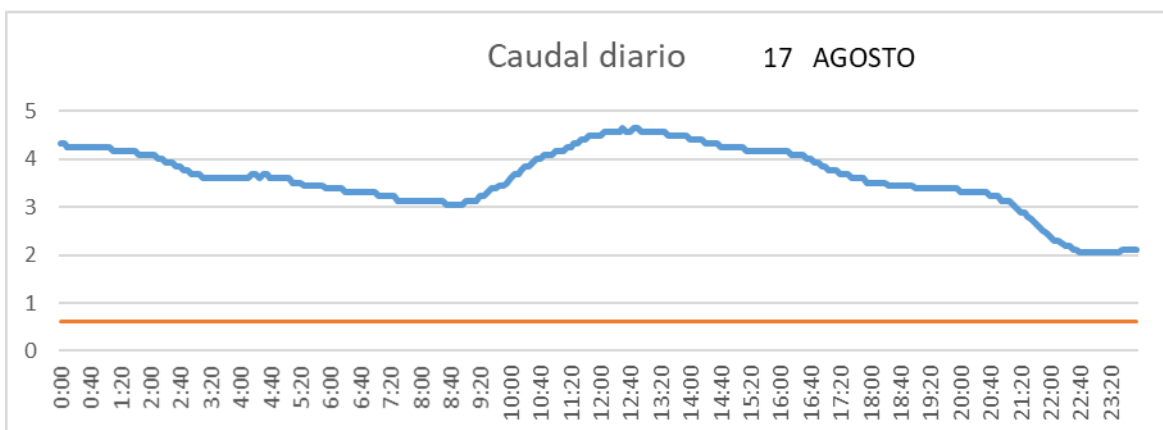
SALIDA TOBA



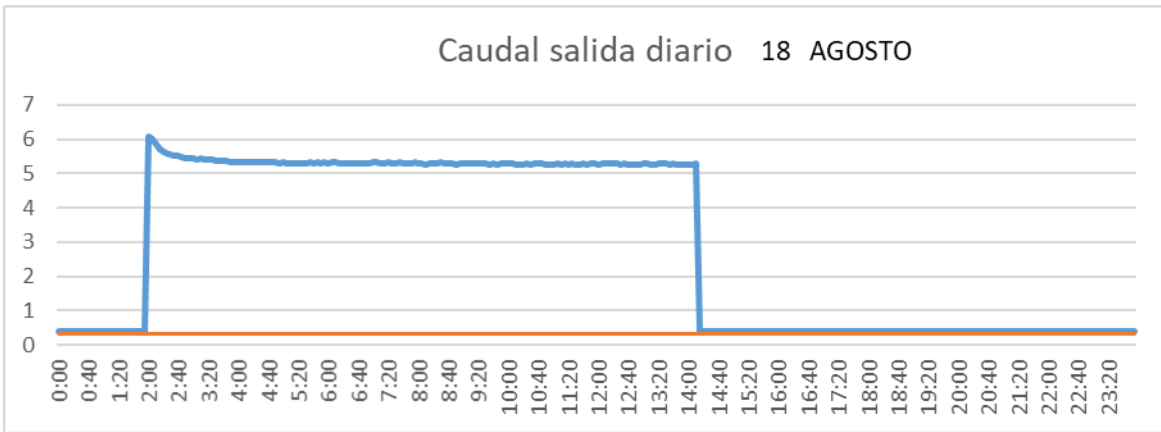
CUENCA



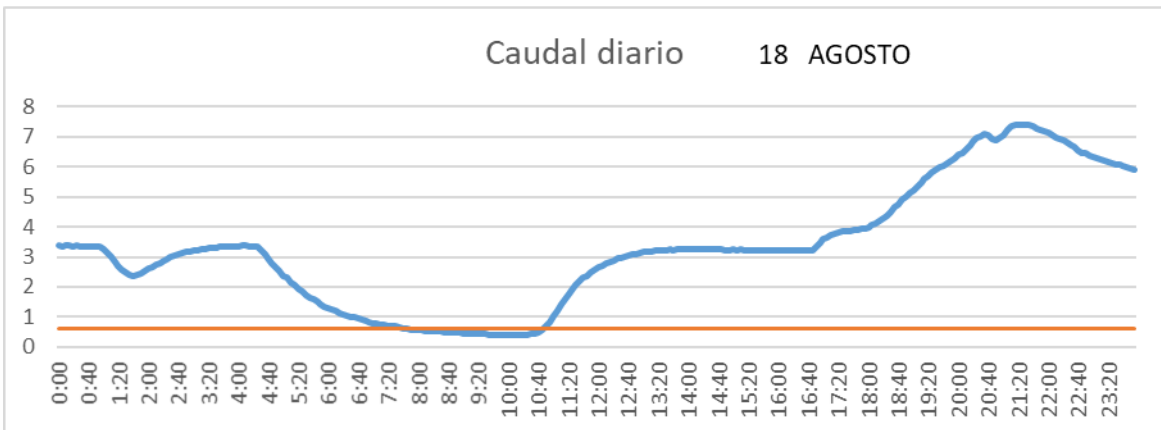
SAN LORENZO PARRILLA



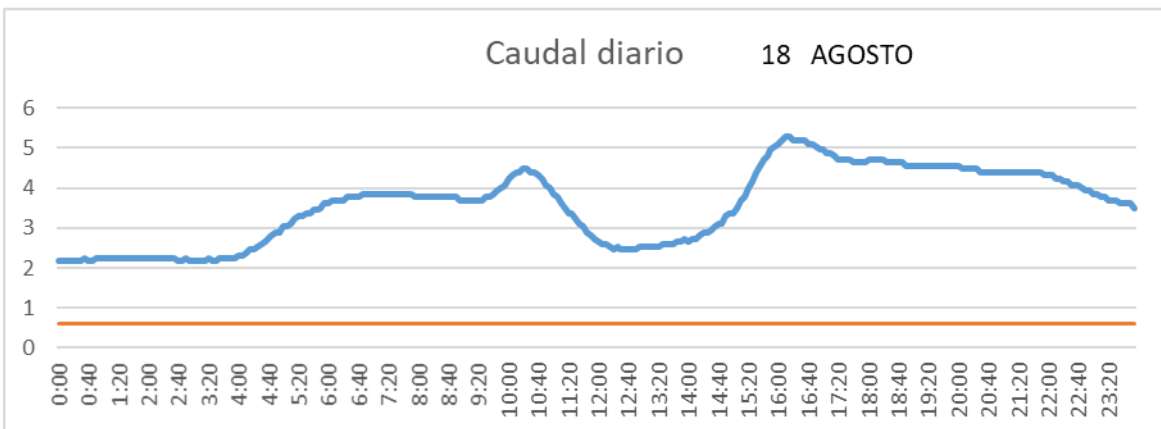
SALIDA TOBA



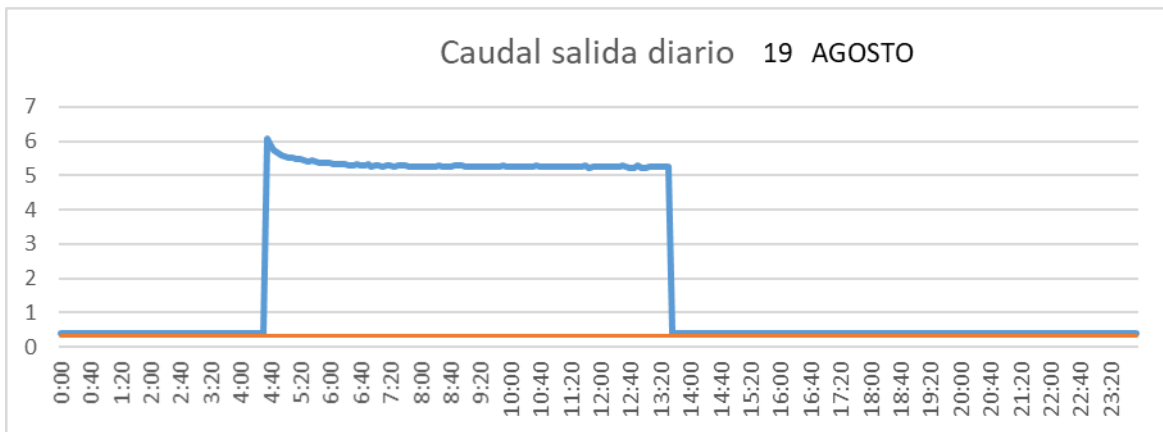
CUENCA



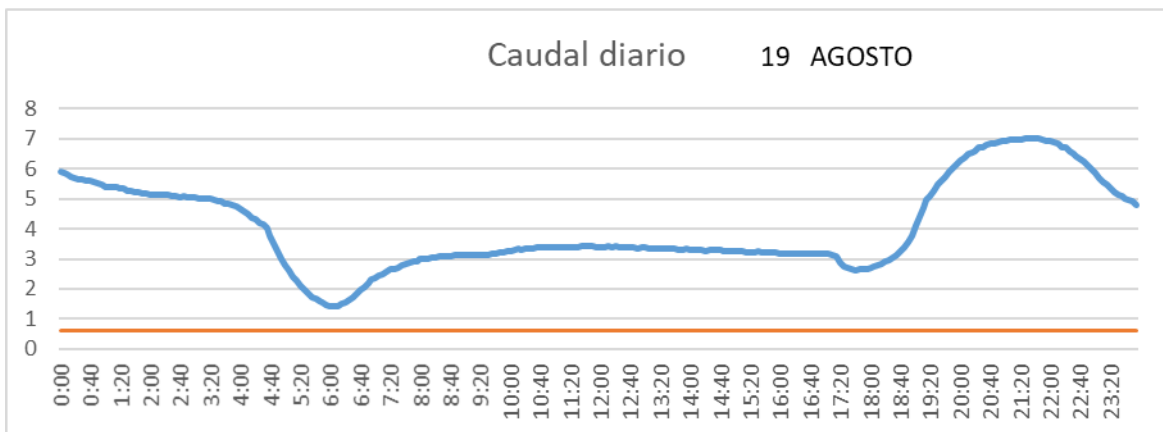
SAN LORENZO PARRILLA



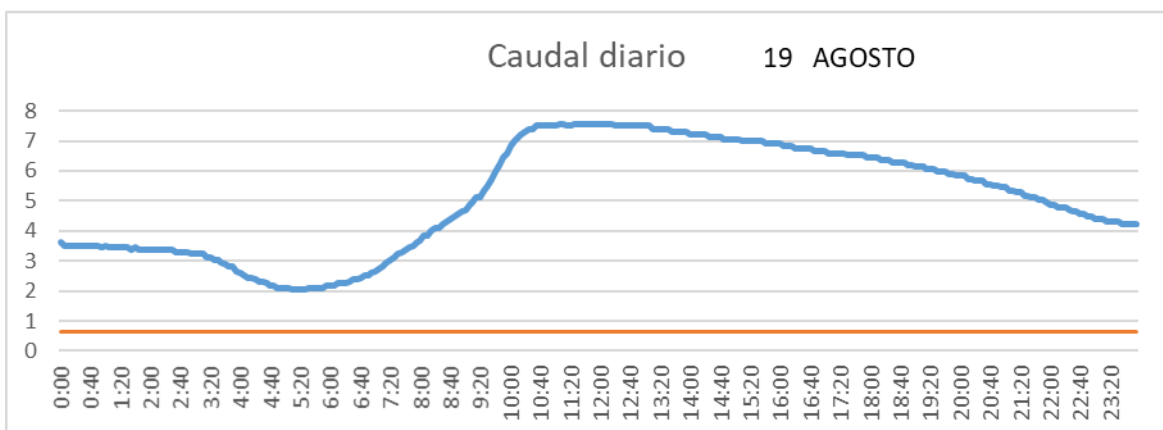
SALIDA TOBA



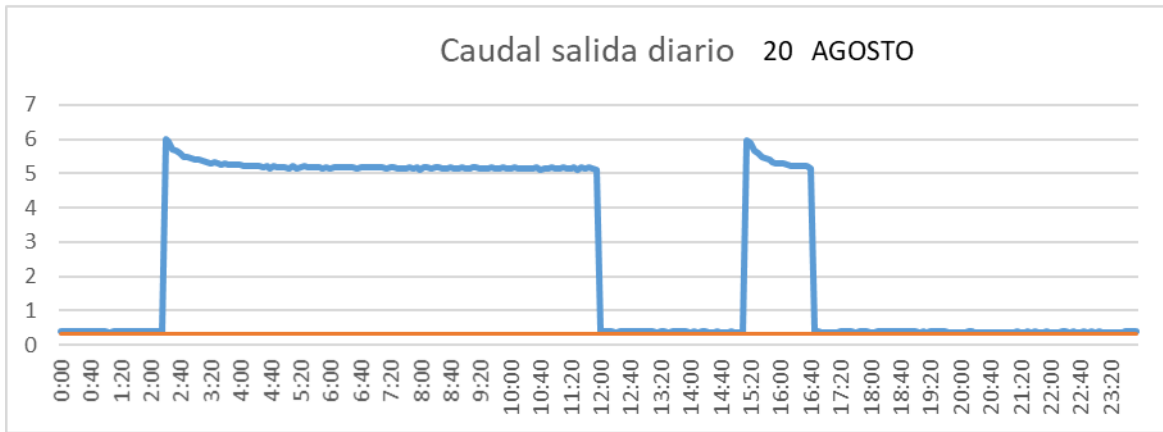
CUENCA



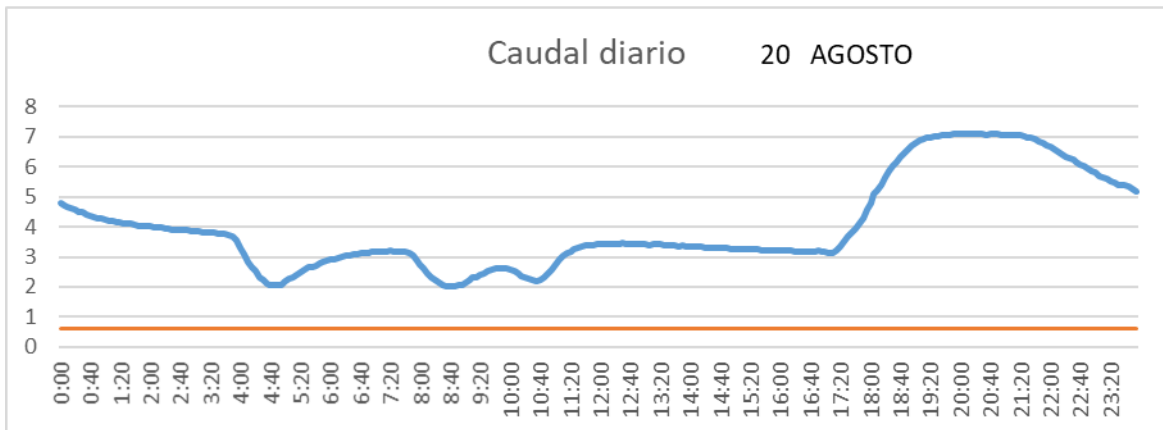
SAN LORENZO PARRILLA



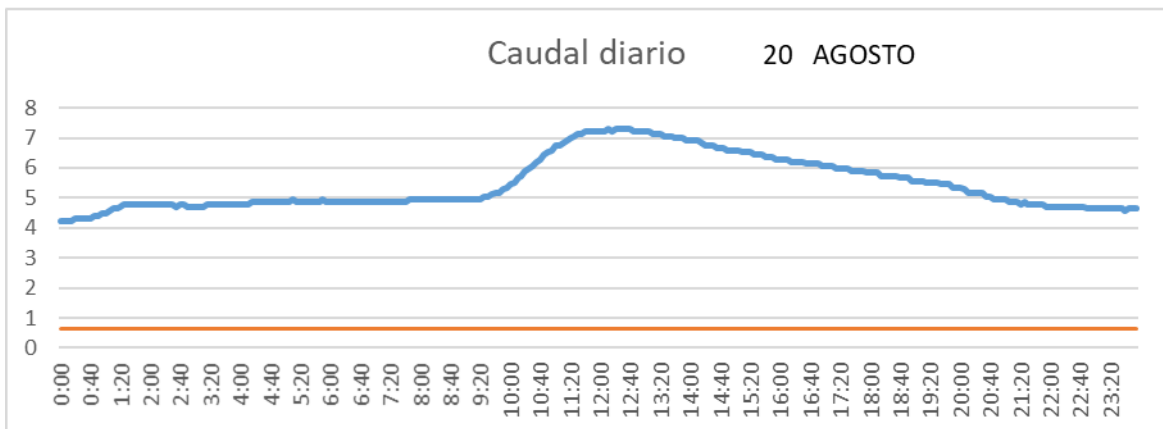
SALIDA TOBA



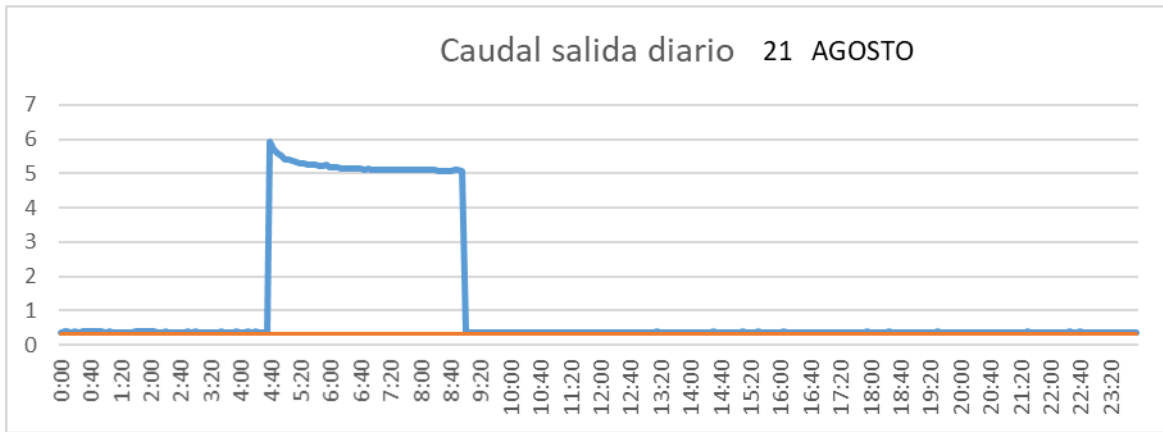
CUENCA



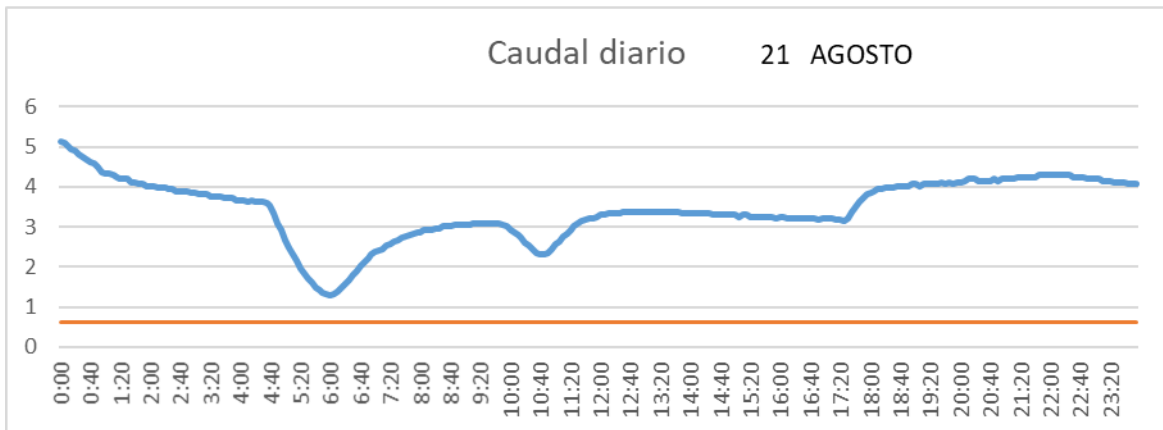
SAN LORENZO PARRILLA



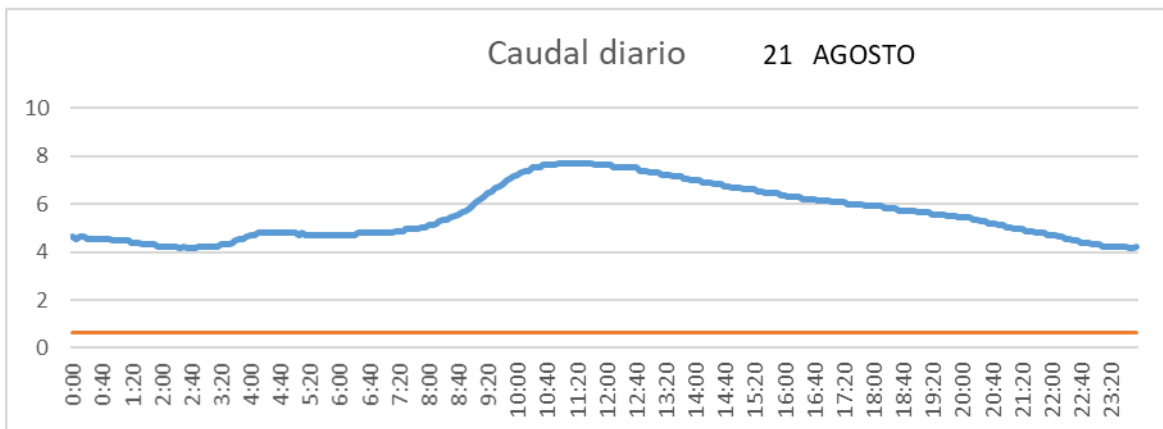
SALIDA TOBA



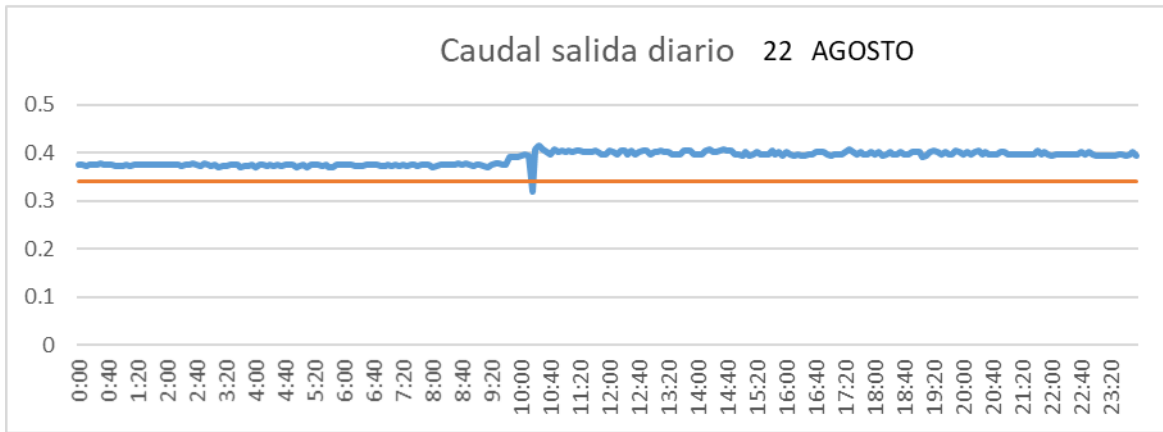
CUENCA



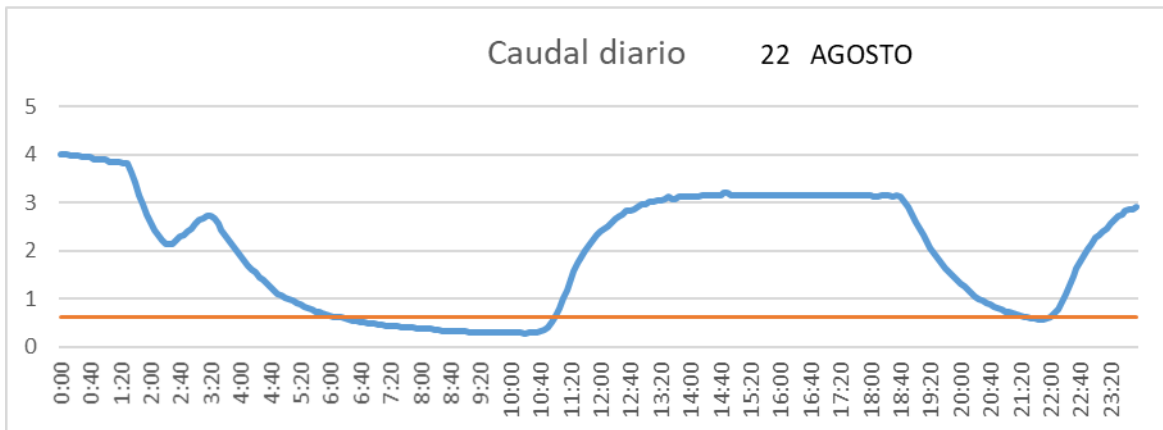
SAN LORENZO PARRILLA



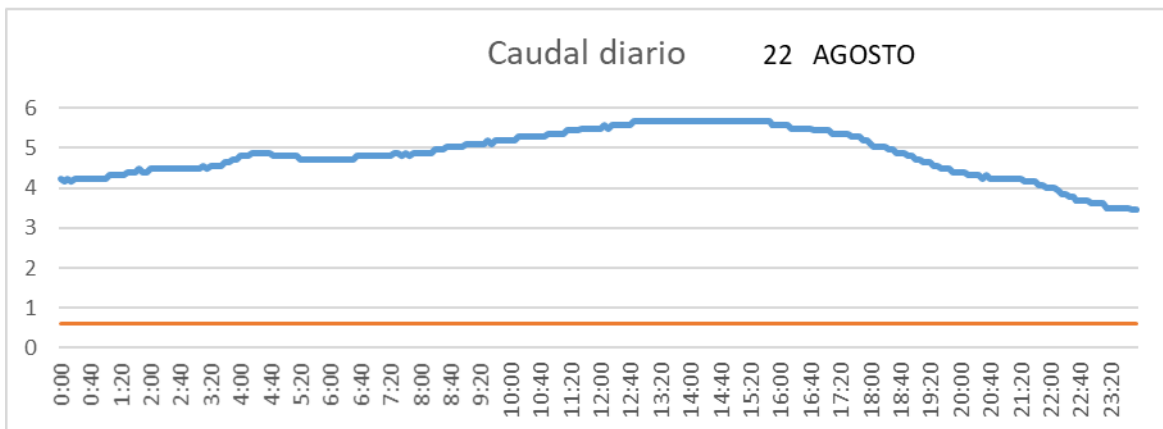
SALIDA TOBA



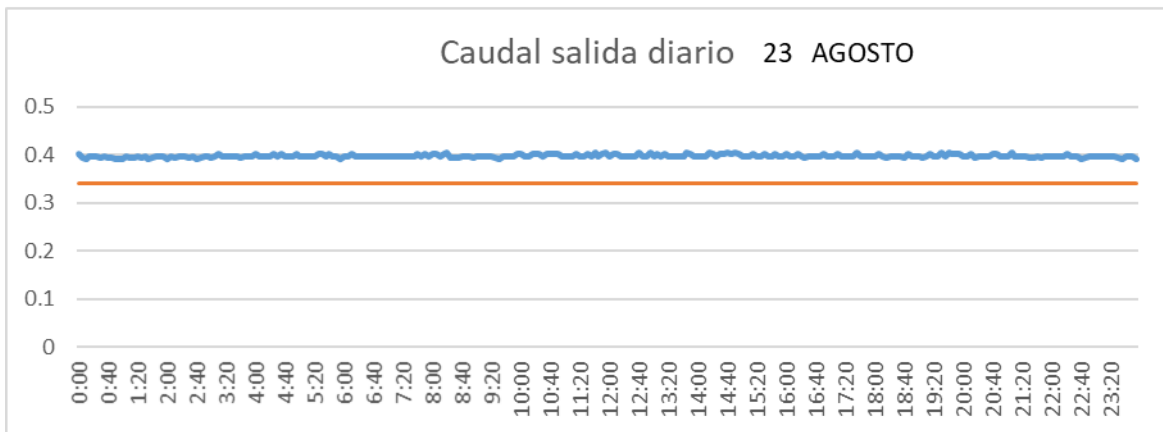
CUENCA



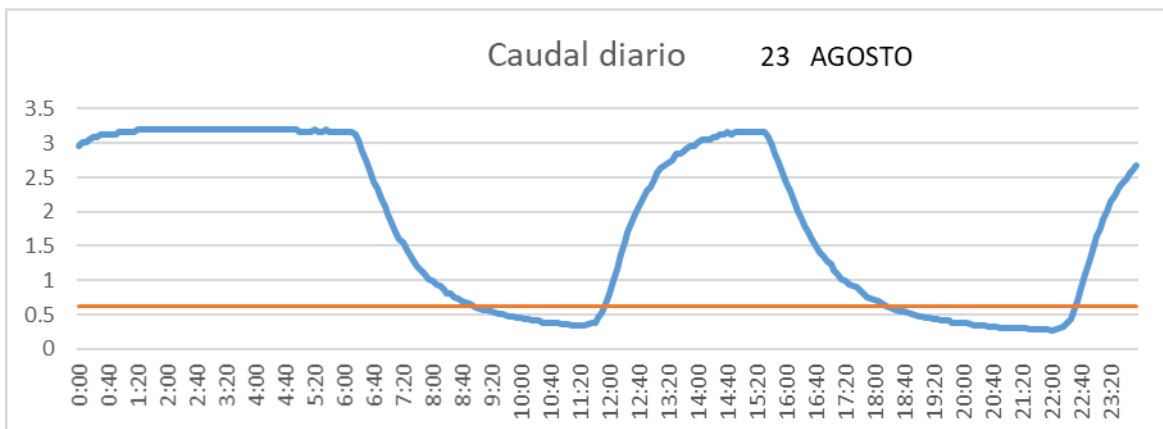
SAN LORENZO PARRILLA



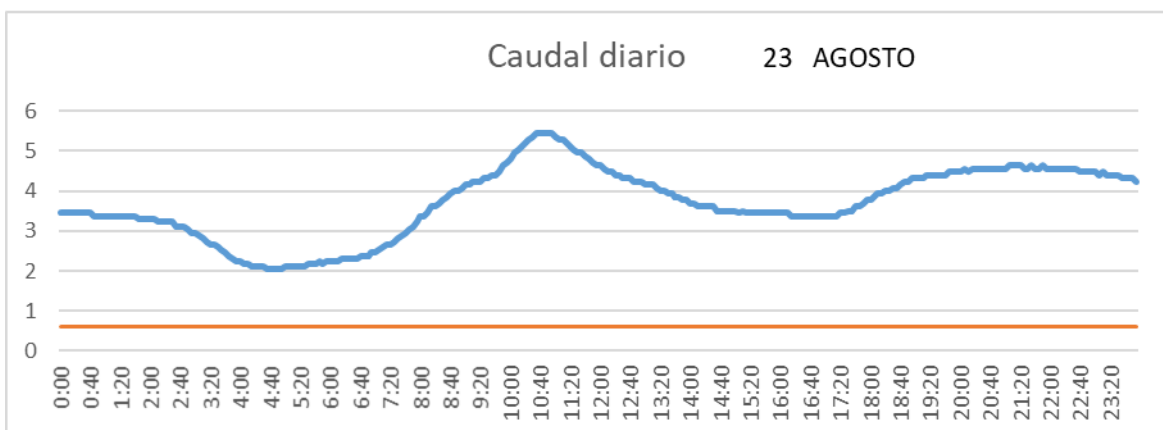
SALIDA TOBA



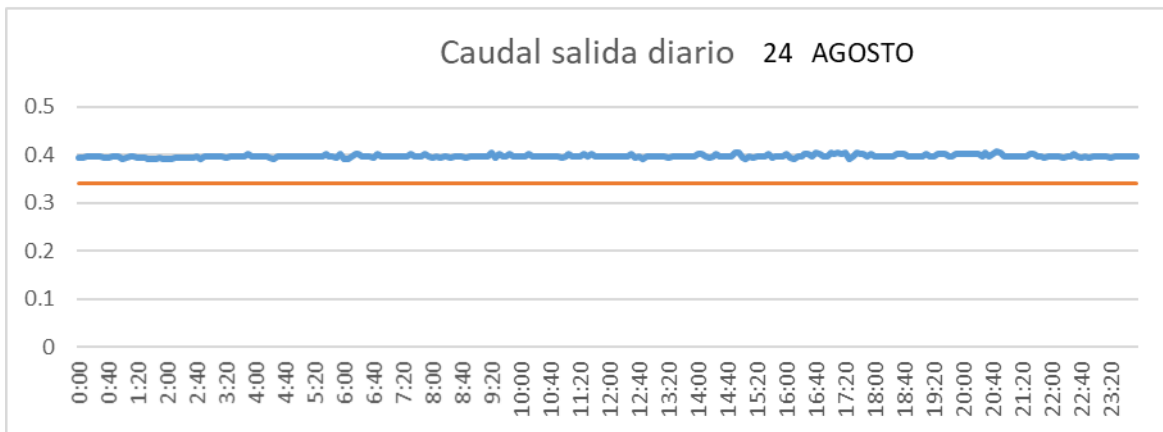
CUENCA



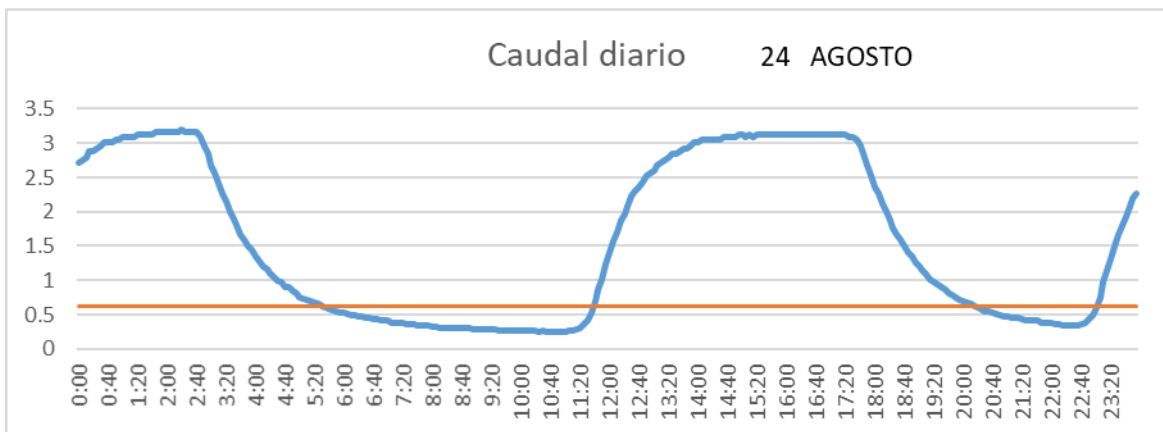
SAN LORENZO PARRILLA



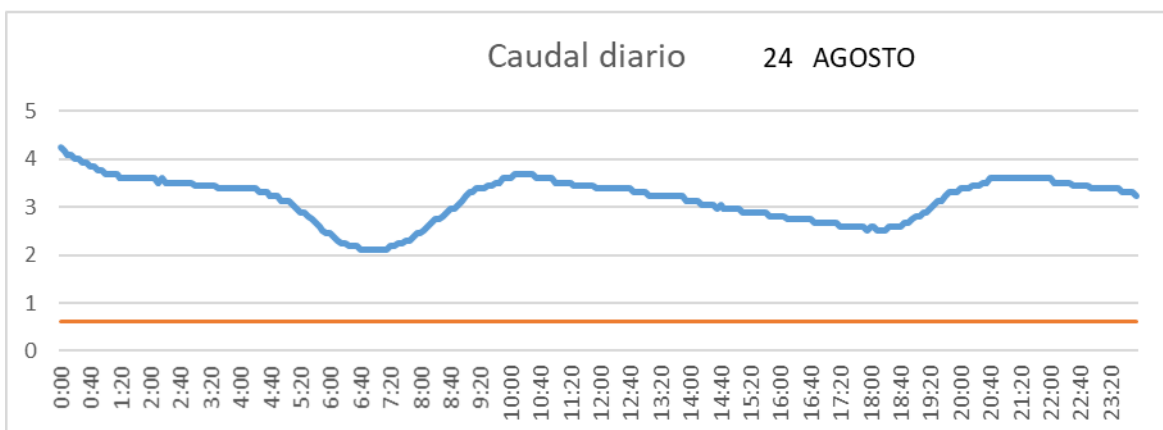
SALIDA TOBA



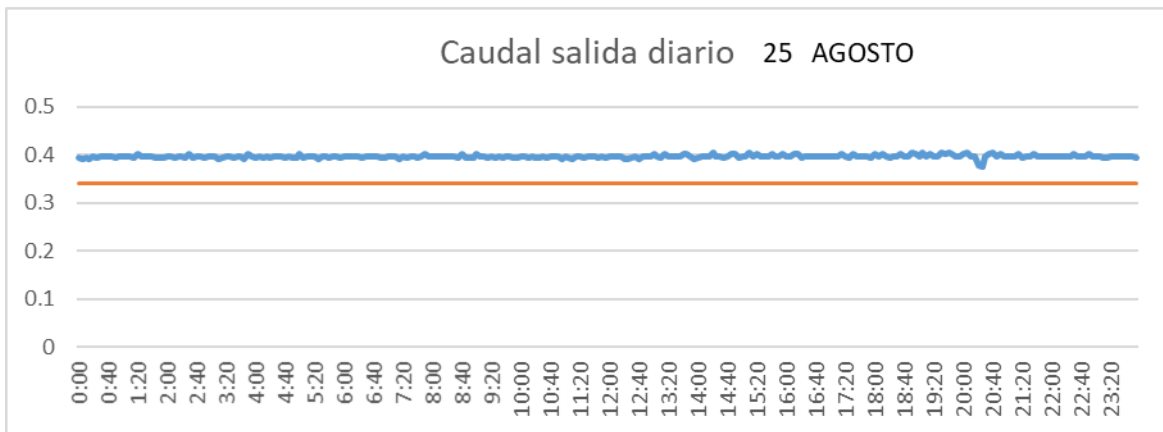
CUENCA



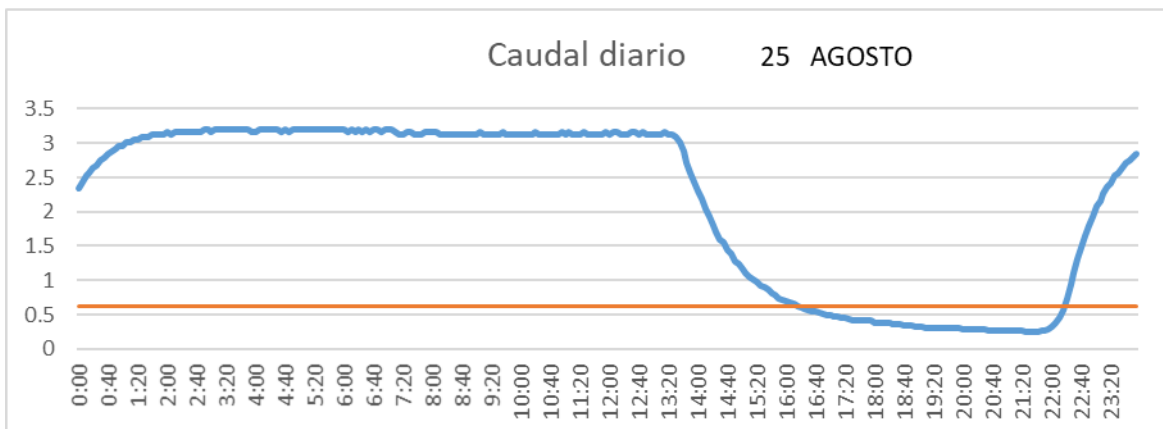
SAN LORENZO PARRILLA



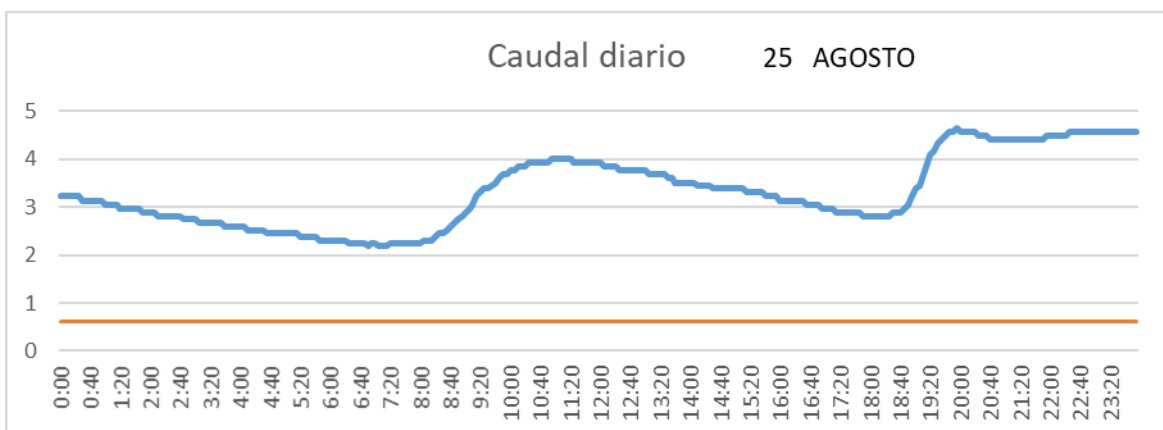
SALIDA TOBA



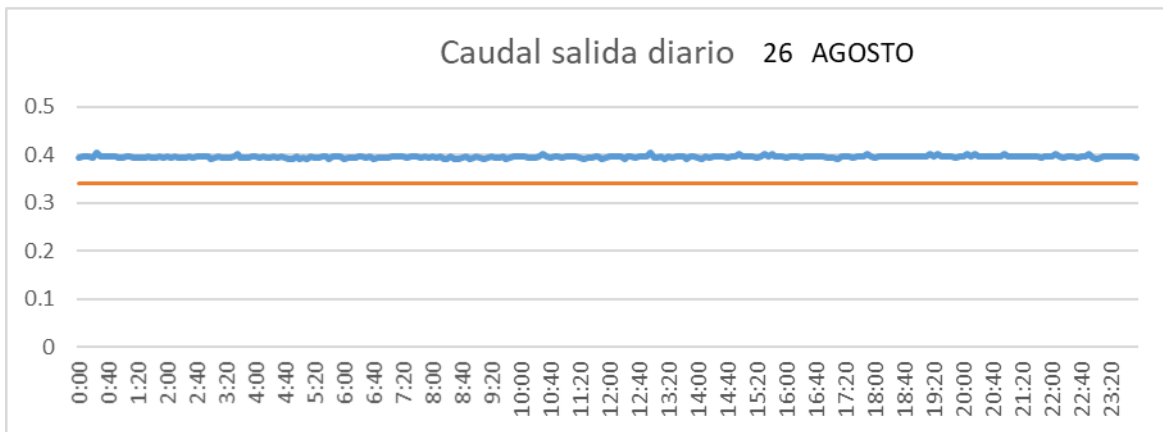
CUENCA



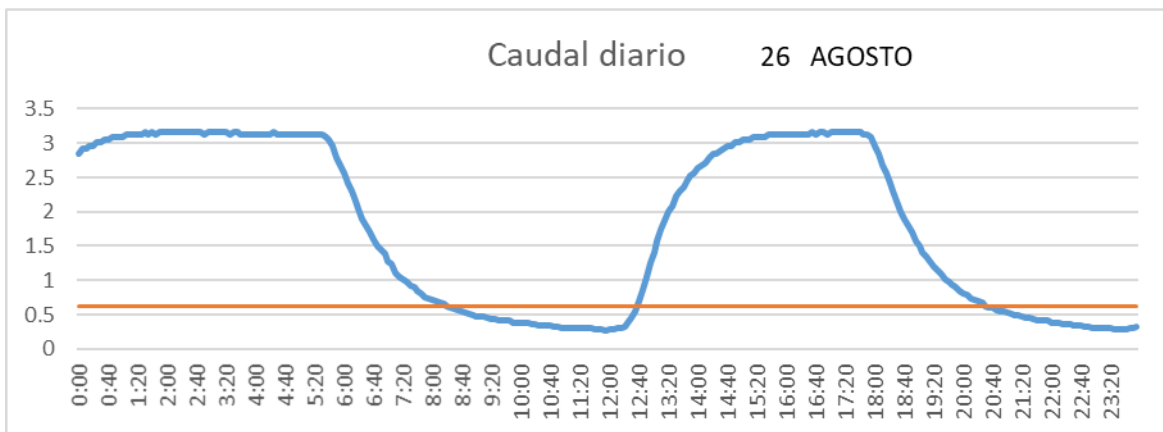
SAN LORENZO PARRILLA



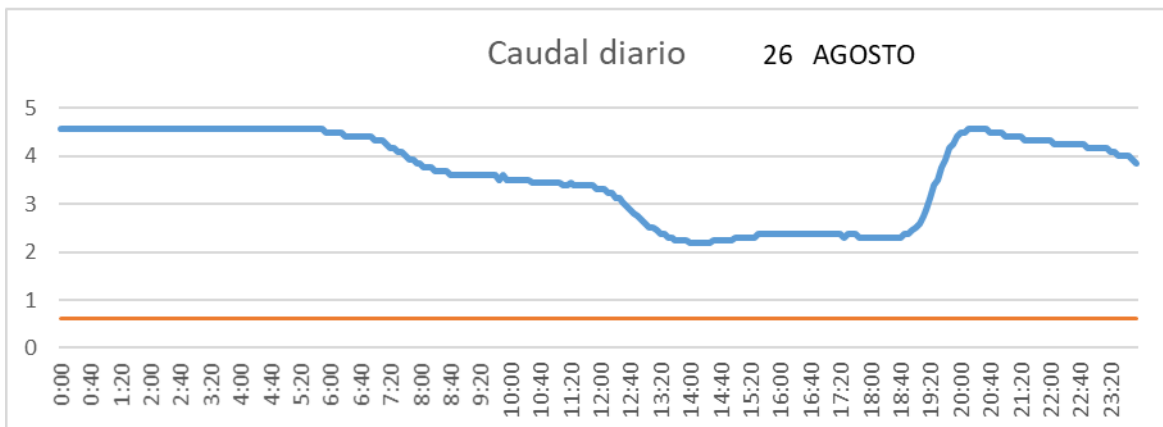
SALIDA TOBA



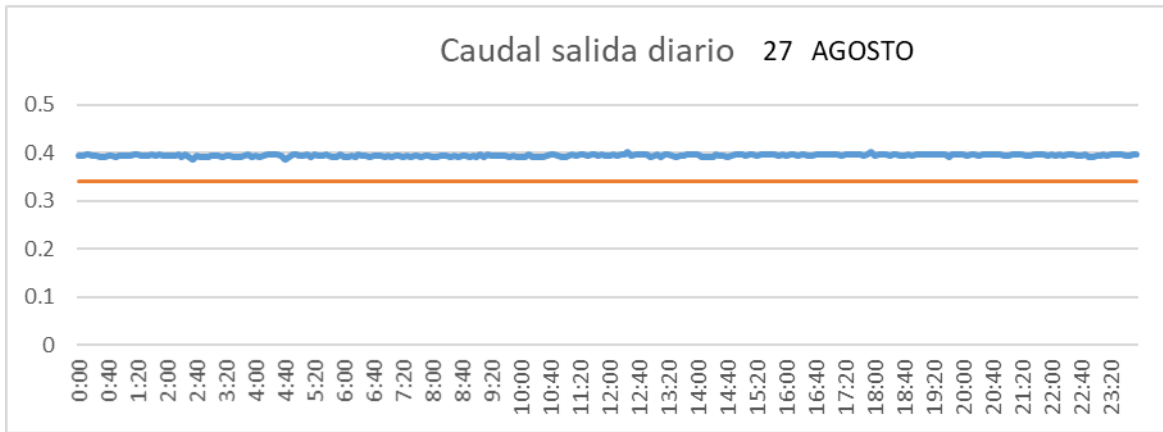
CUENCA



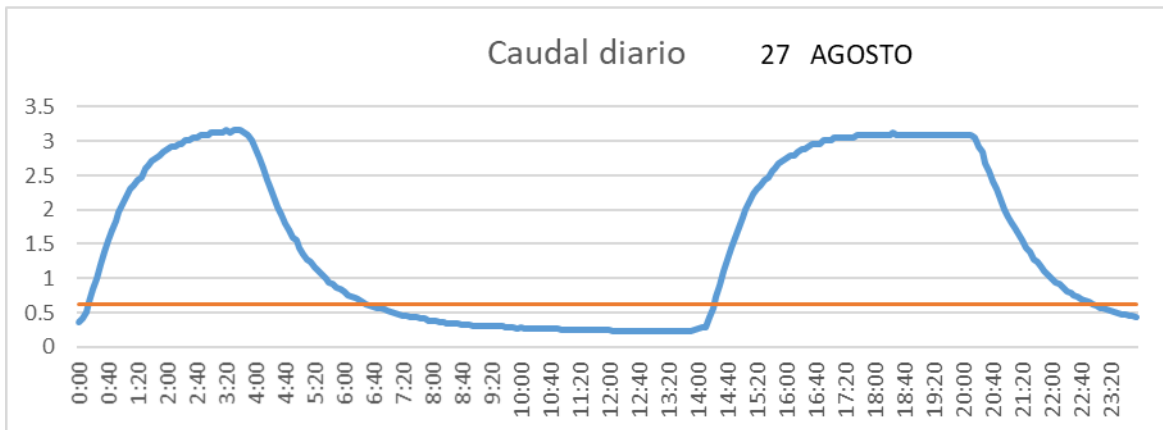
SAN LORENZO PARRILLA



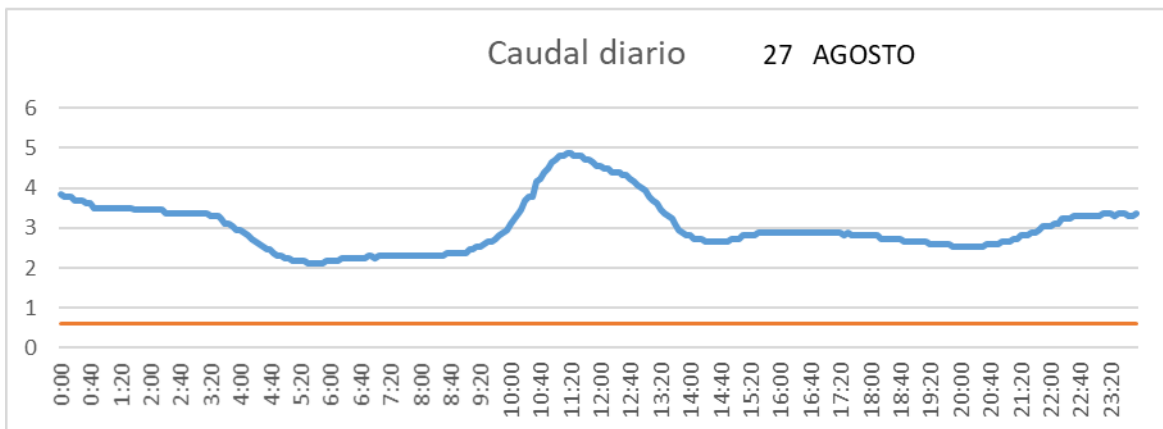
SALIDA TOBA



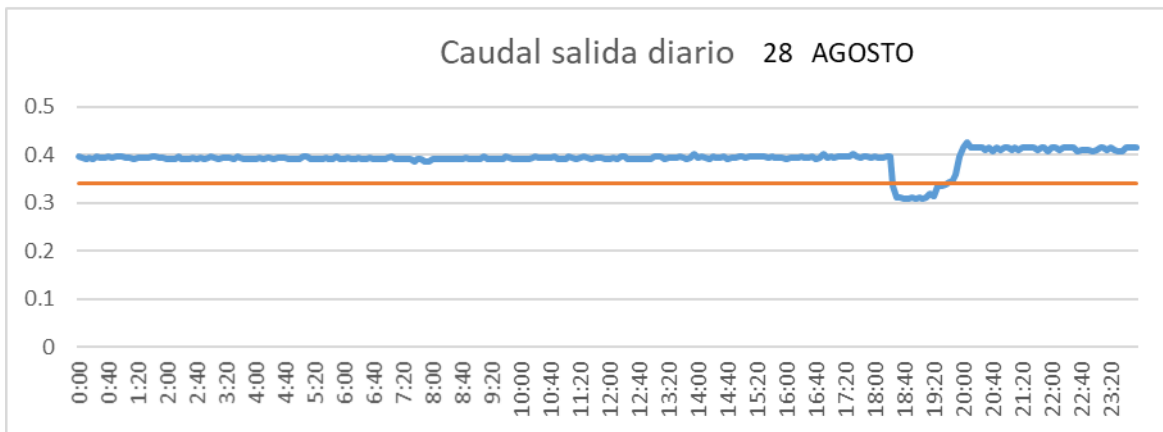
CUENCA



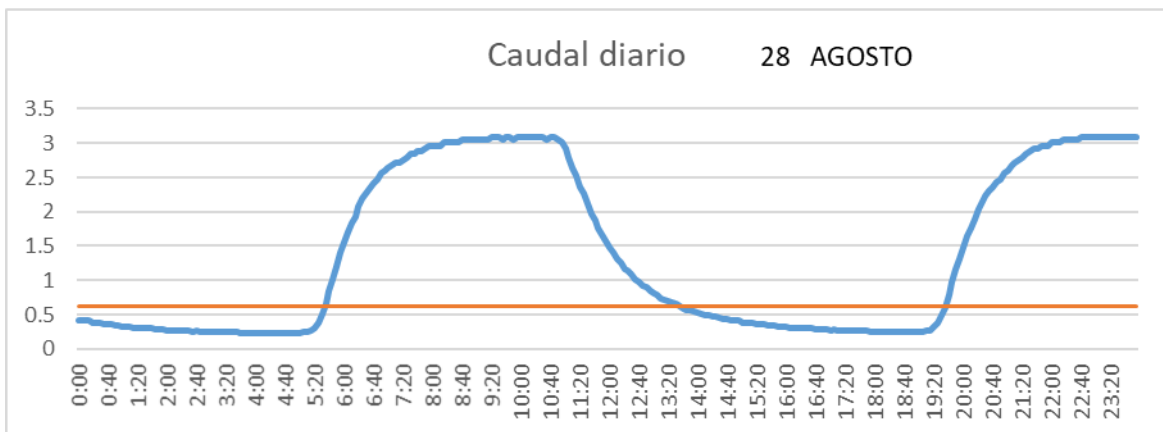
SAN LORENZO PARRILLA



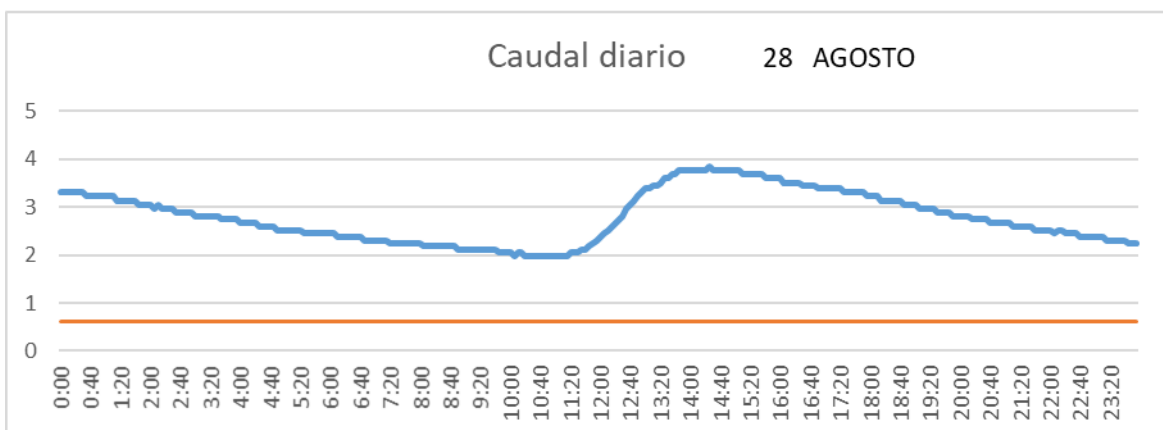
SALIDA TOBA



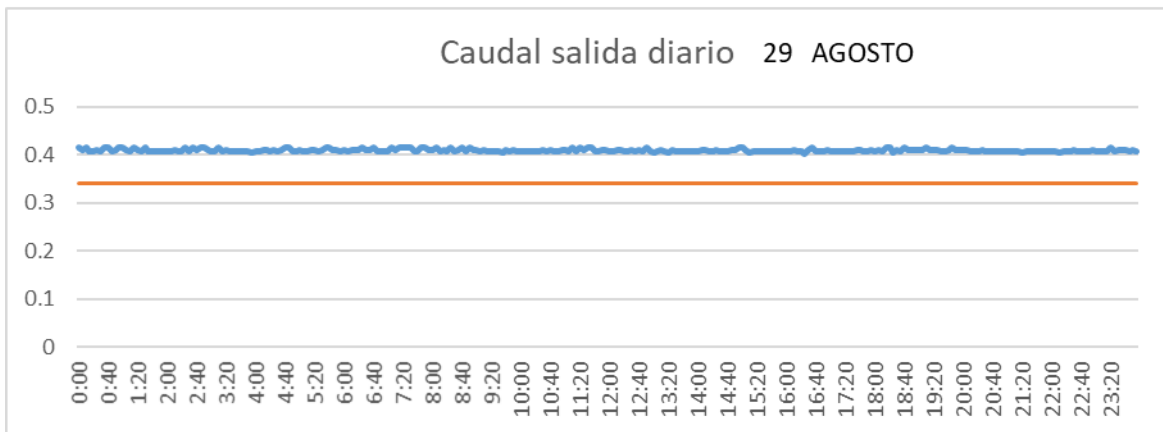
CUENCA



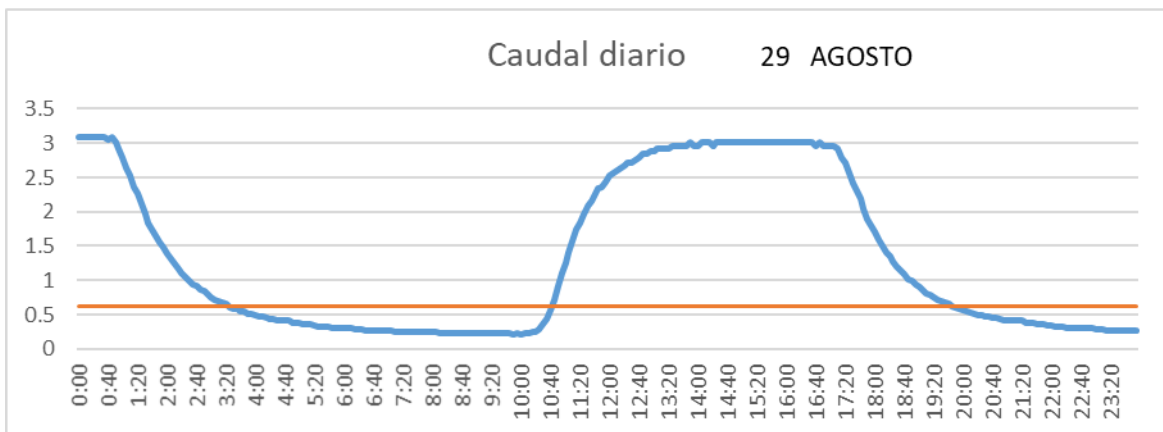
SAN LORENZO PARRILLA



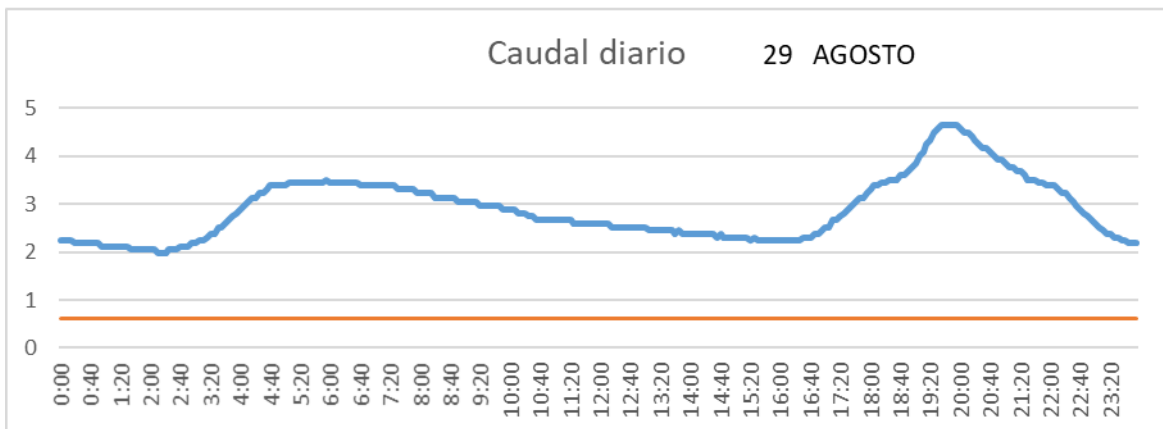
SALIDA TOBA



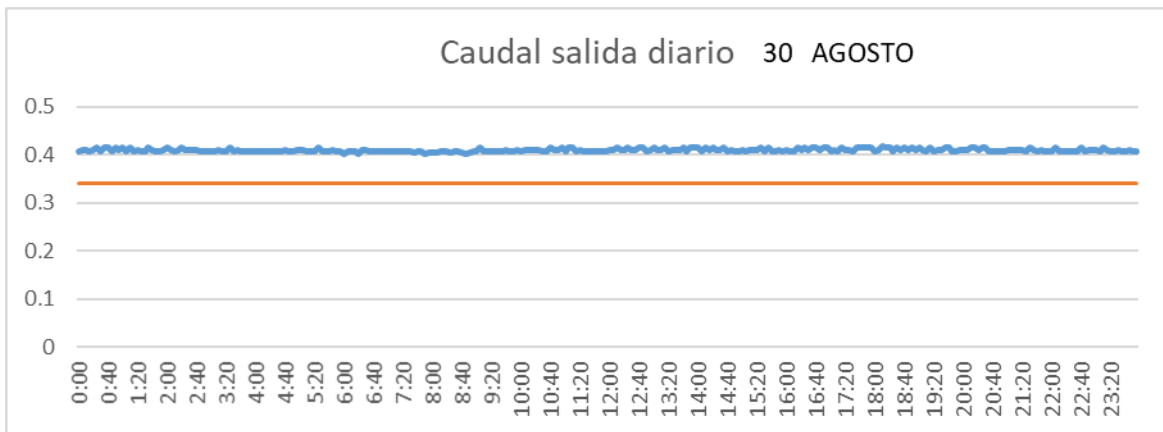
CUENCA



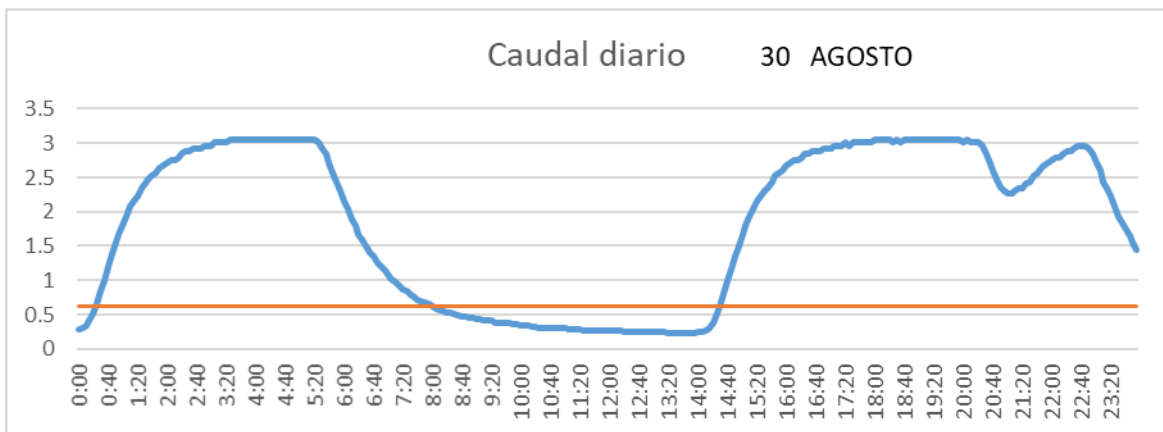
SAN LORENZO PARRILLA



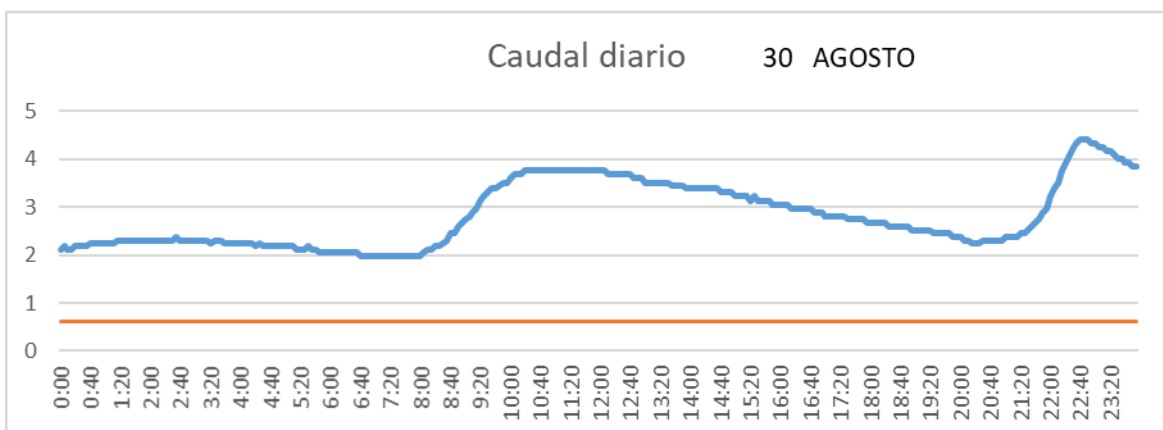
SALIDA TOBA



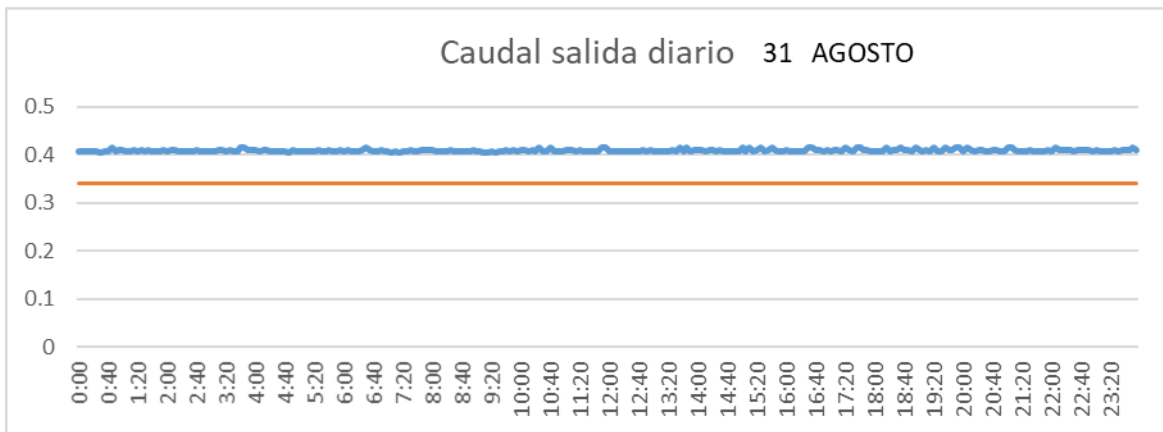
CUENCA



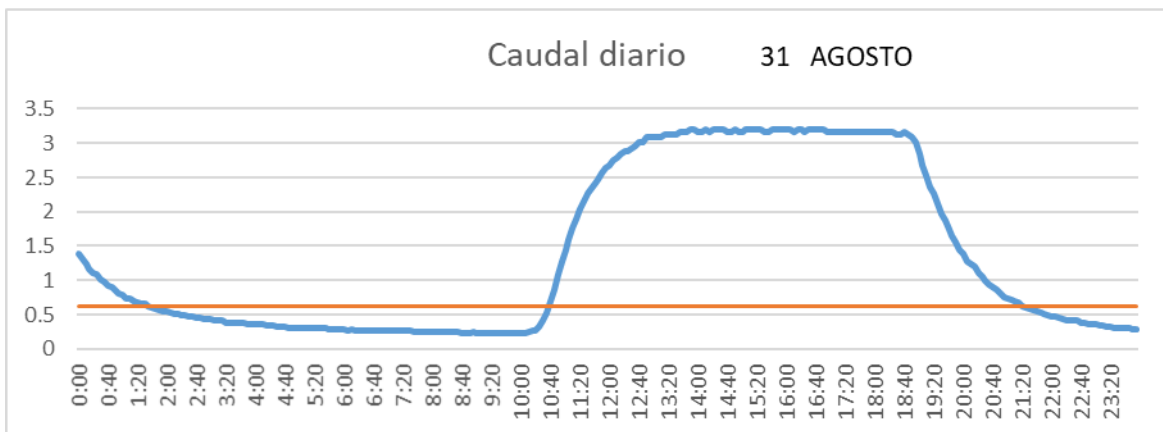
SAN LORENZO PARRILLA



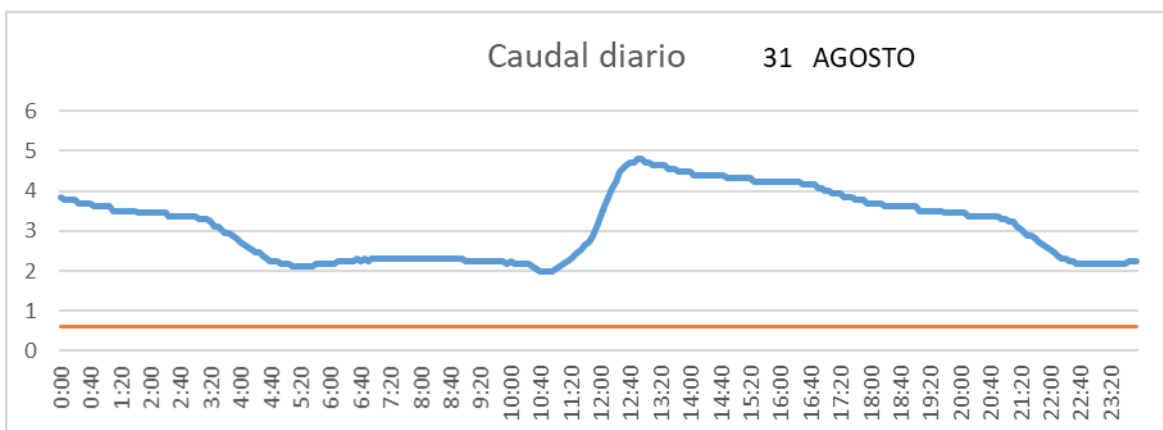
SALIDA TOBA



CUENCA

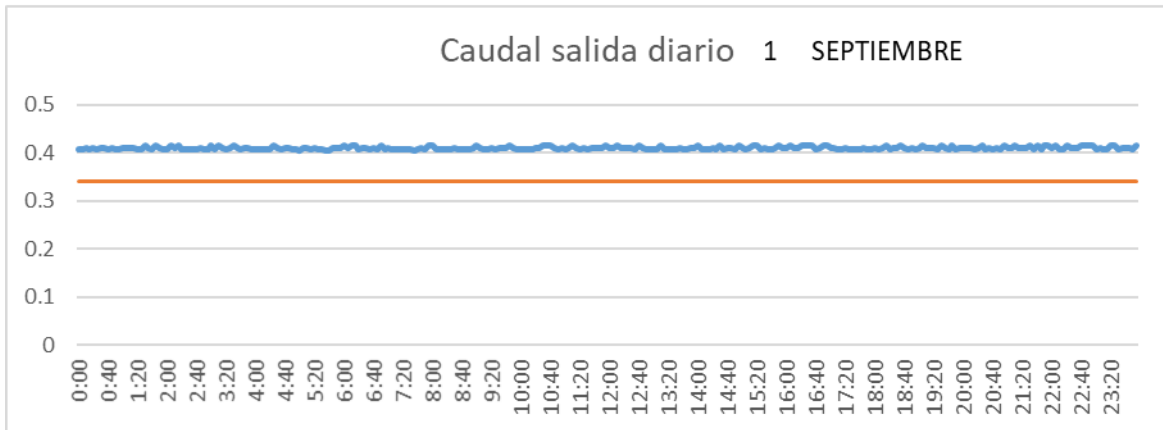


SAN LORENZO PARRILLA

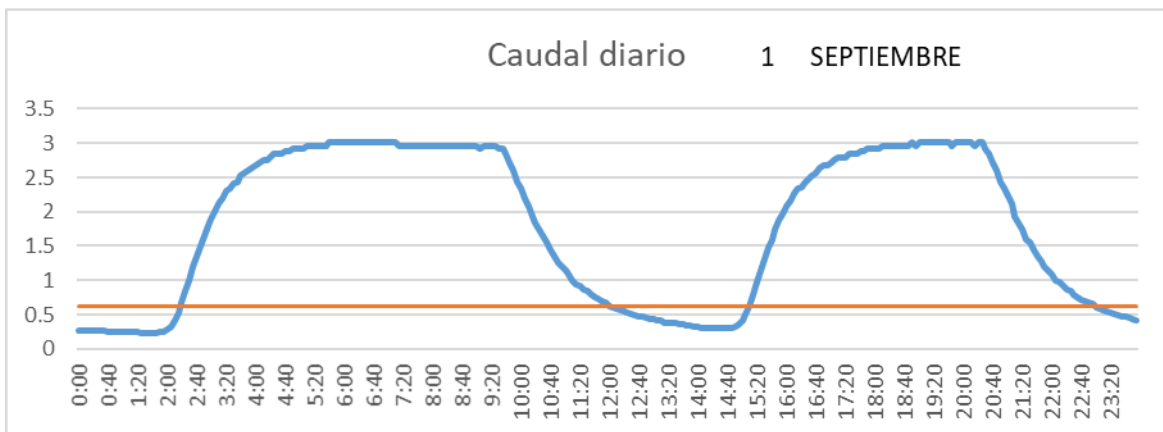


2.1.9 Septiembre

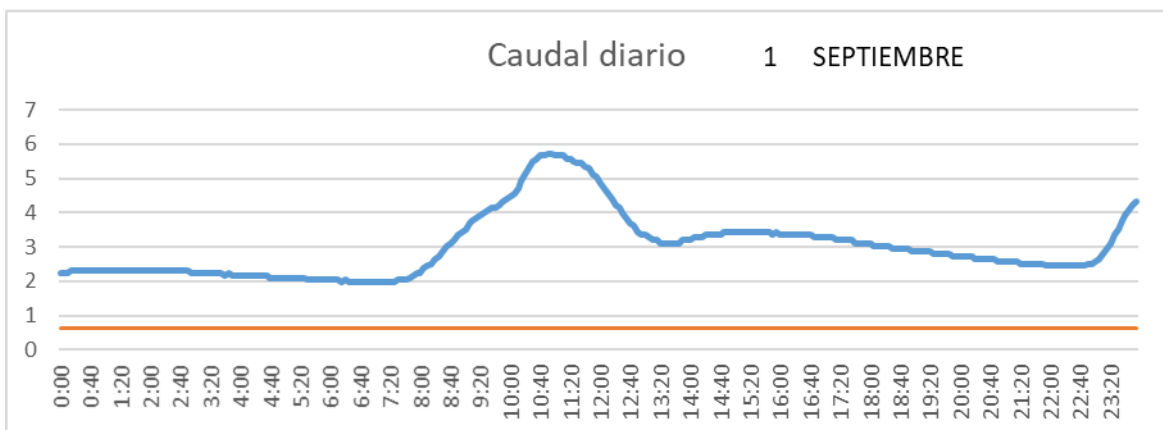
SALIDA TOBA



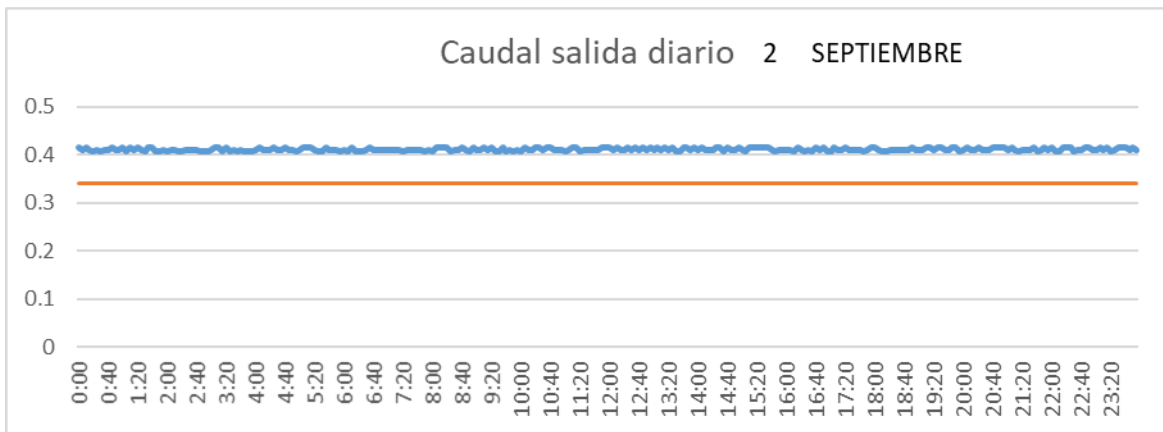
CUENCA



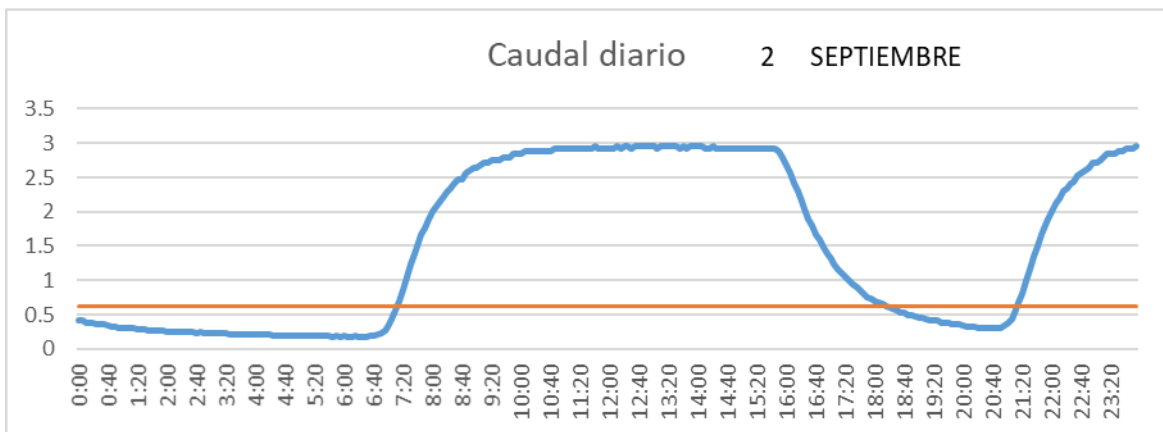
SAN LORENZO PARRILLA



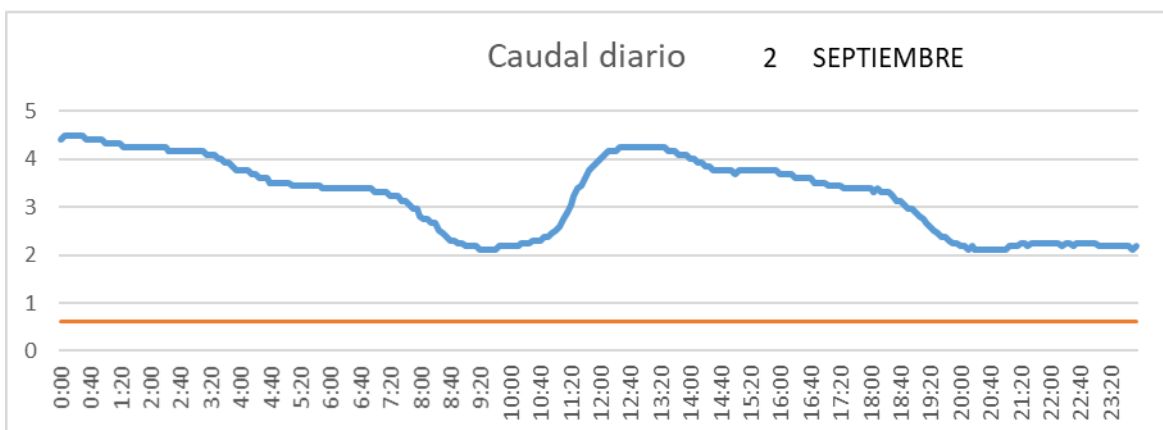
SALIDA TOBA



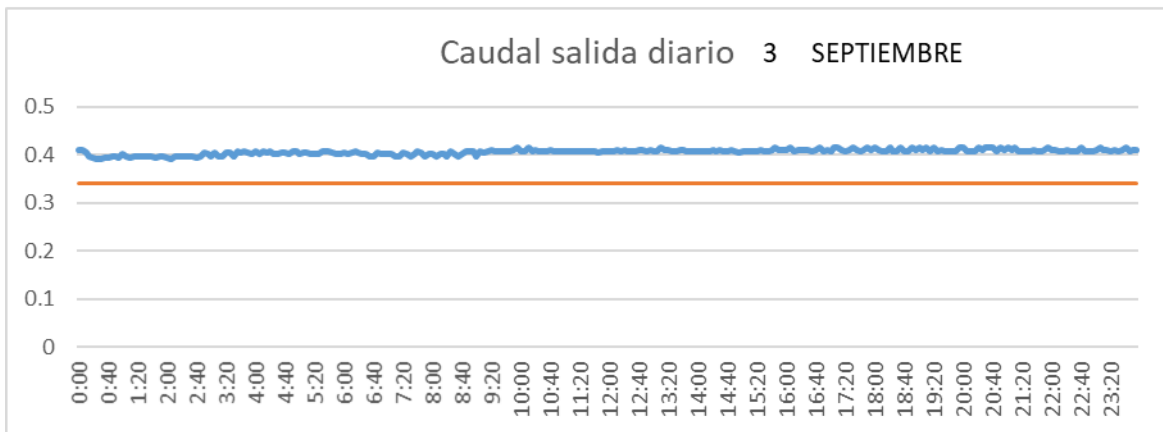
CUENCA



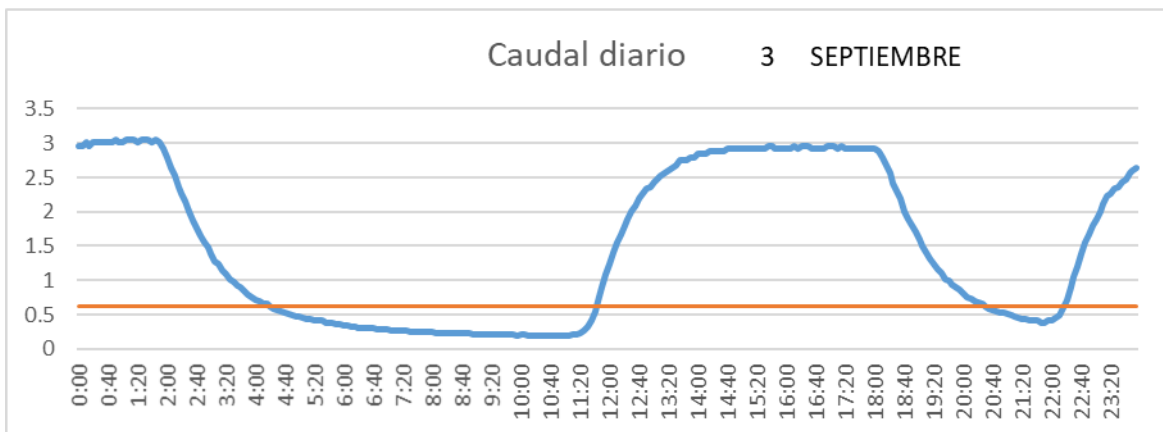
SAN LORENZO PARRILLA



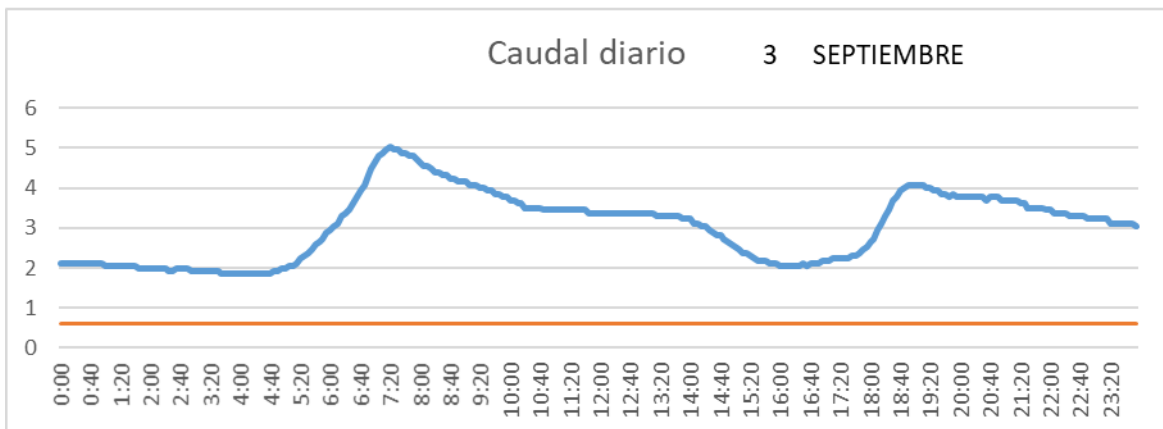
SALIDA TOBA



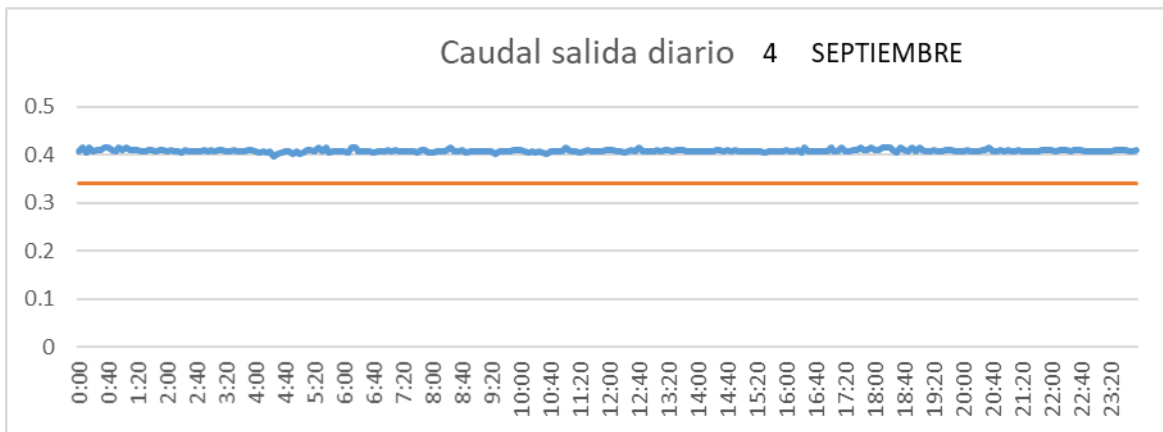
CUENCA



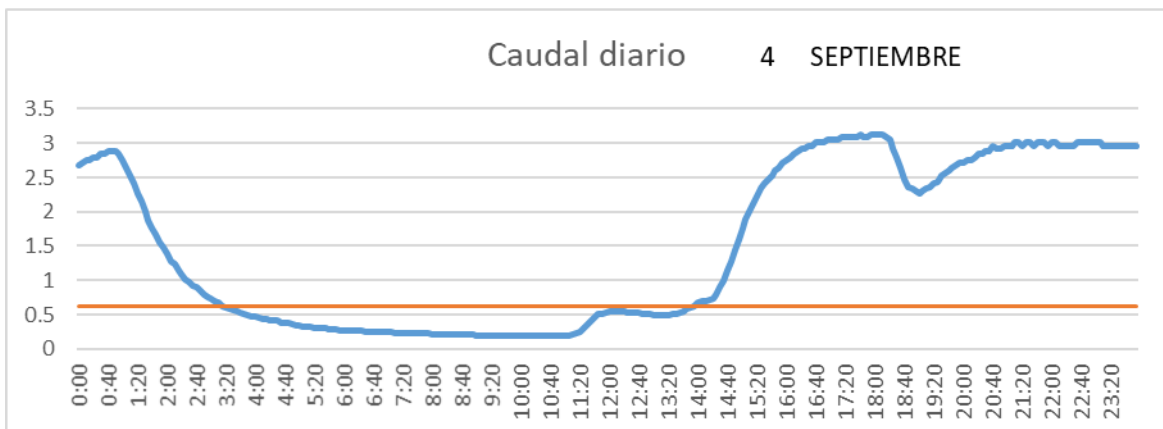
SAN LORENZO PARRILLA



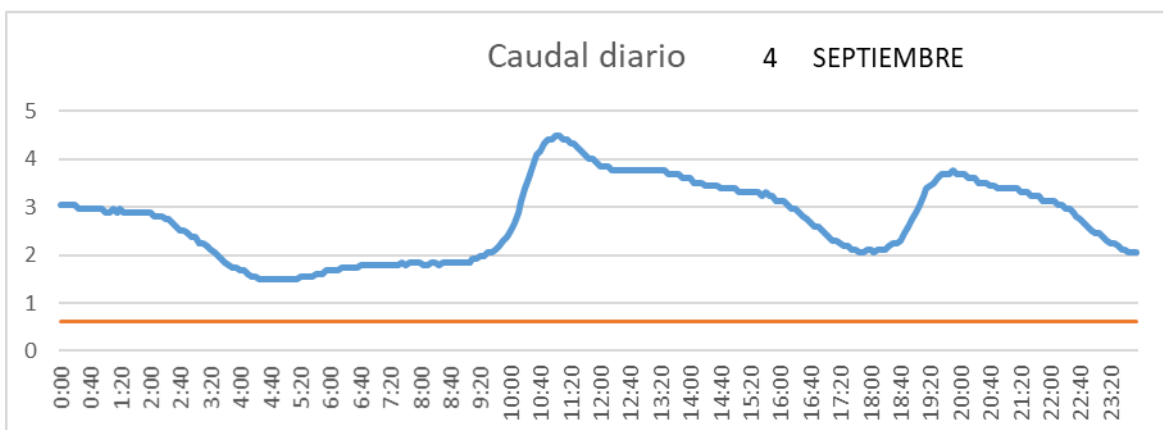
SALIDA TOBA



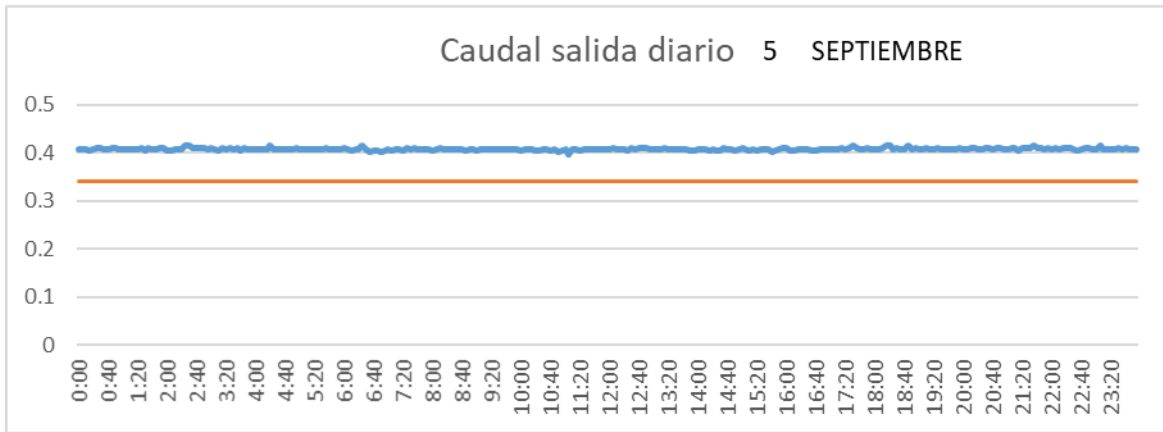
CUENCA



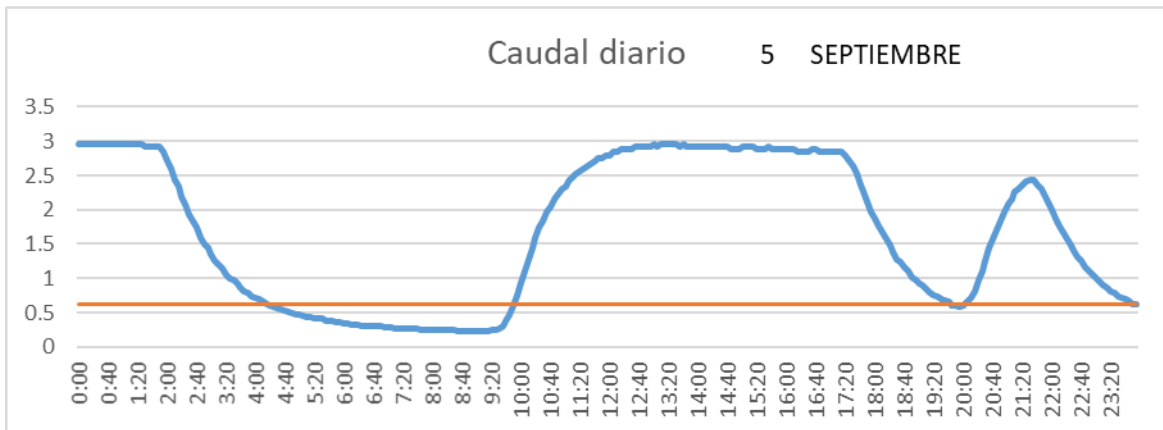
SAN LORENZO PARRILLA



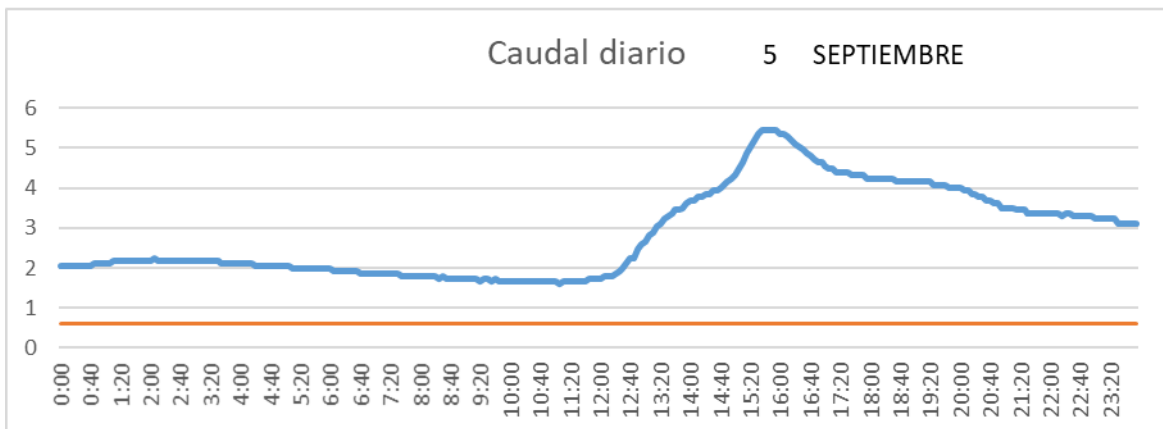
SALIDA TOBA



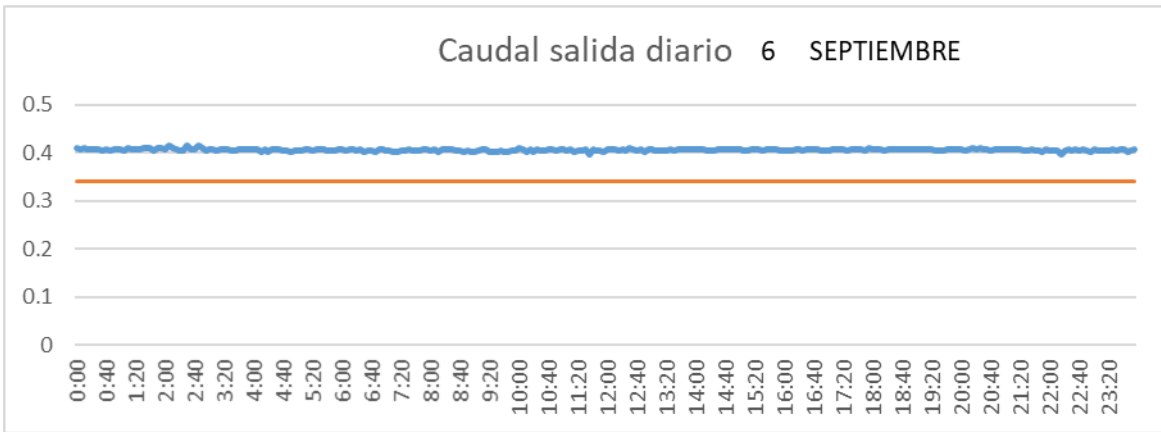
CUENCA



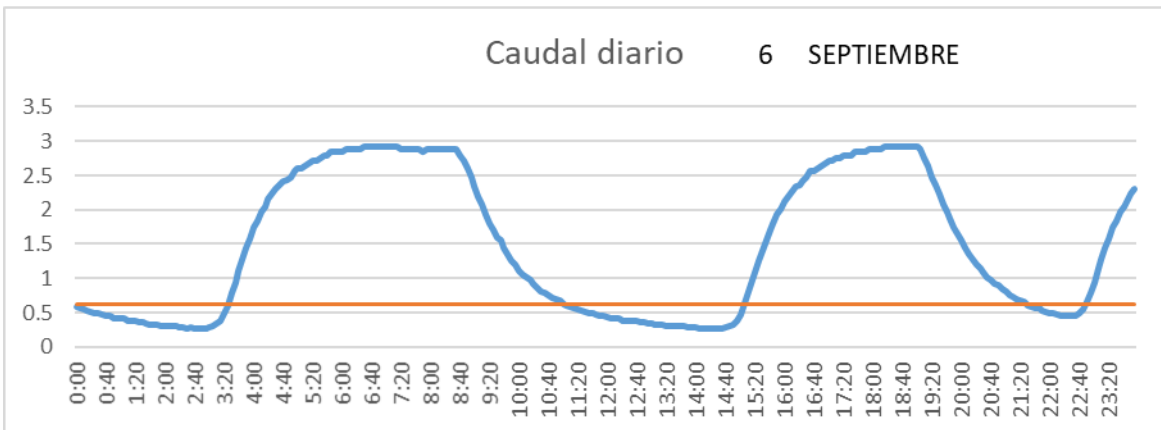
SAN LORENZO PARRILLA



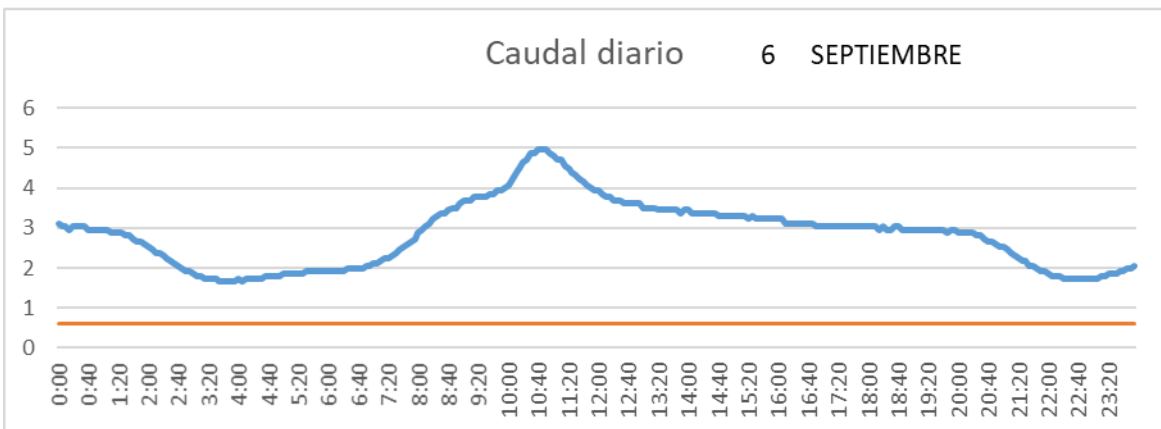
SALIDA TOBA



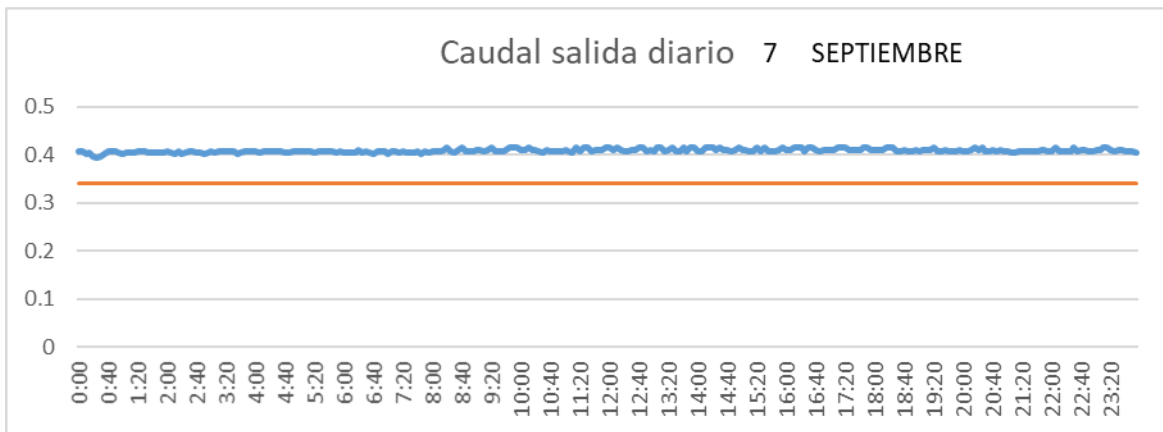
CUENCA



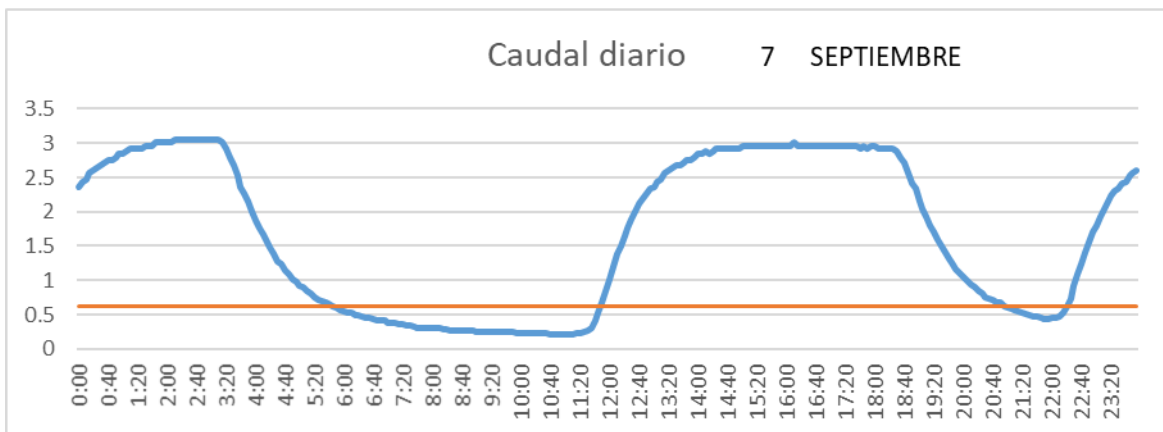
SAN LORENZO PARRILLA



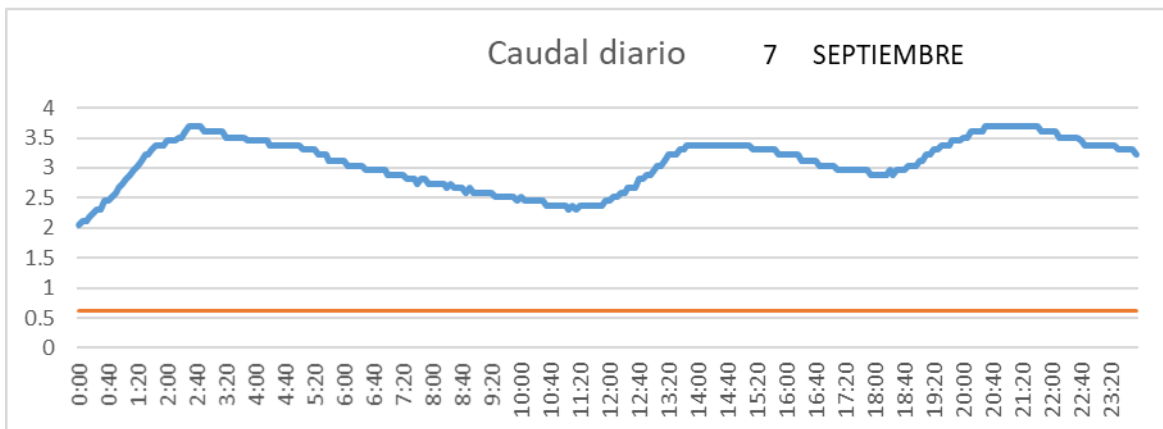
SALIDA TOBA



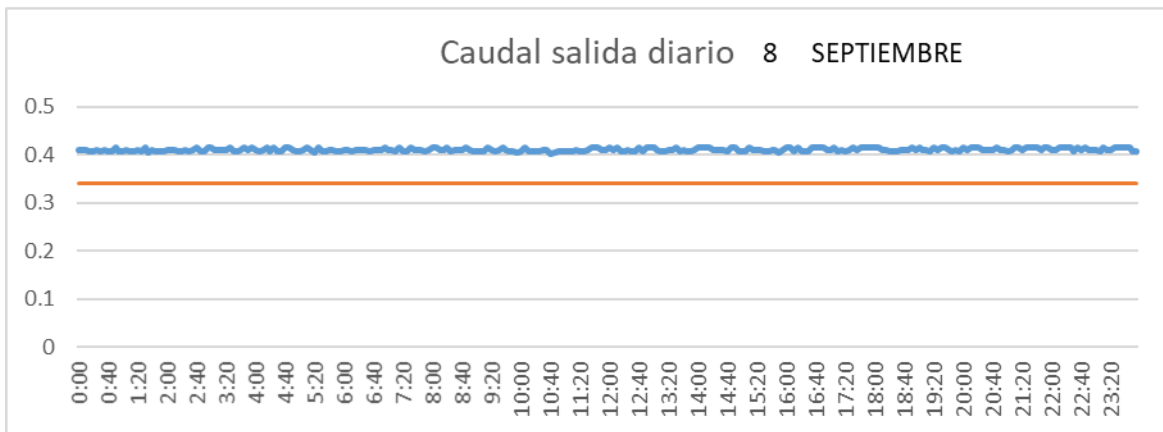
CUENCA



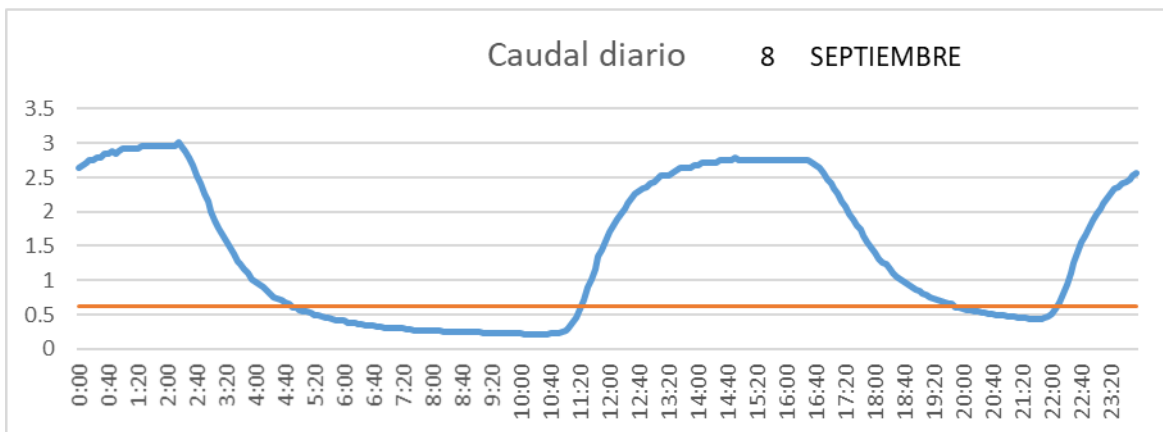
SAN LORENZO PARRILLA



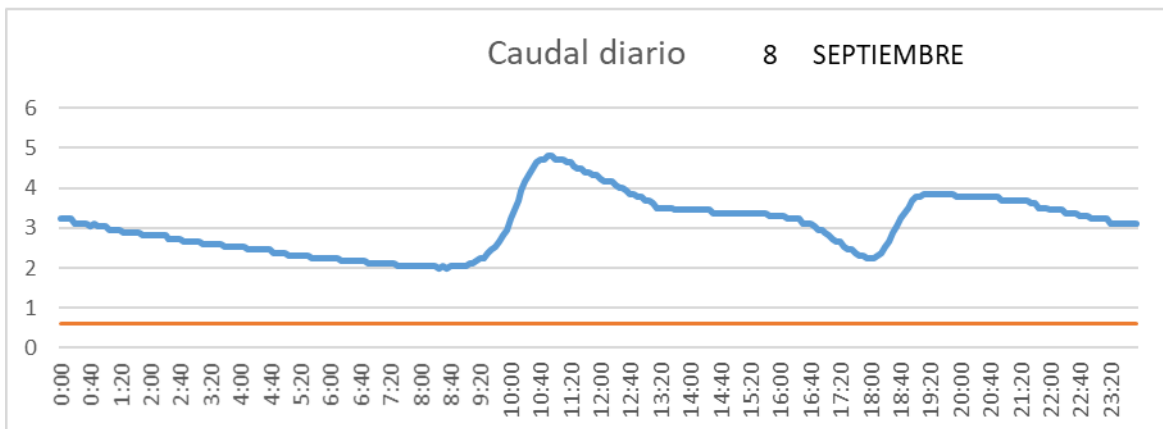
SALIDA TOBA



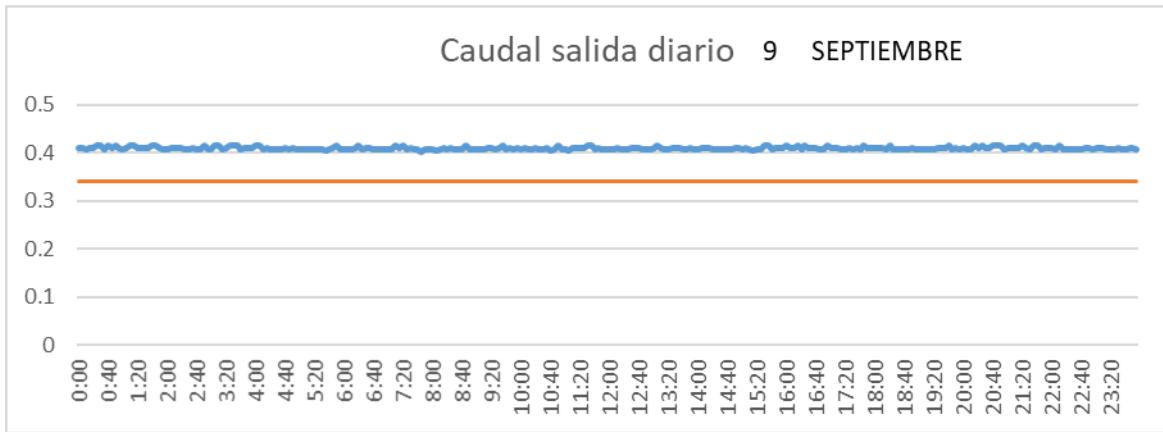
CUENCA



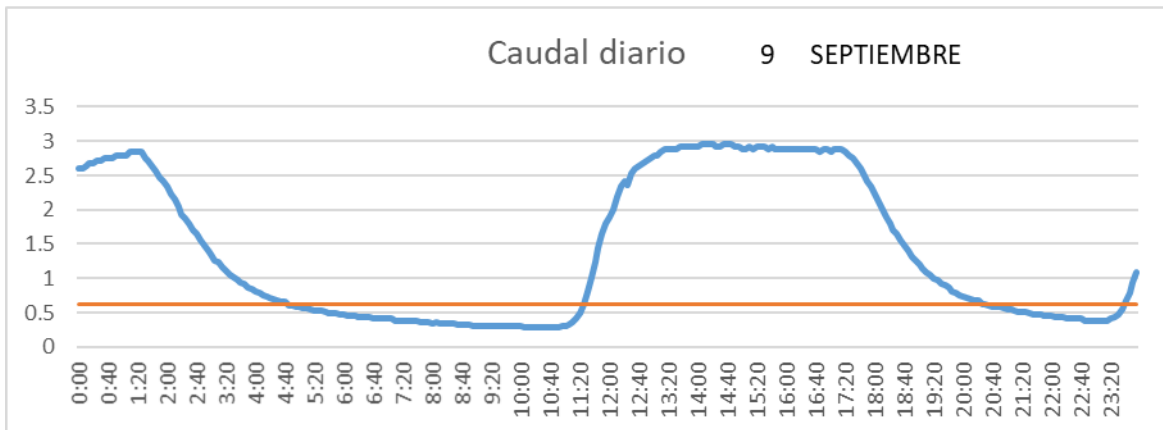
SAN LORENZO PARRILLA



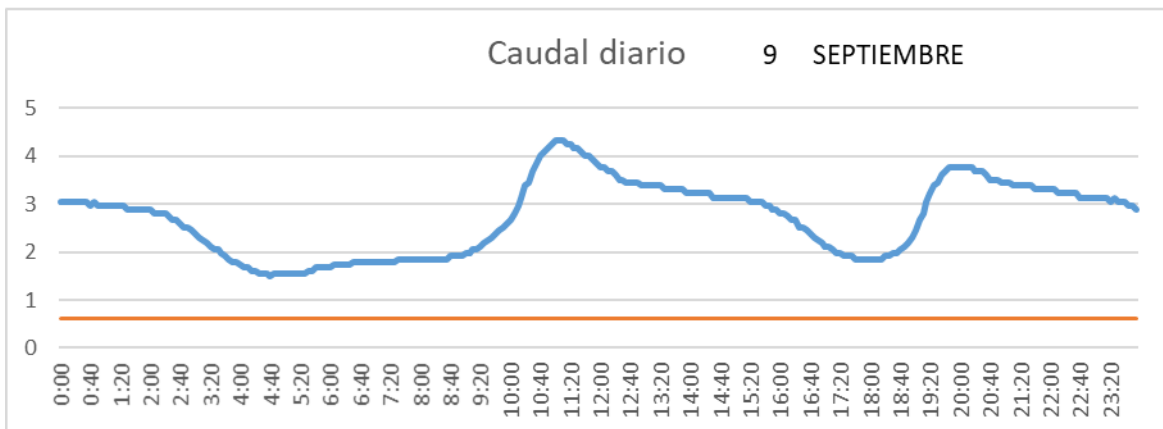
SALIDA TOBA



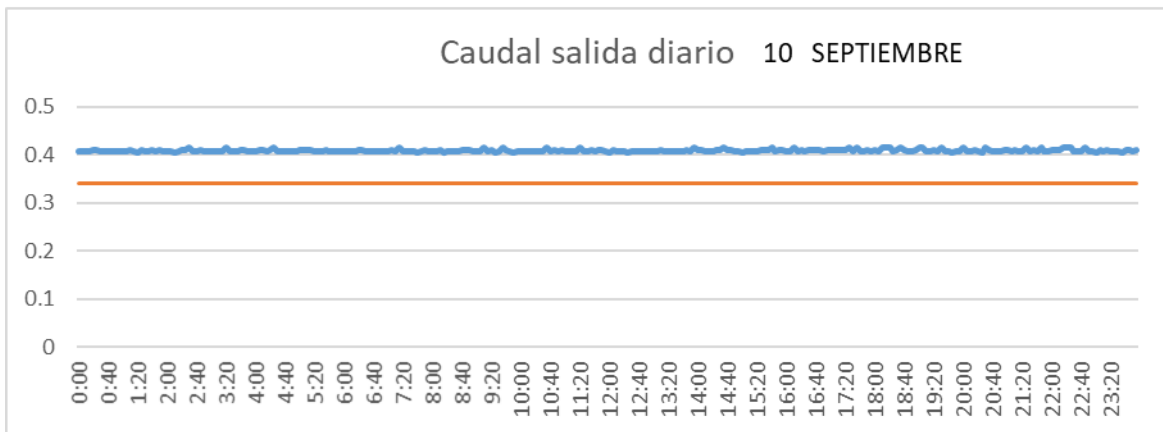
CUENCA



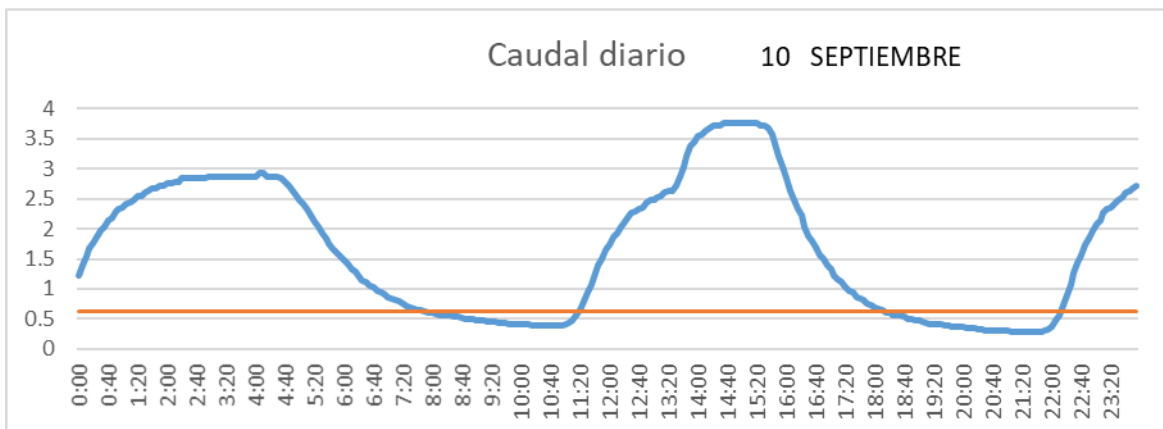
SAN LORENZO PARRILLA



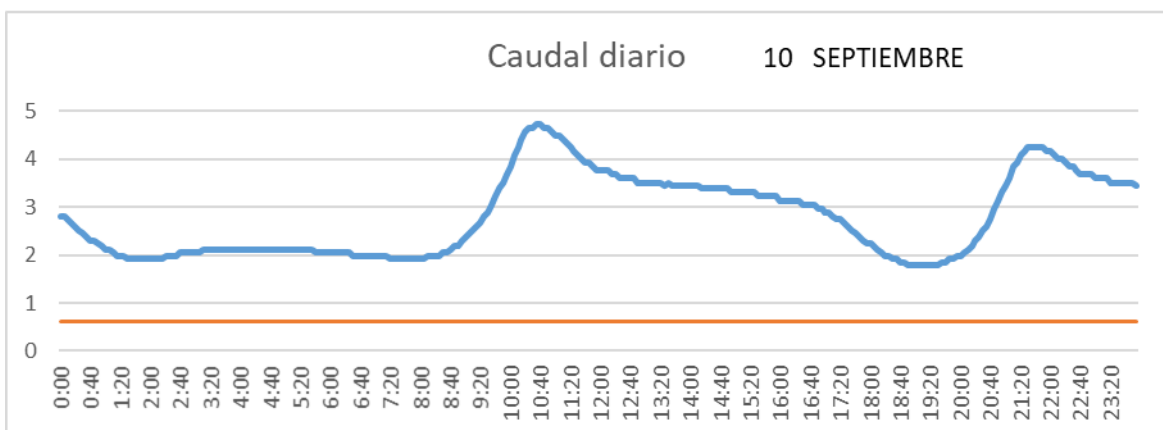
SALIDA TOBA



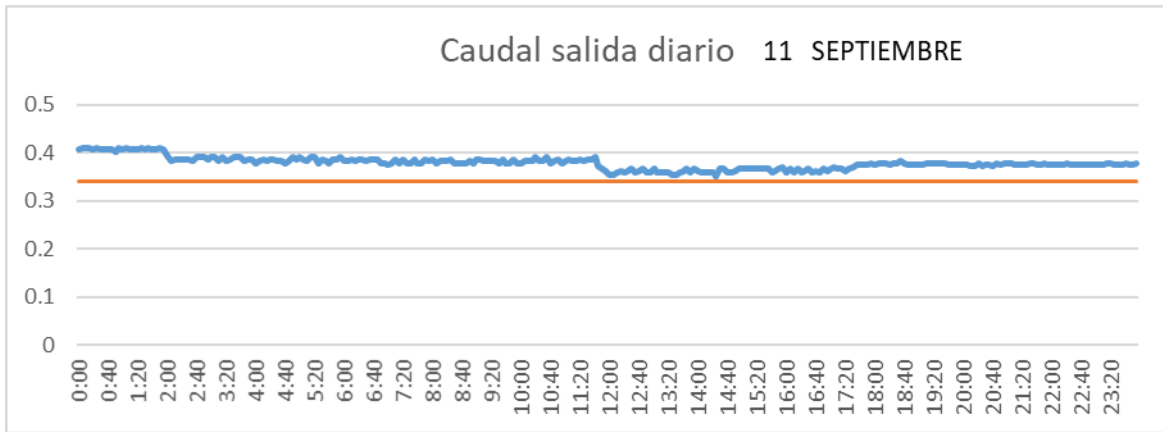
CUENCA



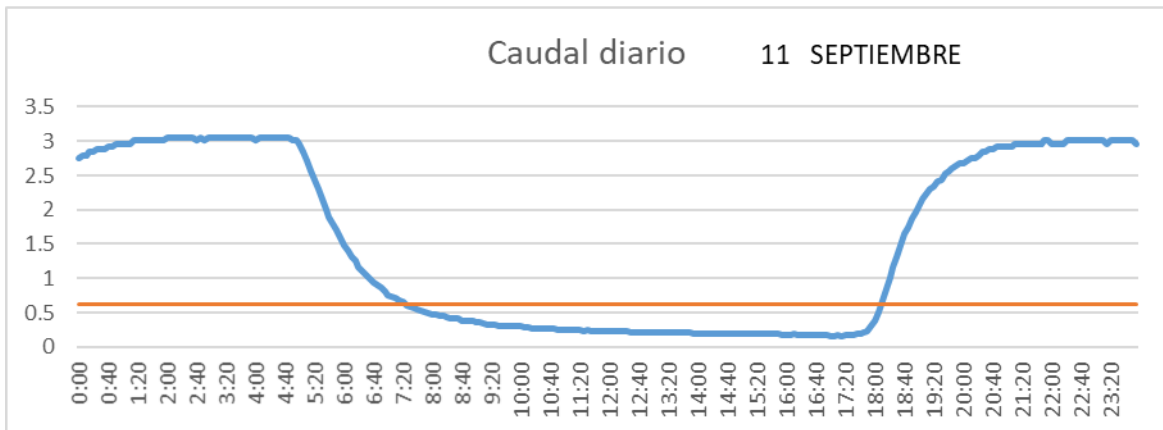
SAN LORENZO PARRILLA



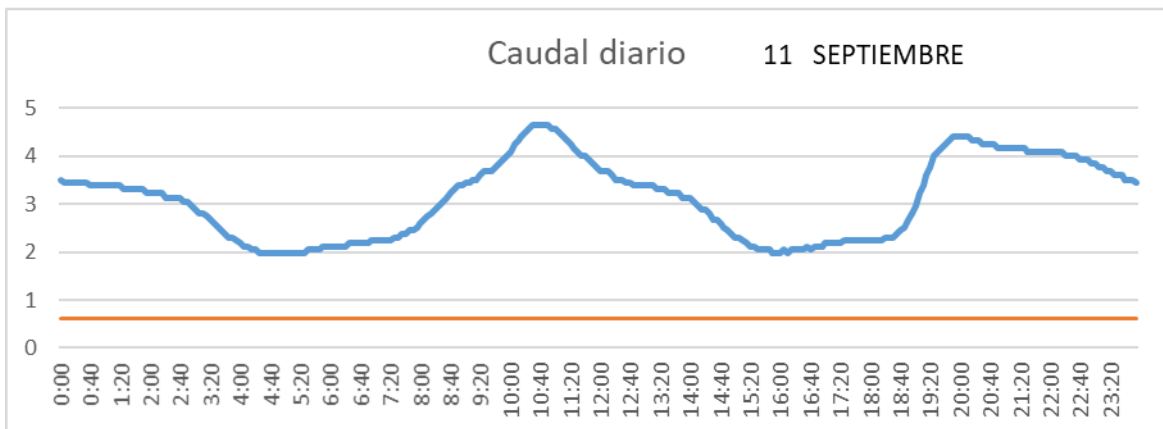
SALIDA TOBA



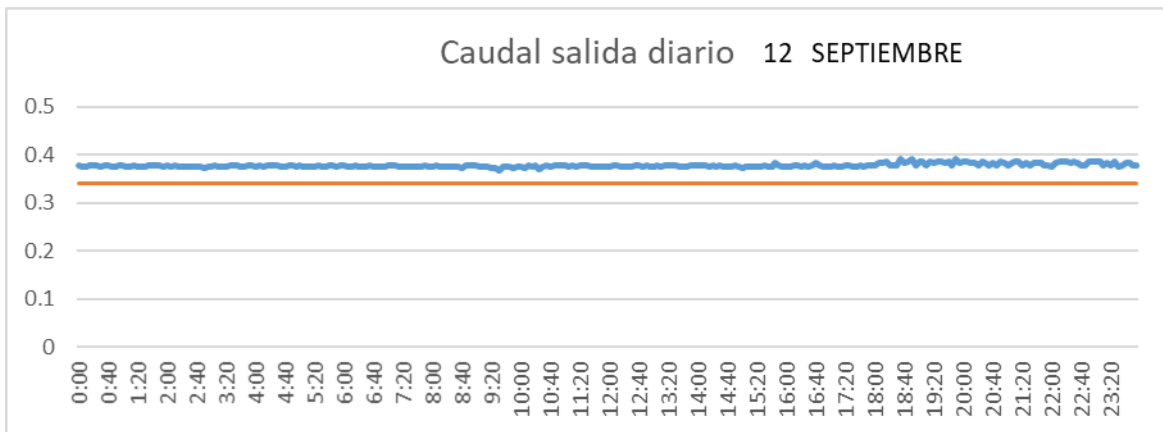
CUENCA



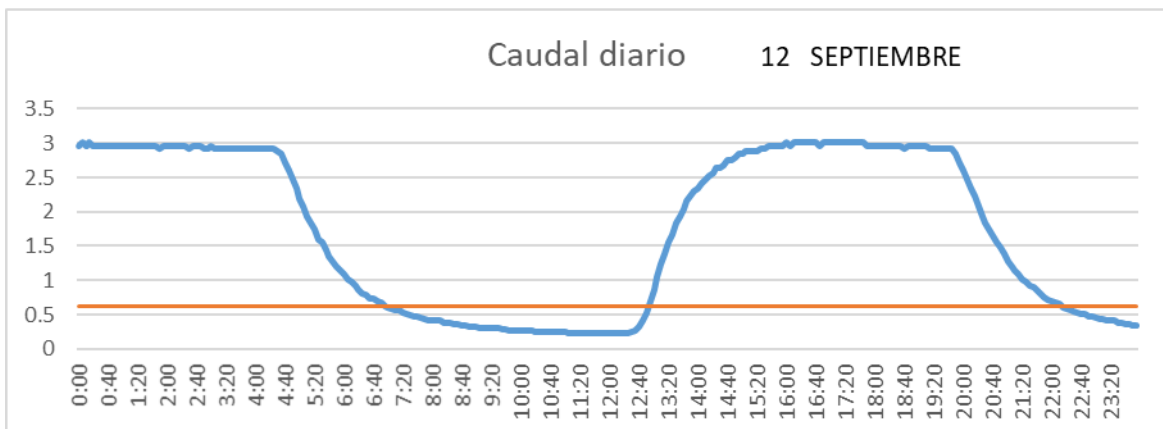
SAN LORENZO PARRILLA



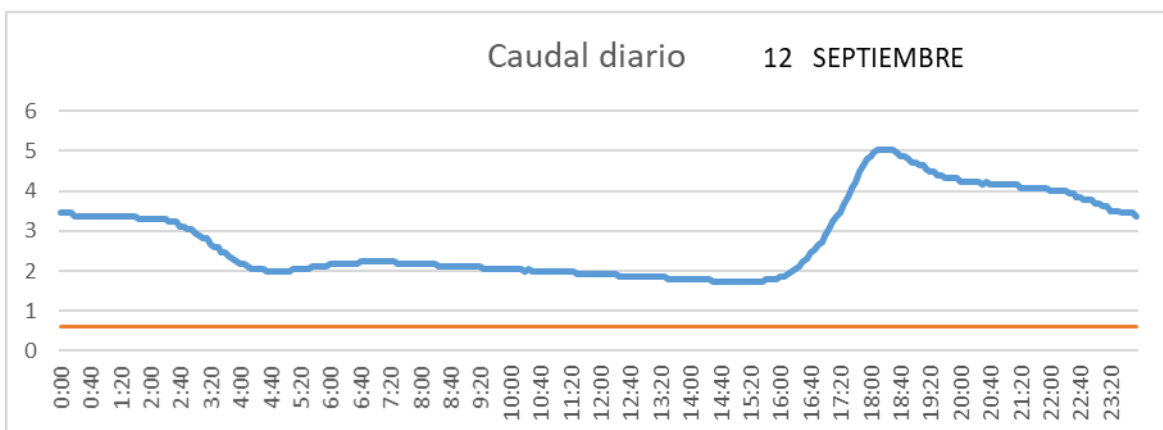
SALIDA TOBA



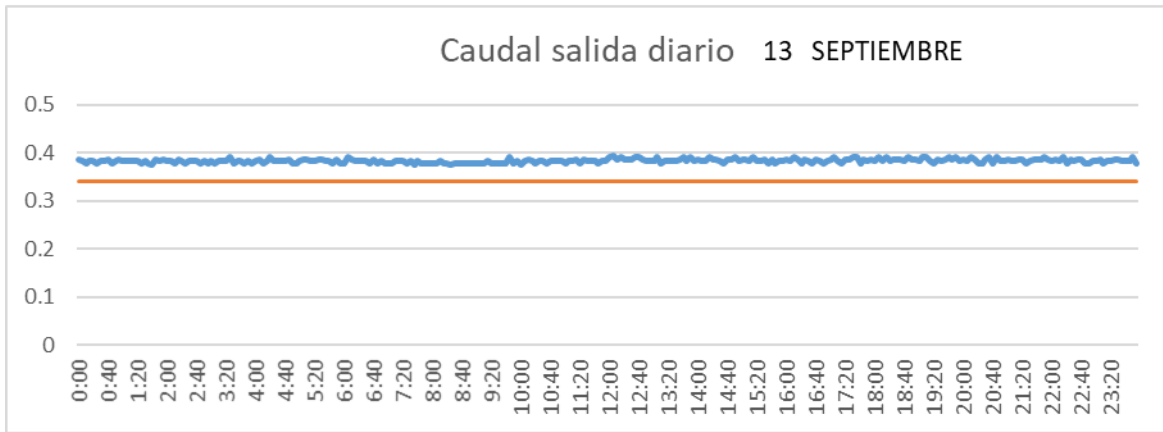
CUENCA



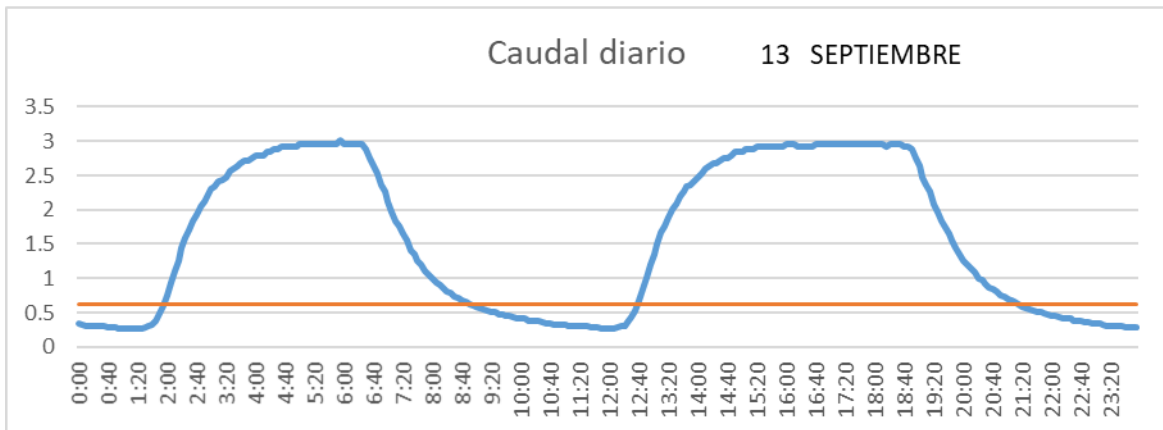
SAN LORENZO PARRILLA



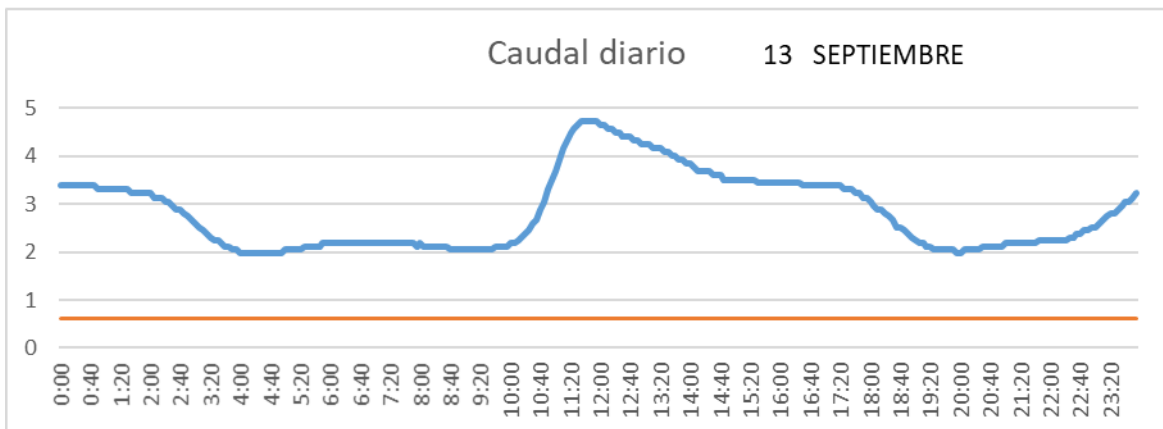
SALIDA TOBA



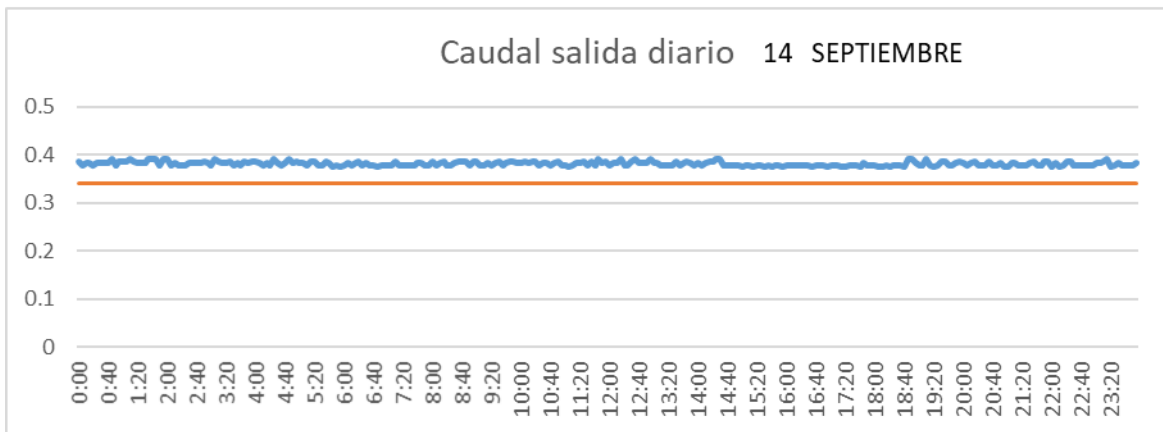
CUENCA



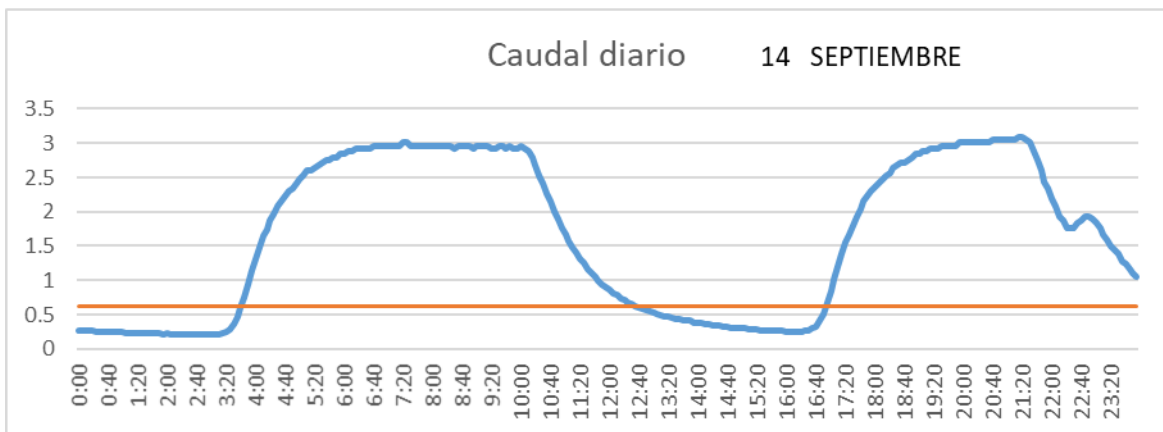
SAN LORENZO PARRILLA



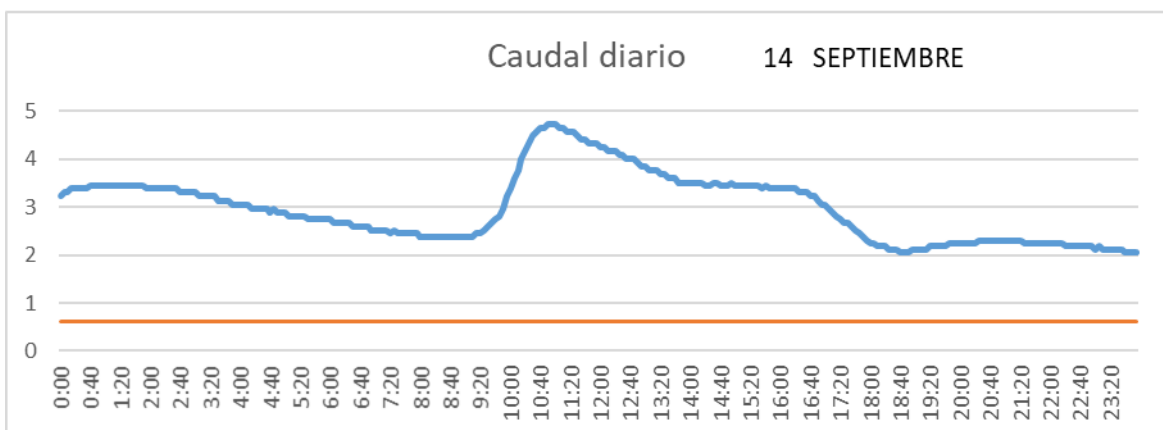
SALIDA TOBA



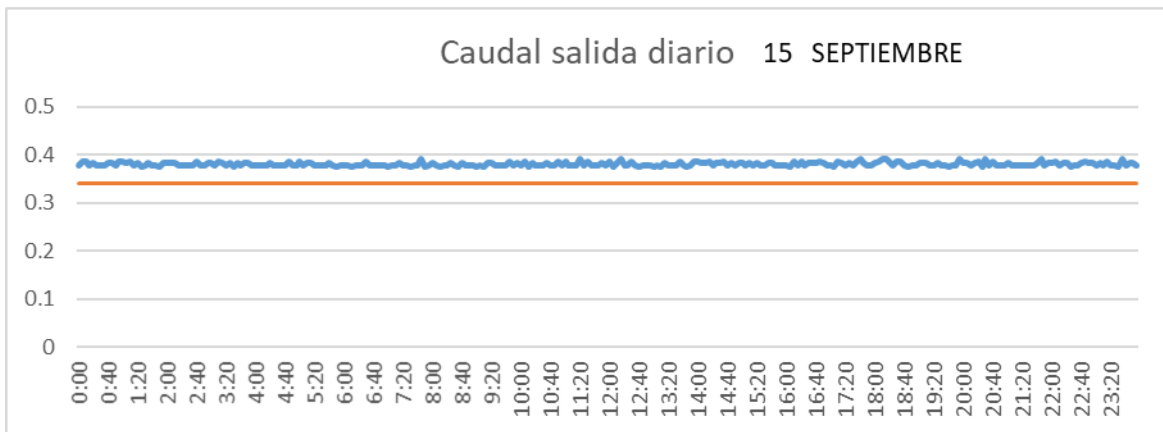
CUENCA



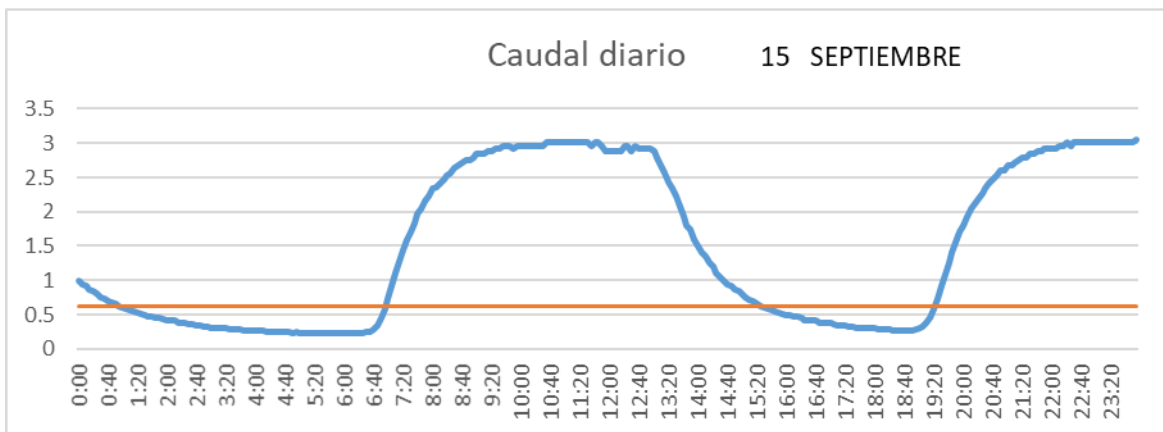
SAN LORENZO PARRILLA



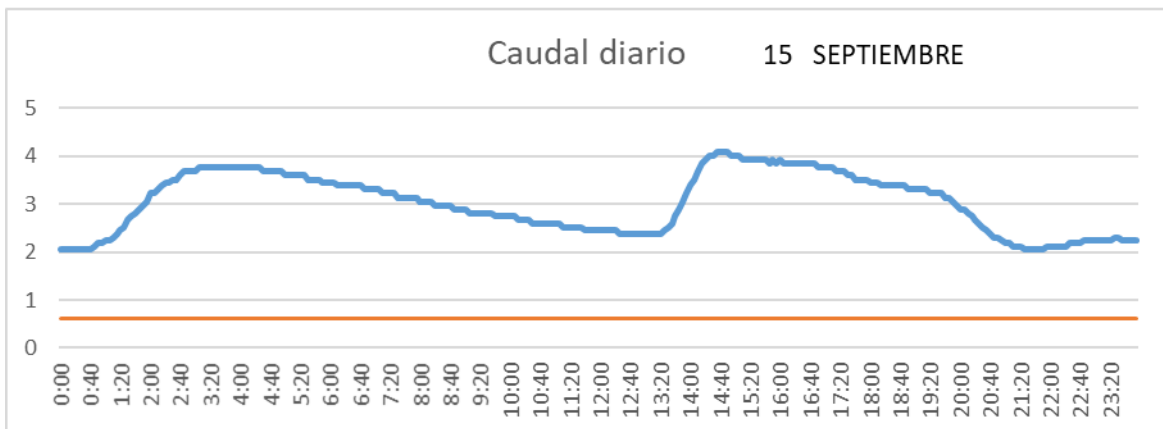
SALIDA TOBA



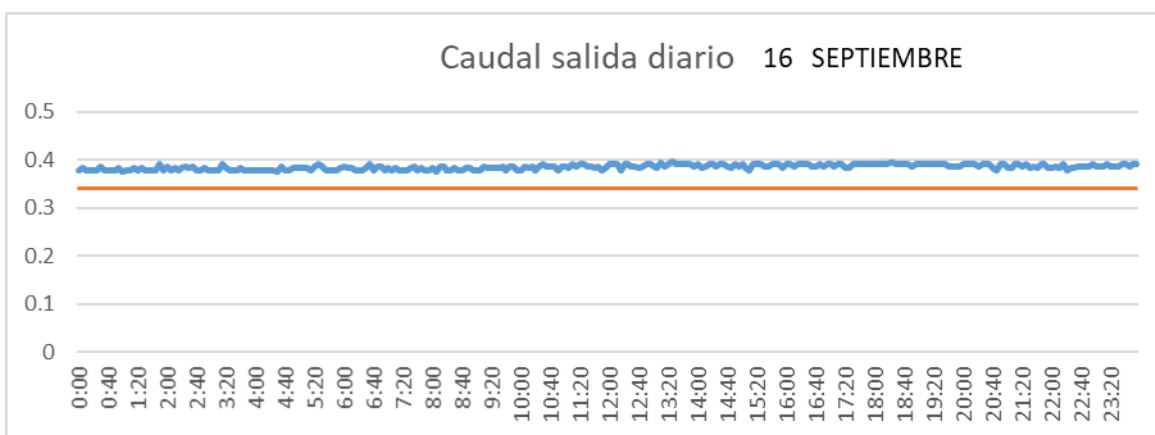
CUENCA



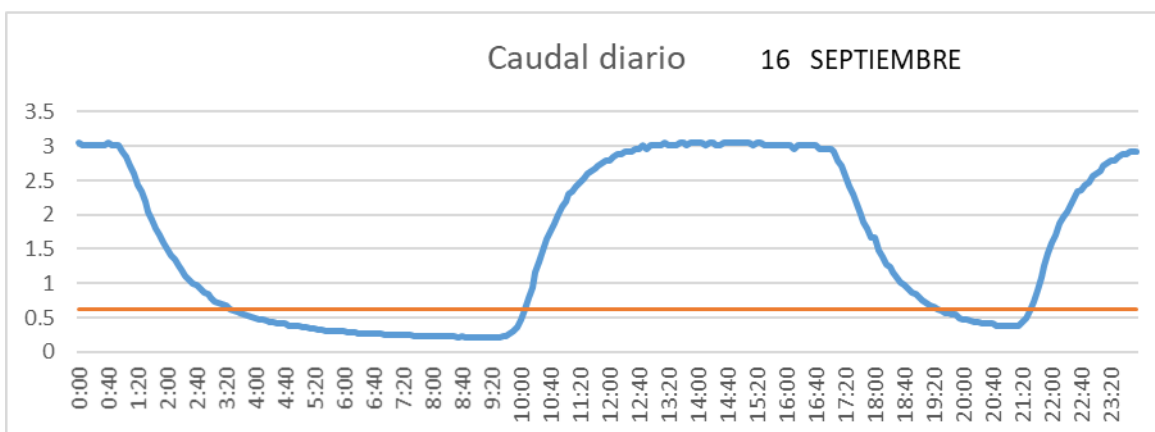
SAN LORENZO PARRILLA



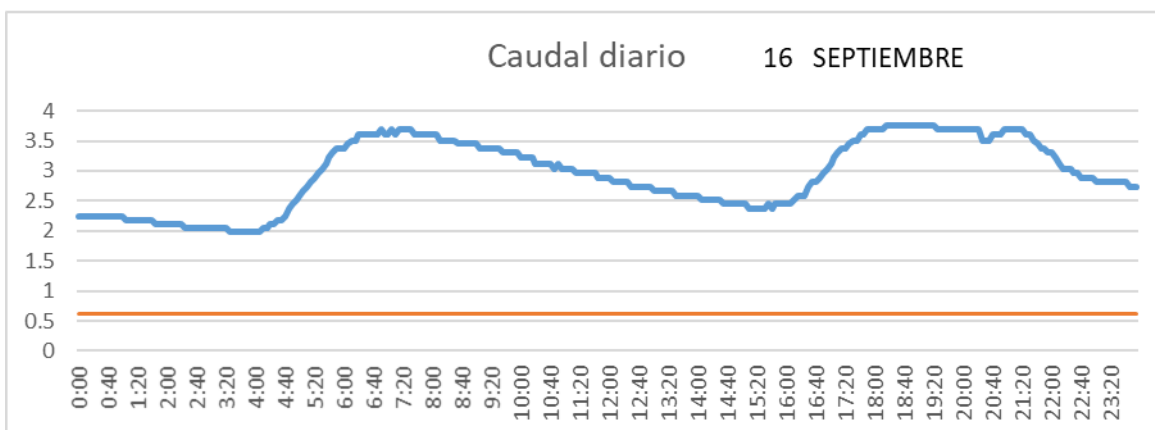
SALIDA TOBA



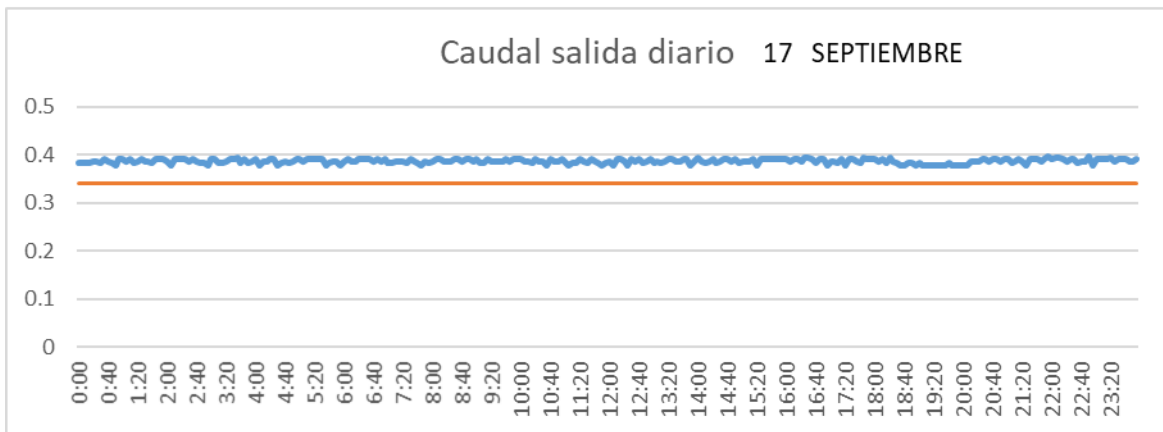
CUENCA



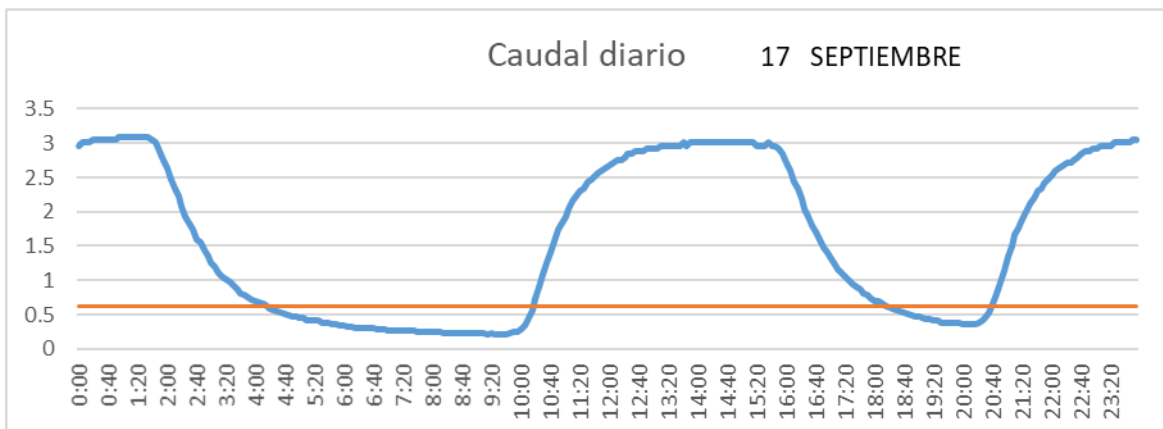
SAN LORENZO PARRILLA



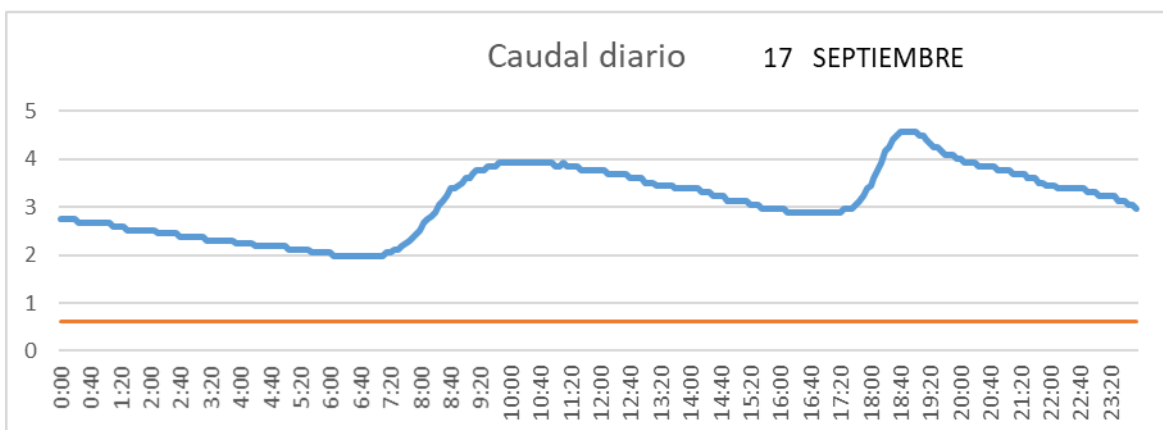
SALIDA TOBA



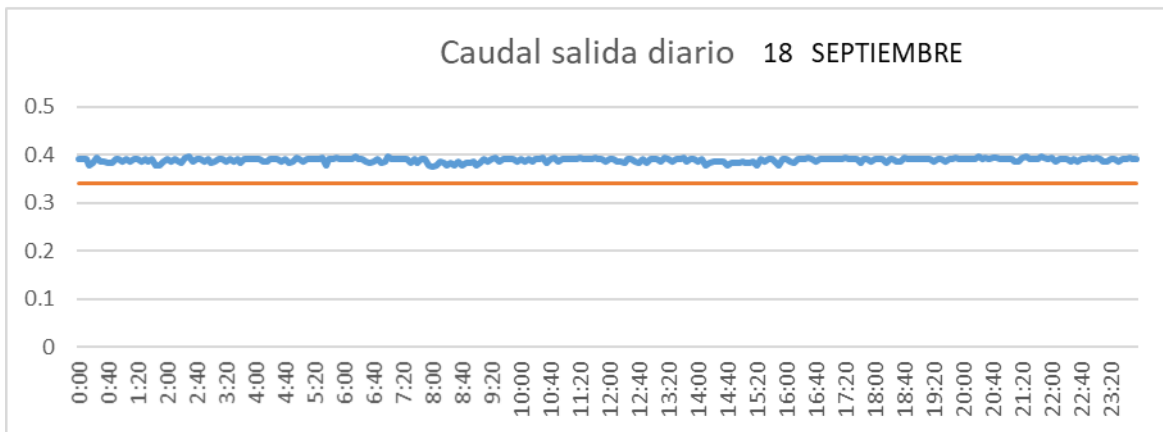
CUENCA



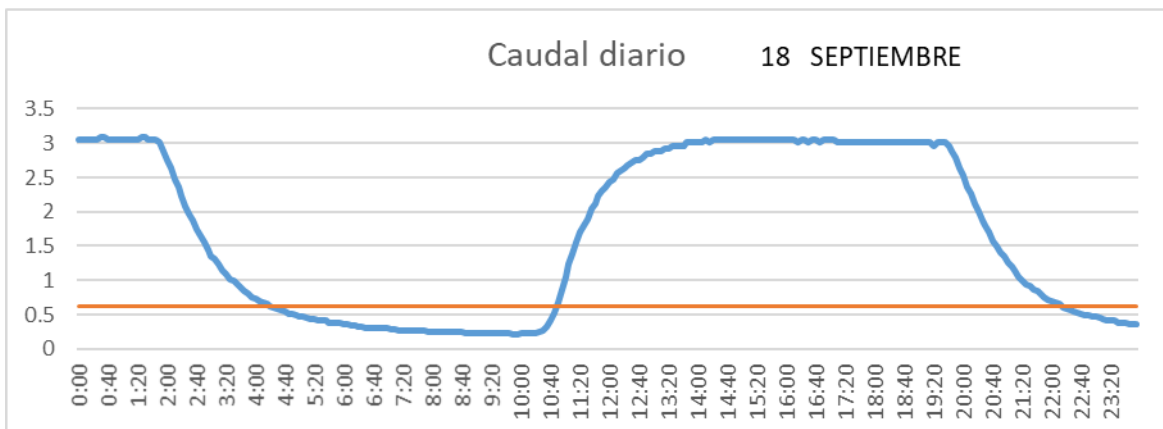
SAN LORENZO PARRILLA



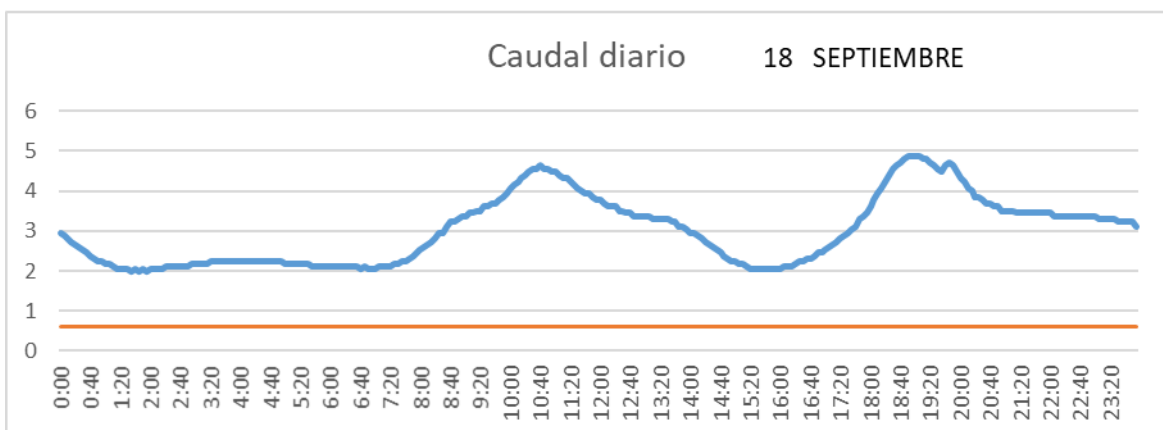
SALIDA TOBA



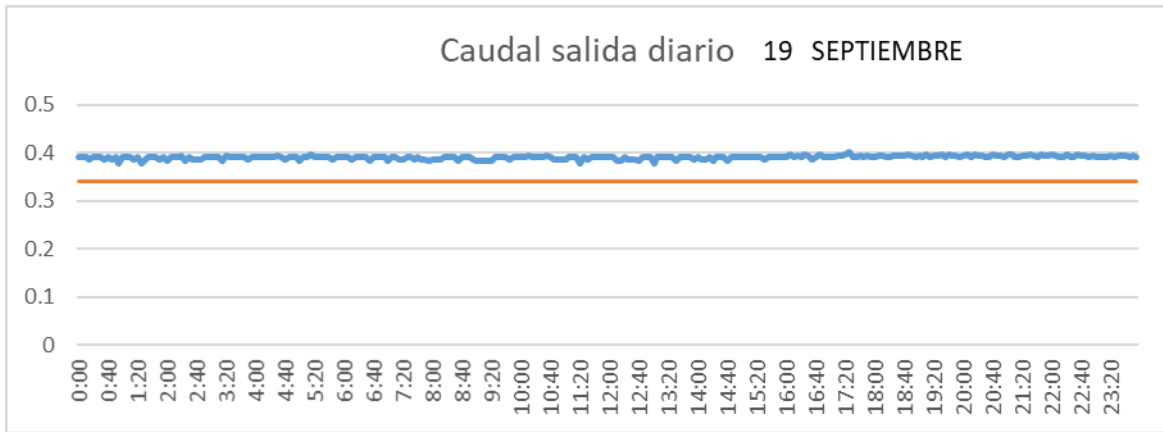
CUENCA



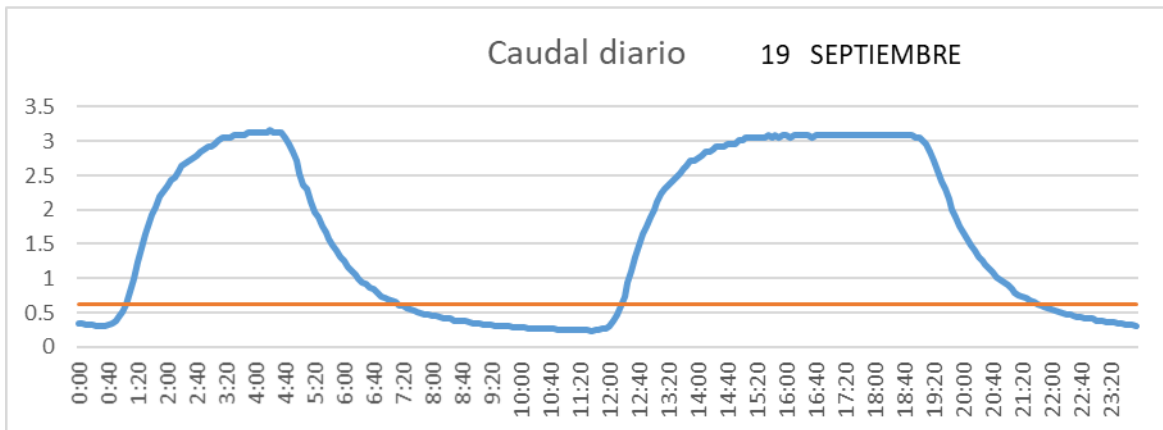
SAN LORENZO PARRILLA



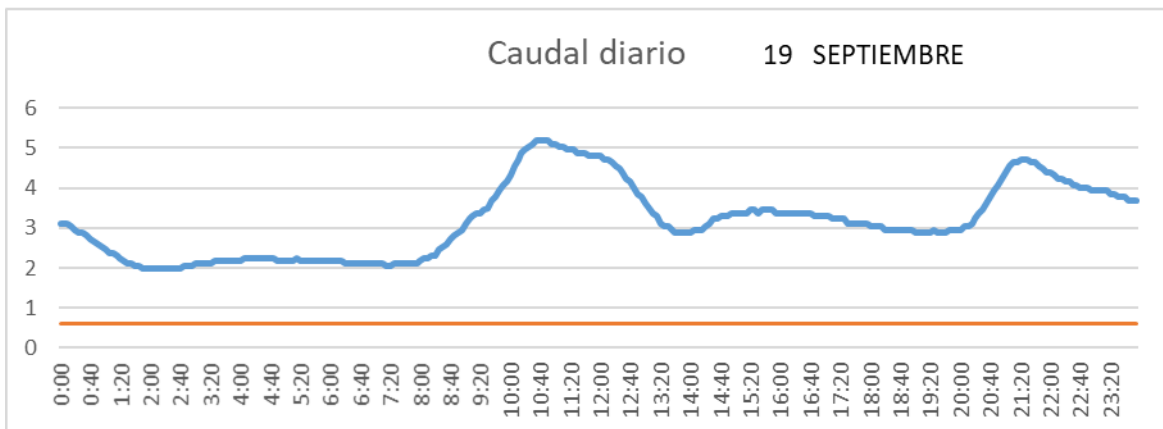
SALIDA TOBA



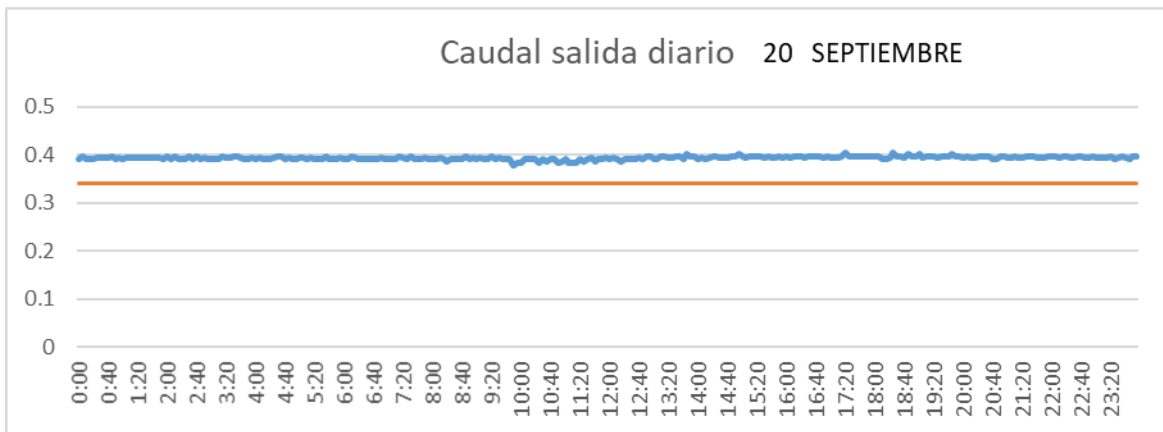
CUENCA



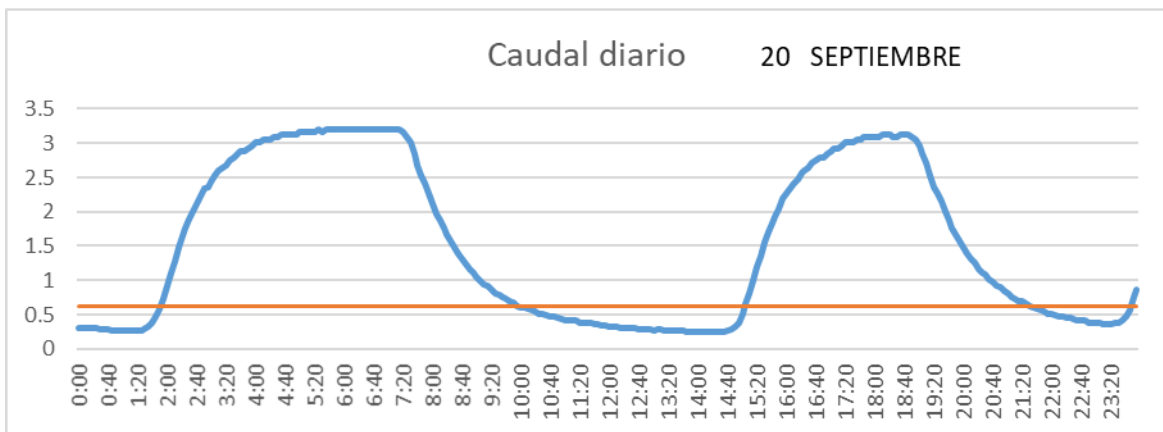
SAN LORENZO PARRILLA



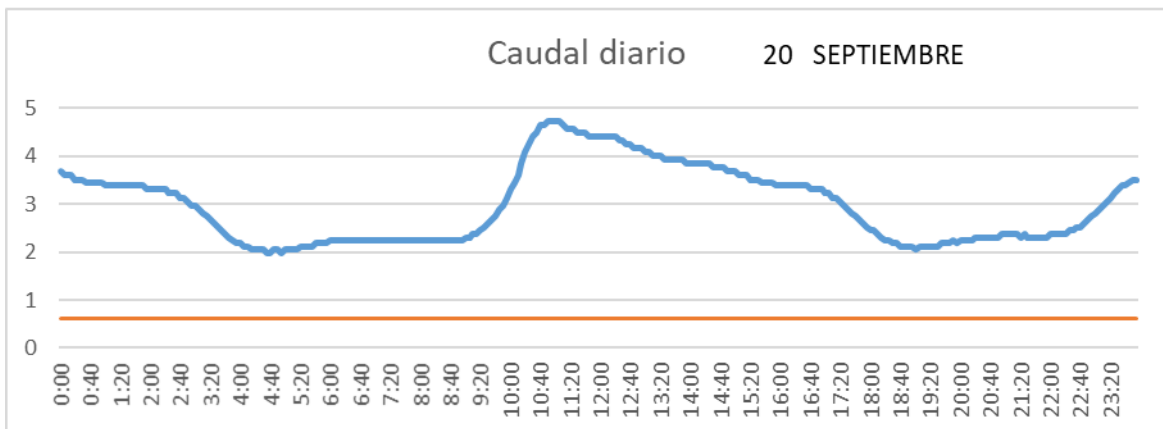
SALIDA TOBA



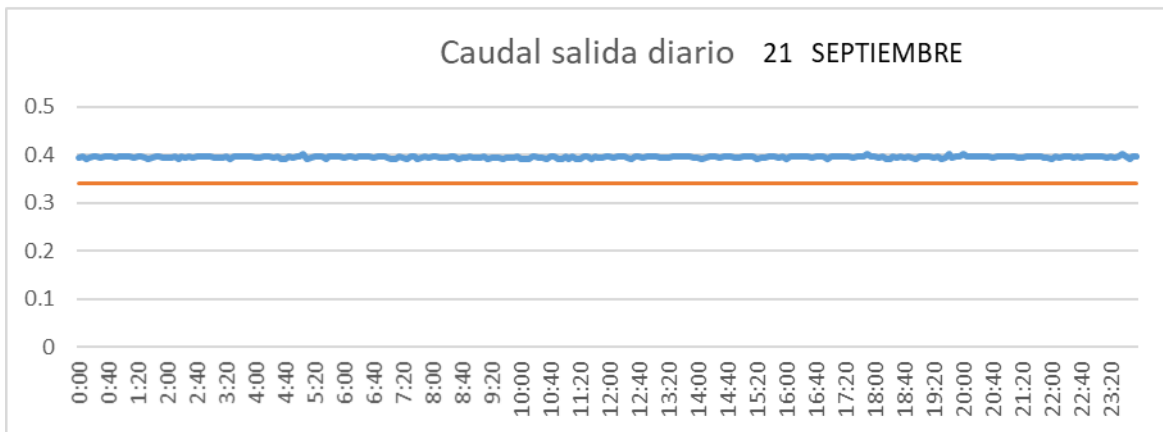
CUENCA



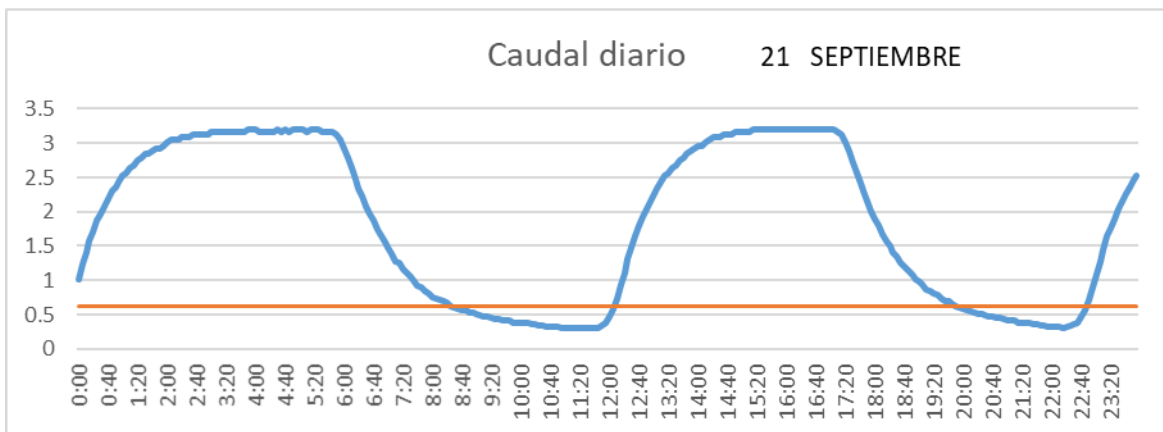
SAN LORENZO PARRILLA



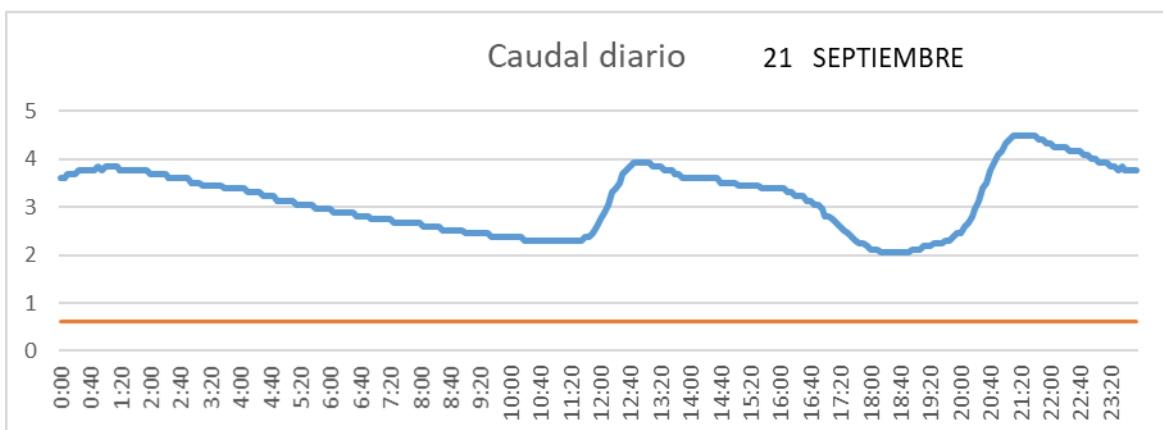
SALIDA TOBA



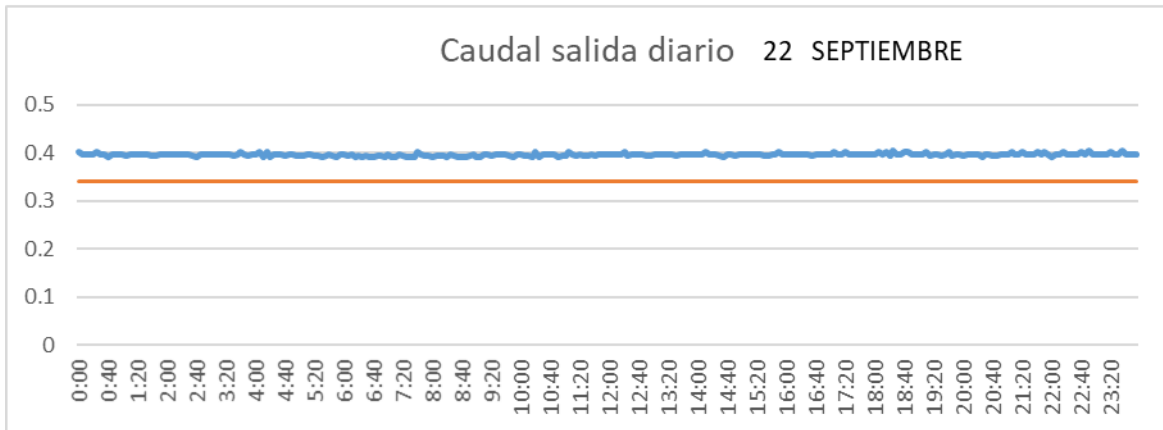
CUENCA



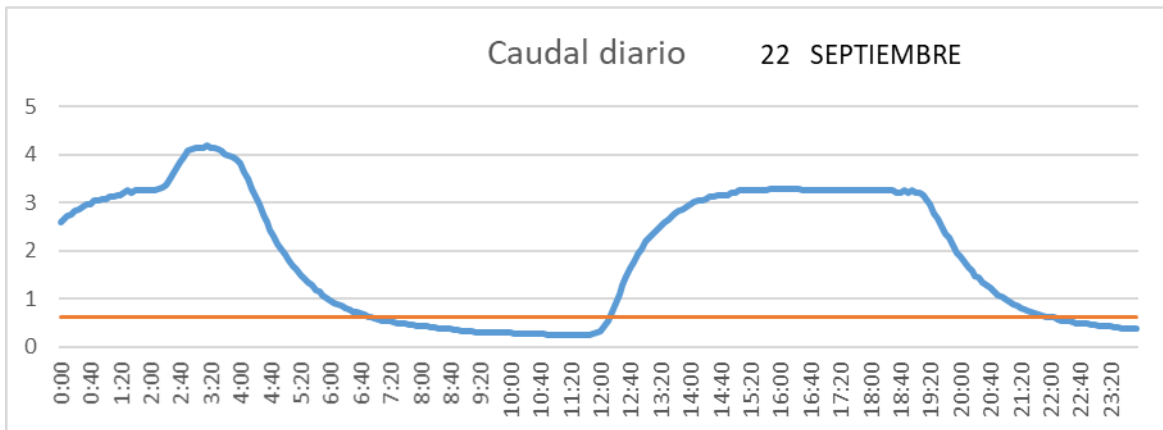
SAN LORENZO PARRILLA



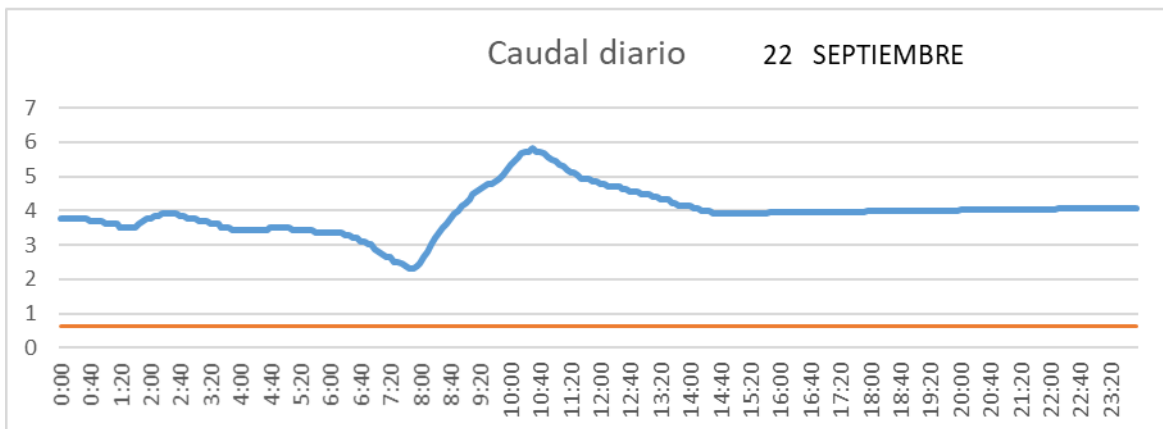
SALIDA TOBA



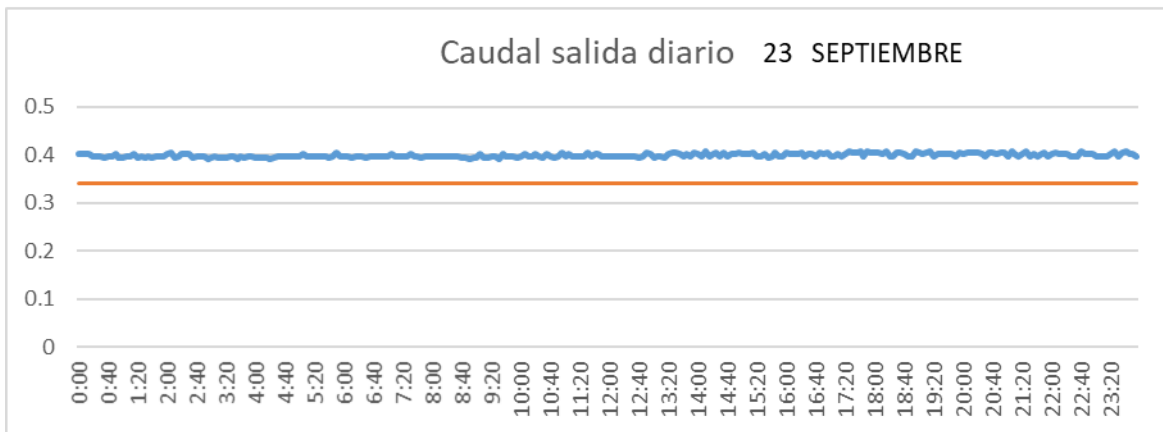
CUENCA



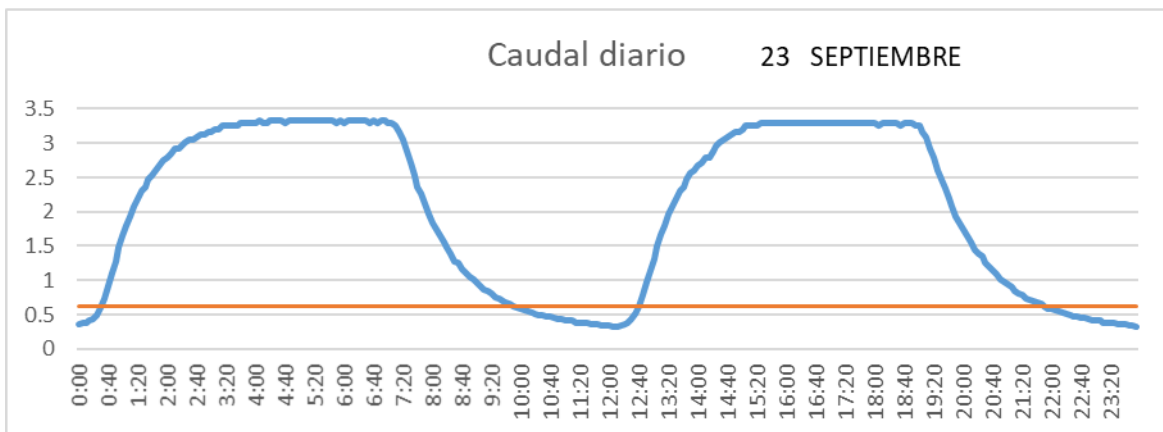
SAN LORENZO PARRILLA



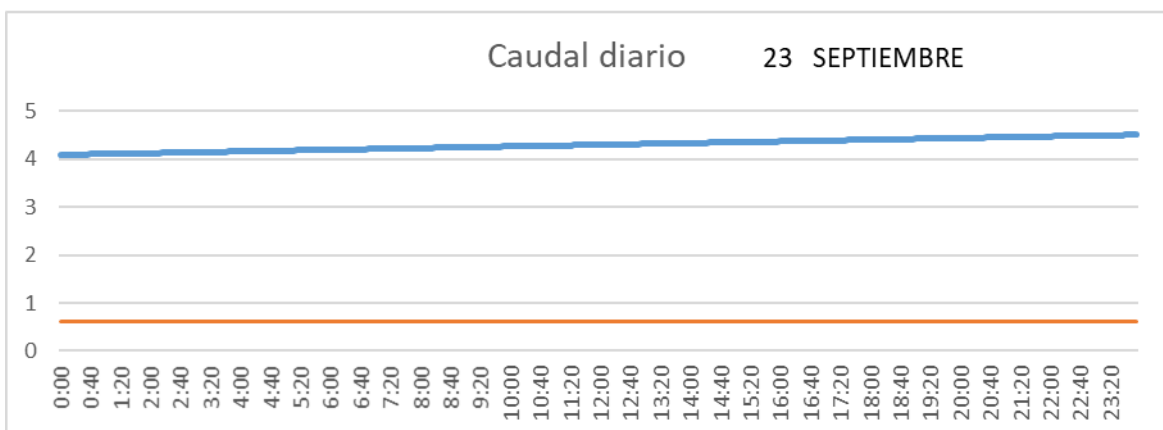
SALIDA TOBA



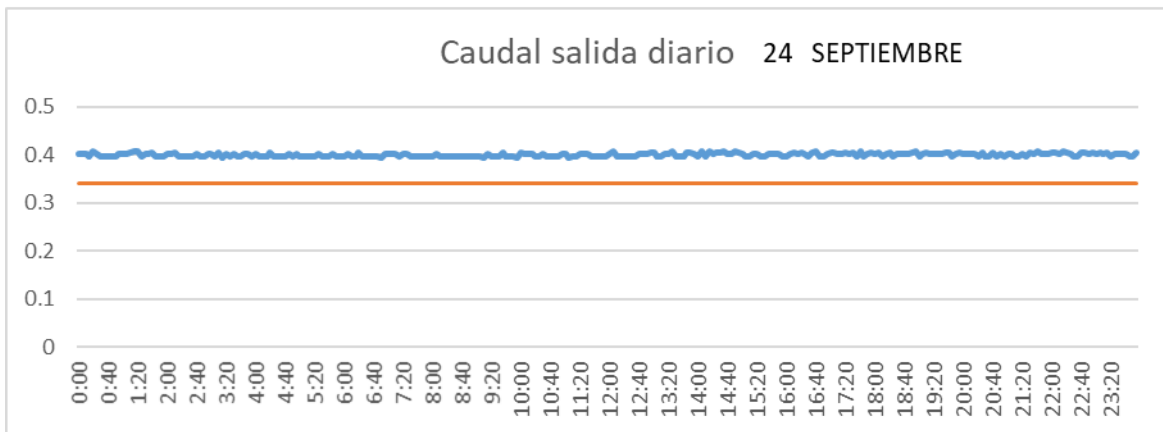
CUENCA



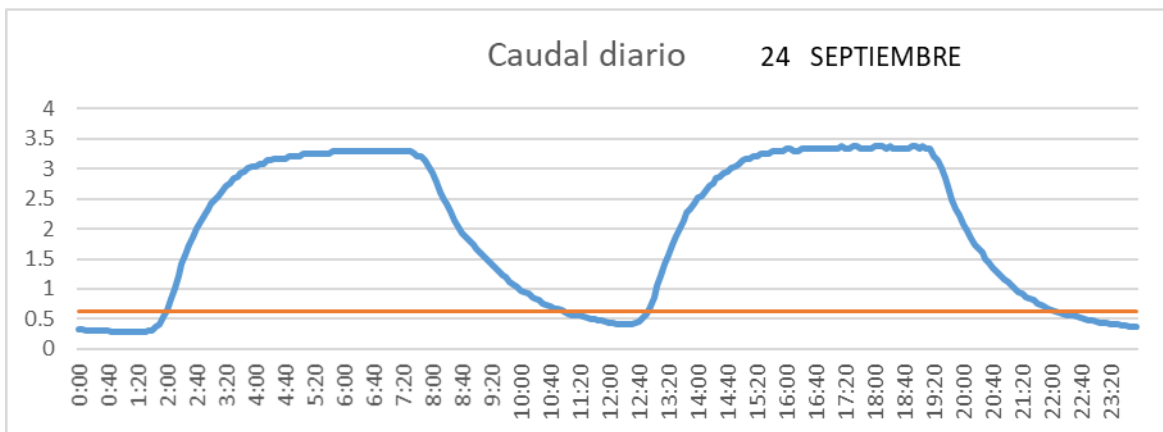
SAN LORENZO PARRILLA



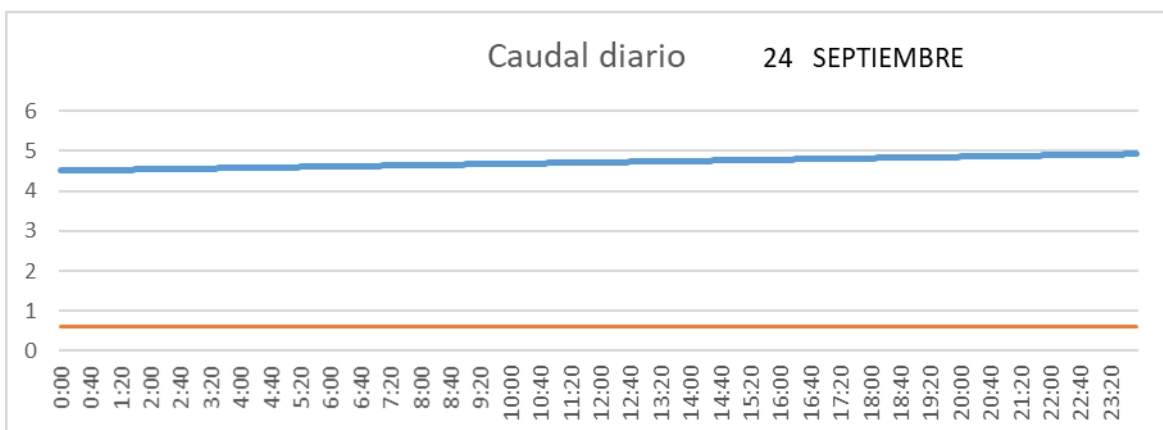
SALIDA TOBA



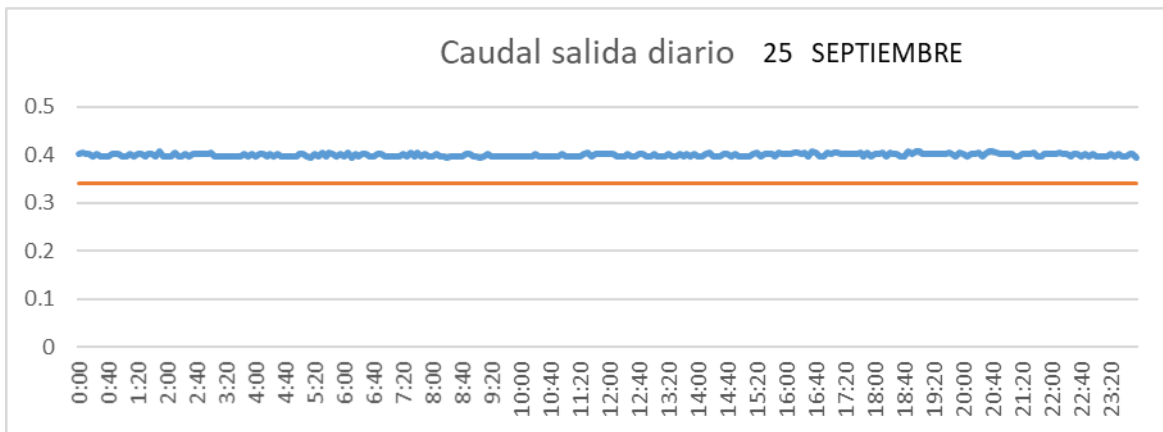
CUENCA



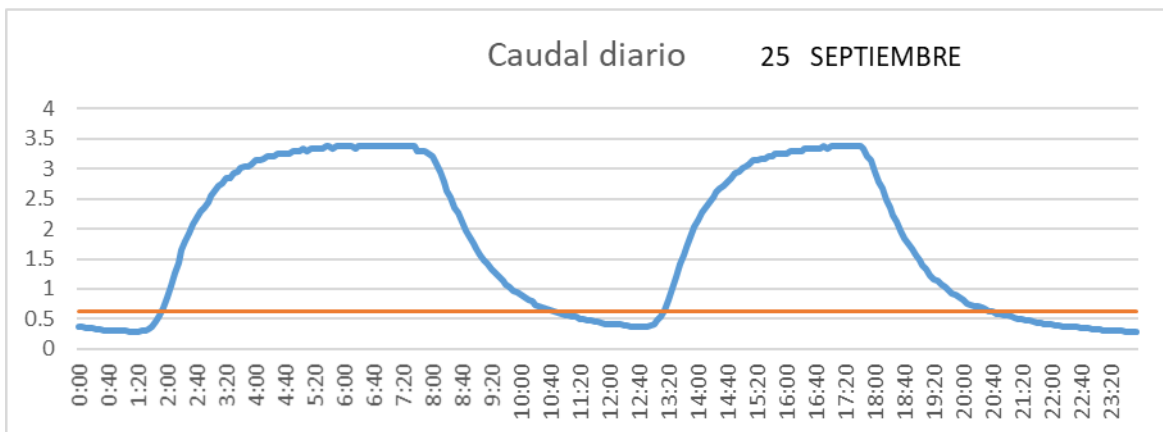
SAN LORENZO PARRILLA



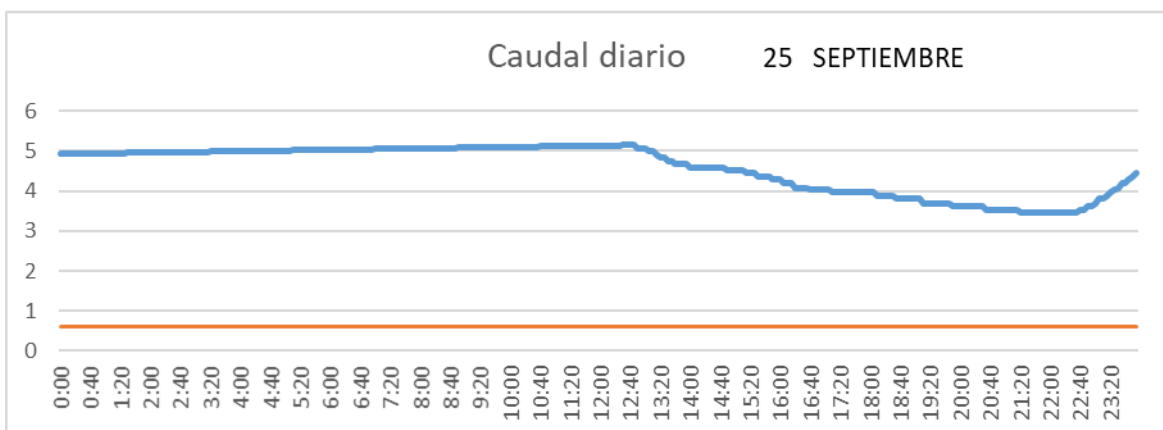
SALIDA TOBA



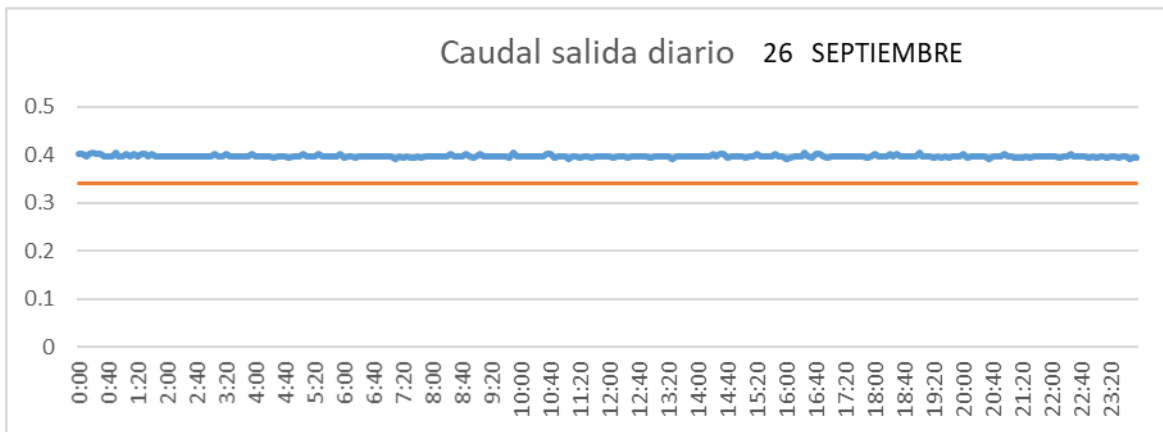
CUENCA



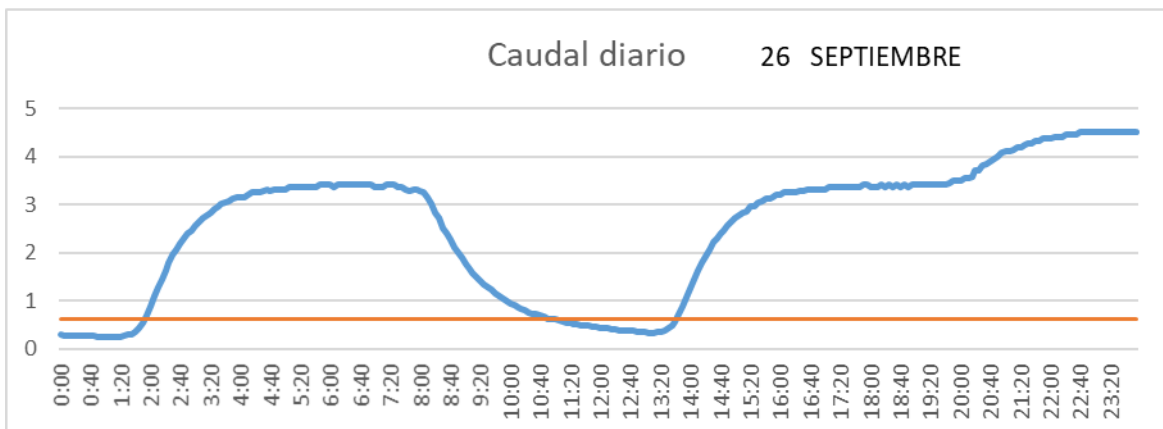
SAN LORENZO PARRILLA



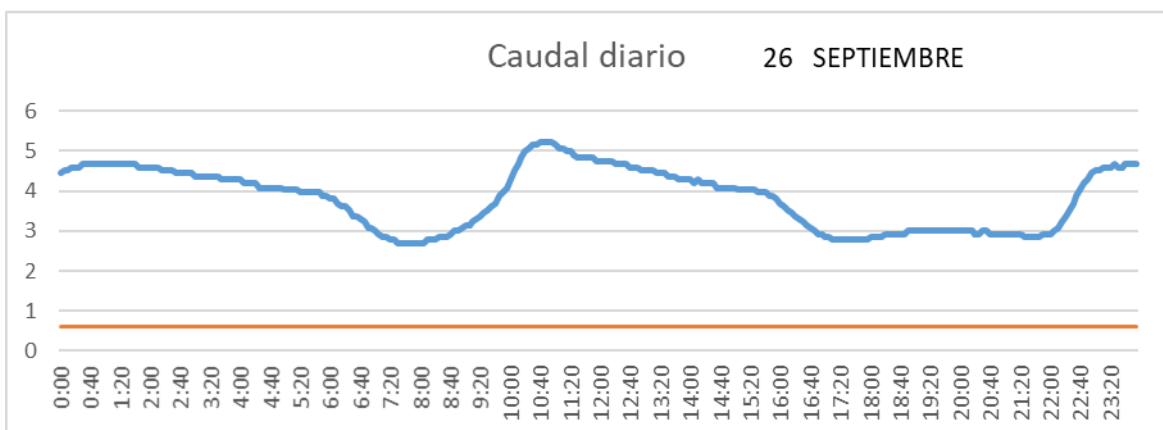
SALIDA TOBA



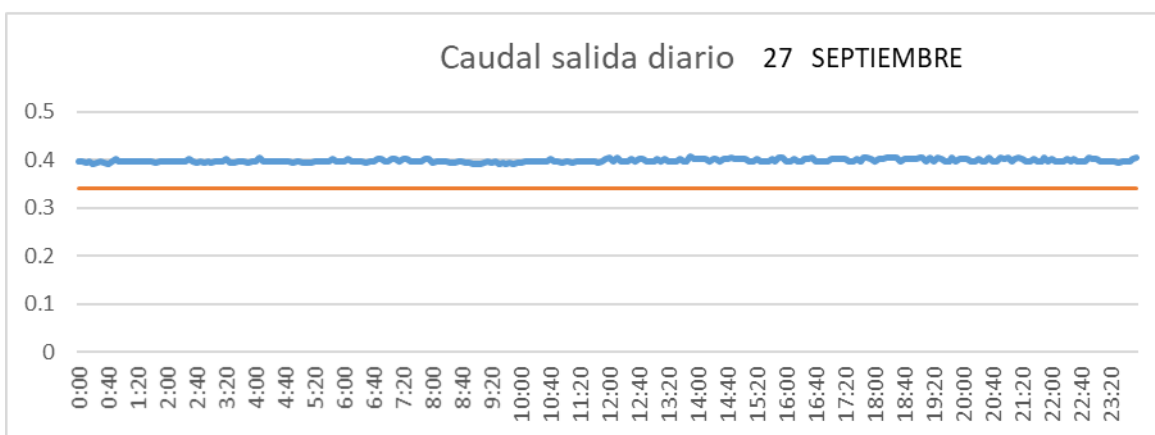
CUENCA



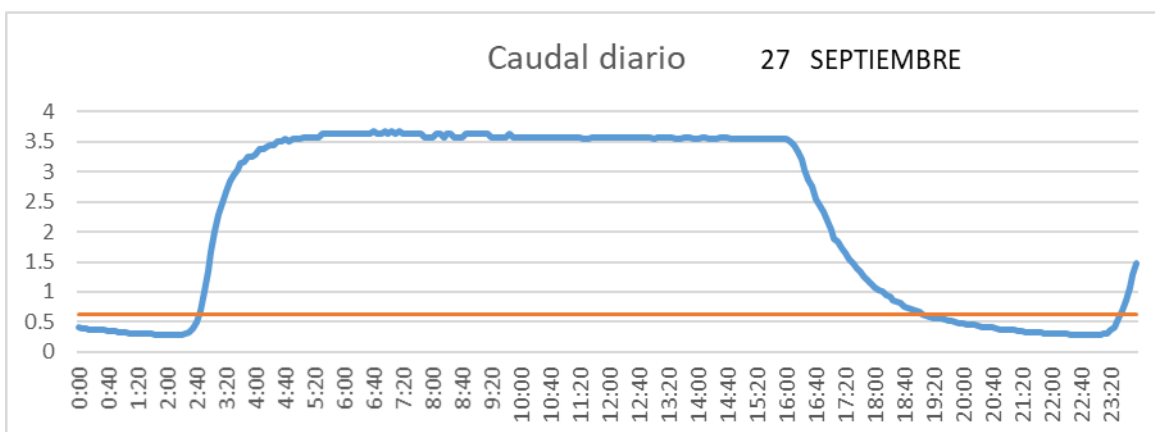
SAN LORENZO PARRILLA



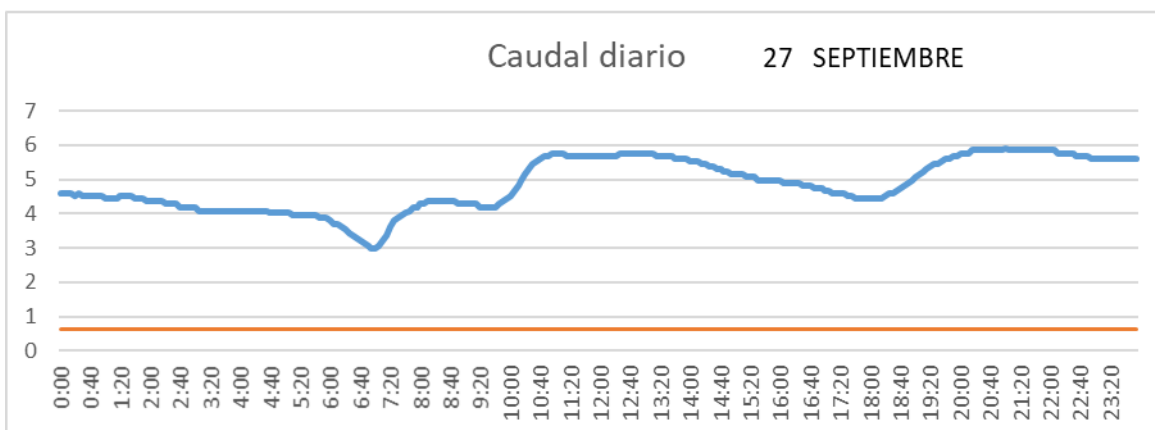
SALIDA TOBA



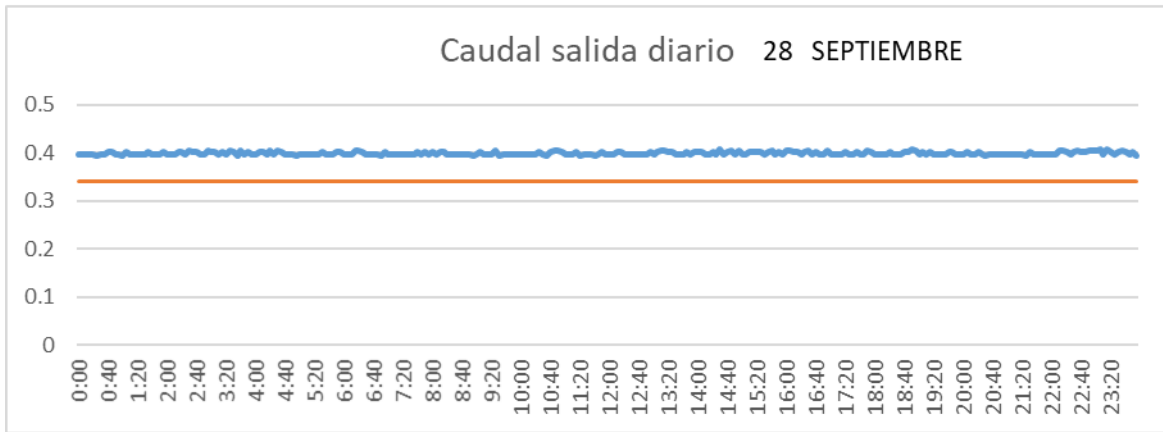
CUENCA



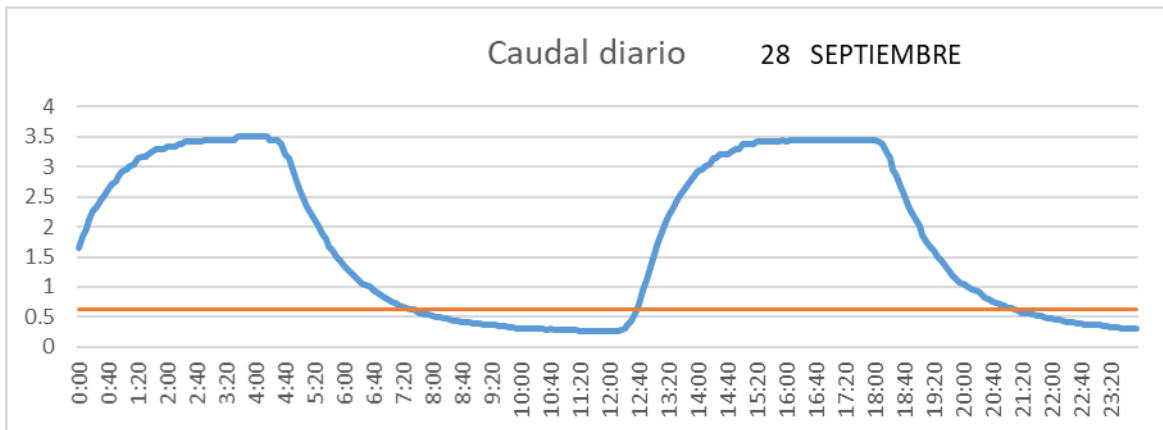
SAN LORENZO PARRILLA



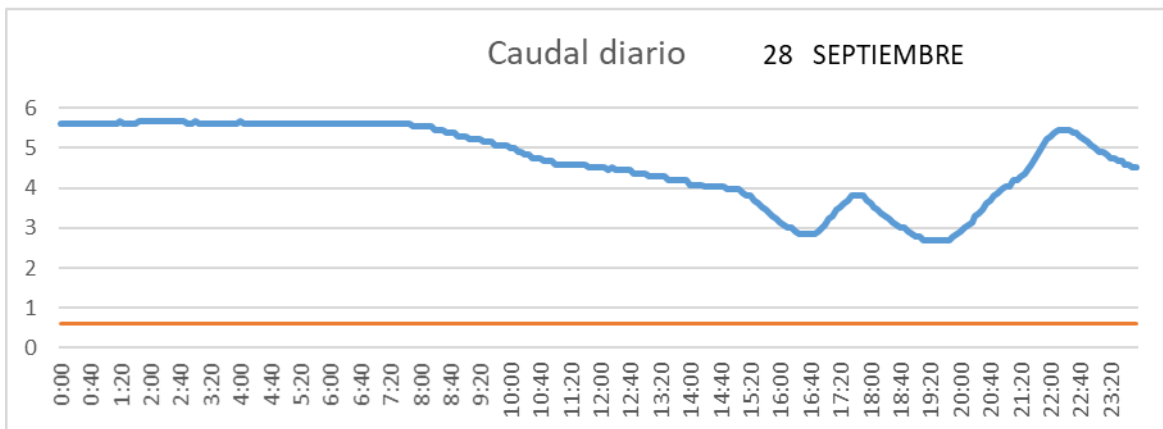
SALIDA TOBA



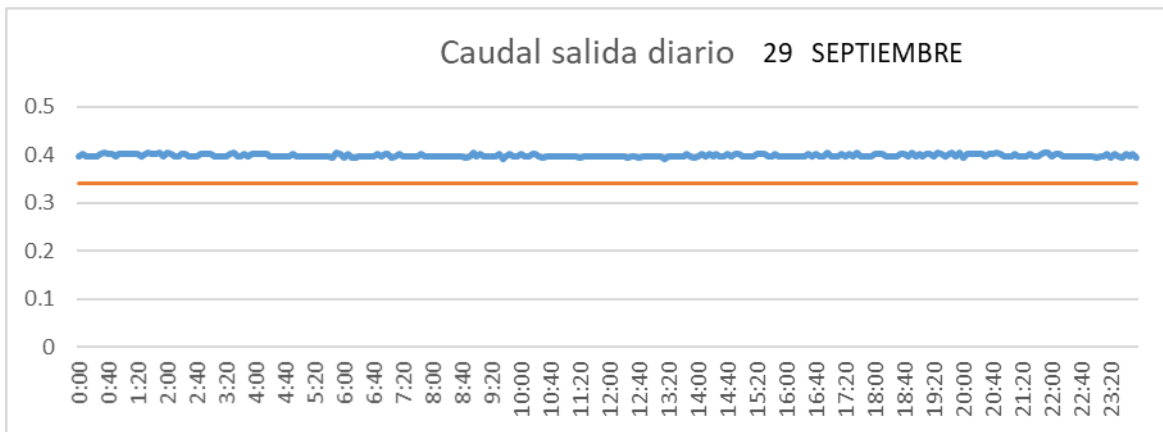
CUENCA



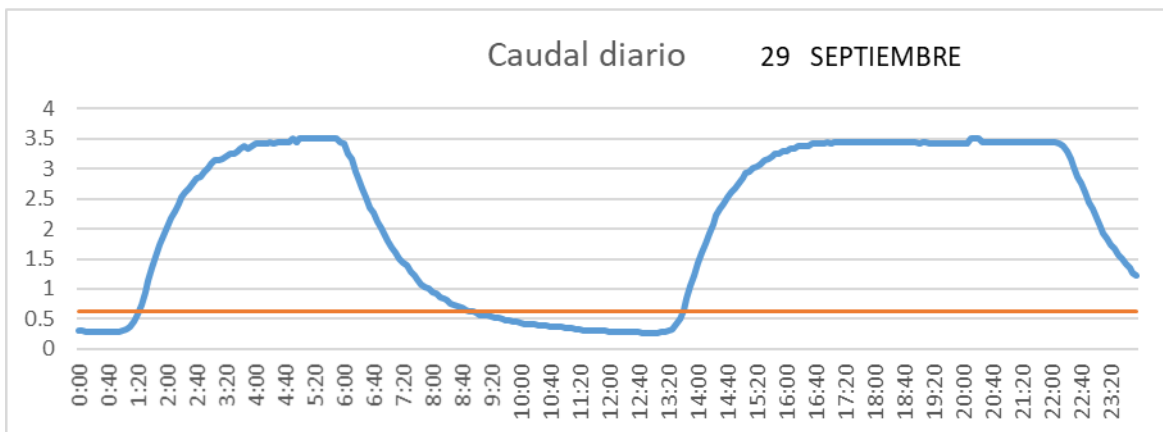
SAN LORENZO PARRILLA



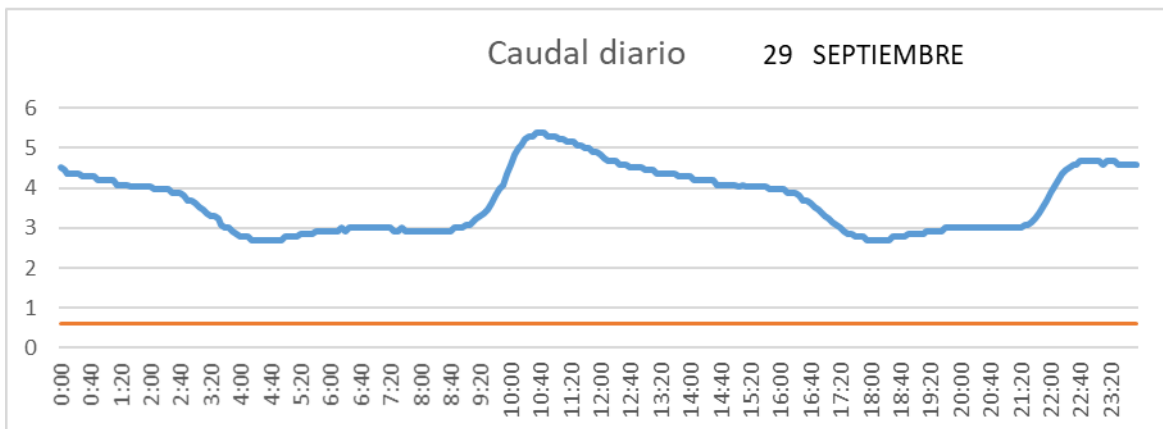
SALIDA TOBA



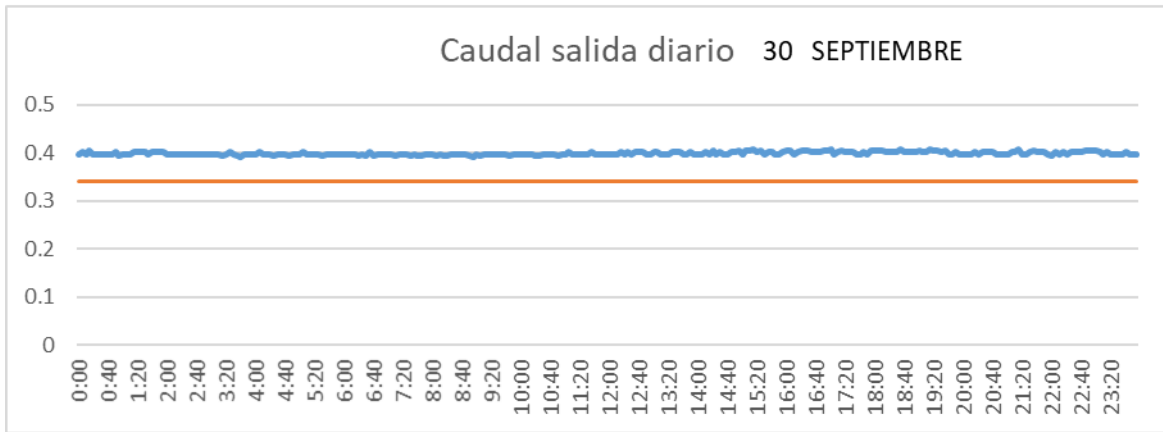
CUENCA



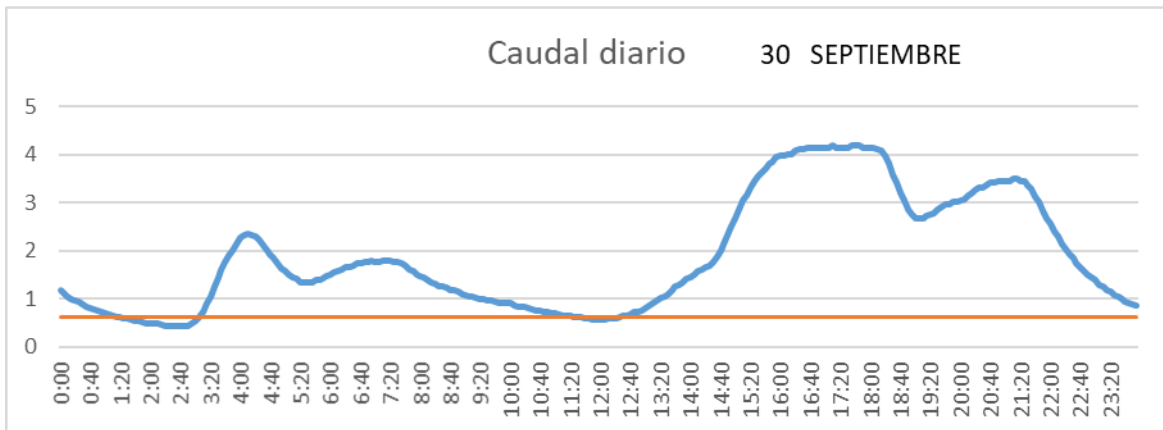
SAN LORENZO PARRILLA



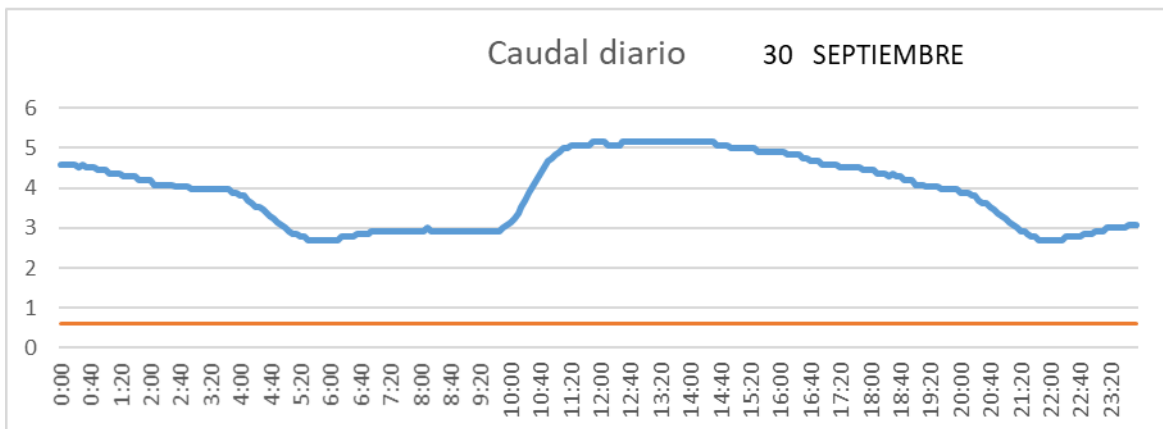
SALIDA TOBA



CUENCA

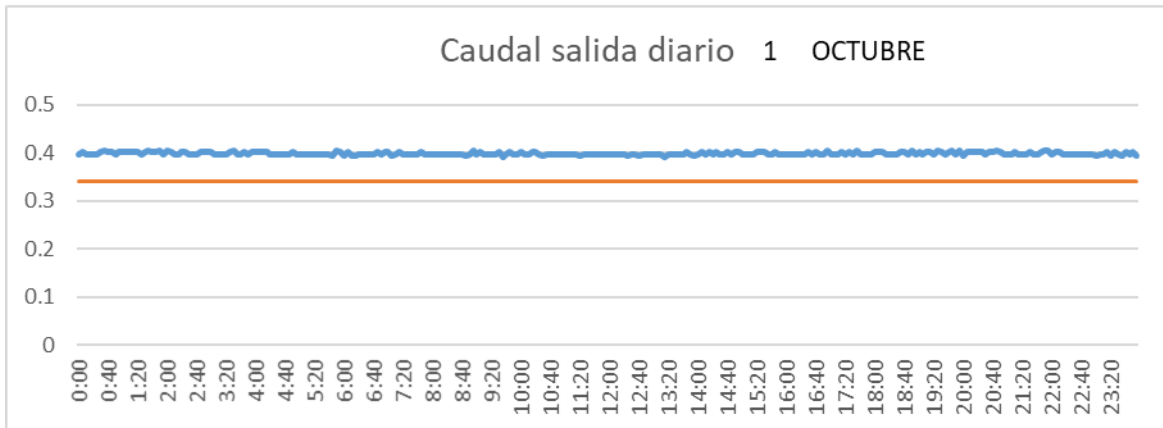


SAN LORENZO PARRILLA

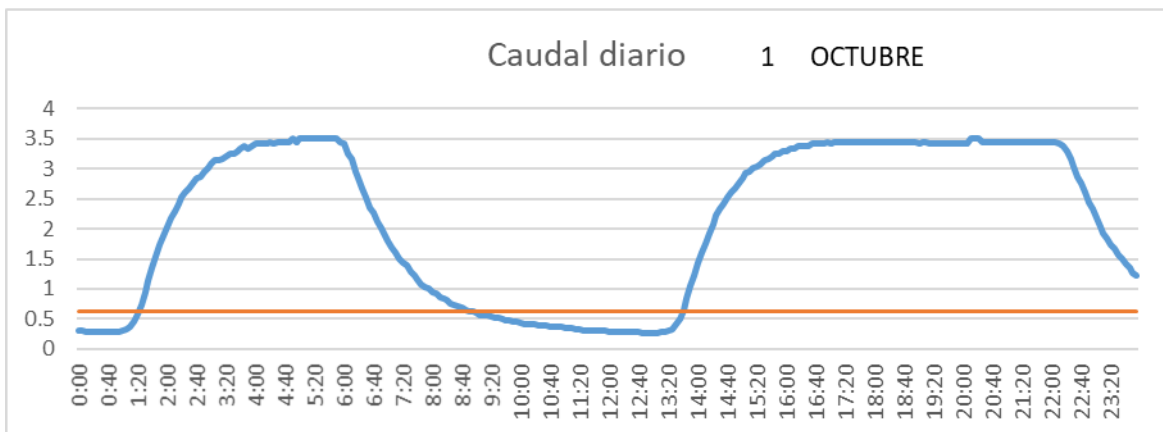


2.1.10 Octubre

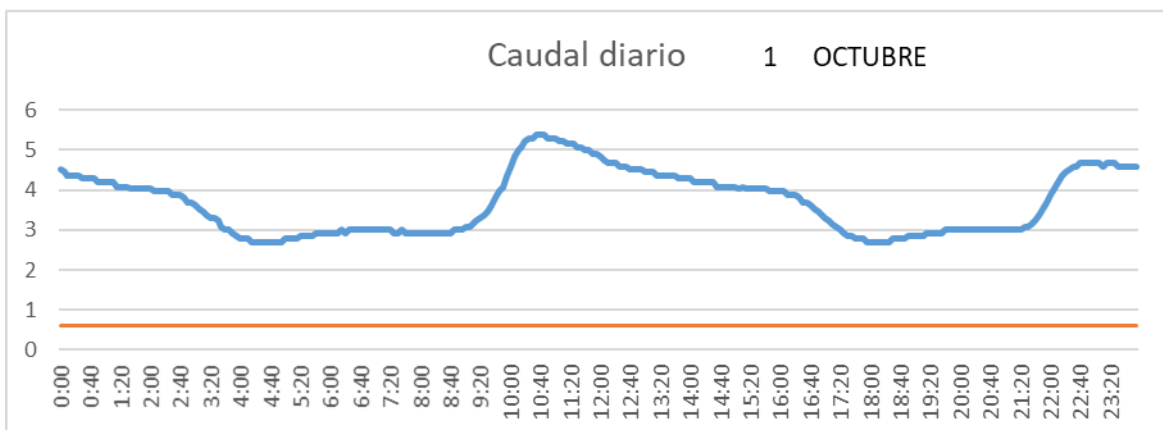
SALIDA TOBA



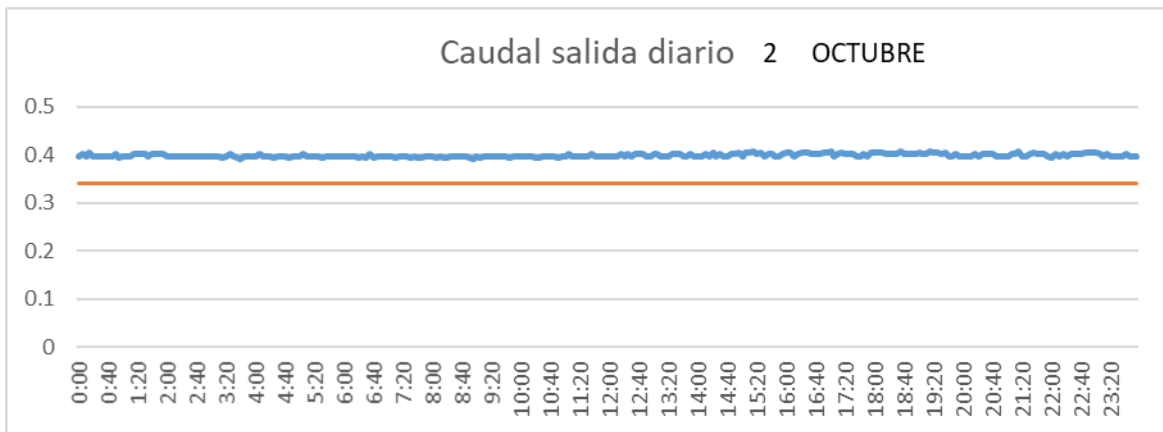
CUENCA



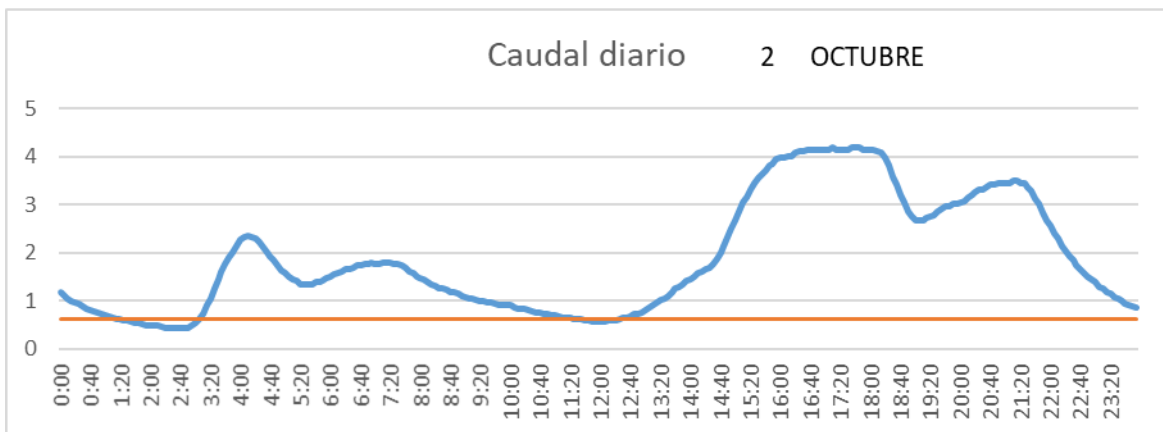
SAN LORENZO PARRILLA



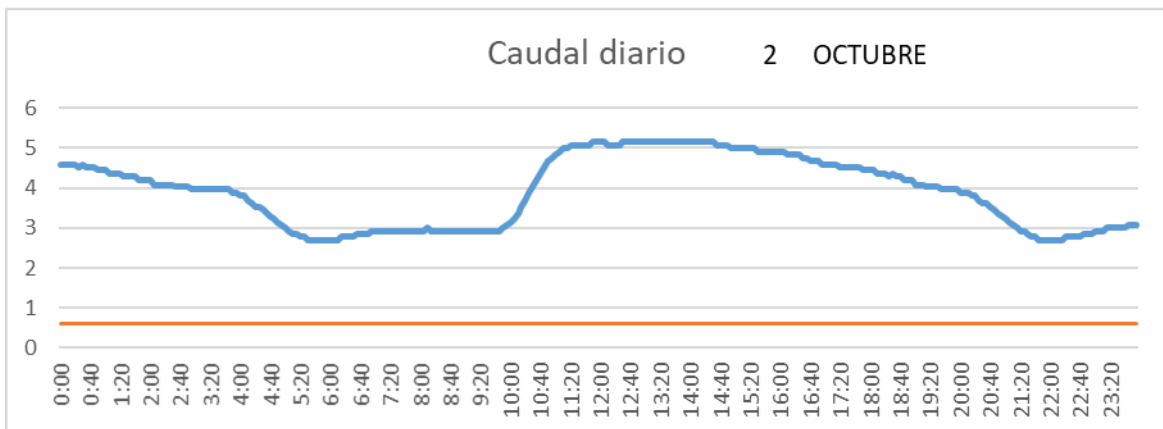
SALIDA TOBA



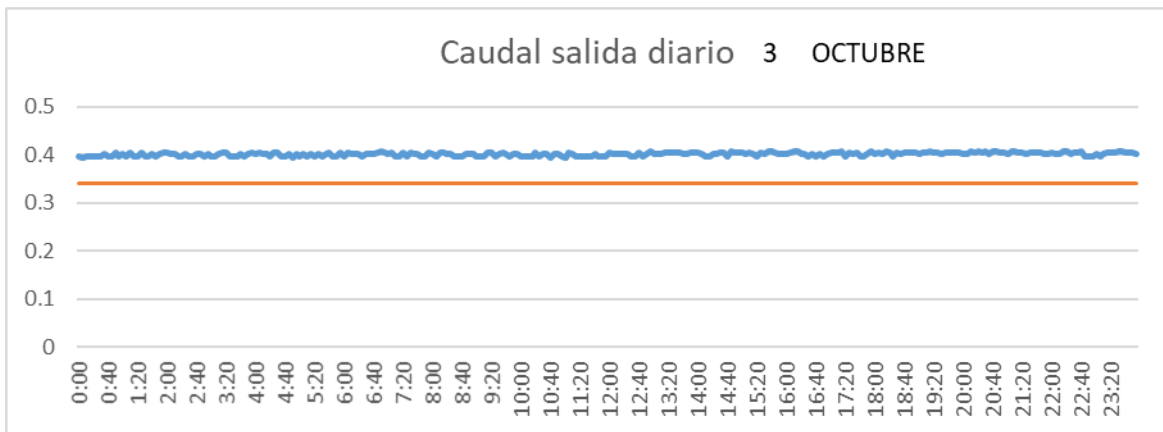
CUENCA



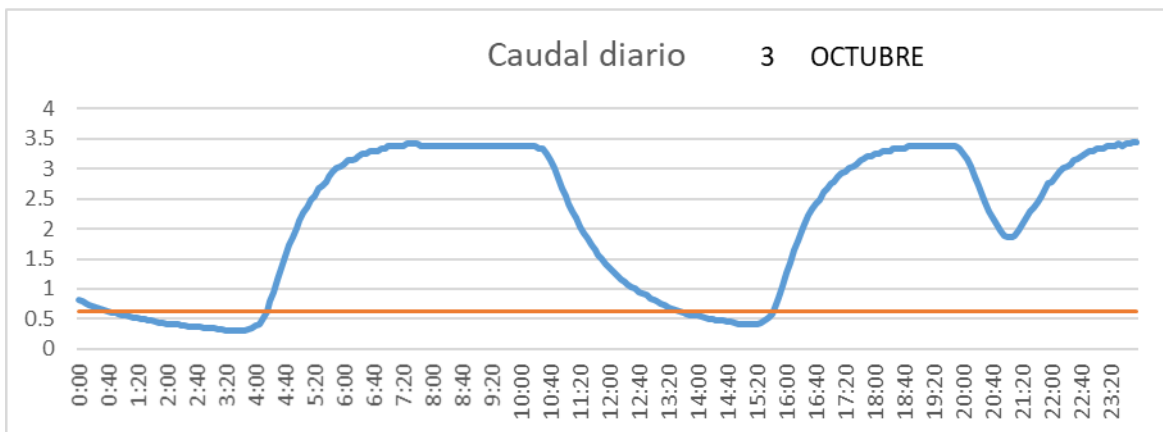
SAN LORENZO PARRILLA



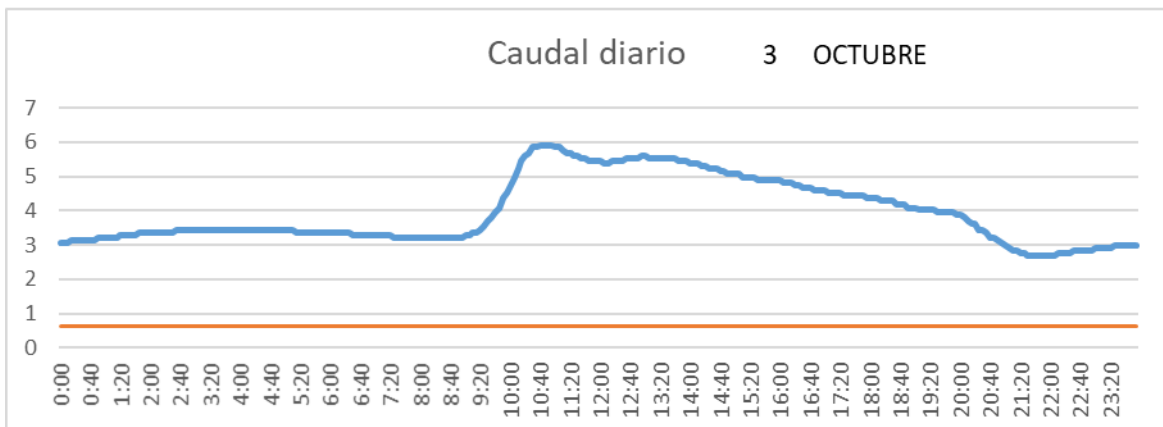
SALIDA TOBA



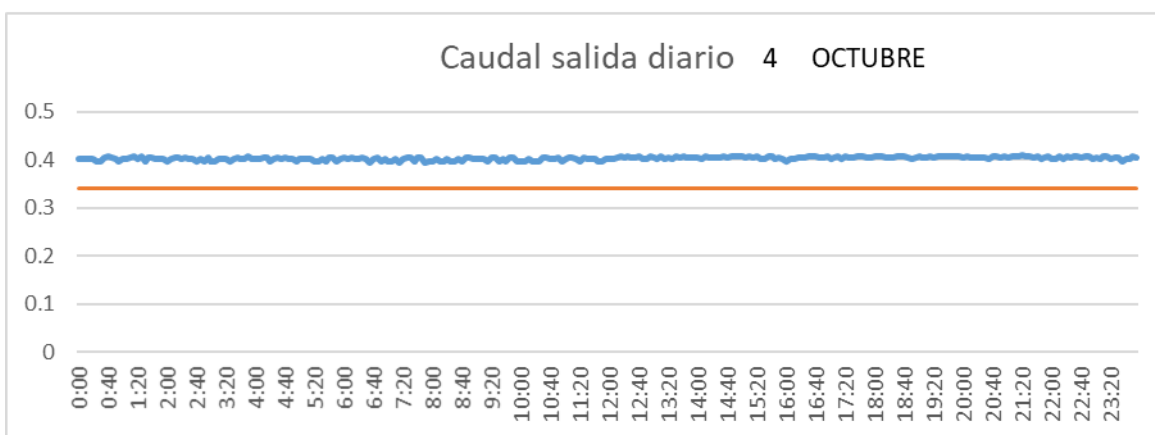
CUENCA



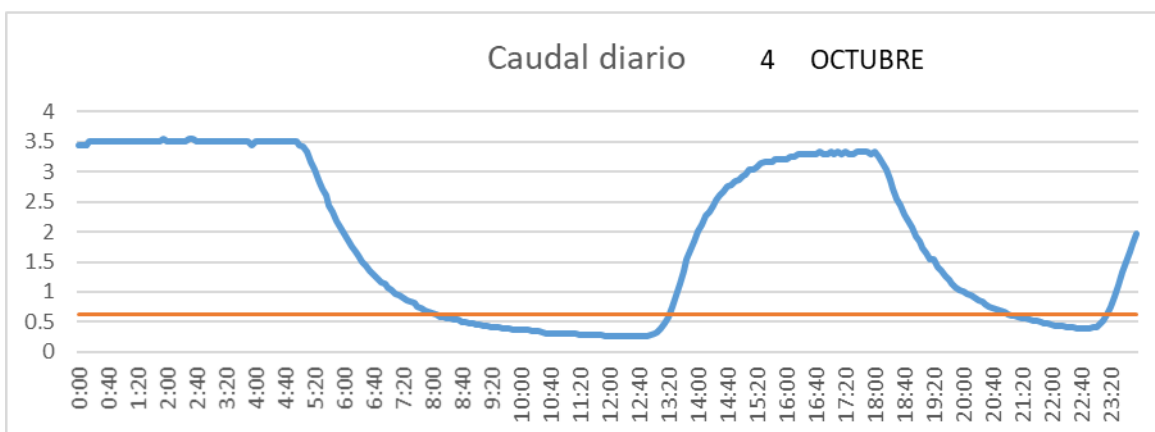
SAN LORENZO PARRILLA



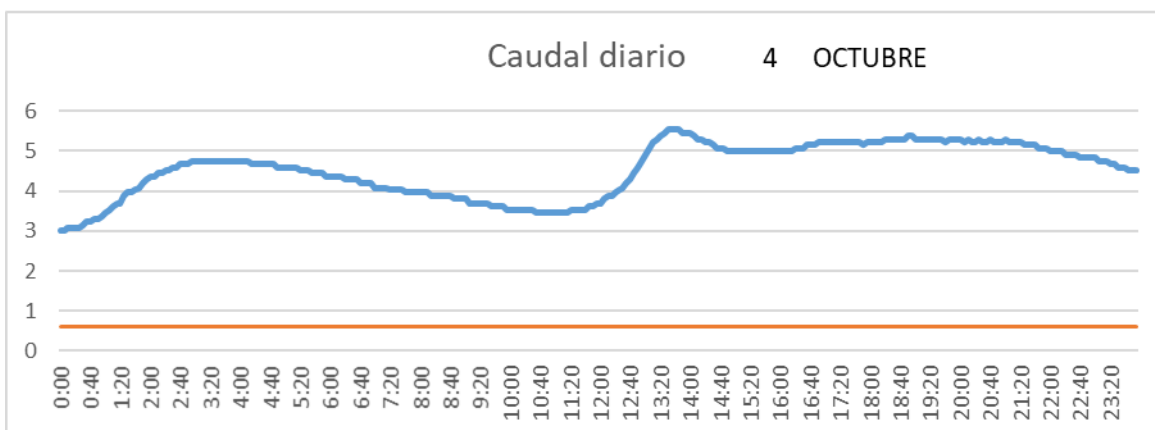
SALIDA TOBA



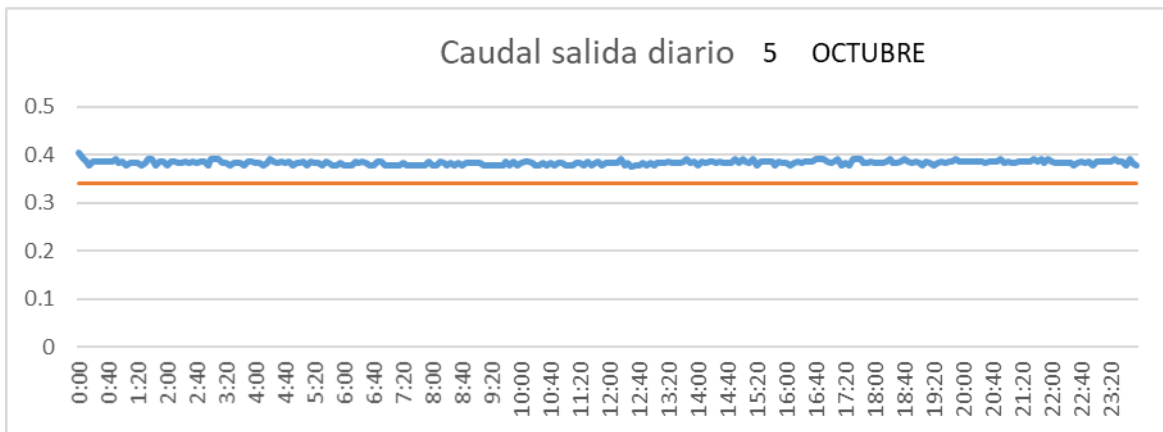
CUENCA



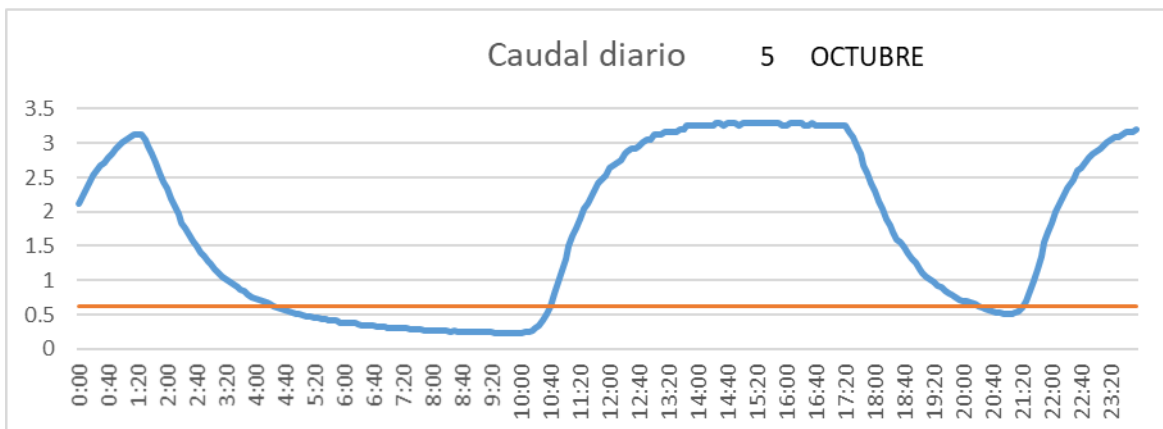
SAN LORENZO PARRILLA



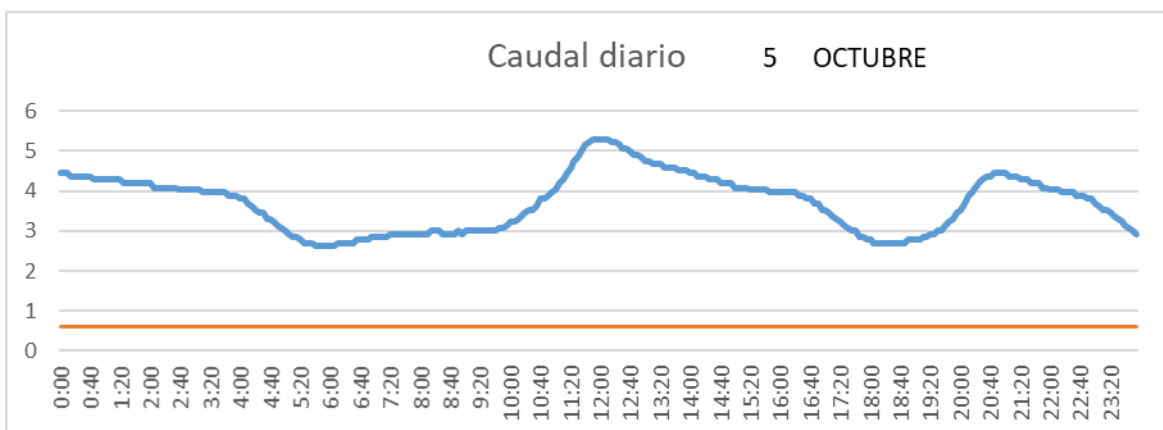
SALIDA TOBA



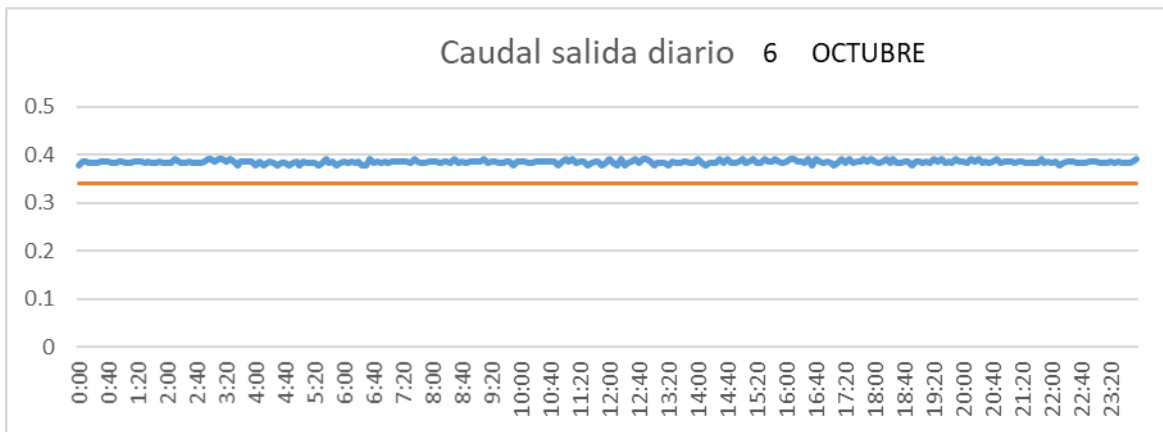
CUENCA



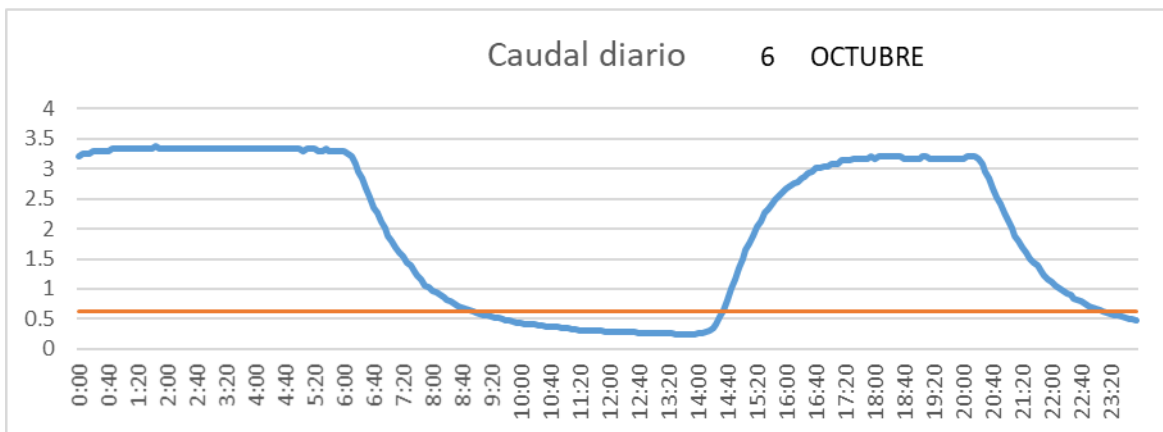
SAN LORENZO PARRILLA



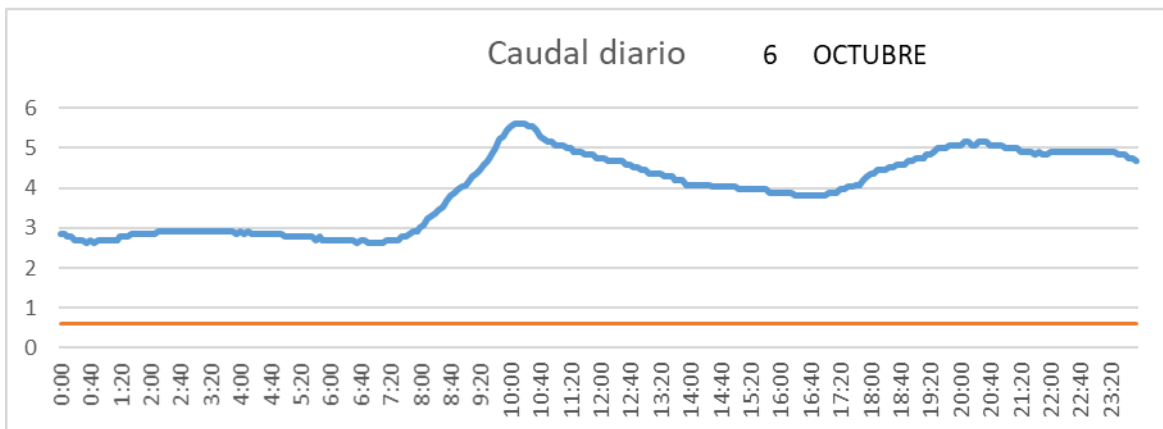
SALIDA TOBA



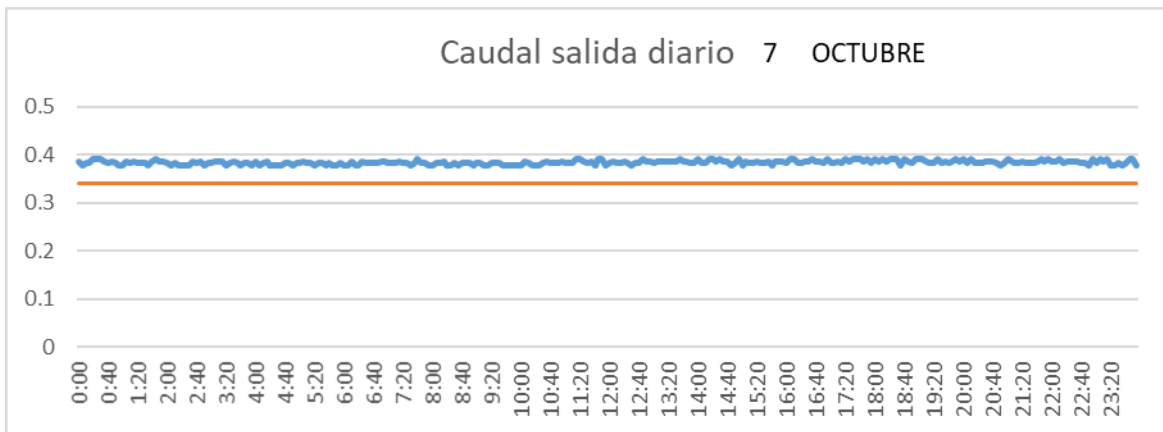
CUENCA



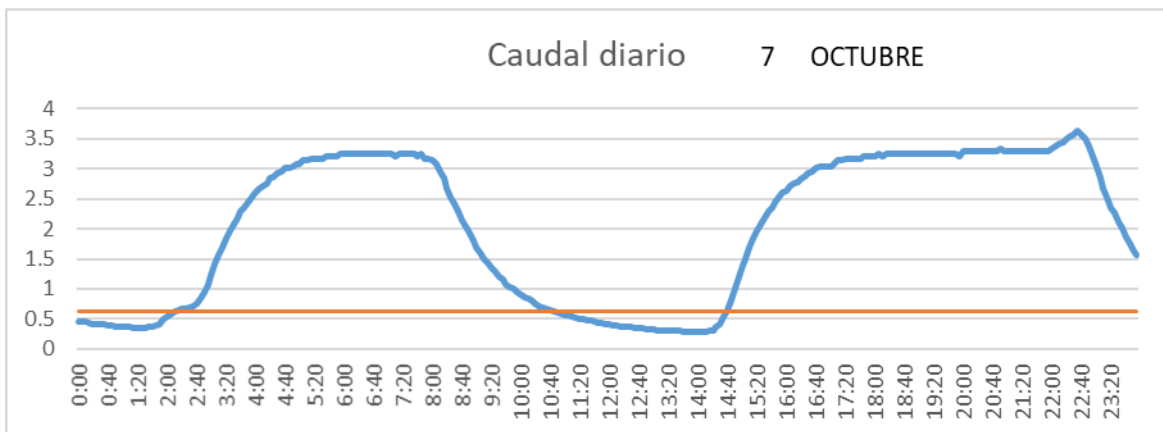
SAN LORENZO PARRILLA



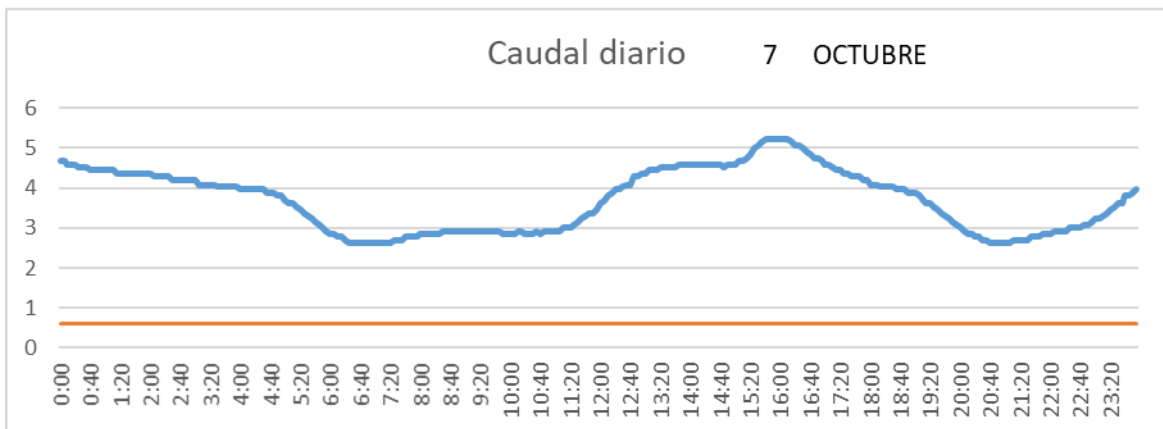
SALIDA TOBA



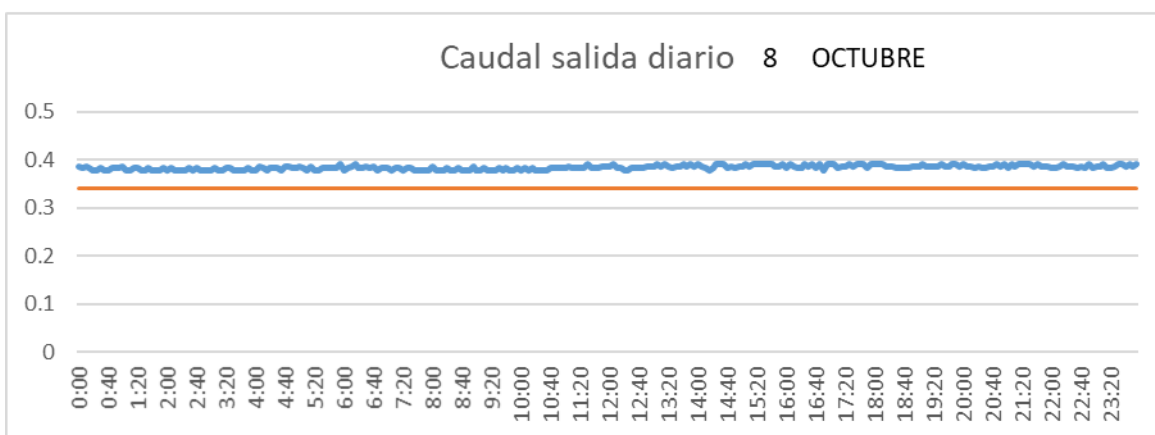
CUENCA



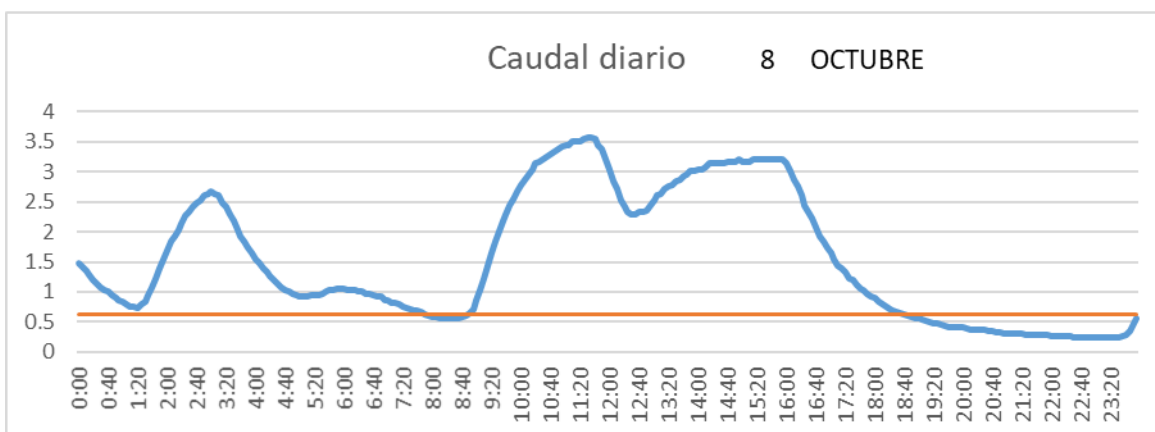
SAN LORENZO PARRILLA



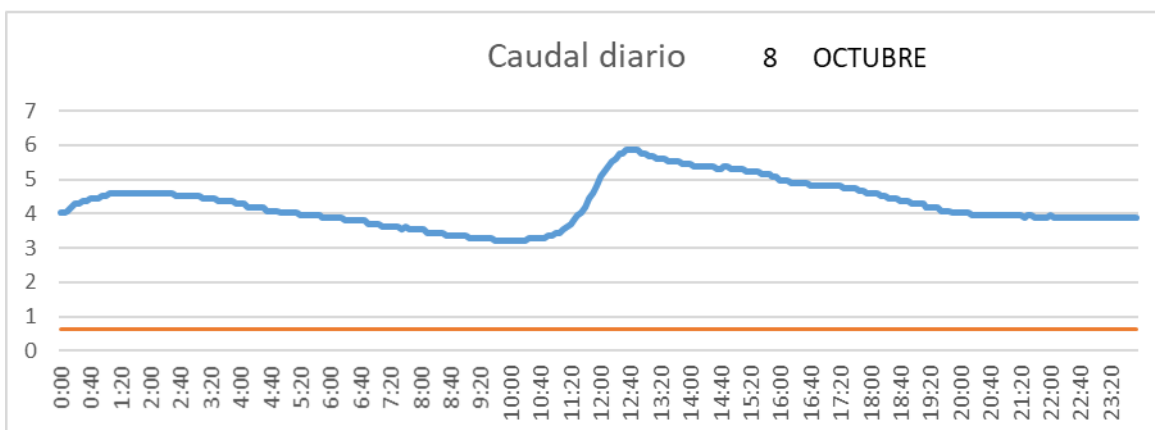
SALIDA TOBA



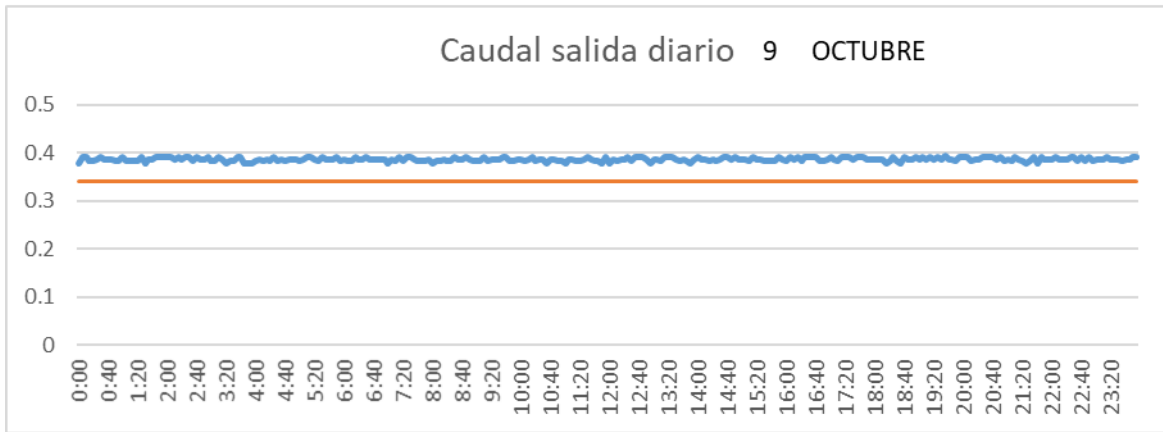
CUENCA



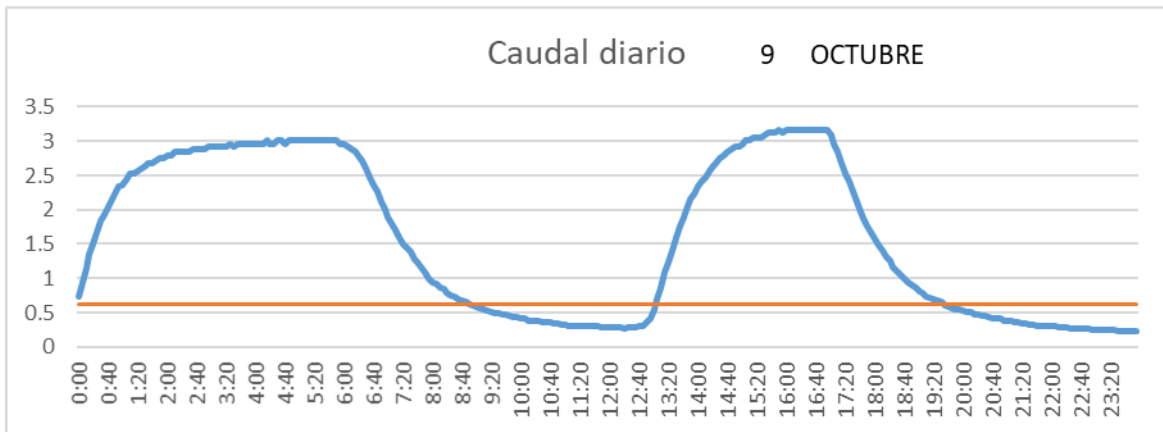
SAN LORENZO PARRILLA



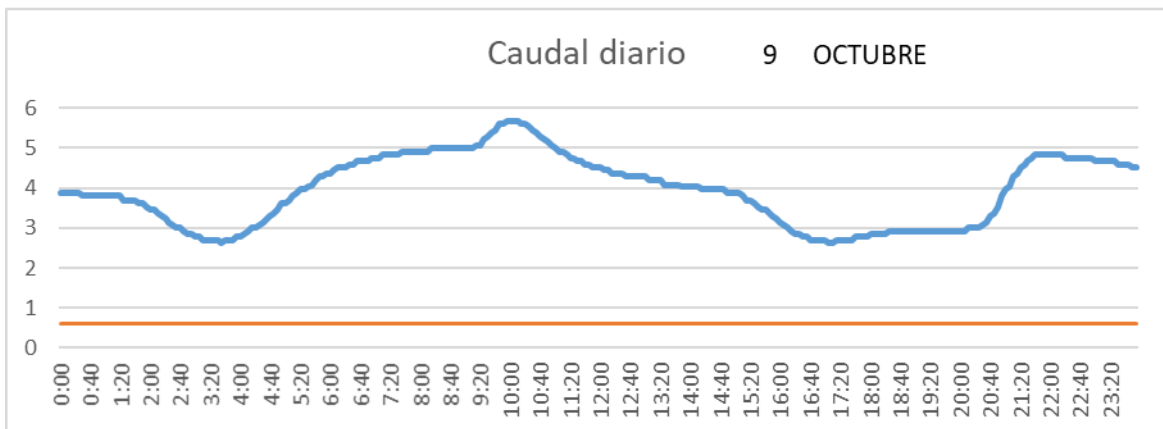
SALIDA TOBA



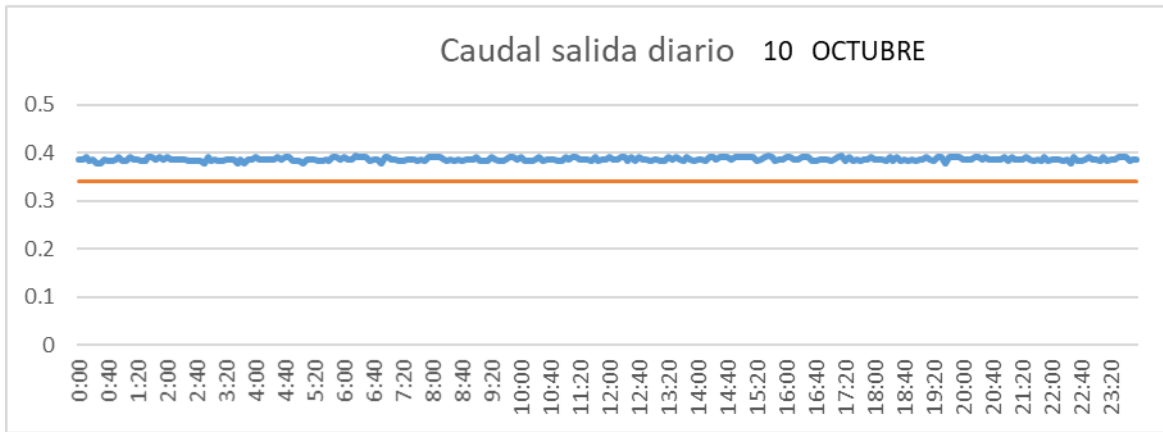
CUENCA



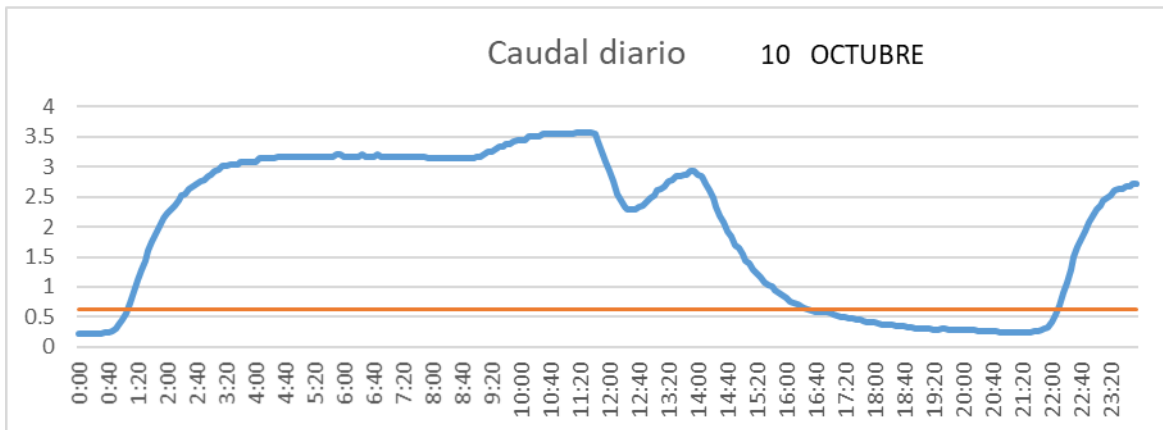
SAN LORENZO PARRILLA



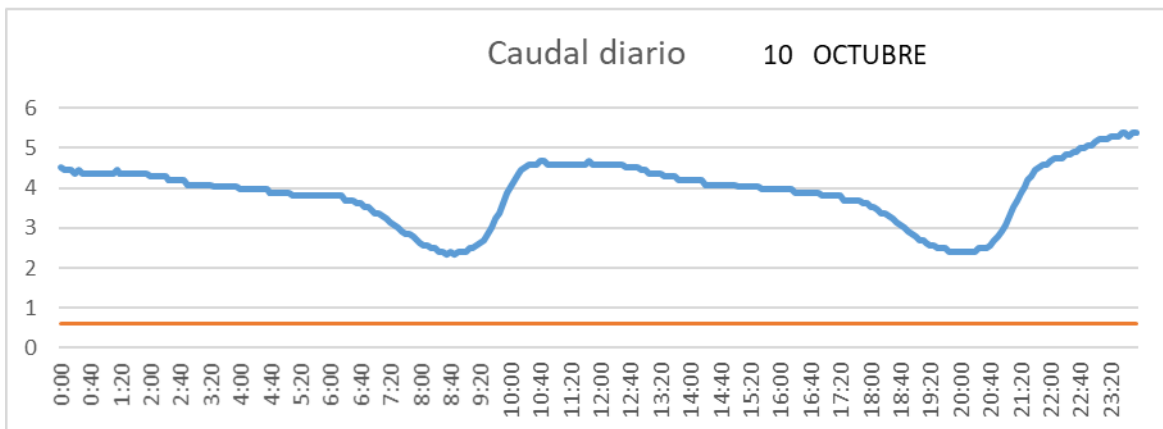
SALIDA TOBA



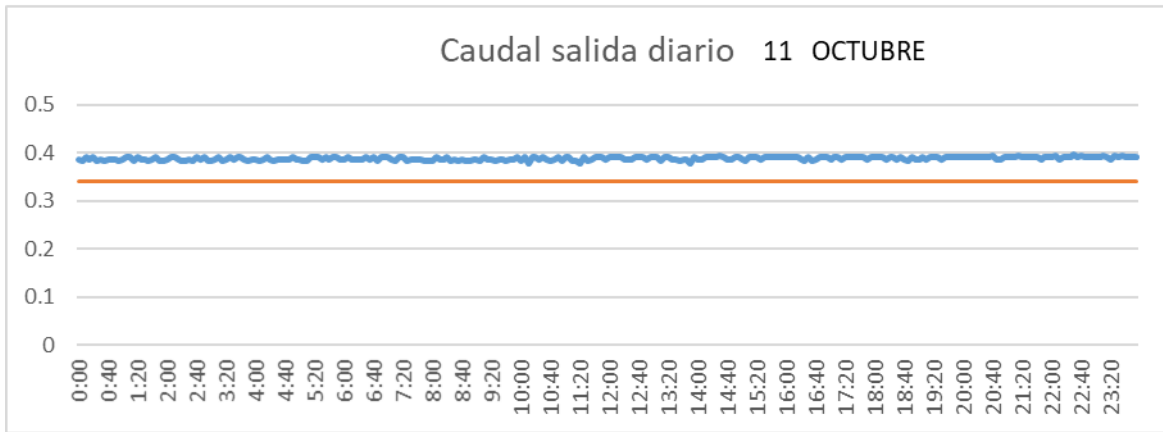
CUENCA



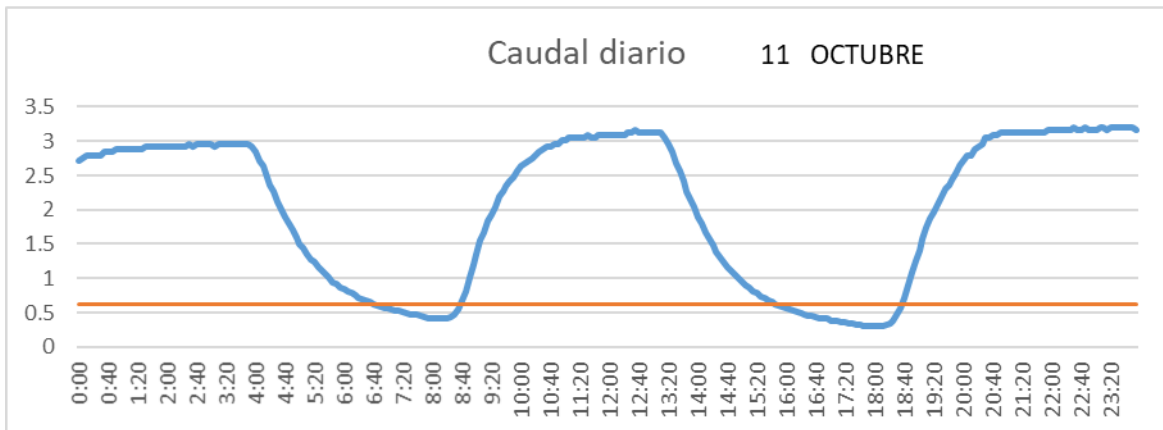
SAN LORENZO PARRILLA



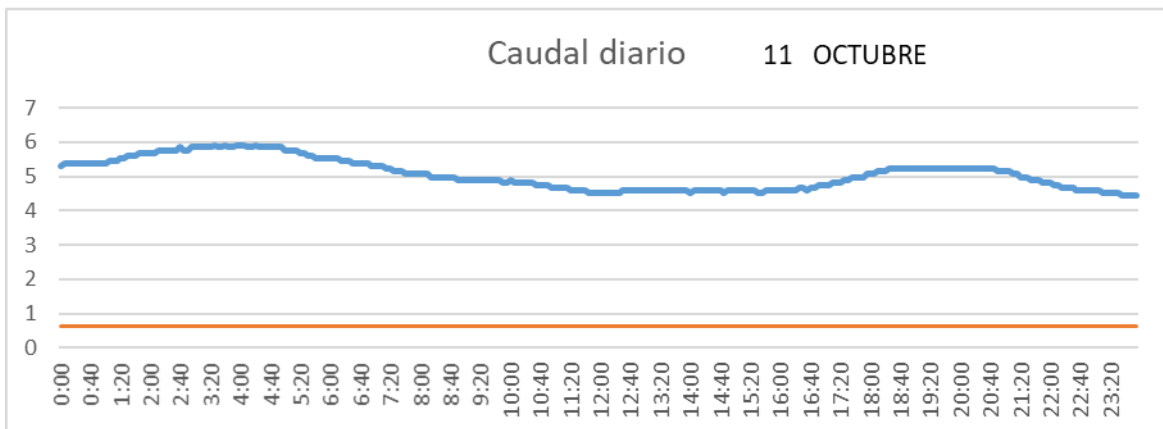
SALIDA TOBA



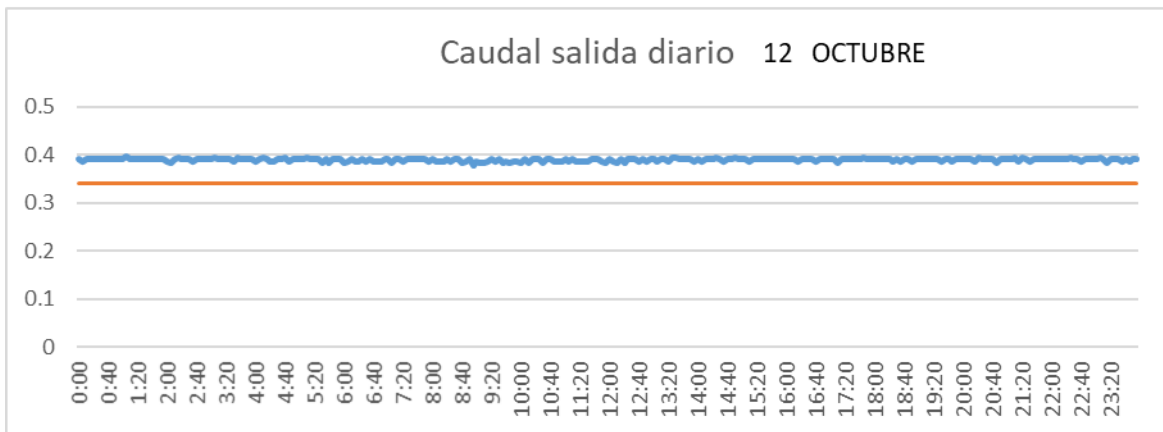
CUENCA



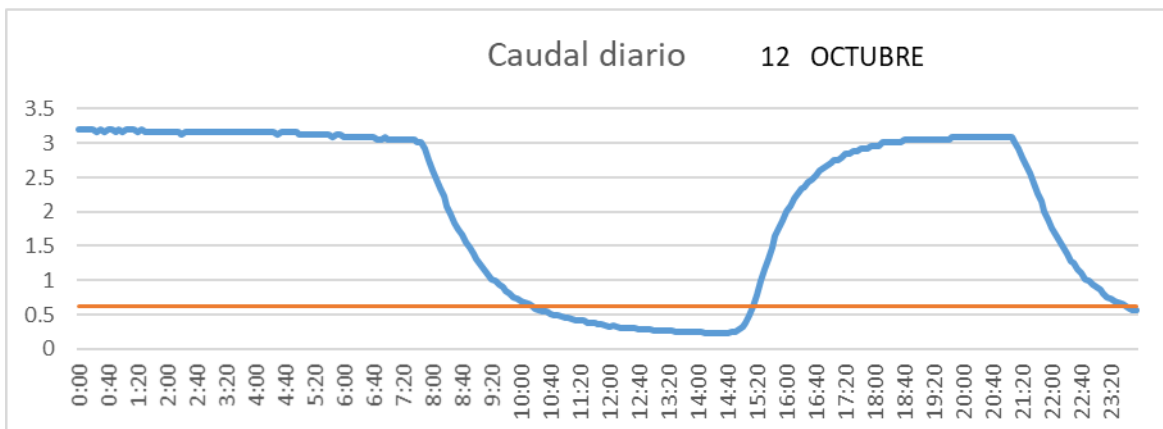
SAN LORENZO PARRILLA



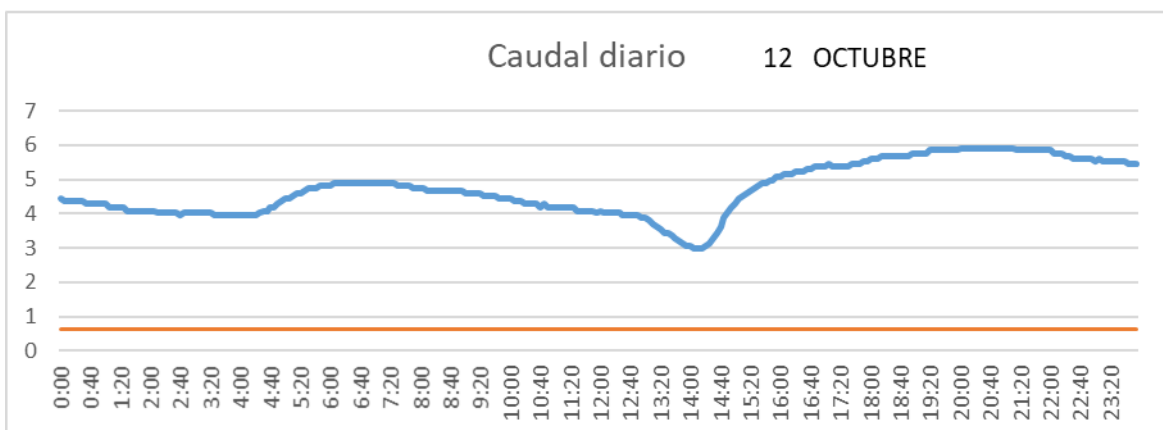
SALIDA TOBA



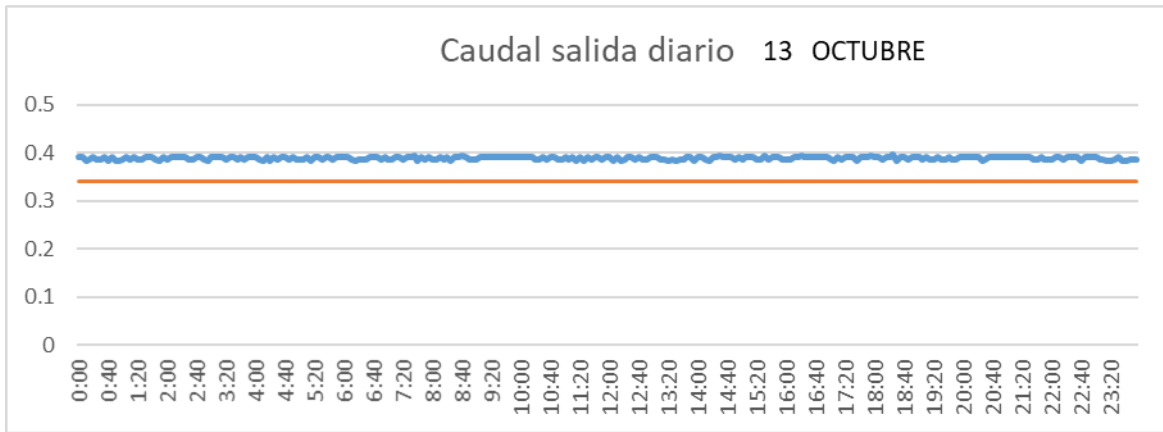
CUENCA



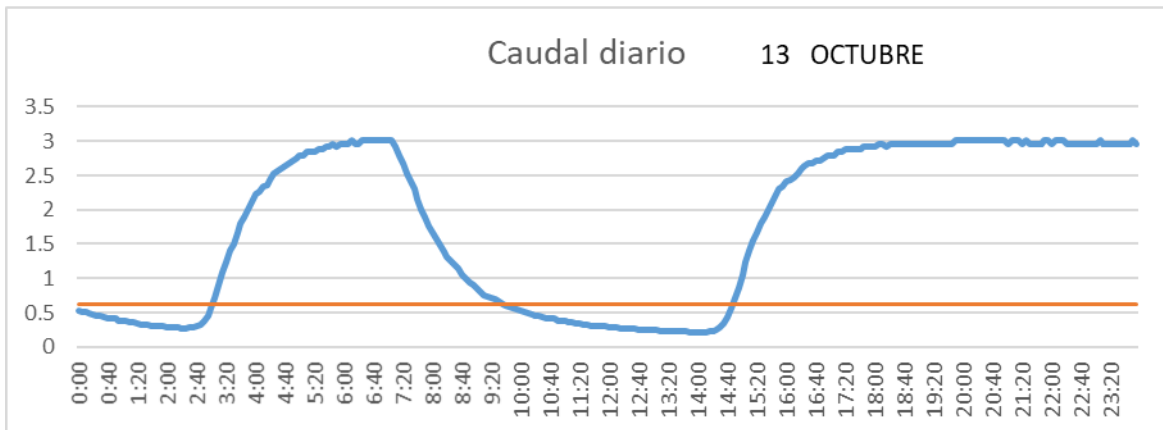
SAN LORENZO PARRILLA



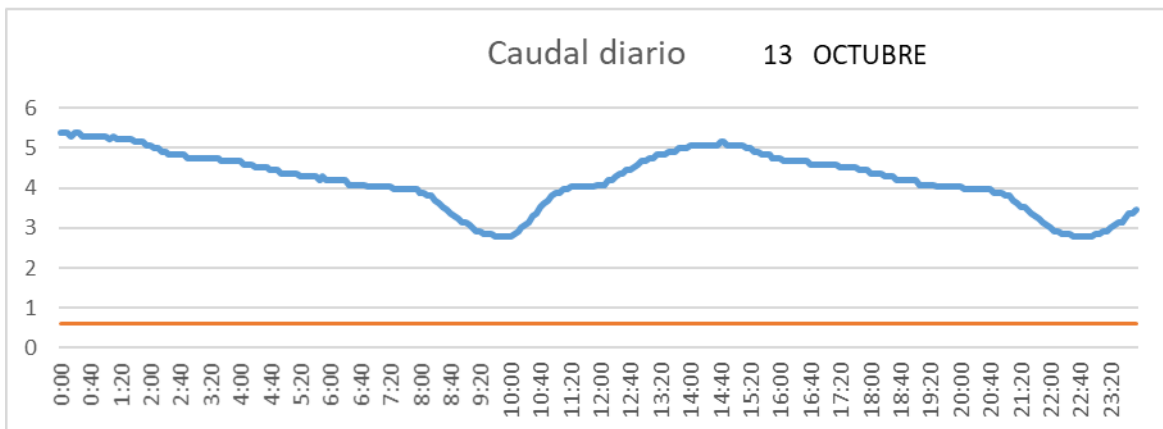
SALIDA TOBA



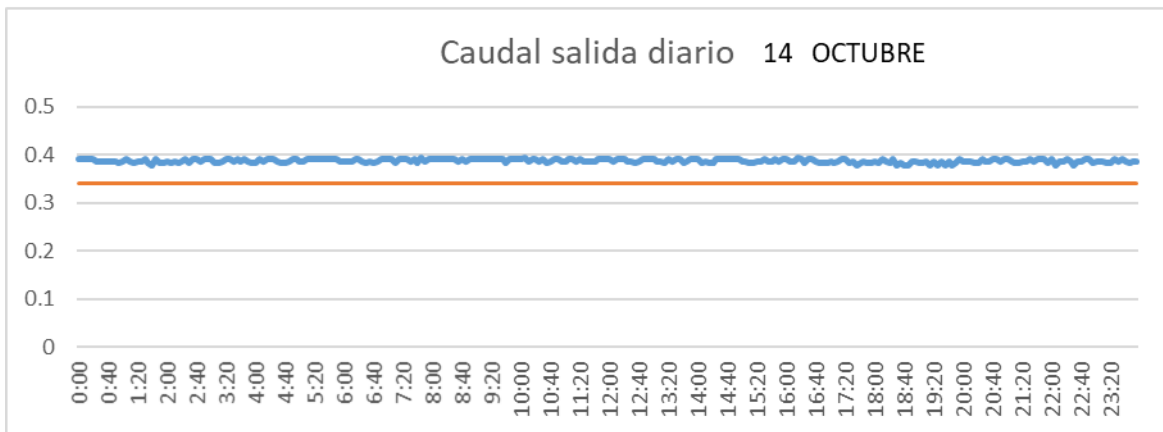
CUENCA



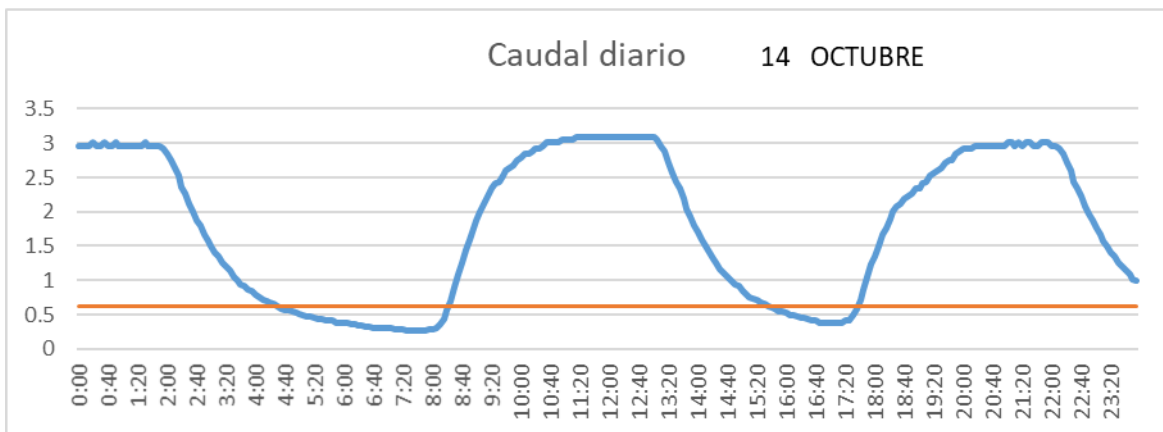
SAN LORENZO PARRILLA



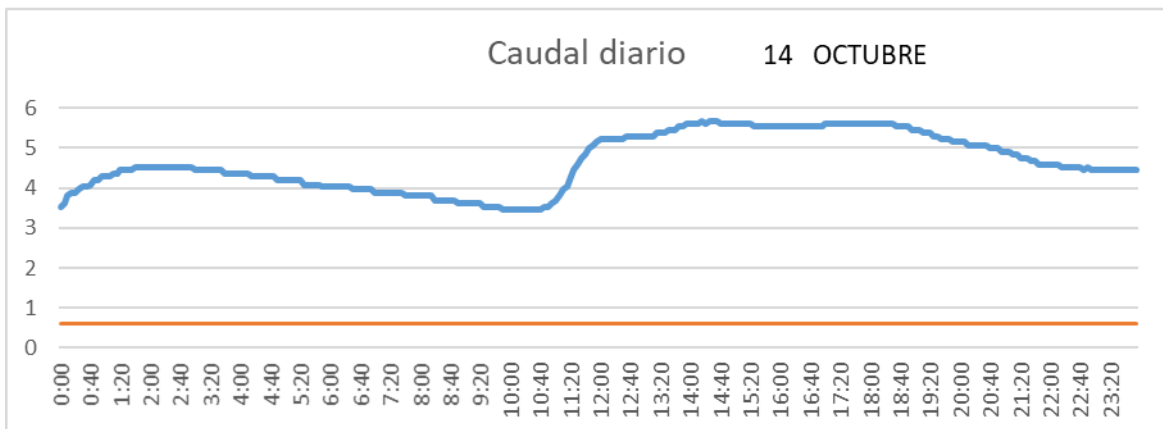
SALIDA TOBA



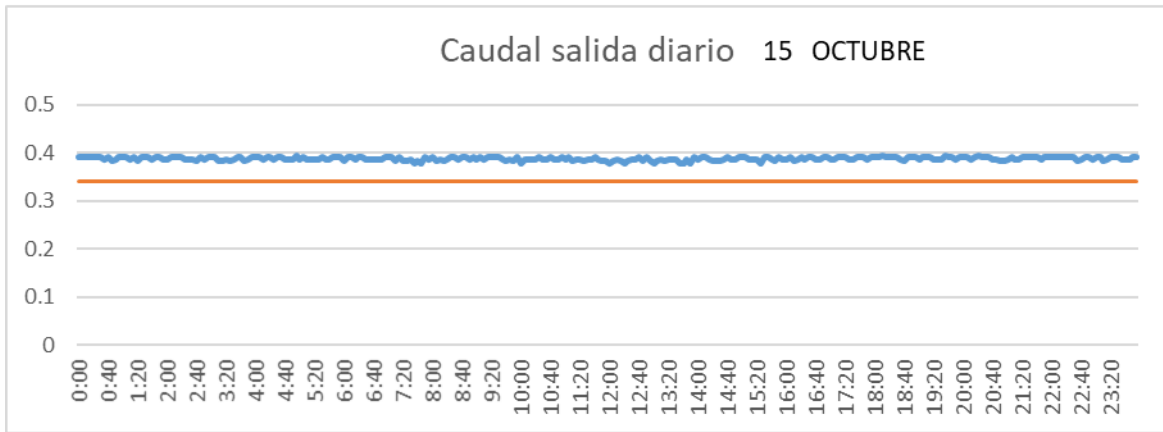
CUENCA



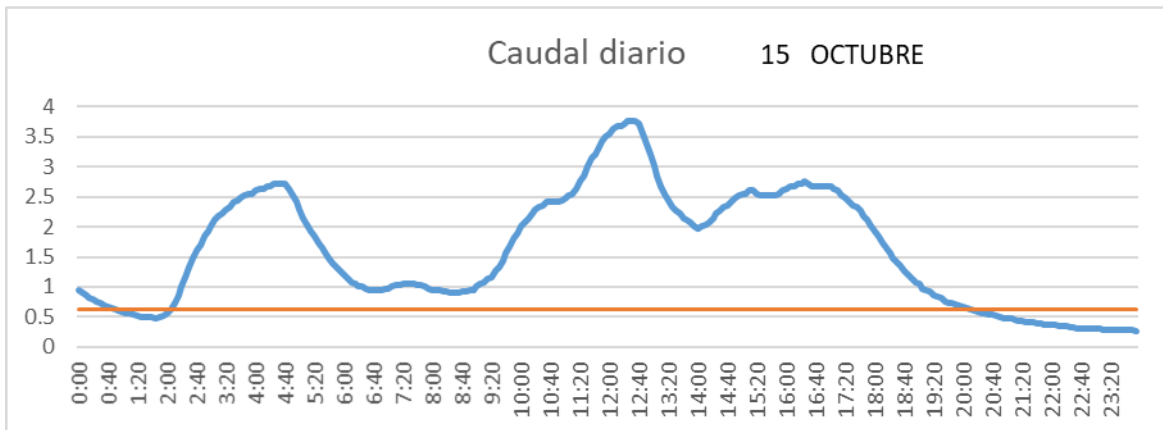
SAN LORENZO PARRILLA



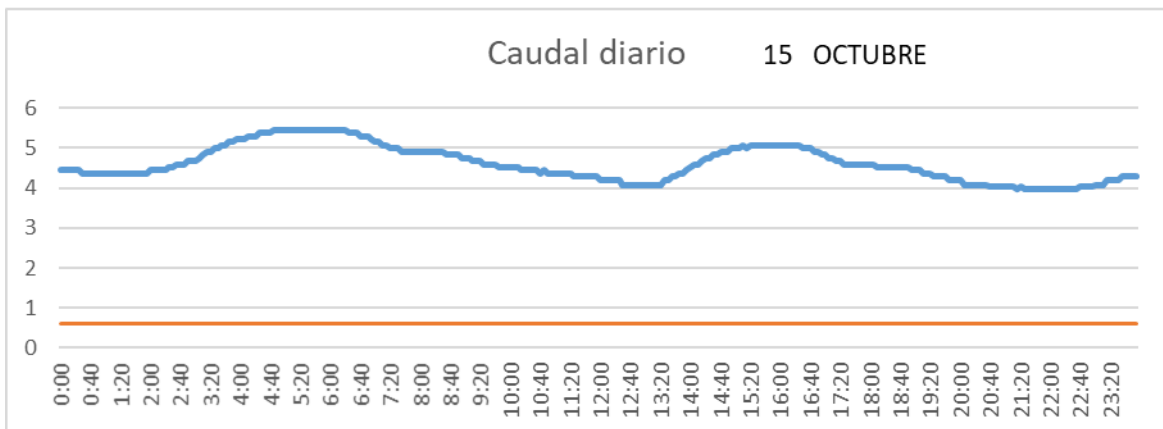
SALIDA TOBA



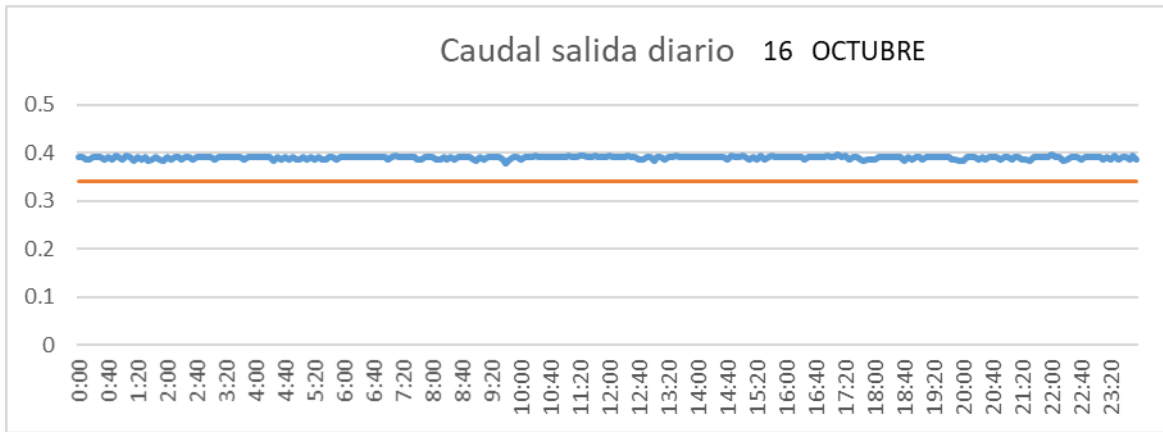
CUENCA



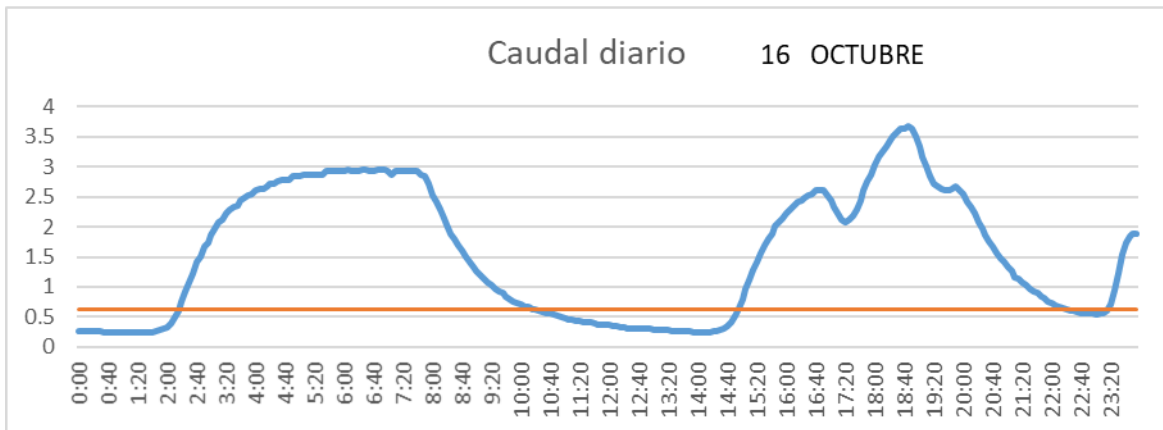
SAN LORENZO PARRILLA



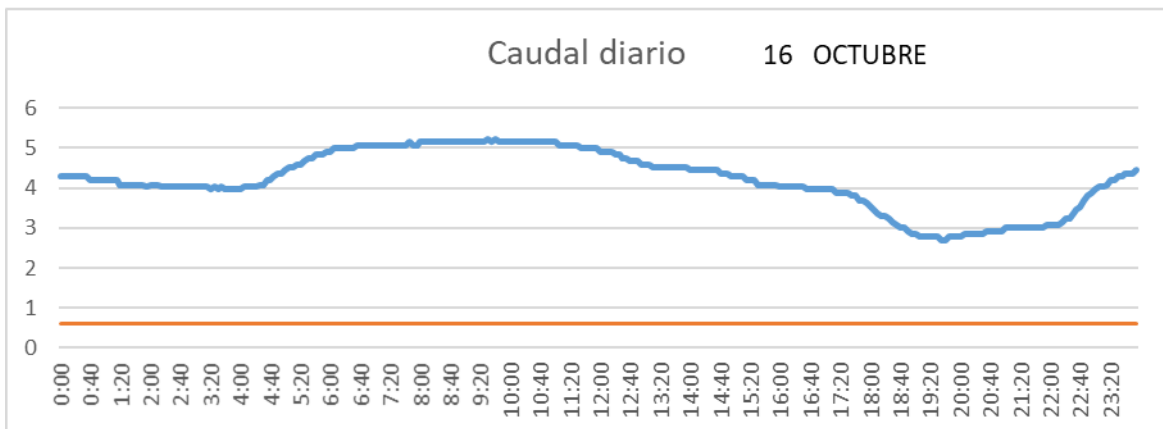
SALIDA TOBA



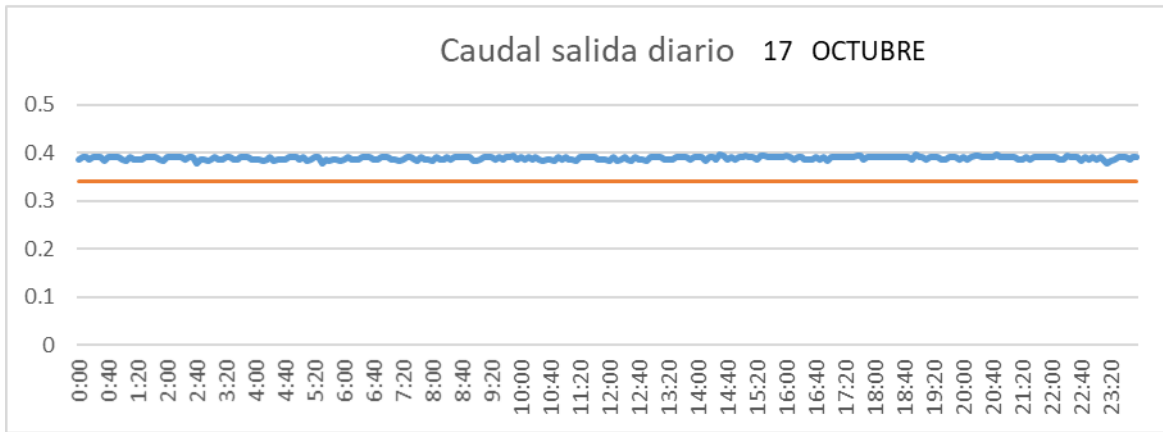
CUENCA



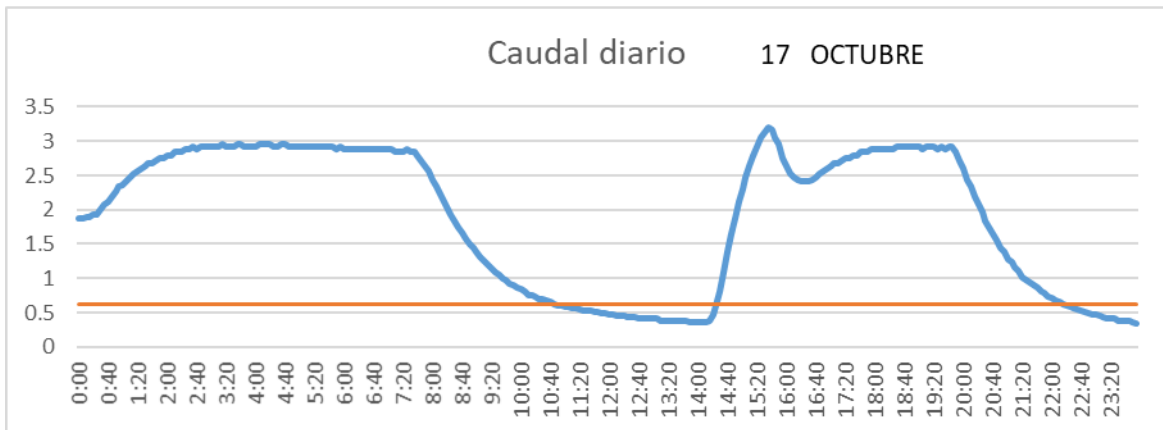
SAN LORENZO PARRILLA



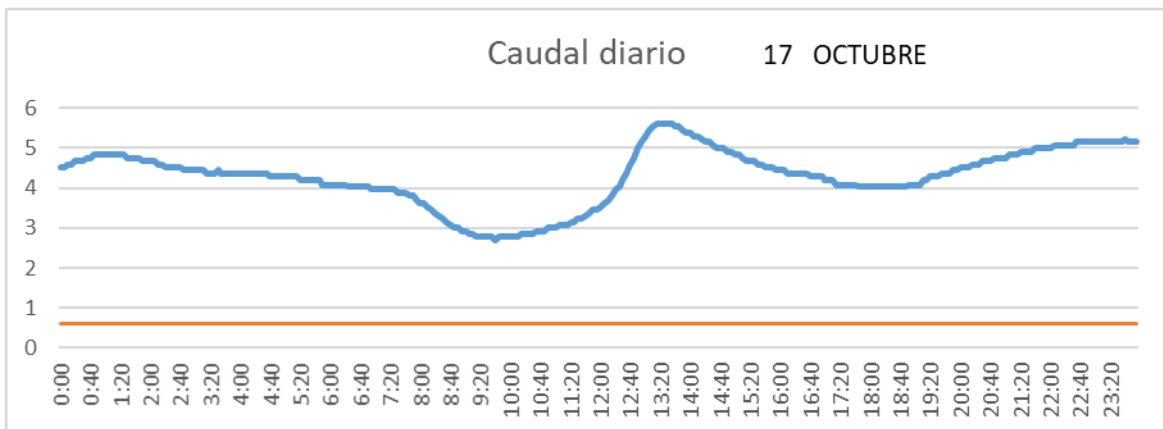
SALIDA TOBA



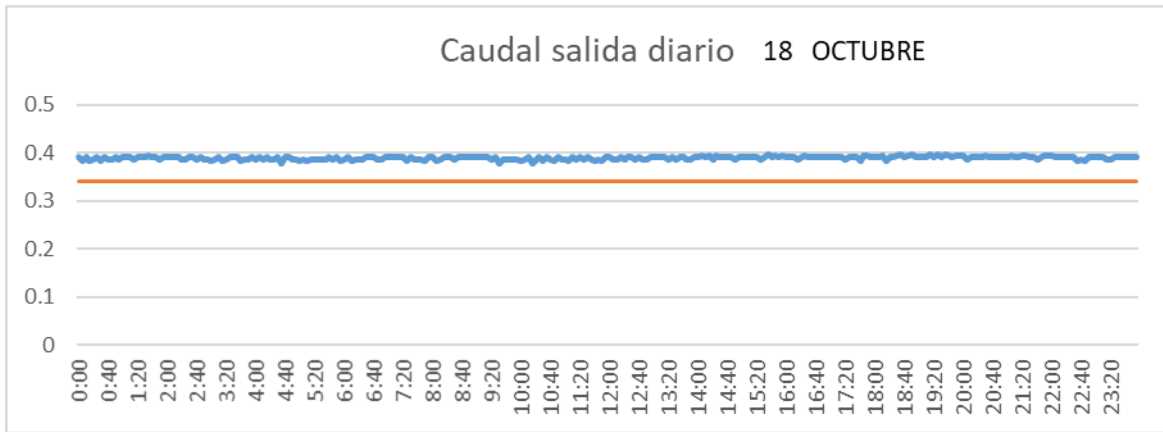
CUENCA



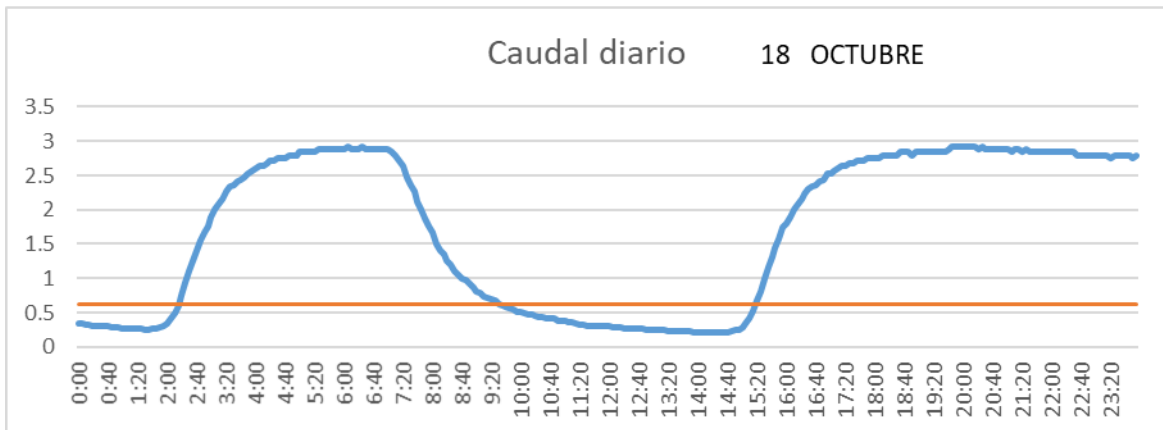
SAN LORENZO PARRILLA



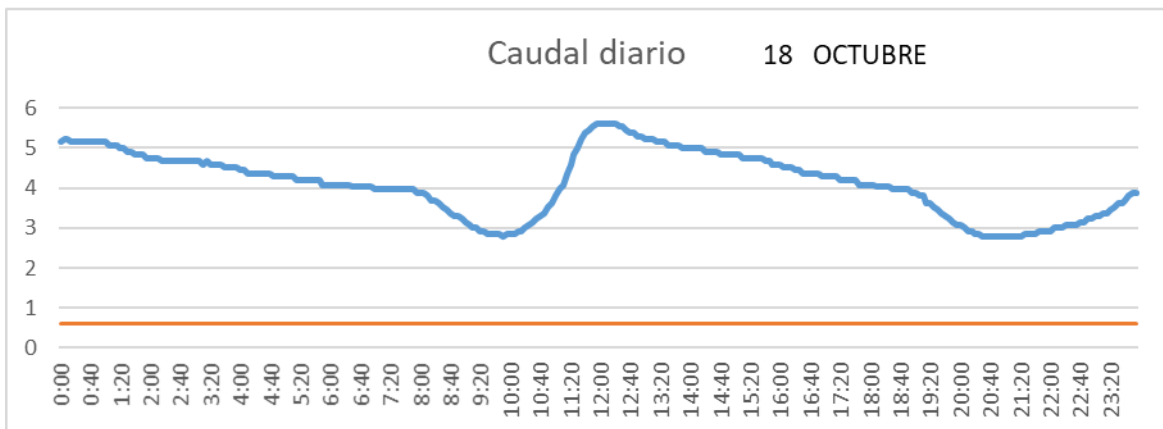
SALIDA TOBA



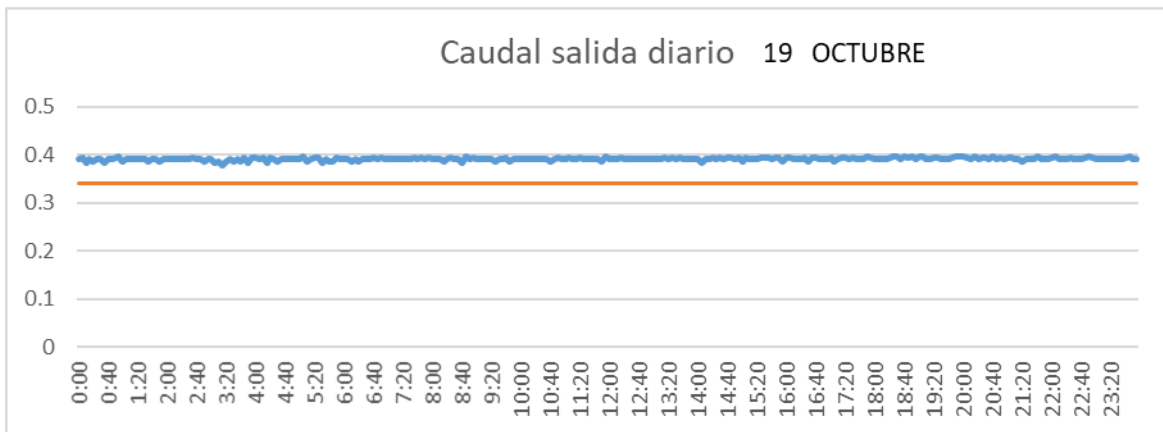
CUENCA



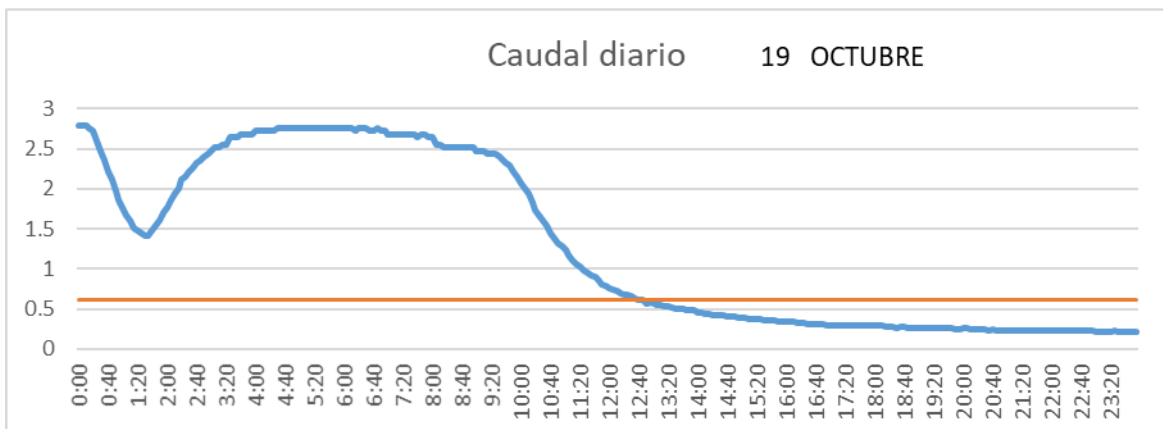
SAN LORENZO PARRILLA



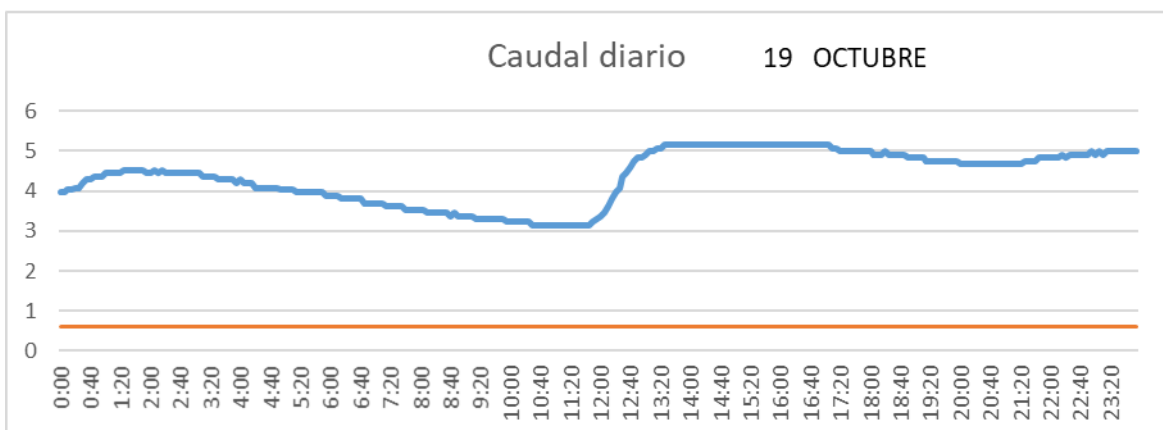
SALIDA TOBA



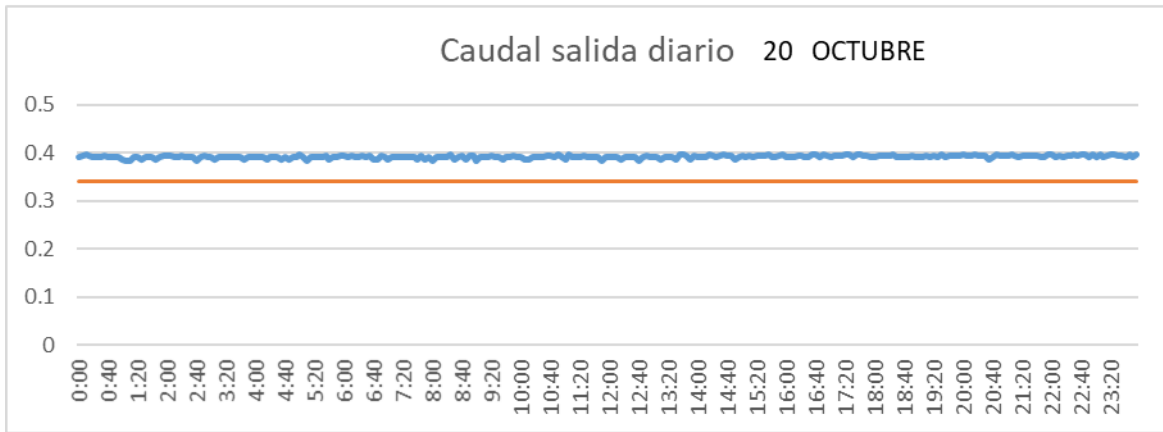
CUENCA



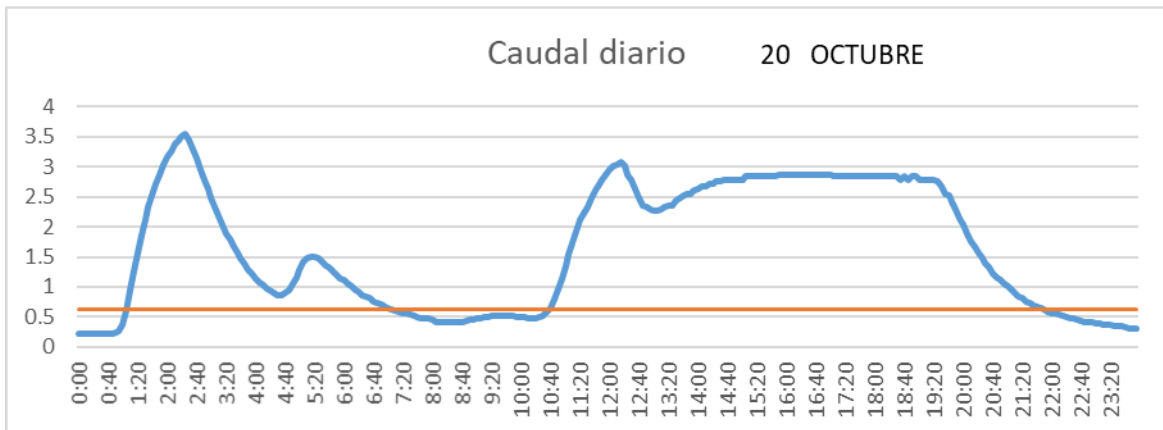
SAN LORENZO PARRILLA



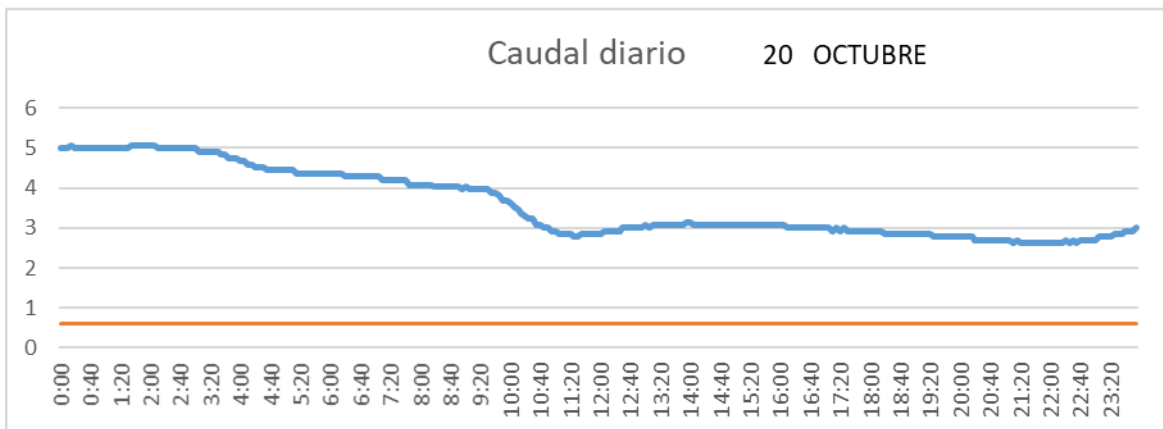
SALIDA TOBA



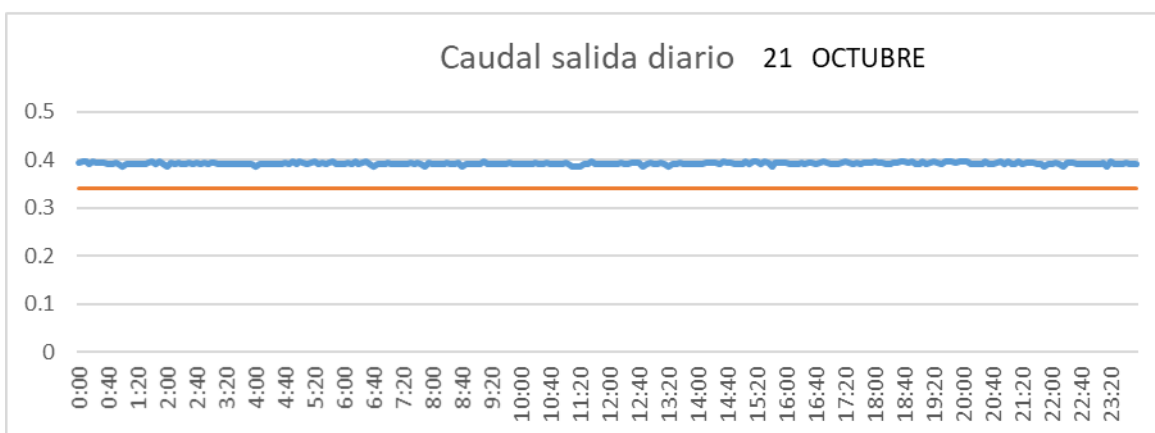
CUENCA



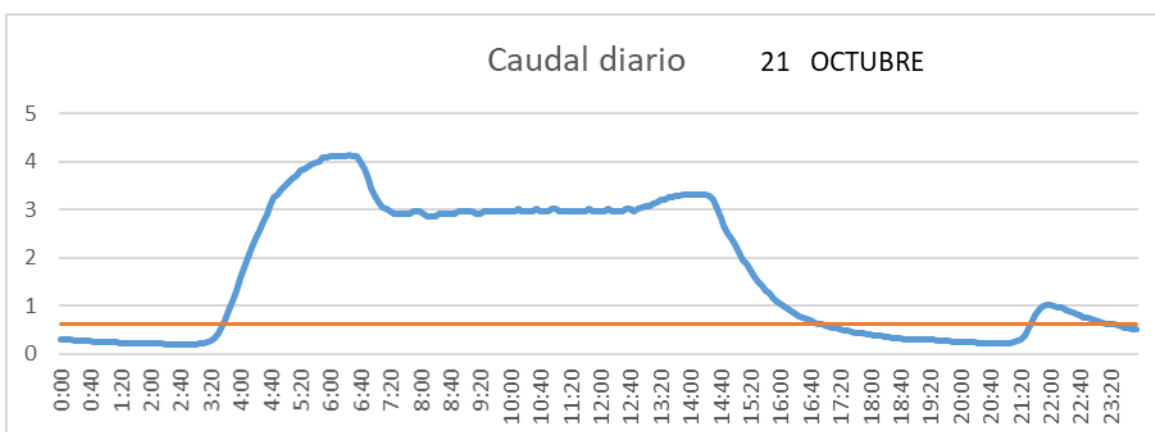
SAN LORENZO PARRILLA



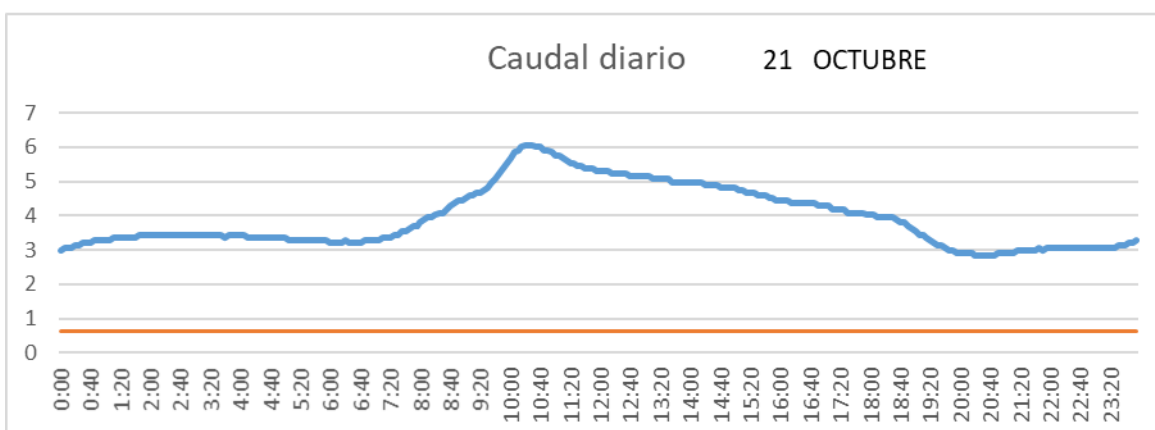
SALIDA TOBA



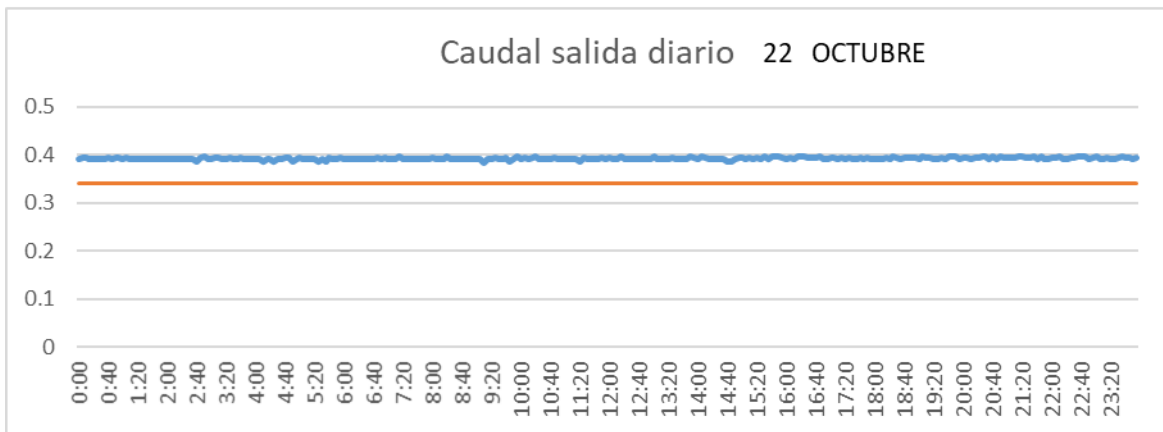
CUENCA



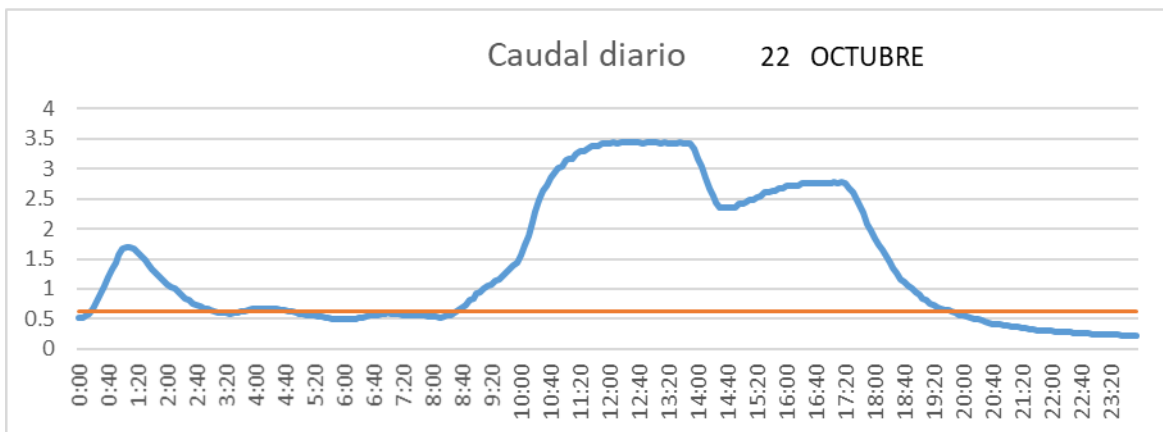
SAN LORENZO PARRILLA



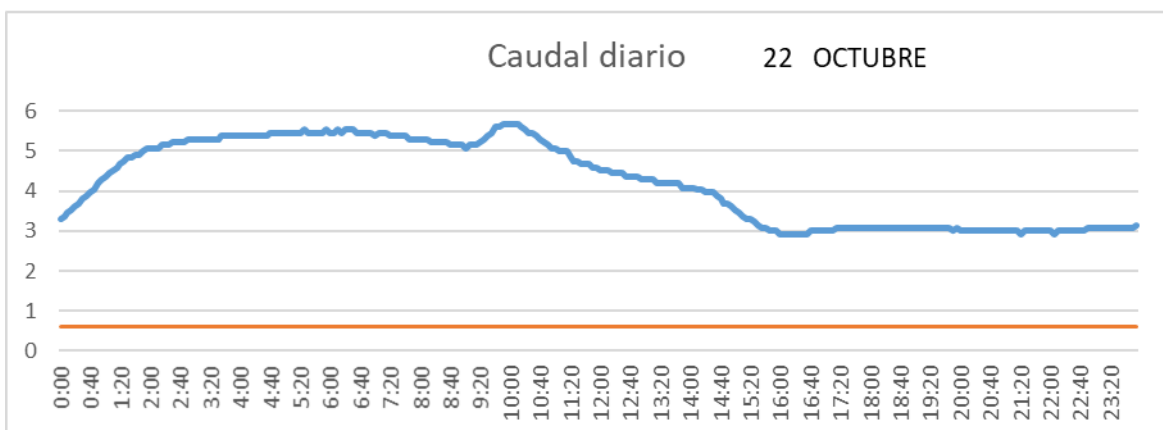
SALIDA TOBA



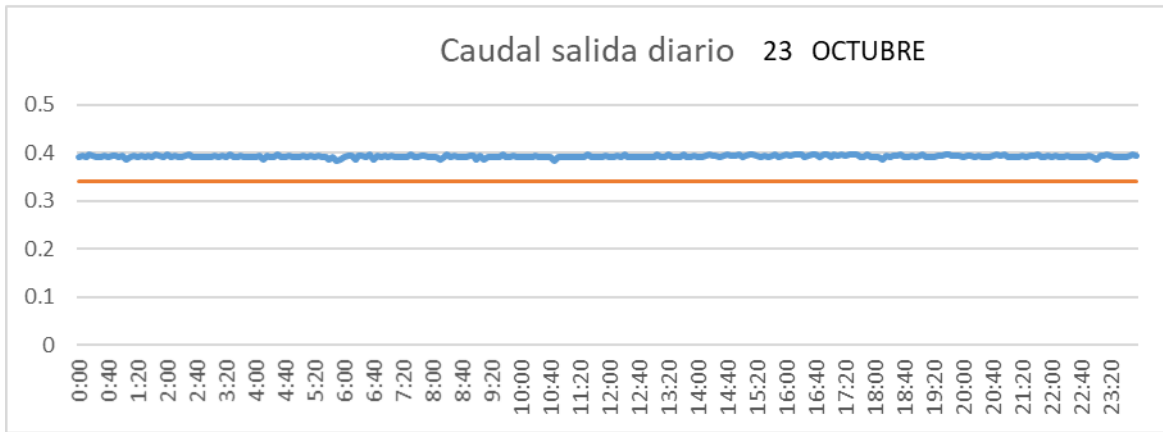
CUENCA



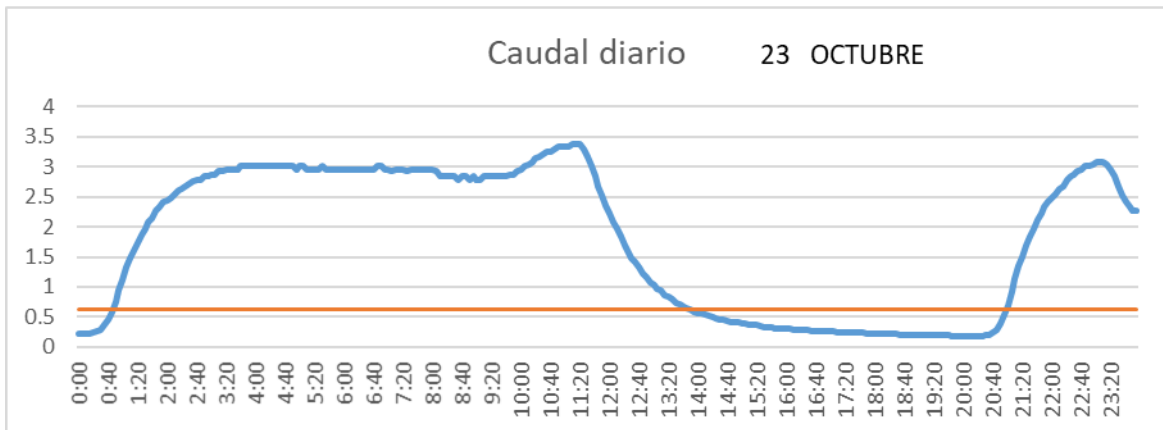
SAN LORENZO PARRILLA



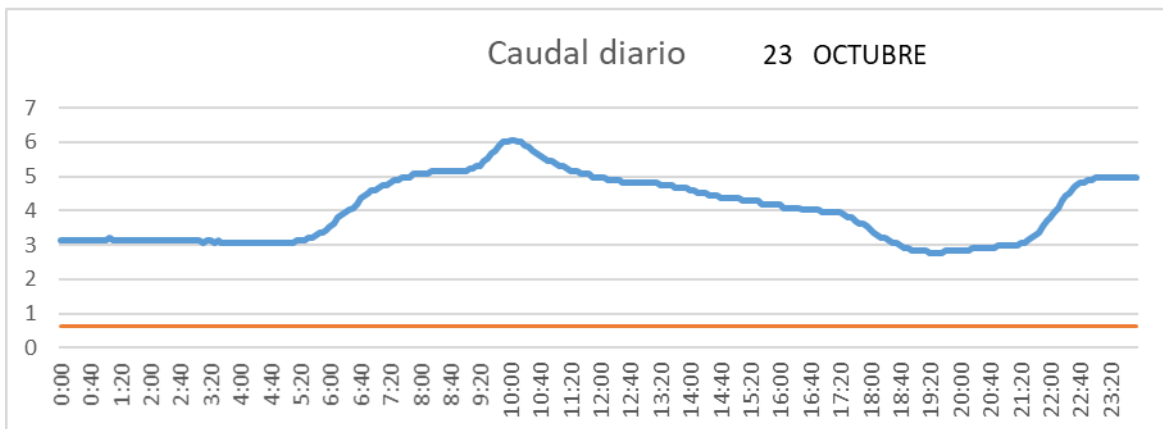
SALIDA TOBA



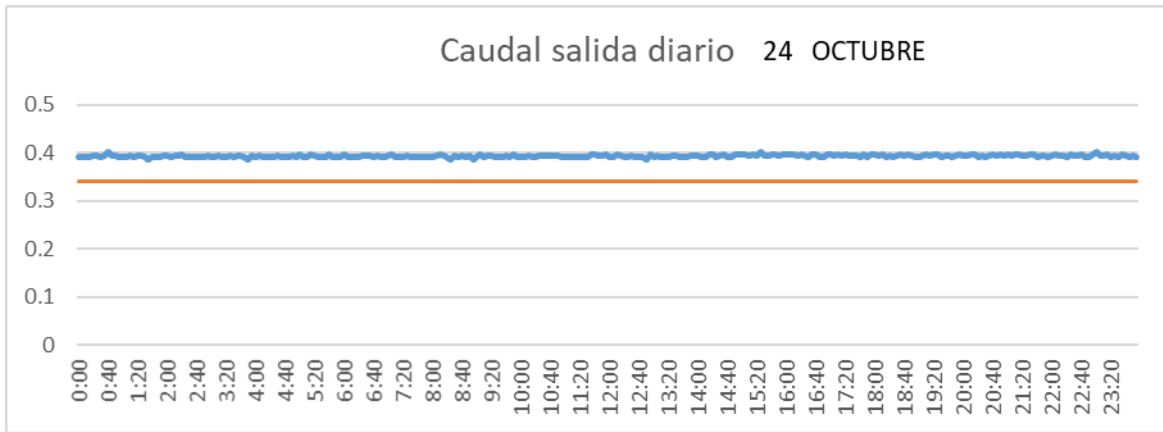
CUENCA



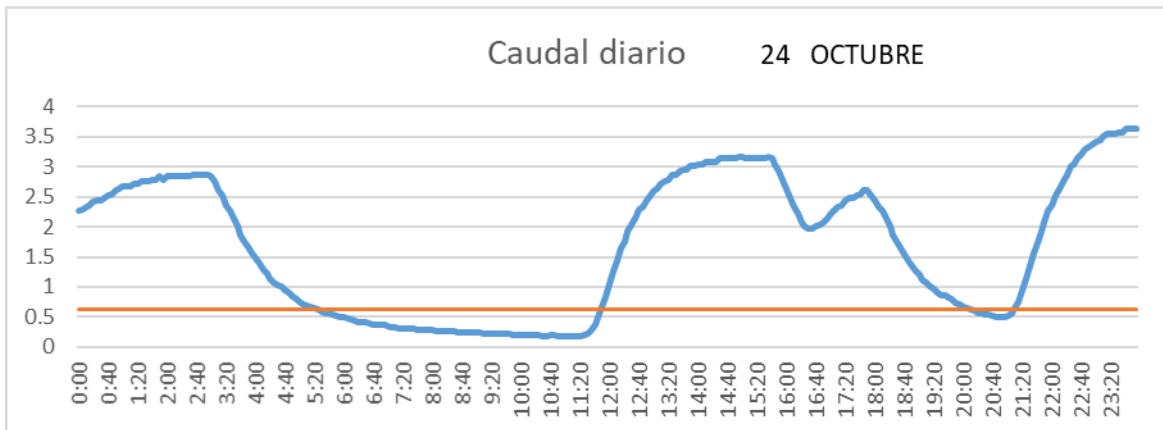
SAN LORENZO PARRILLA



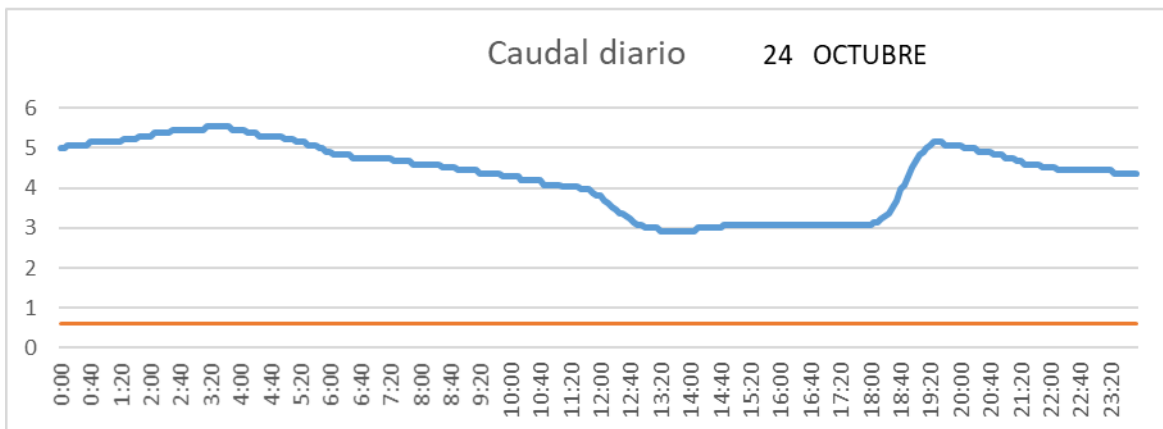
SALIDA TOBA



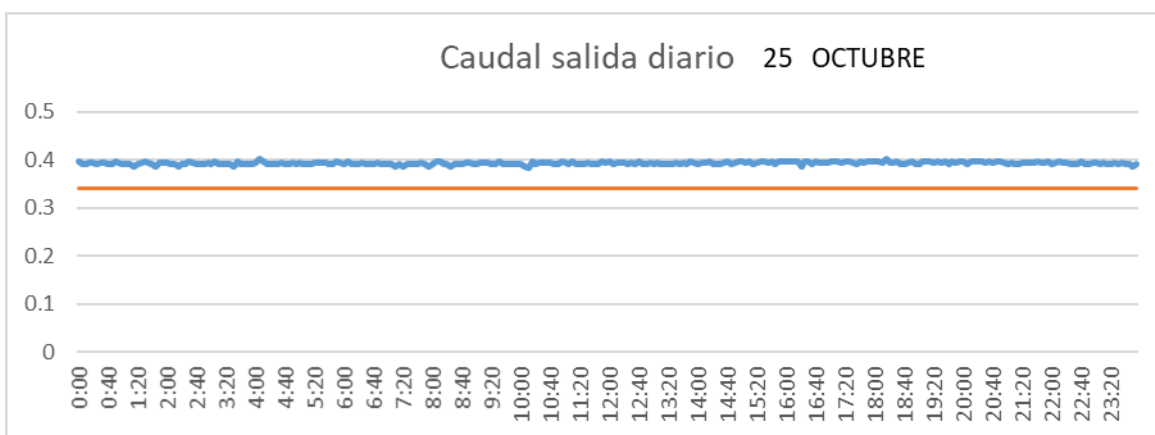
CUENCA



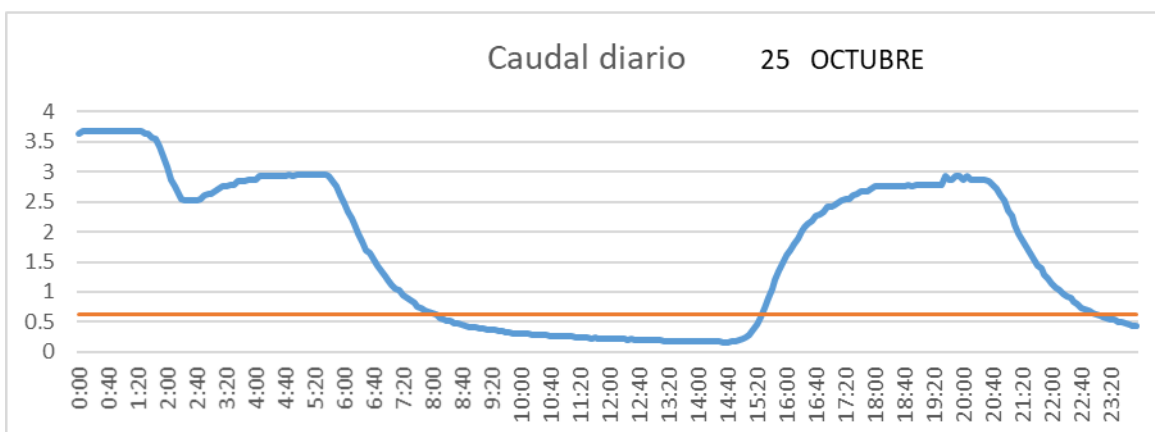
SAN LORENZO PARRILLA



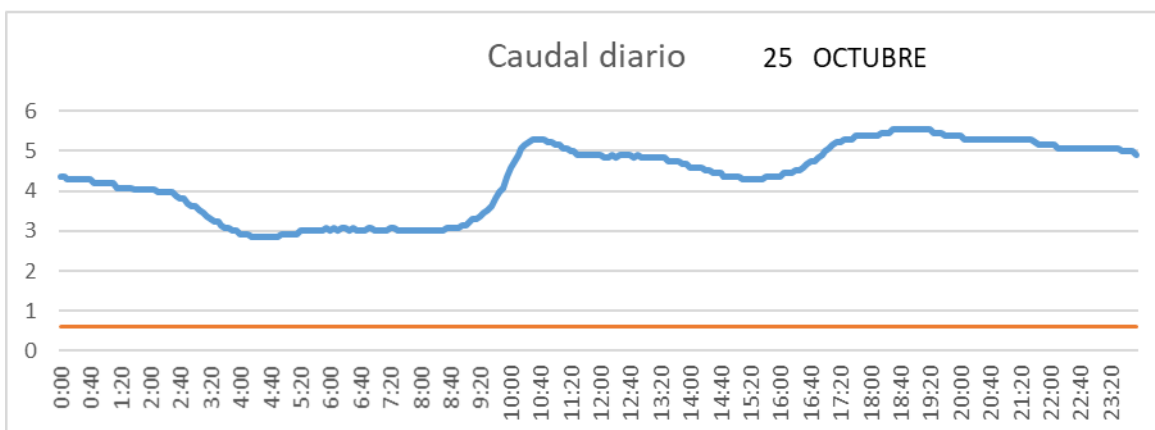
SALIDA TOBA



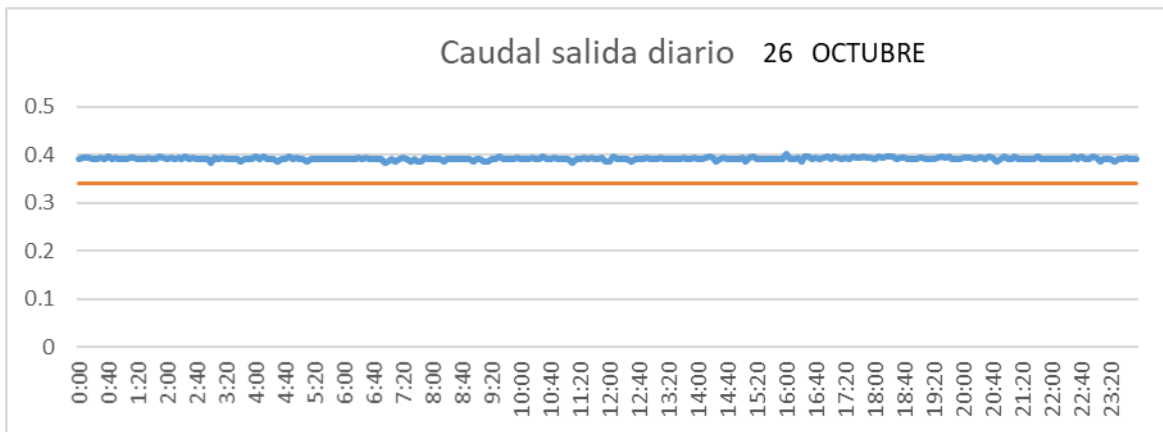
CUENCA



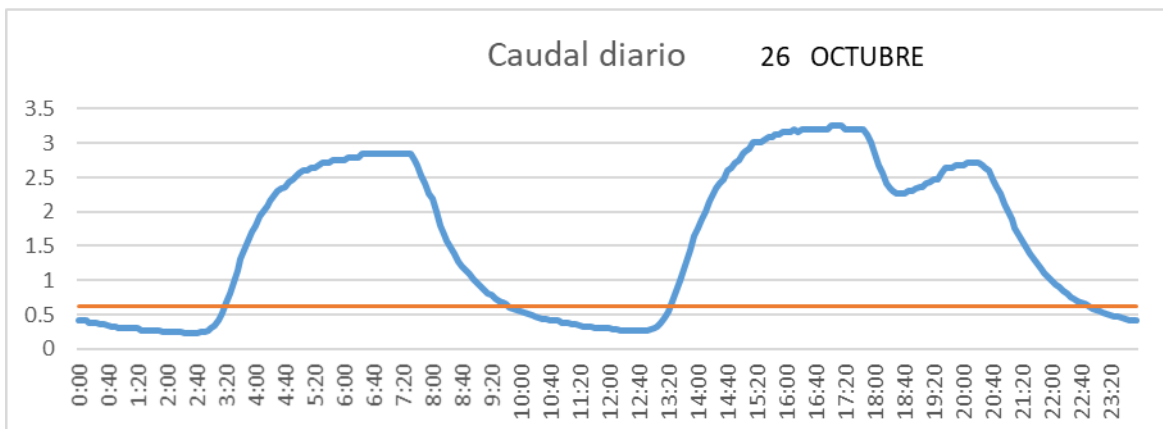
SAN LORENZO PARRILLA



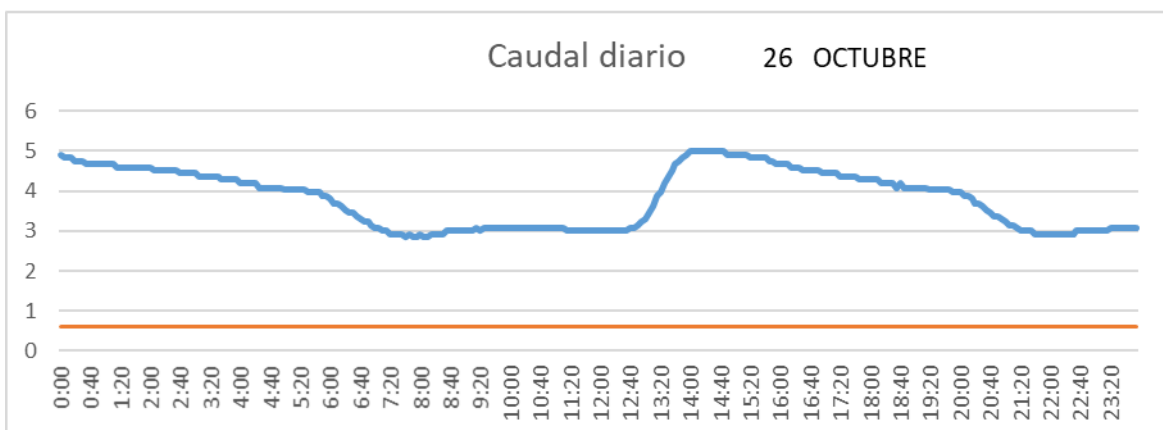
SALIDA TOBA



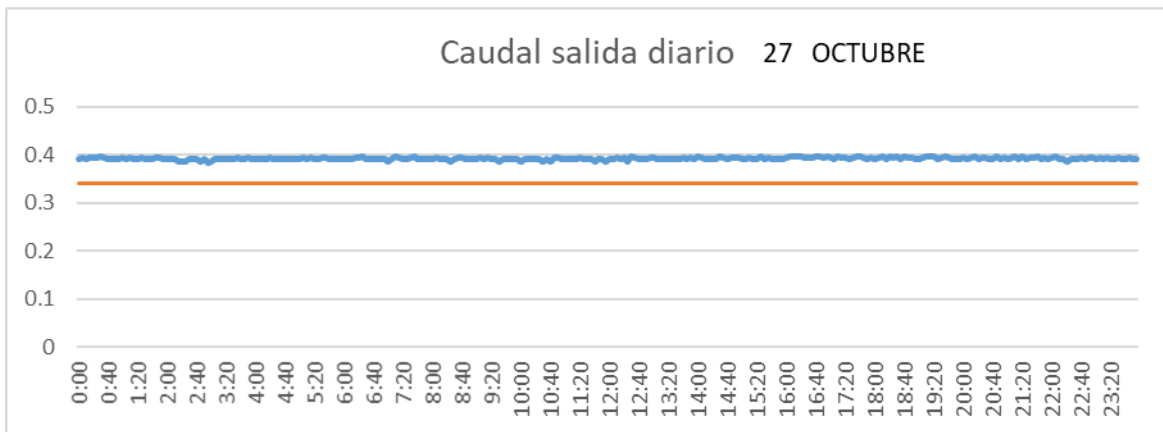
CUENCA



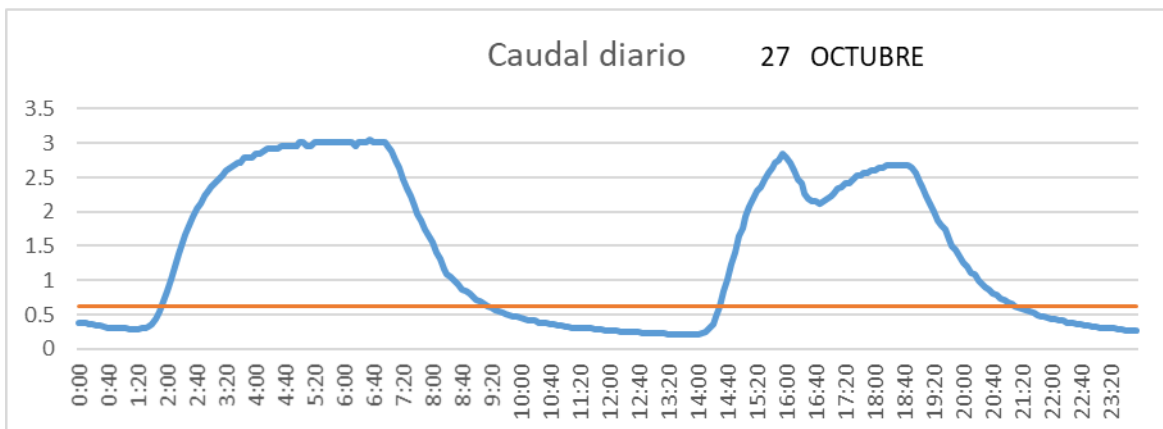
SAN LORENZO PARRILLA



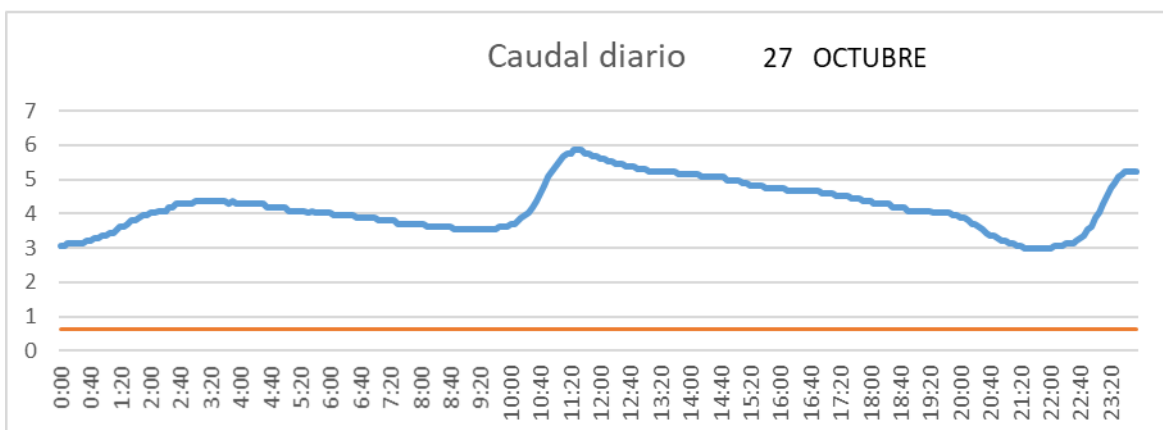
SALIDA TOBA



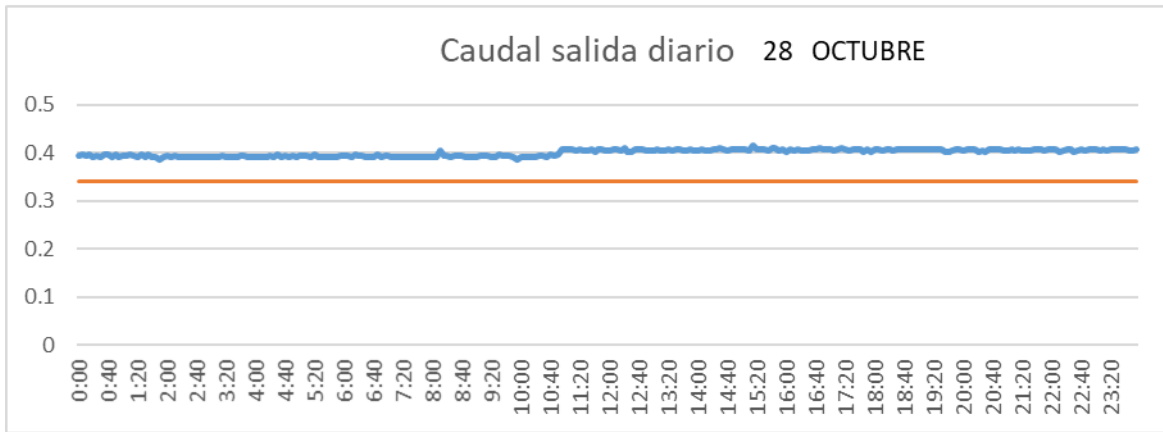
CUENCA



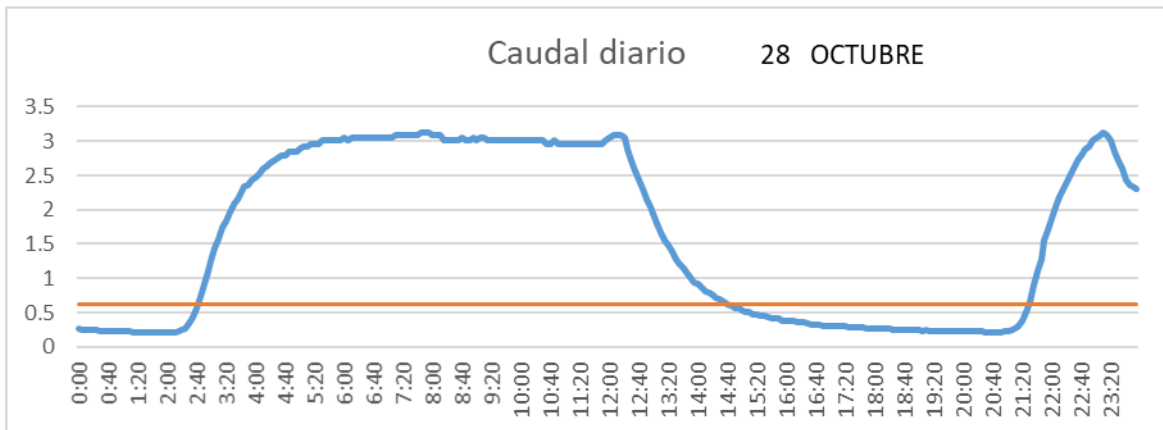
SAN LORENZO PARRILLA



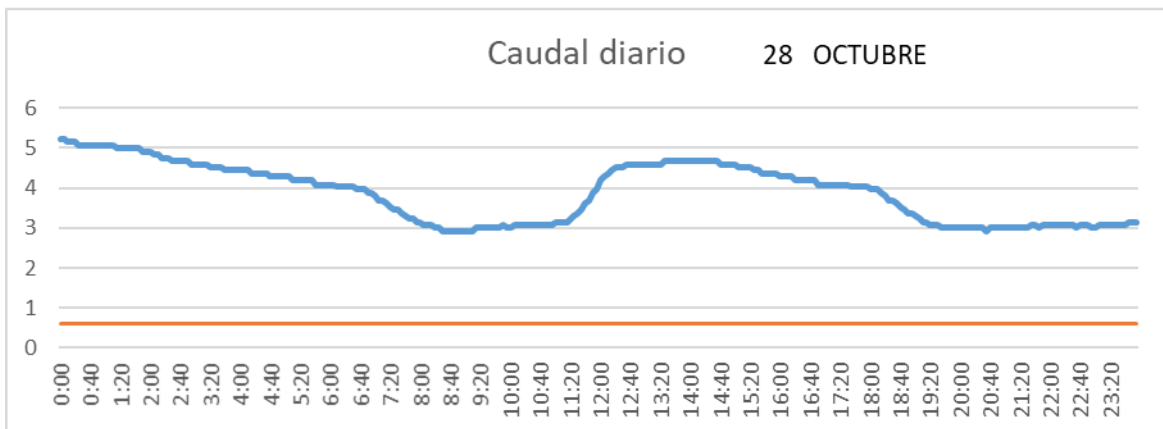
SALIDA TOBA



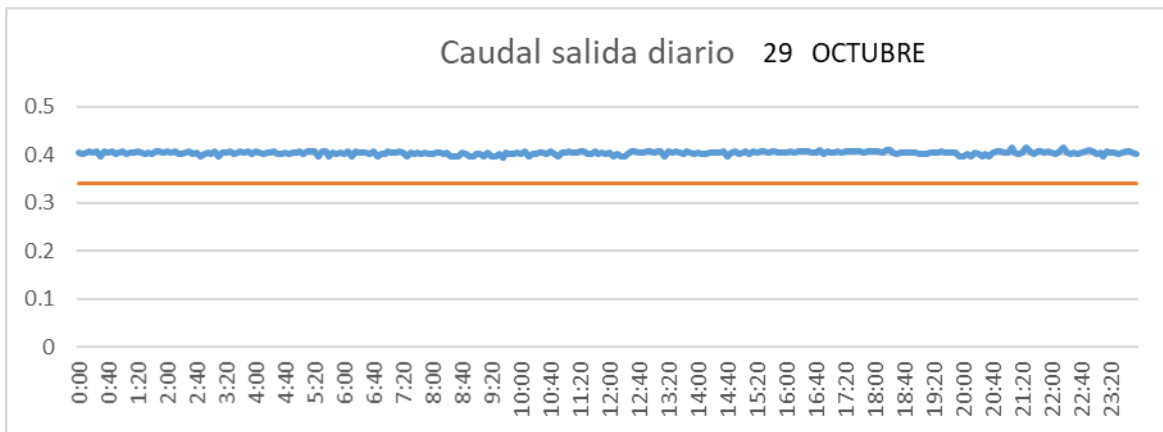
CUENCA



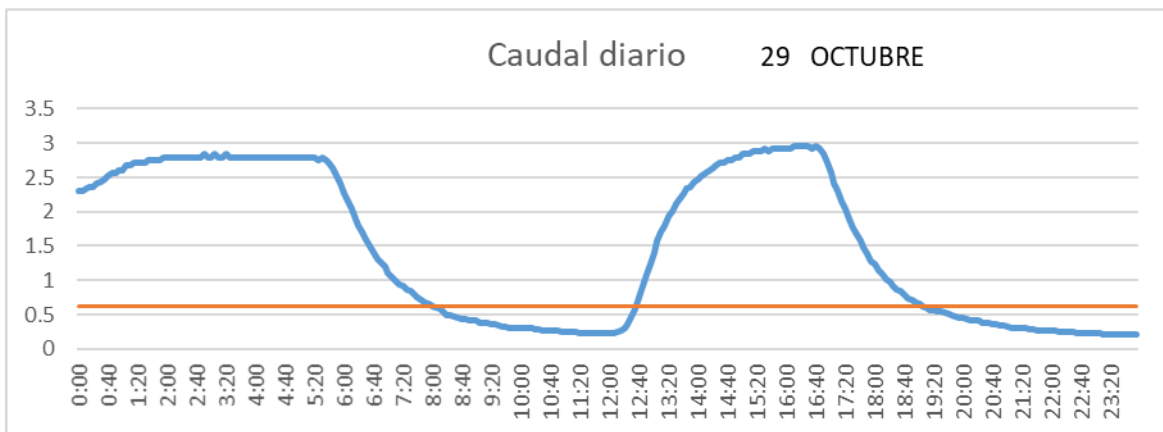
SAN LORENZO PARRILLA



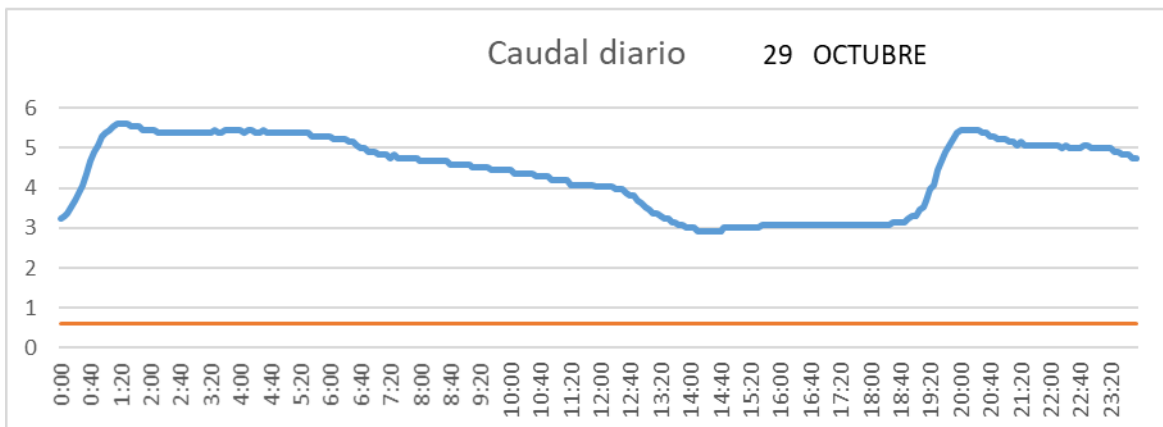
SALIDA TOBA



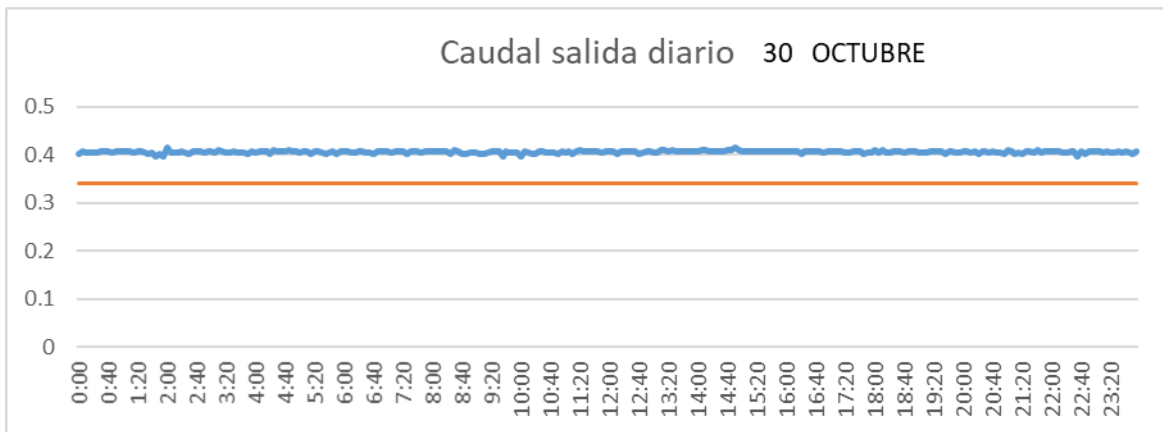
CUENCA



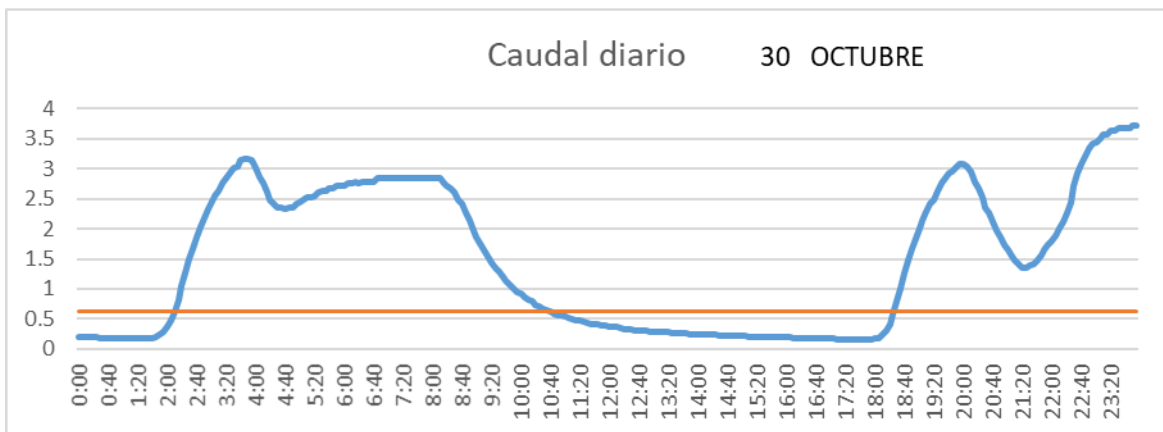
SAN LORENZO PARRILLA



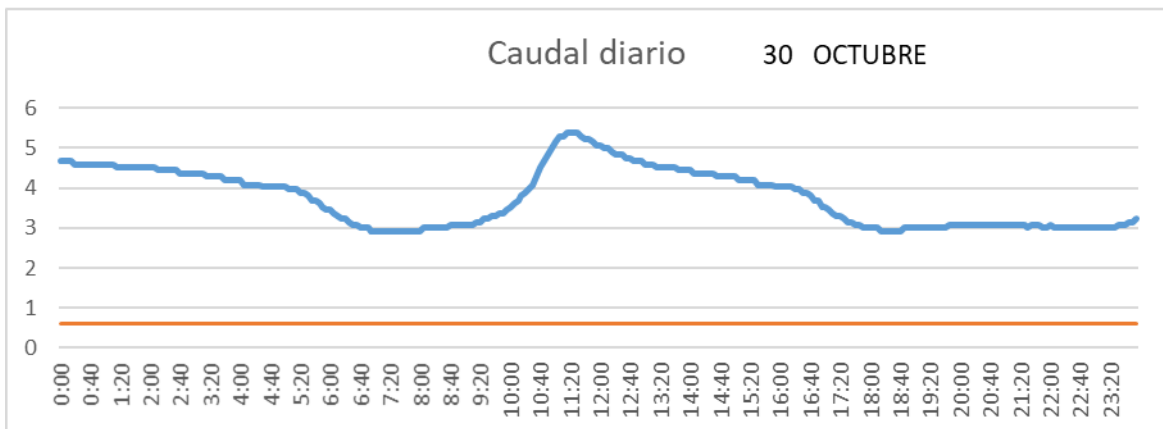
SALIDA TOBA



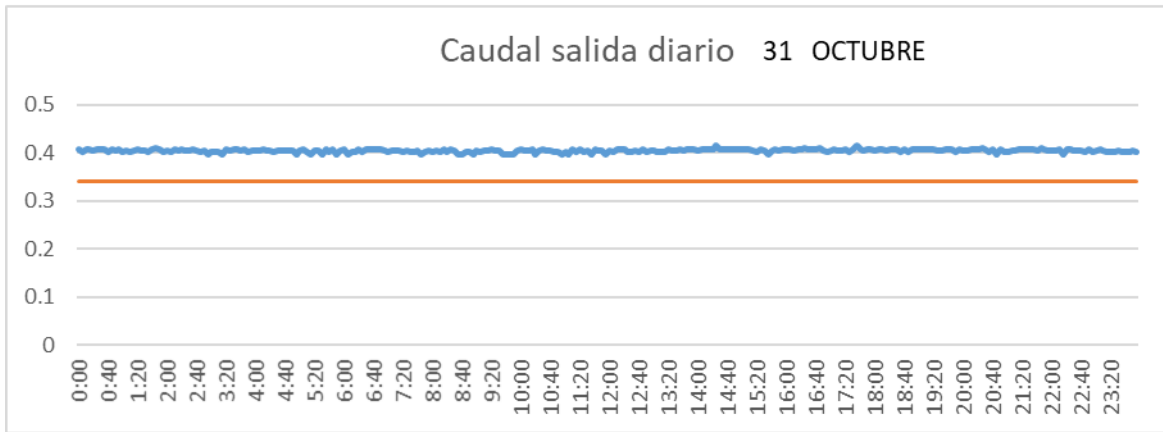
CUENCA



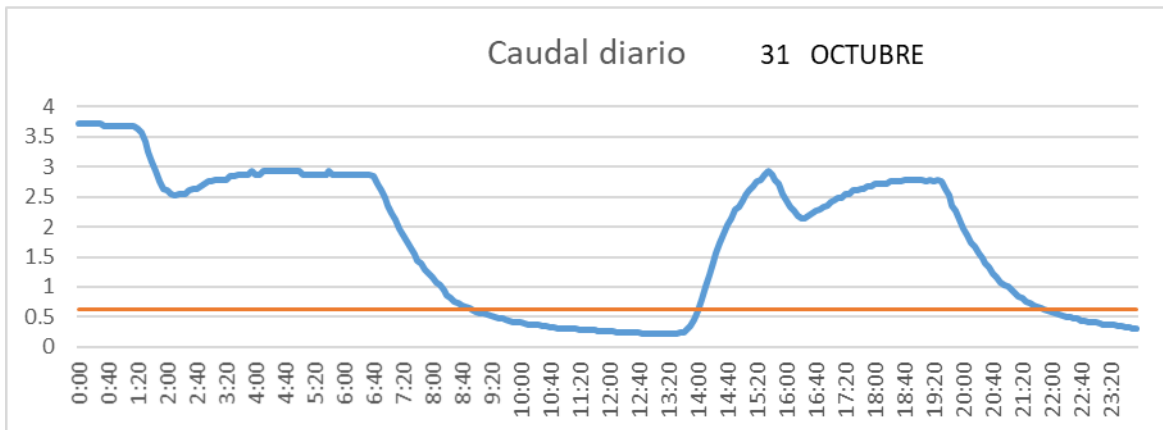
SAN LORENZO PARRILLA



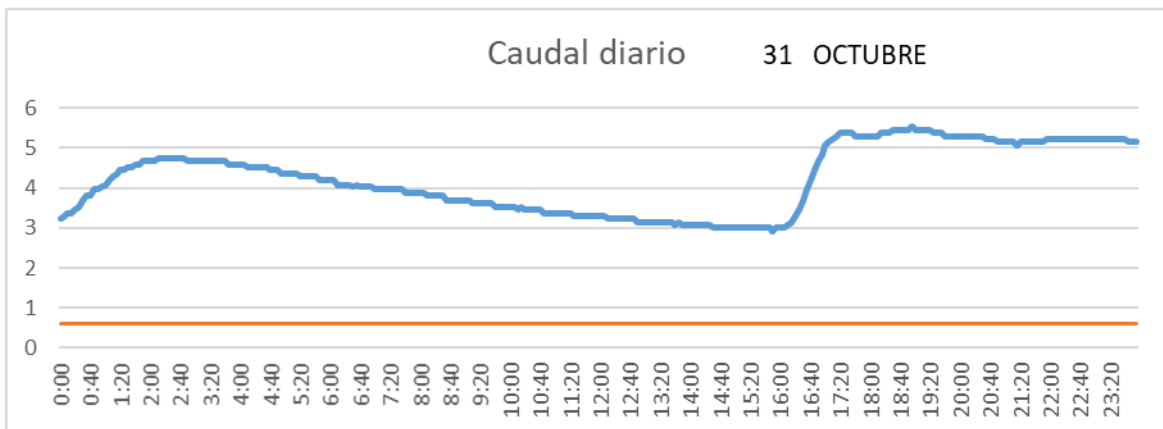
SALIDA TOBA



CUENCA

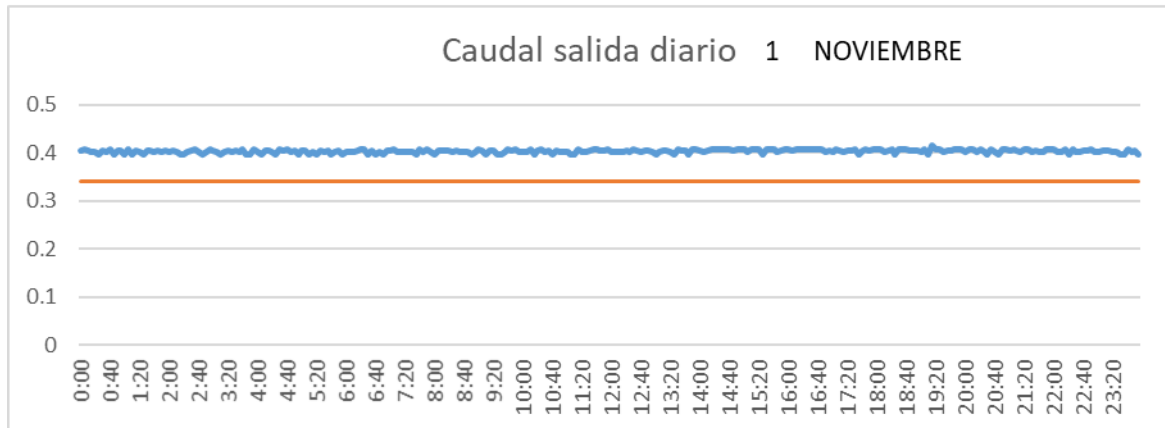


SAN LORENZO PARRILLA

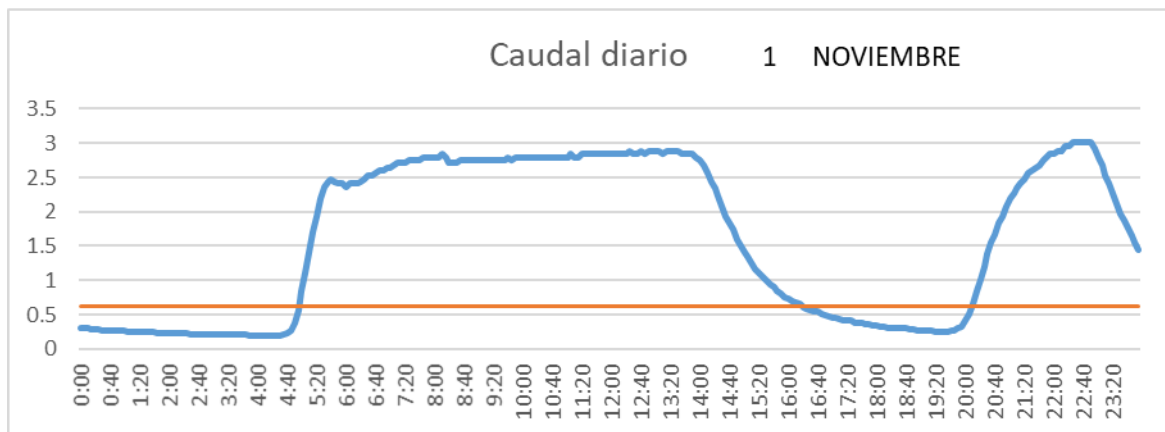


2.1.11 Noviembre

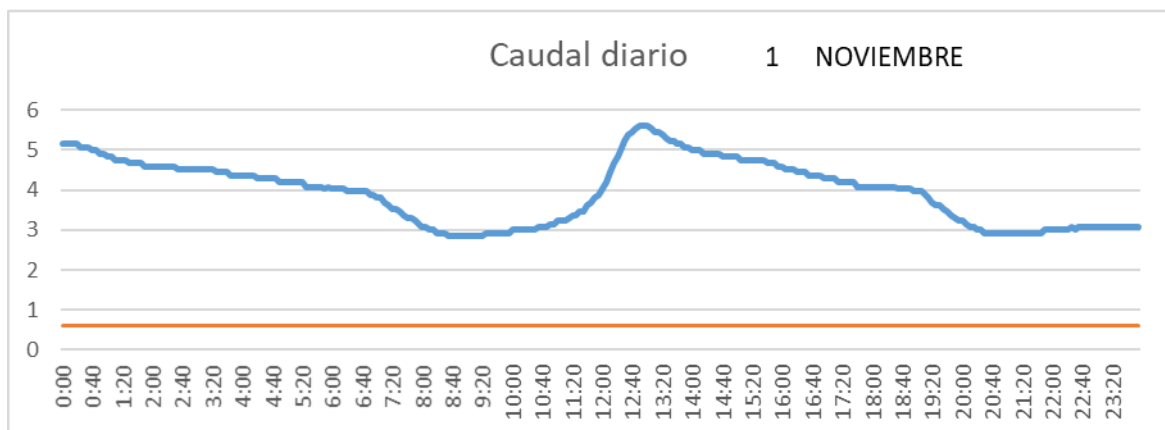
SALIDA TOBA



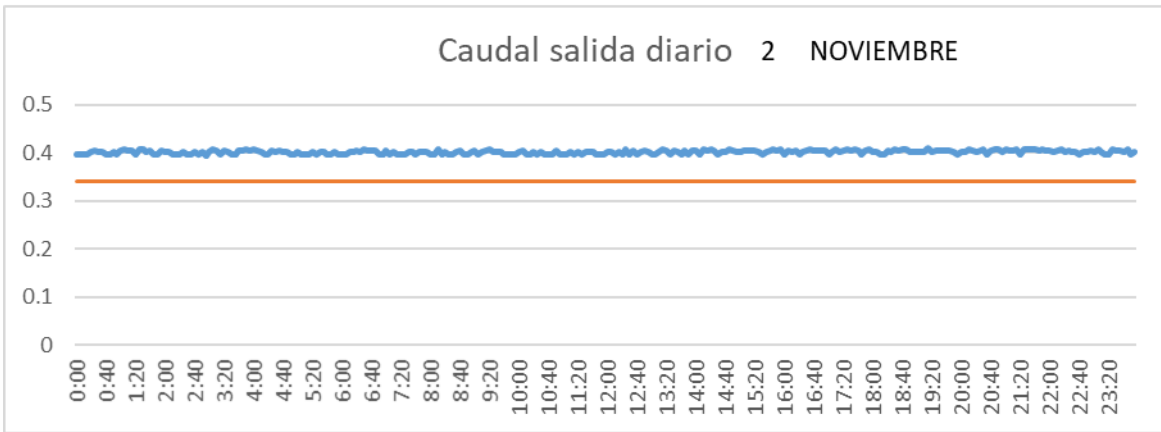
CUENCA



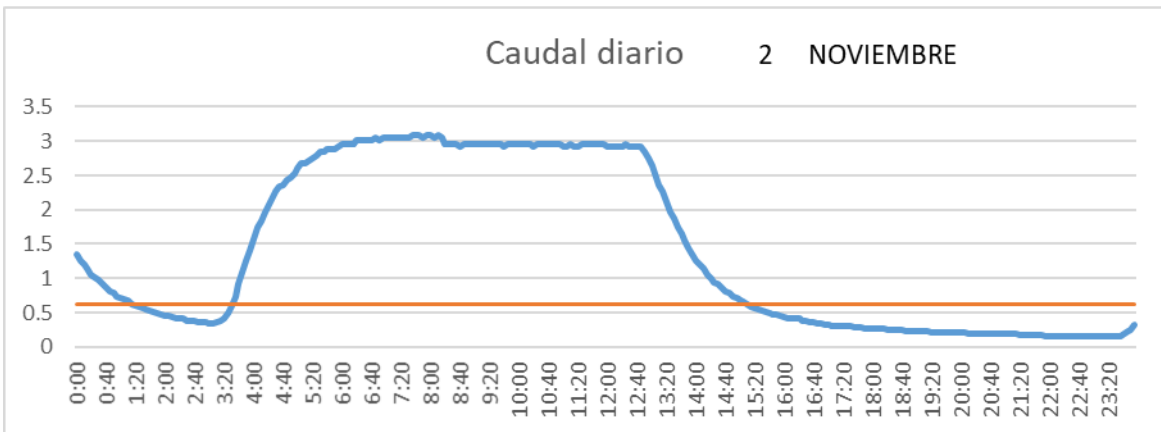
SAN LORENZO PARRILLA



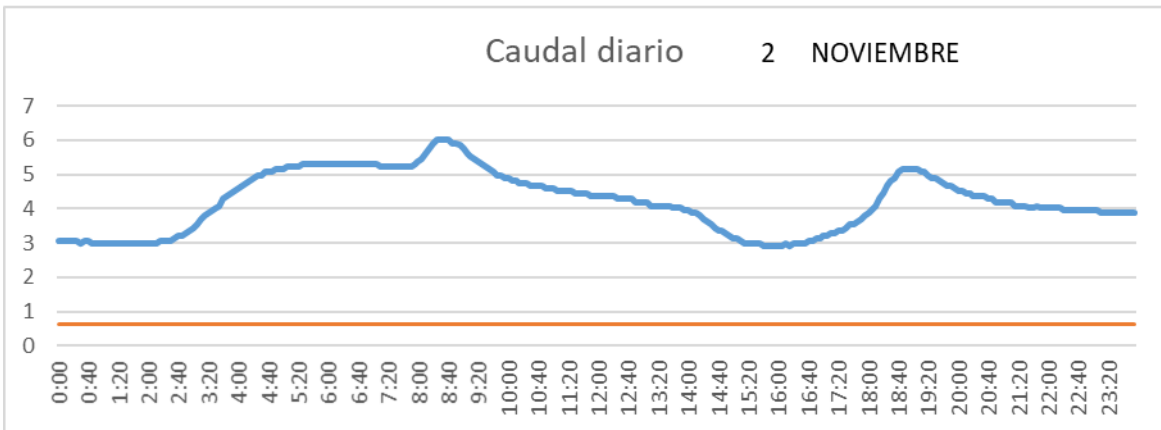
SALIDA TOBA



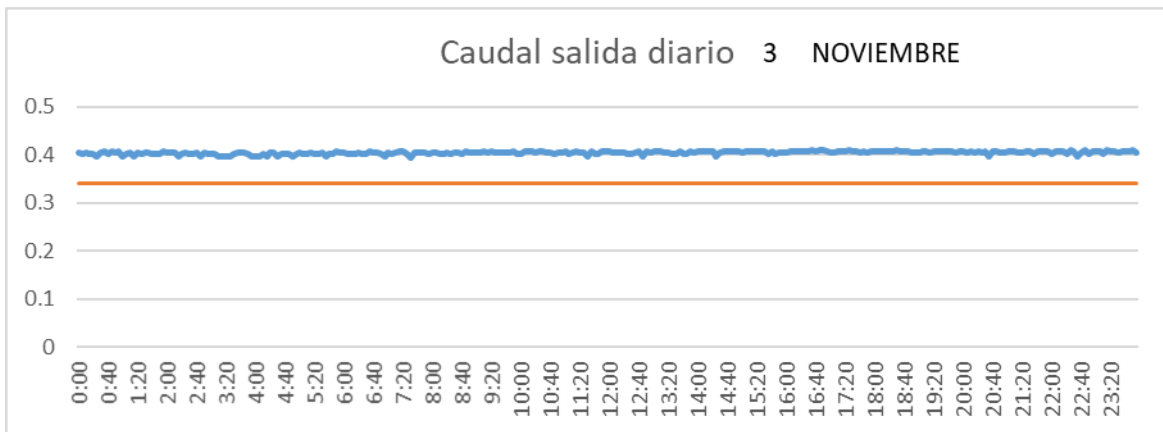
CUENCA



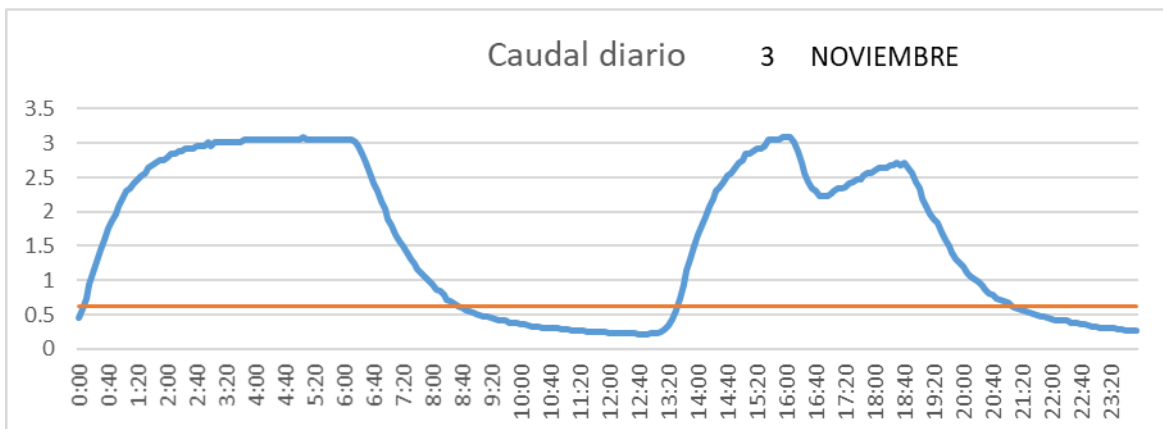
SAN LORENZO PARRILLA



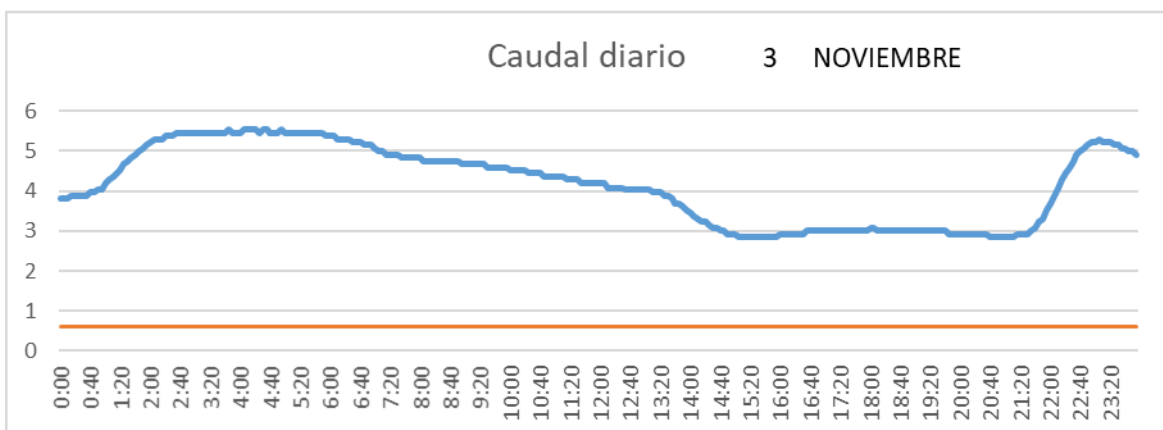
SALIDA TOBA



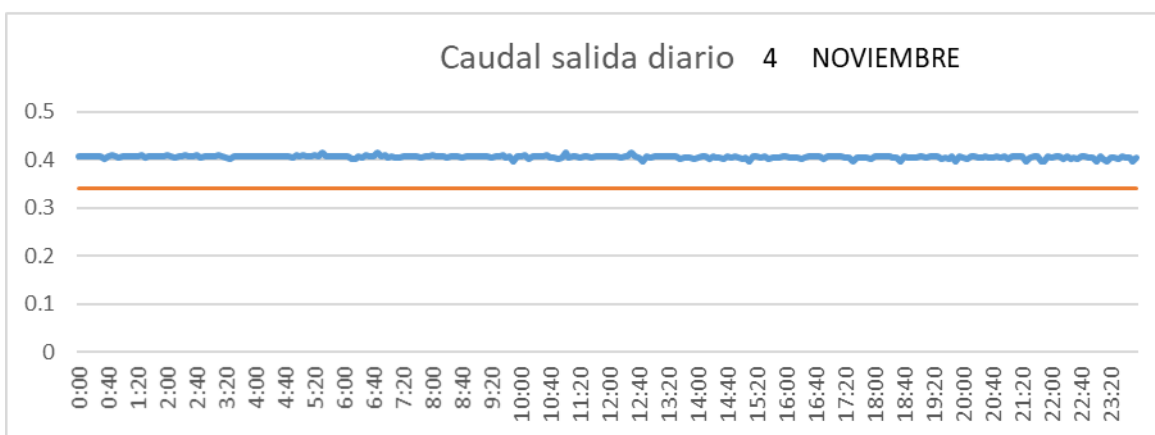
CUENCA



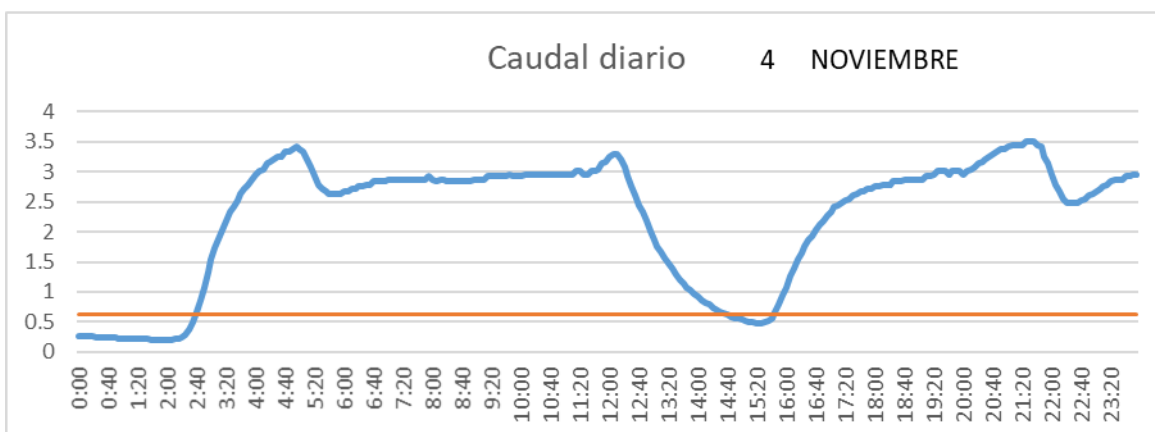
SAN LORENZO PARRILLA



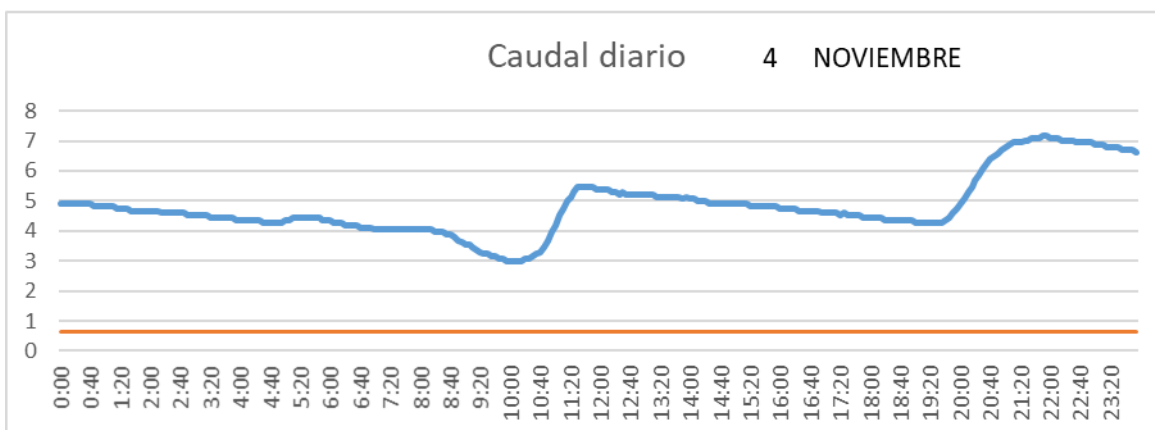
SALIDA TOBA



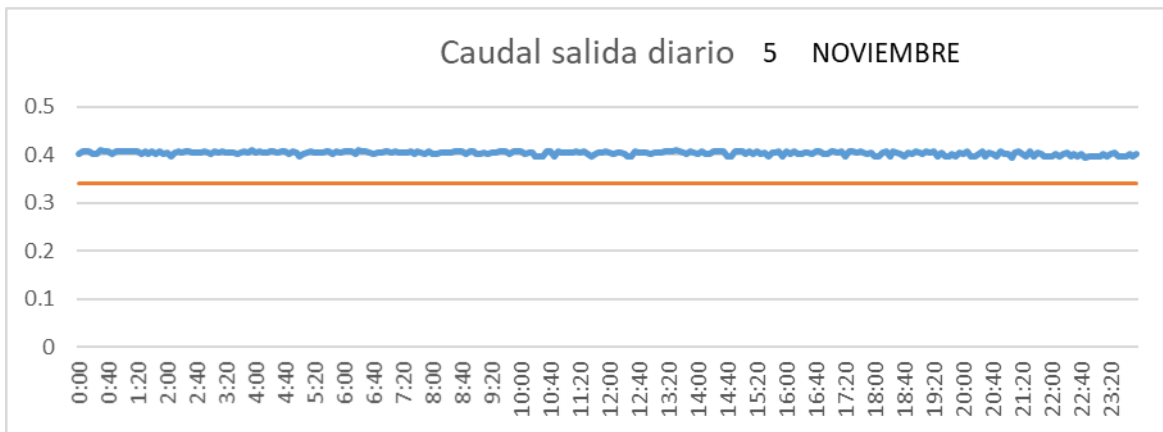
CUENCA



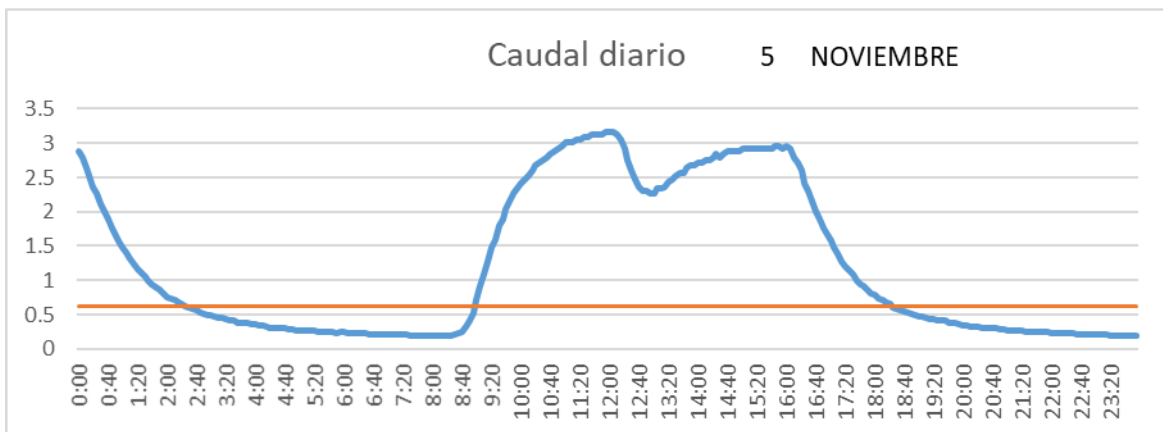
SAN LORENZO PARRILLA



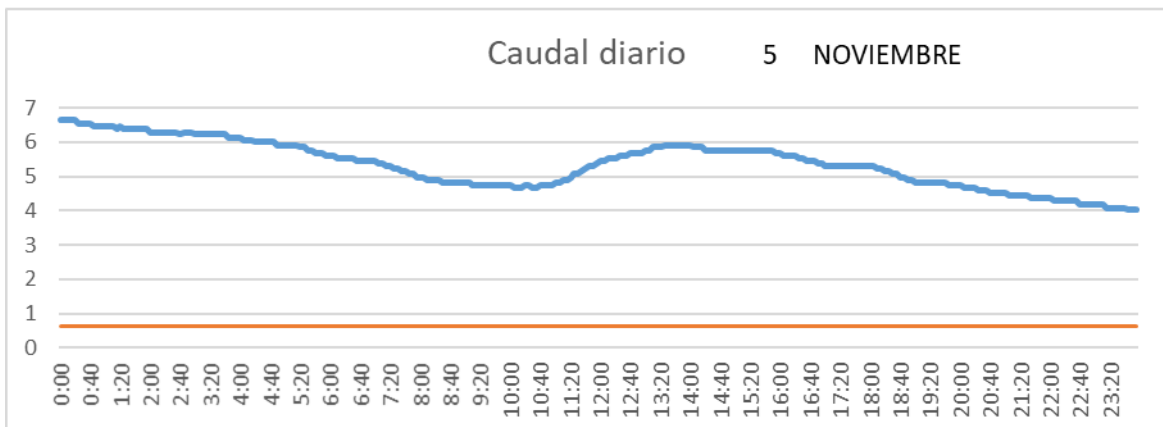
SALIDA TOBA



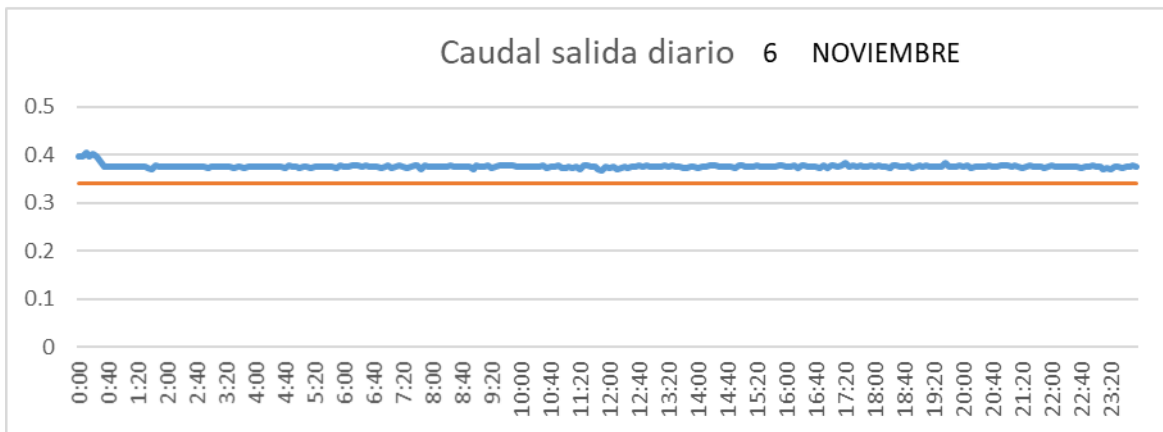
CUENCA



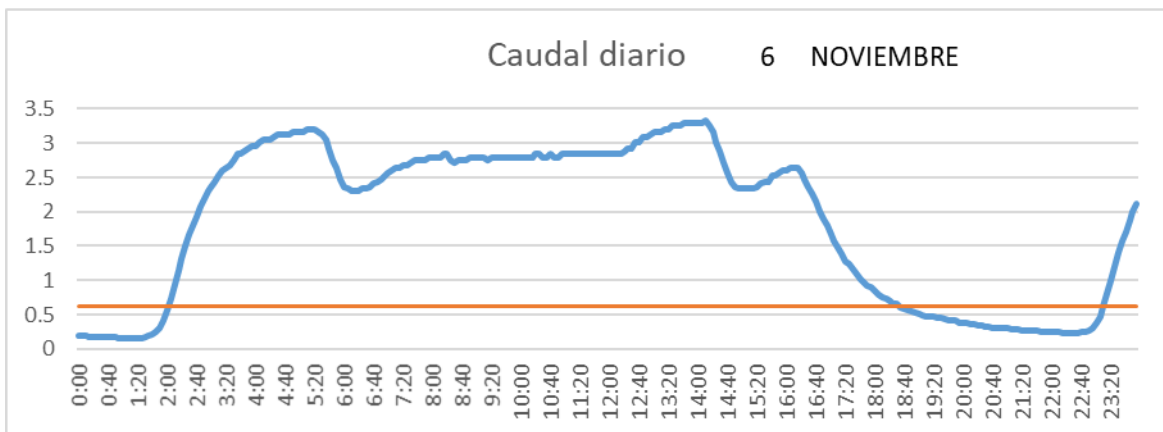
SAN LORENZO PARRILLA



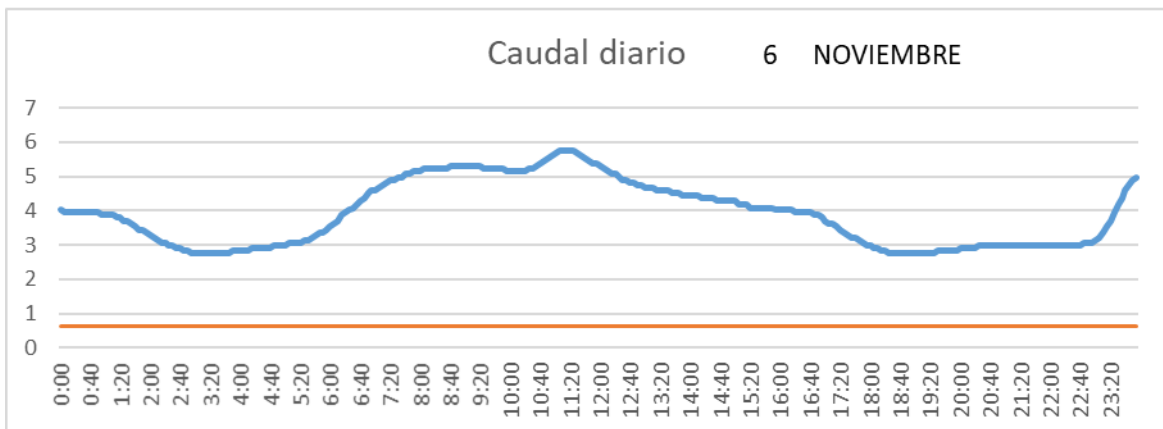
SALIDA TOBA



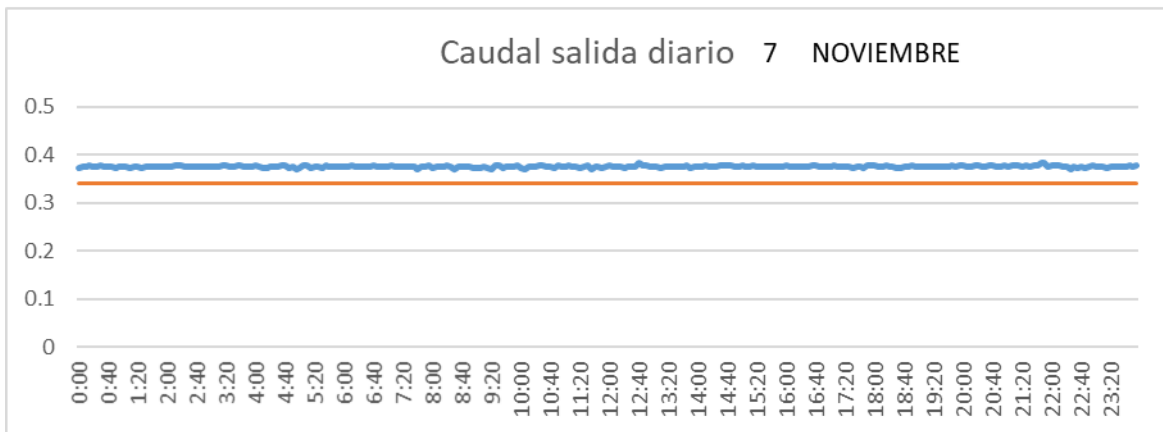
CUENCA



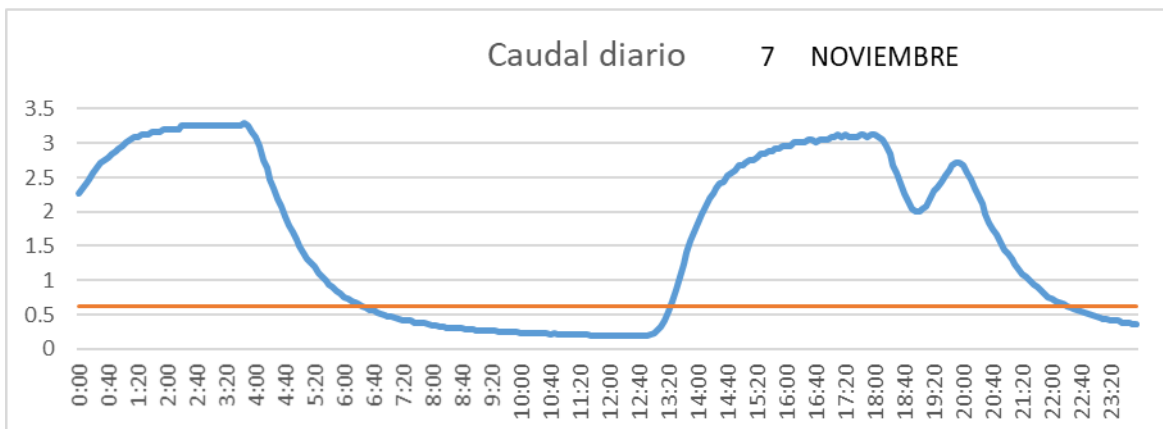
SAN LORENZO PARRILLA



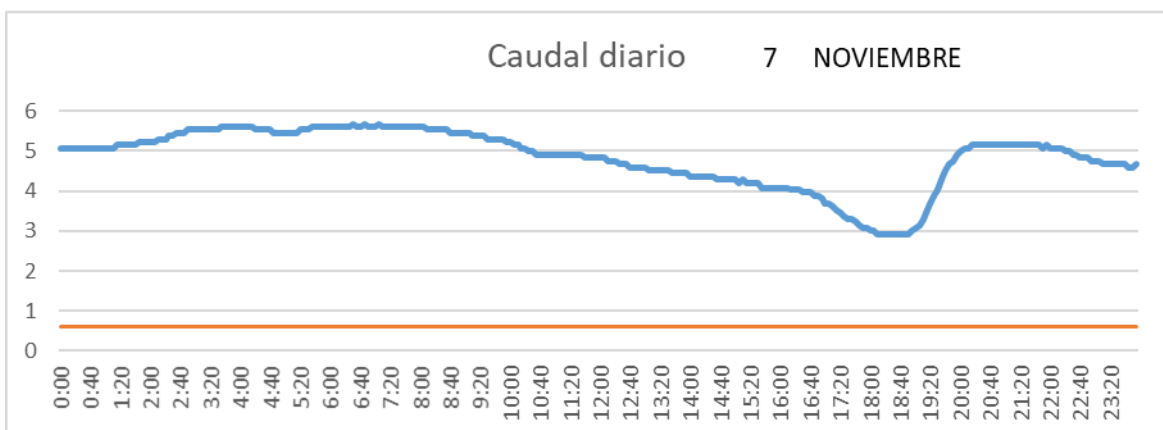
SALIDA TOBA



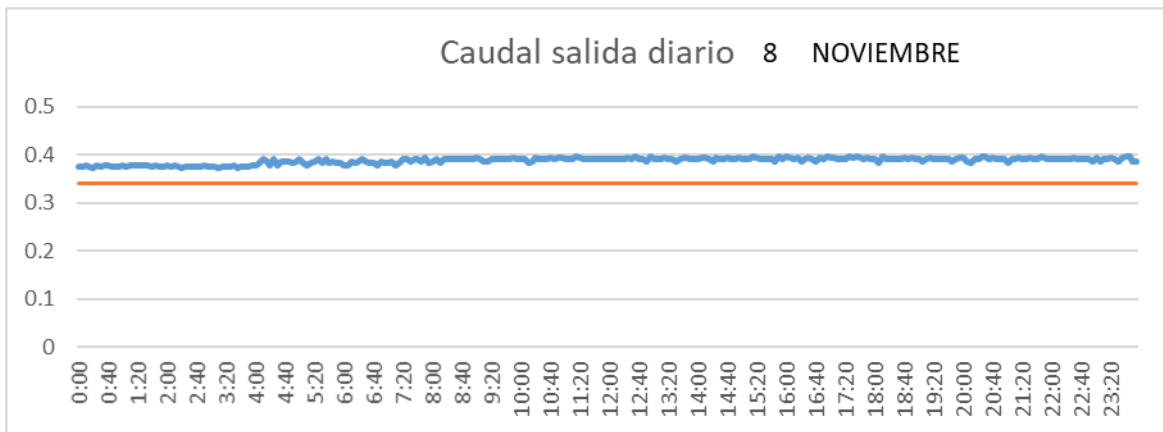
CUENCA



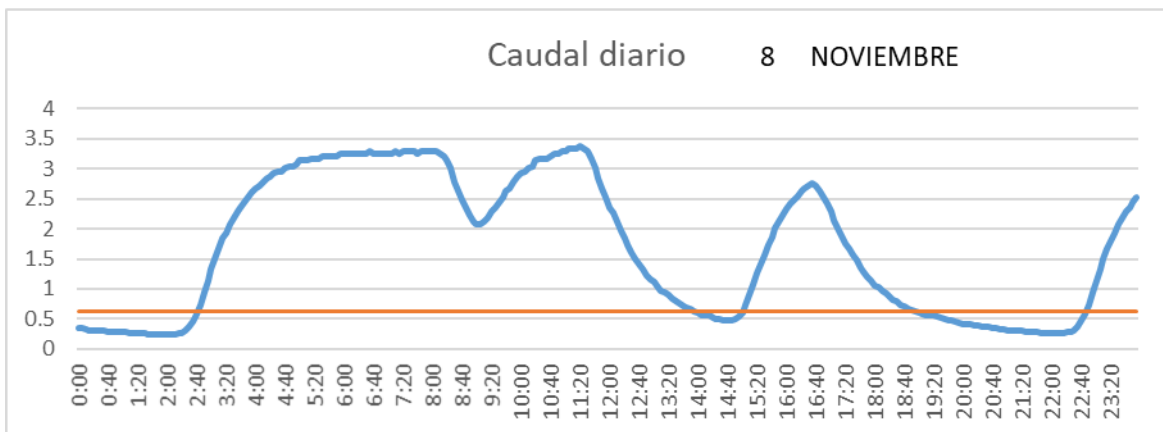
SAN LORENZO PARRILLA



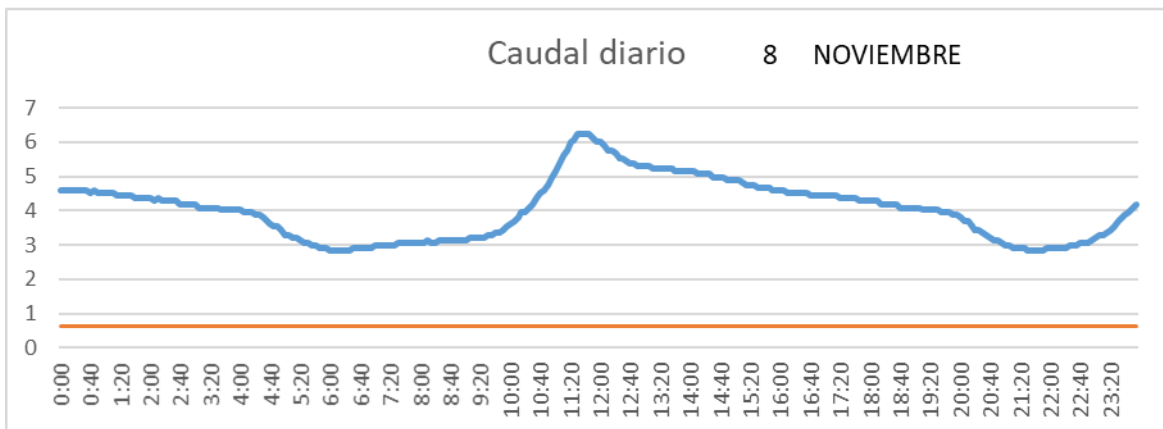
SALIDA TOBA



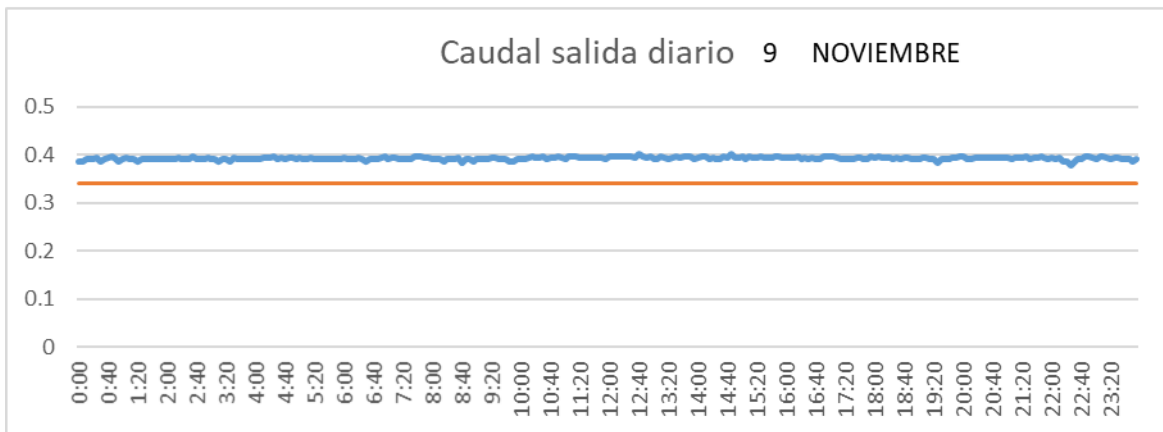
CUENCA



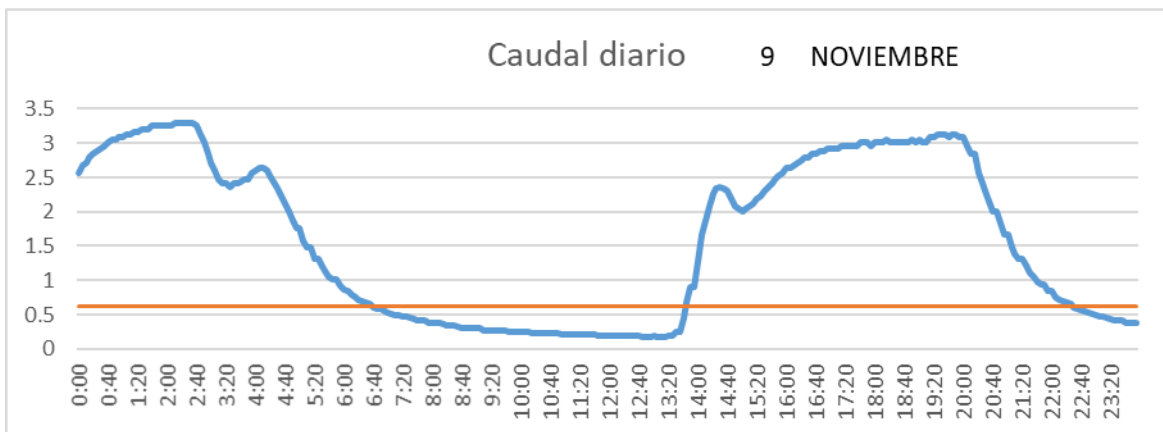
SAN LORENZO PARRILLA



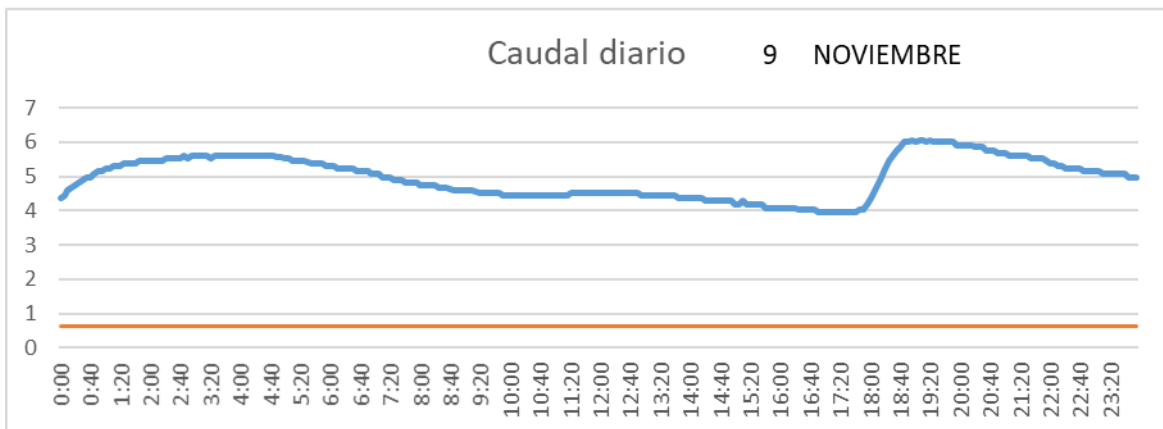
SALIDA TOBA



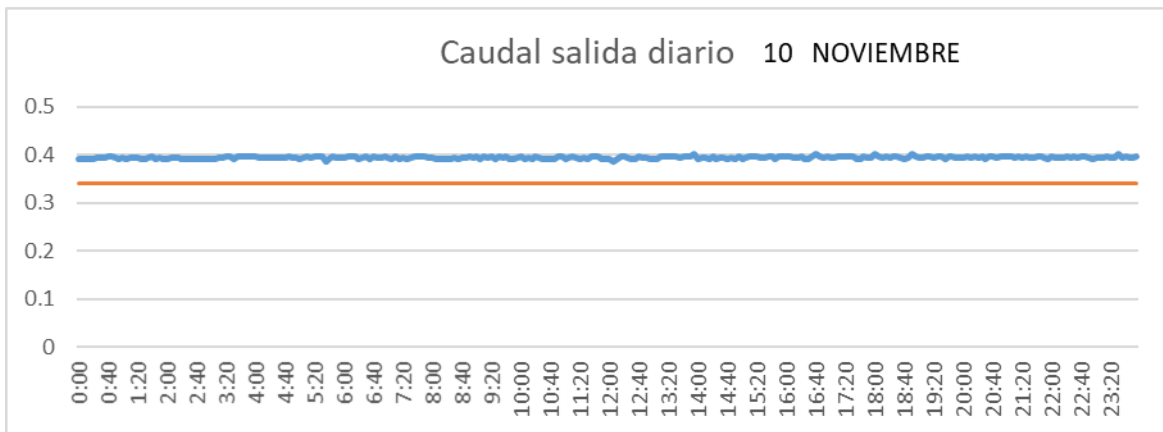
CUENCA



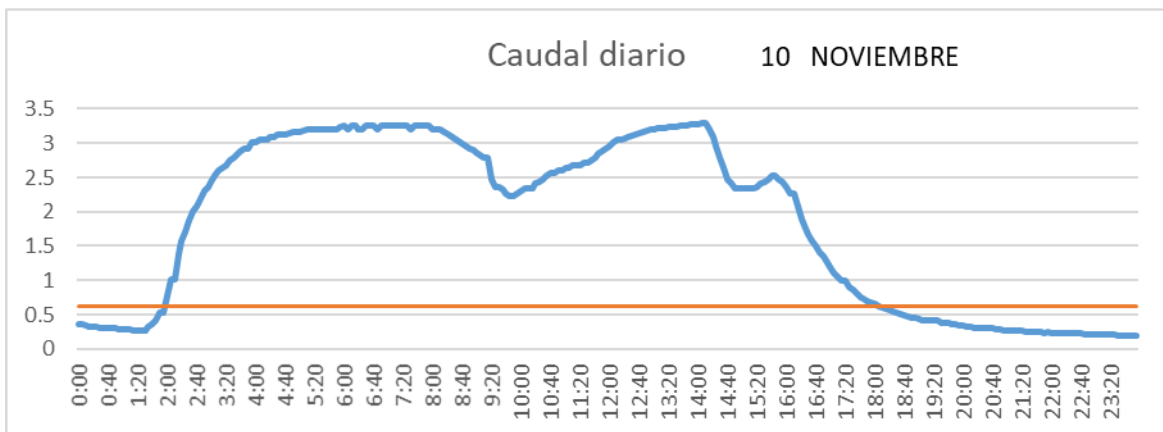
SAN LORENZO PARRILLA



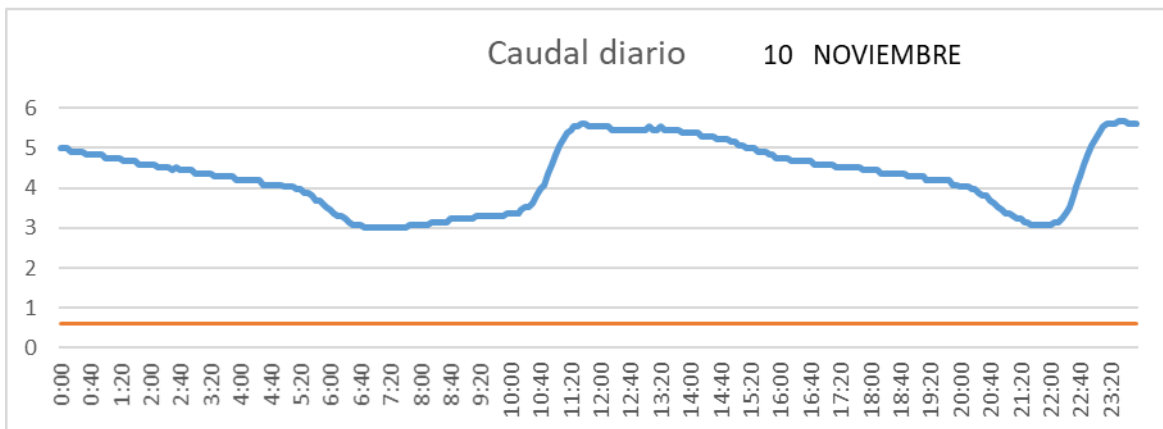
SALIDA TOBA



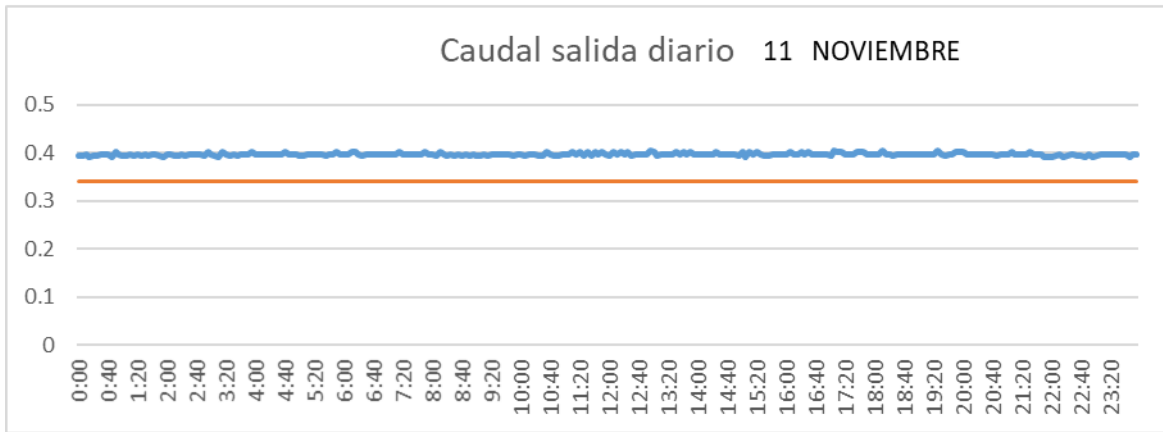
CUENCA



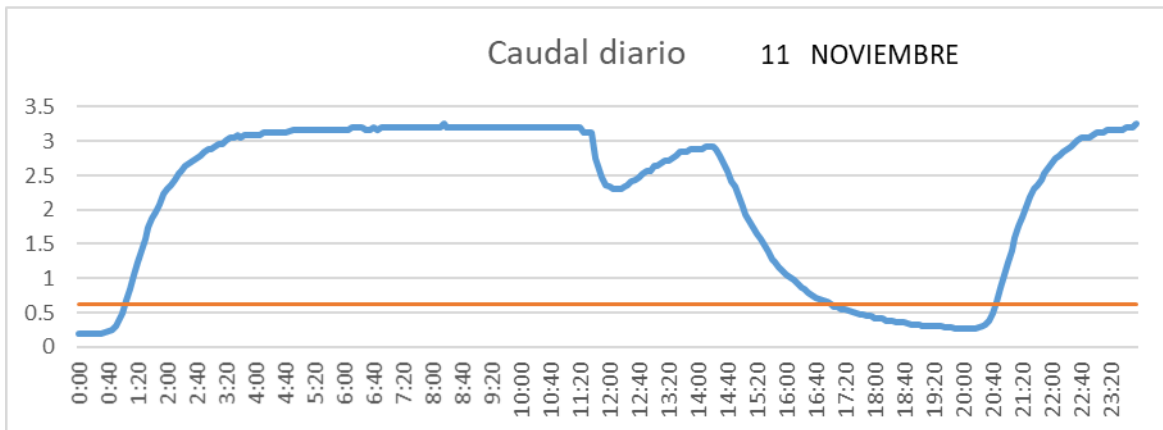
SAN LORENZO PARRILLA



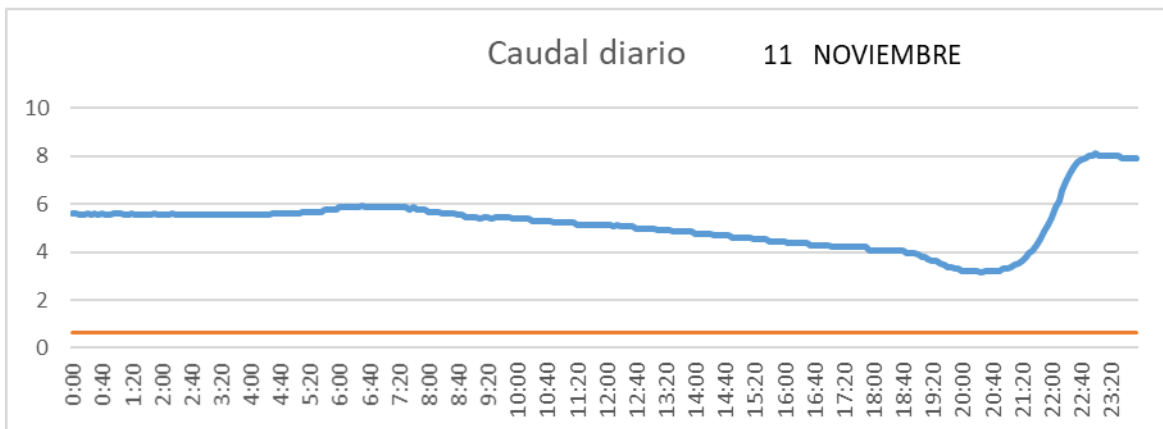
SALIDA TOBA



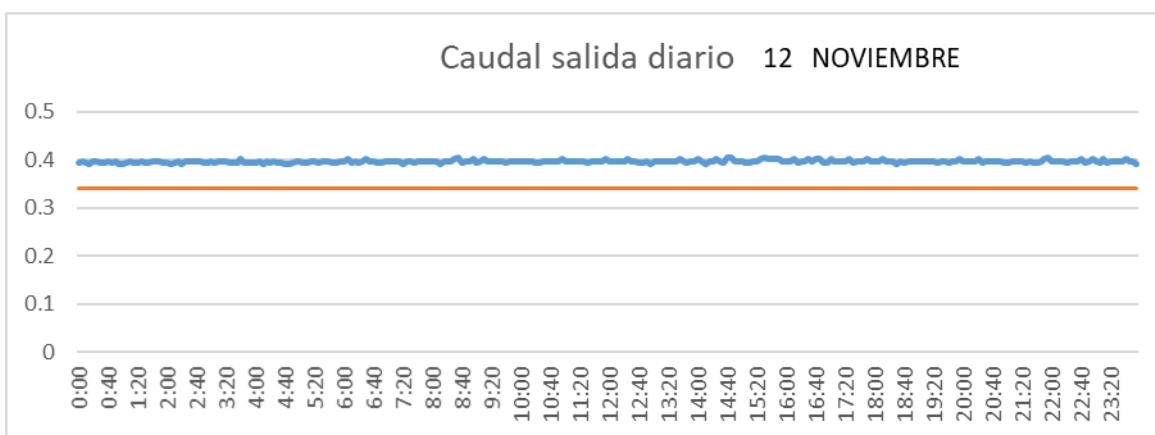
CUENCA



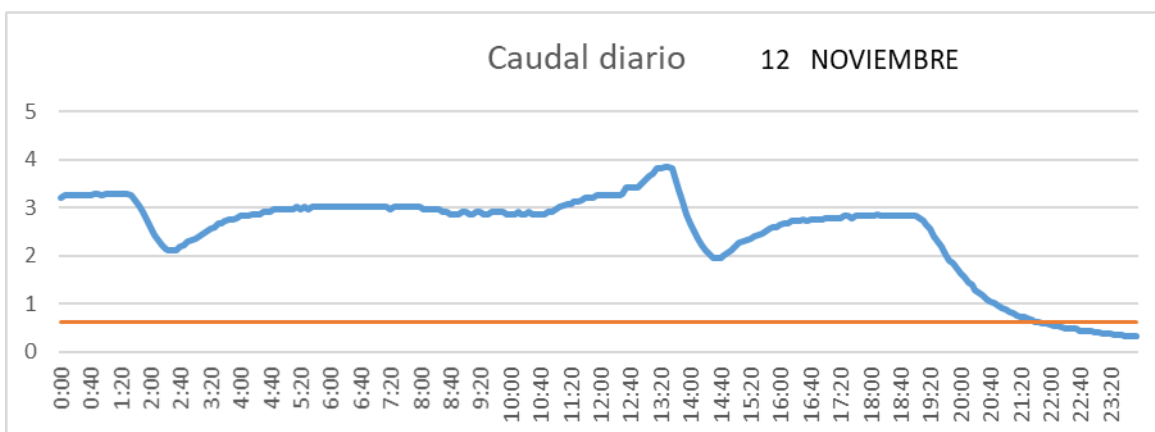
SAN LORENZO PARRILLA



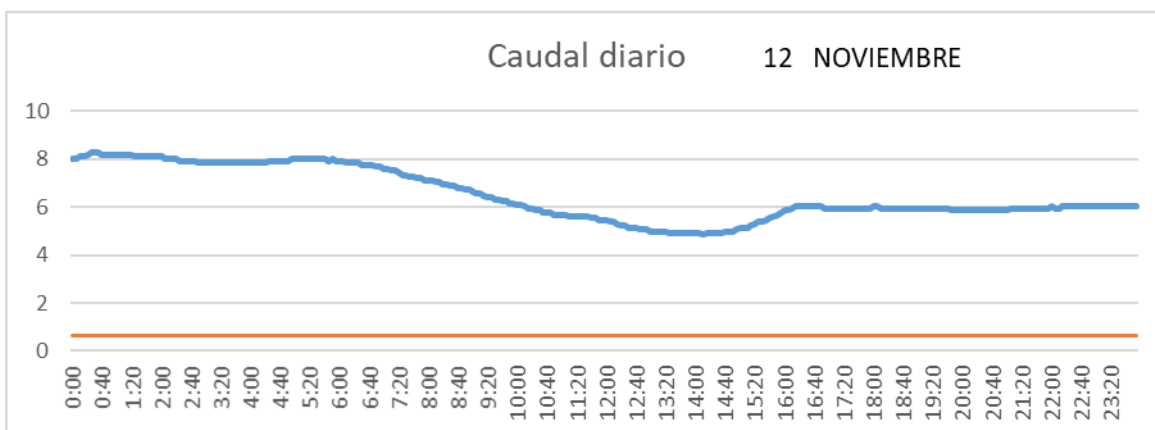
SALIDA TOBA



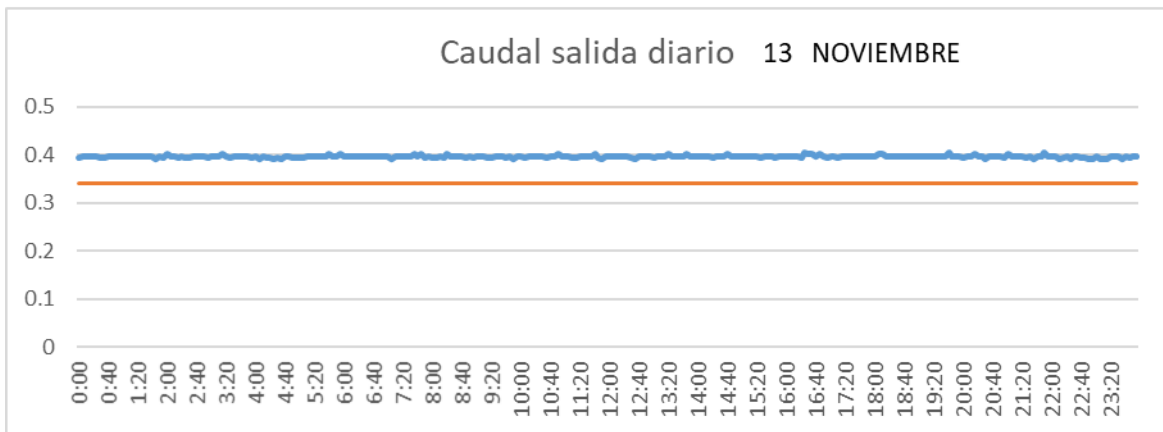
CUENCA



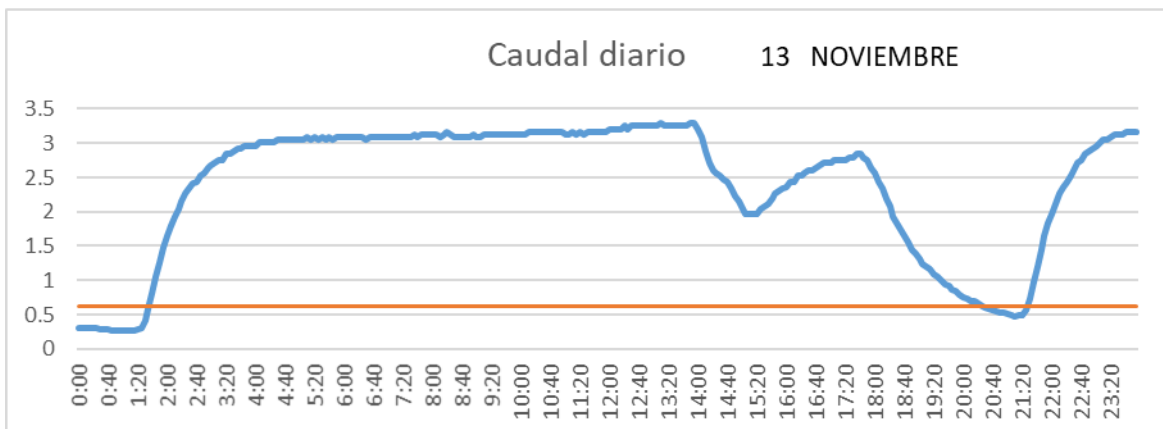
SAN LORENZO PARRILLA



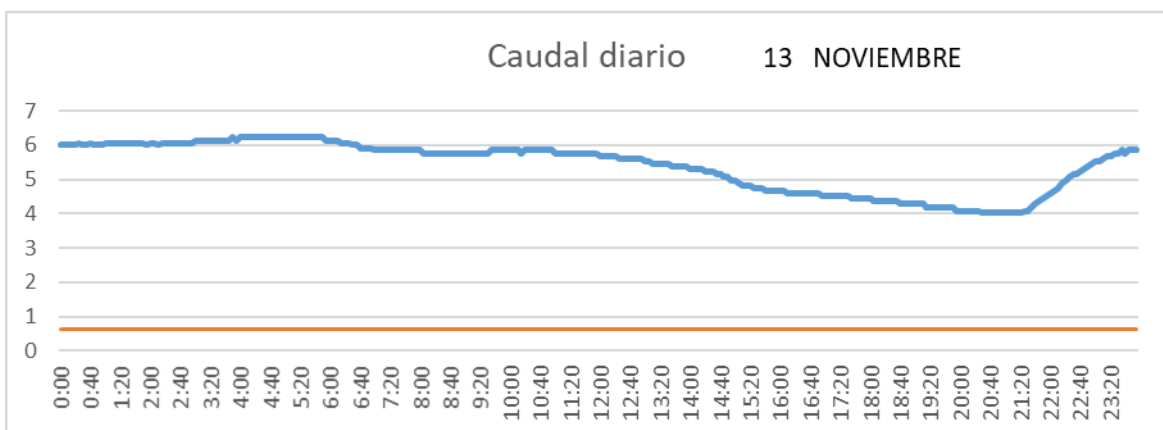
SALIDA TOBA



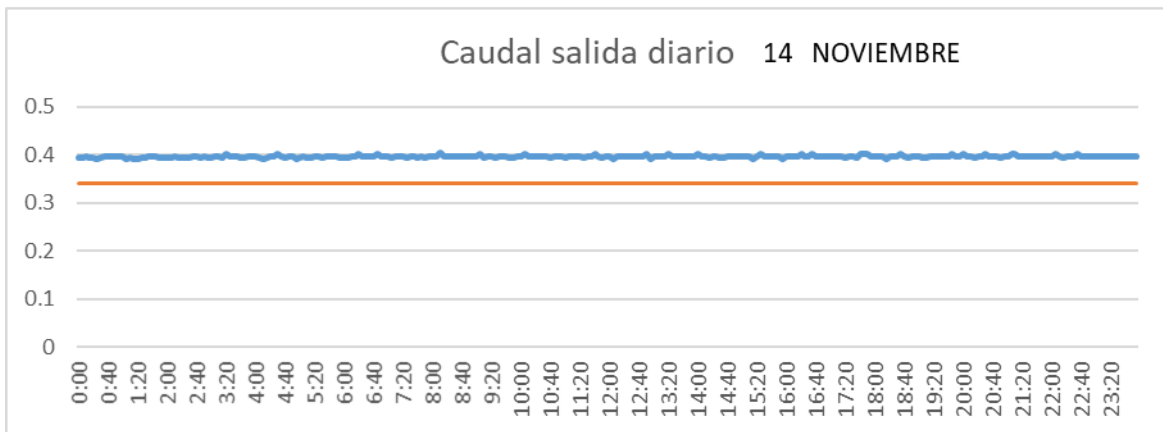
CUENCA



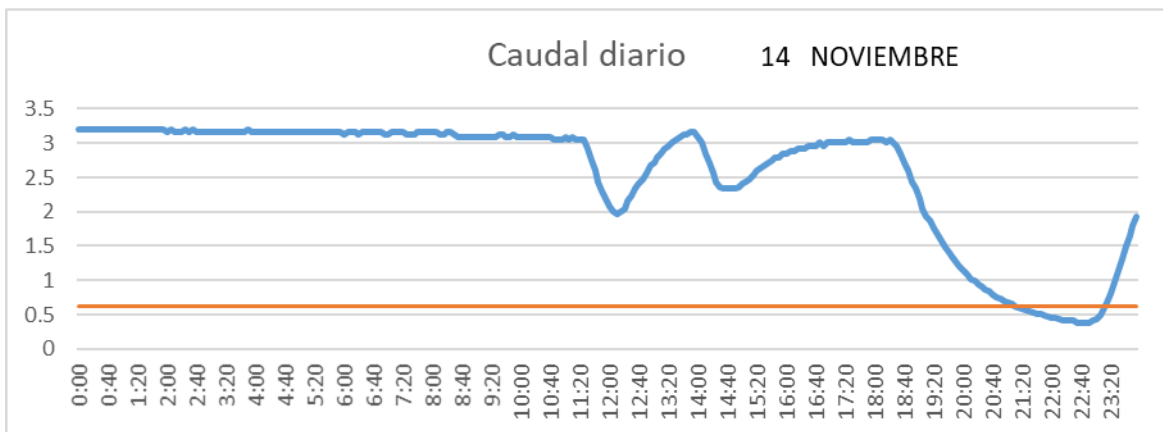
SAN LORENZO PARRILLA



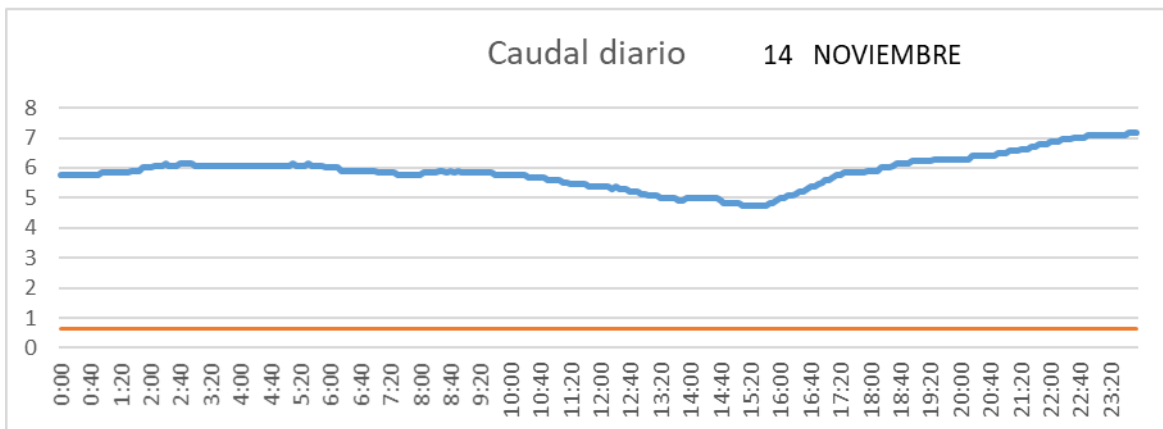
SALIDA TOBA



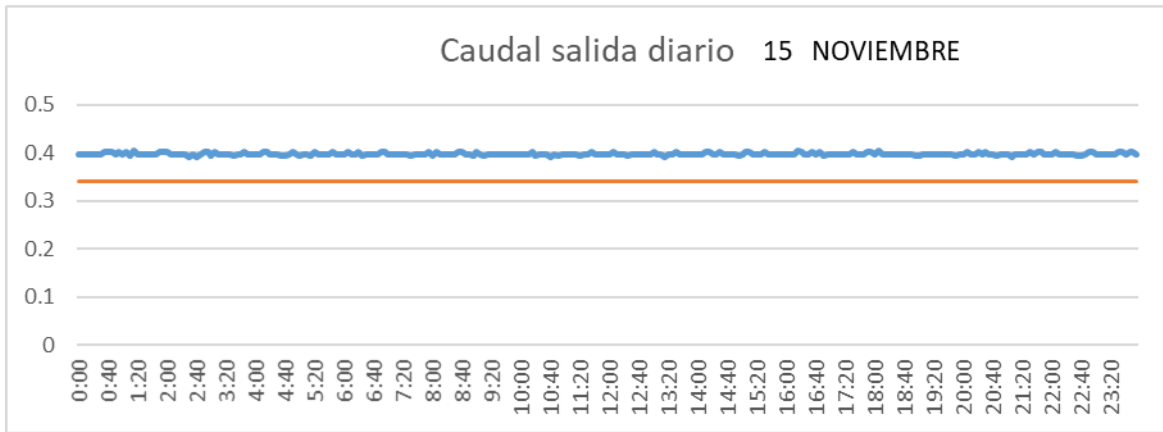
CUENCA



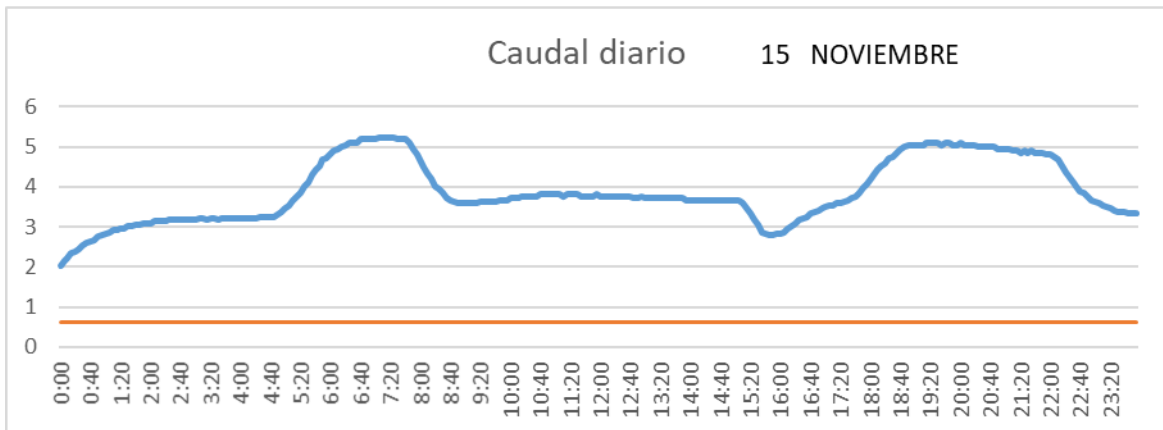
SAN LORENZO PARRILLA



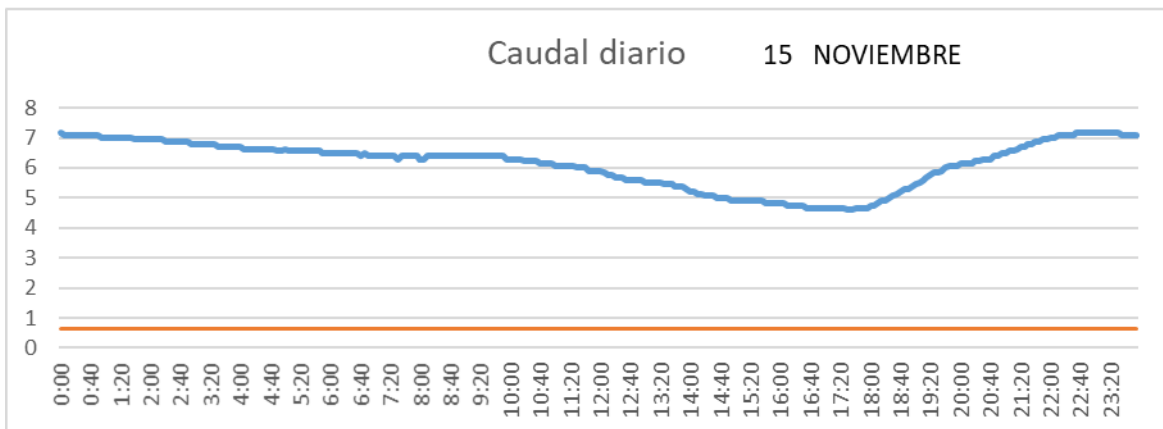
SALIDA TOBA



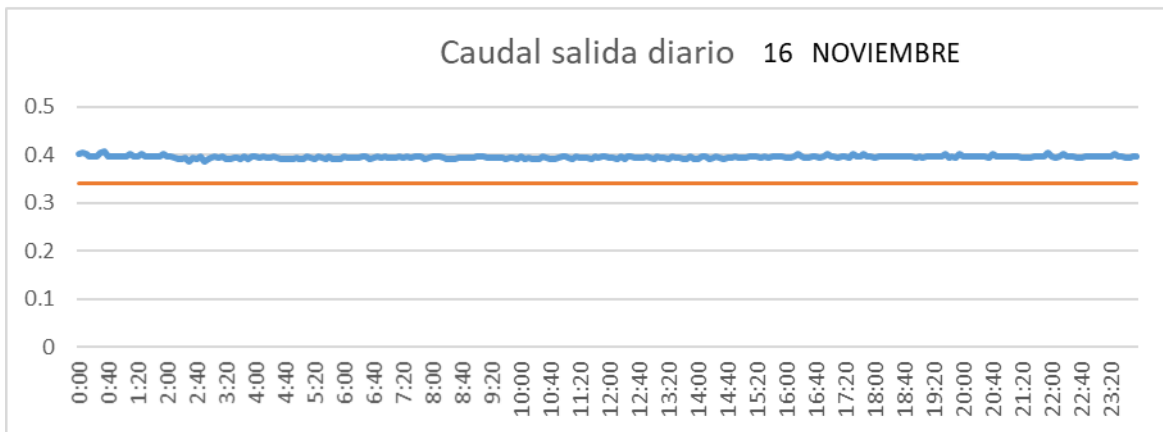
CUENCA



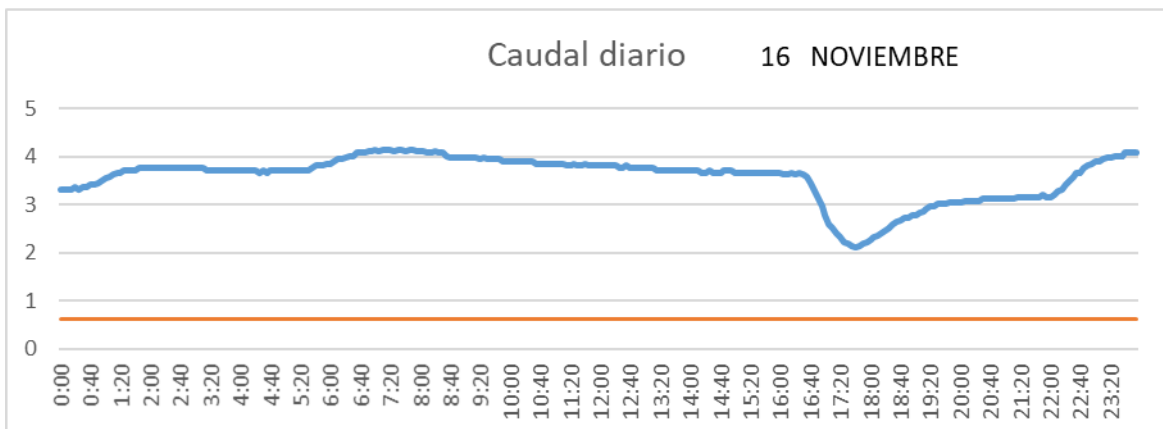
SAN LORENZO PARRILLA



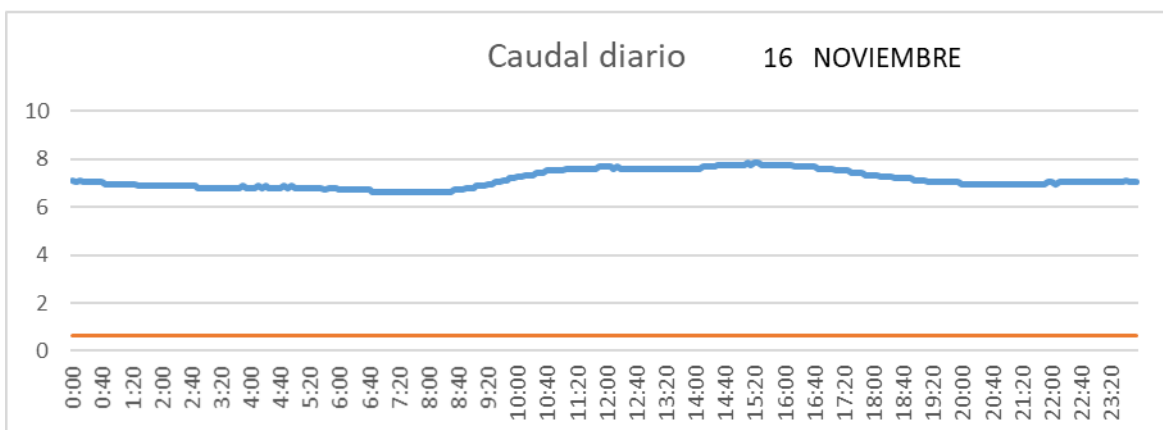
SALIDA TOBA



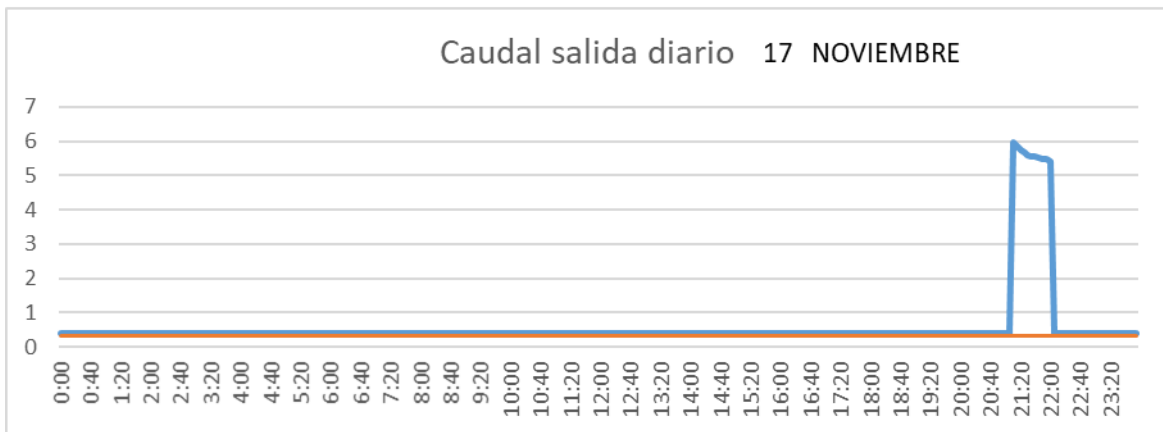
CUENCA



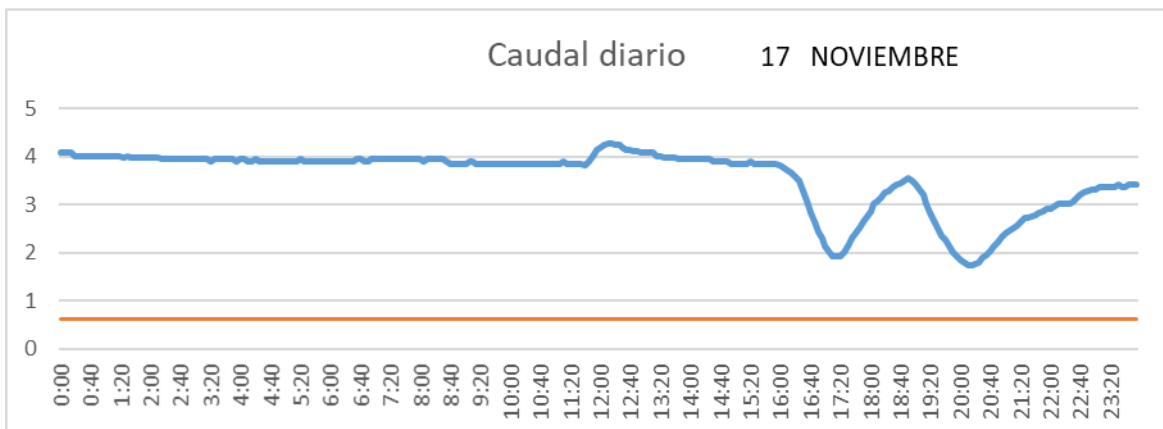
SAN LORENZO PARRILLA



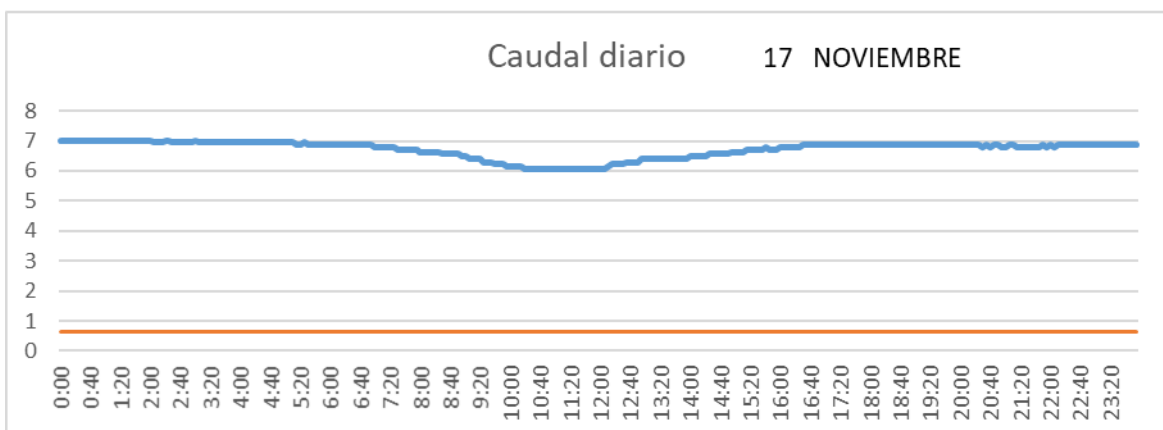
SALIDA TOBA



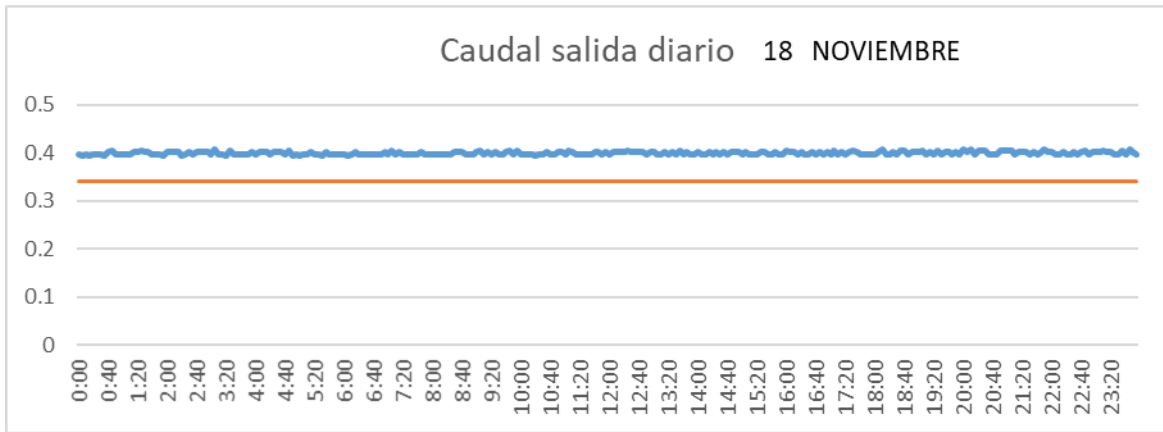
CUENCA



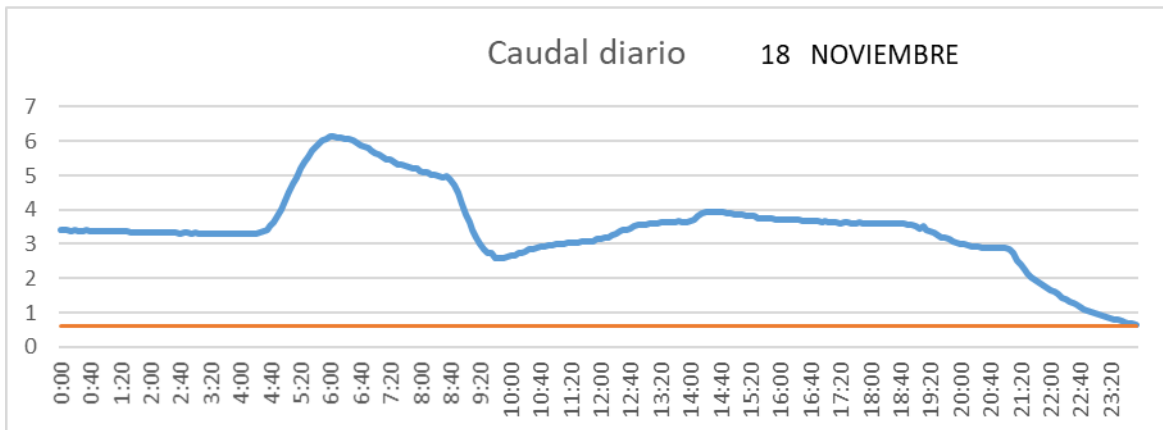
SAN LORENZO PARRILLA



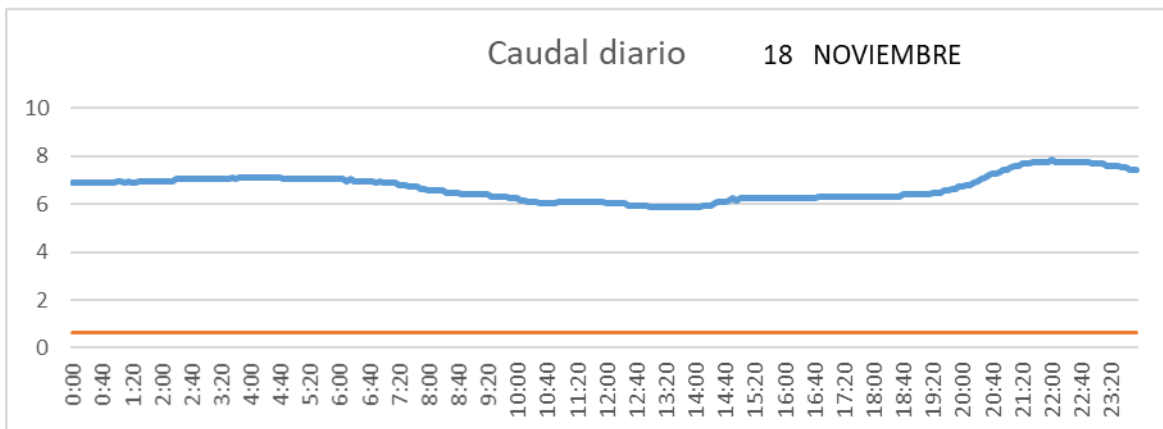
SALIDA TOBA



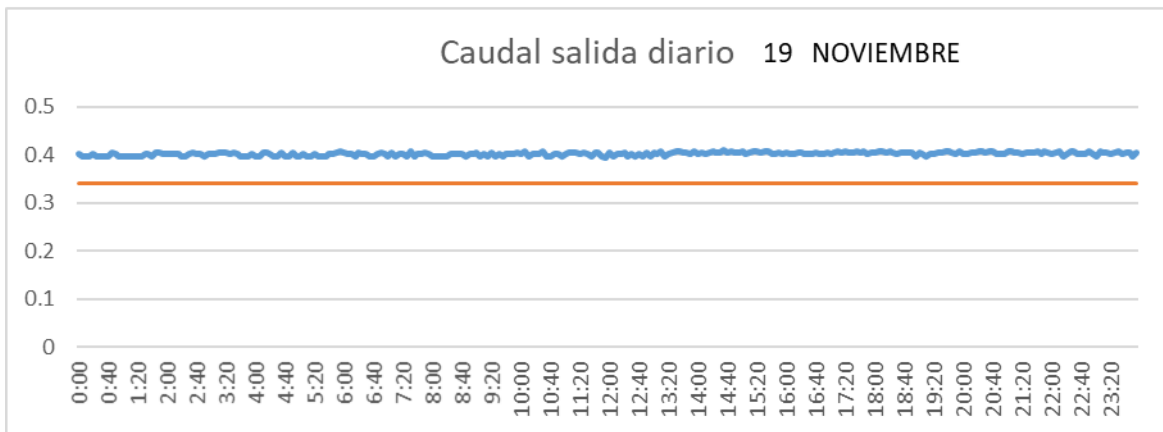
CUENCA



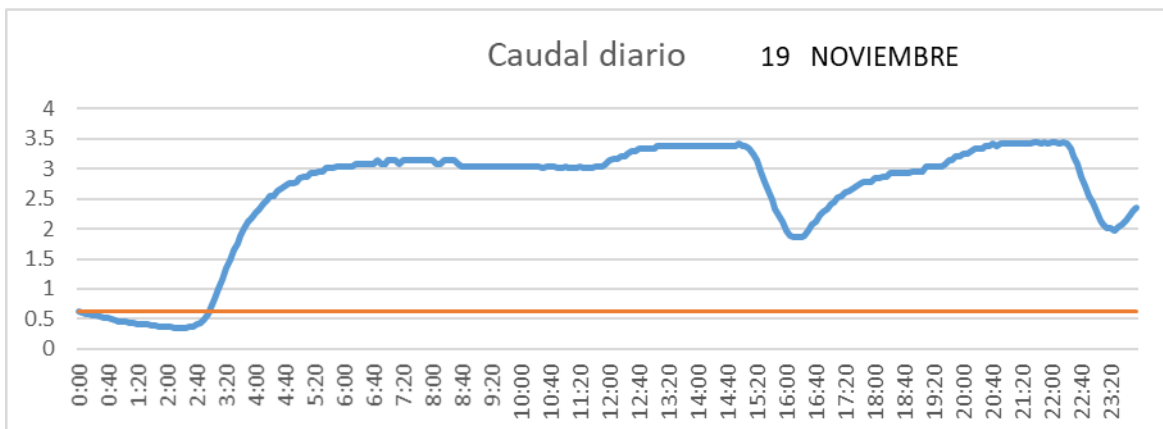
SAN LORENZO PARRILLA



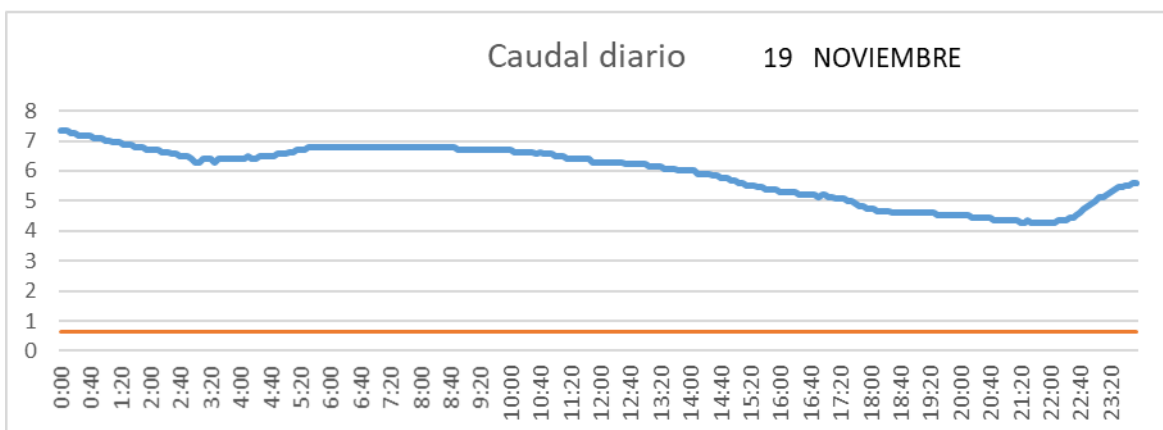
SALIDA TOBA



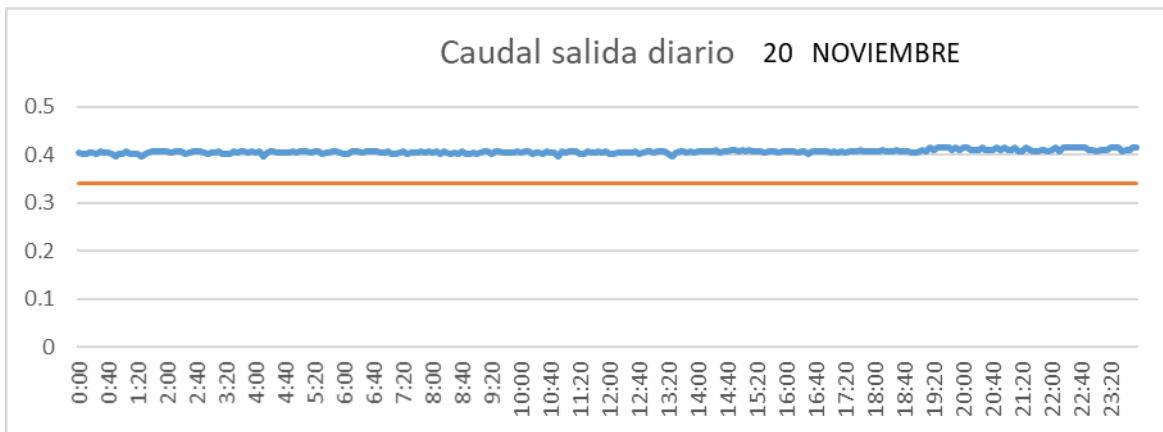
CUENCA



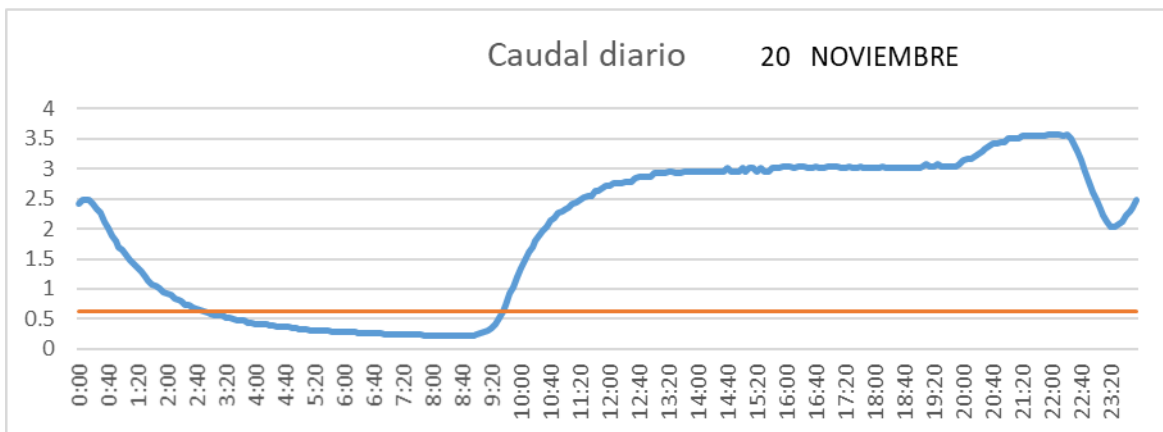
SAN LORENZO PARRILLA



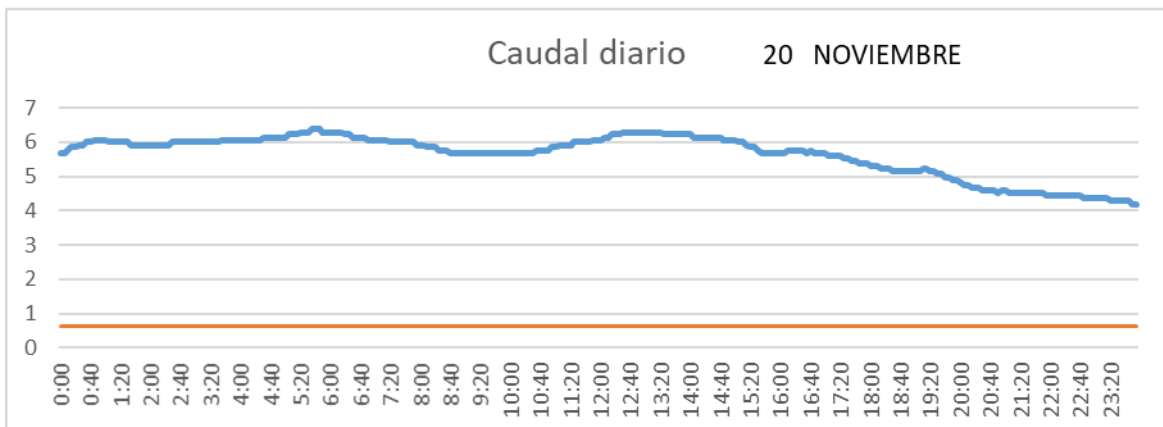
SALIDA TOBA



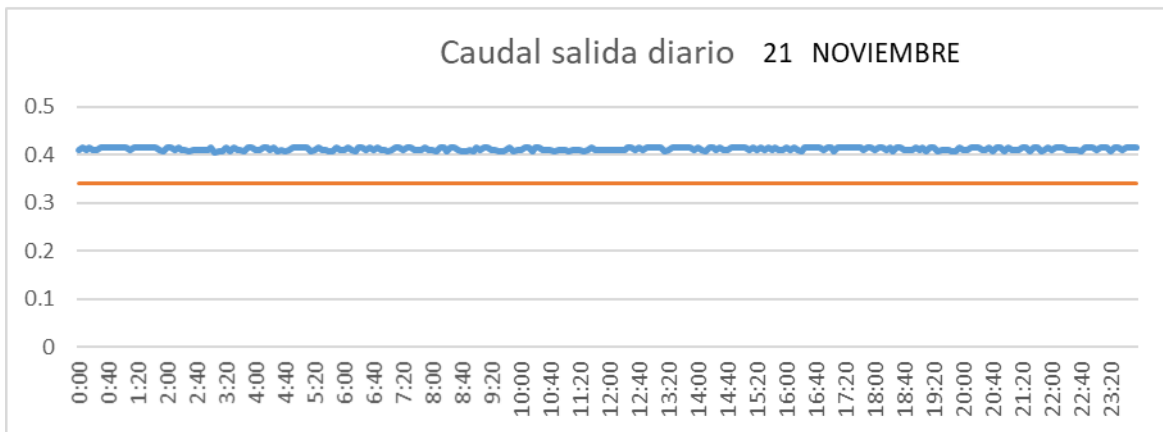
CUENCA



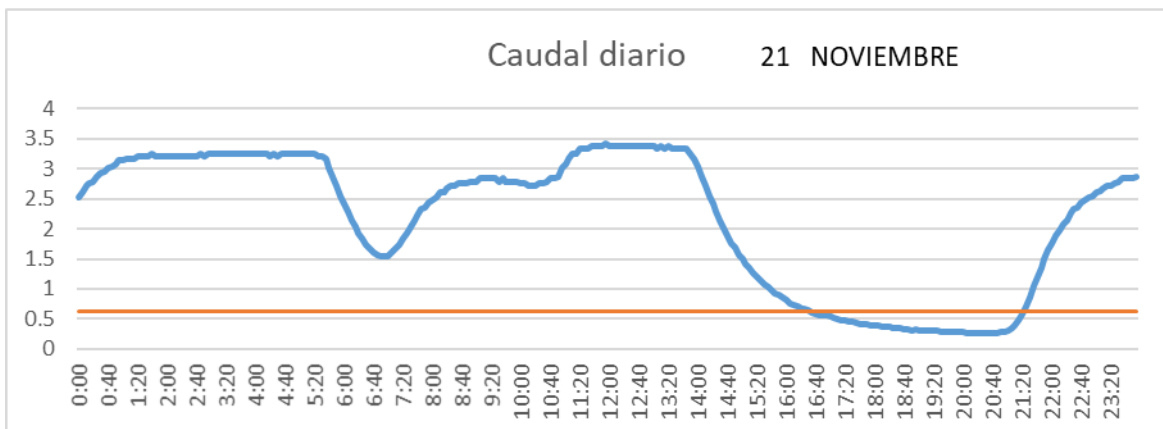
SAN LORENZO PARRILLA



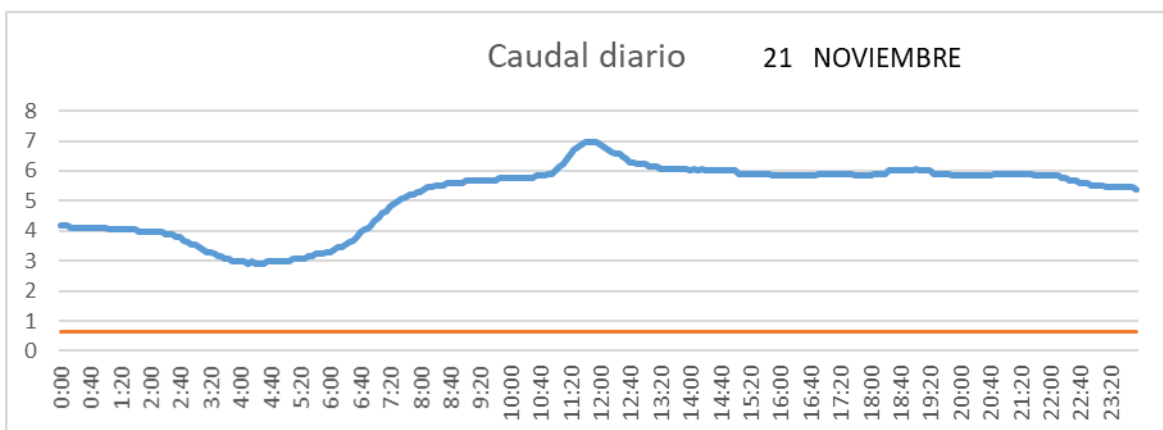
SALIDA TOBA



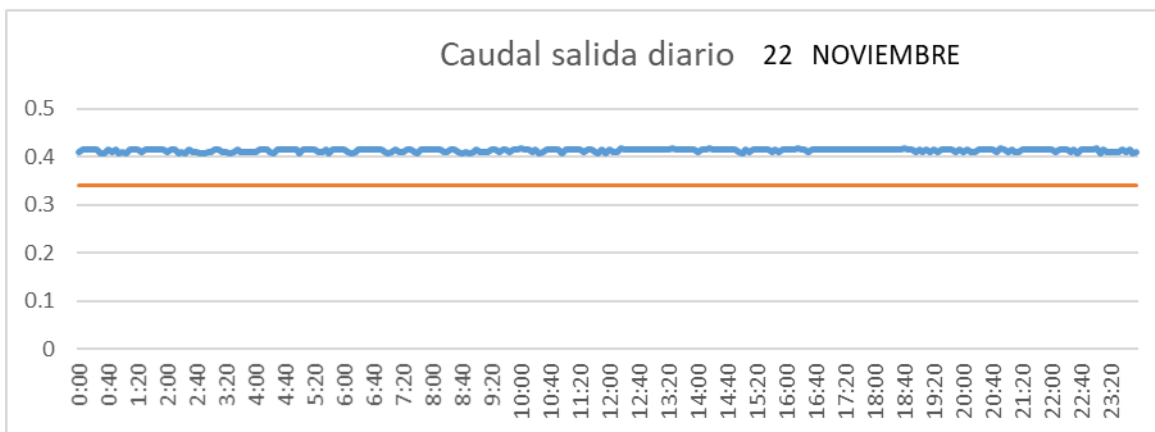
CUENCA



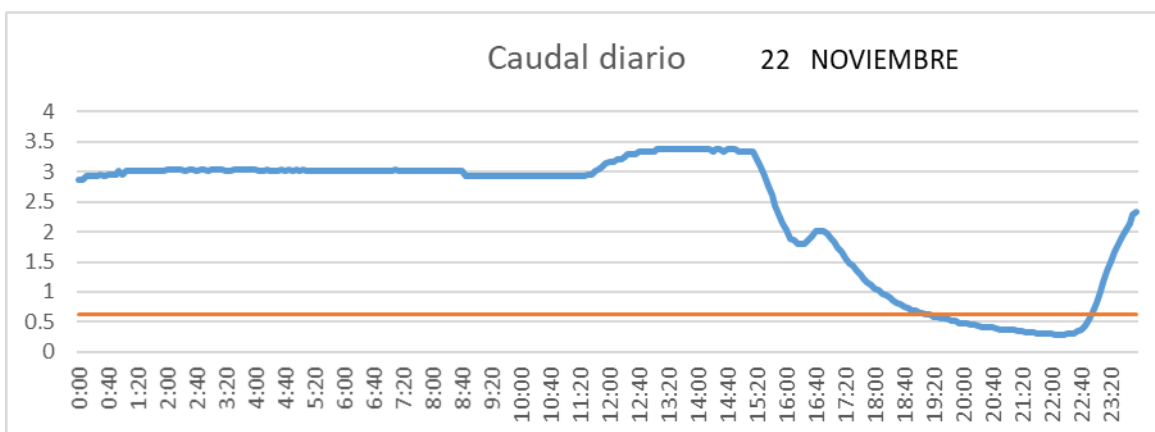
SAN LORENZO PARRILLA



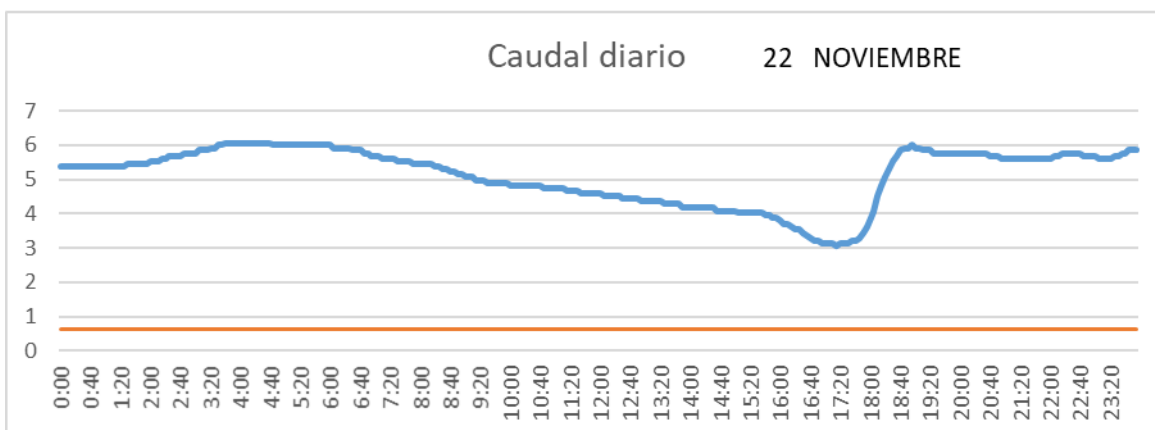
SALIDA TOBA



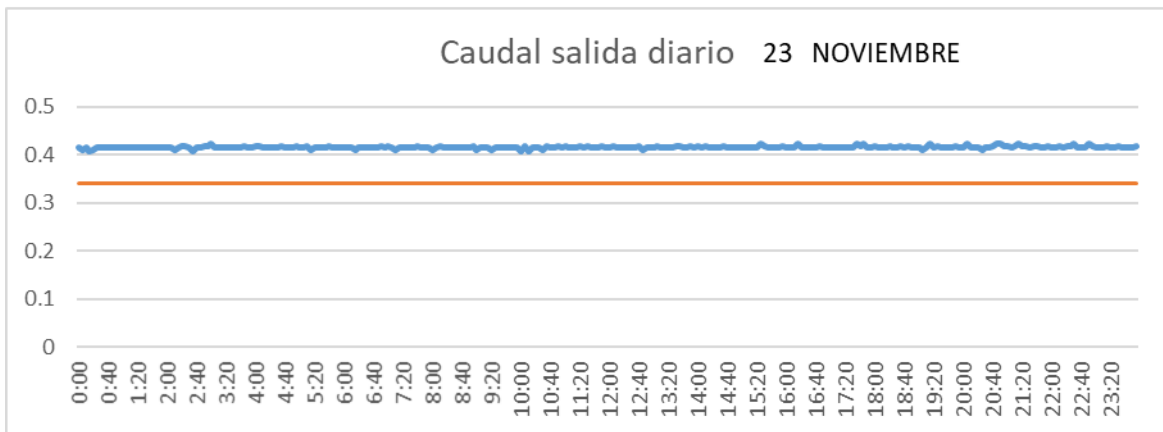
CUENCA



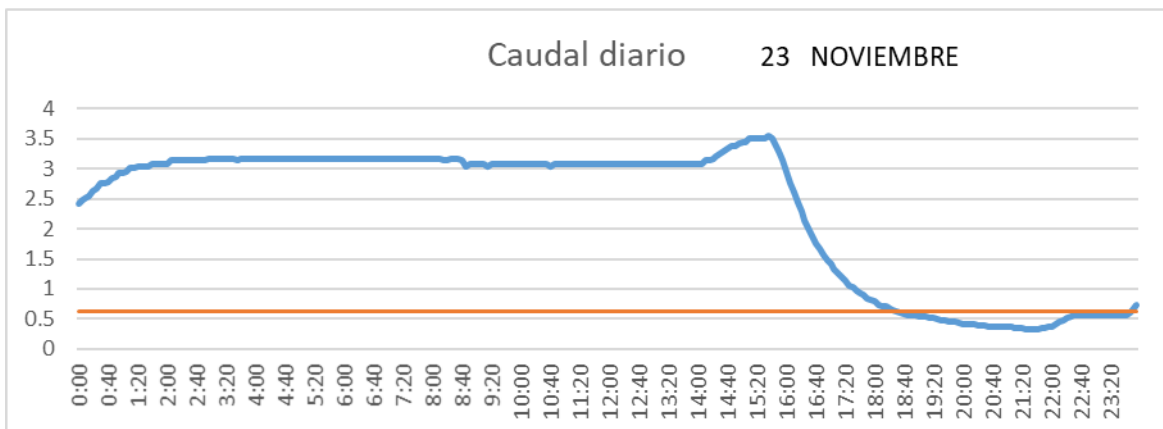
SAN LORENZO PARRILLA



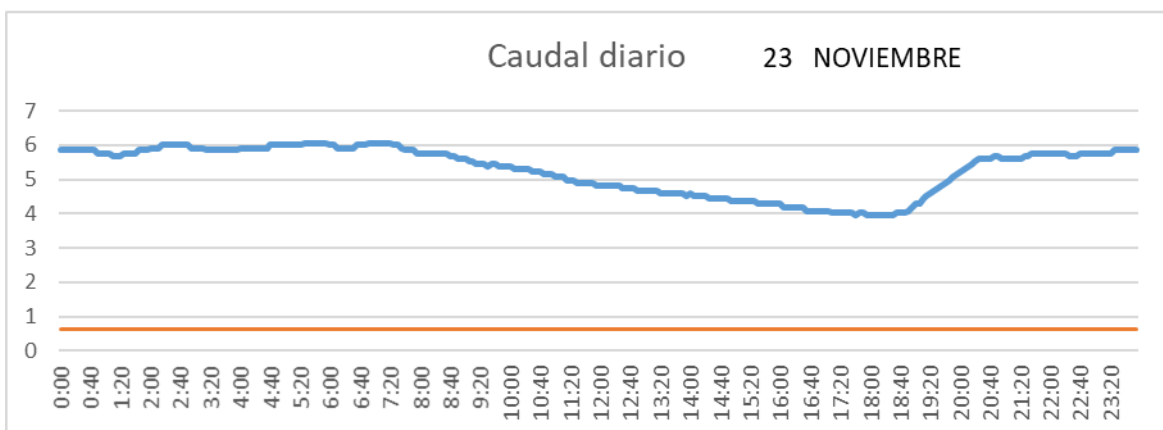
SALIDA TOBA



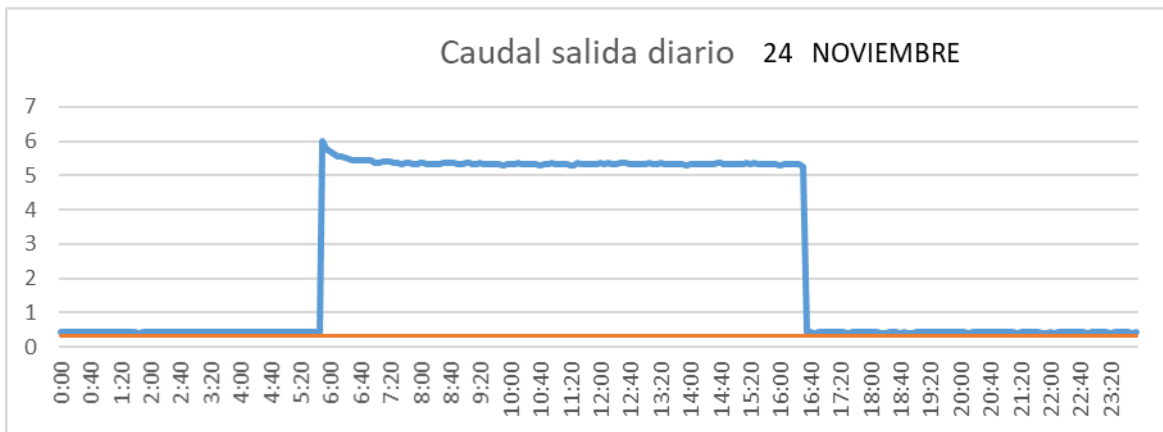
CUENCA



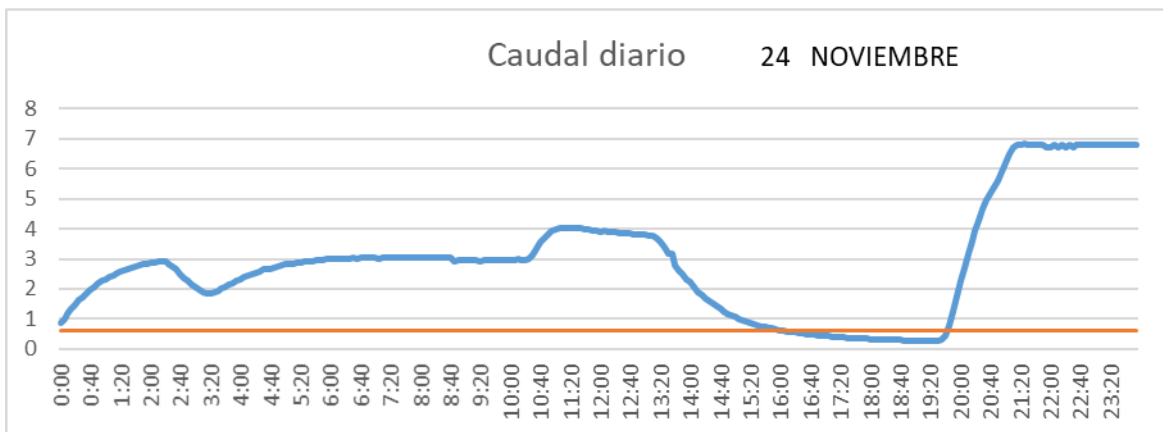
SAN LORENZO PARRILLA



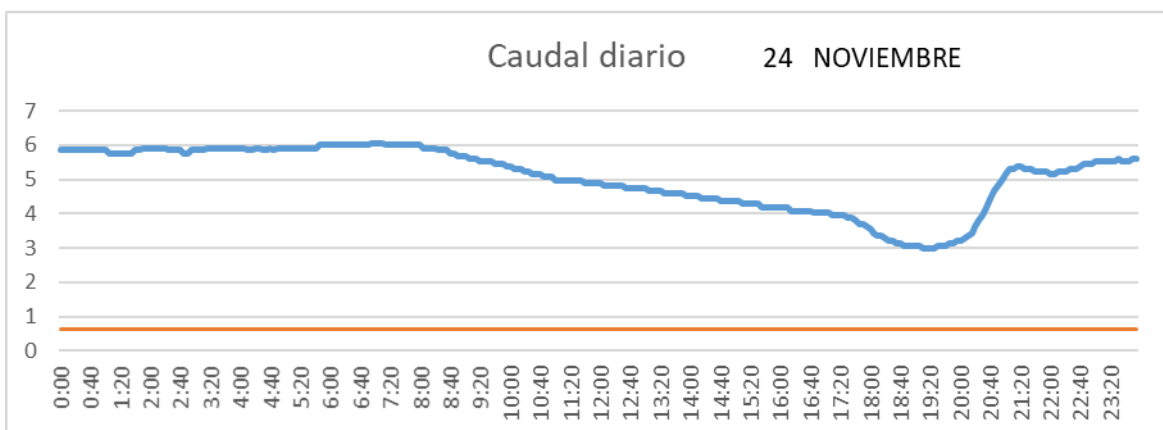
SALIDA TOBA



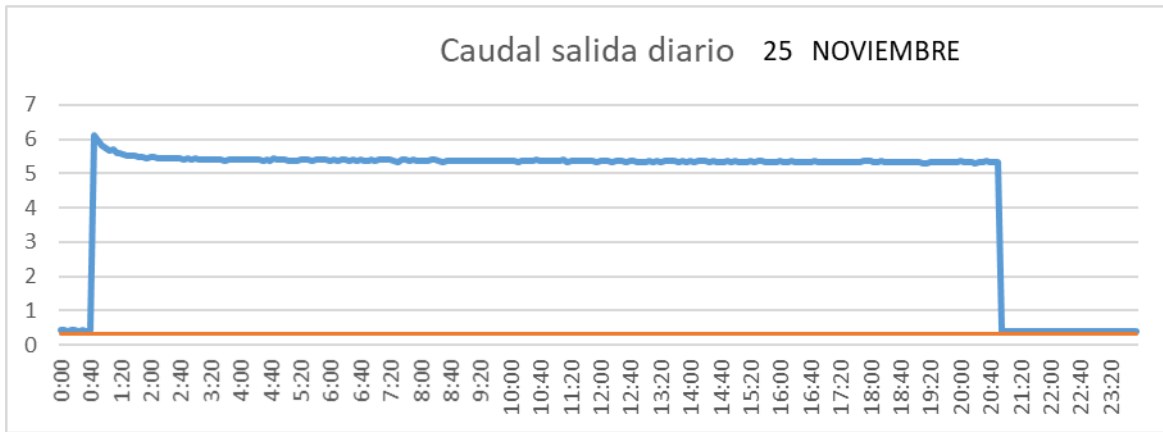
CUENCA



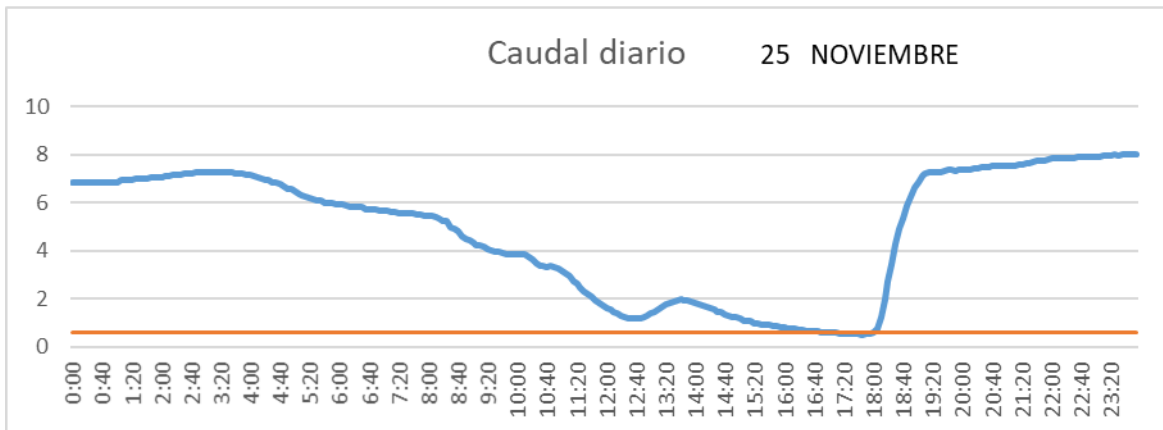
SAN LORENZO PARRILLA



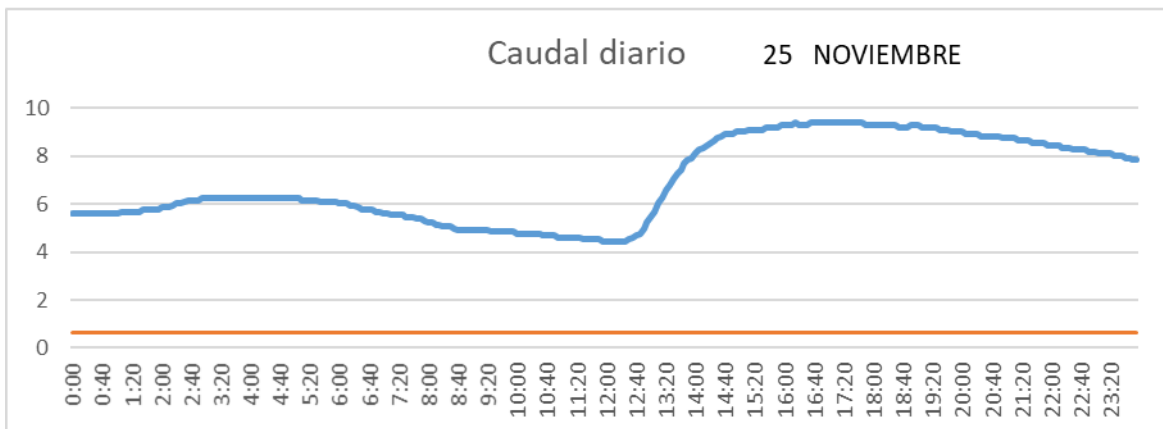
SALIDA TOBA



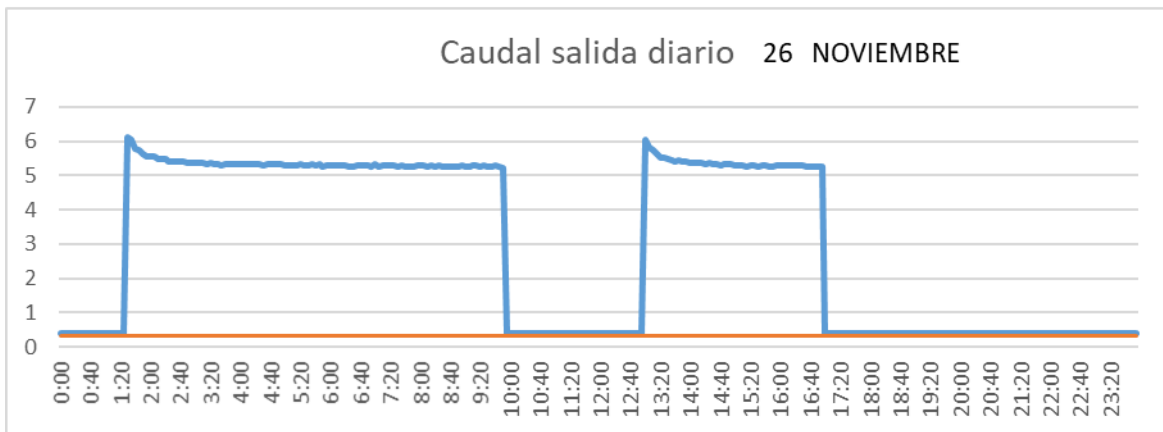
CUENCA



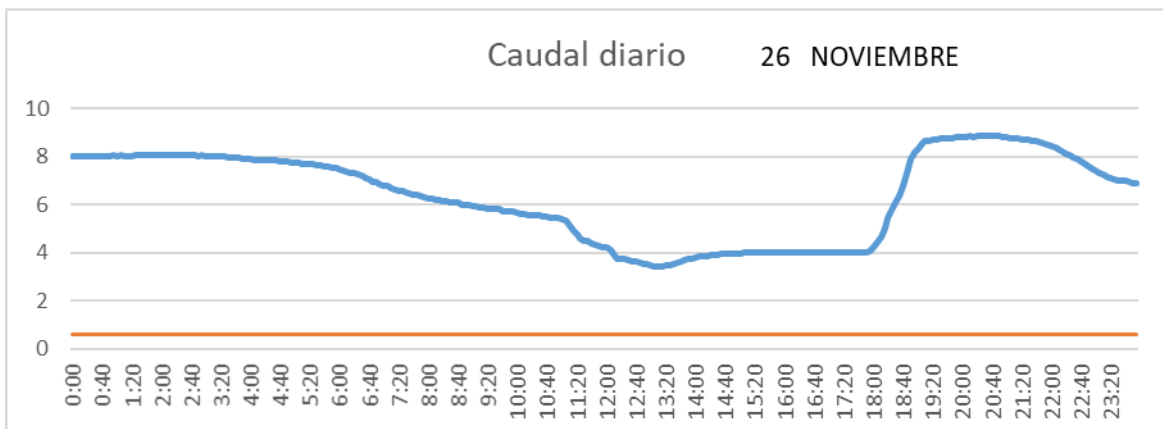
SAN LORENZO PARRILLA



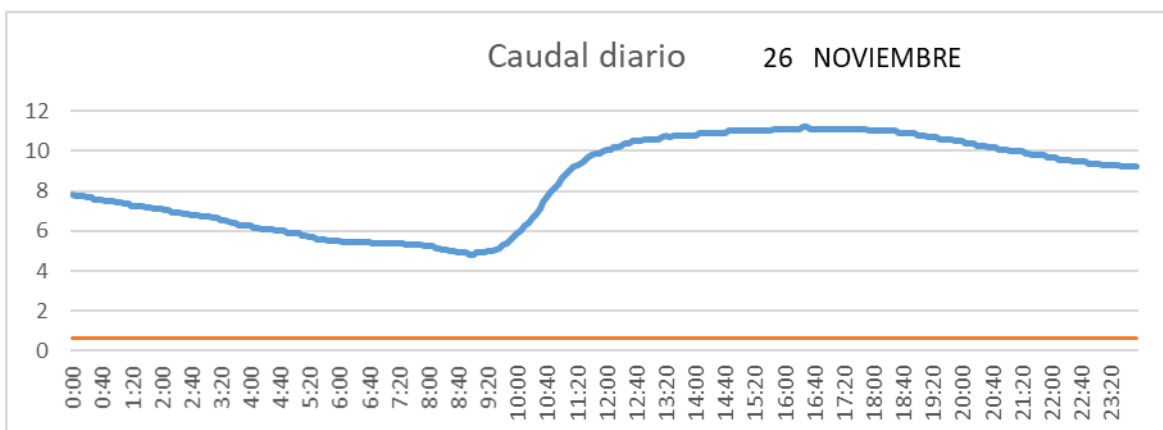
SALIDA TOBA



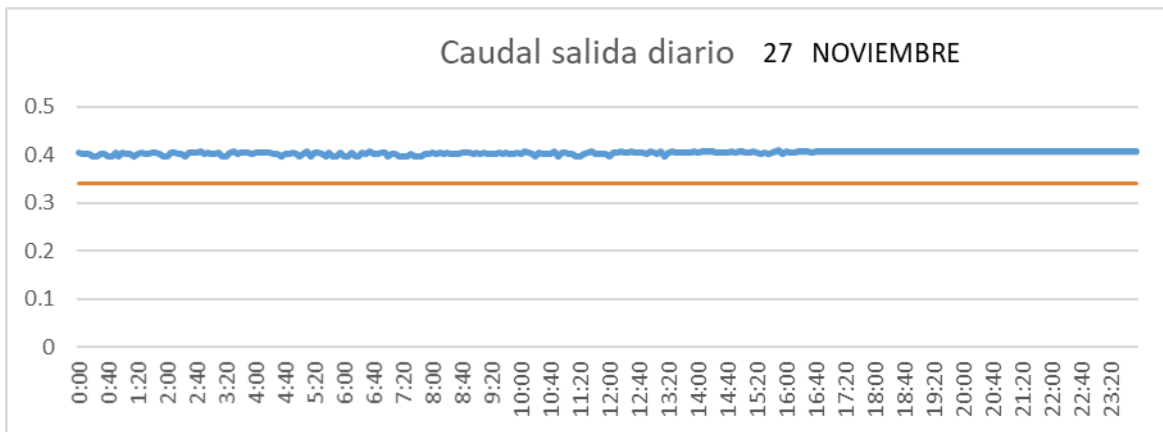
CUENCA



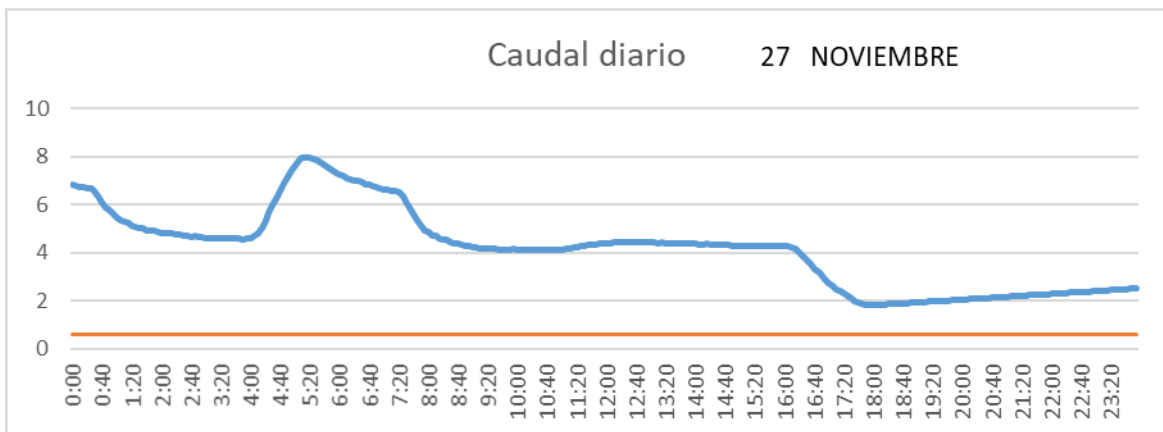
SAN LORENZO PARRILLA



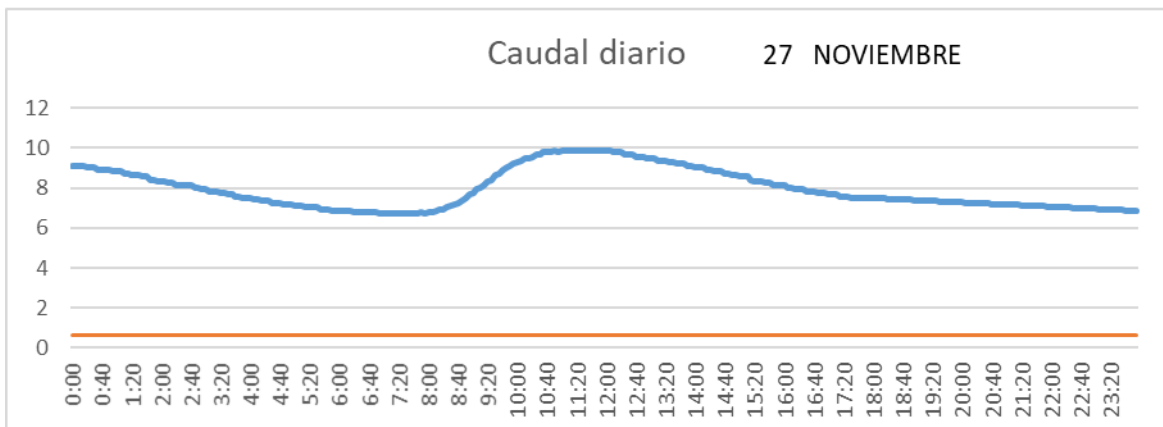
SALIDA TOBA



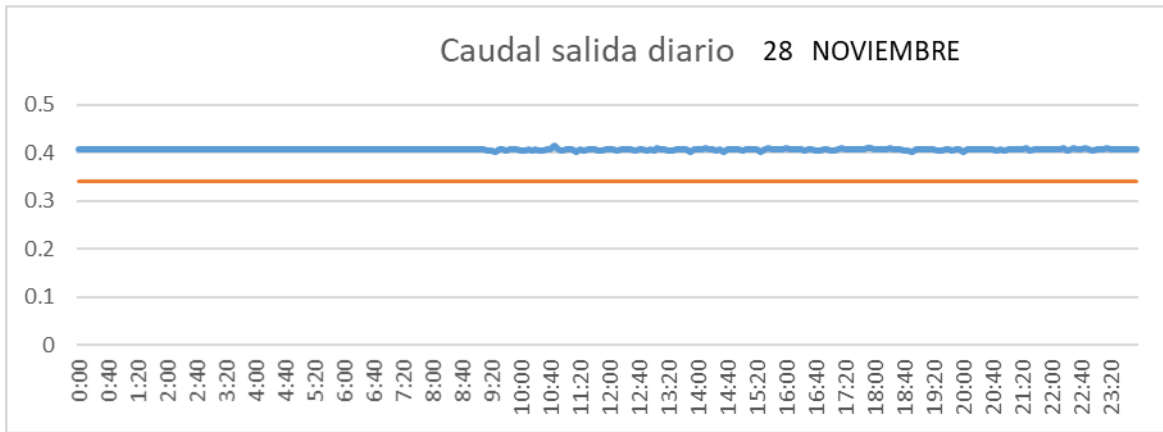
CUENCA



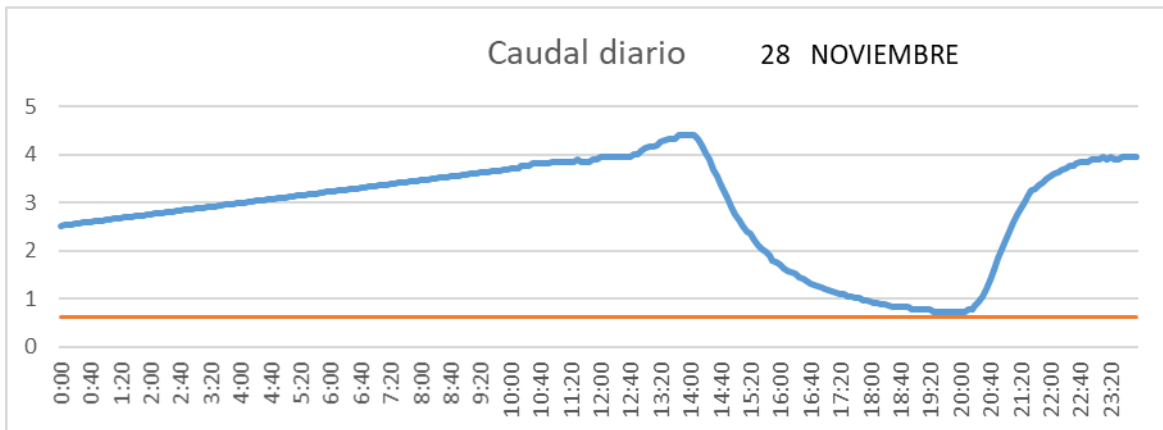
SAN LORENZO PARRILLA



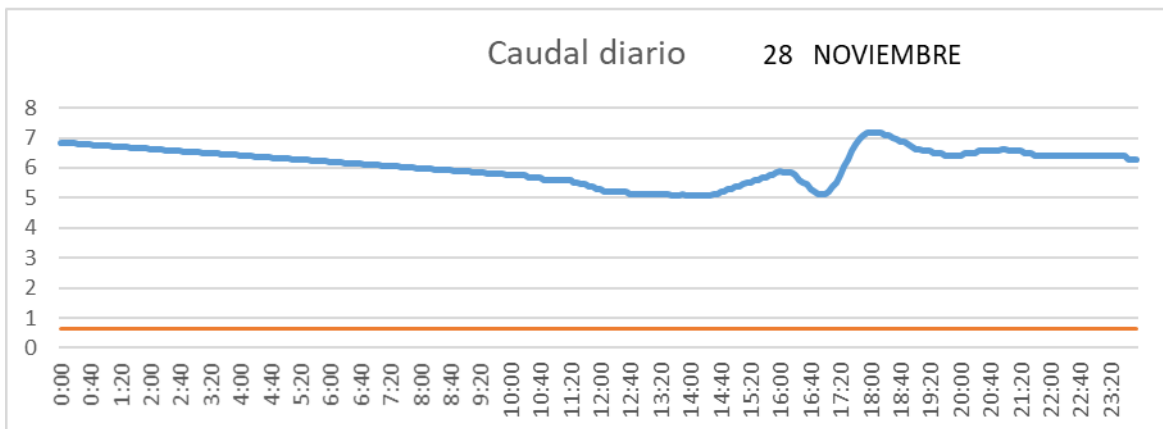
SALIDA TOBA



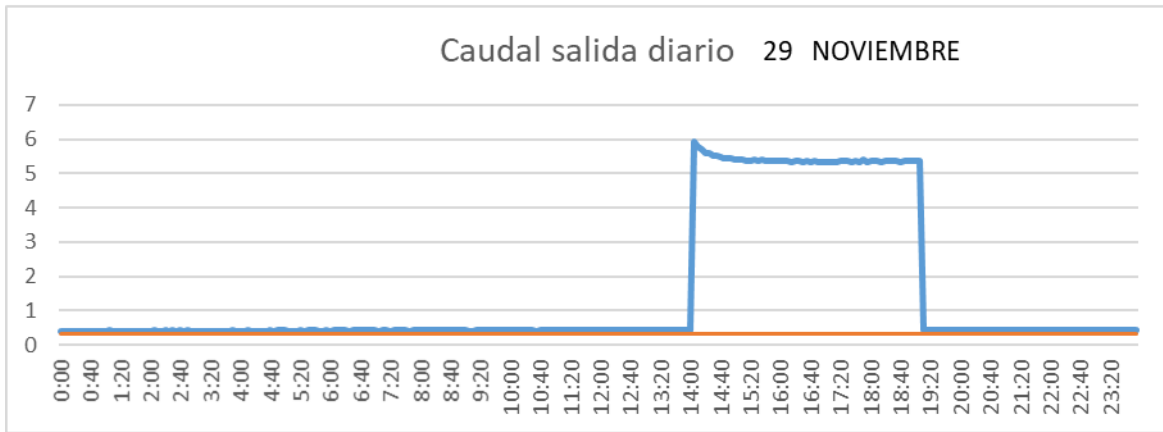
CUENCA



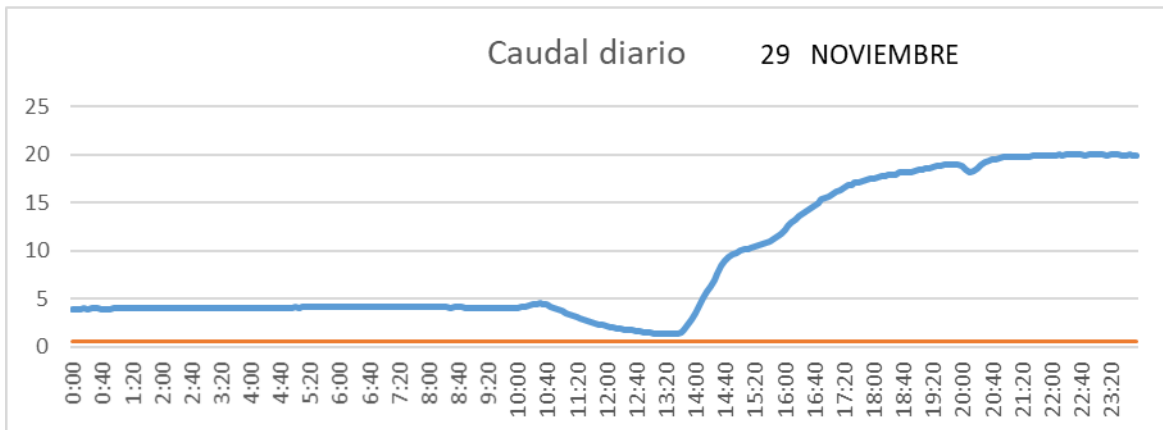
SAN LORENZO PARRILLA



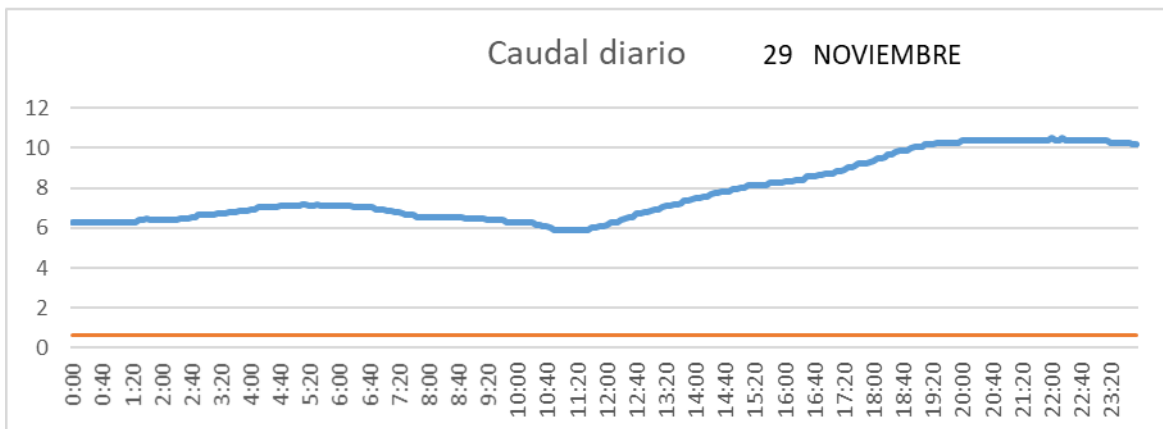
SALIDA TOBA



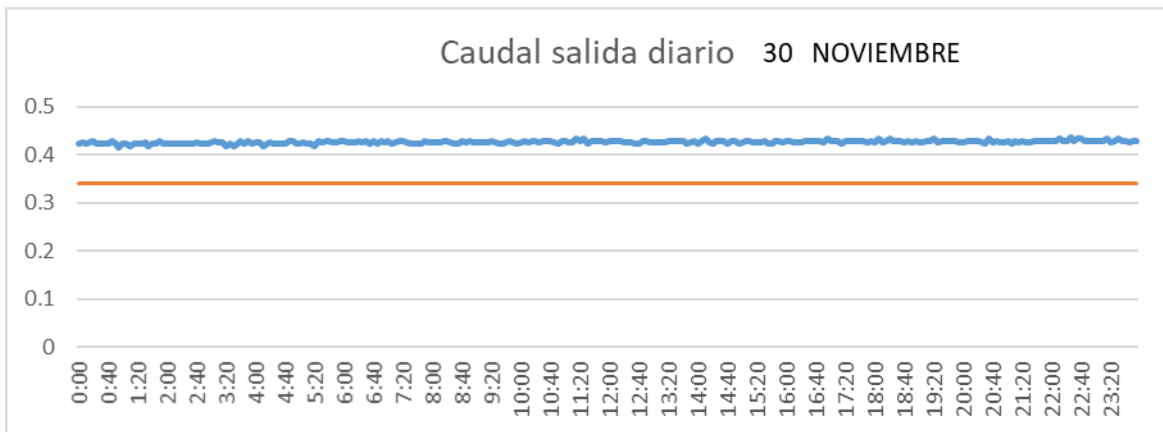
CUENCA



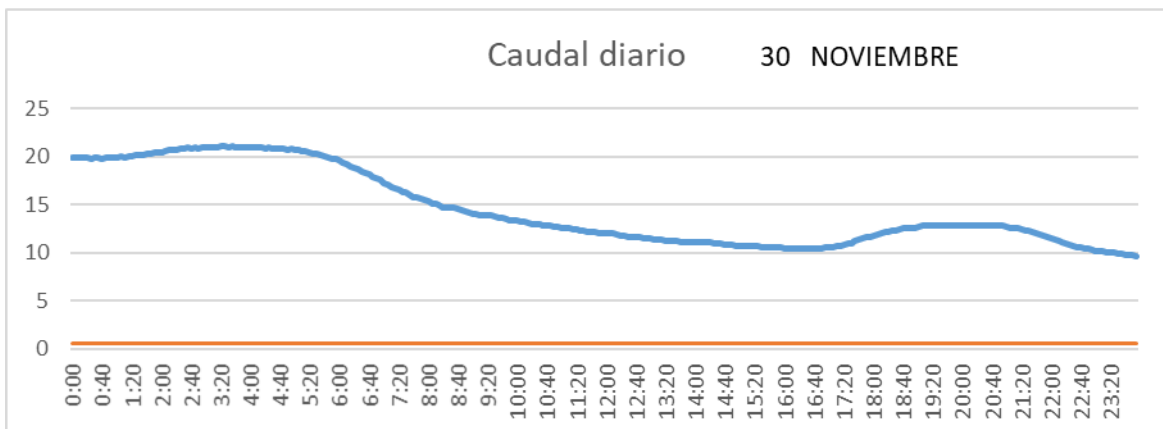
SAN LORENZO PARRILLA



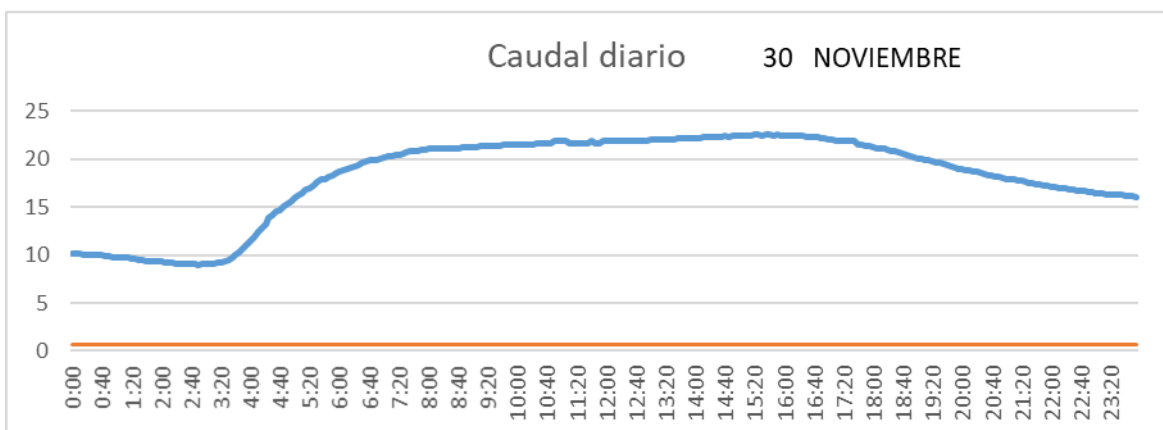
SALIDA TOBA



CUENCA

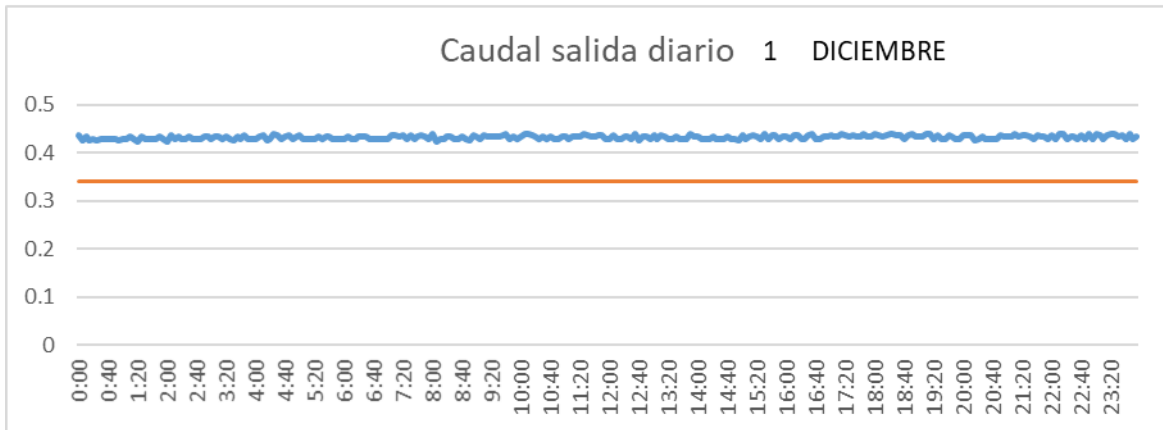


SAN LORENZO PARRILLA

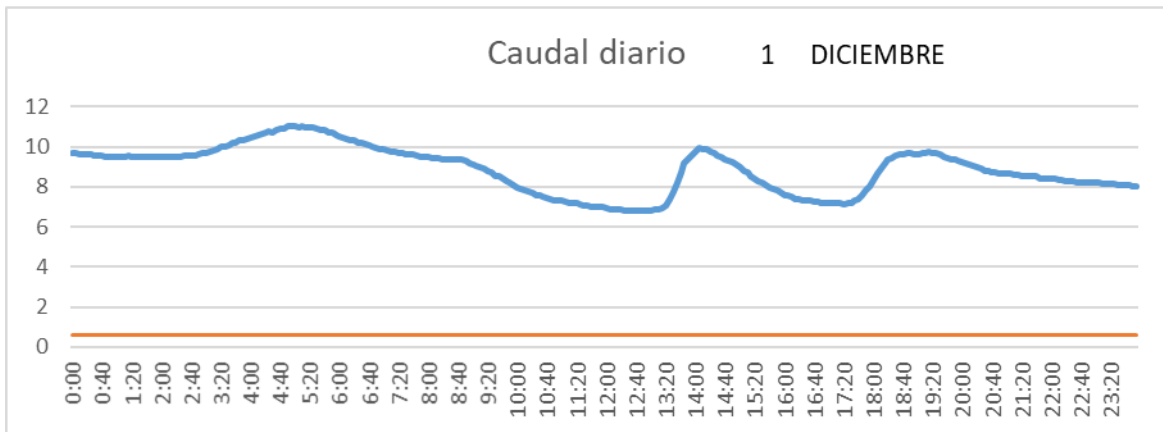


2.1.12 Diciembre

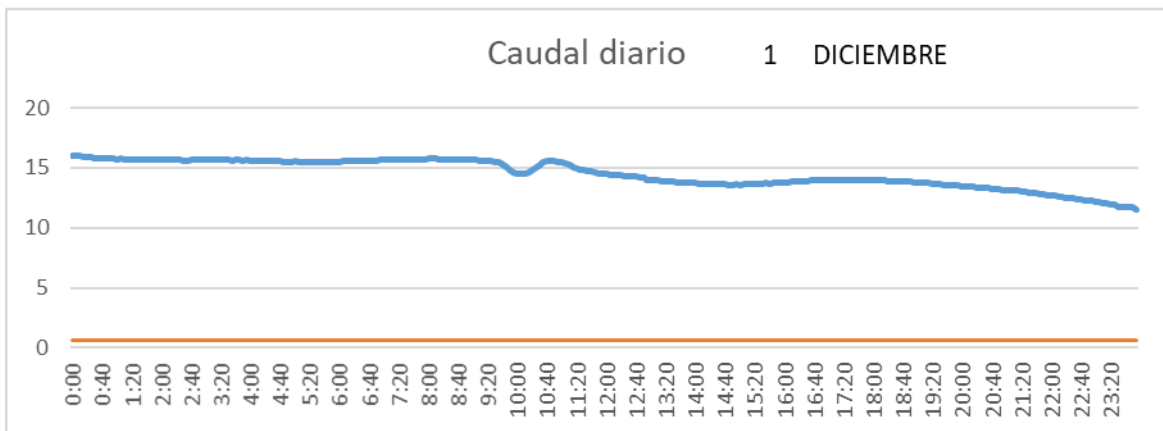
SALIDA TOBA



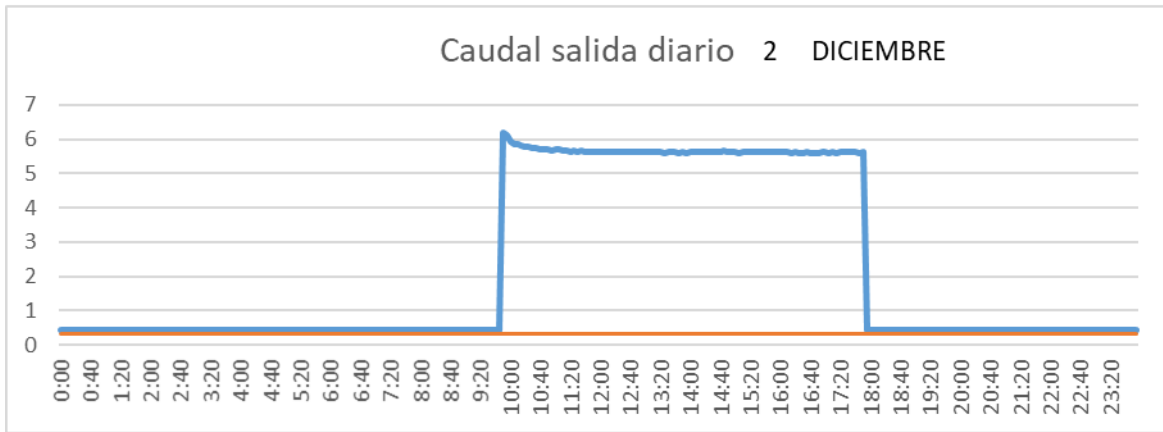
CUENCA



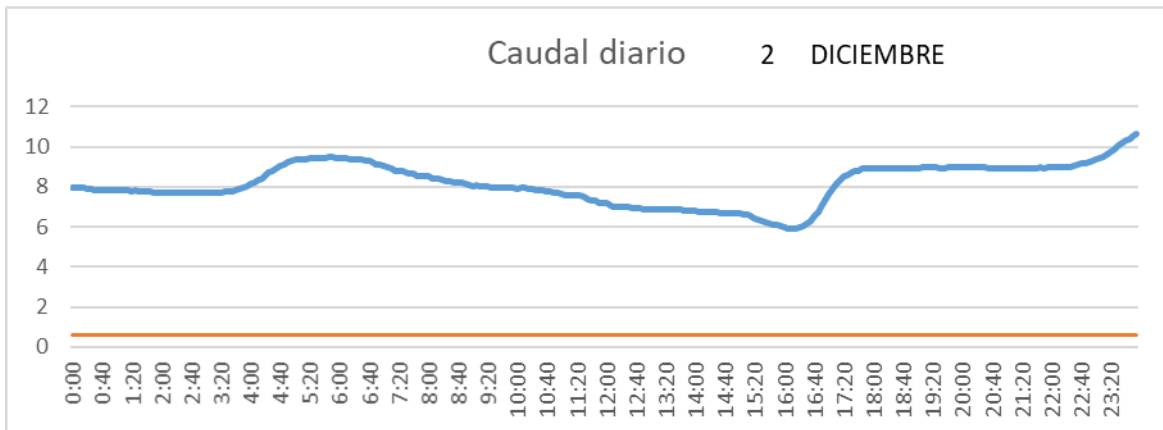
SAN LORENZO PARRILLA



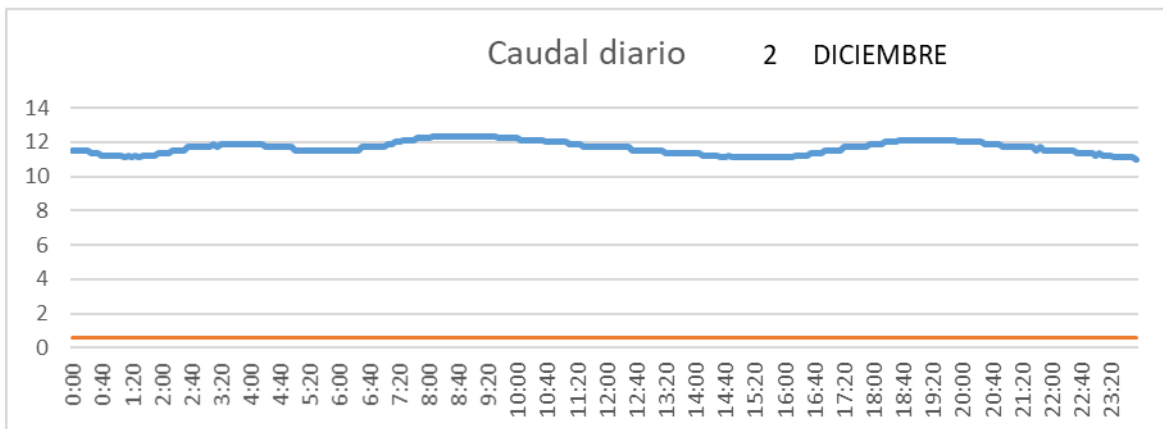
SALIDA TOBA



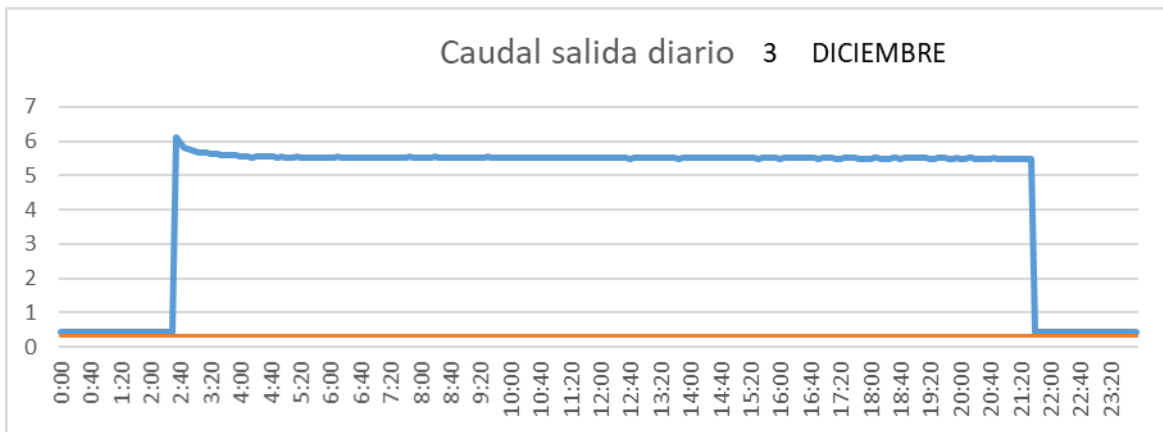
CUENCA



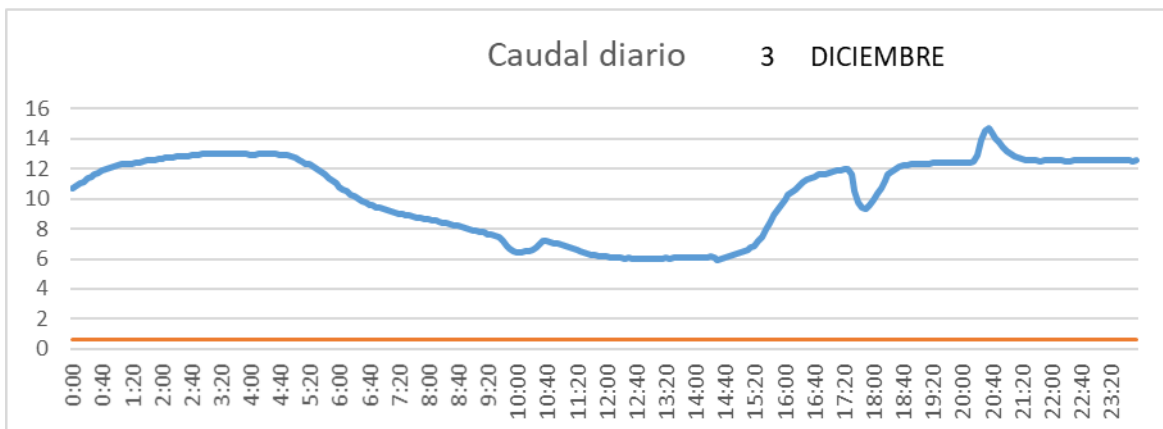
SAN LORENZO PARRILLA



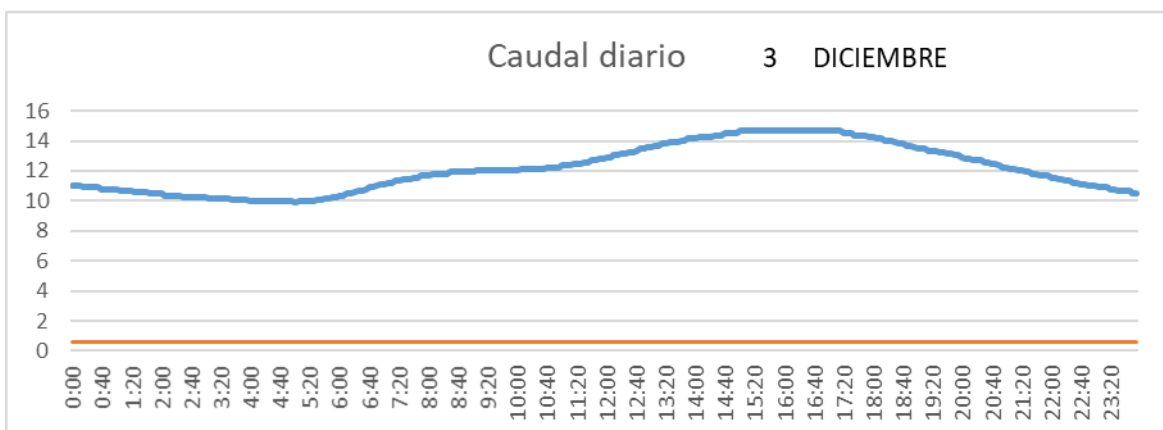
SALIDA TOBA



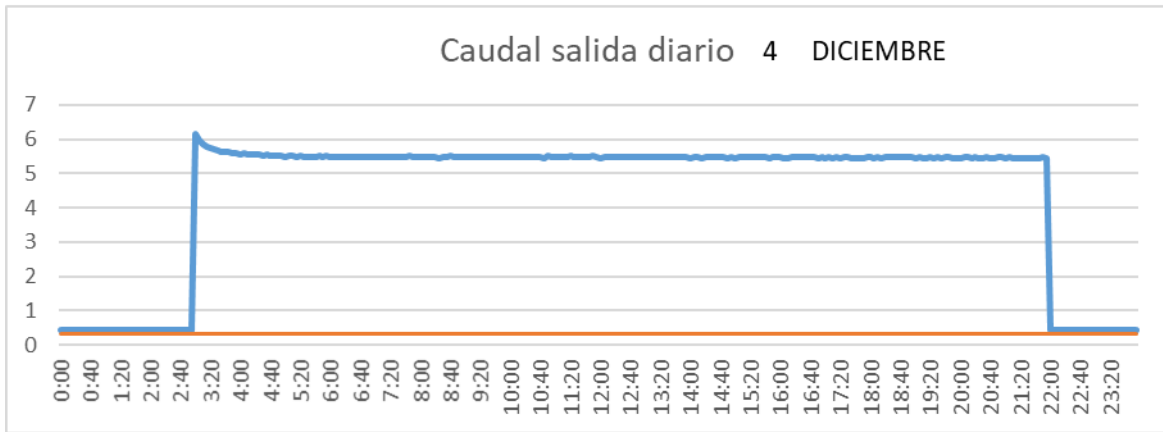
CUENCA



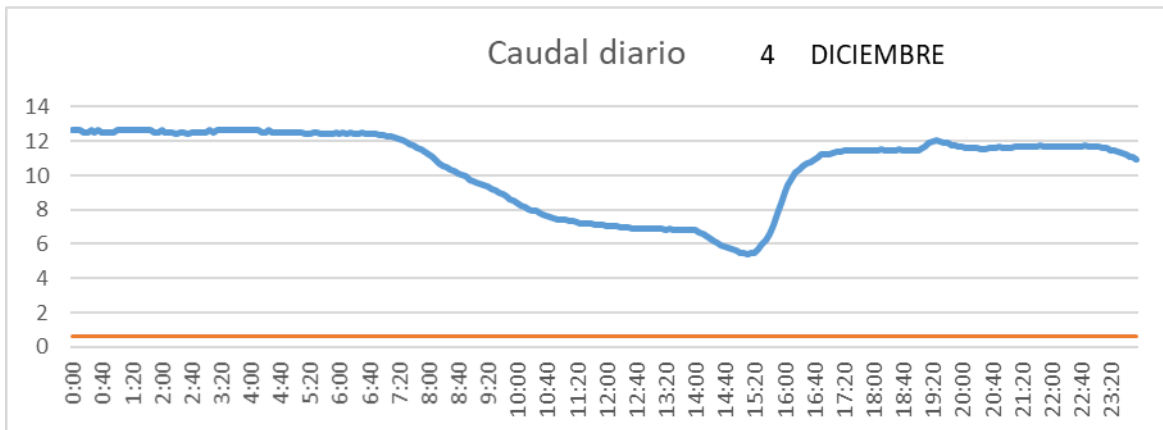
SAN LORENZO PARRILLA



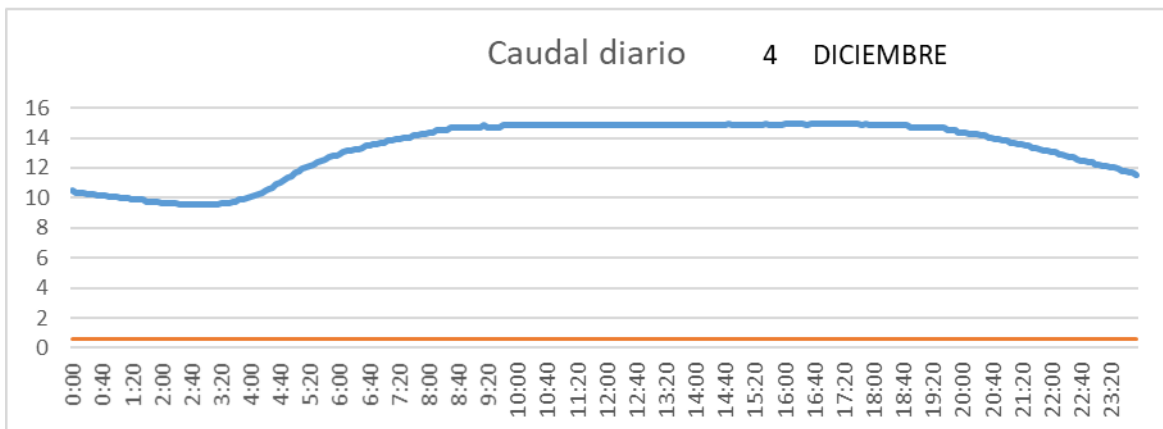
SALIDA TOBA



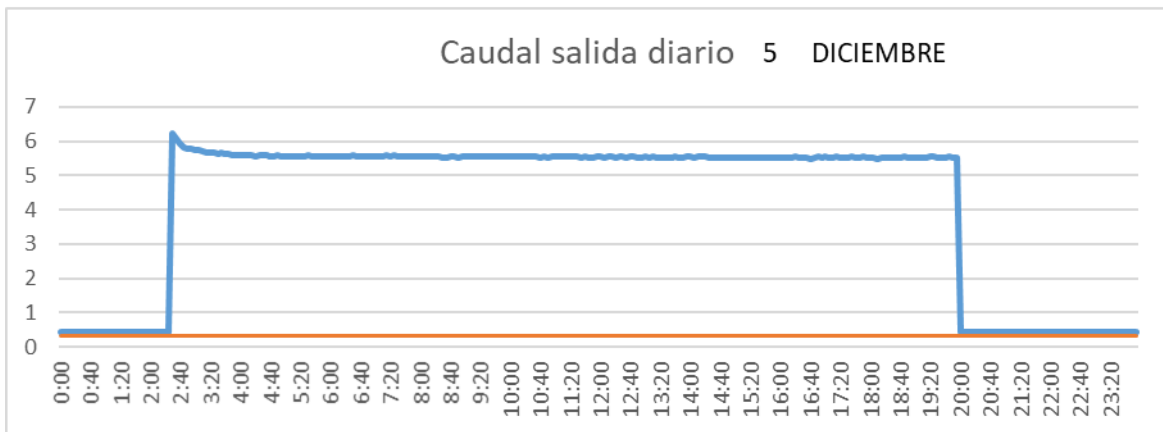
CUENCA



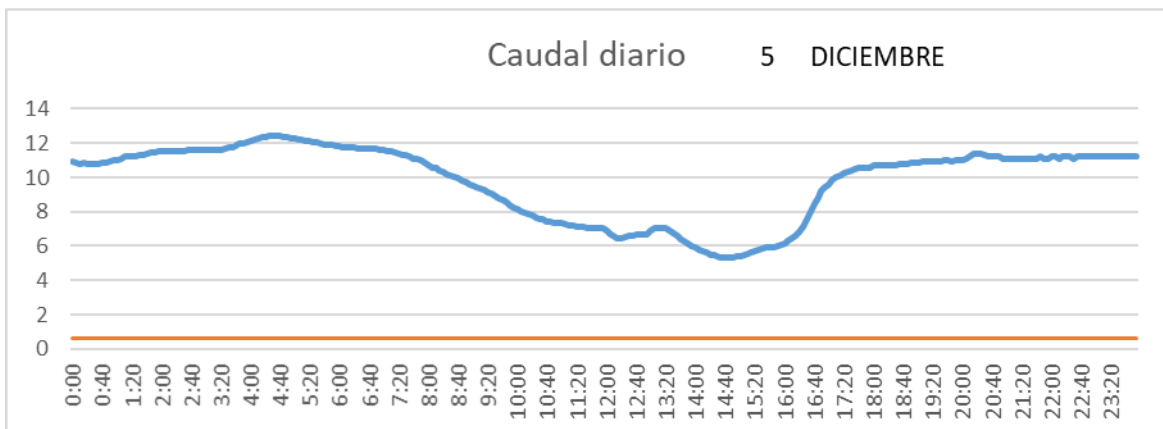
SAN LORENZO PARRILLA



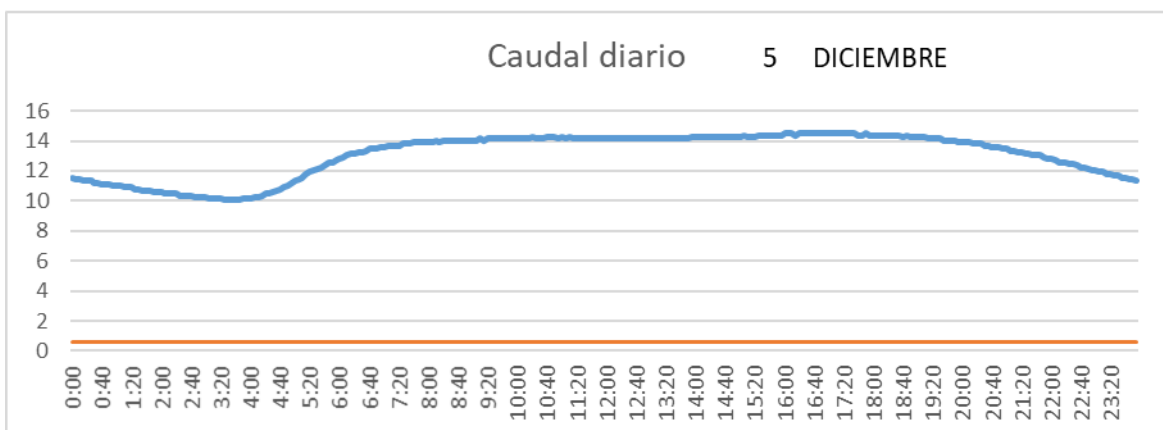
SALIDA TOBA



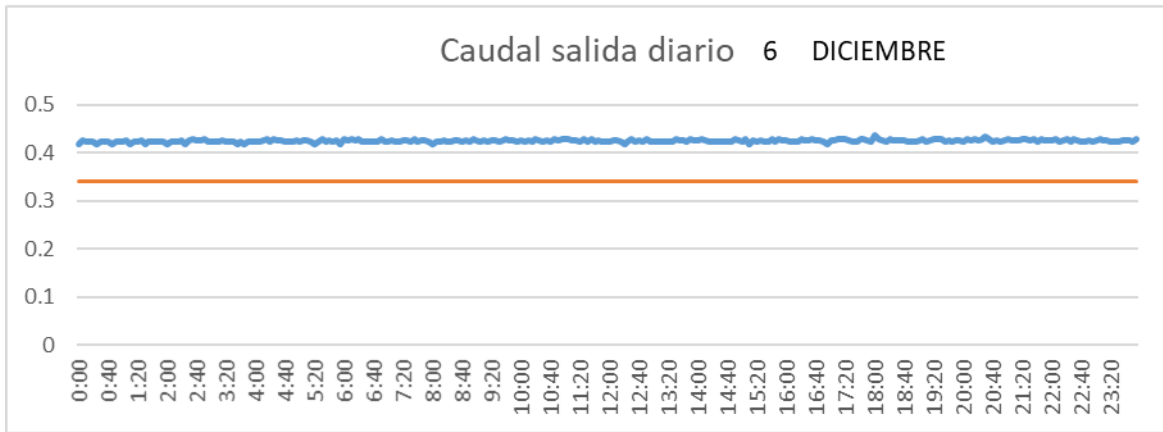
CUENCA



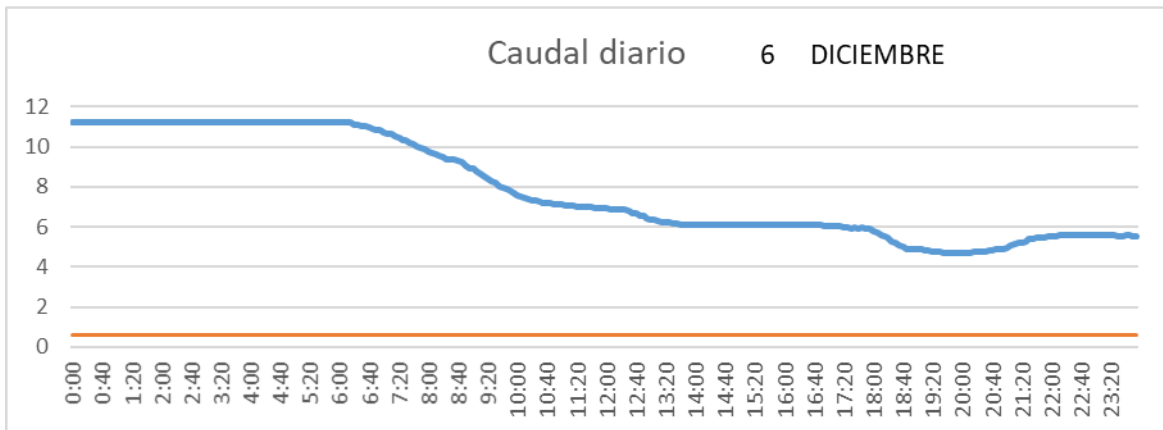
SAN LORENZO PARRILLA



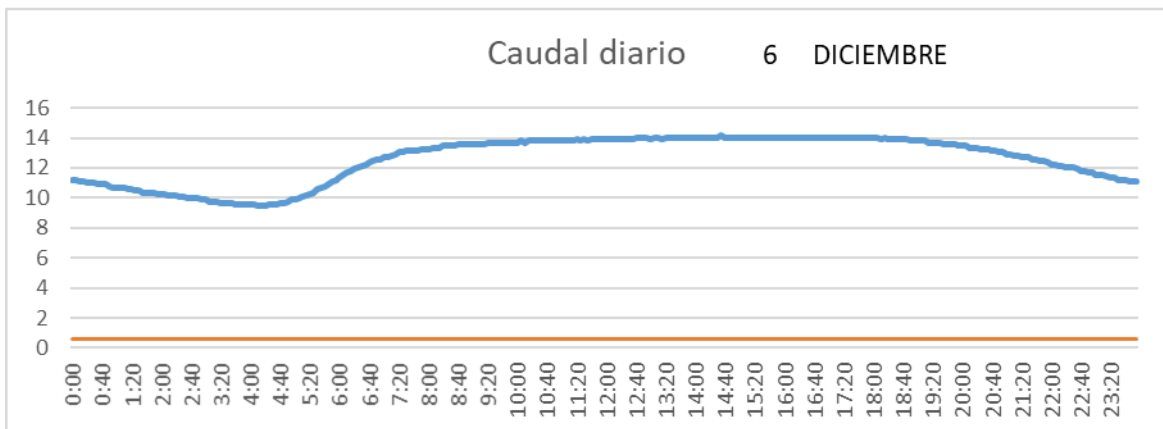
SALIDA TOBA



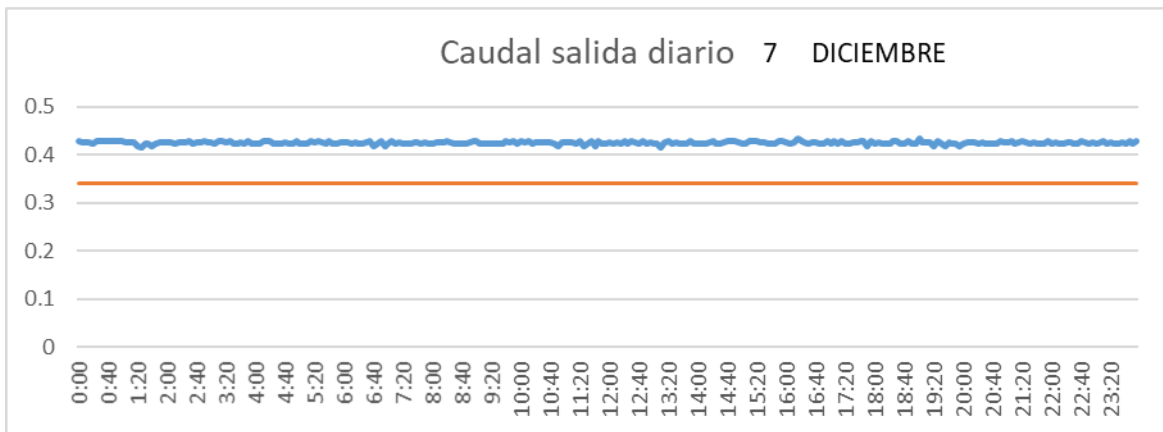
CUENCA



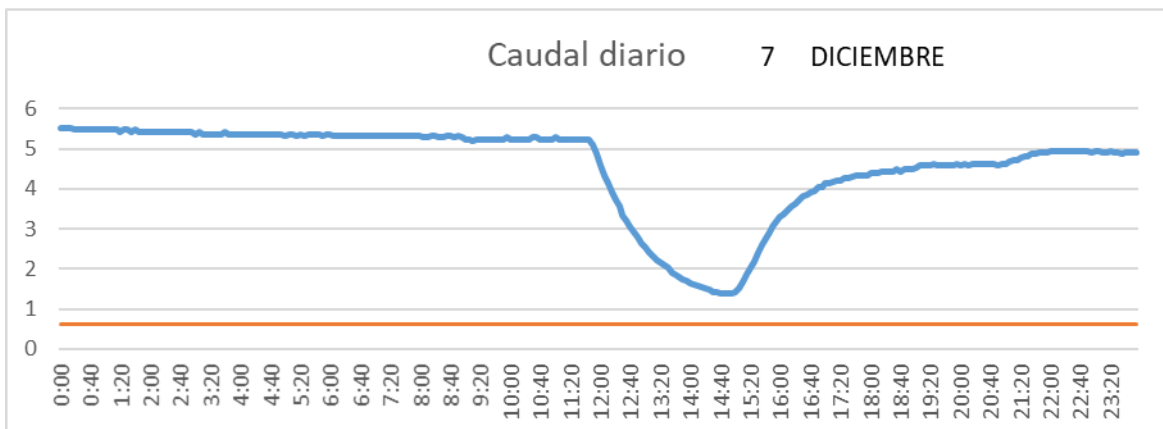
SAN LORENZO PARRILLA



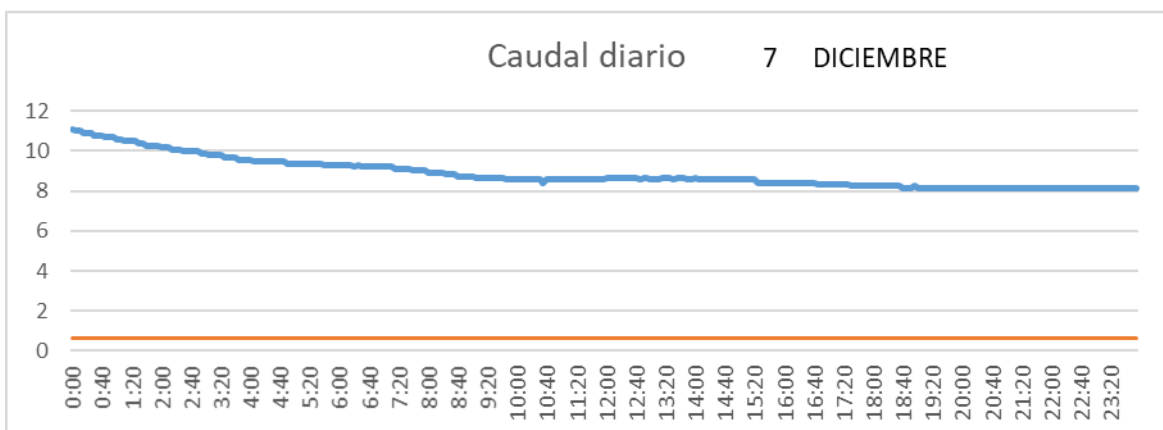
SALIDA TOBA



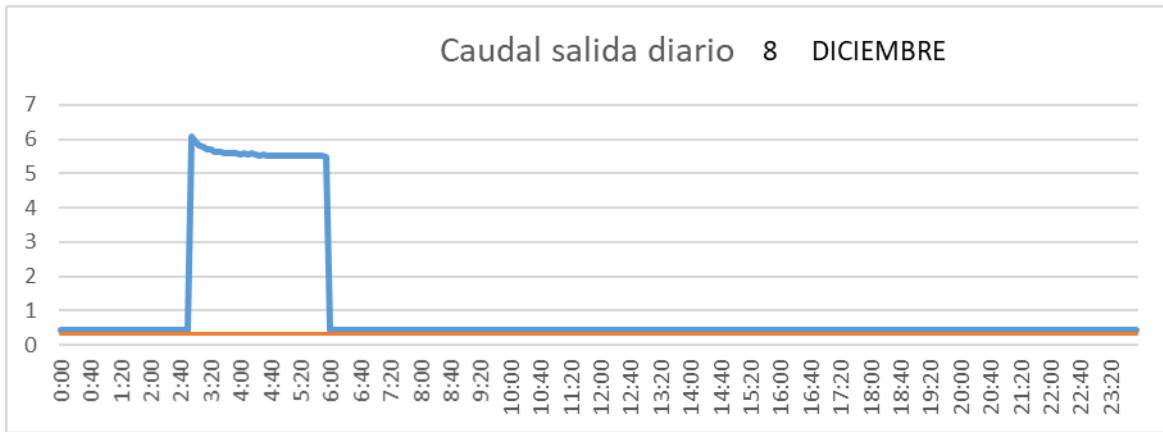
CUENCA



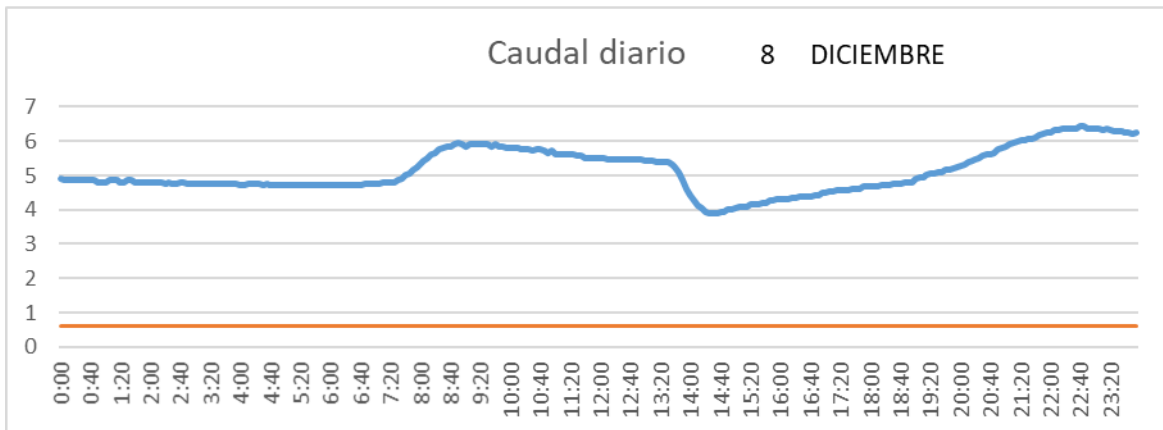
SAN LORENZO PARRILLA



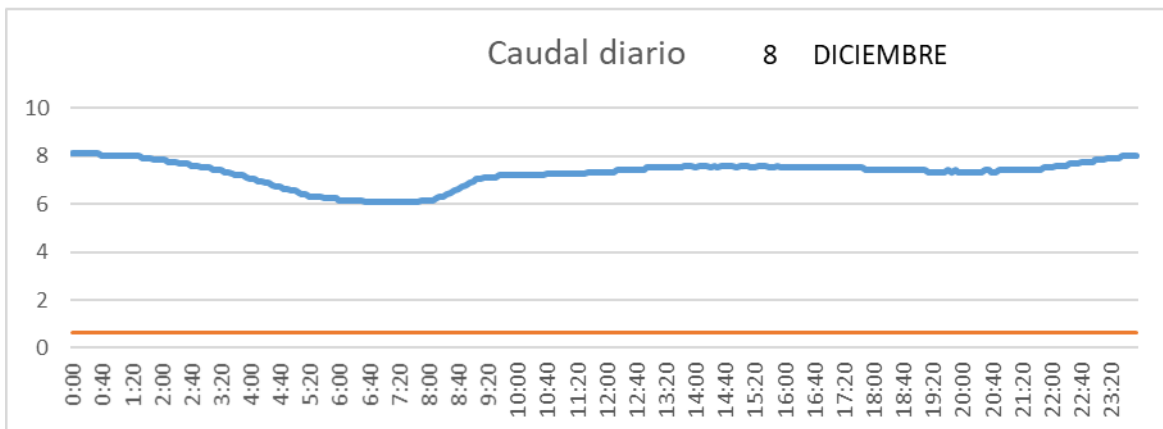
SALIDA TOBA



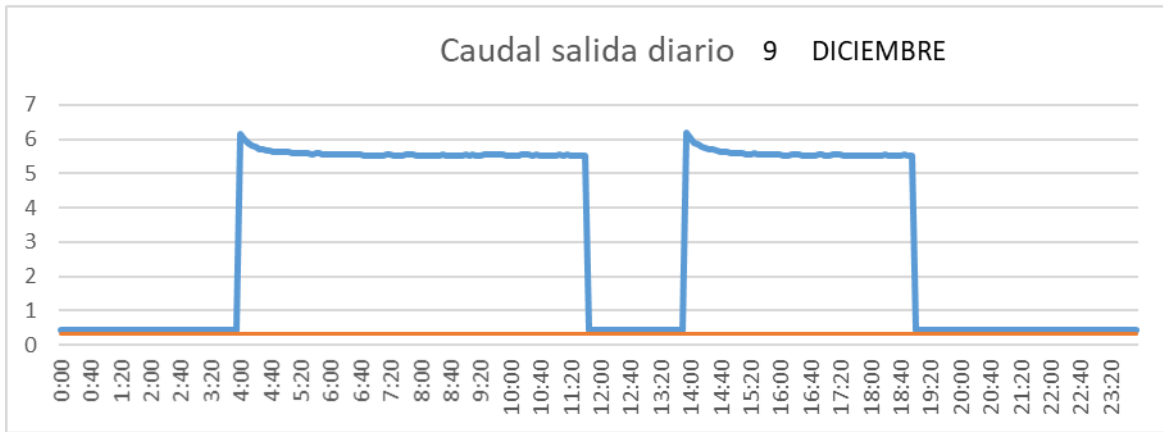
CUENCA



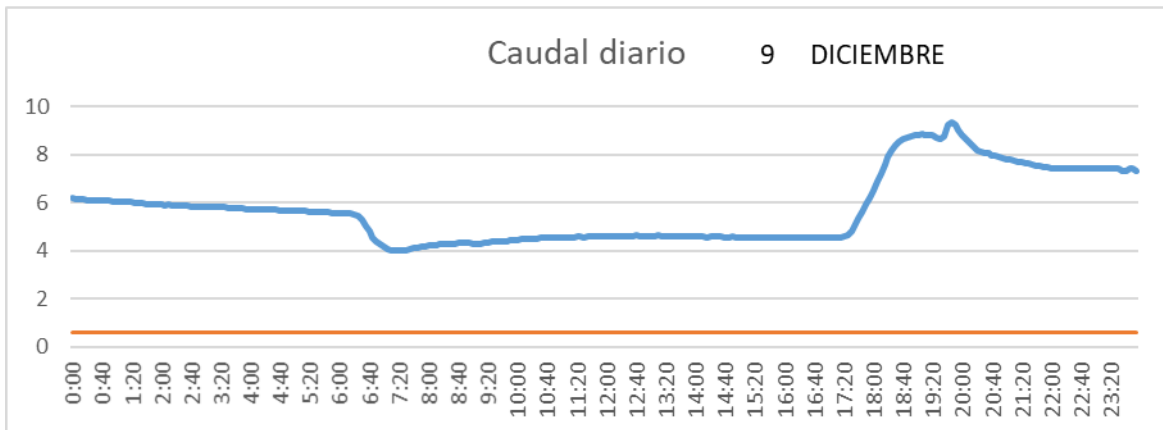
SAN LORENZO PARRILLA



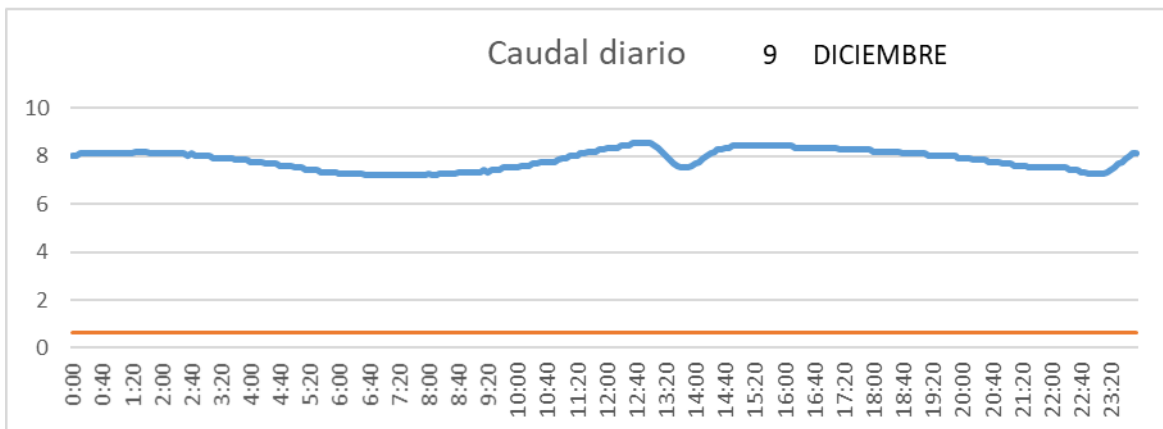
SALIDA TOBA



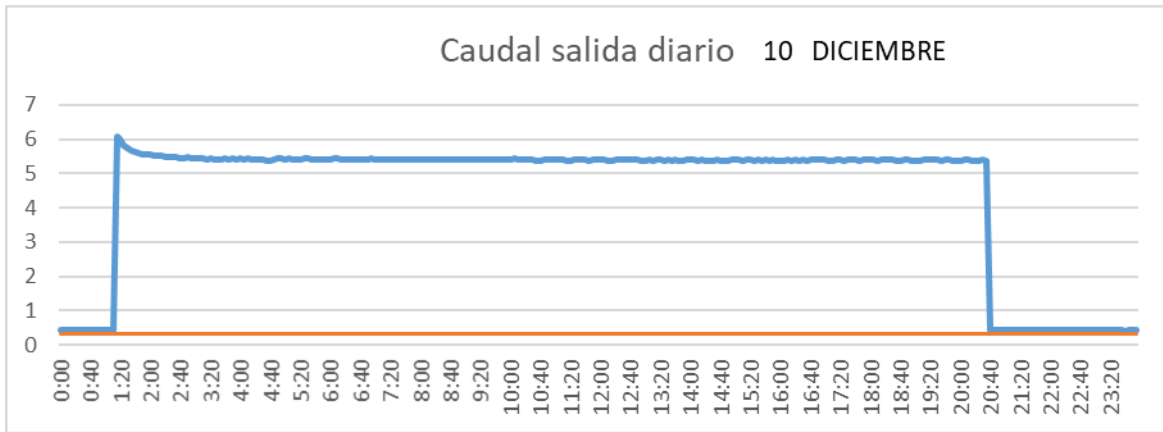
CUENCA



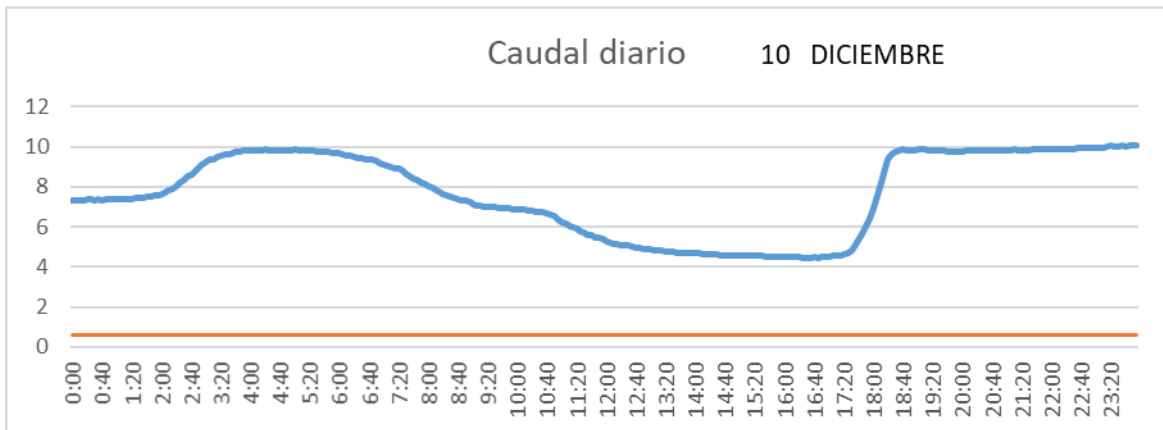
SAN LORENZO PARRILLA



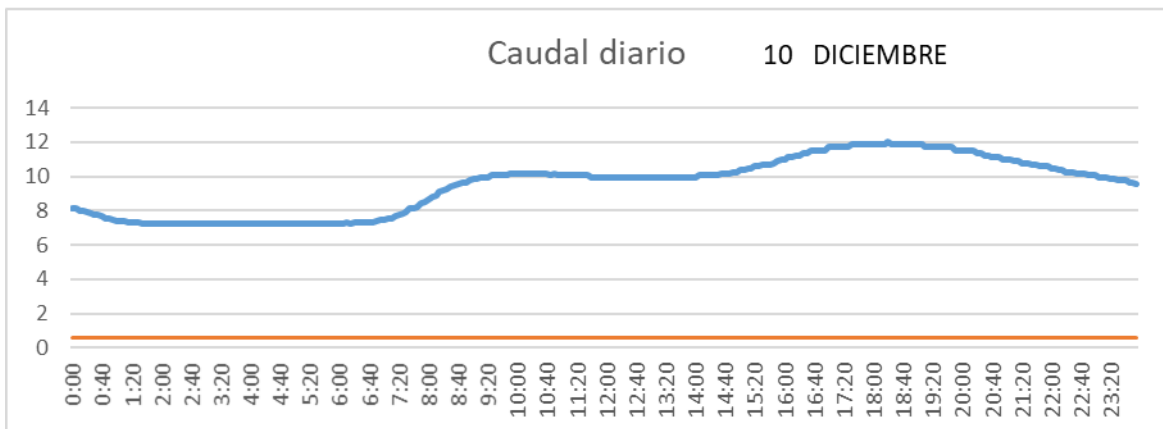
SALIDA TOBA



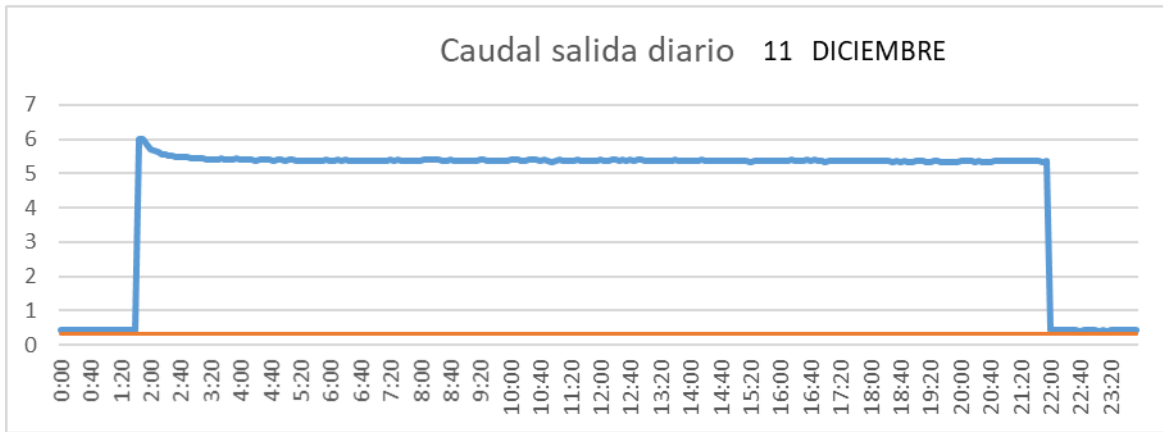
CUENCA



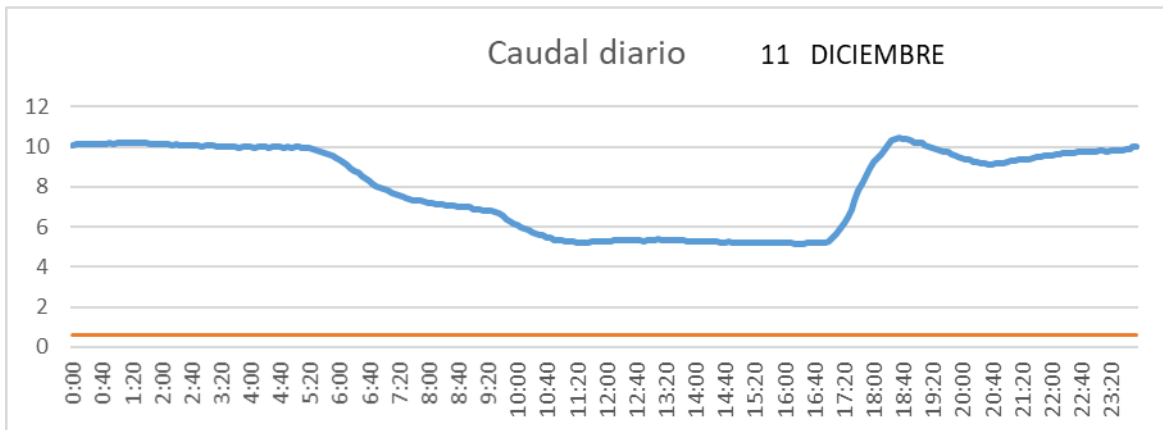
SAN LORENZO PARRILLA



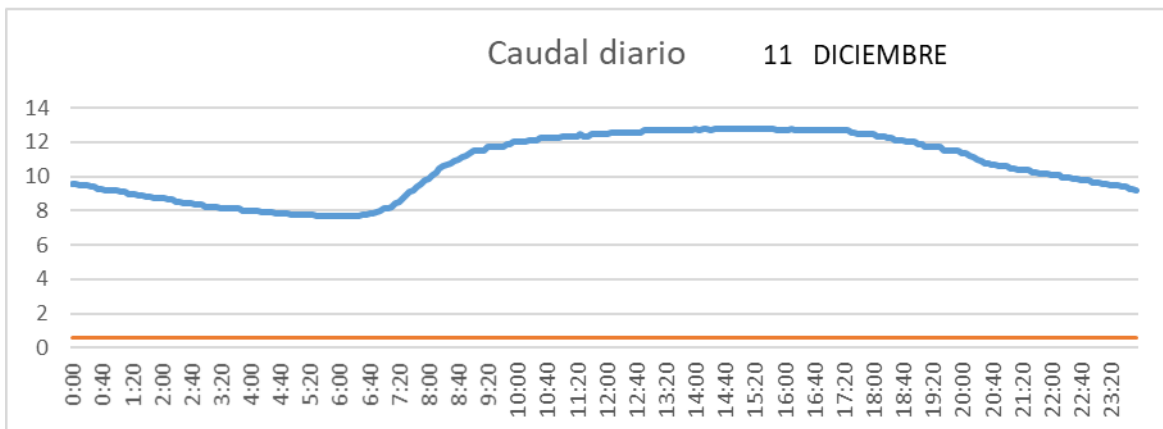
SALIDA TOBA



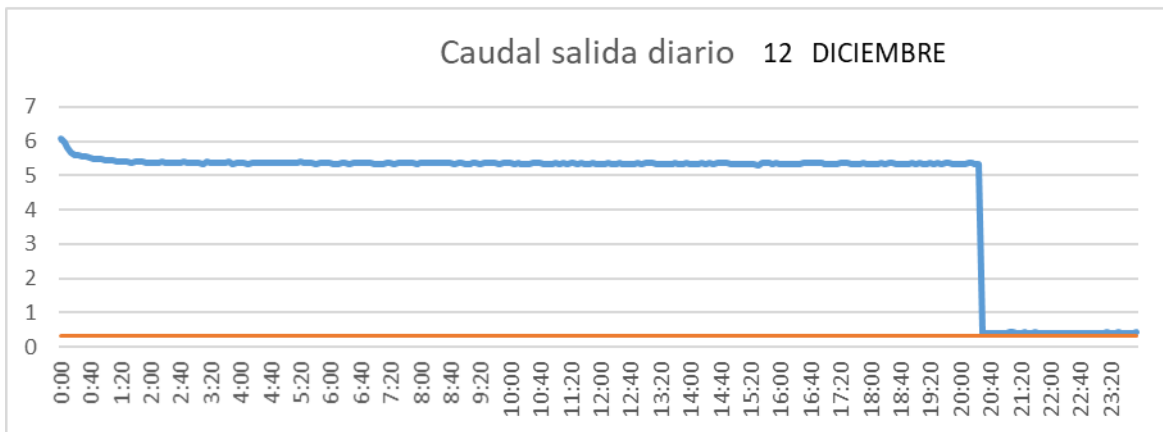
CUENCA



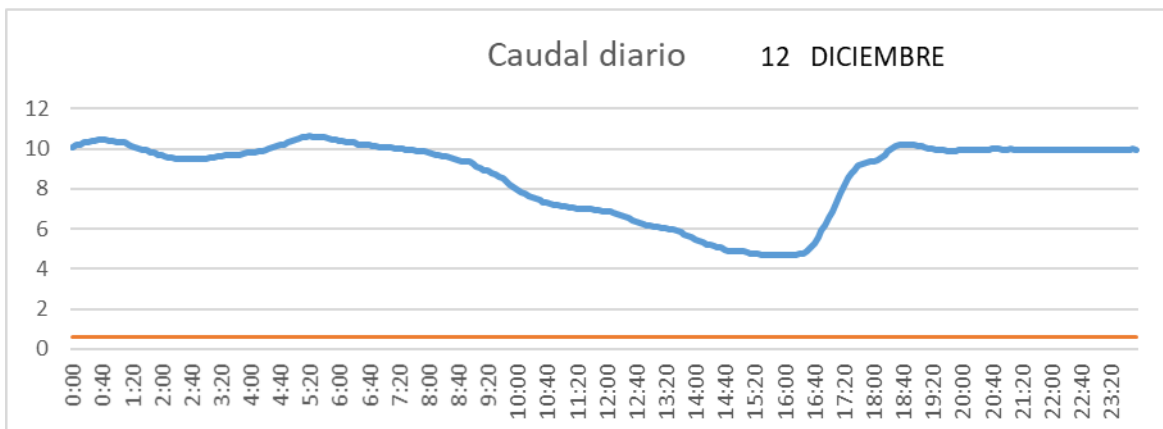
SAN LORENZO PARRILLA



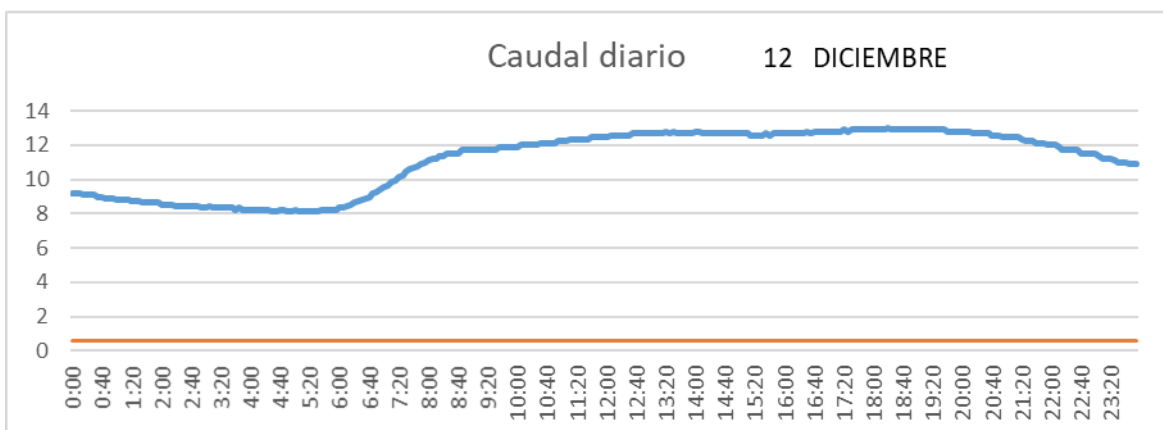
SALIDA TOBA



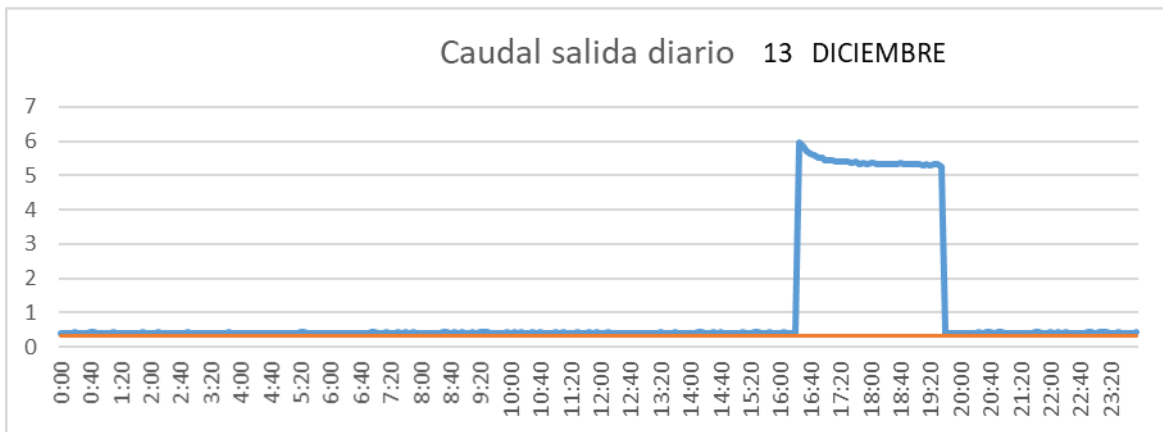
CUENCA



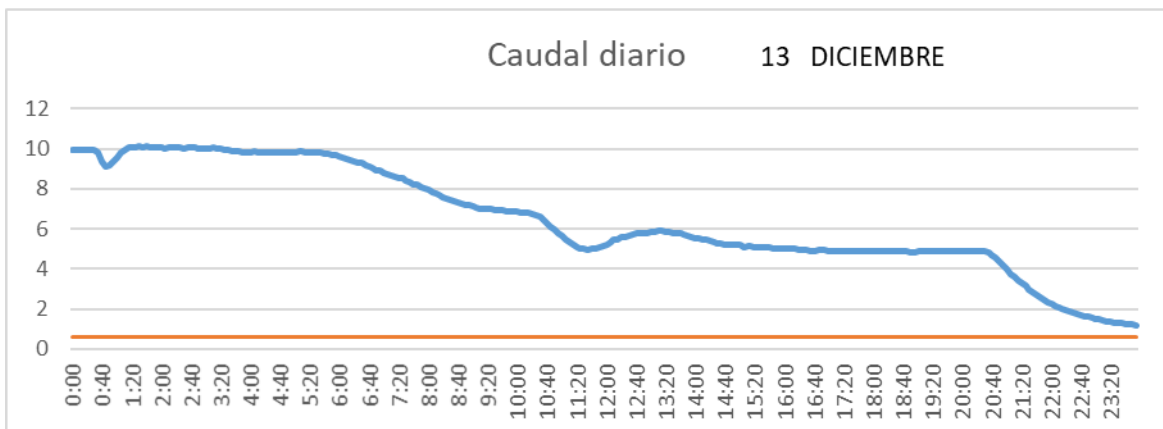
SAN LORENZO PARRILLA



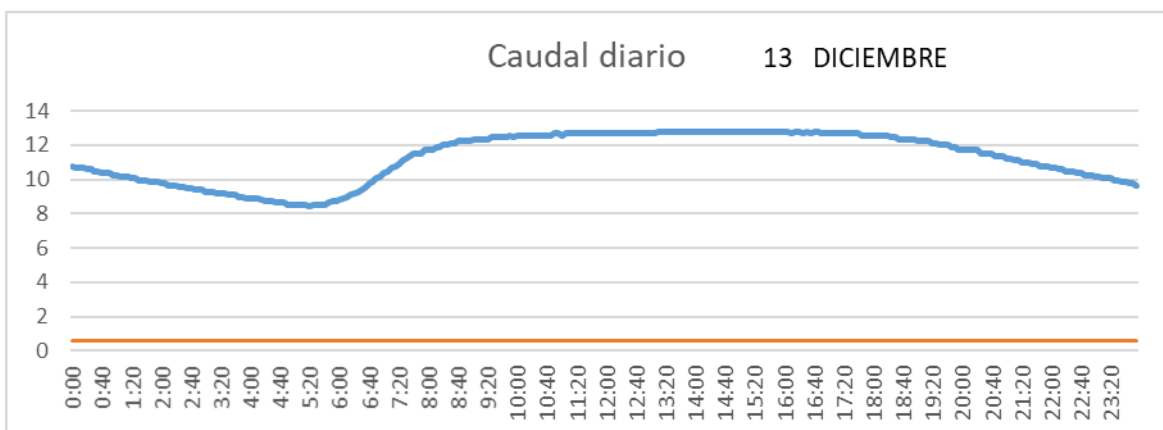
SALIDA TOBA



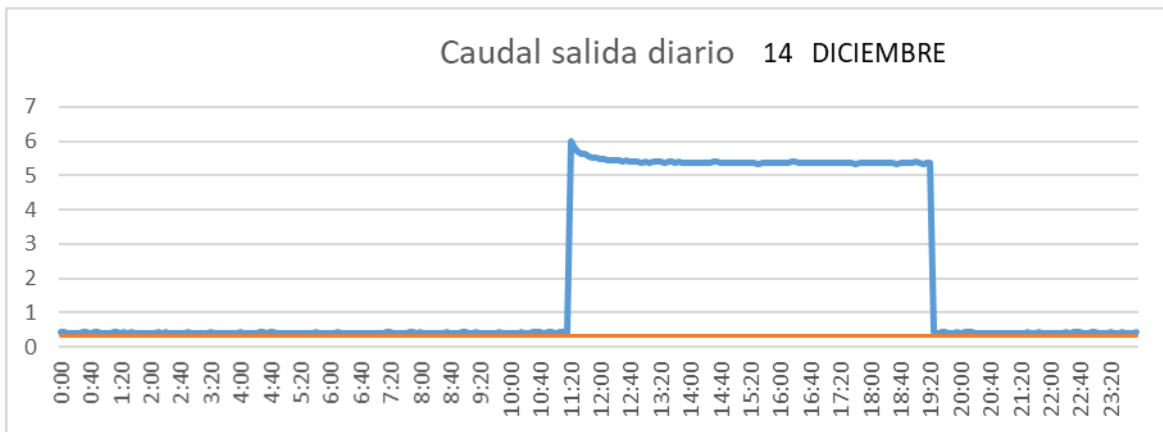
CUENCA



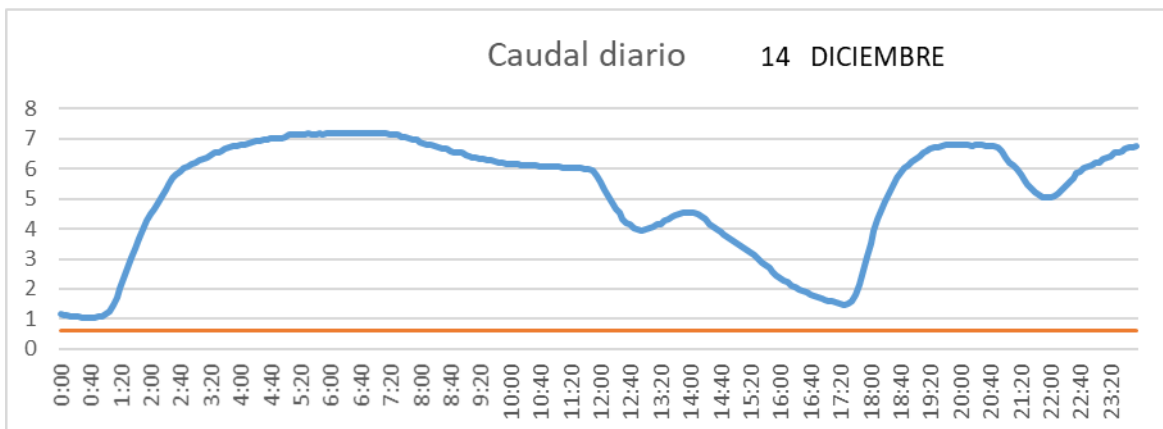
SAN LORENZO PARRILLA



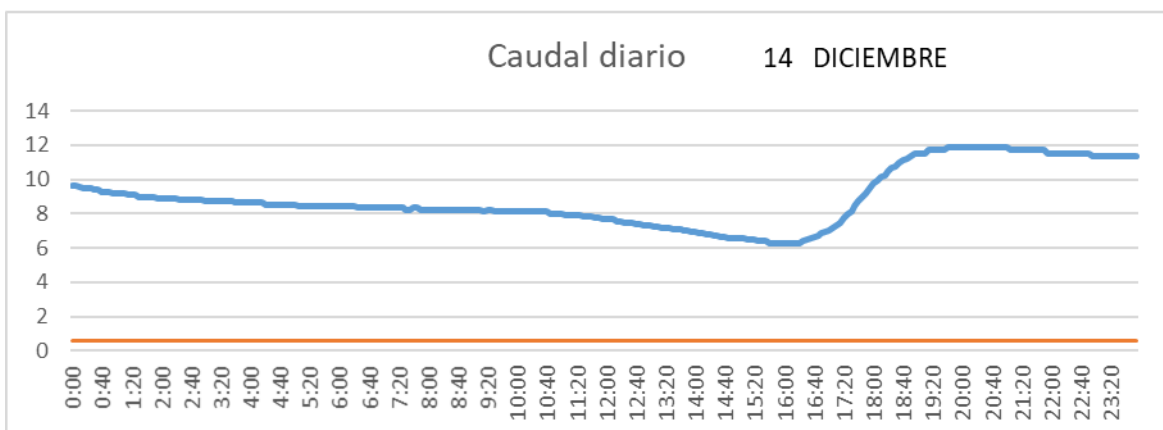
SALIDA TOBA



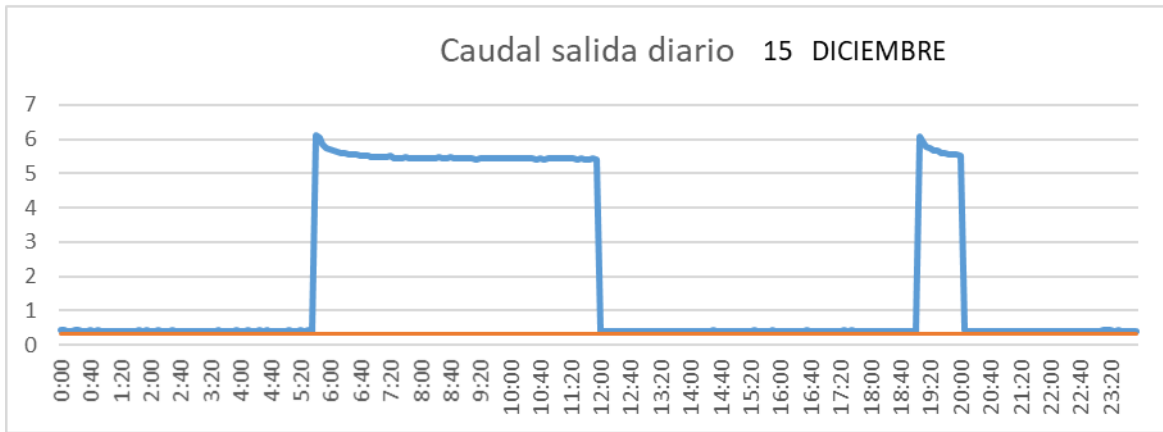
CUENCA



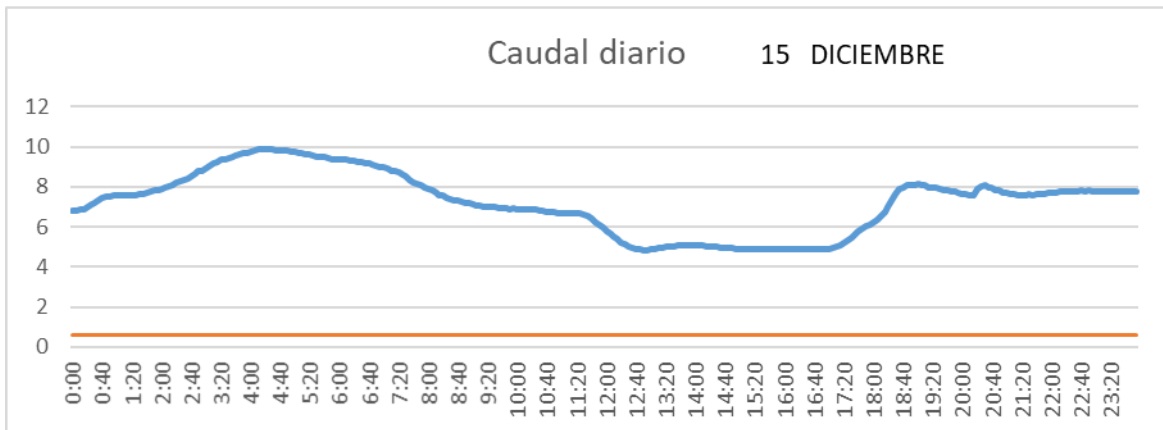
SAN LORENZO PARRILLA



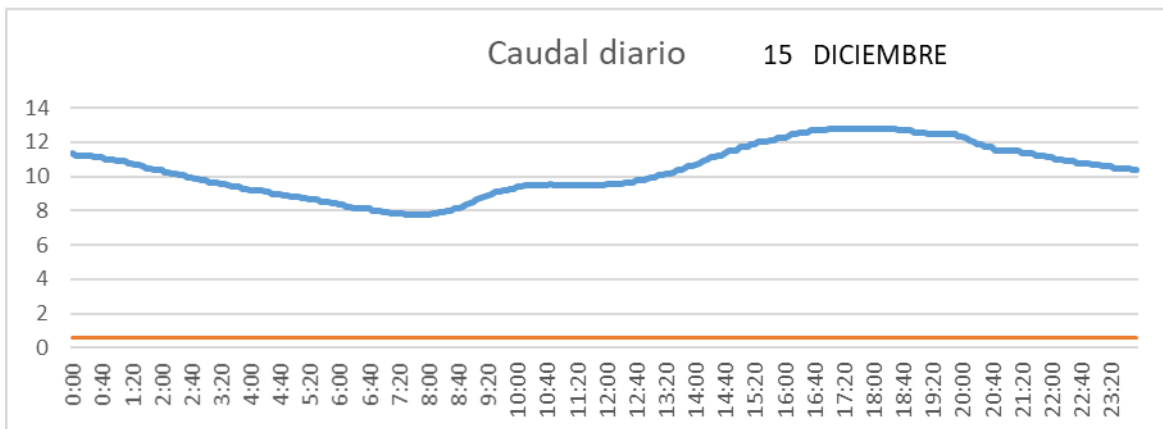
SALIDA TOBA



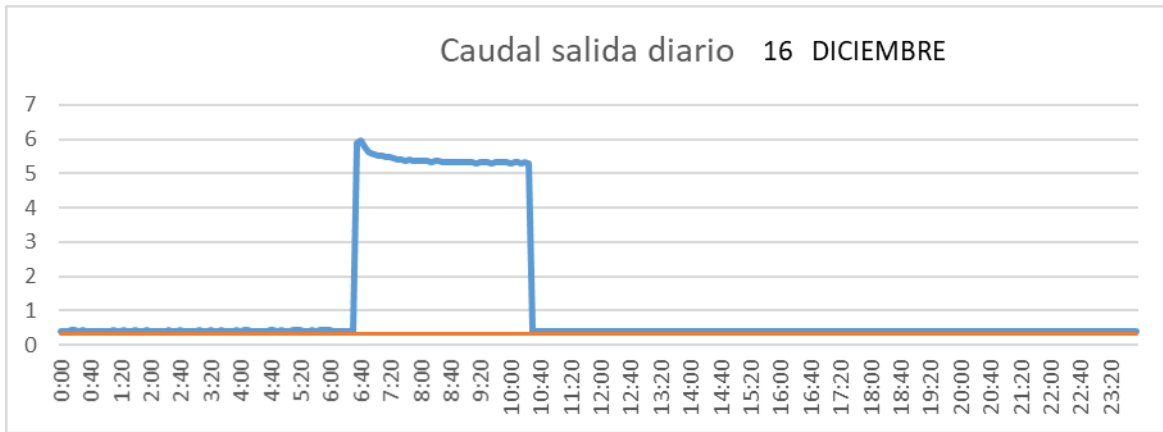
CUENCA



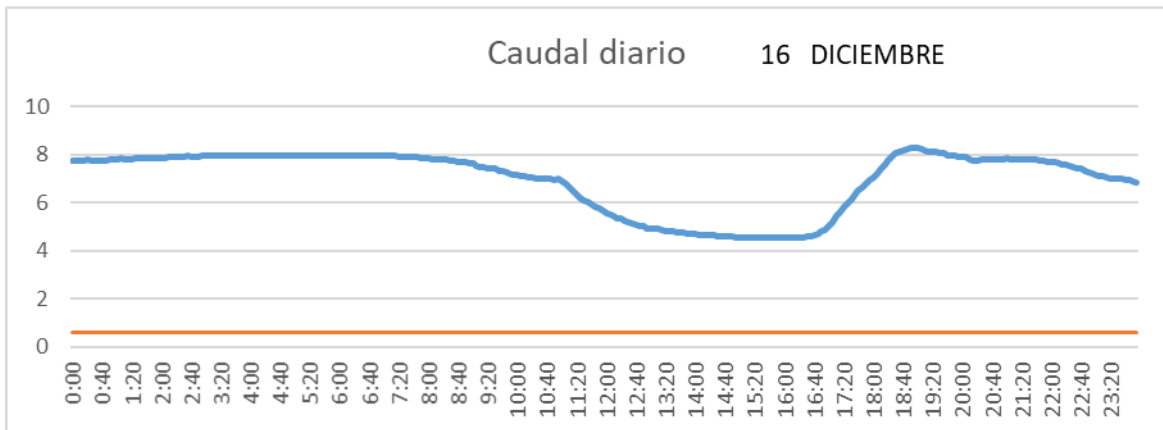
SAN LORENZO PARRILLA



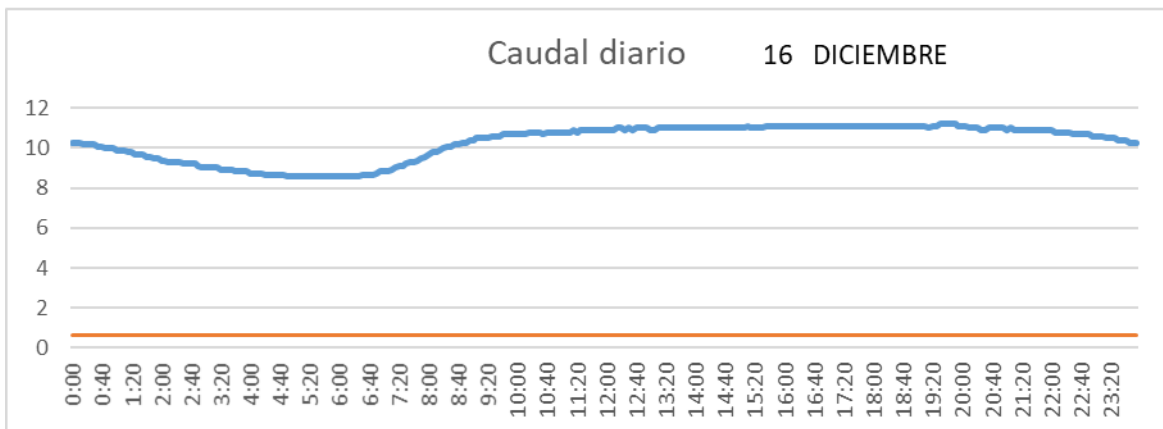
SALIDA TOBA



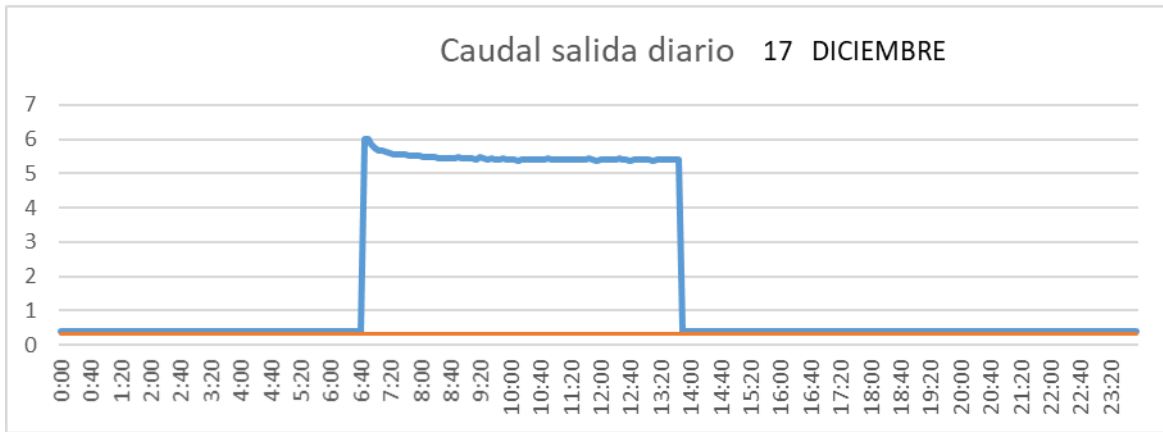
CUENCA



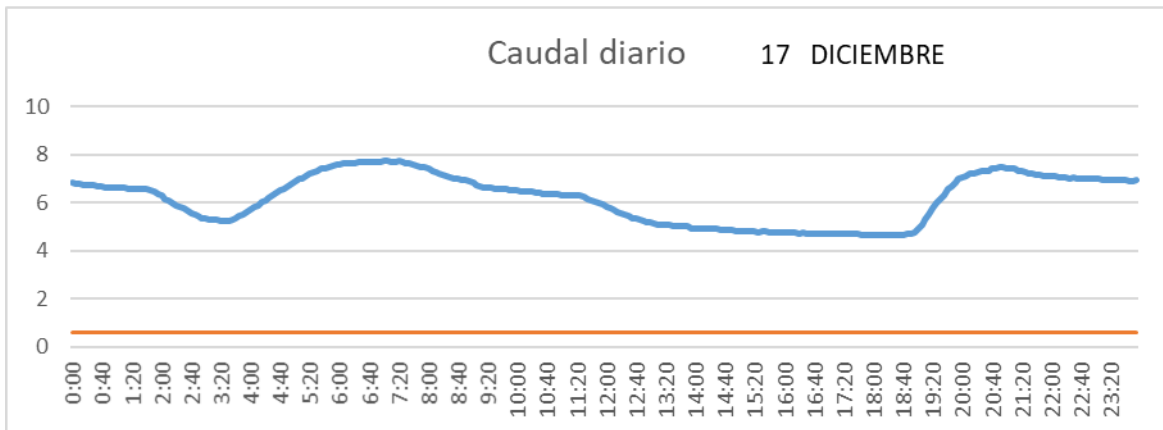
SAN LORENZO PARRILLA



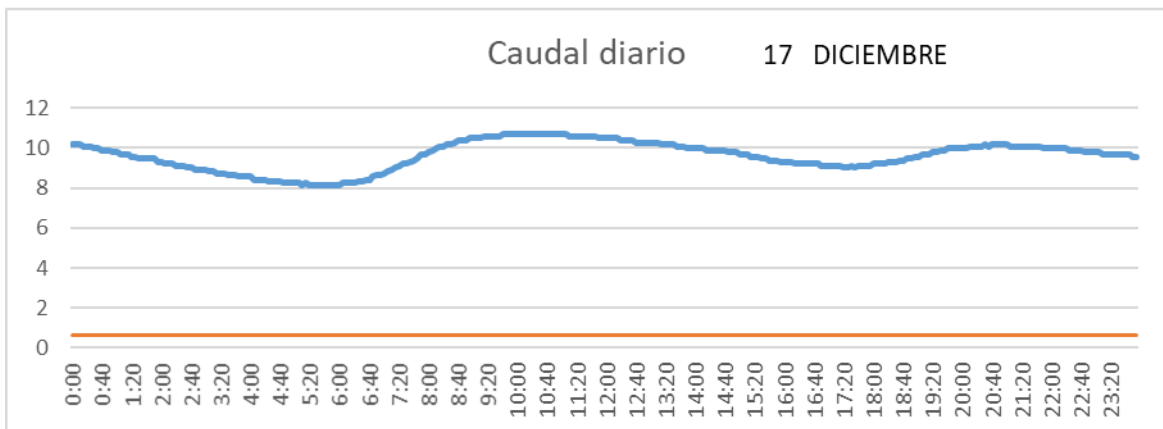
SALIDA TOBA



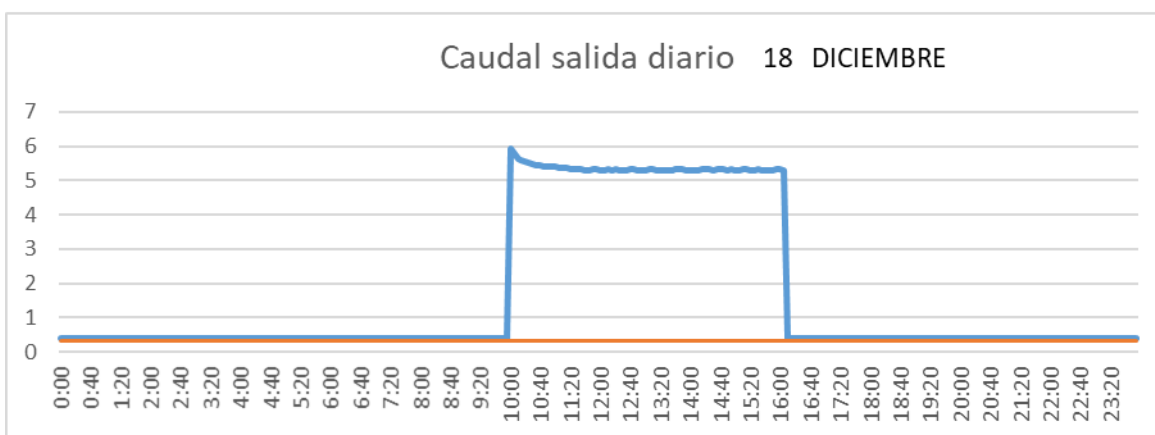
CUENCA



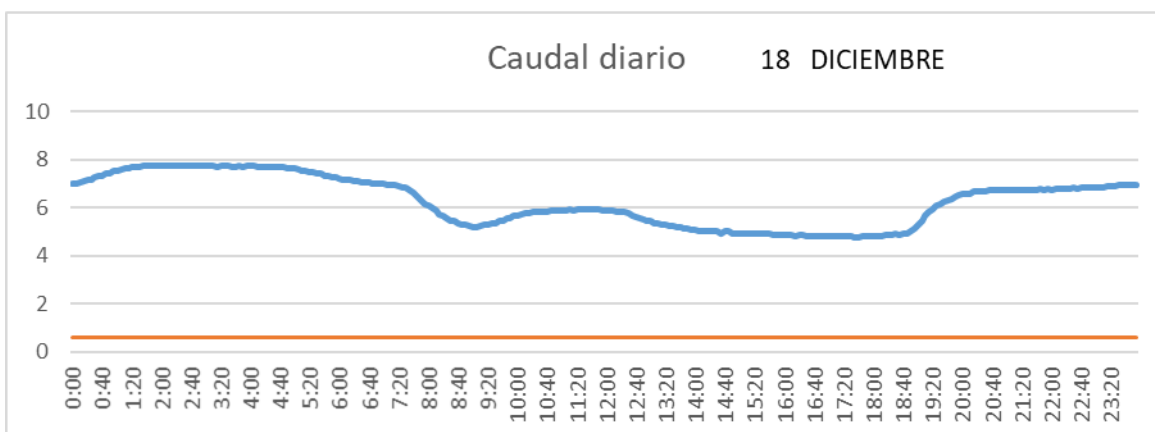
SAN LORENZO PARRILLA



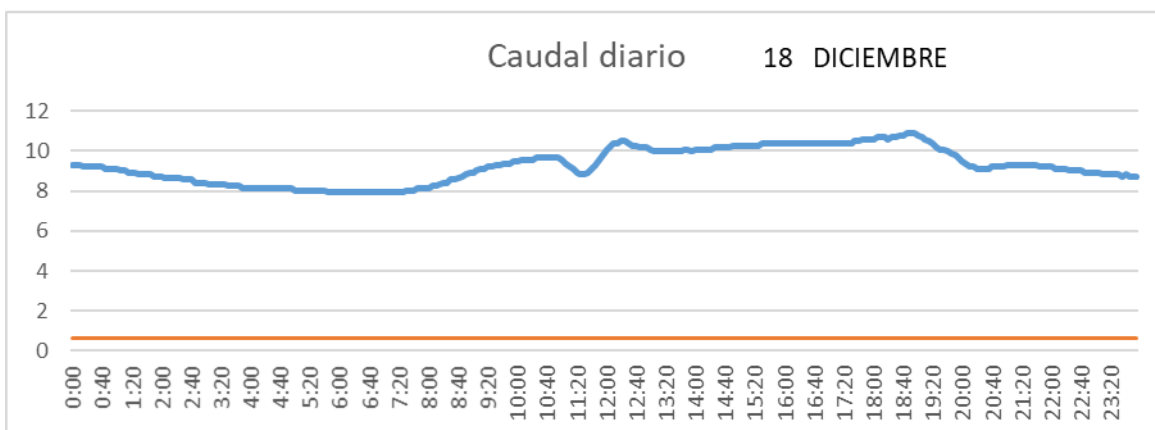
SALIDA TOBA



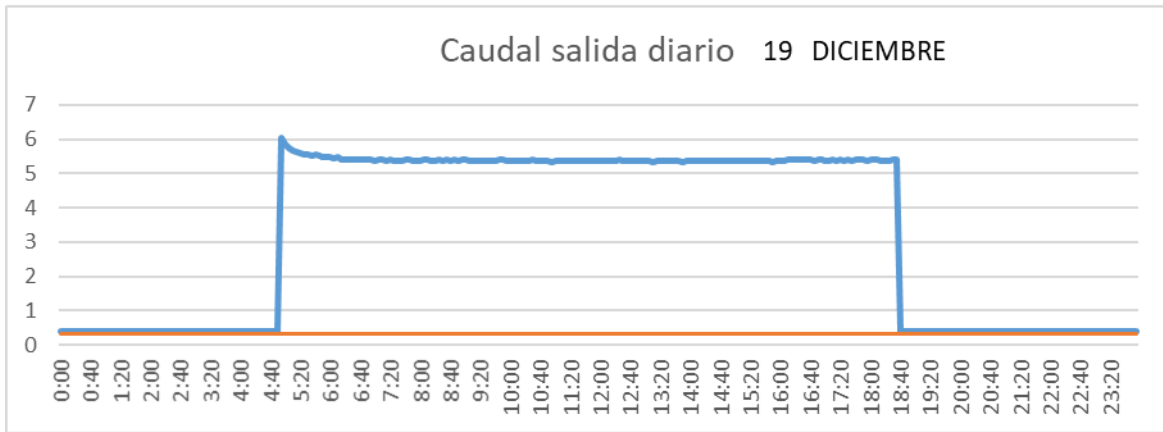
CUENCA



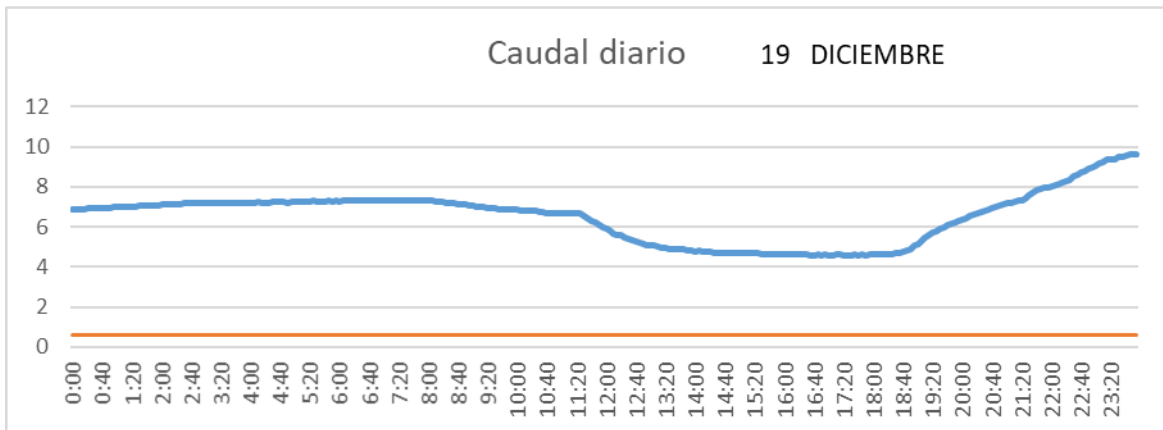
SAN LORENZO PARRILLA



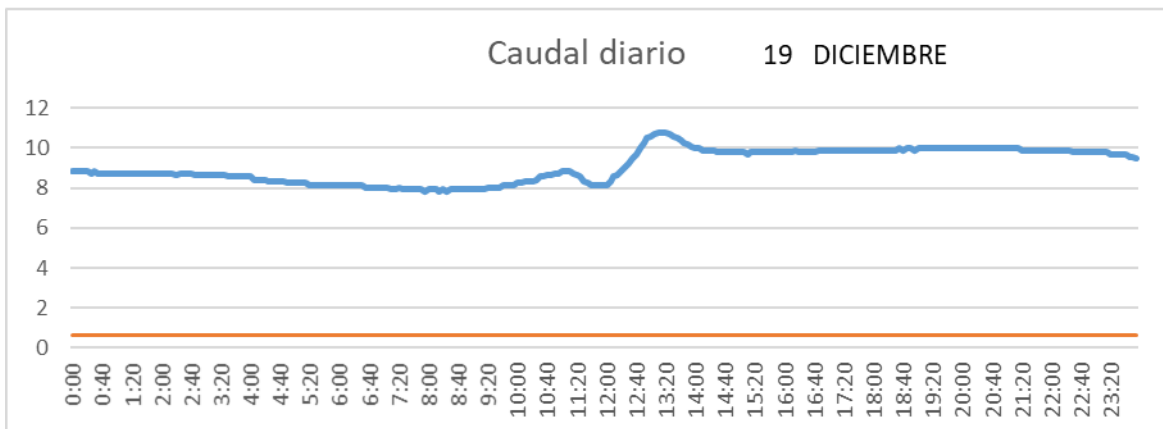
SALIDA TOBA



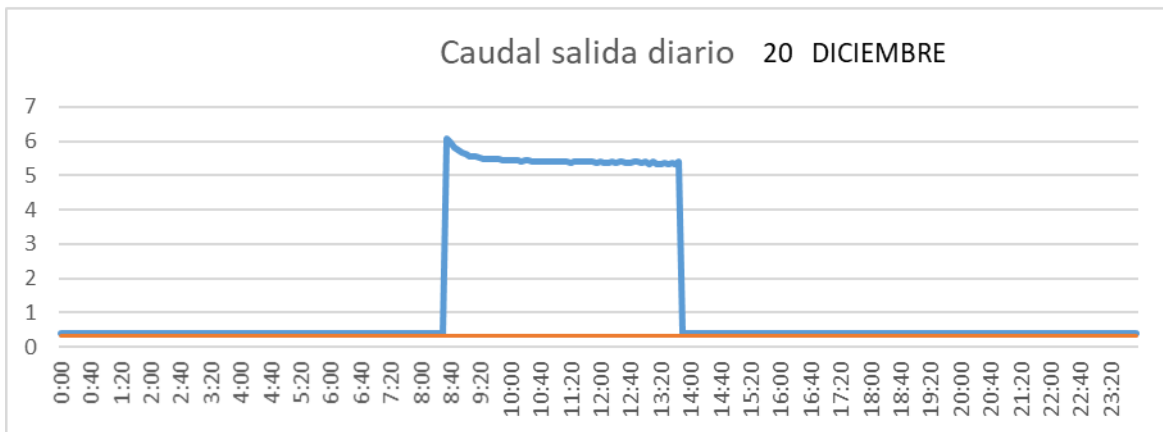
CUENCA



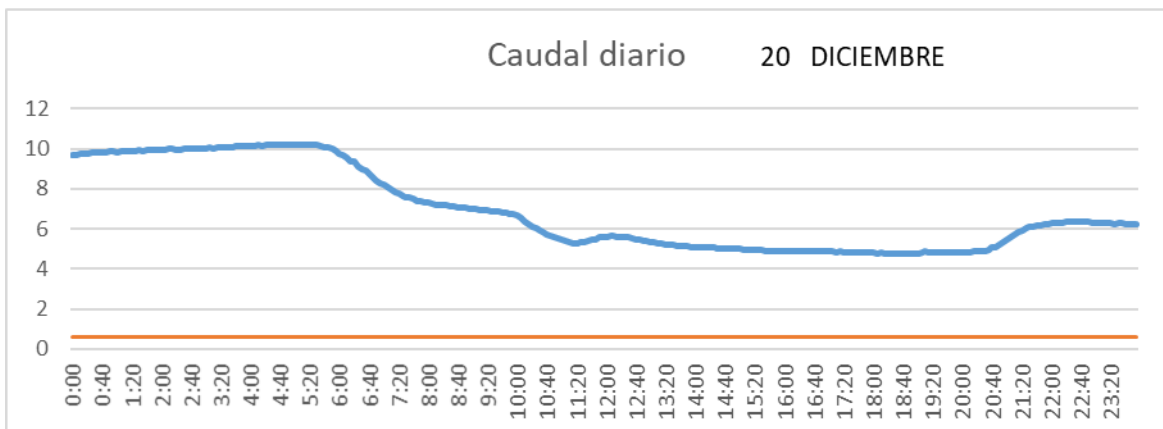
SAN LORENZO PARRILLA



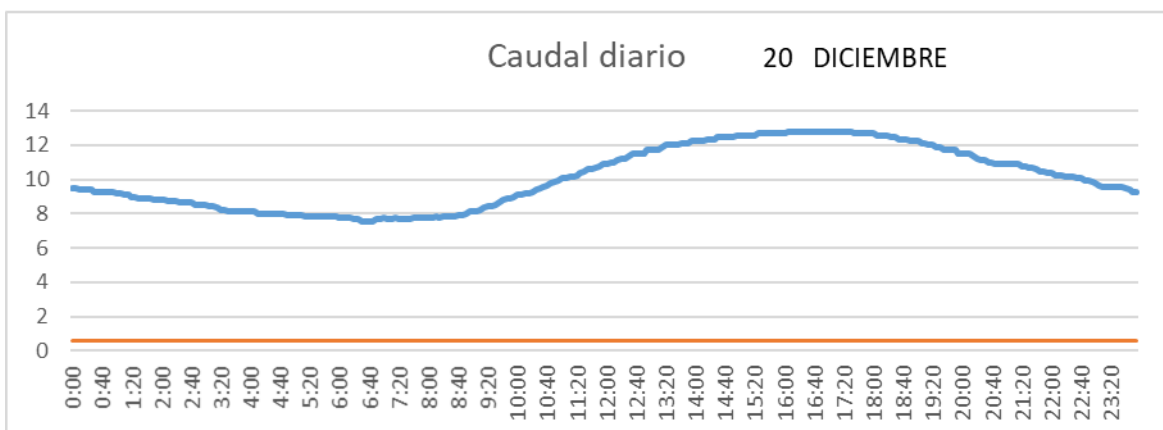
SALIDA TOBA



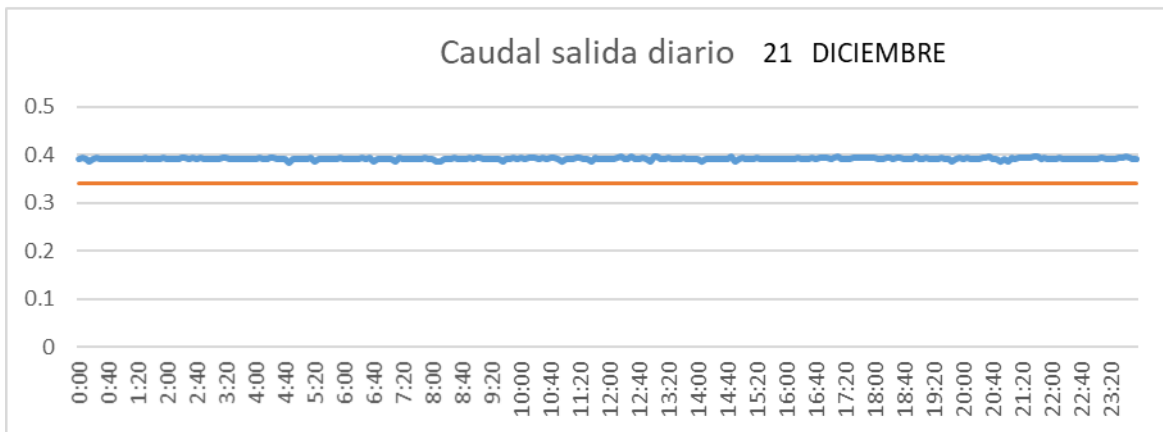
CUENCA



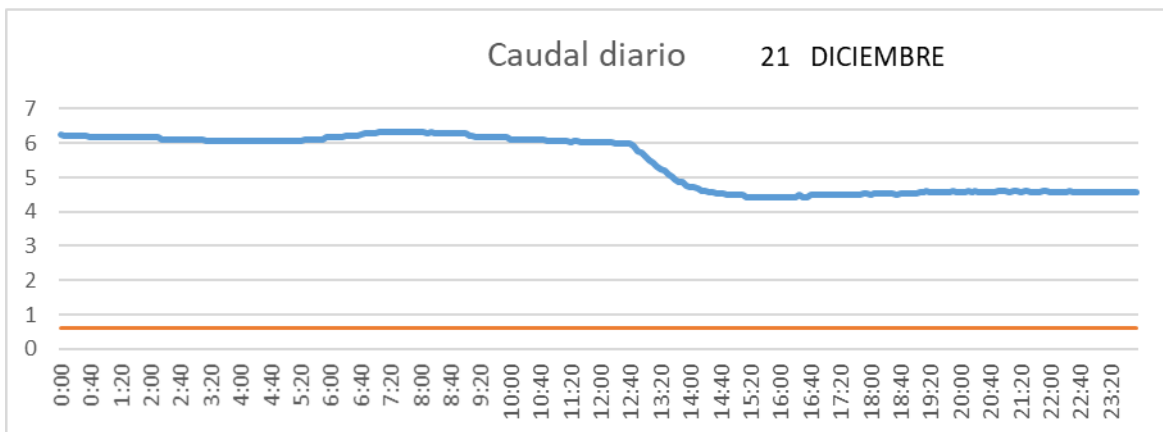
SAN LORENZO PARRILLA



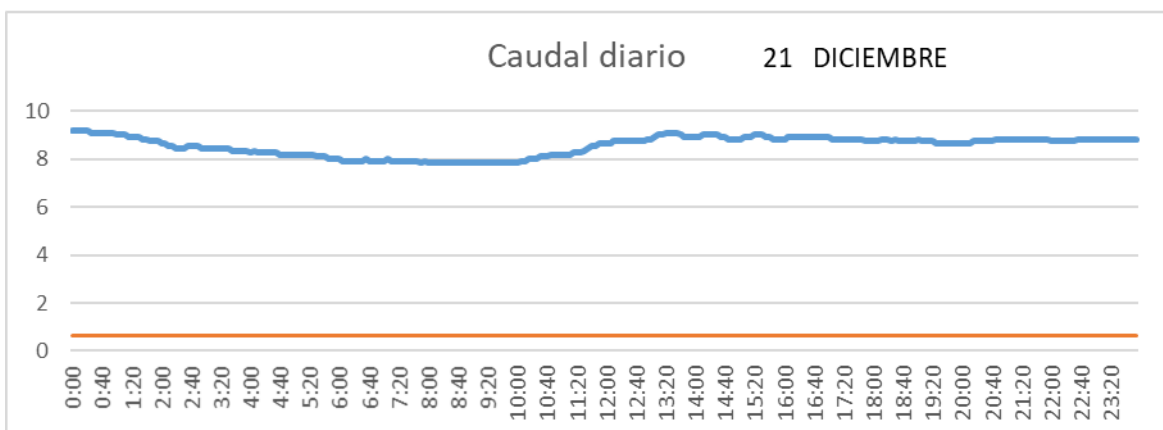
SALIDA TOBA



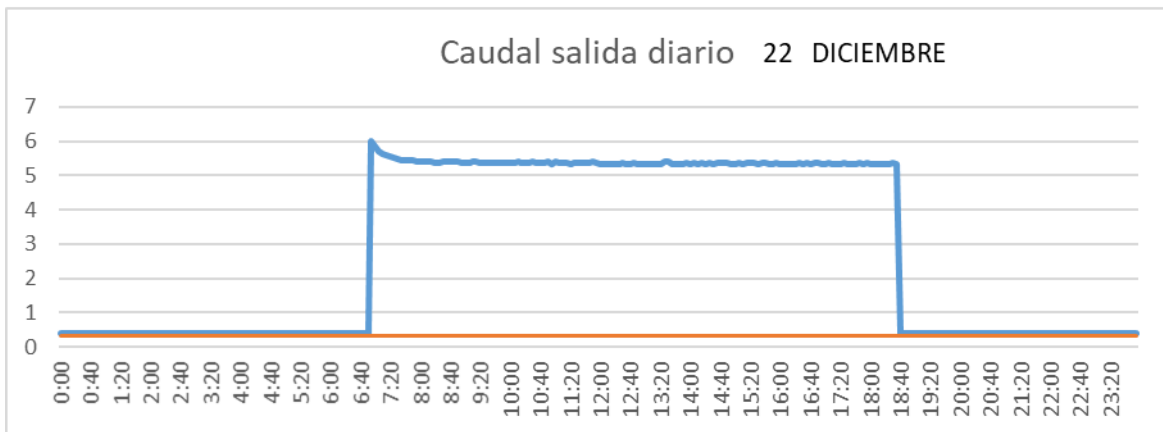
CUENCA



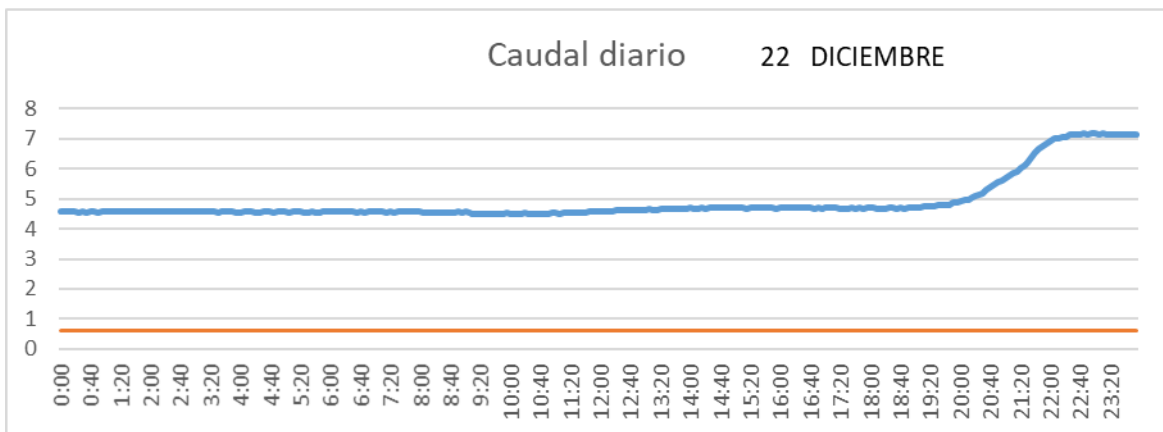
SAN LORENZO PARRILLA



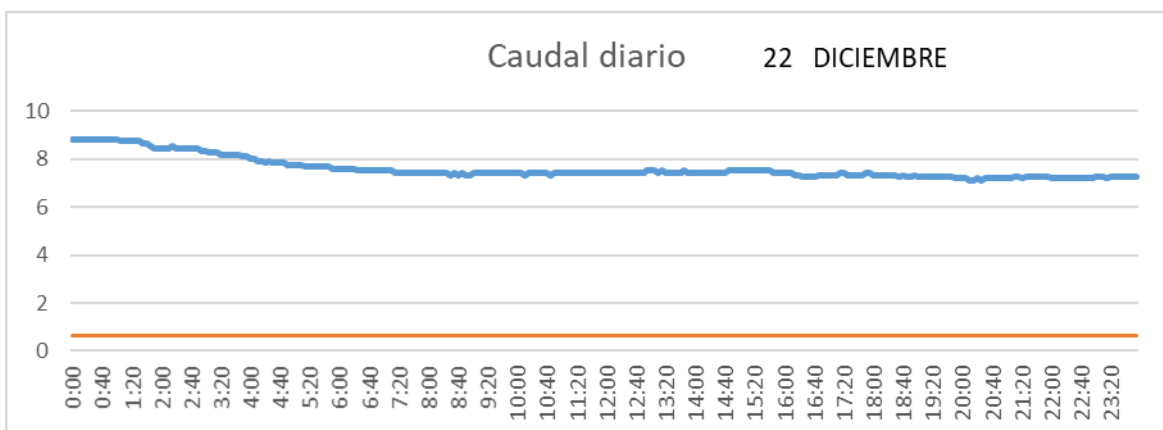
SALIDA TOBA



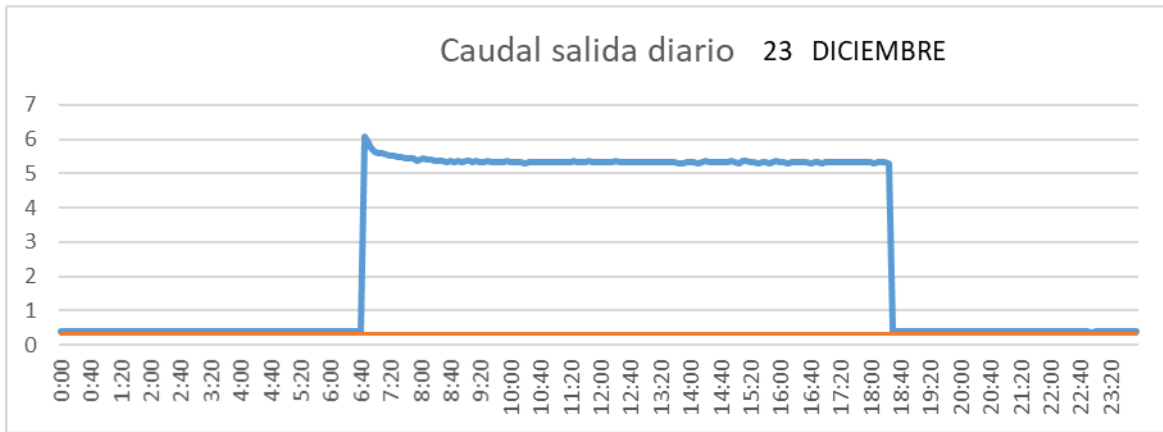
CUENCA



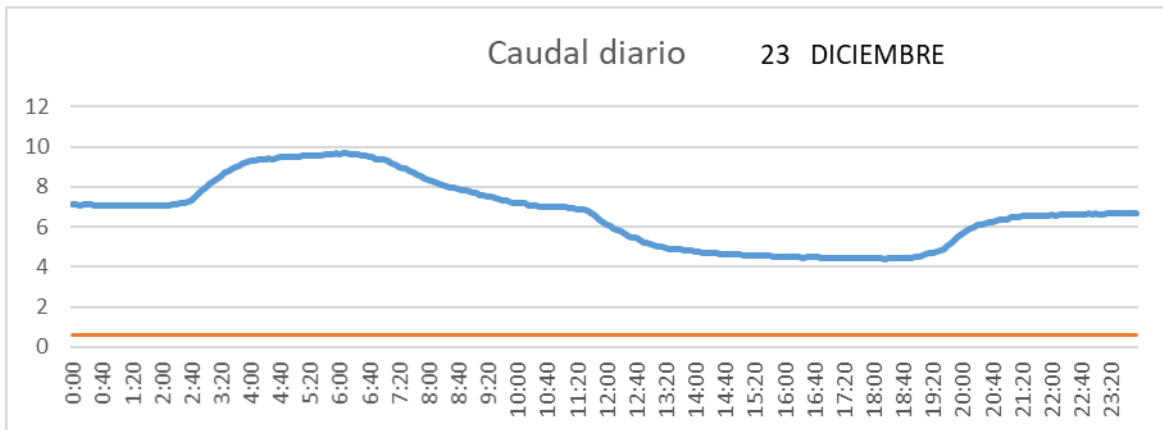
SAN LORENZO PARRILLA



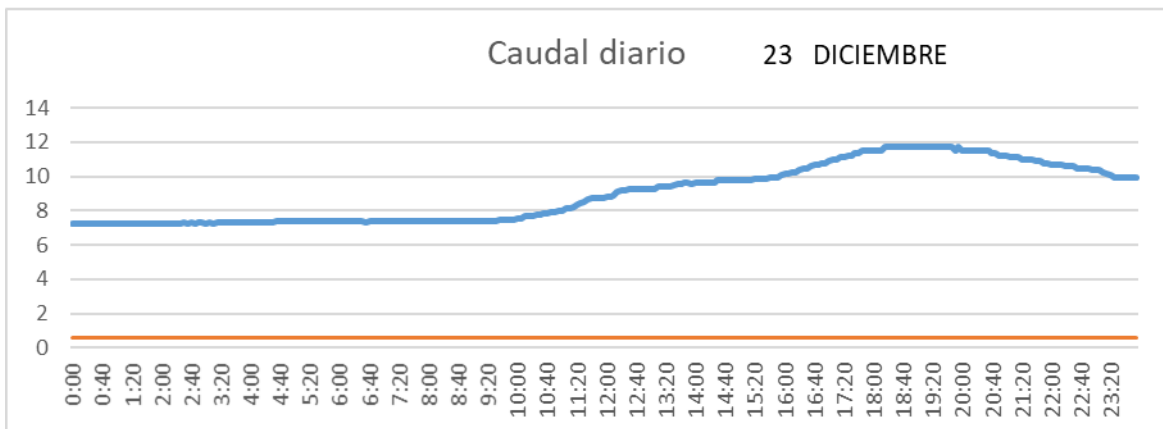
SALIDA TOBA



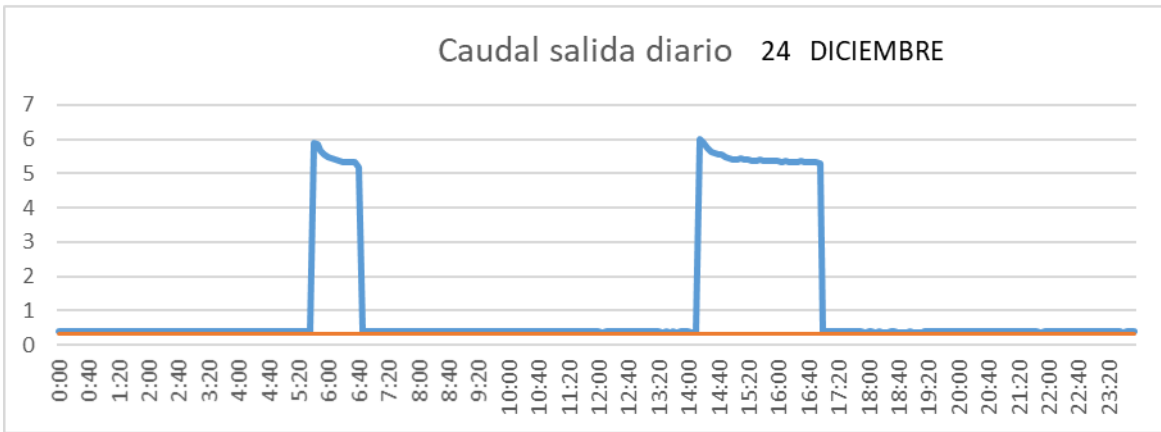
CUENCA



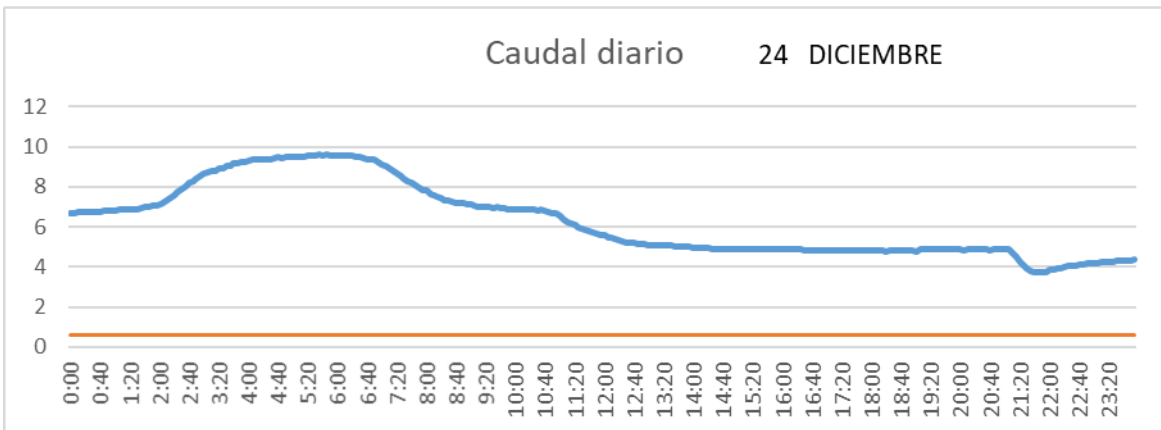
SAN LORENZO PARRILLA



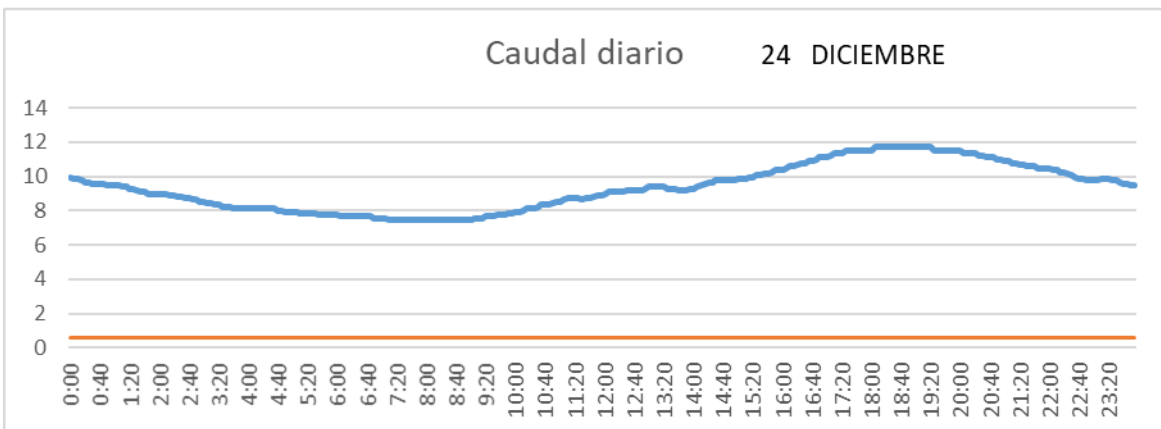
SALIDA TOBA



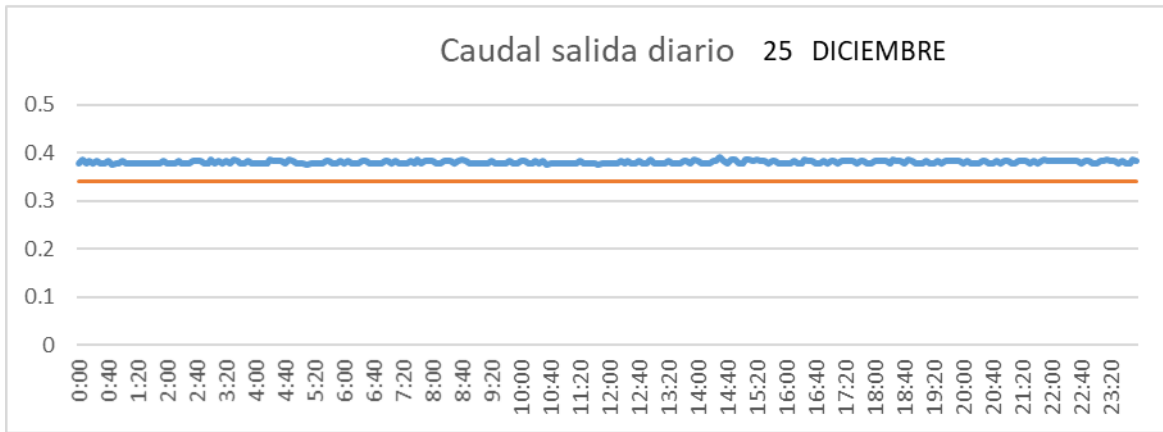
CUENCA



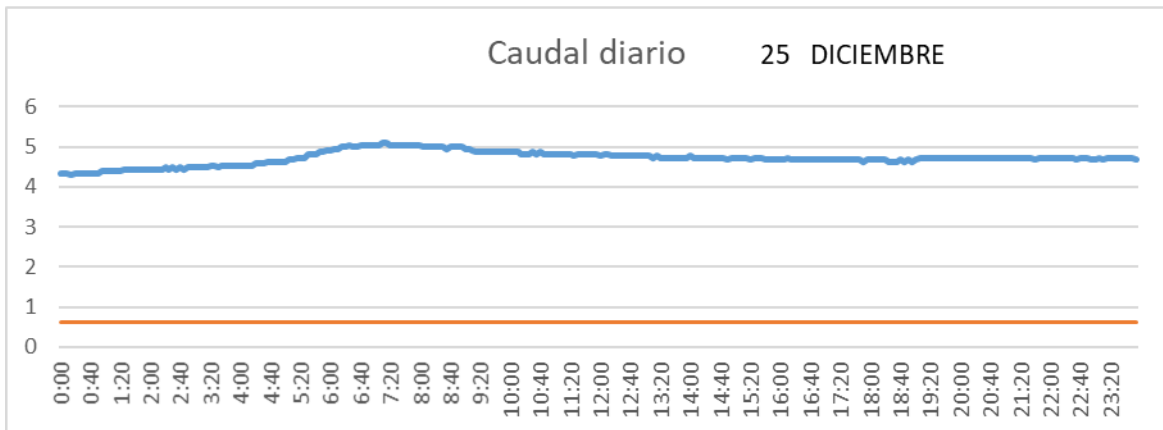
SAN LORENZO PARRILLA



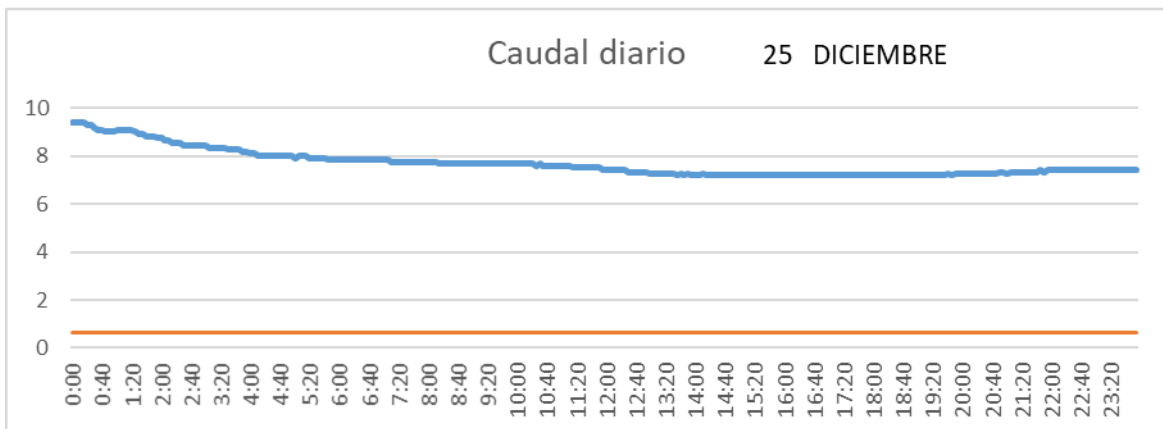
SALIDA TOBA



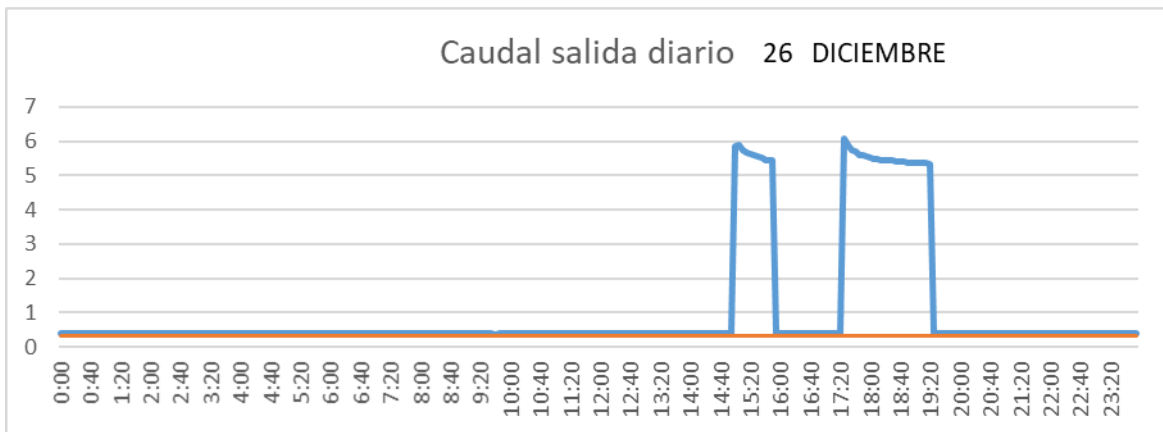
CUENCA



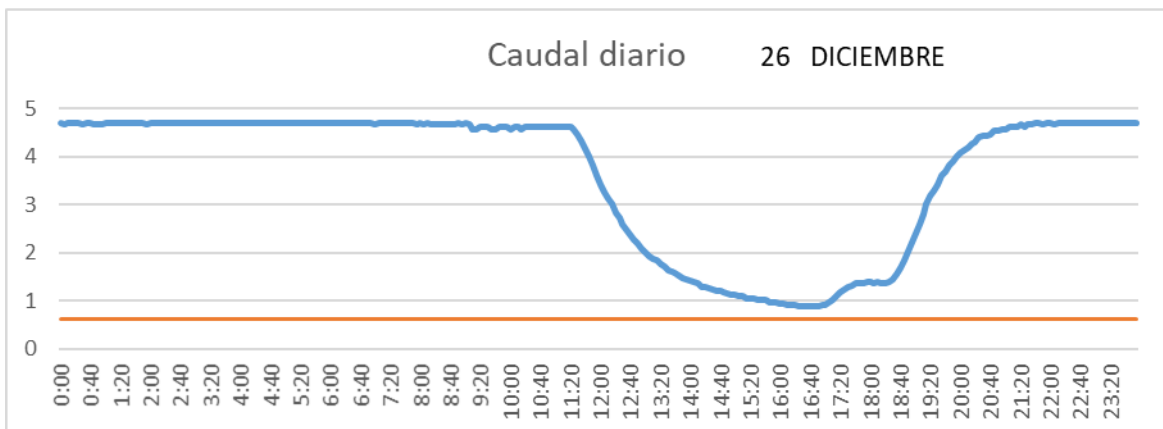
SAN LORENZO PARRILLA



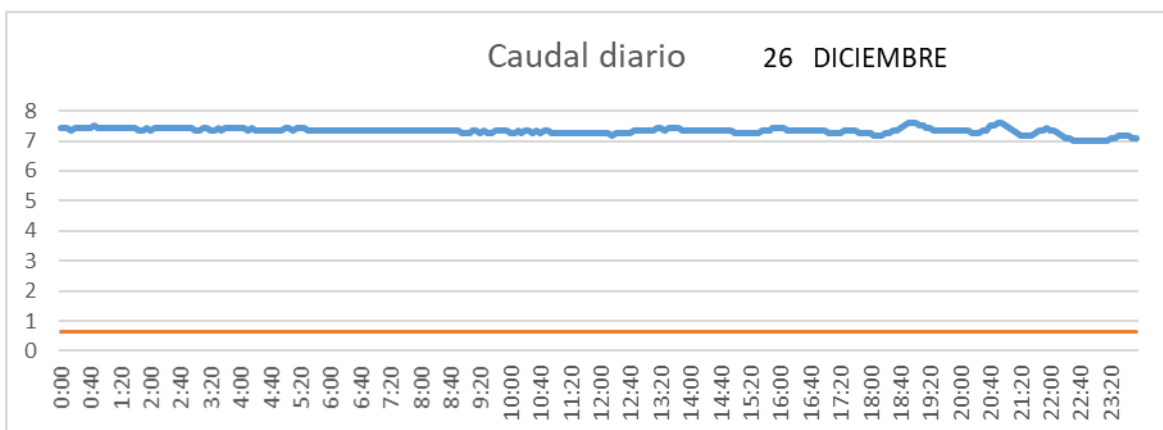
SALIDA TOBA



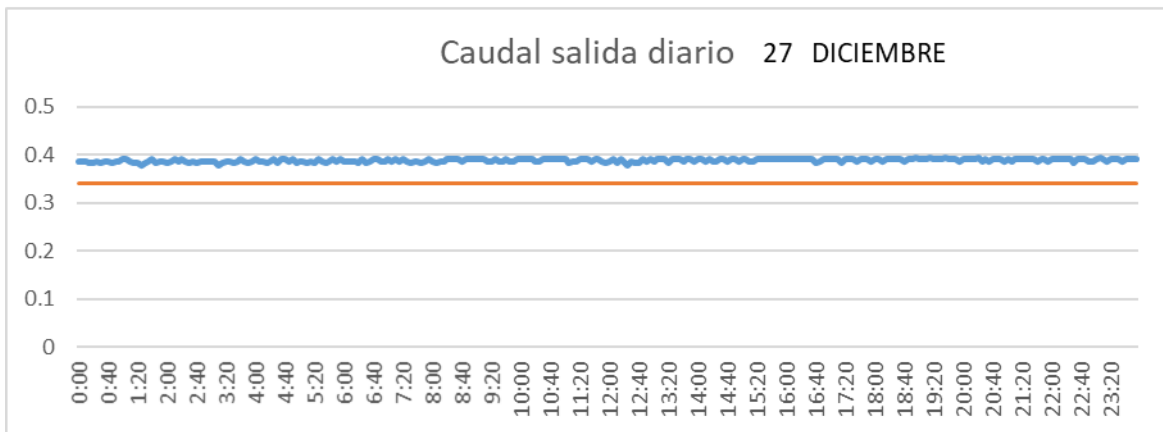
CUENCA



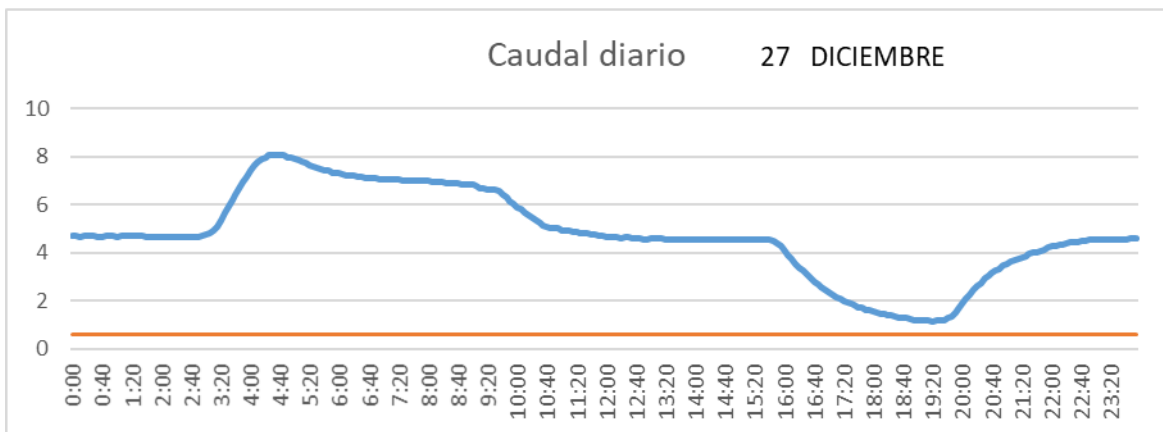
SAN LORENZO PARRILLA



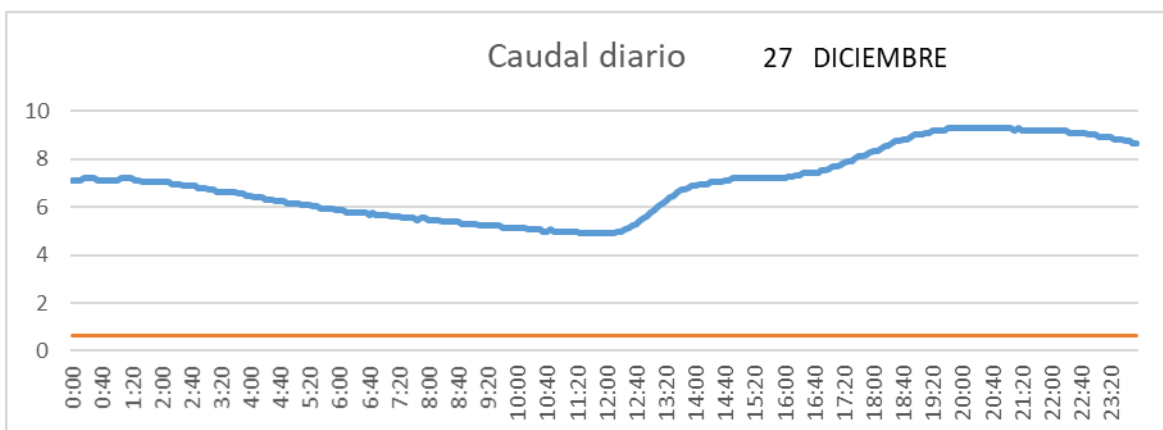
SALIDA TOBA



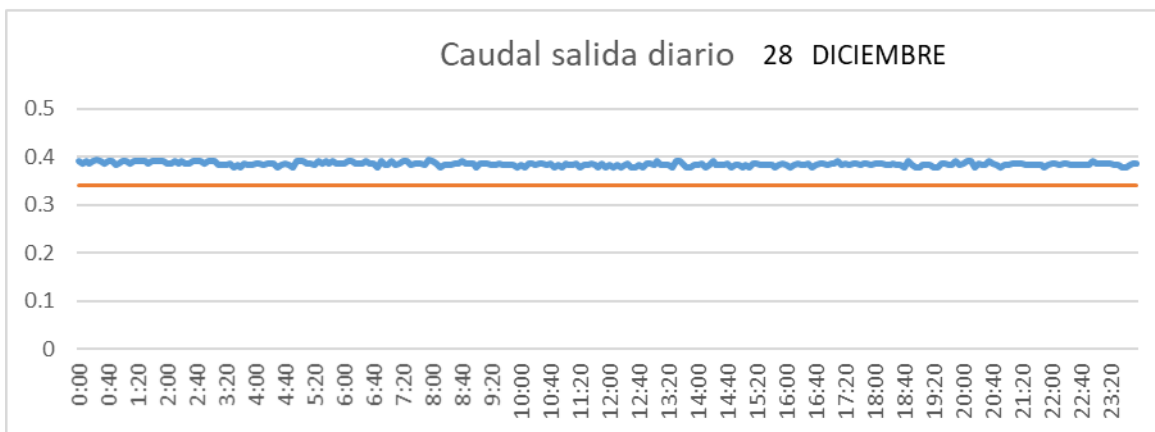
CUENCA



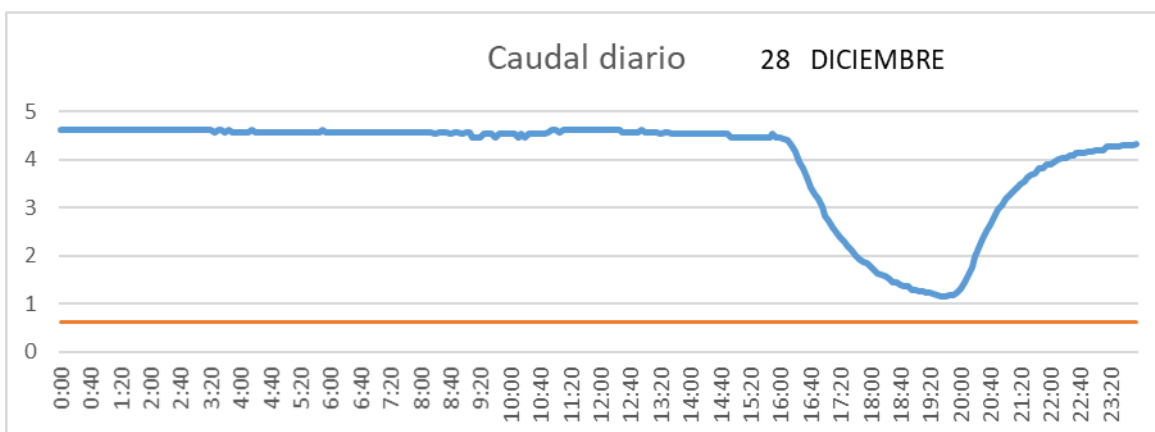
SAN LORENZO PARRILLA



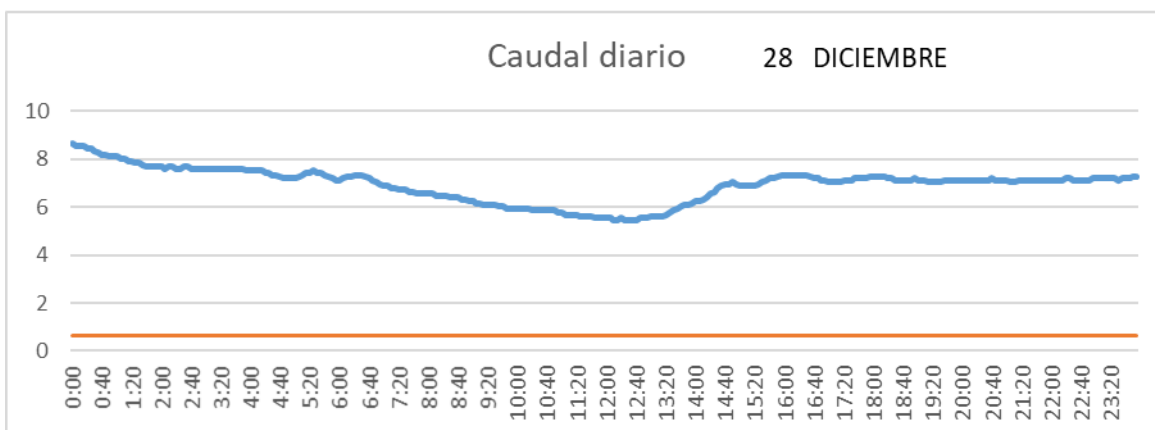
SALIDA TOBA



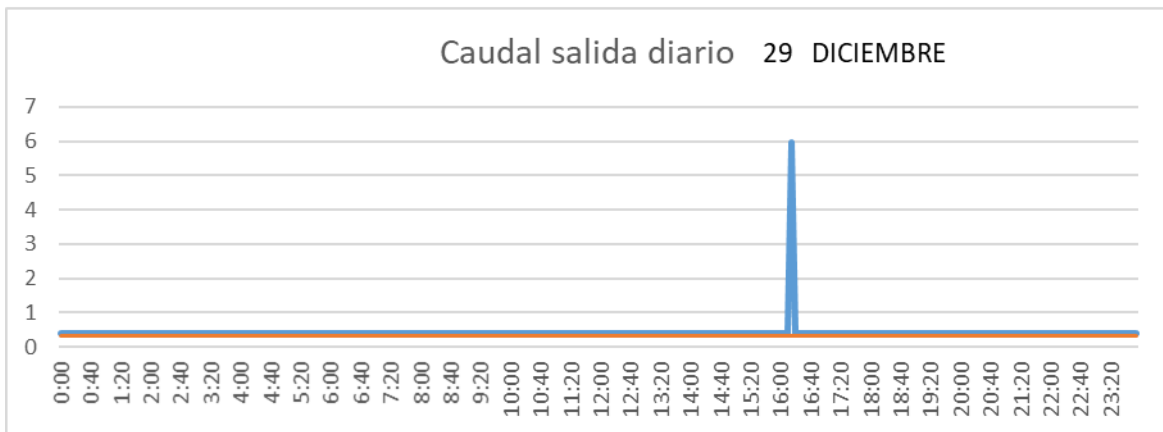
CUENCA



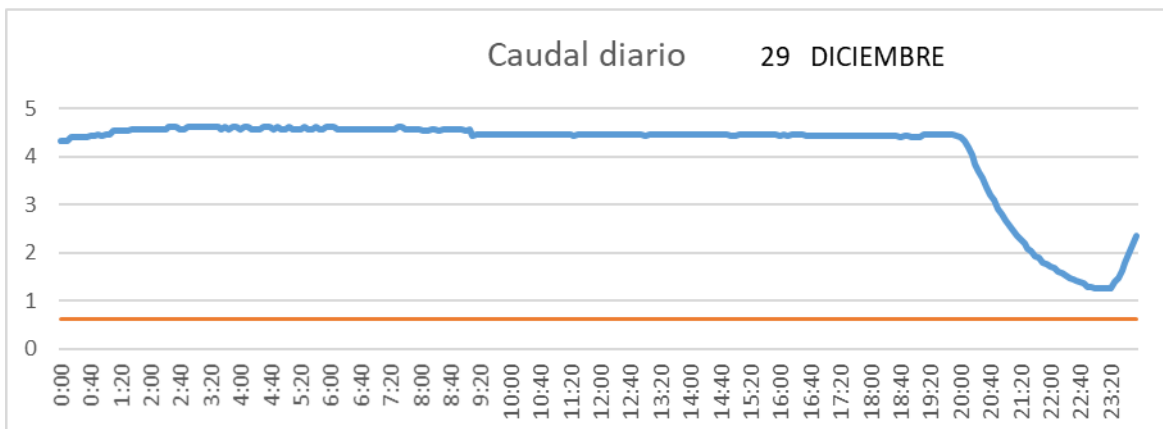
SAN LORENZO PARRILLA



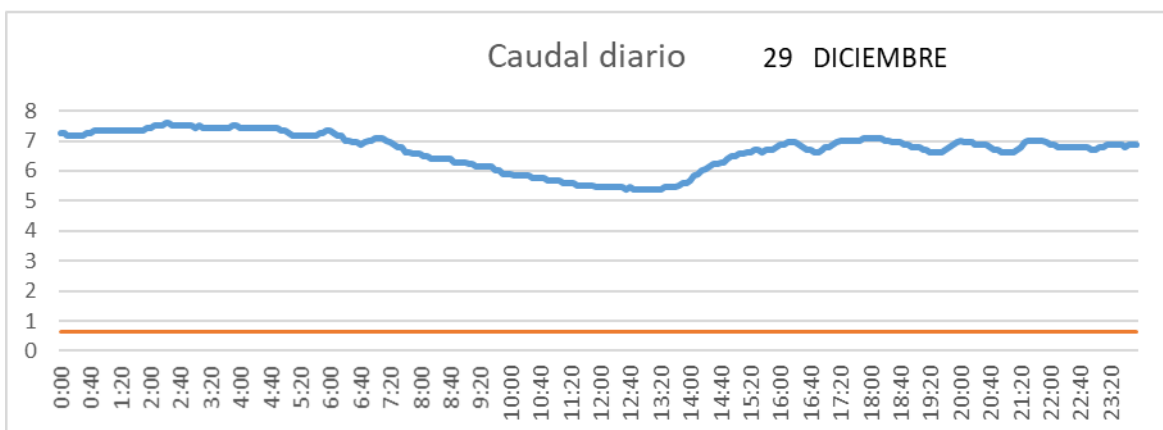
SALIDA TOBA



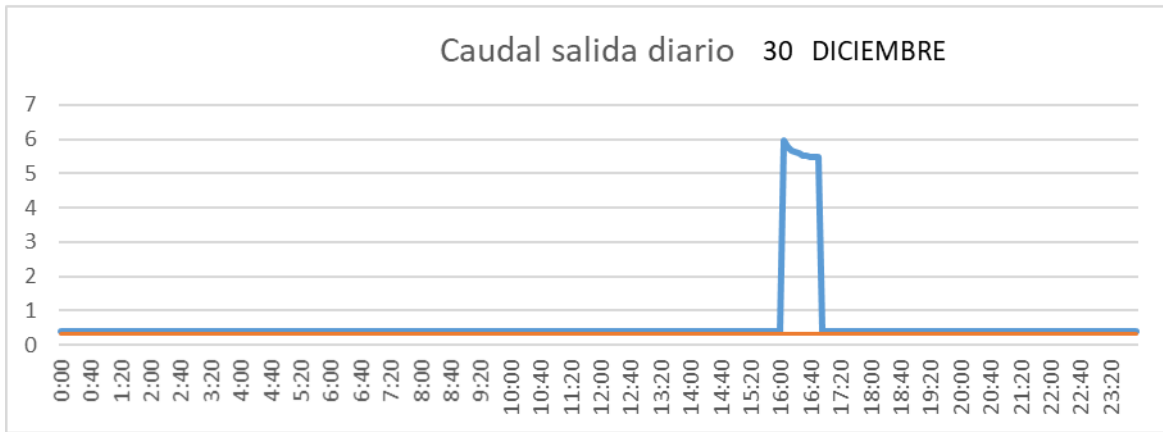
CUENCA



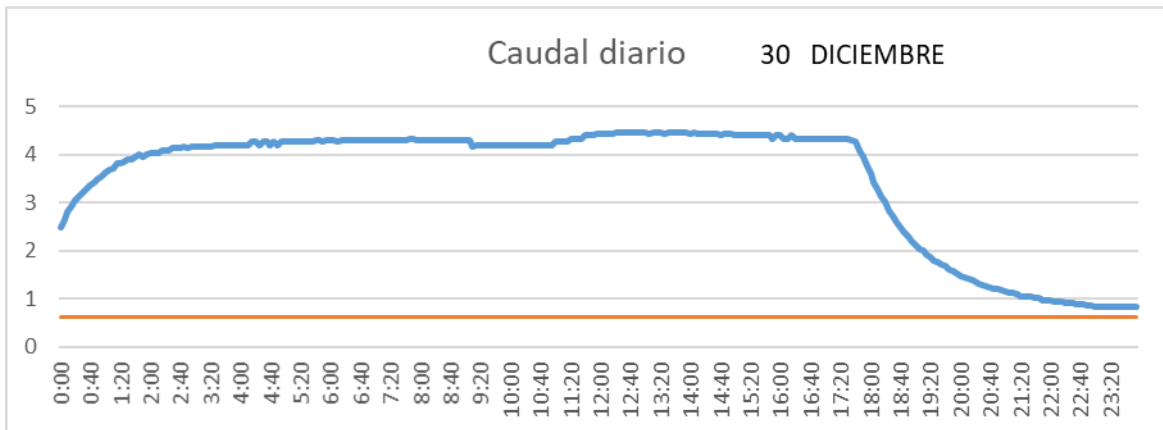
SAN LORENZO PARRILLA



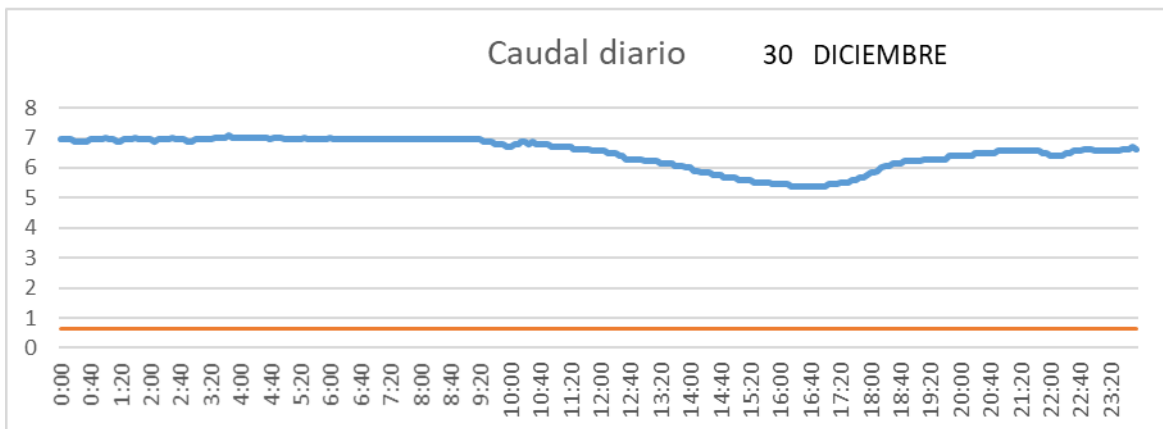
SALIDA TOBA



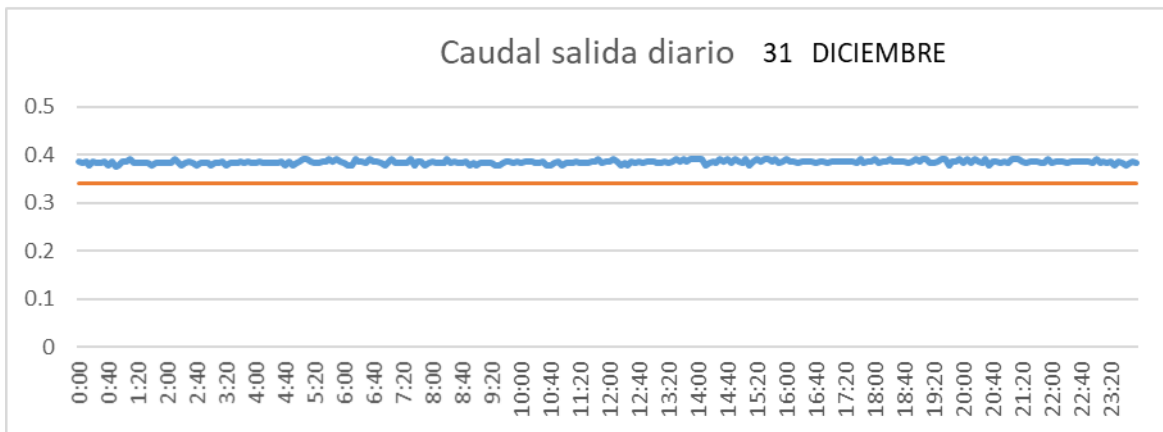
CUENCA



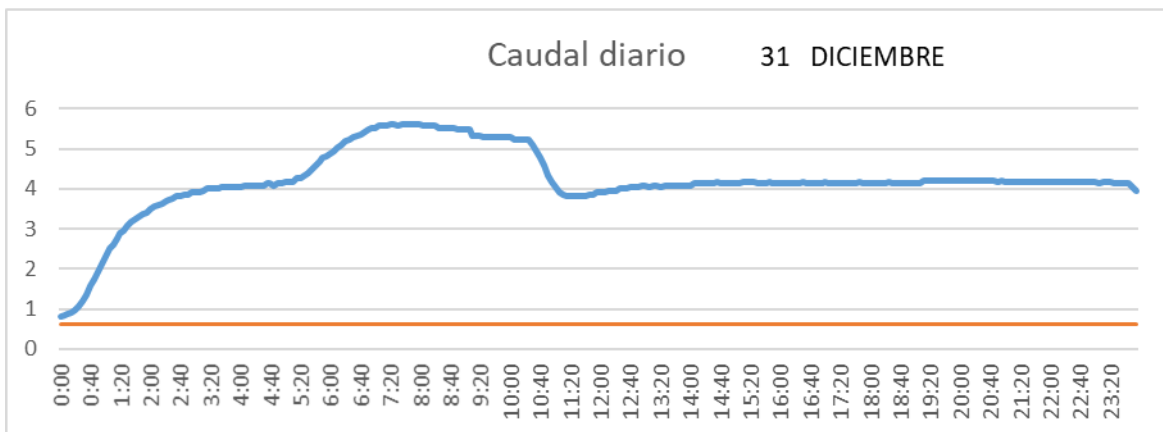
SAN LORENZO PARRILLA



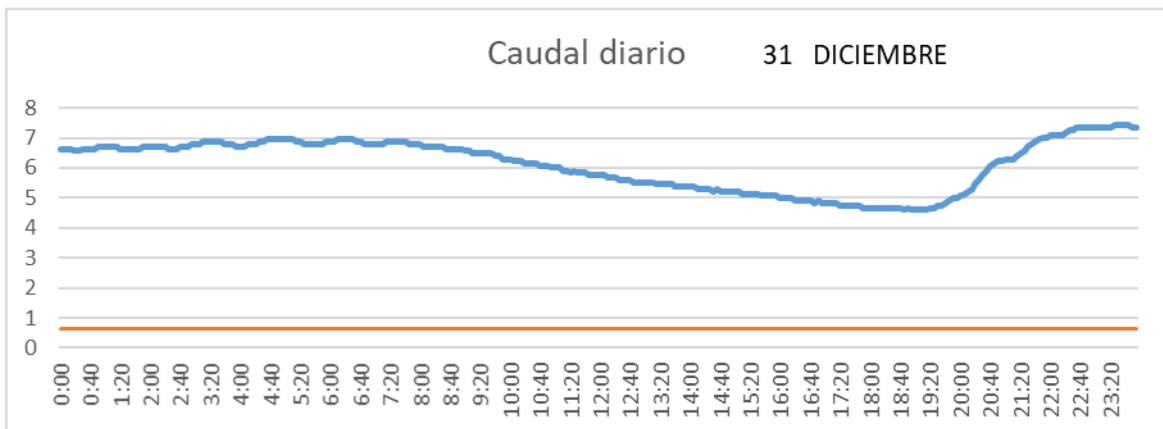
SALIDA TOBA



CUENCA



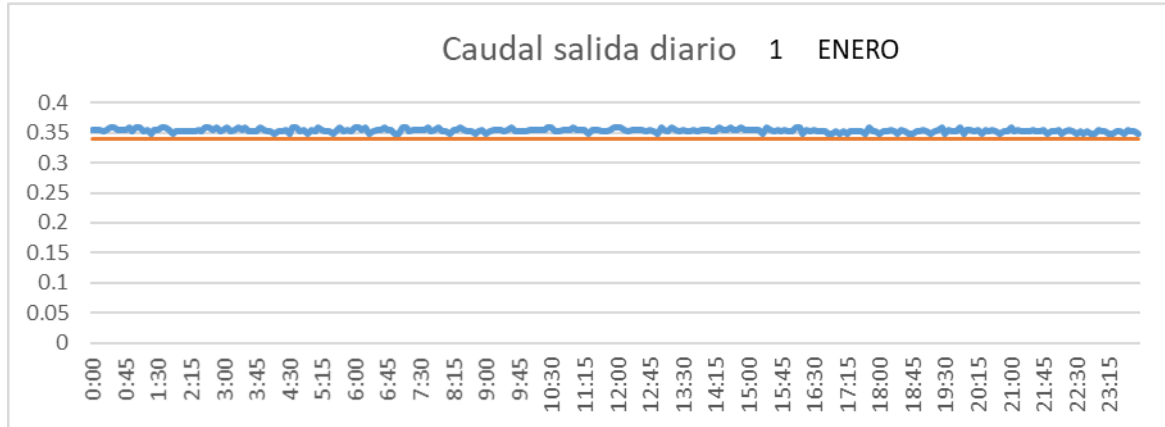
SAN LORENZO PARRILLA



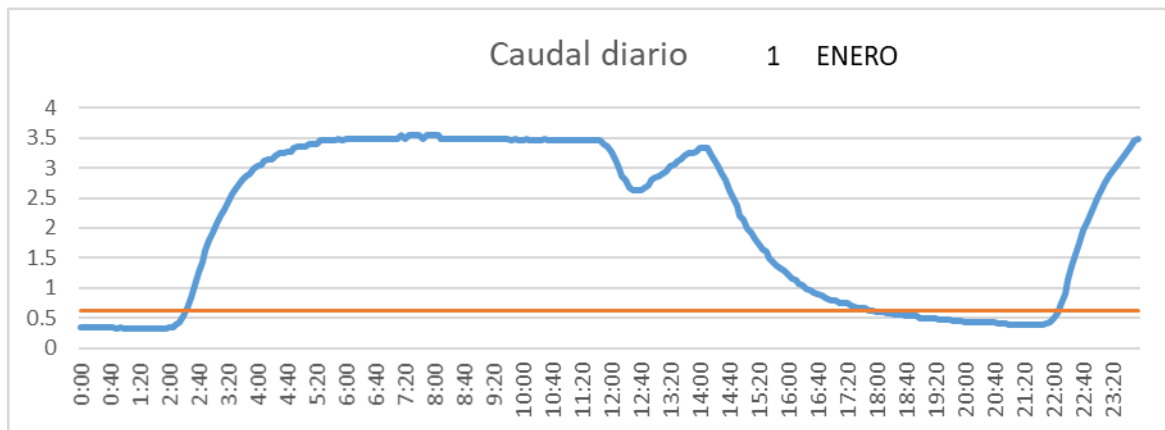
2.2 Año 2016

2.2.1 Enero

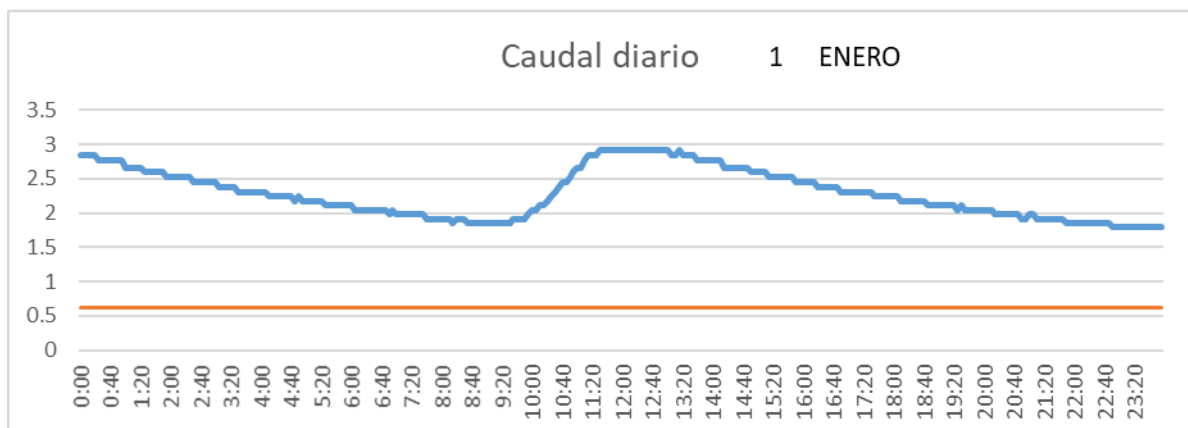
SALIDA TOBA



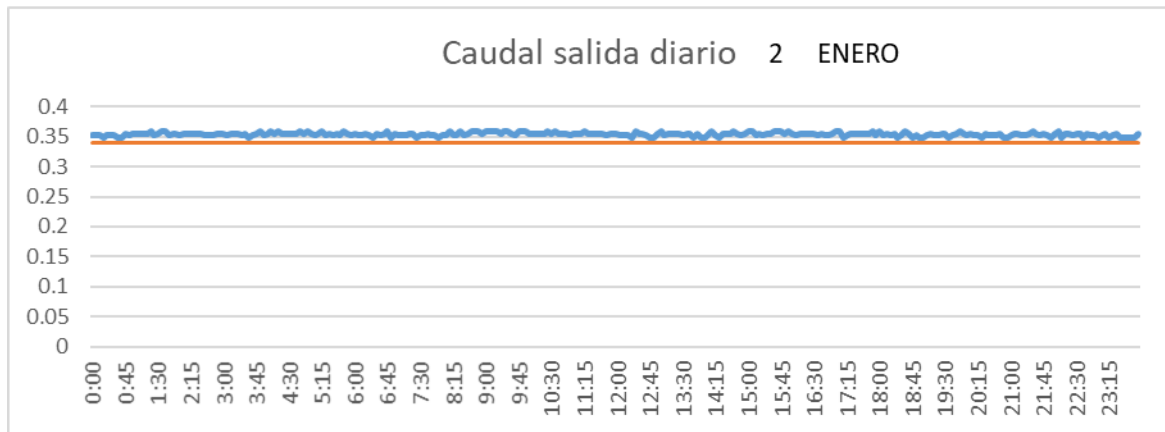
CUENCA



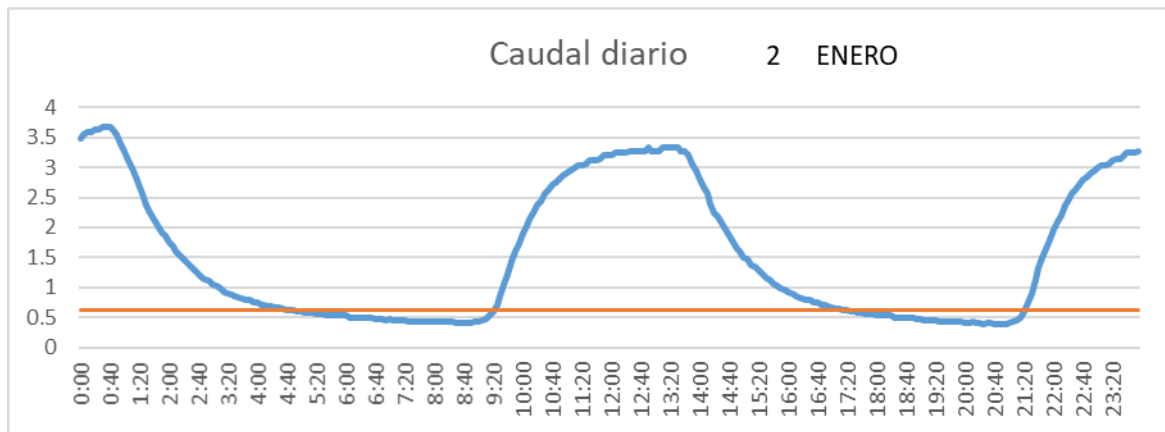
SAN LORENZO PARRILLA



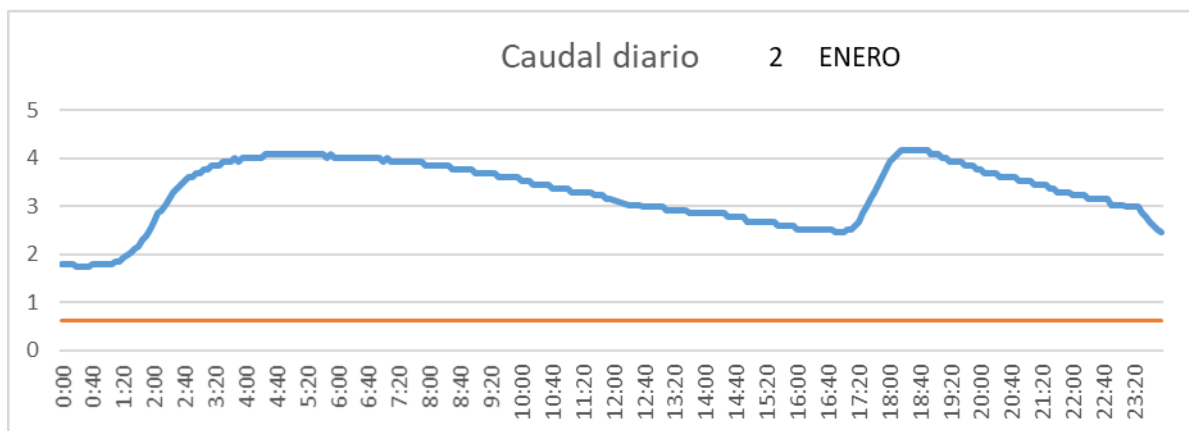
SALIDA TOBA



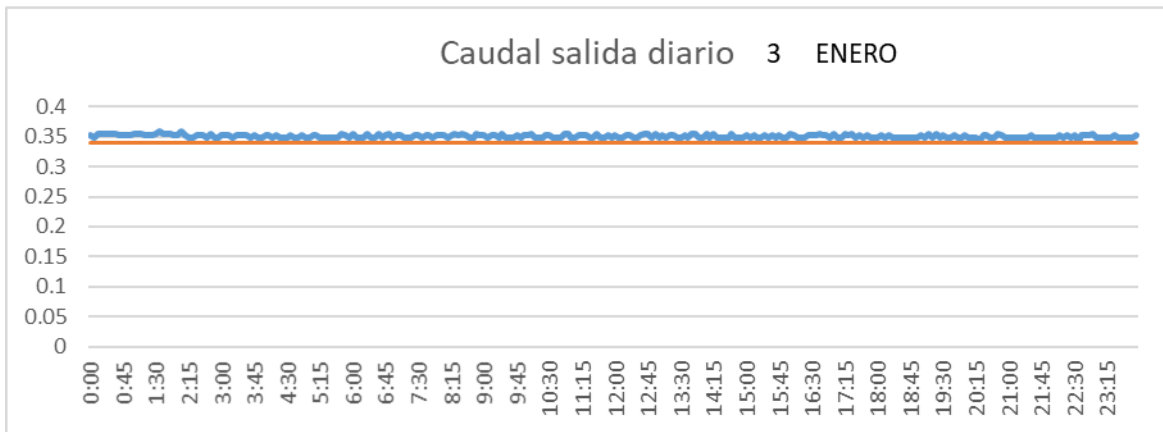
CUENCA



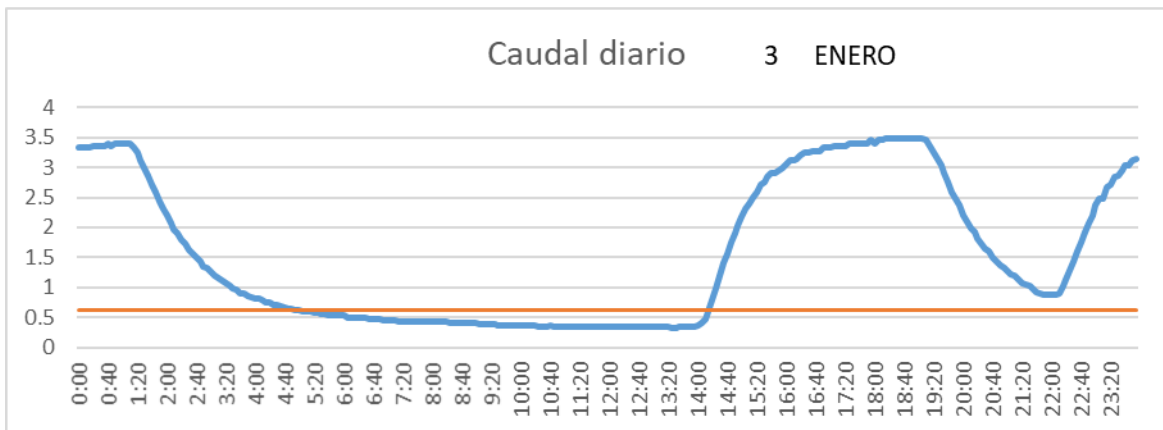
SAN LORENZO PARRILLA



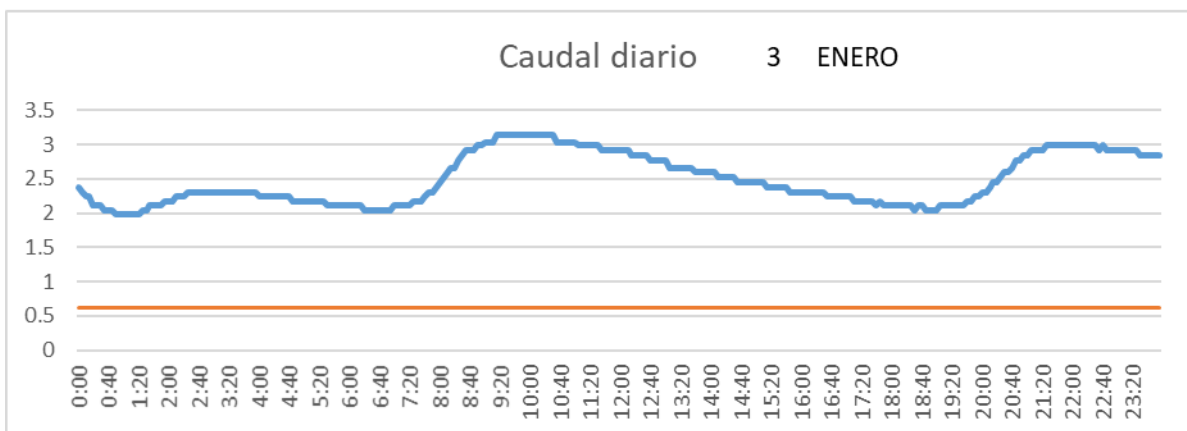
SALIDA TOBA



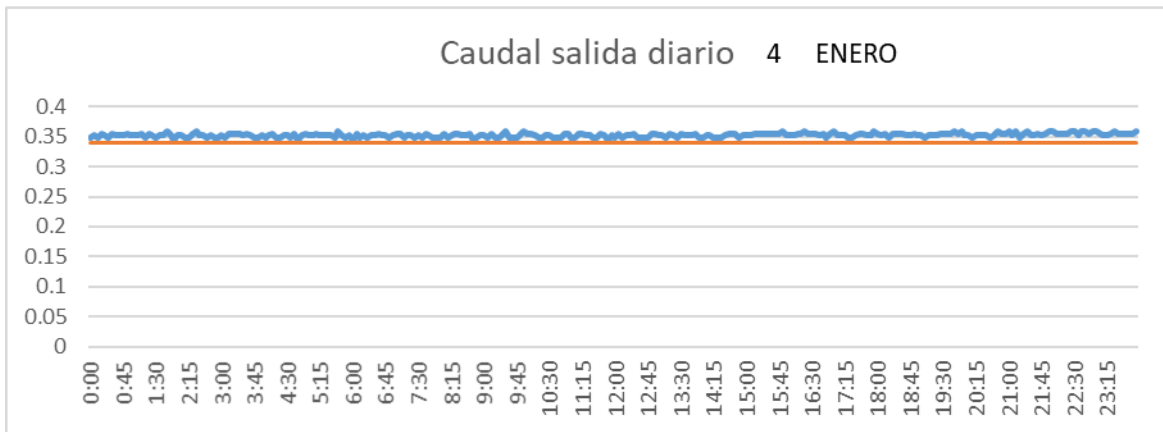
CUENCA



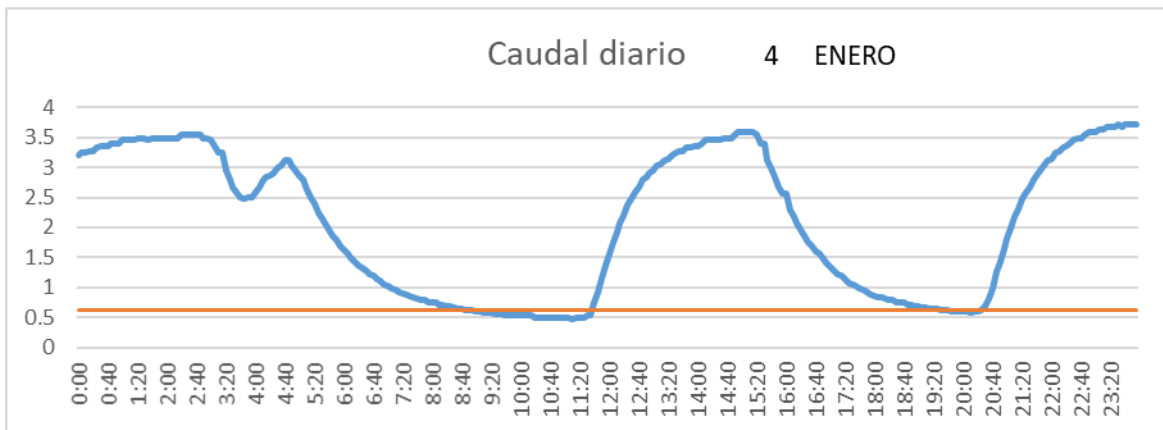
SAN LORENZO PARRILLA



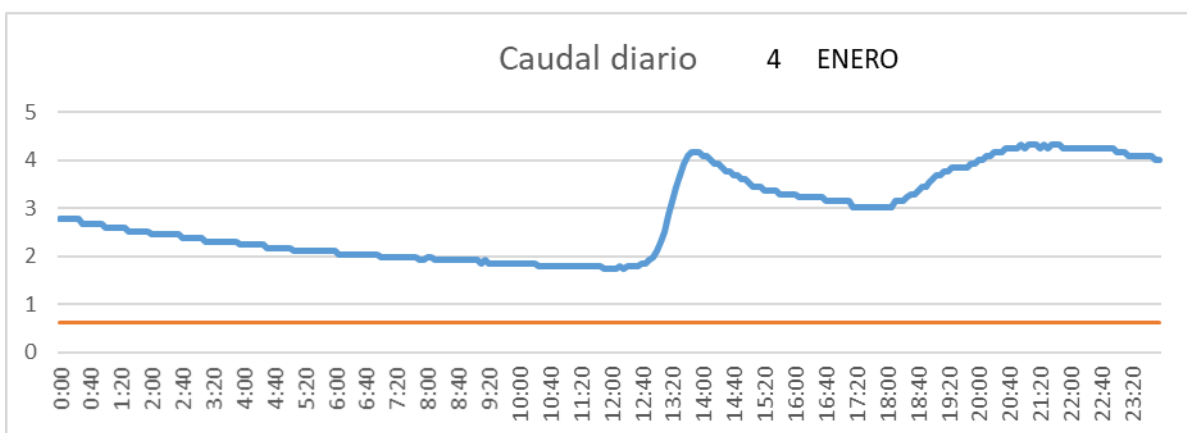
SALIDA TOBA



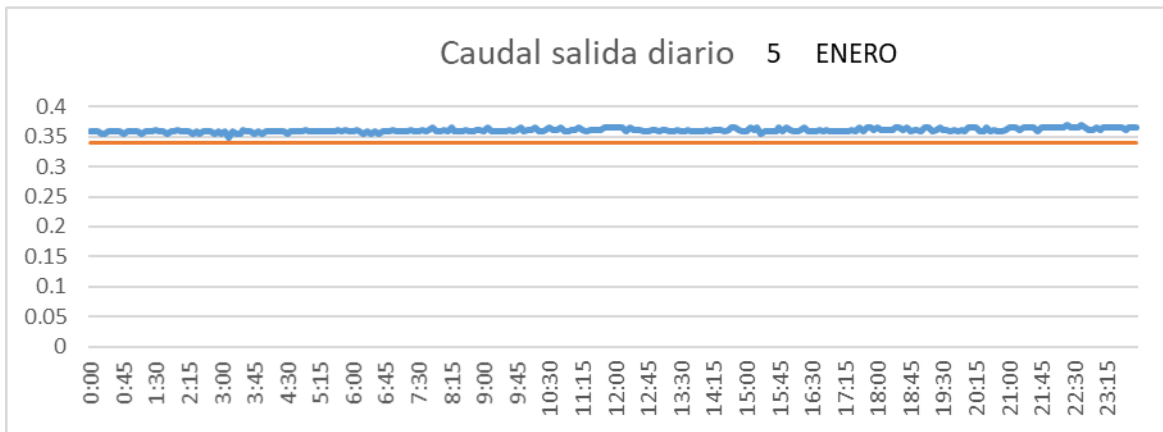
CUENCA



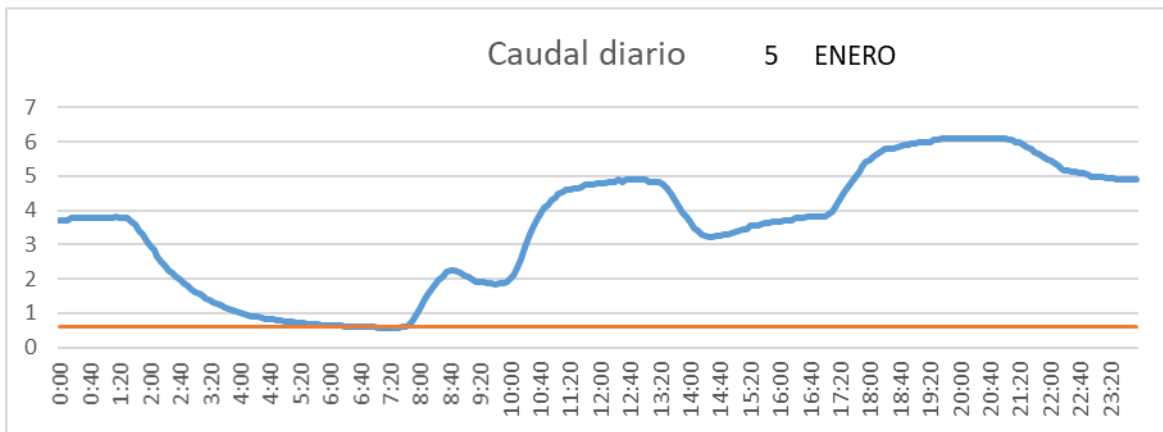
SAN LORENZO PARRILLA



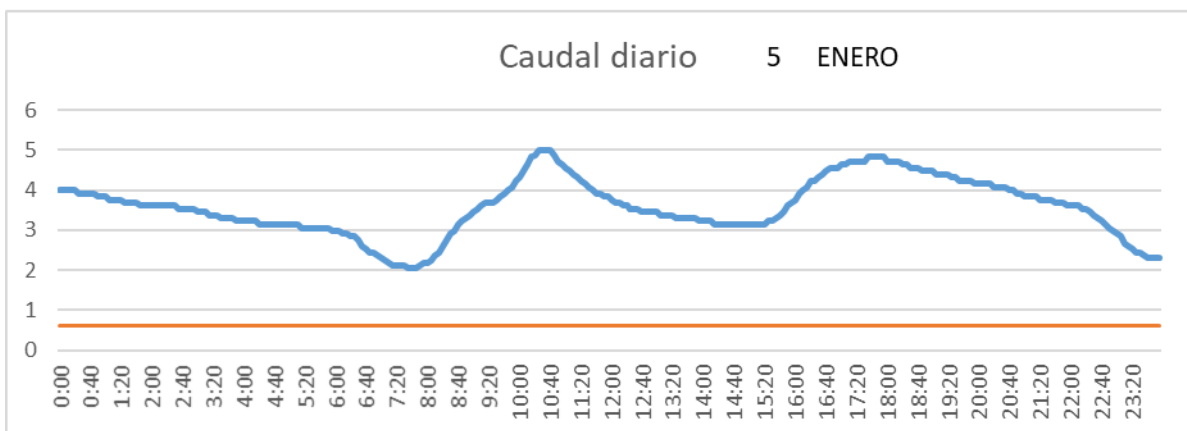
SALIDA TOBA



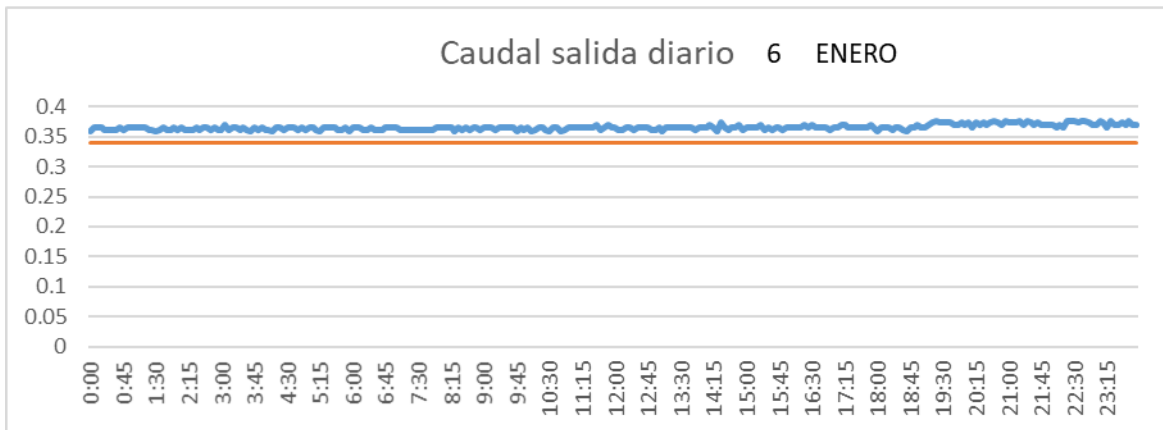
CUENCA



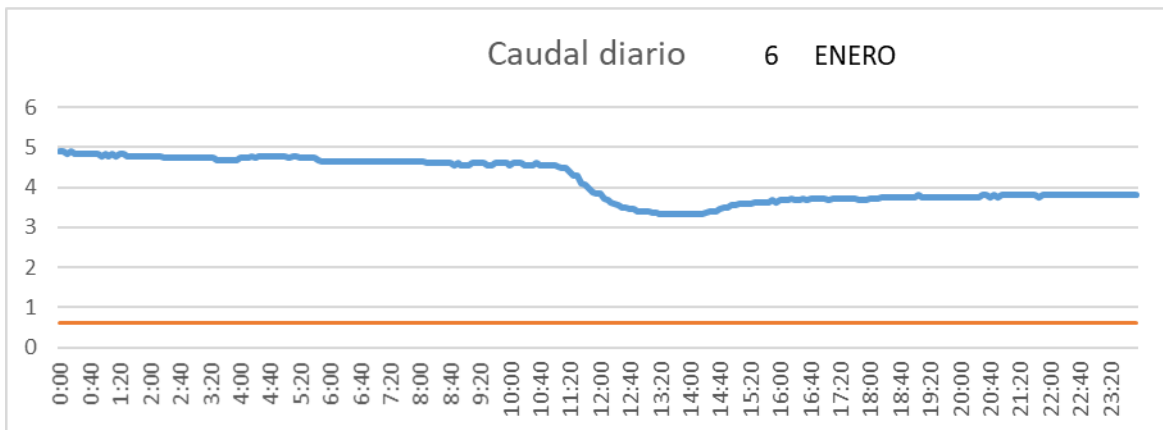
SAN LORENZO PARRILLA



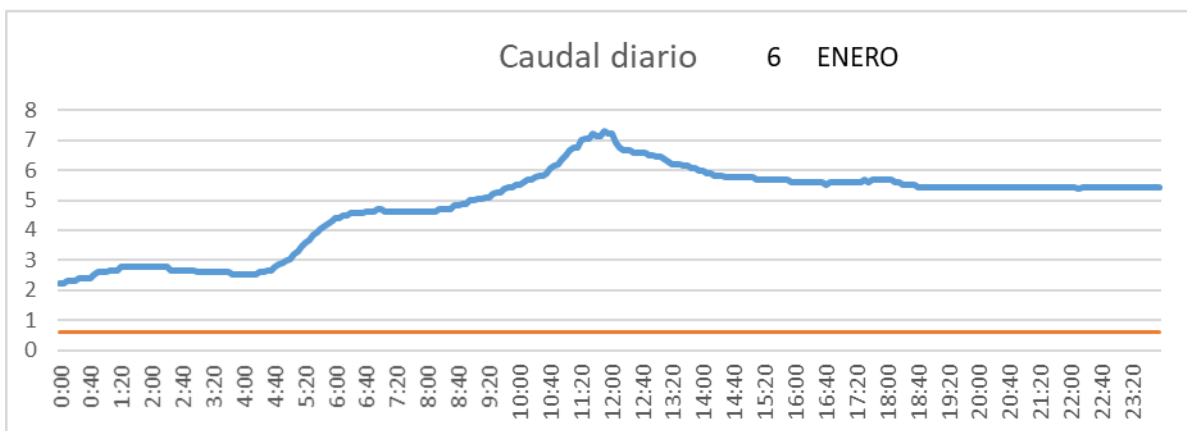
SALIDA TOBA



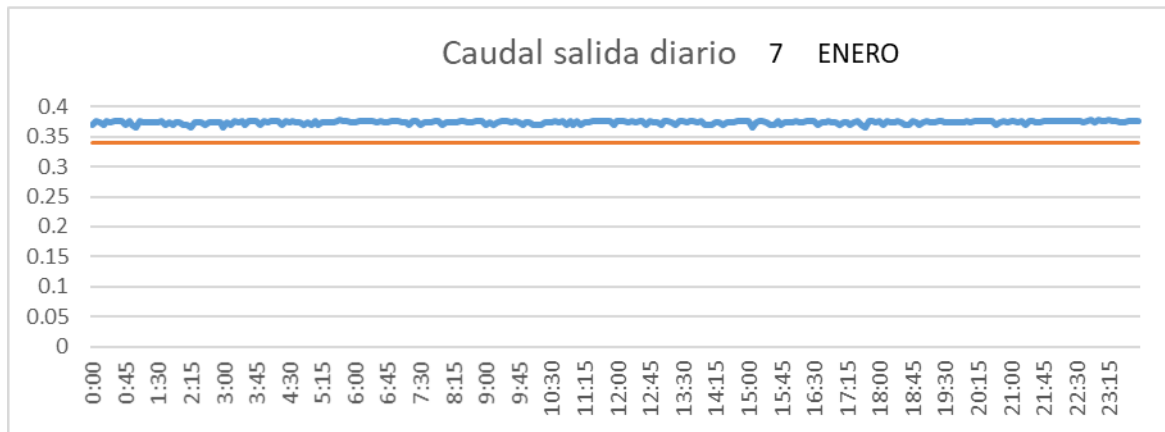
CUENCA



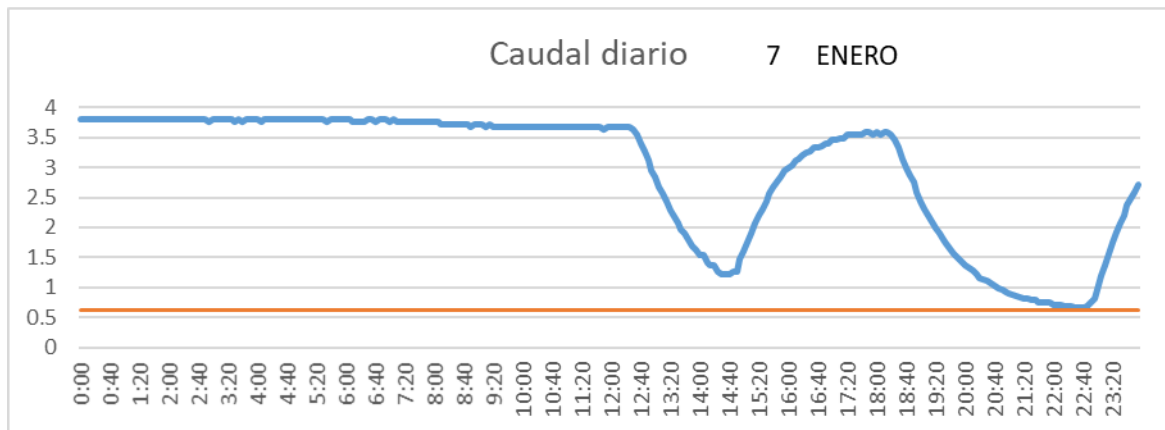
SAN LORENZO PARRILLA



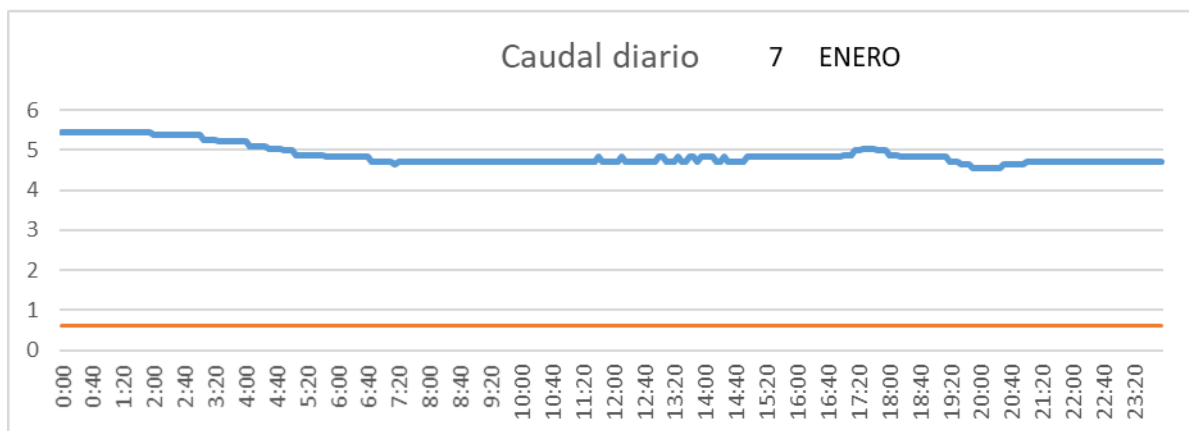
SALIDA TOBA



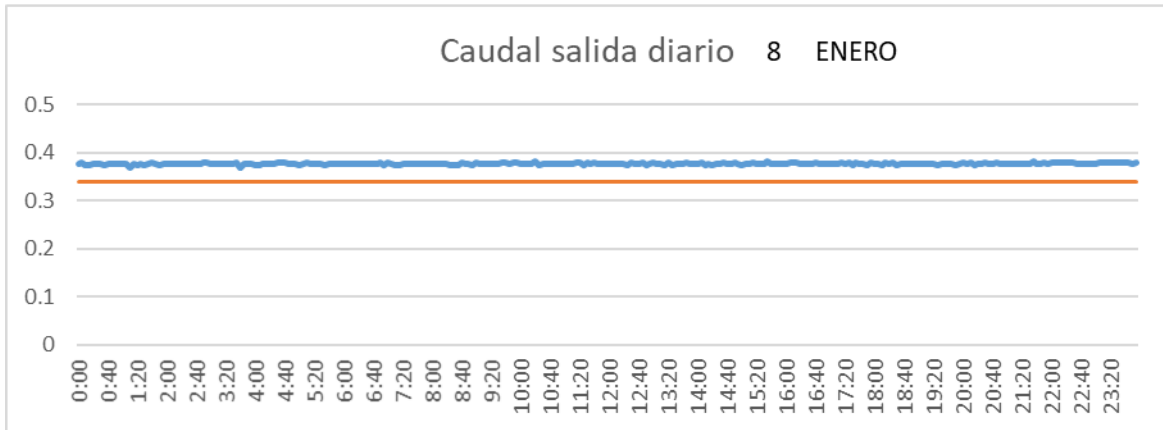
CUENCA



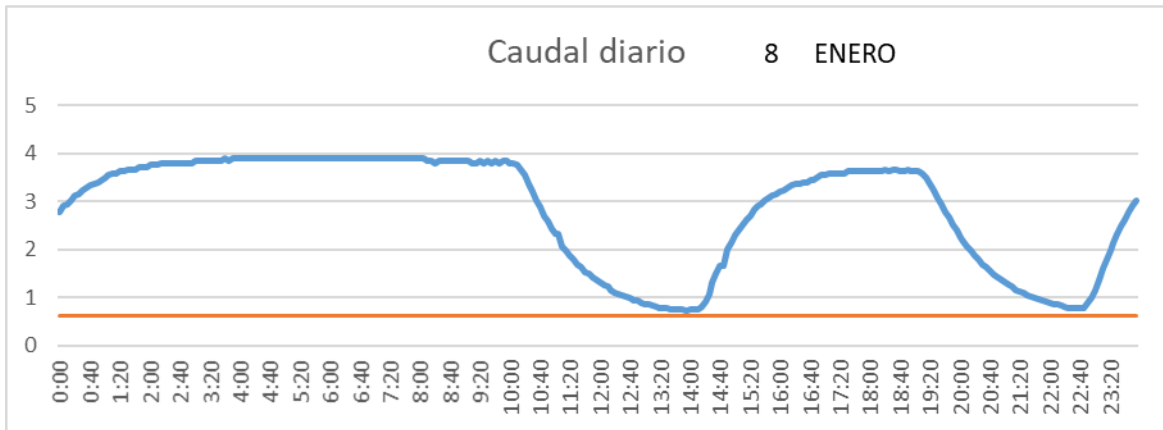
SAN LORENZO PARRILLA



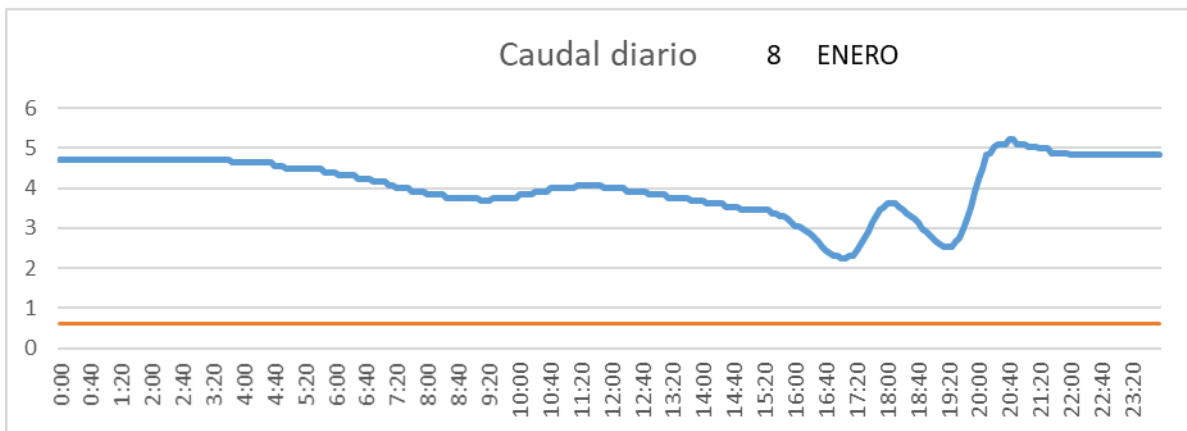
SALIDA TOBA



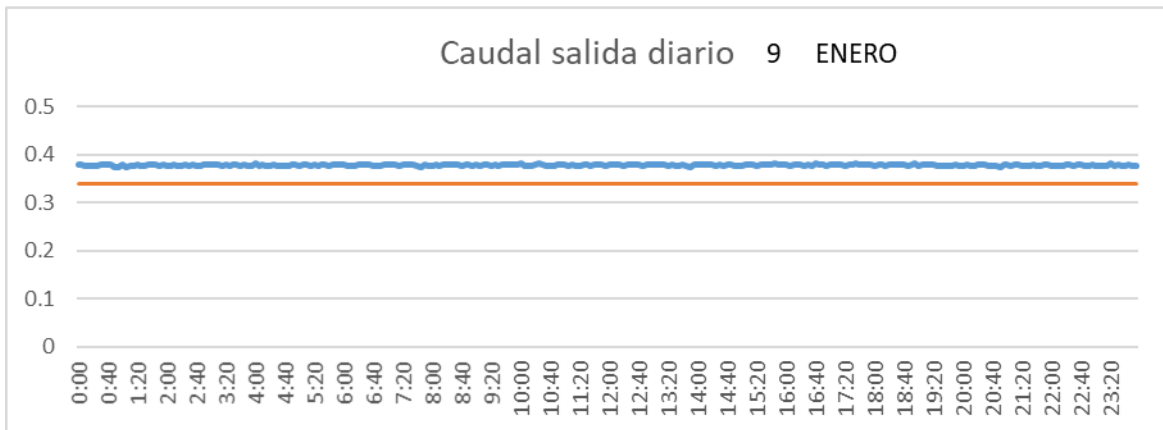
CUENCA



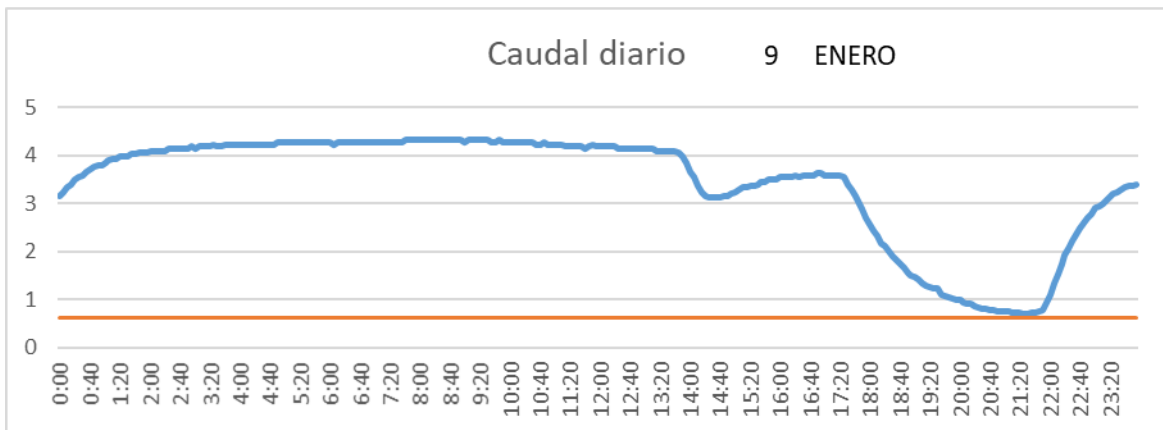
SAN LORENZO PARRILLA



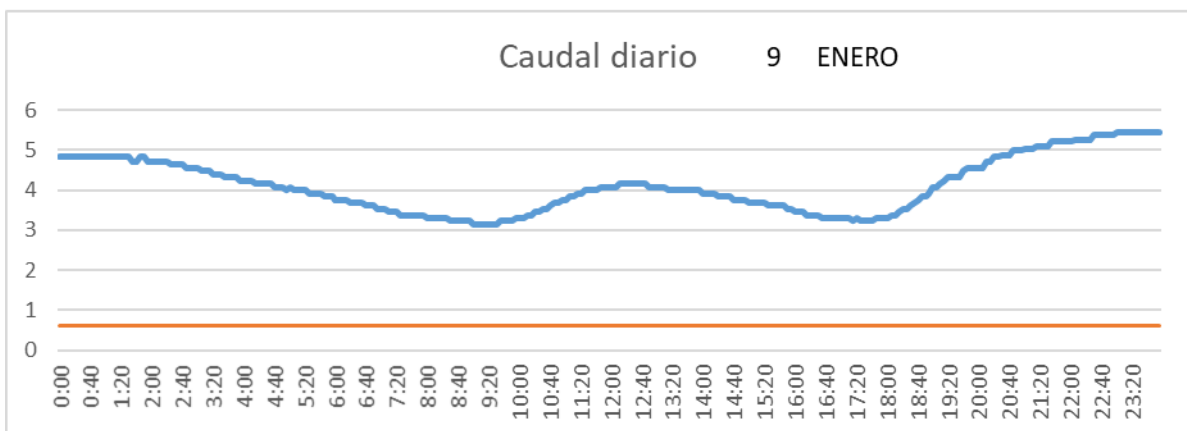
SALIDA TOBA



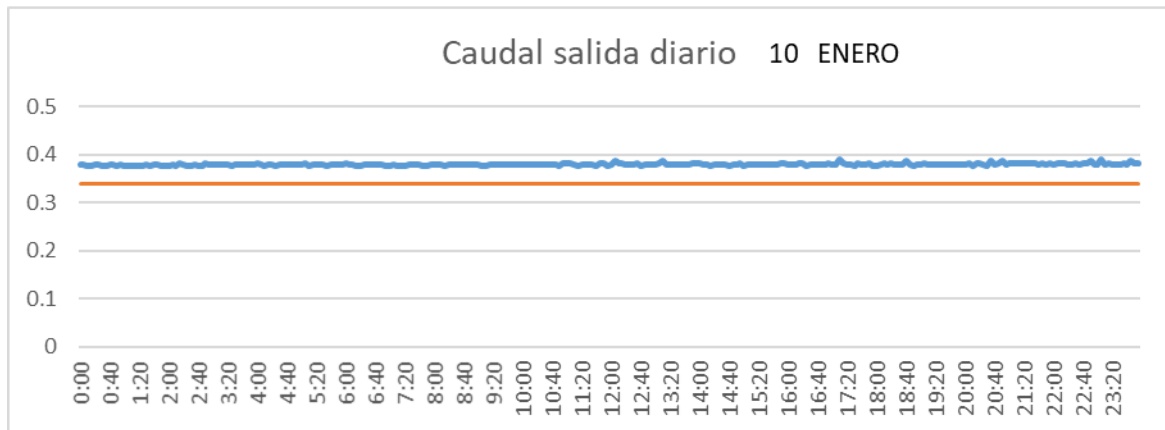
CUENCA



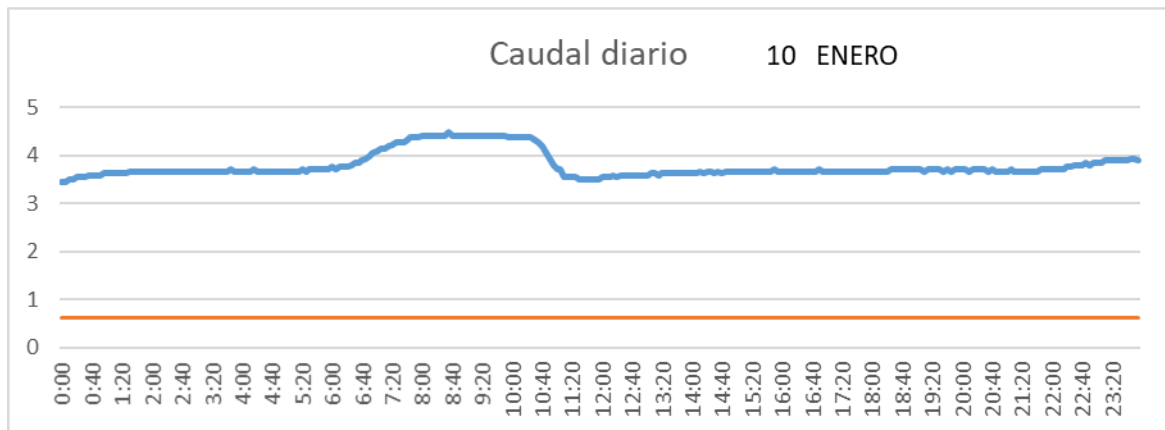
SAN LORENZO PARRILLA



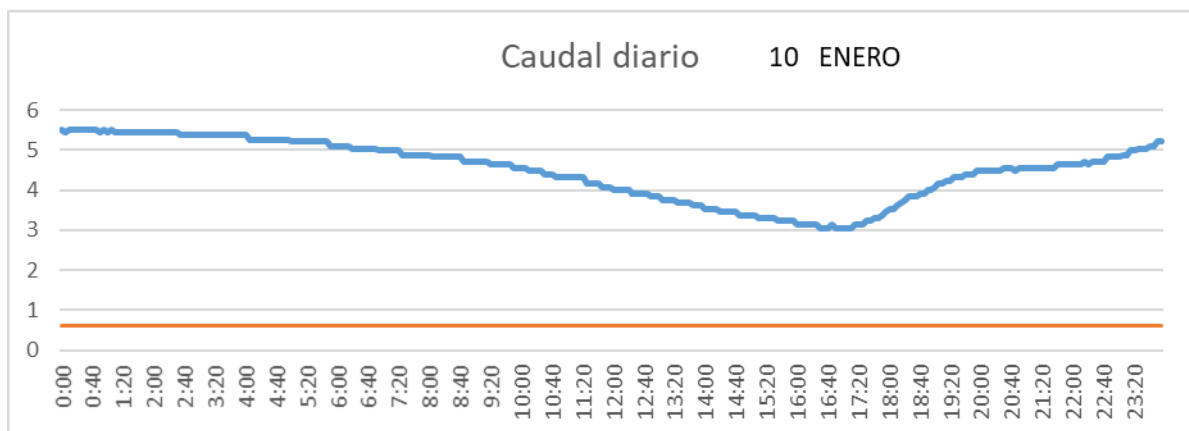
SALIDA TOBA



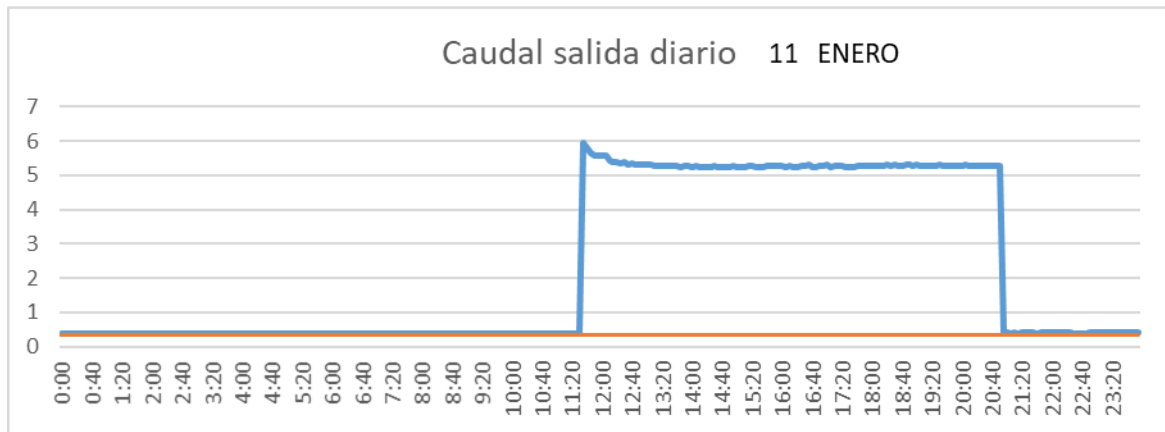
CUENCA



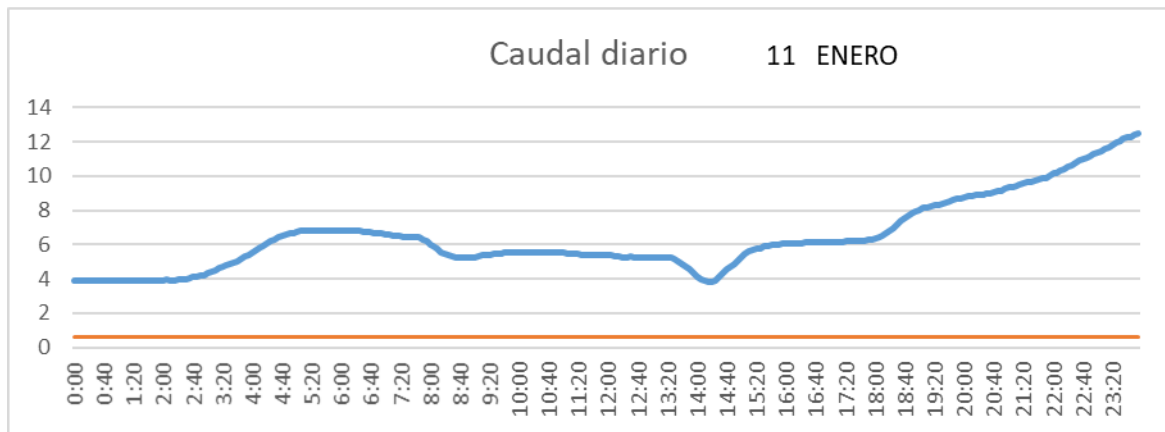
SAN LORENZO PARRILLA



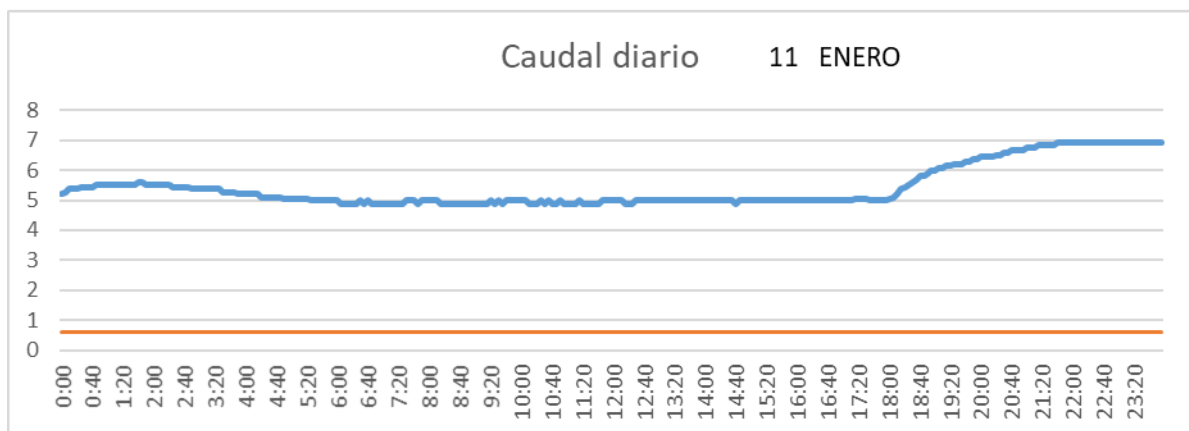
SALIDA TOBA



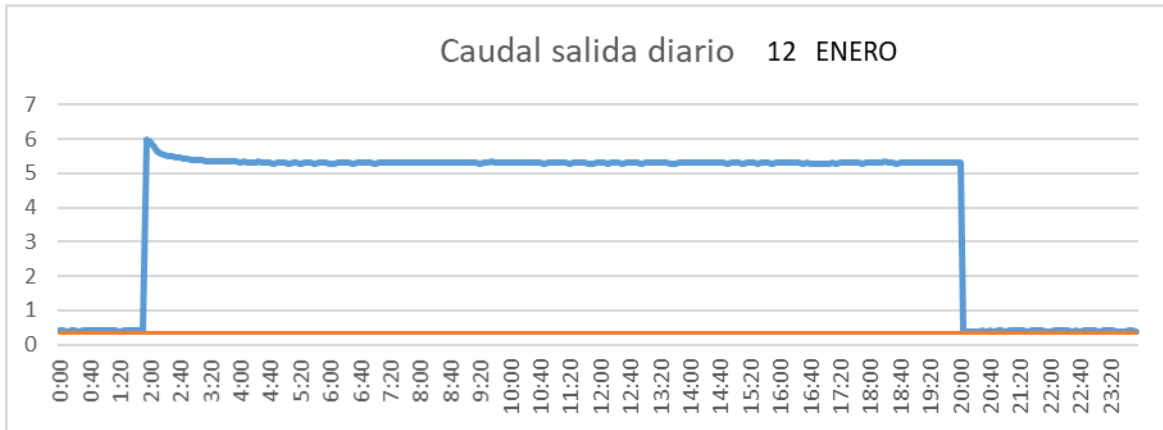
CUENCA



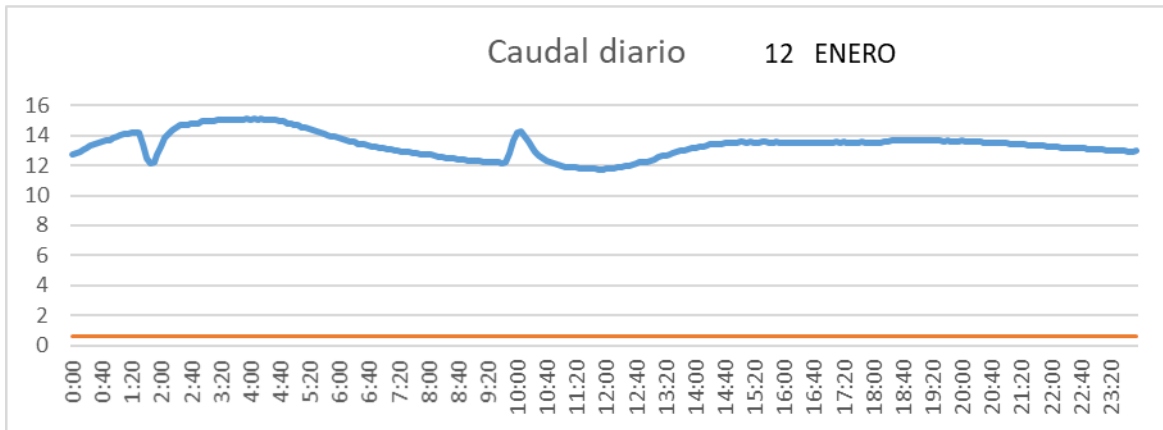
SAN LORENZO PARRILLA



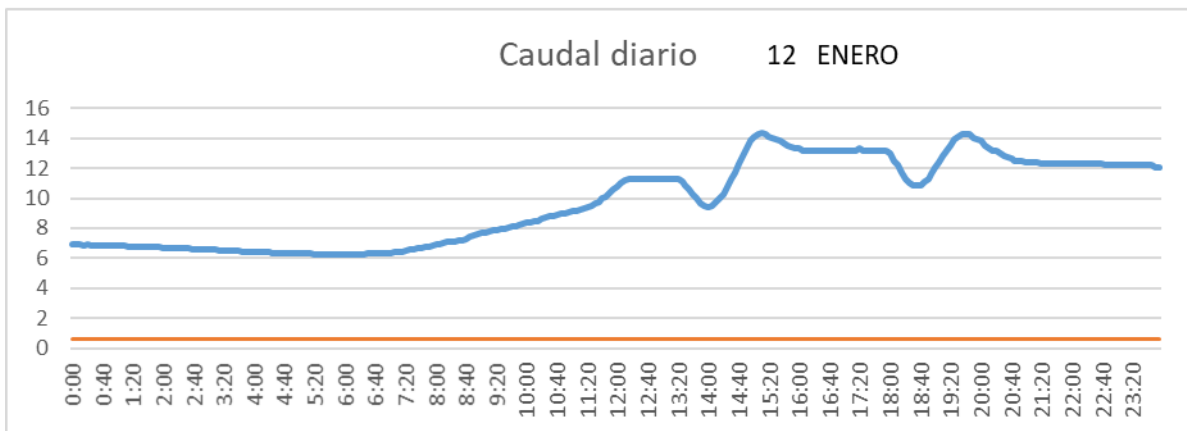
SALIDA TOBA



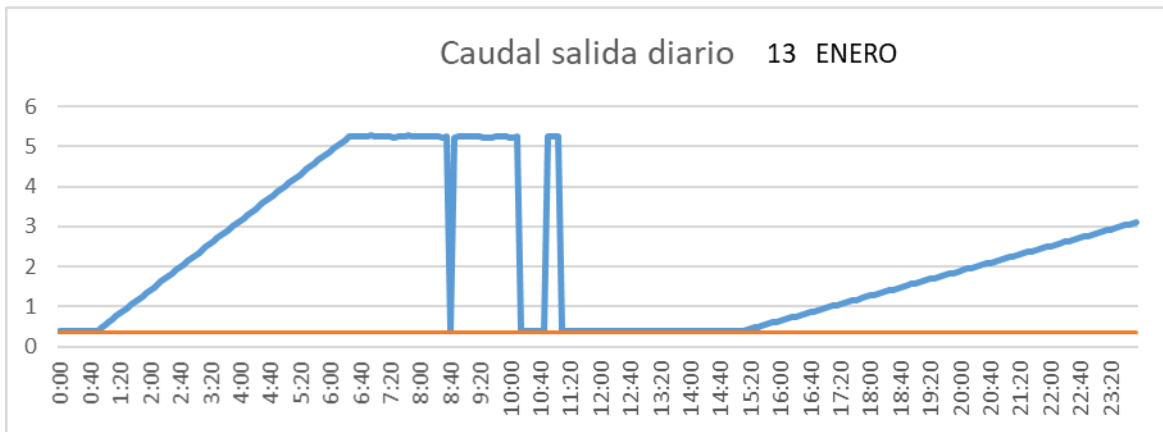
CUENCA



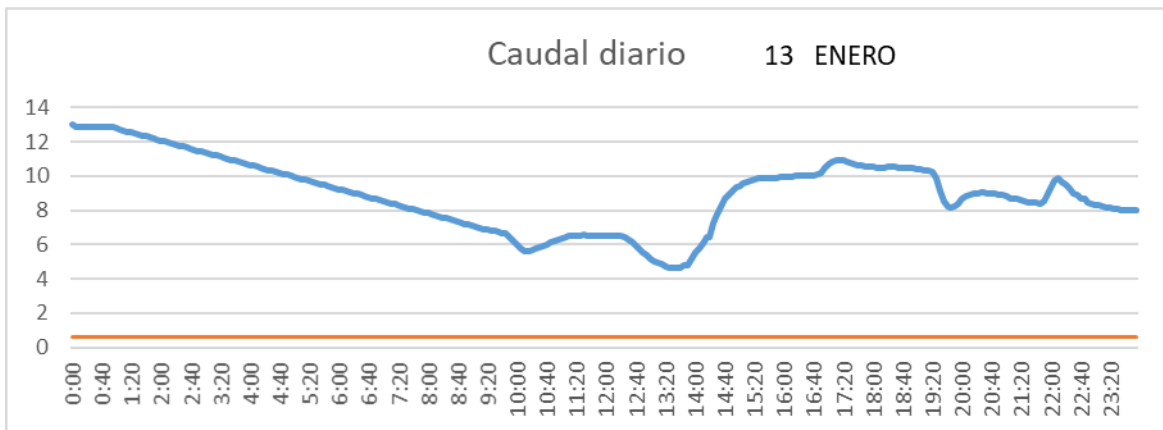
SAN LORENZO PARRILLA



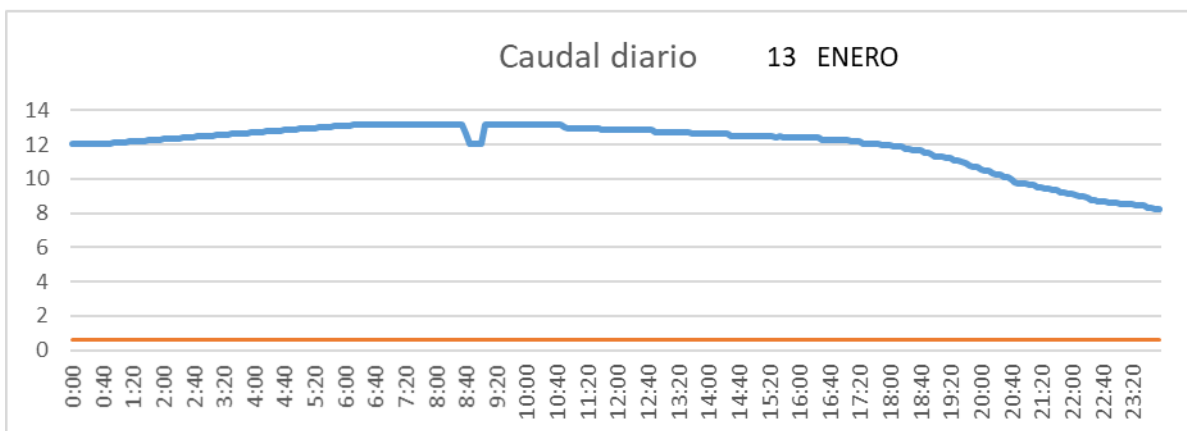
SALIDA TOBA



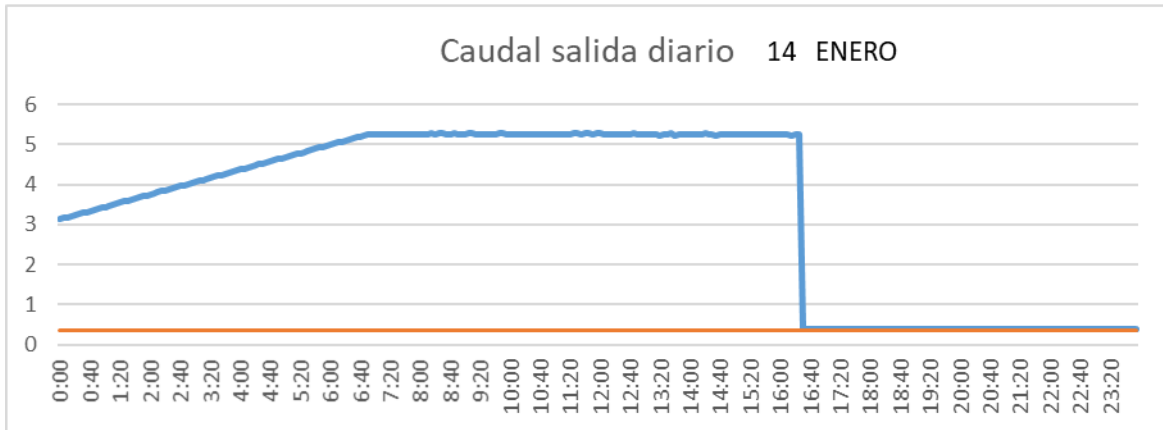
CUENCA



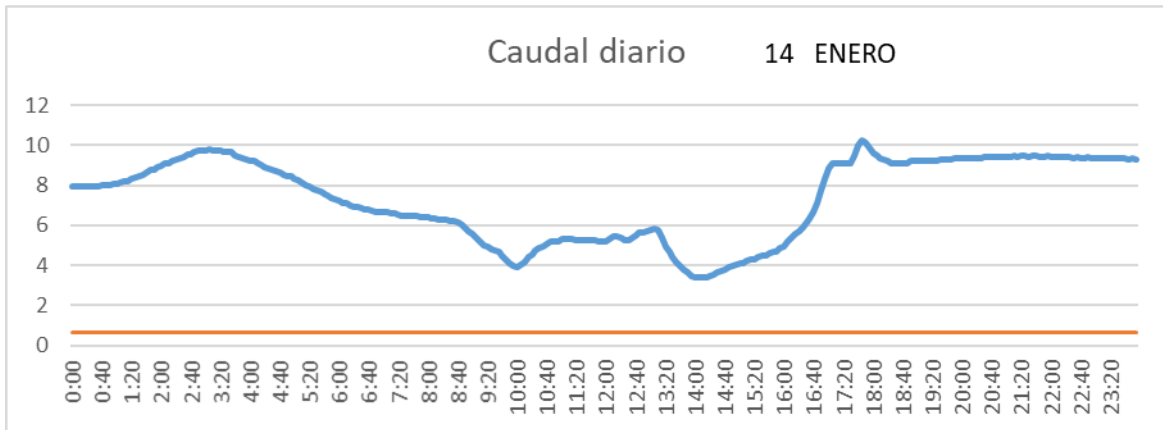
SAN LORENZO PARRILLA



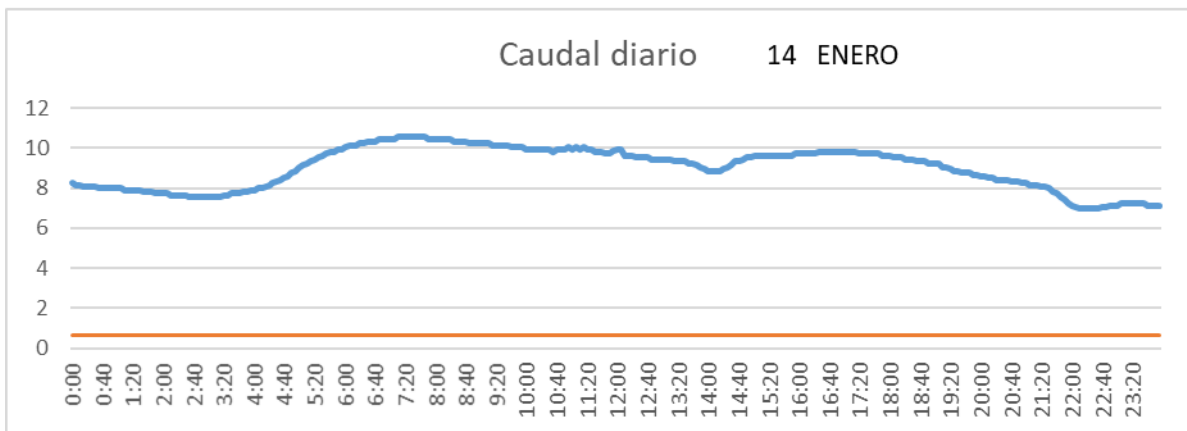
SALIDA TOBA



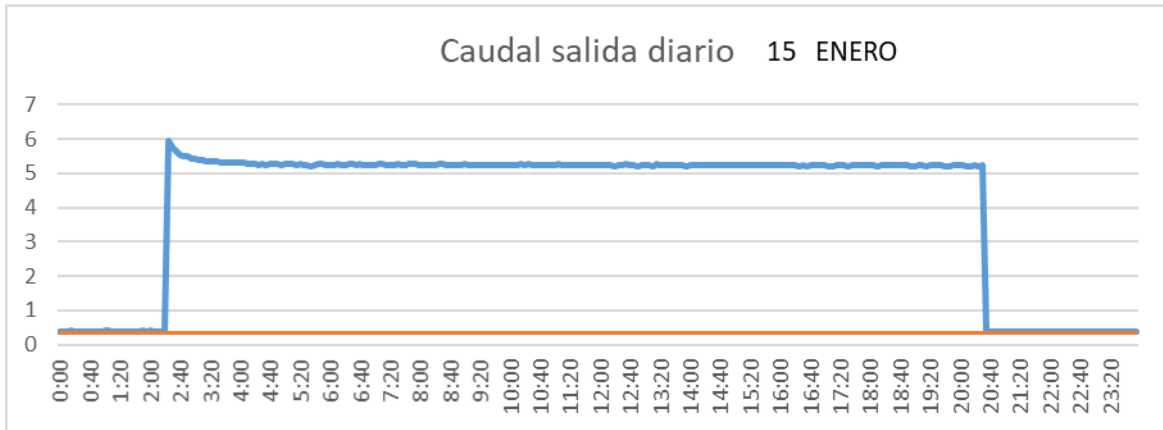
CUENCA



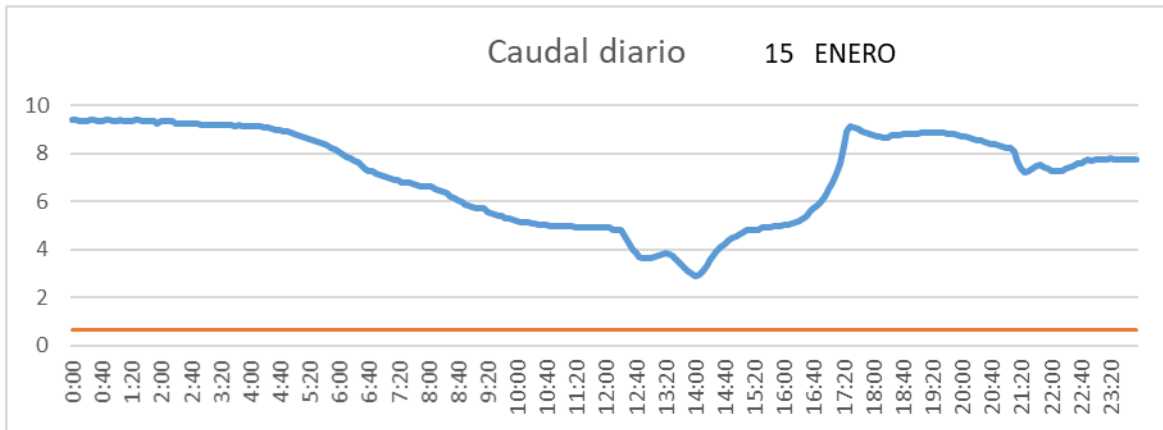
SAN LORENZO PARRILLA



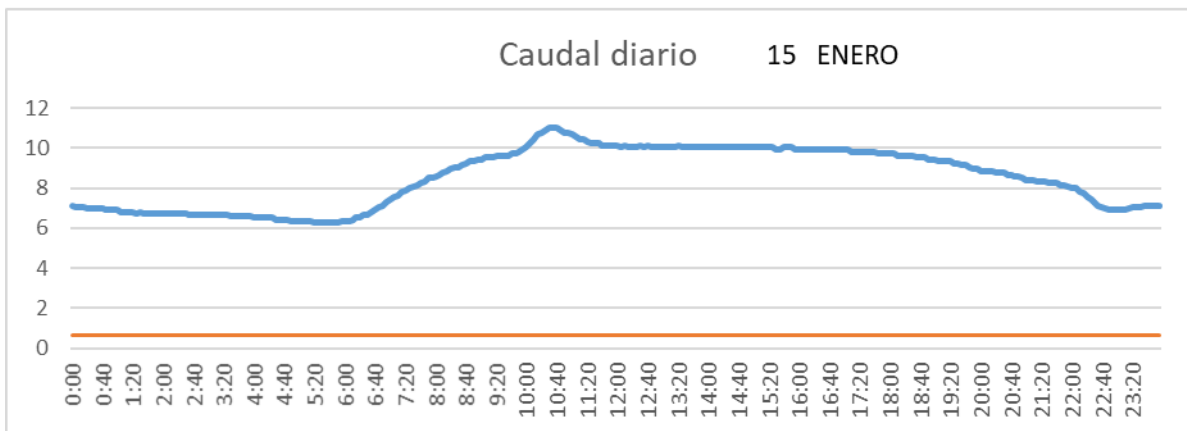
SALIDA TOBA



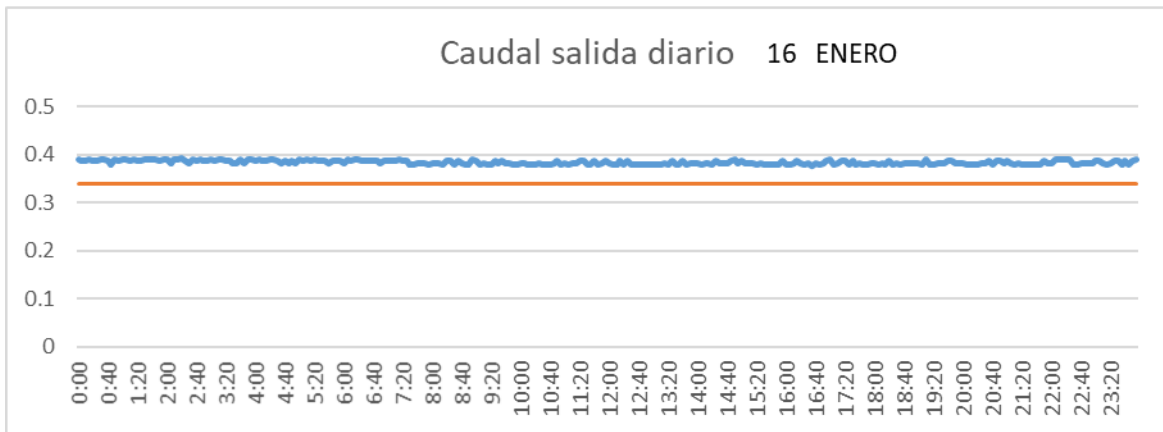
CUENCA



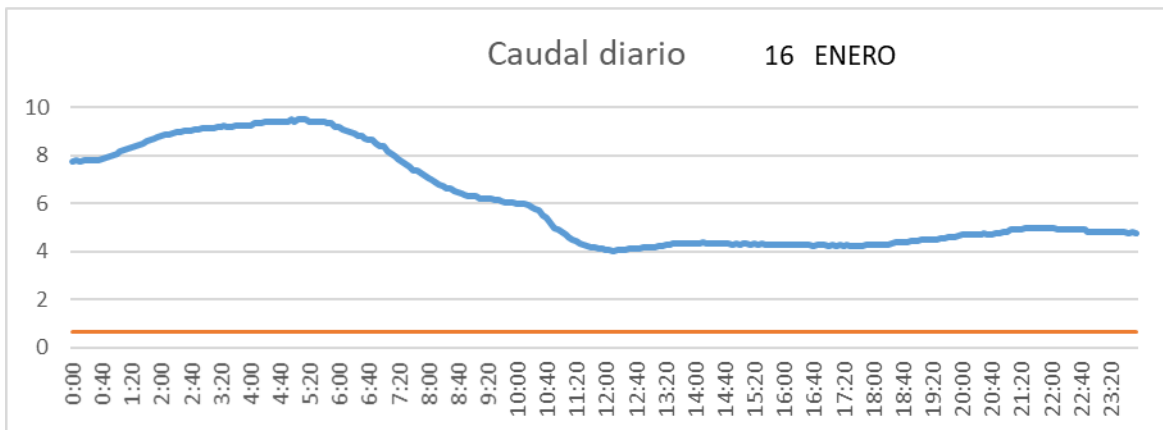
SAN LORENZO PARRILLA



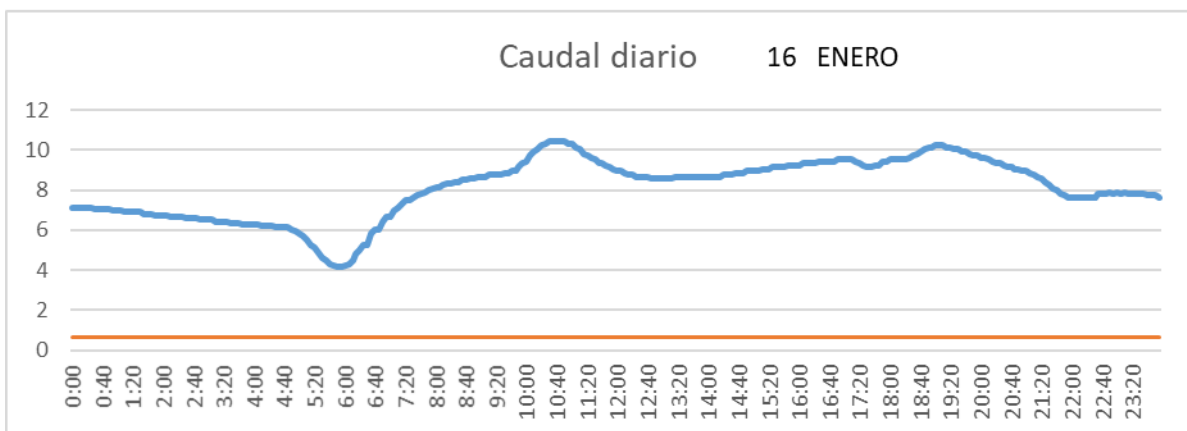
SALIDA TOBA



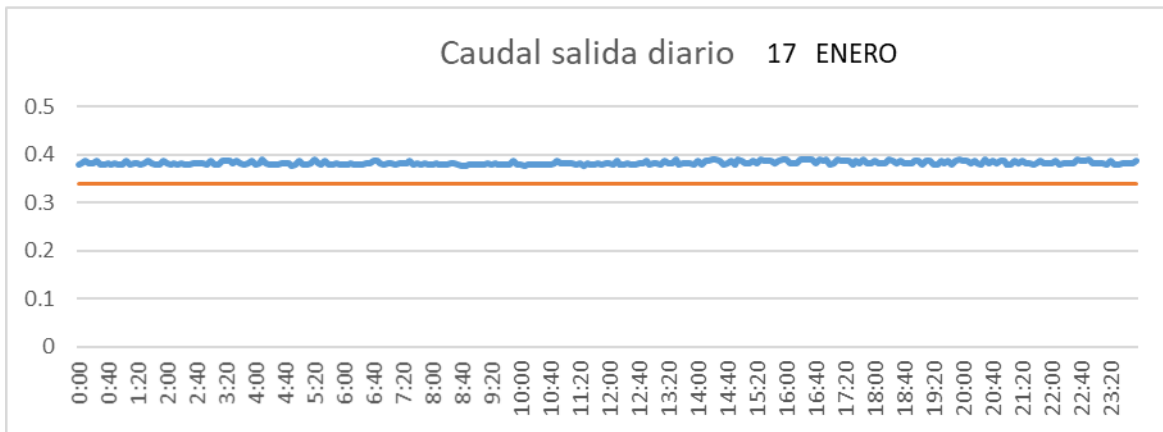
CUENCA



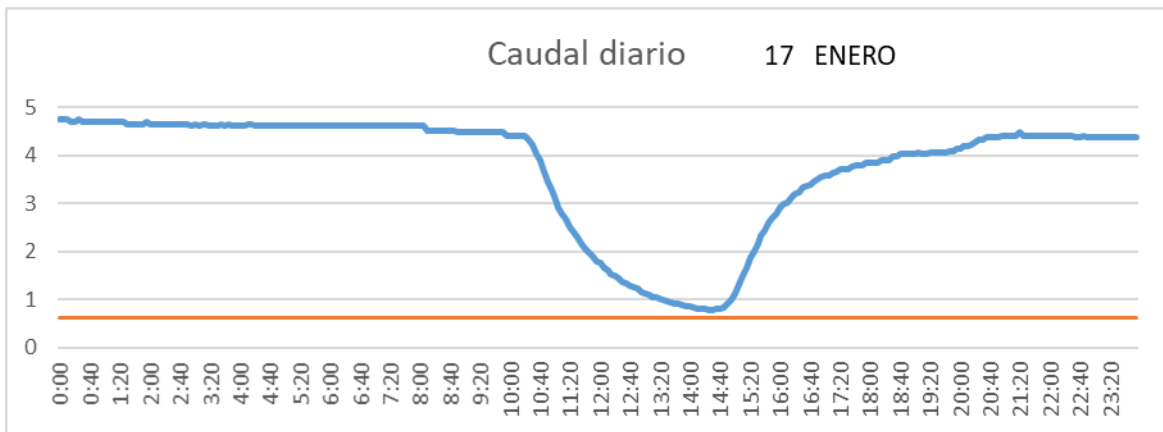
SAN LORENZO PARRILLA



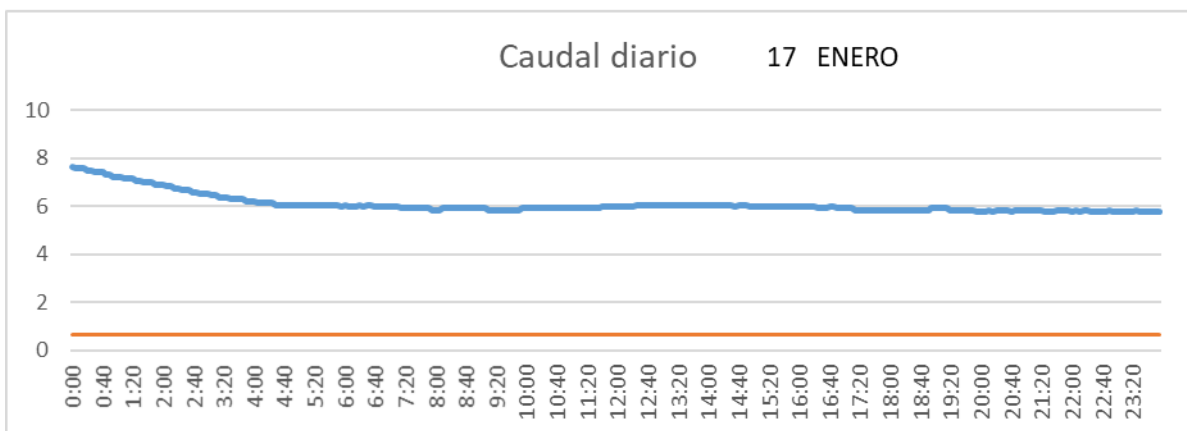
SALIDA TOBA



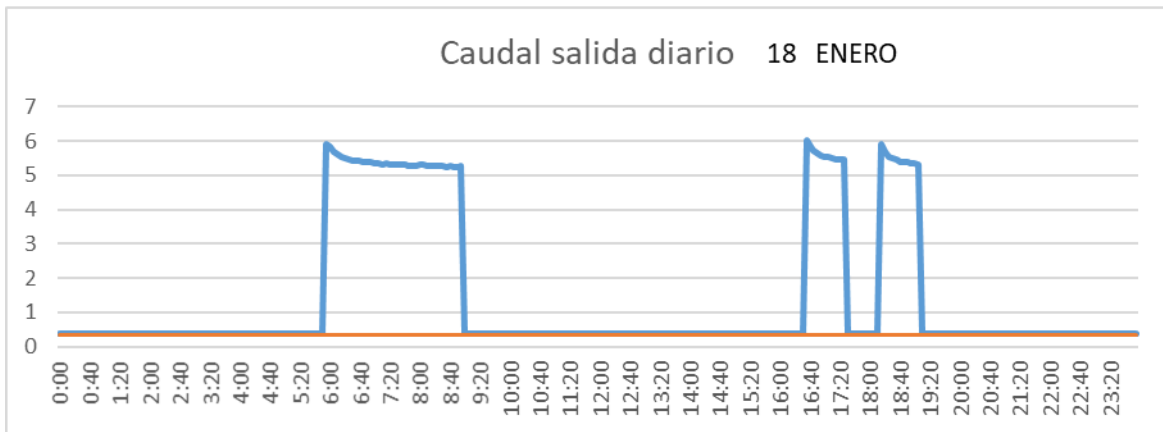
CUENCA



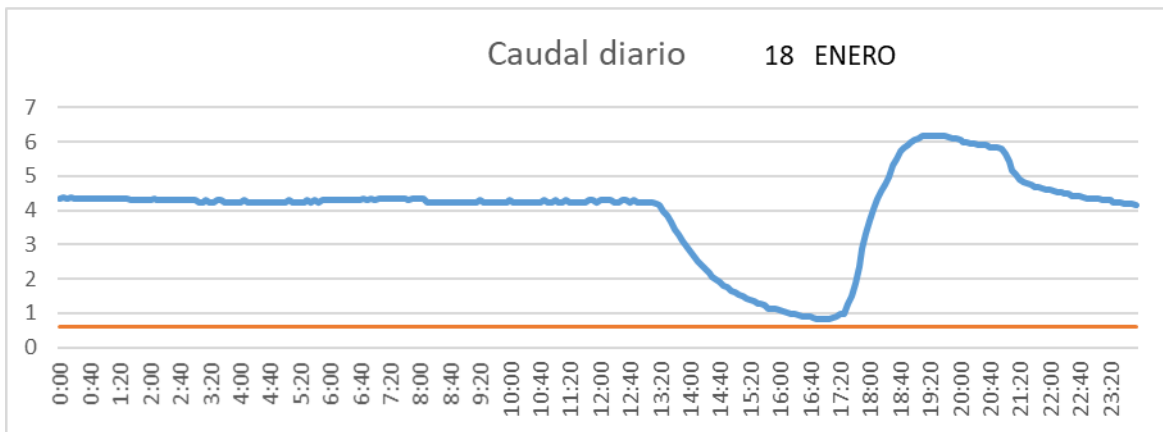
SAN LORENZO PARRILLA



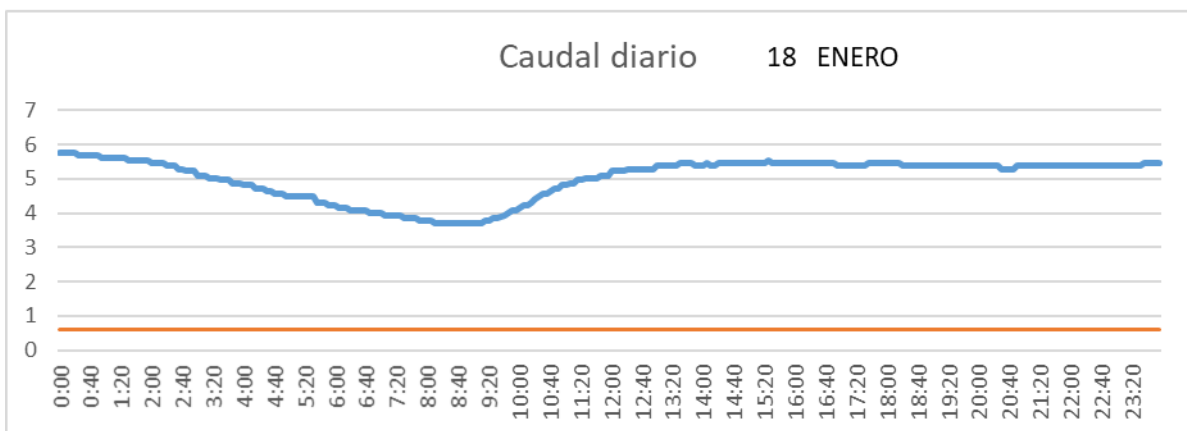
SALIDA TOBA



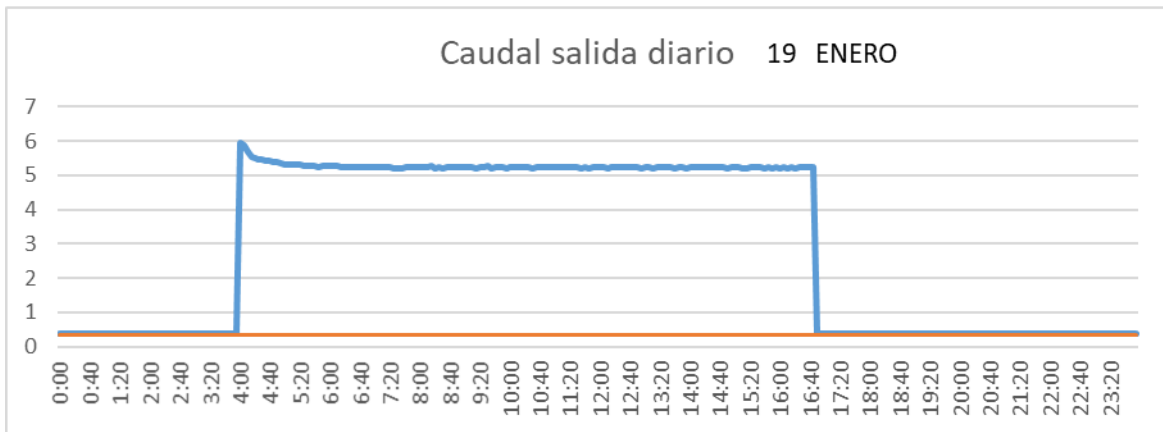
CUENCA



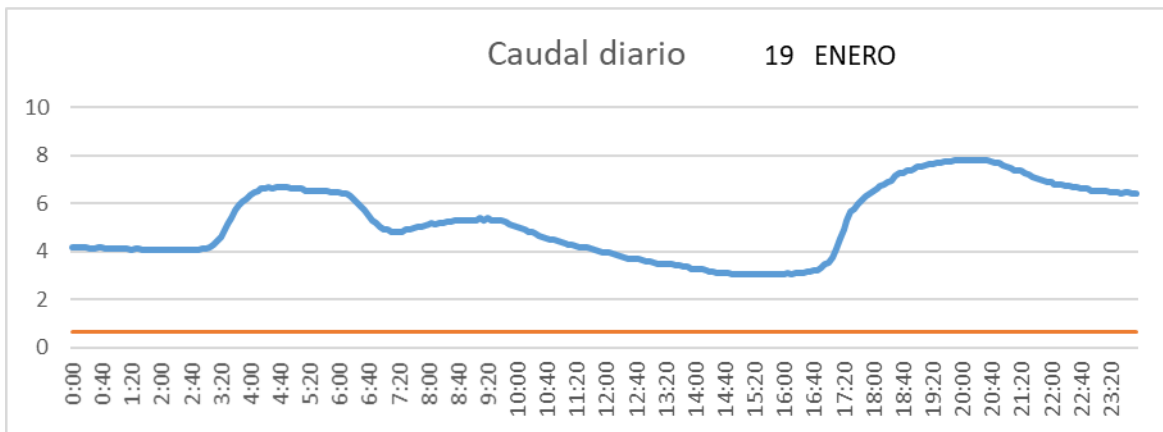
SAN LORENZO PARRILLA



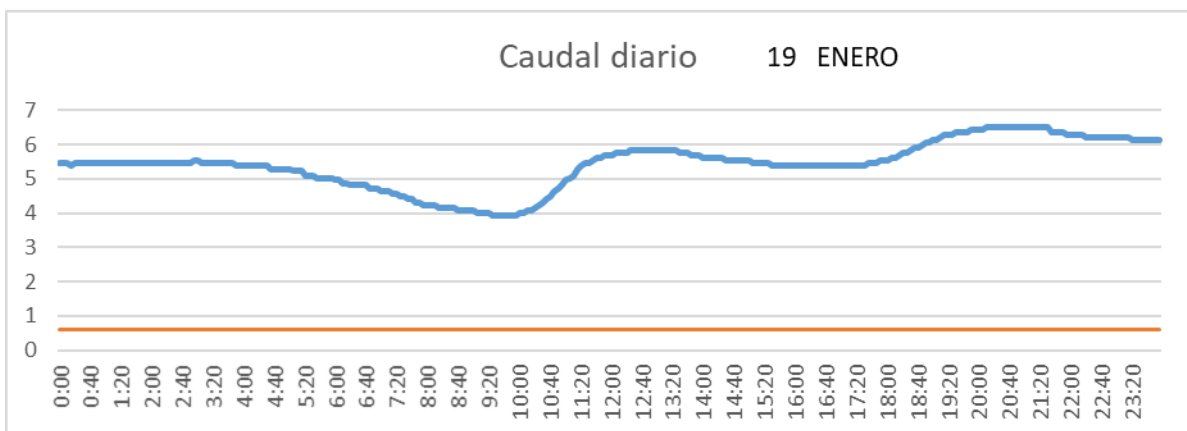
SALIDA TOBA



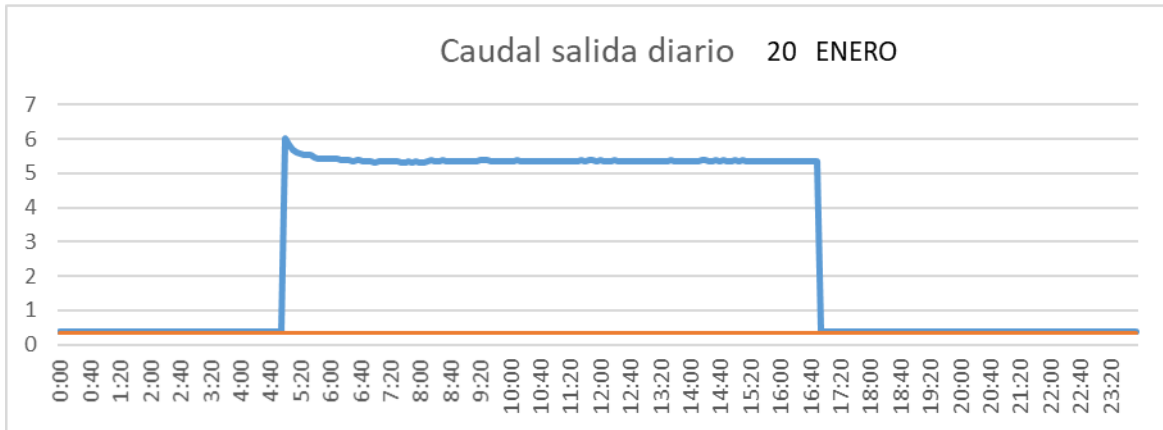
CUENCA



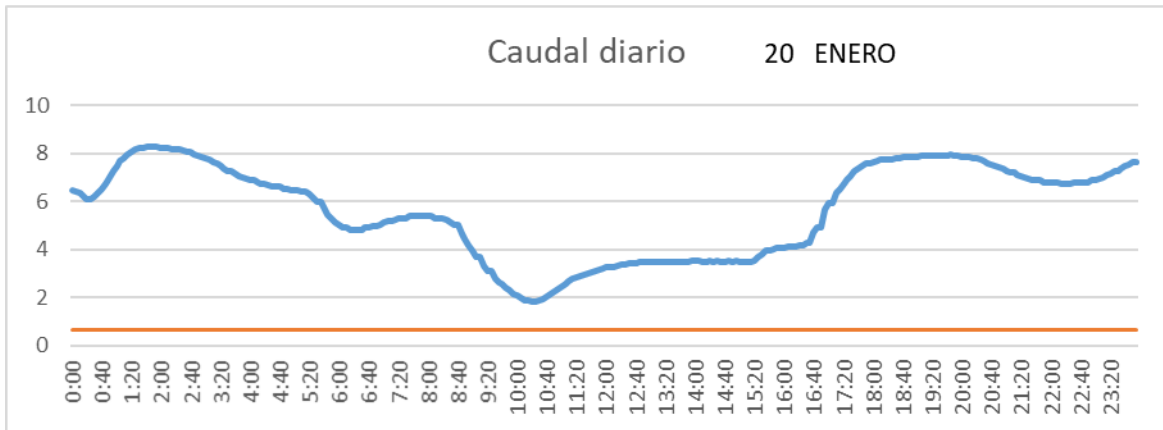
SAN LORENZO PARRILLA



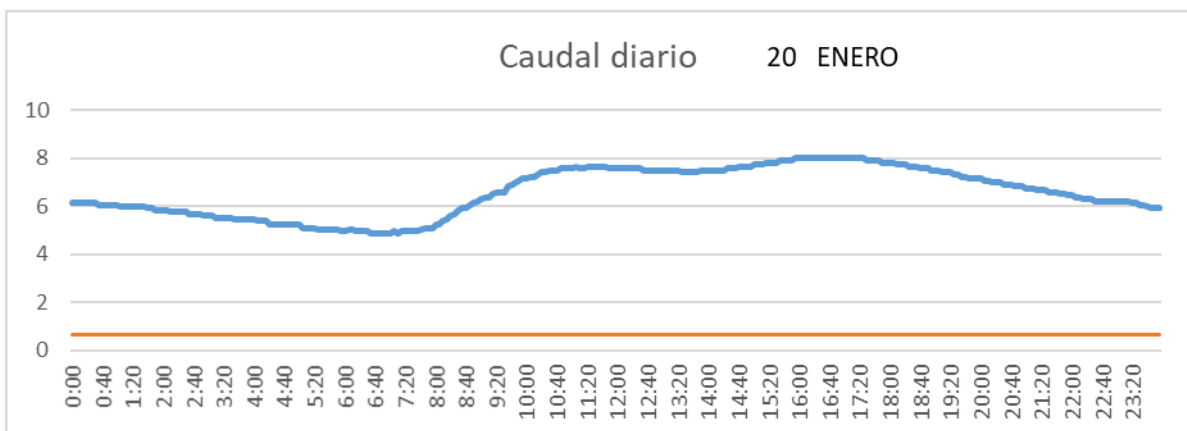
SALIDA TOBA



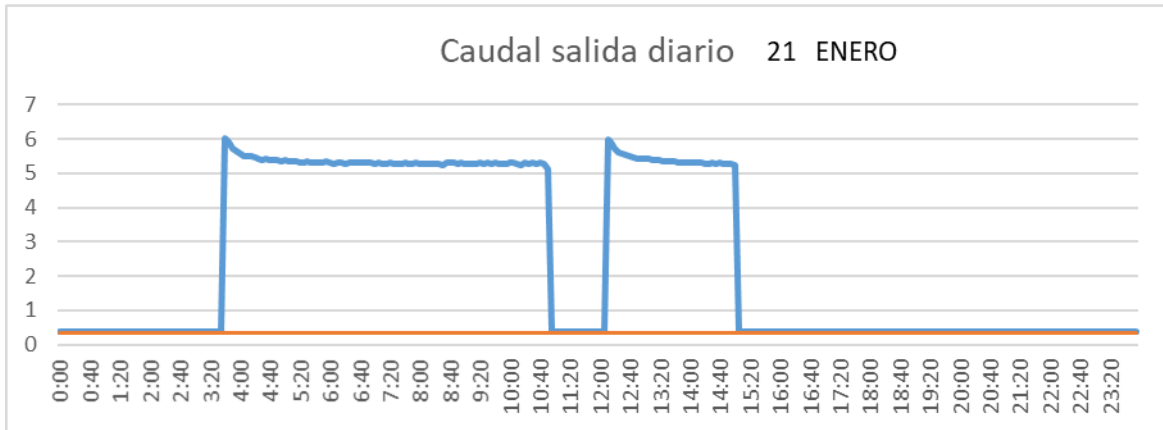
CUENCA



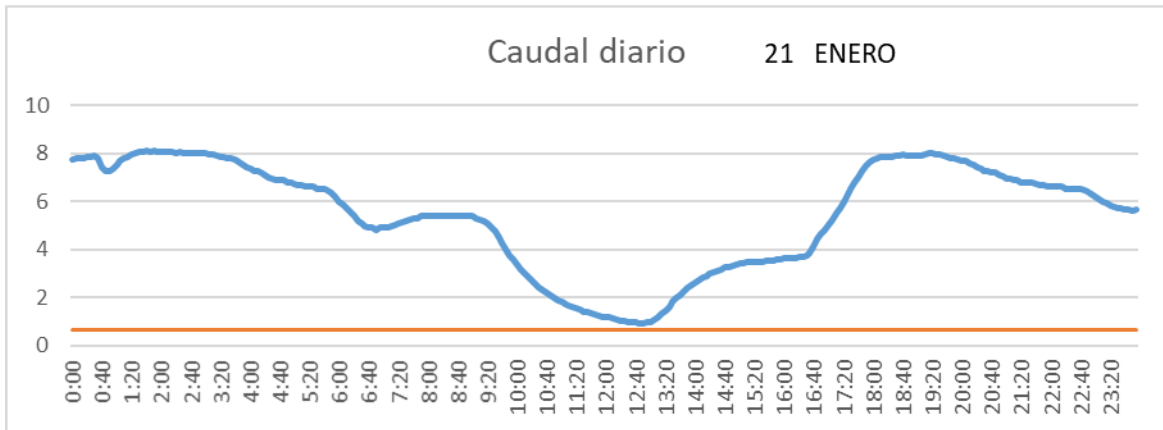
SAN LORENZO PARRILLA



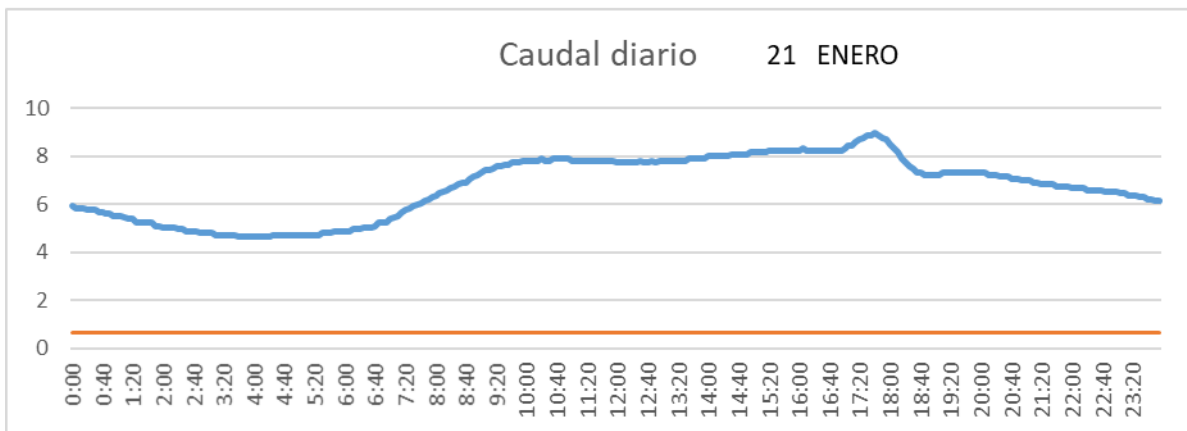
SALIDA TOBA



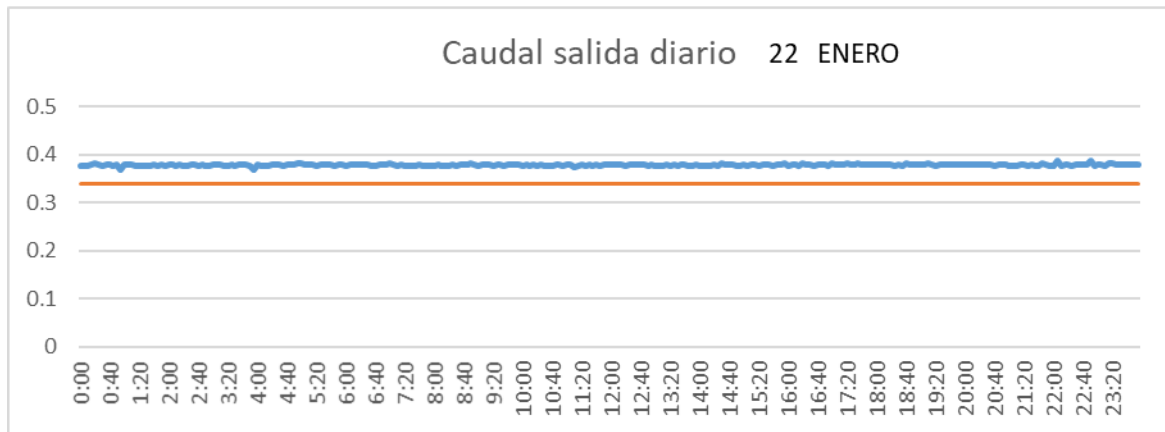
CUENCA



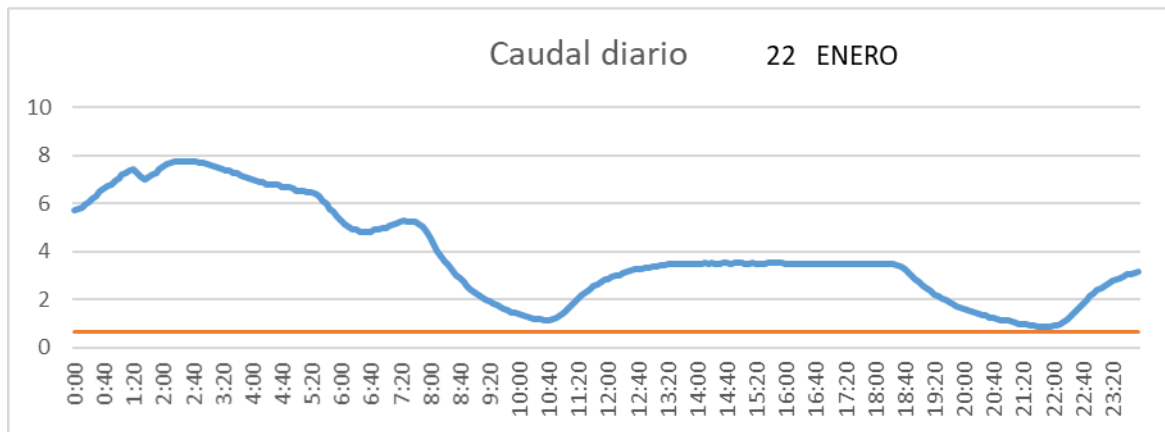
SAN LORENZO PARRILLA



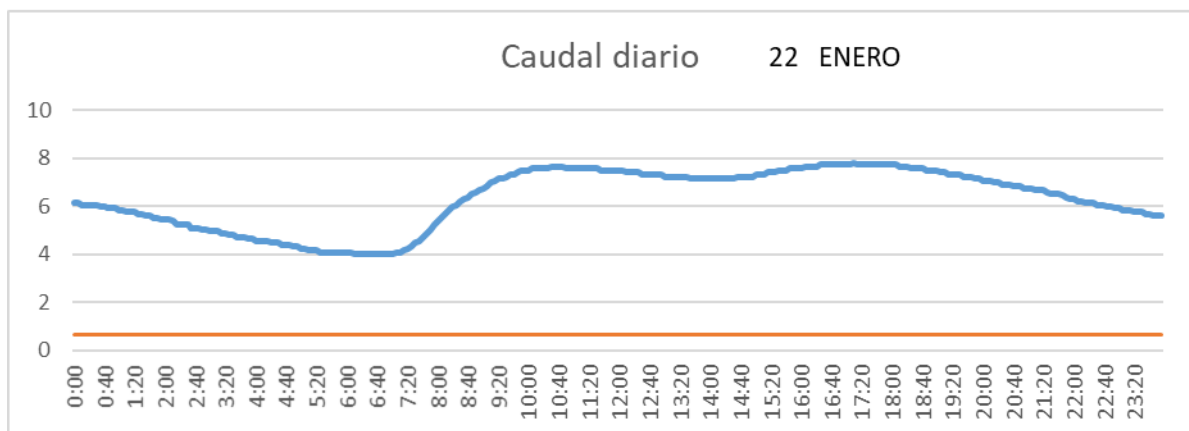
SALIDA TOBA



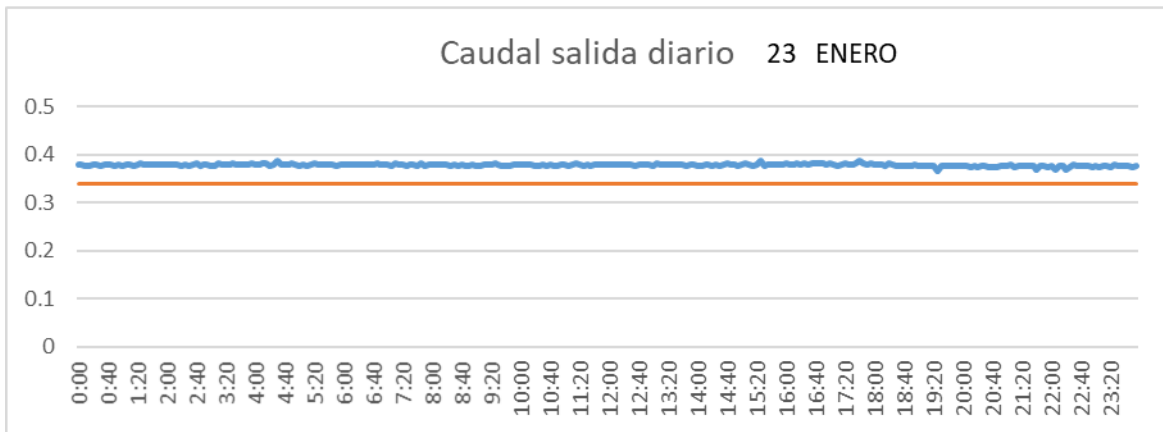
CUENCA



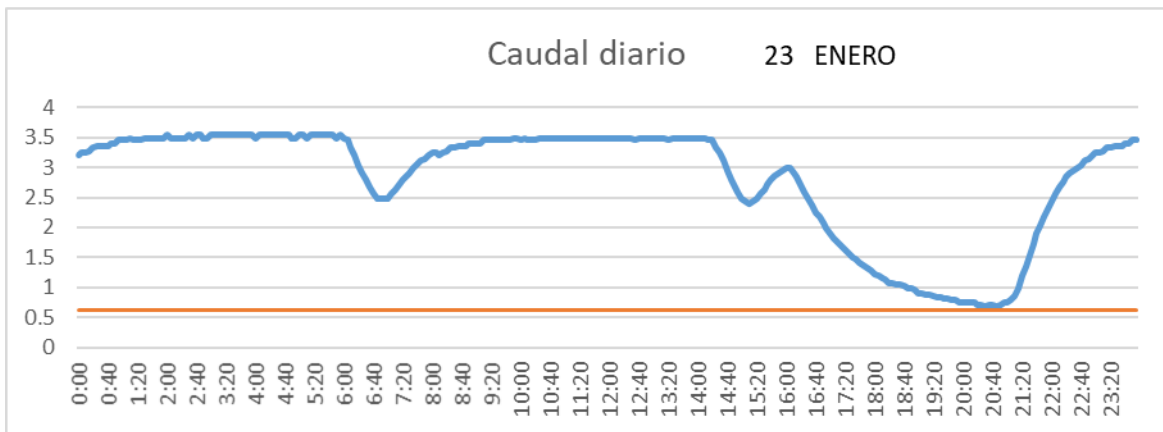
SAN LORENZO PARRILLA



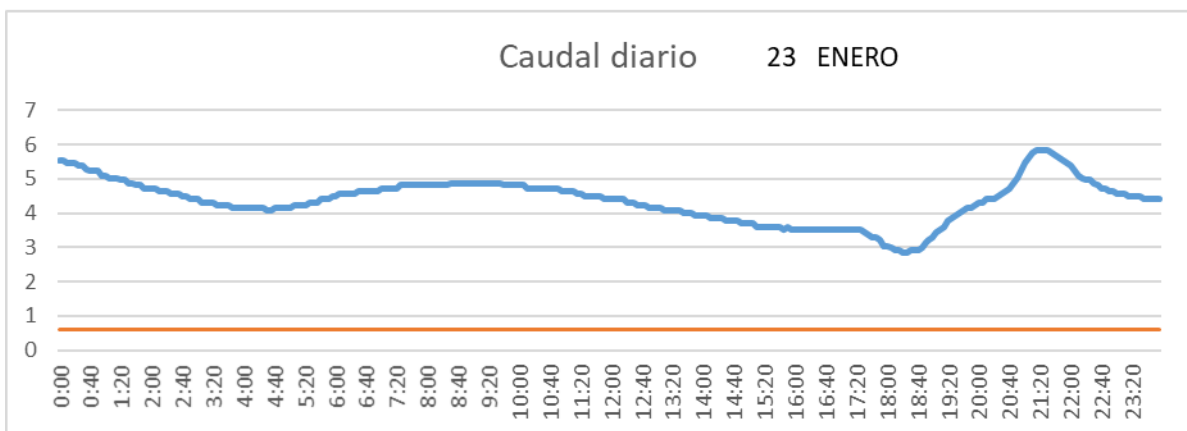
SALIDA TOBA



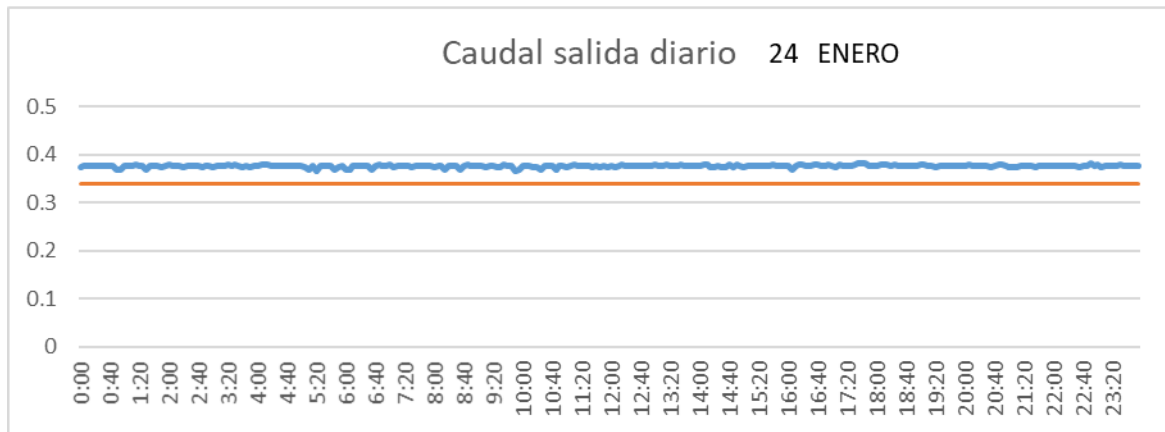
CUENCA



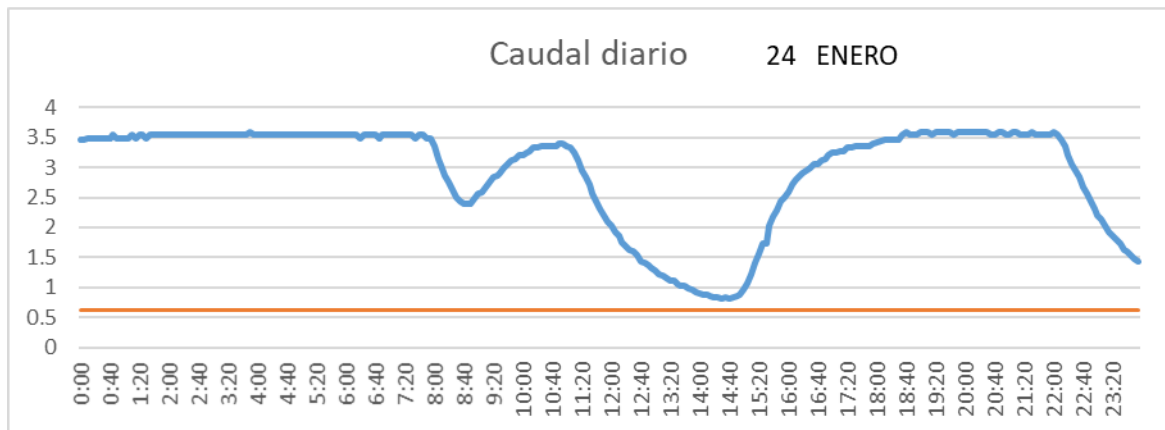
SAN LORENZO PARRILLA



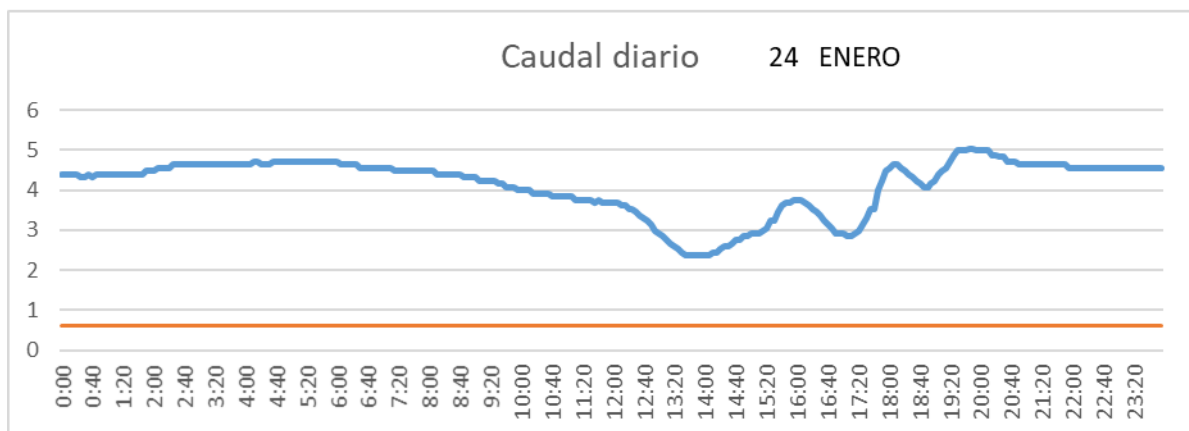
SALIDA TOBA



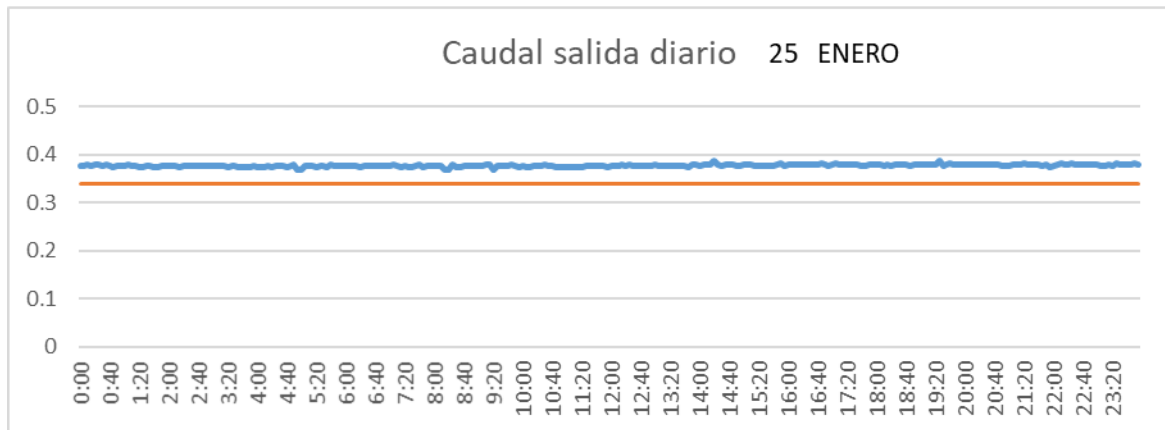
CUENCA



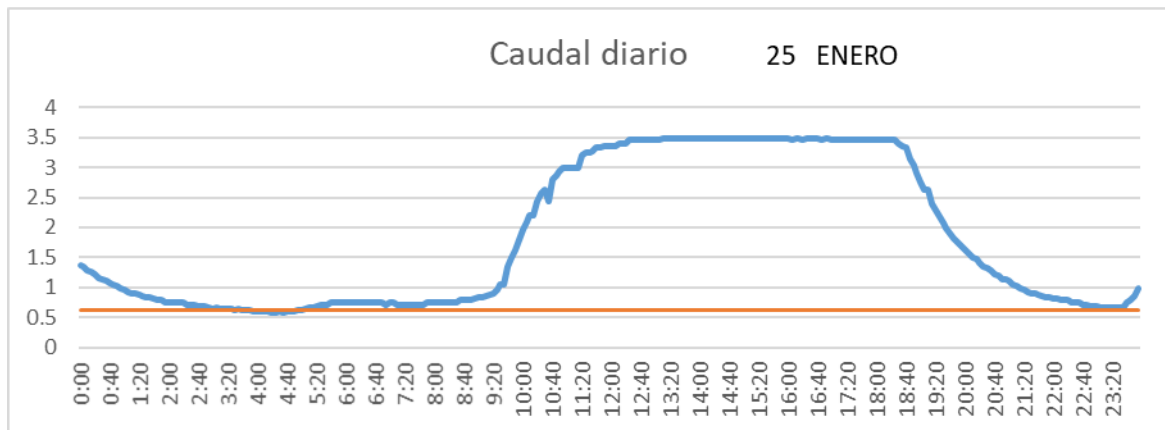
SAN LORENZO PARRILLA



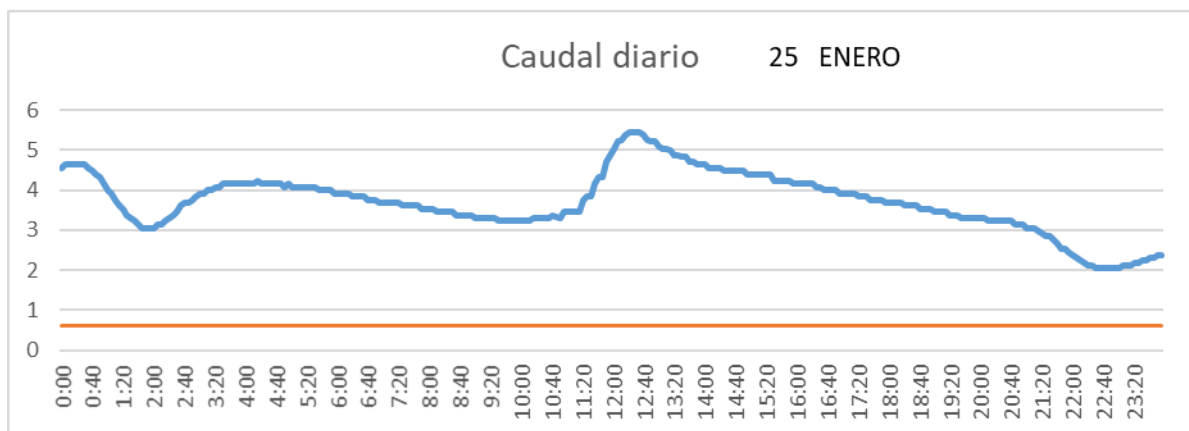
SALIDA TOBA



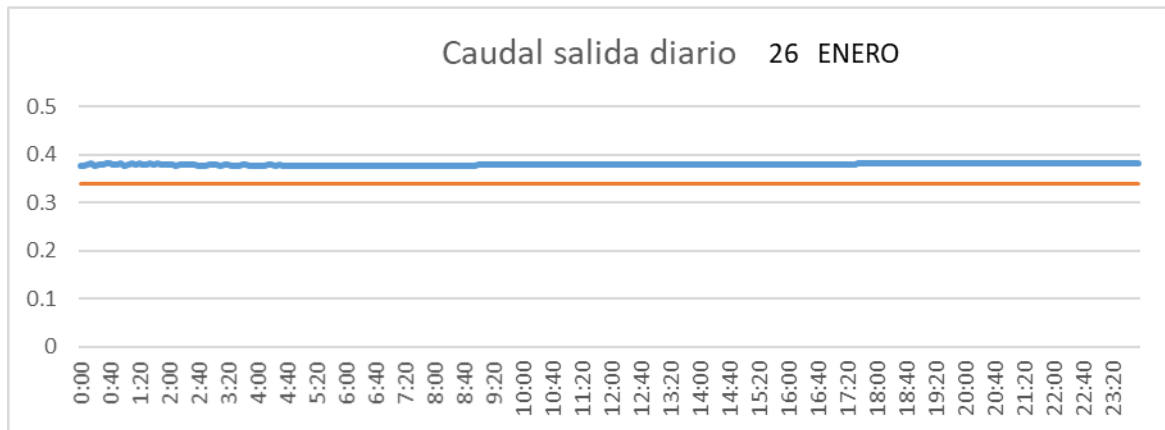
CUENCA



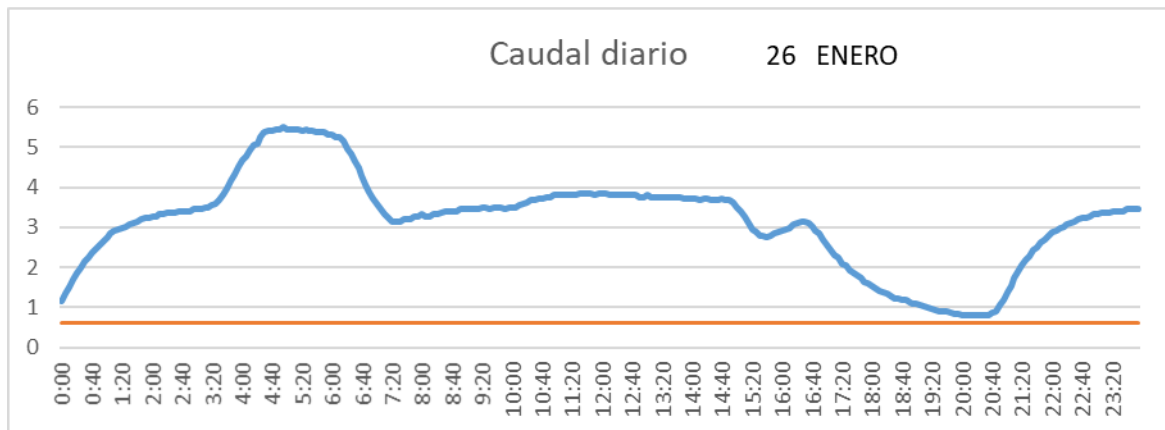
SAN LORENZO PARRILLA



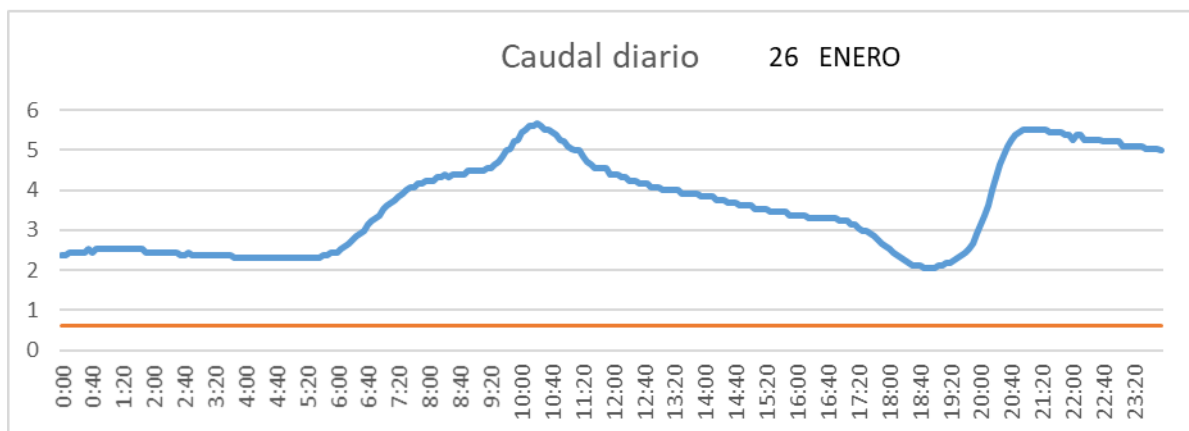
SALIDA TOBA



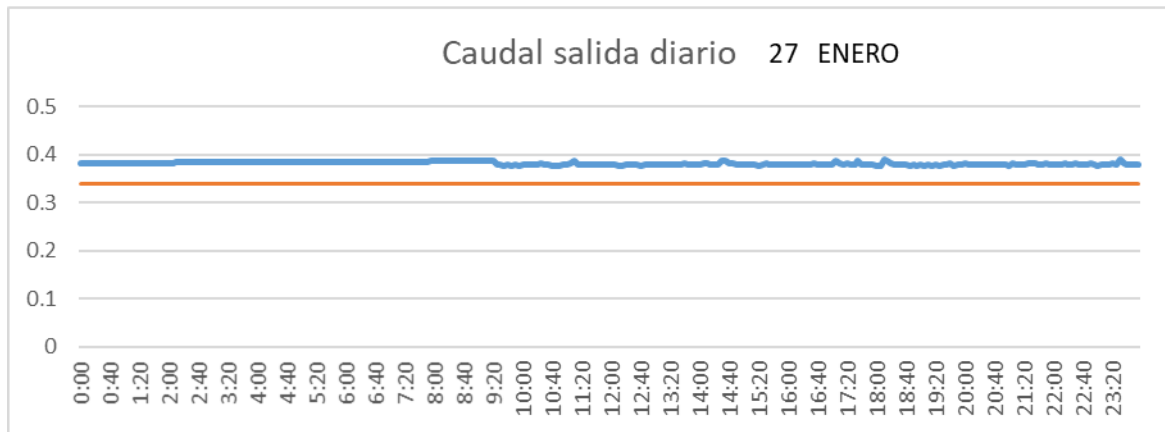
CUENCA



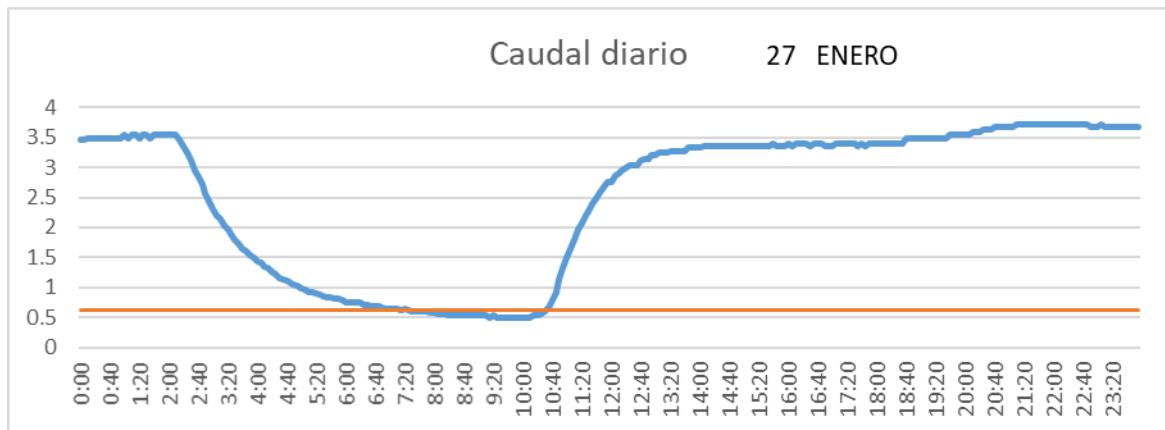
SAN LORENZO PARRILLA



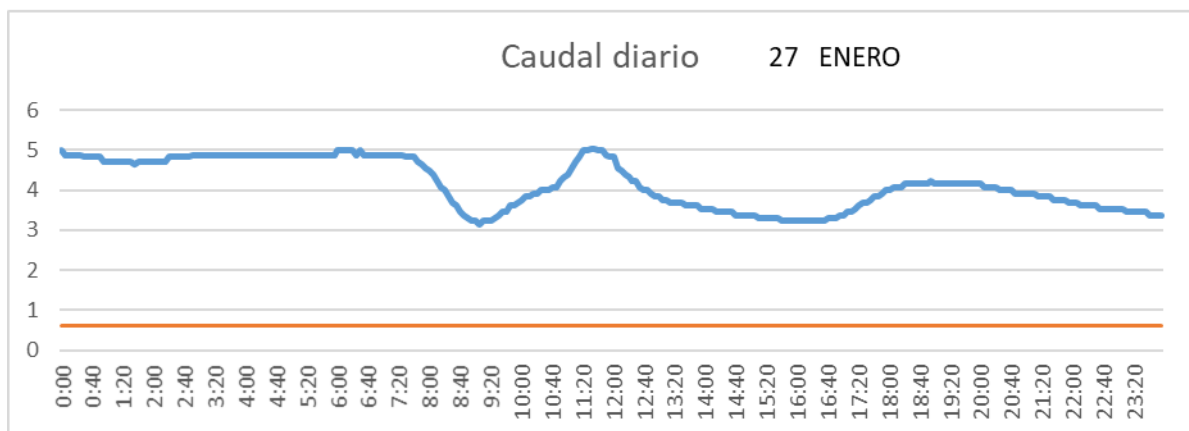
SALIDA TOBA



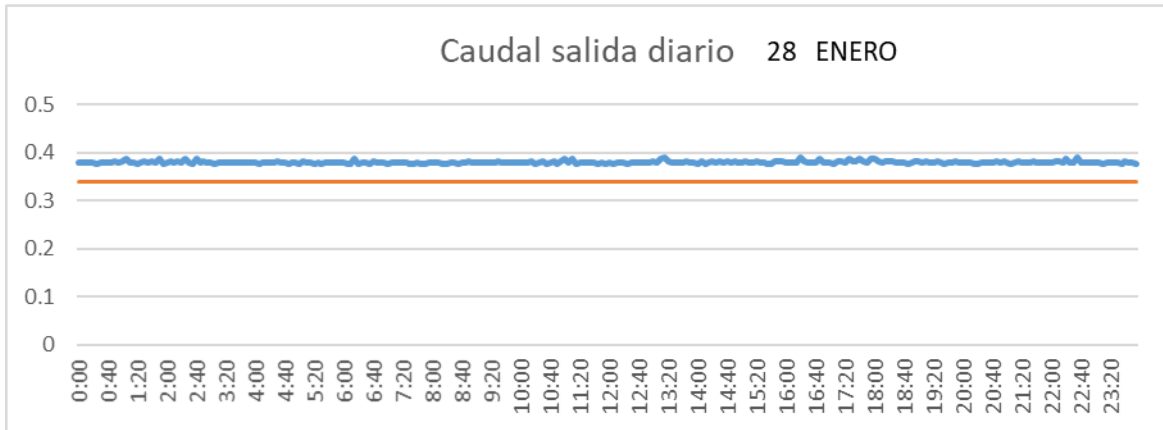
CUENCA



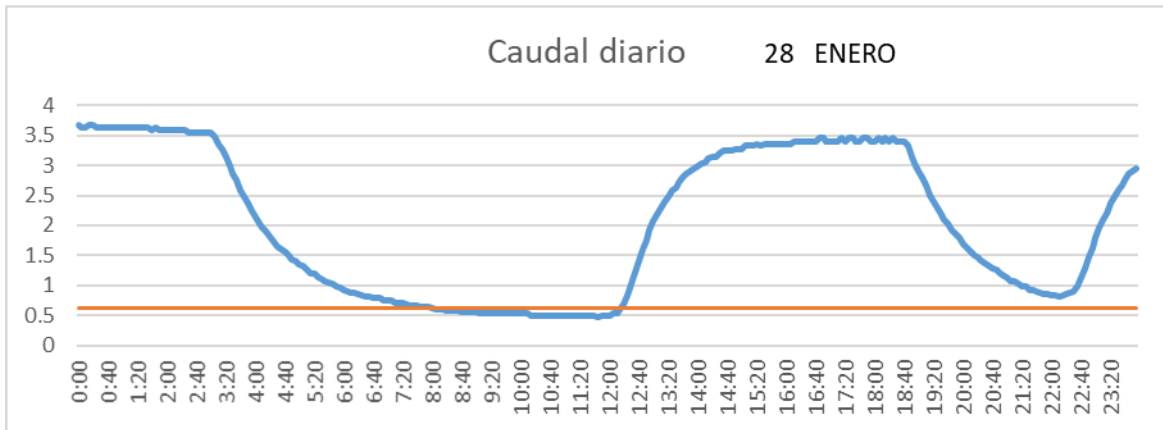
SAN LORENZO PARRILLA



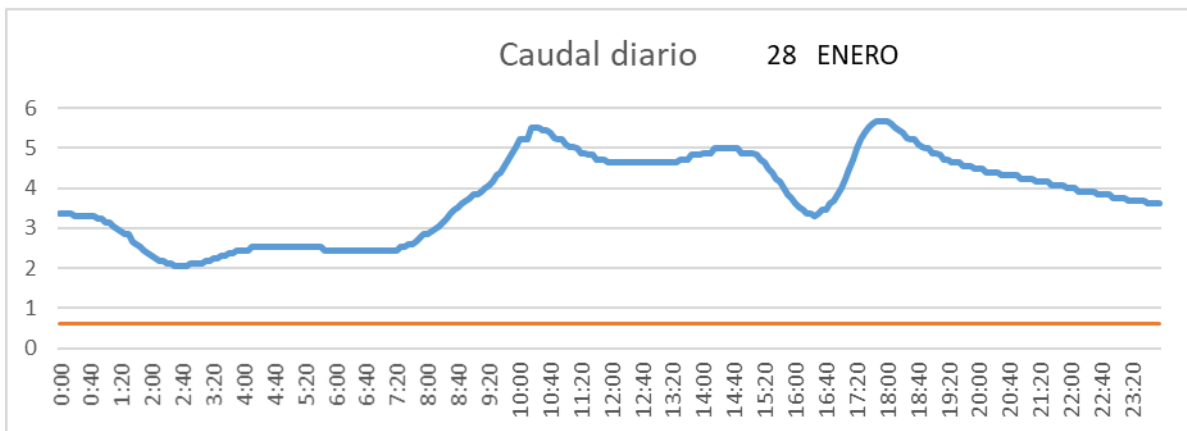
SALIDA TOBA



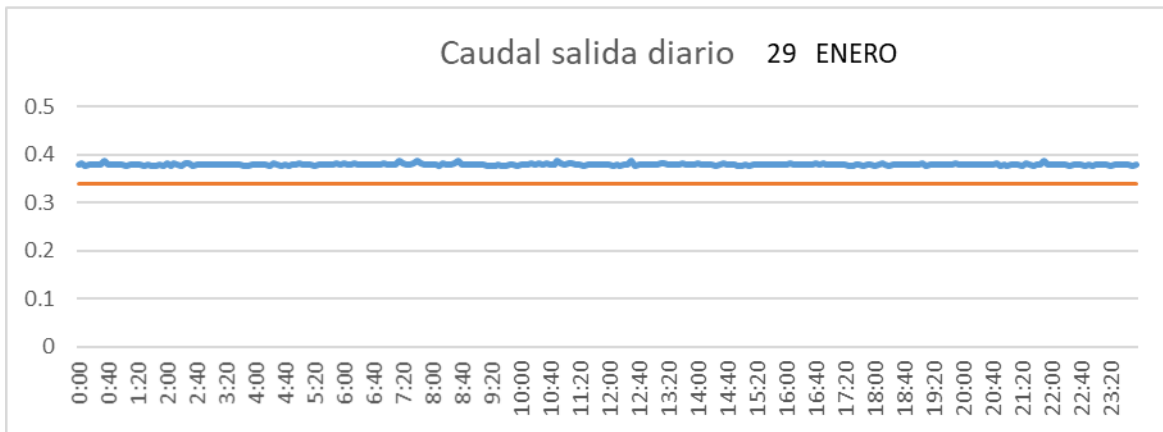
CUENCA



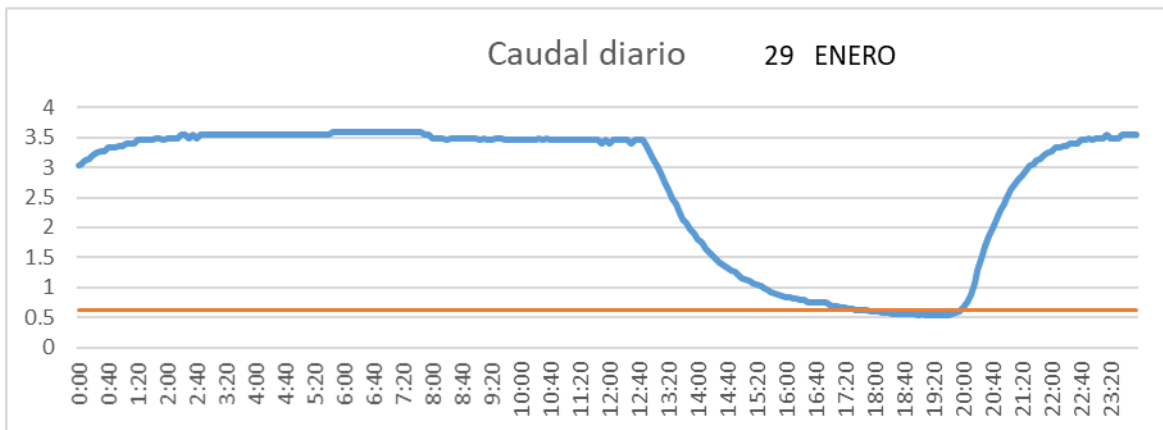
SAN LORENZO PARRILLA



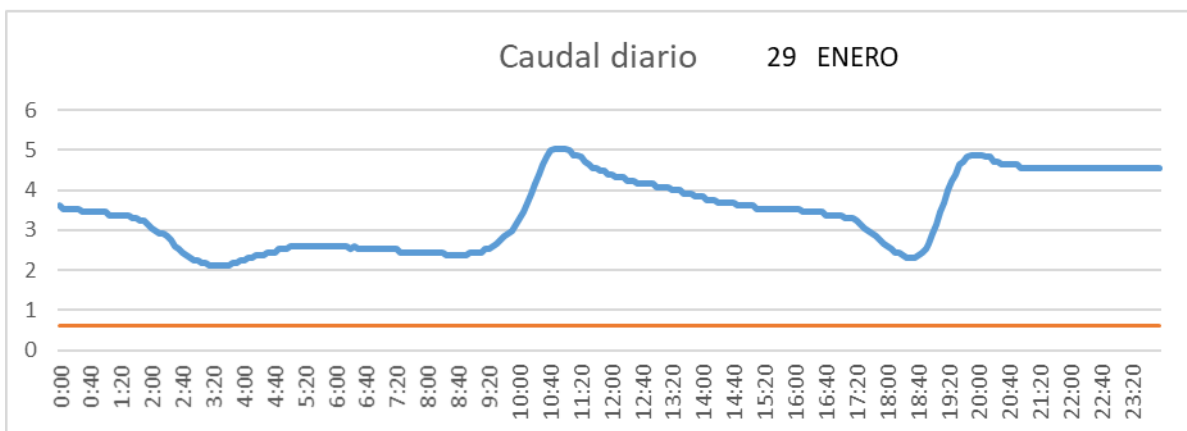
SALIDA TOBA



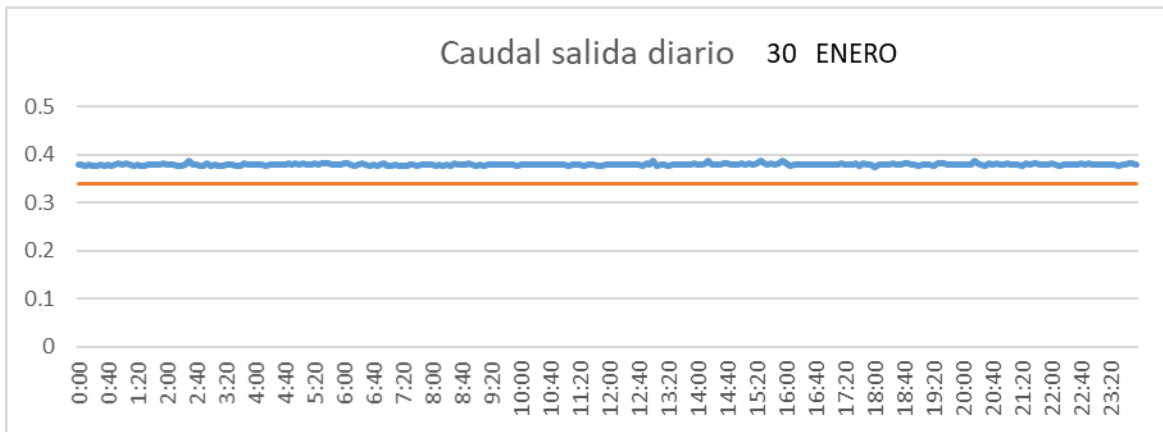
CUENCA



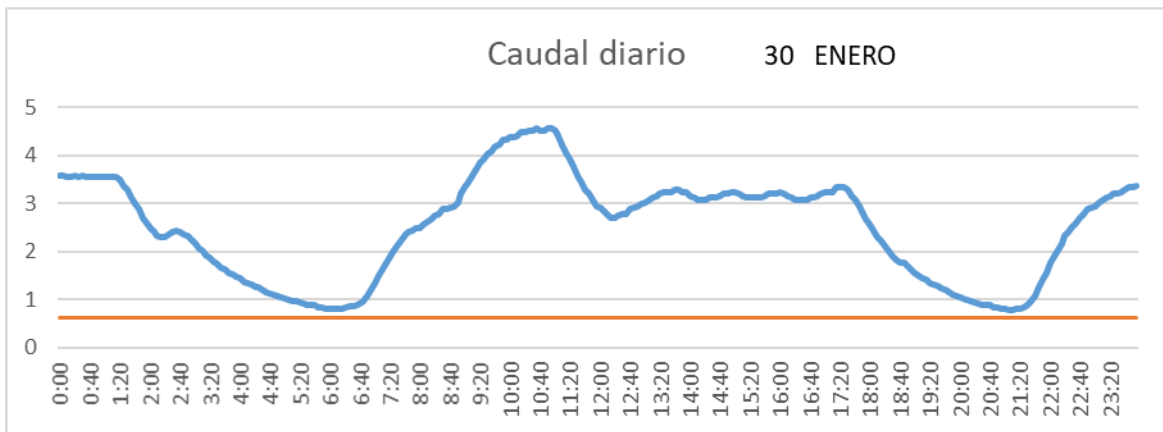
SAN LORENZO PARRILLA



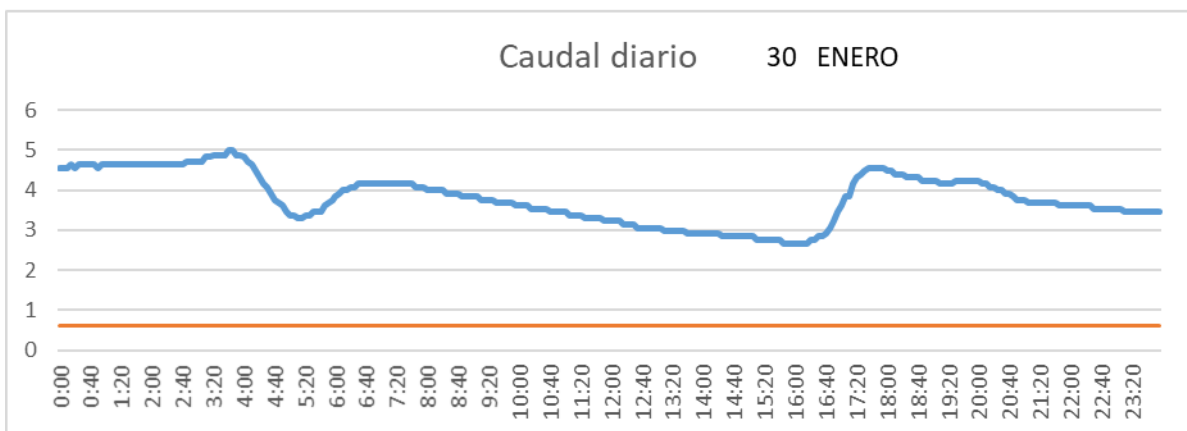
SALIDA TOBA



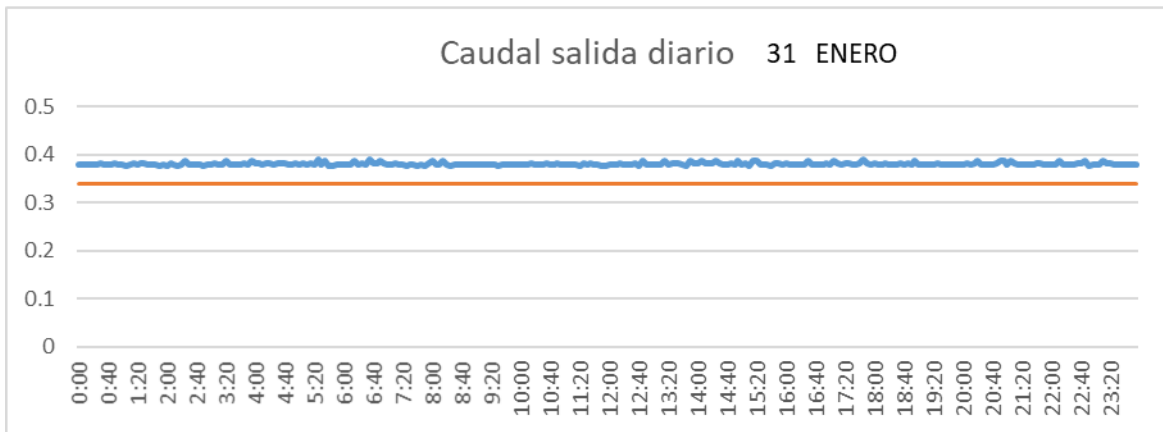
CUENCA



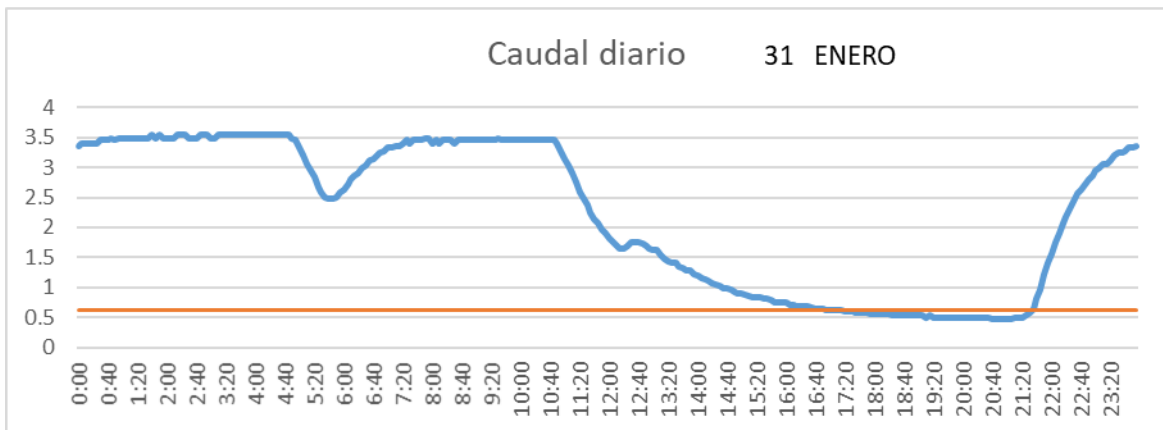
SAN LORENZO PARRILLA



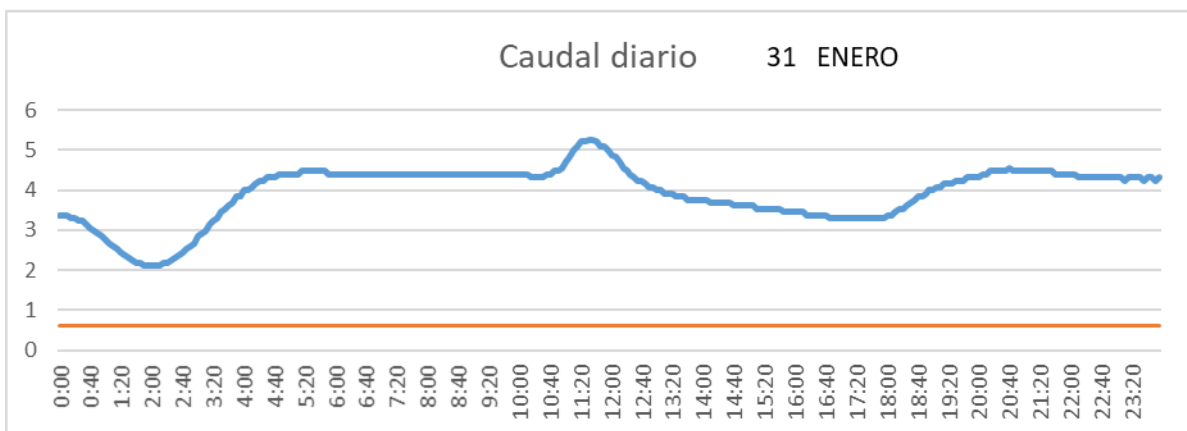
SALIDA TOBA



CUENCA

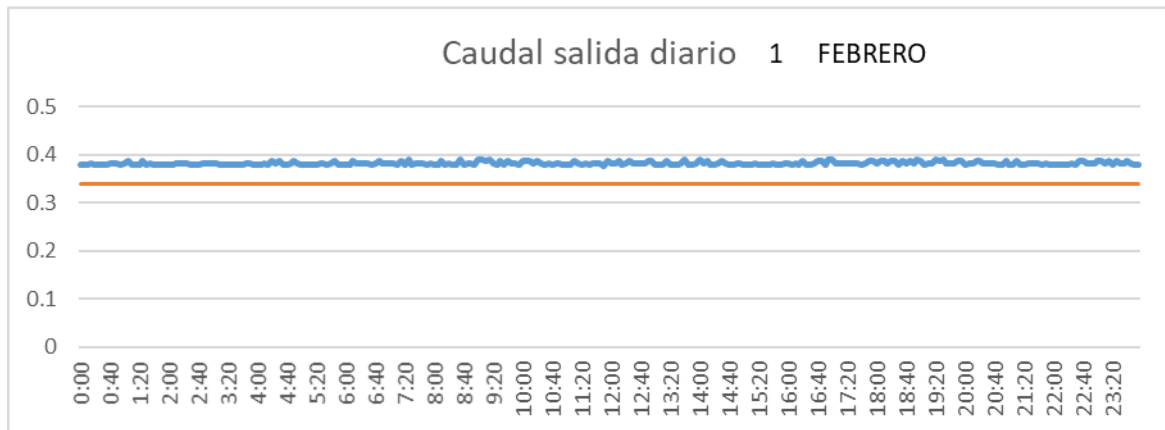


SAN LORENZO PARRILLA

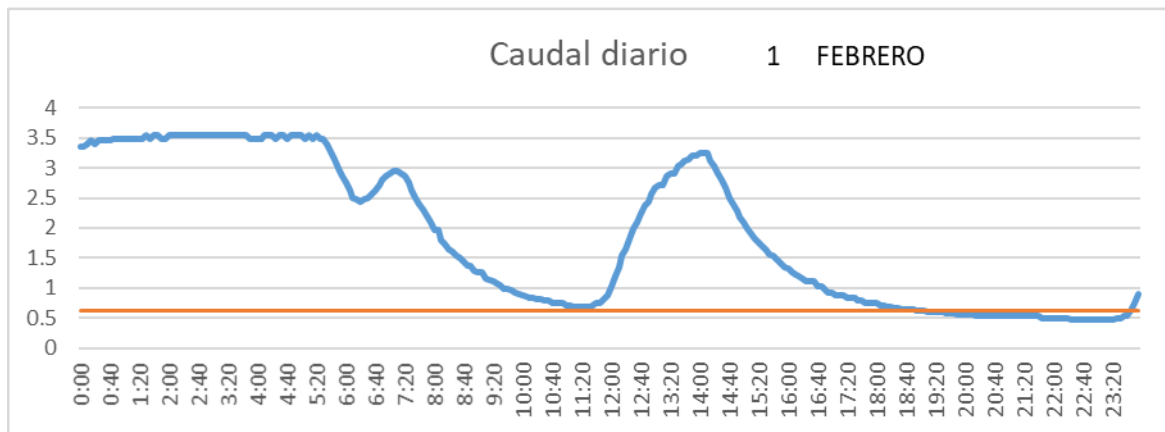


2.2.2 Febrero

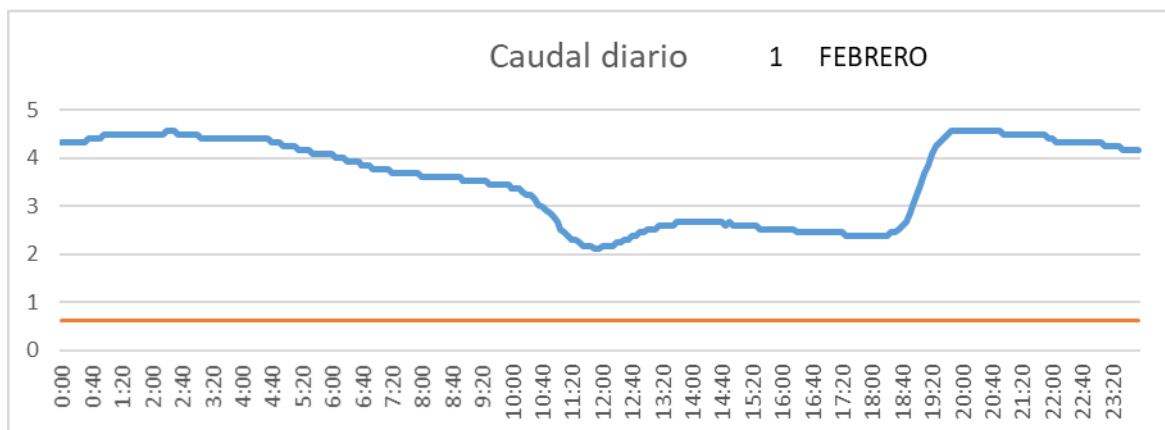
SALIDA TOBA



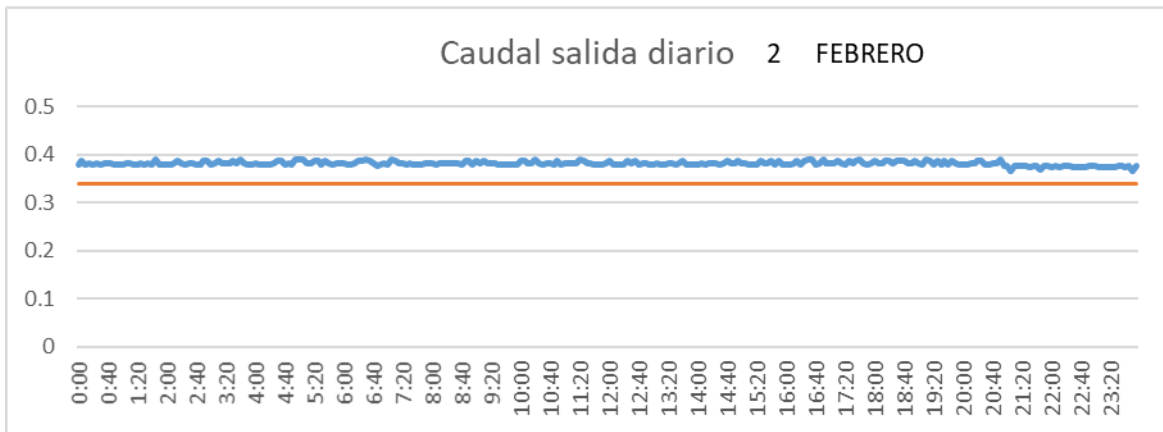
CUENCA



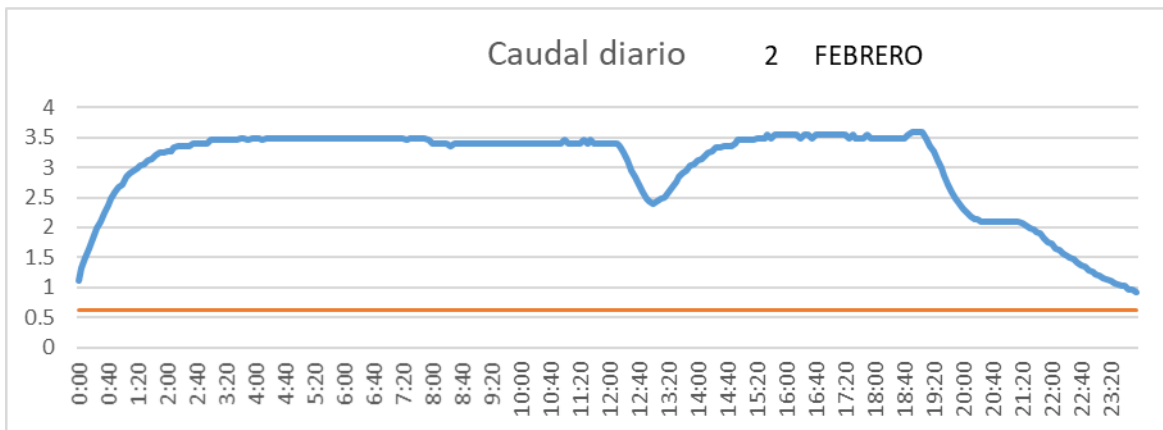
SAN LORENZO PARRILLA



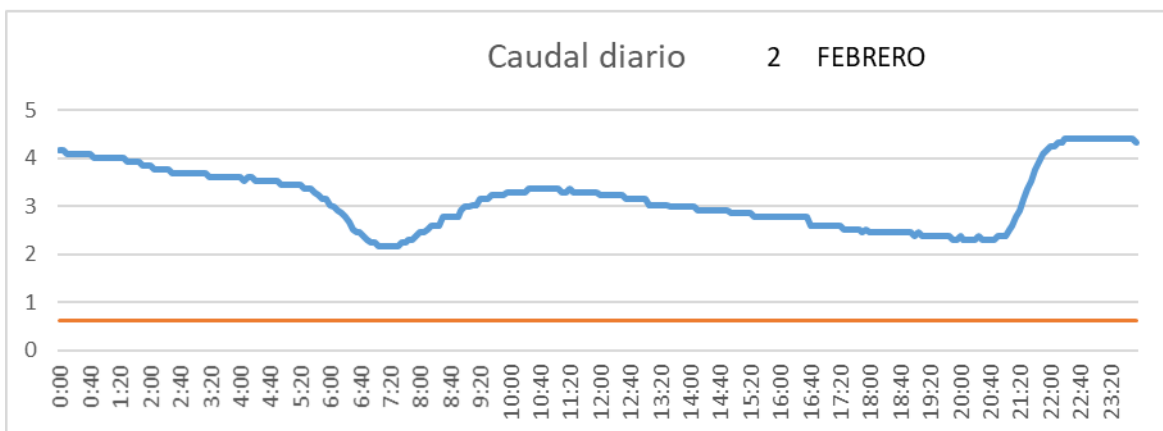
SALIDA TOBA



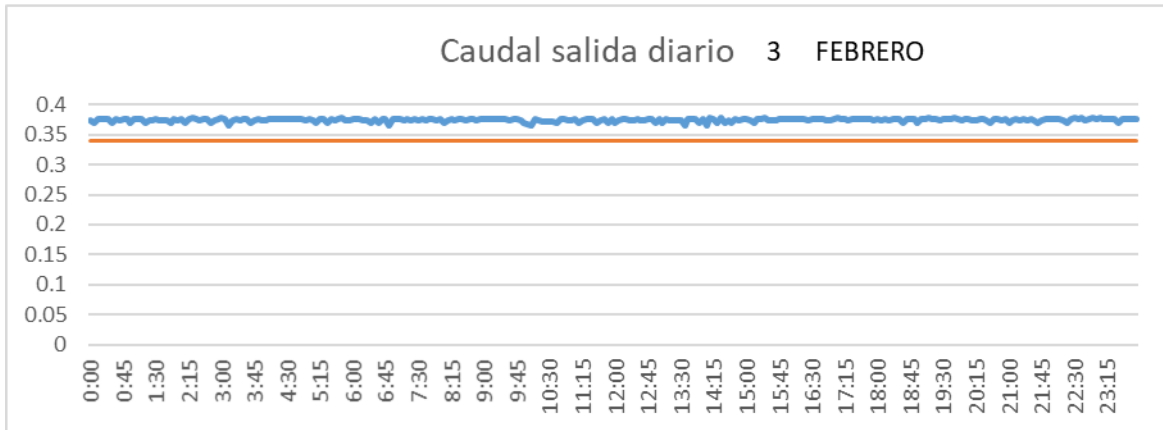
CUENCA



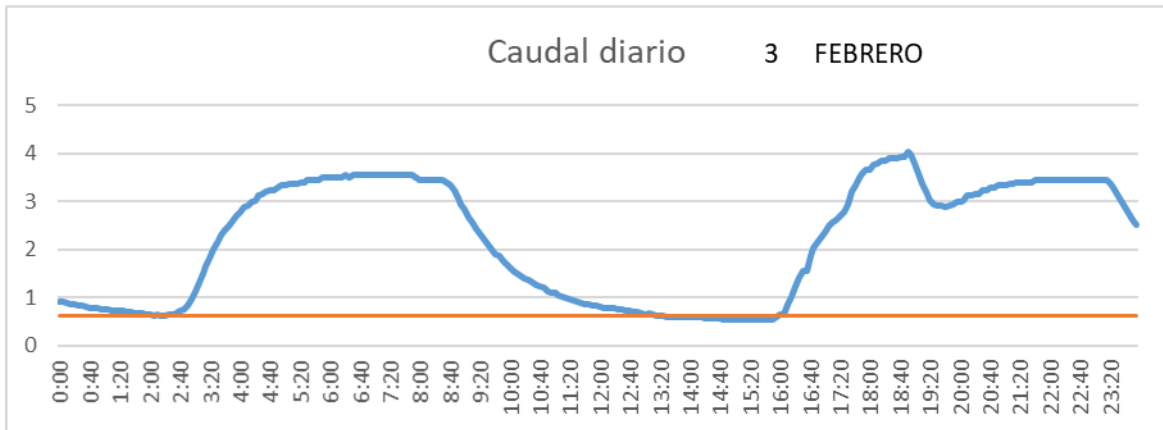
SAN LORENZO PARRILLA



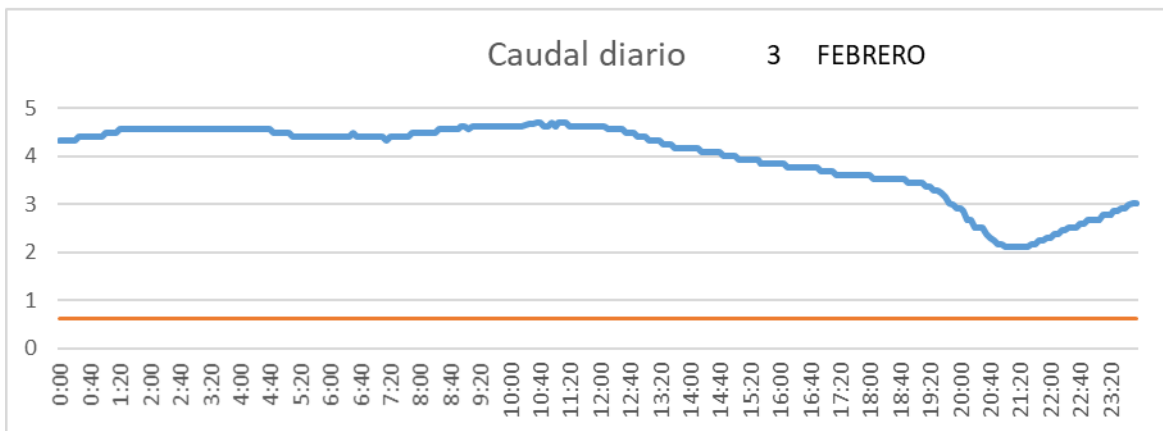
SALIDA TOBA



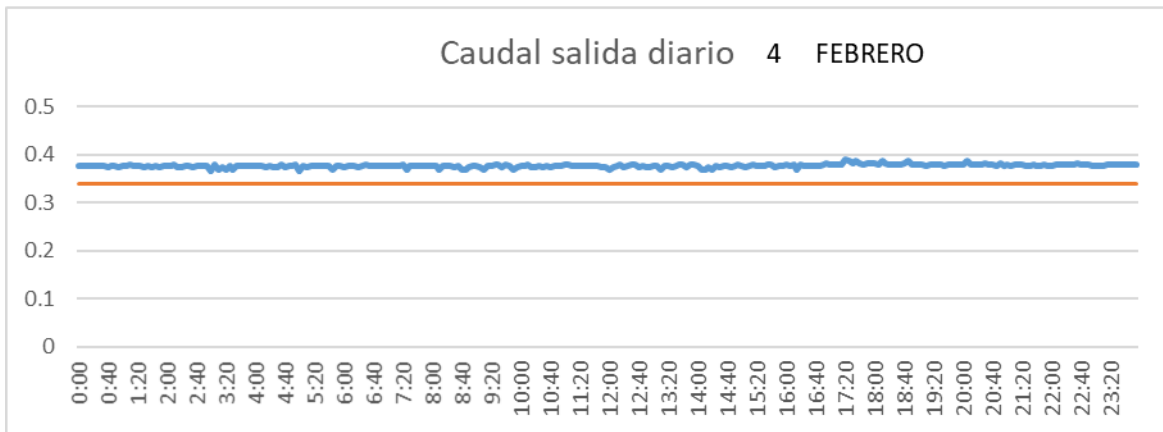
CUENCA



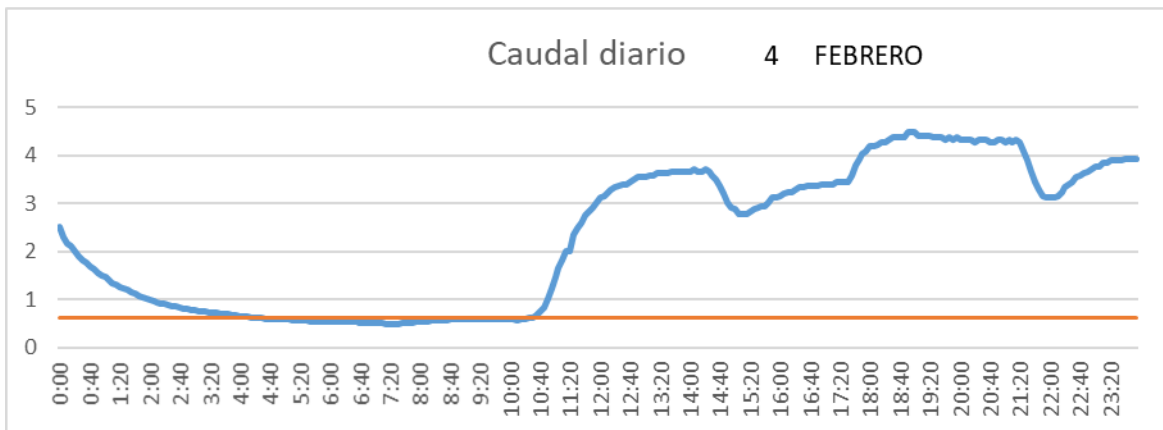
SAN LORENZO PARRILLA



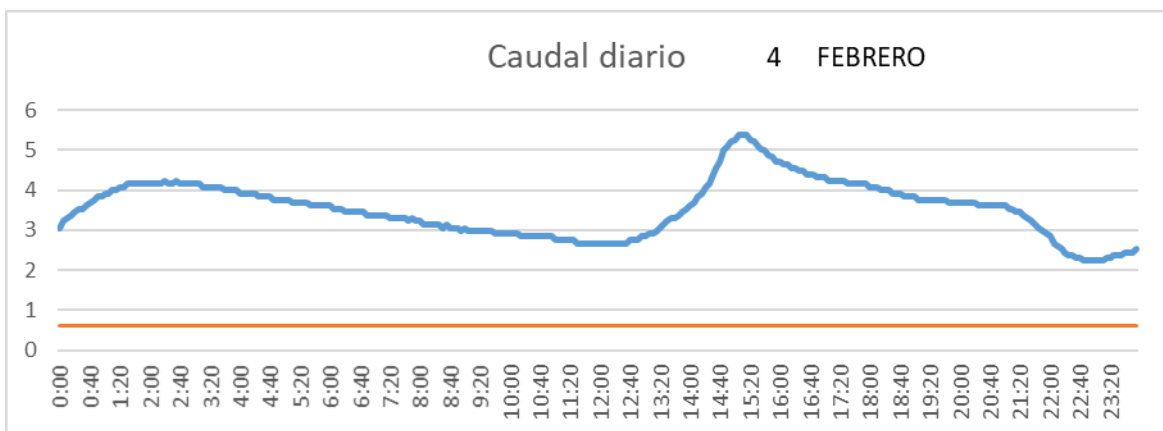
SALIDA TOBA



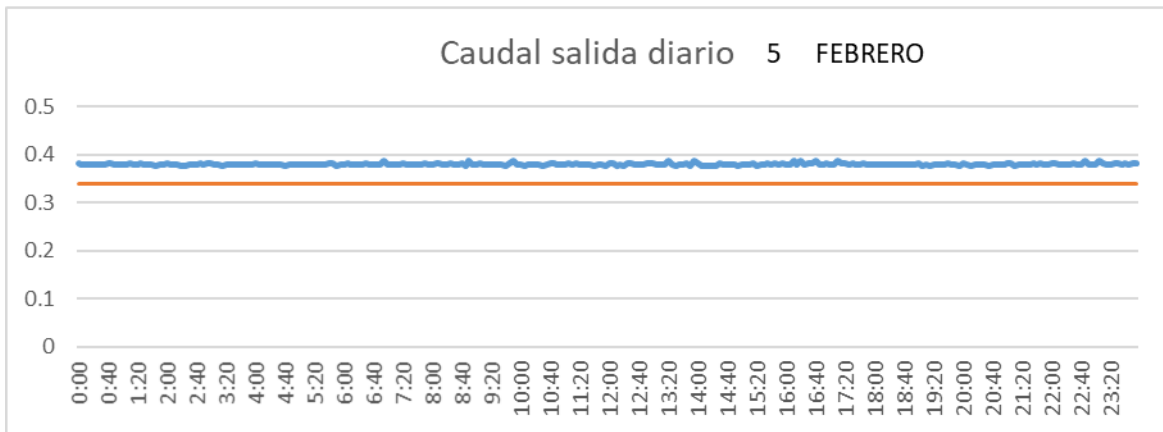
CUENCA



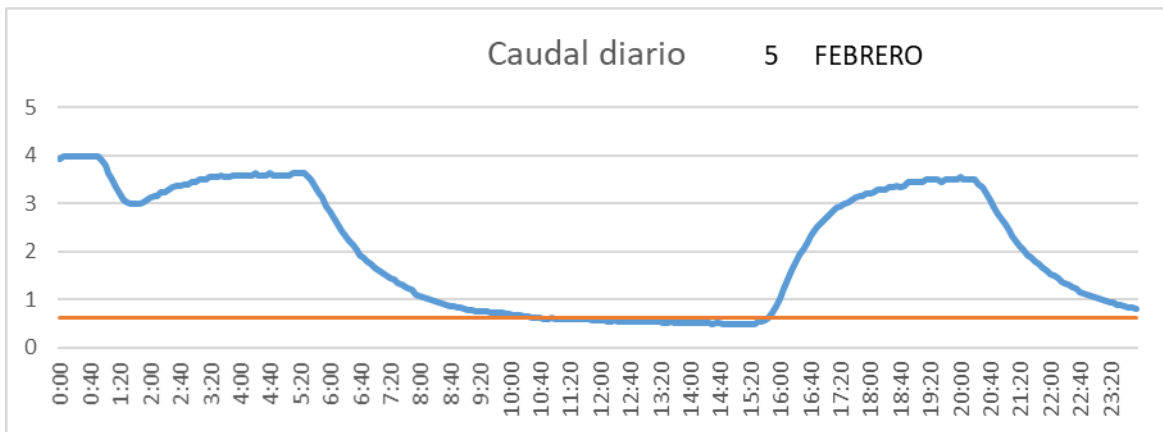
SAN LORENZO PARRILLA



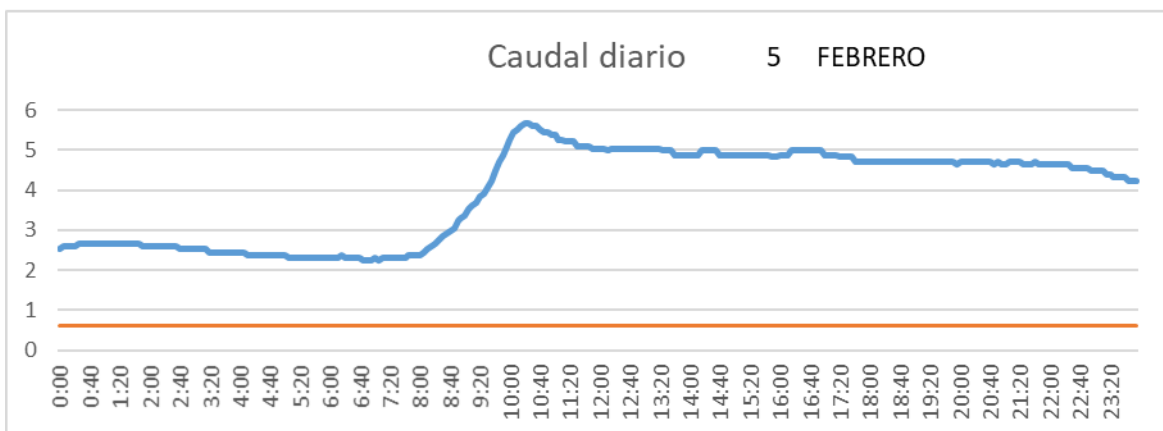
SALIDA TOBA



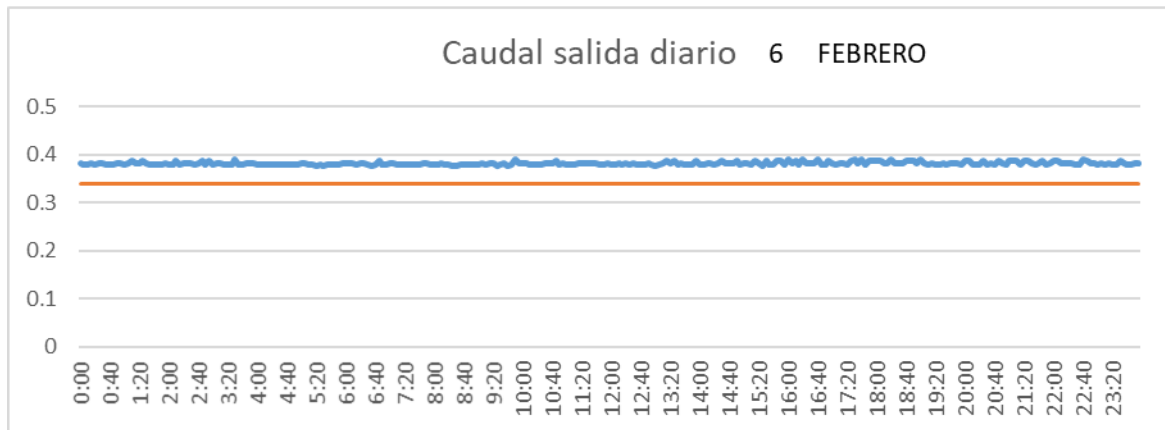
CUENCA



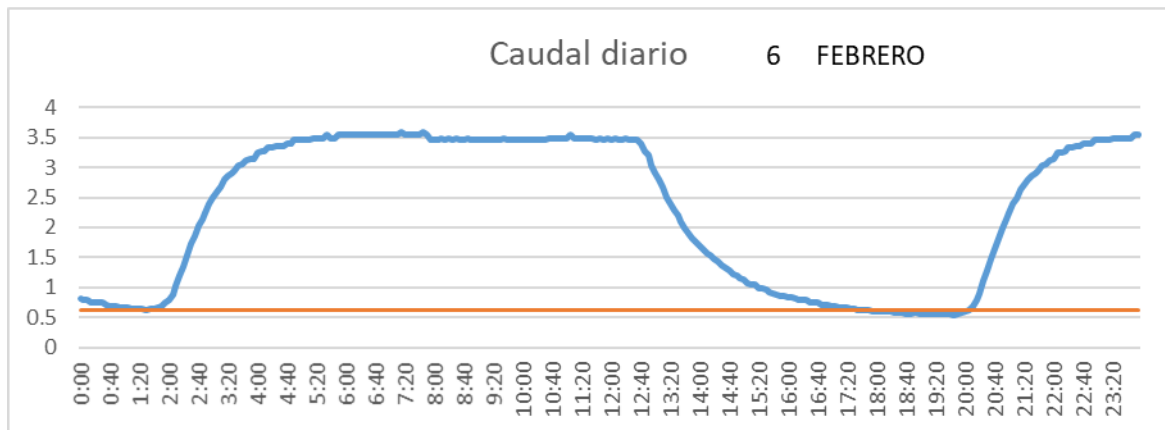
SAN LORENZO PARRILLA



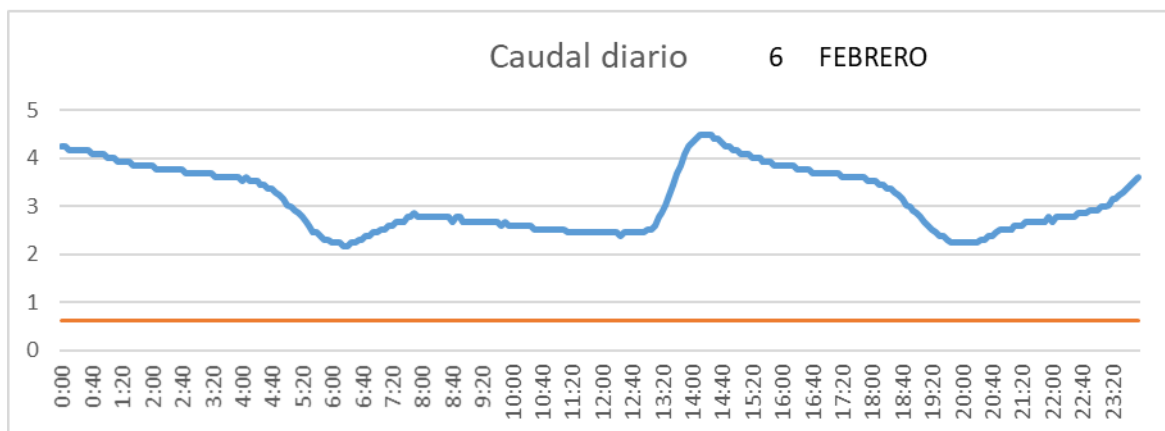
SALIDA TOBA



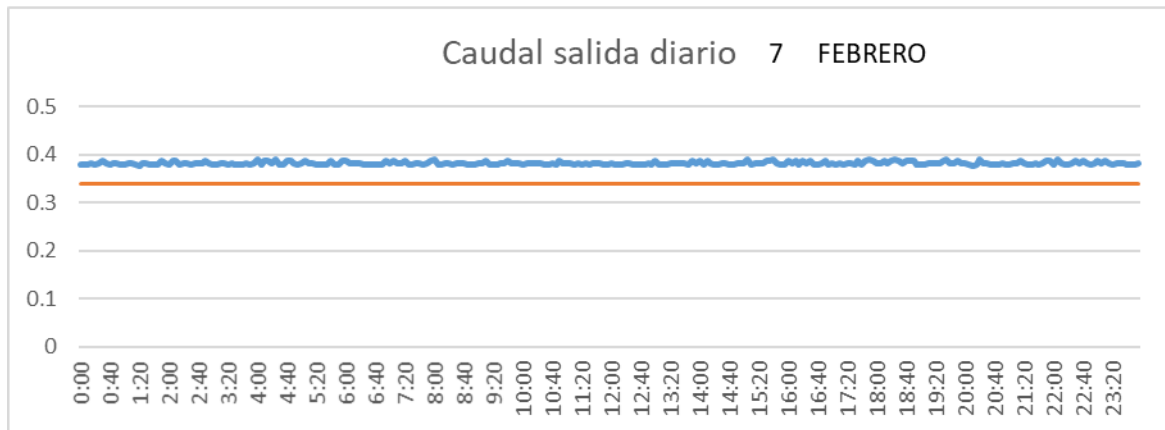
CUENCA



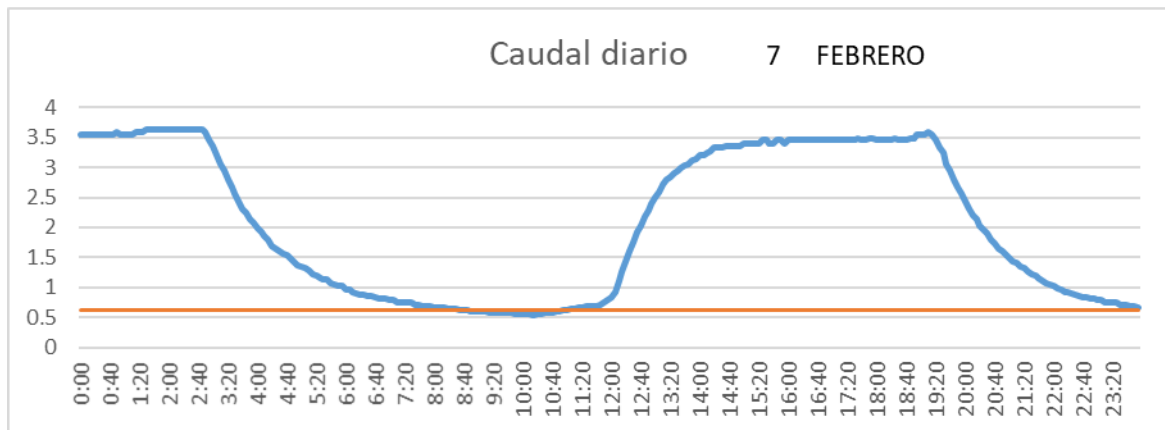
SAN LORENZO PARRILLA



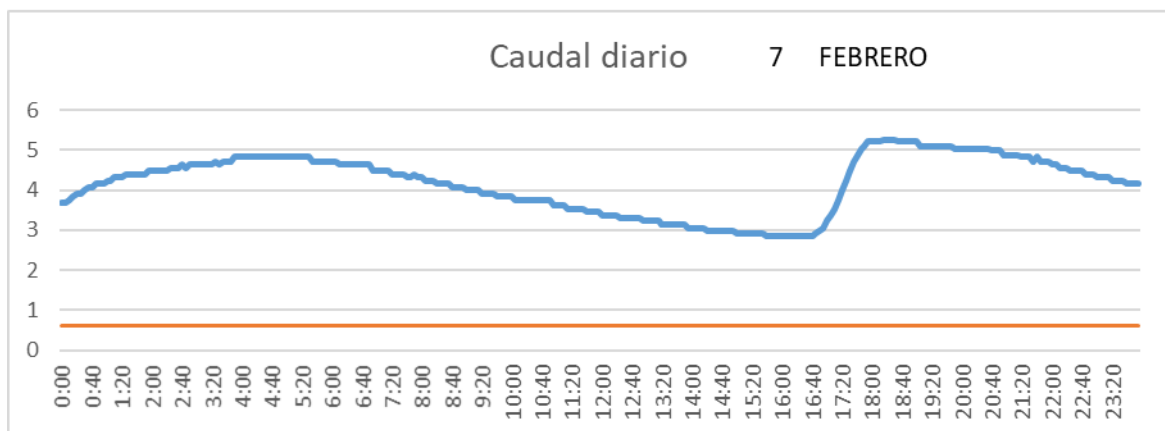
SALIDA TOBA



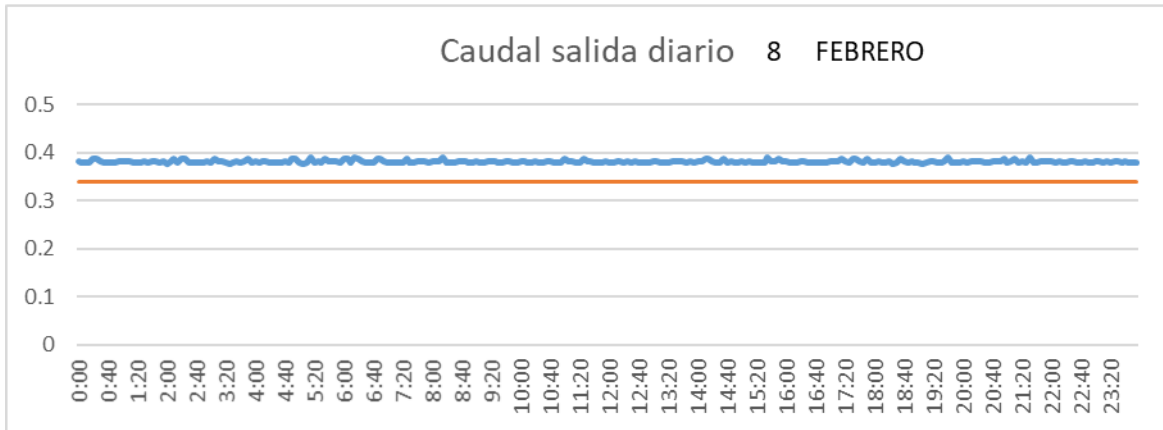
CUENCA



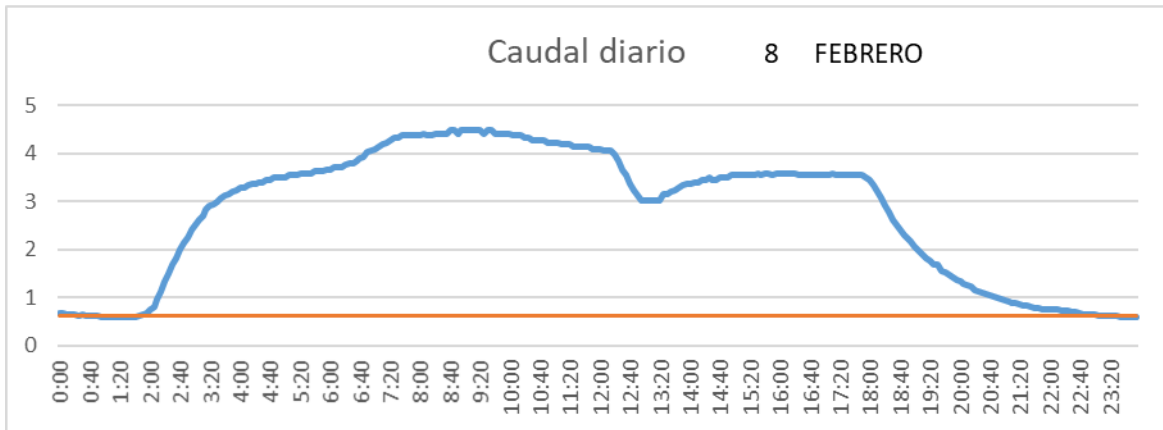
SAN LORENZO PARRILLA



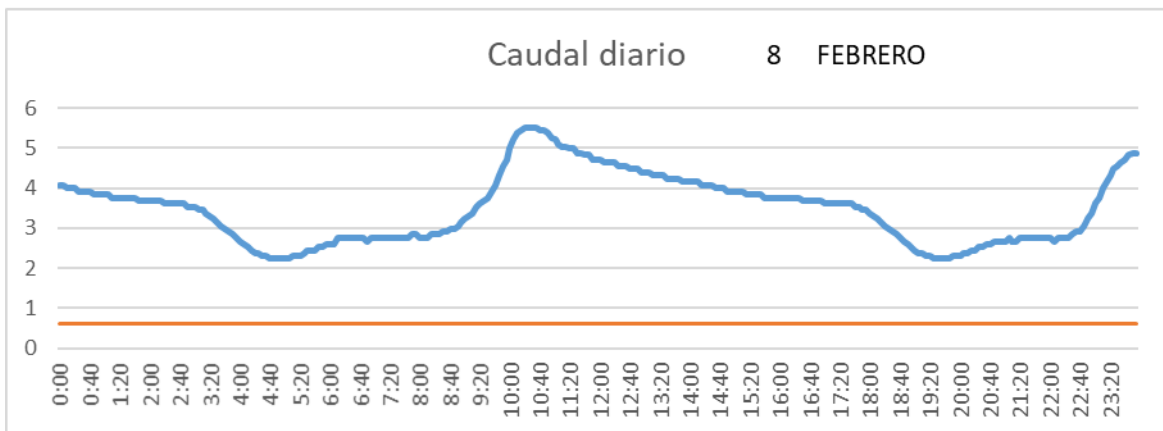
SALIDA TOBA



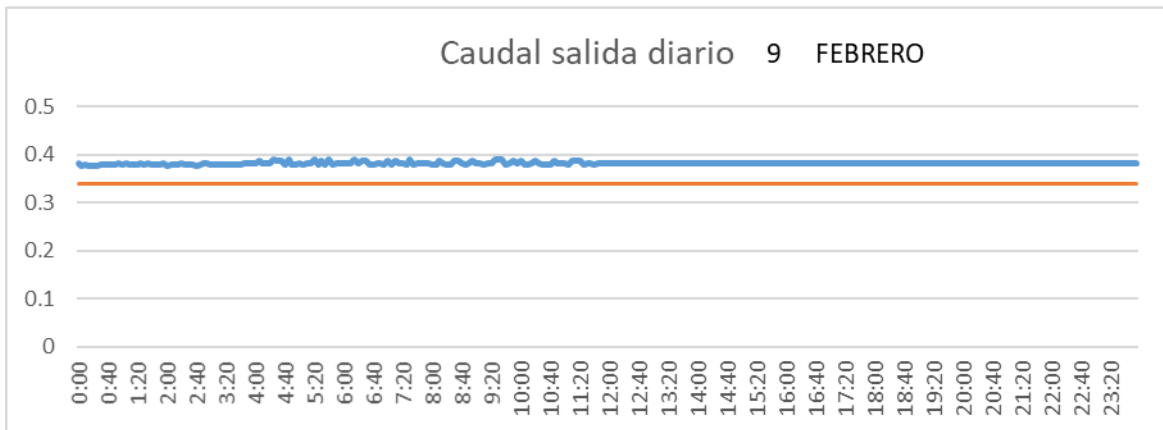
CUENCA



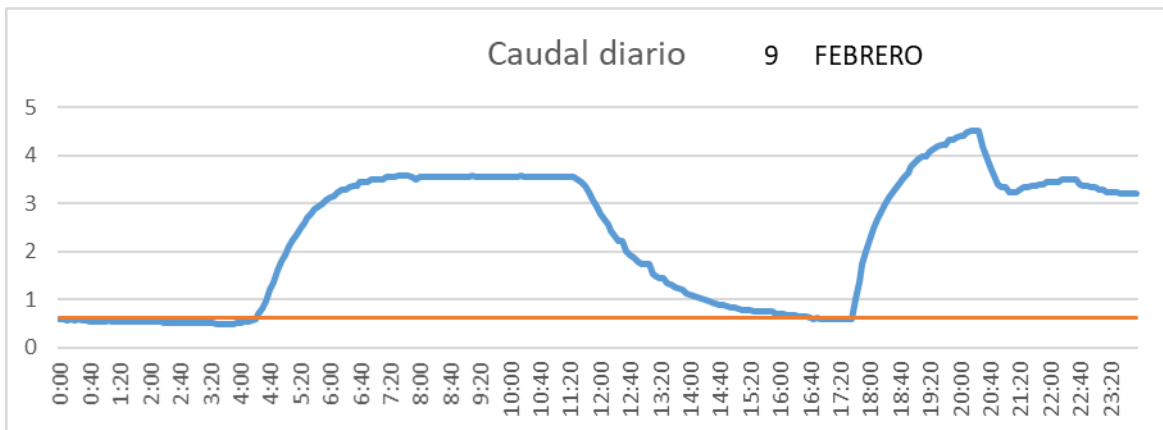
SAN LORENZO PARRILLA



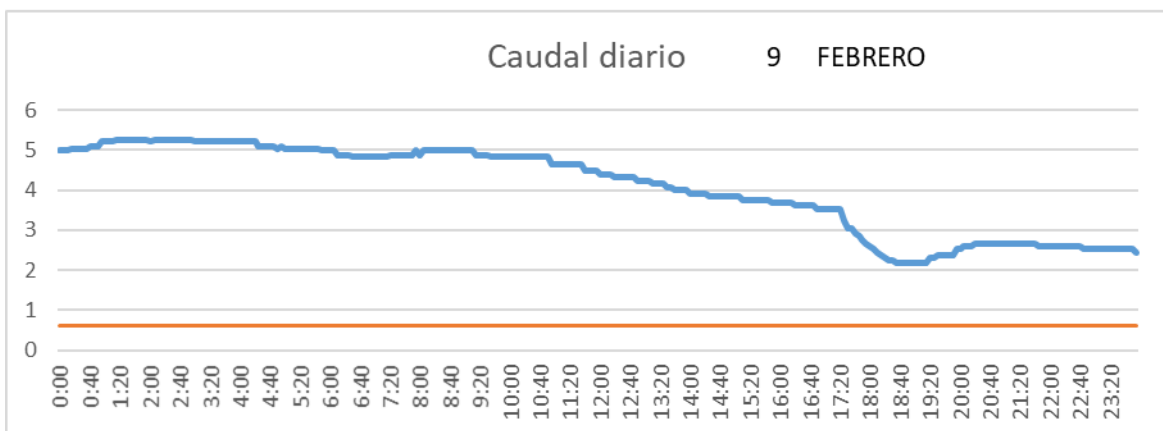
SALIDA TOBA



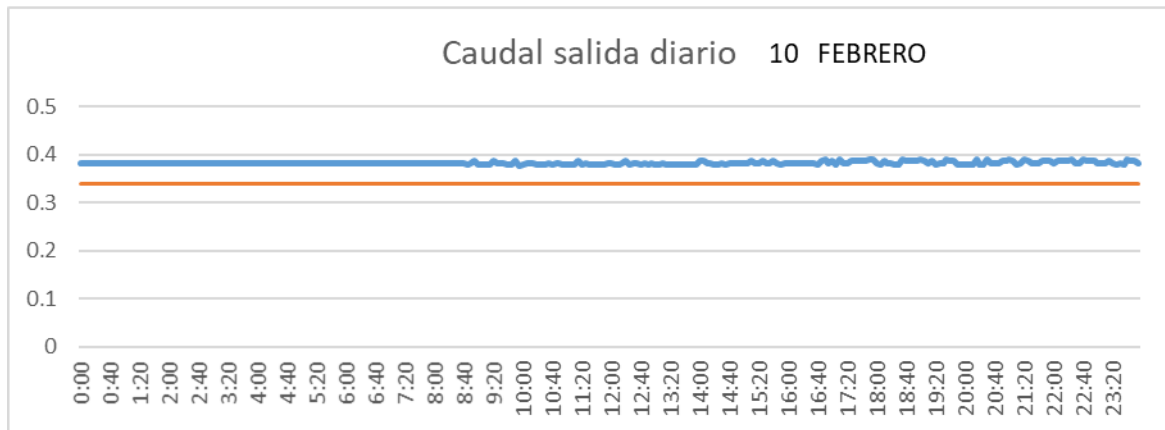
CUENCA



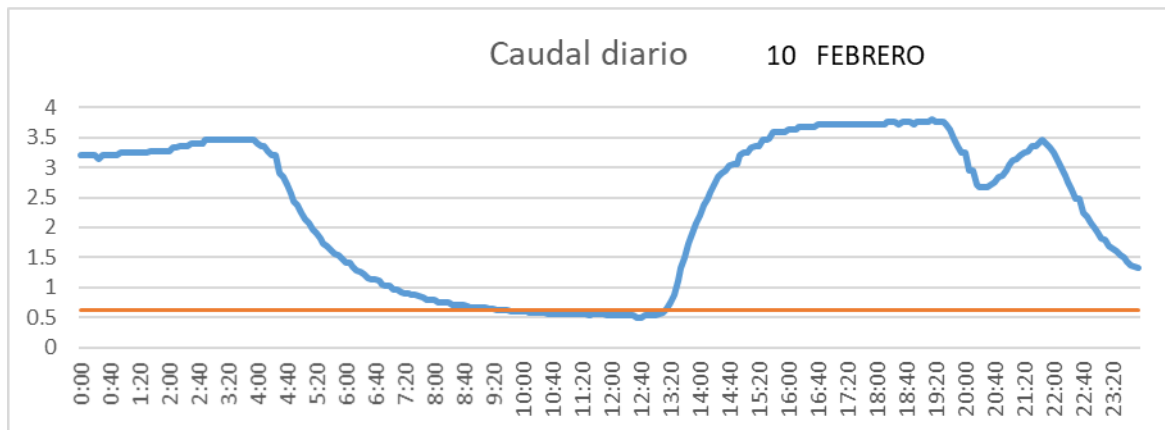
SAN LORENZO PARRILLA



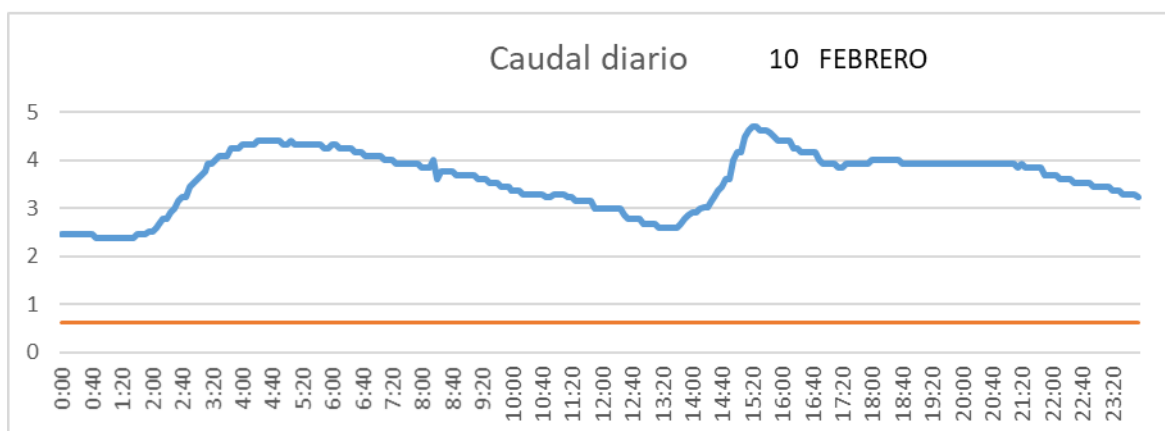
SALIDA TOBA



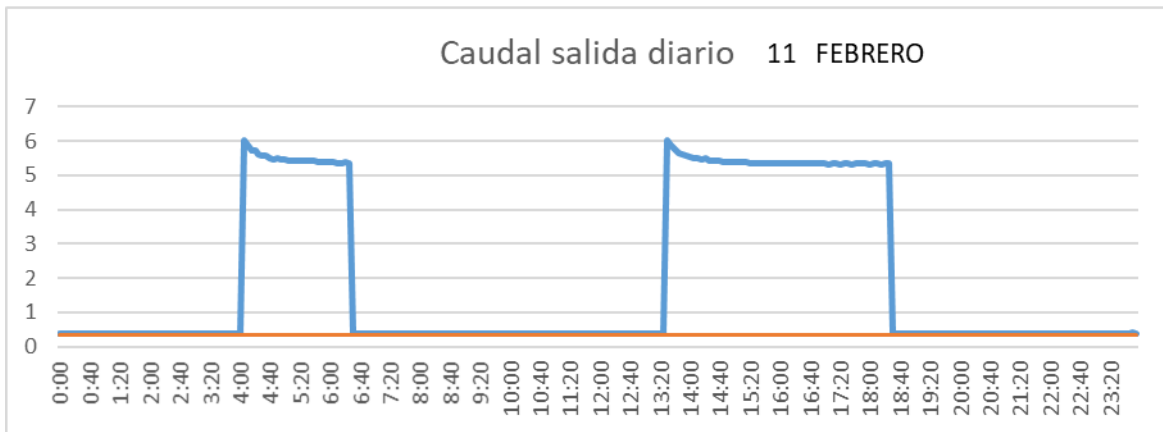
CUENCA



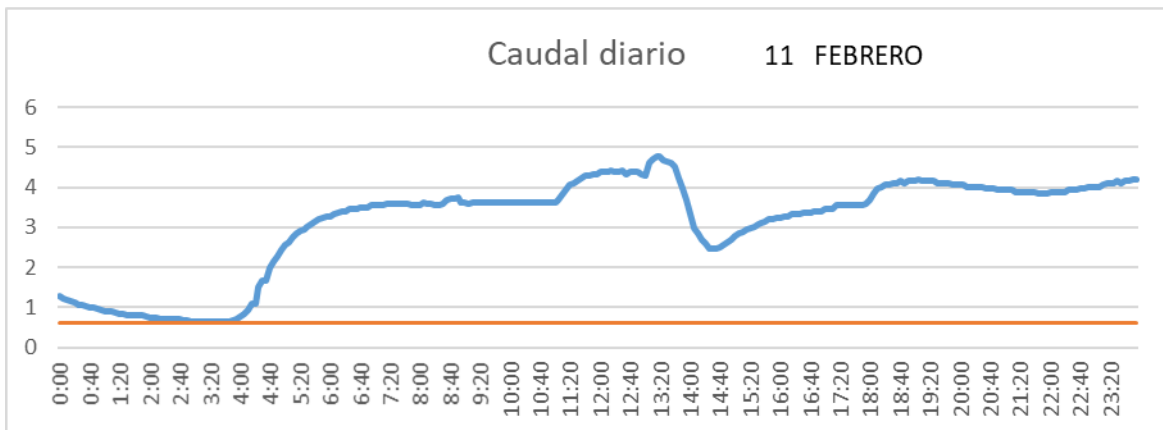
SAN LORENZO PARRILLA



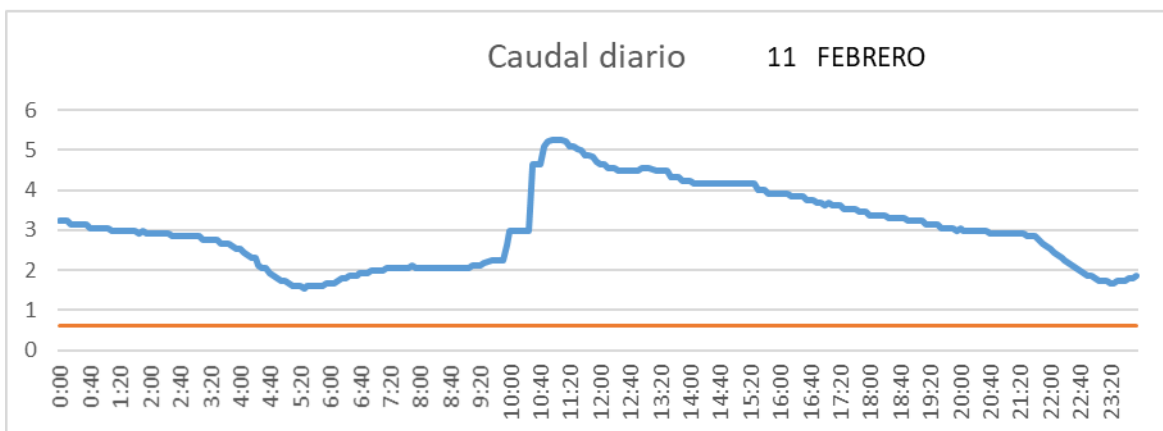
SALIDA TOBA



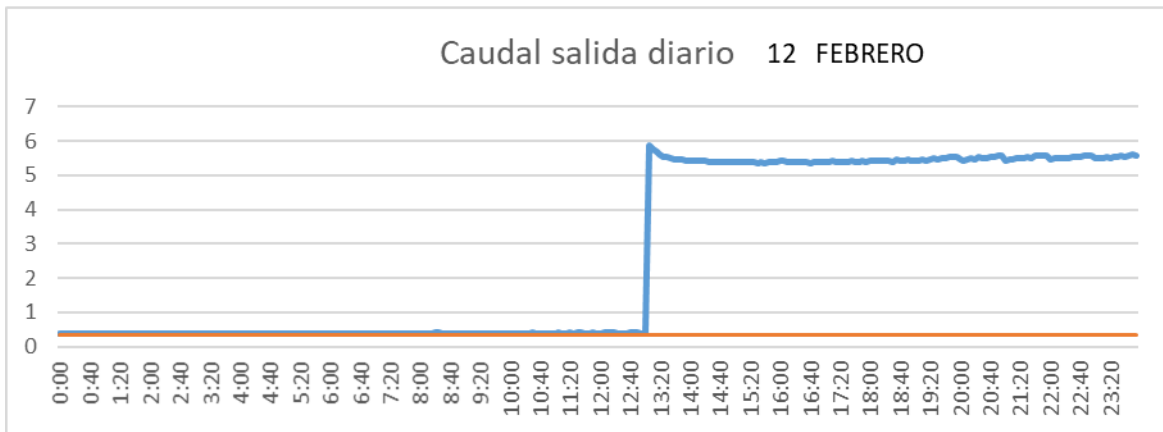
CUENCA



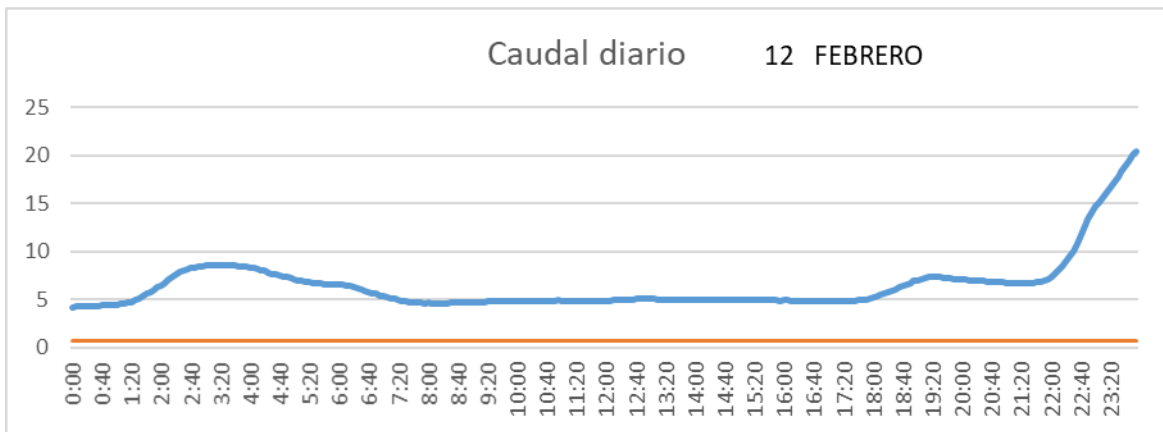
SAN LORENZO PARRILLA



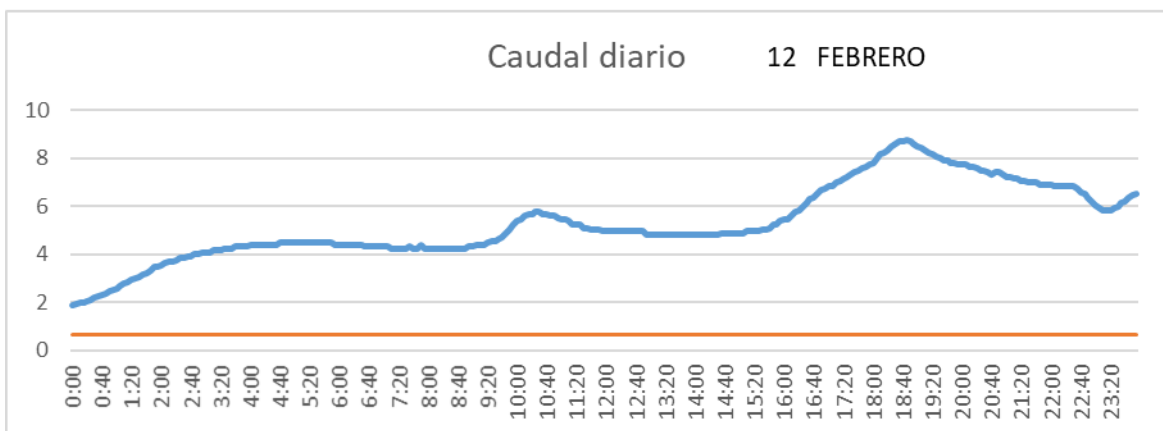
SALIDA TOBA



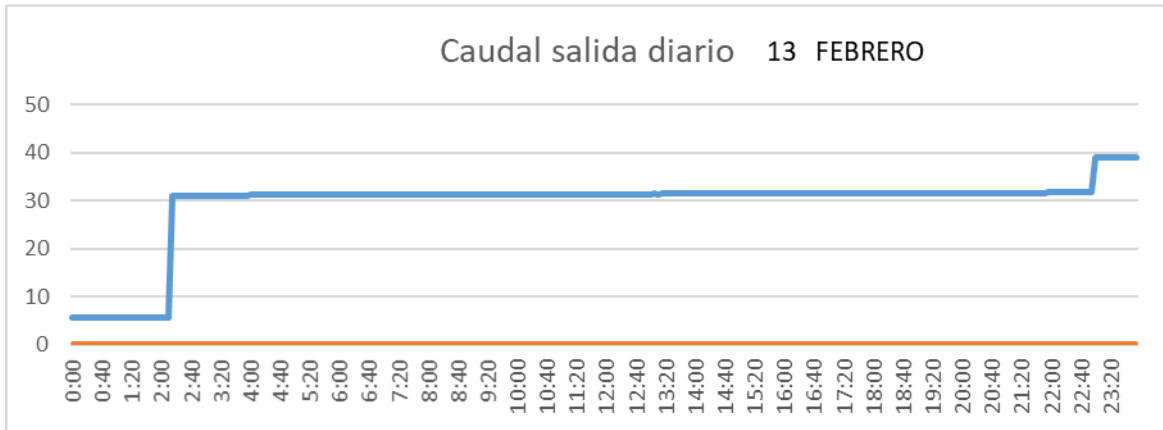
CUENCA



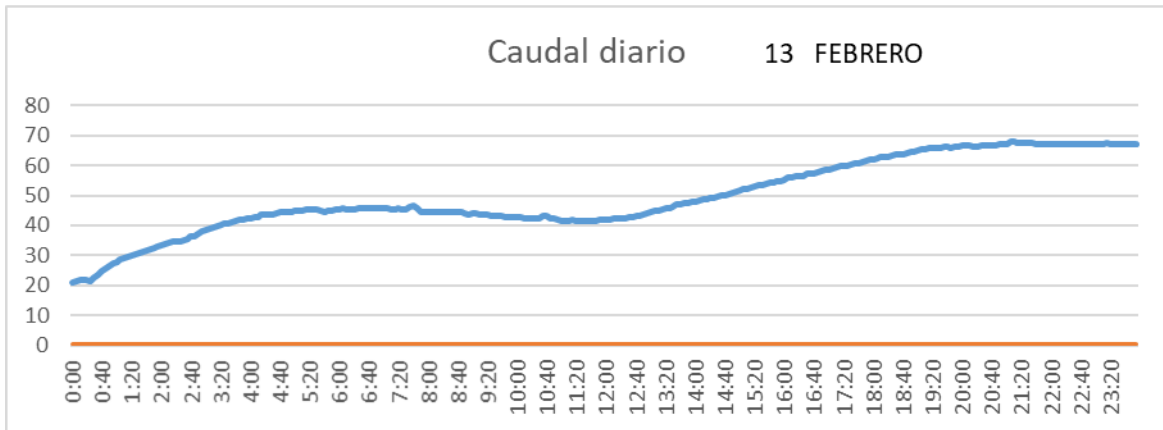
SAN LORENZO PARRILLA



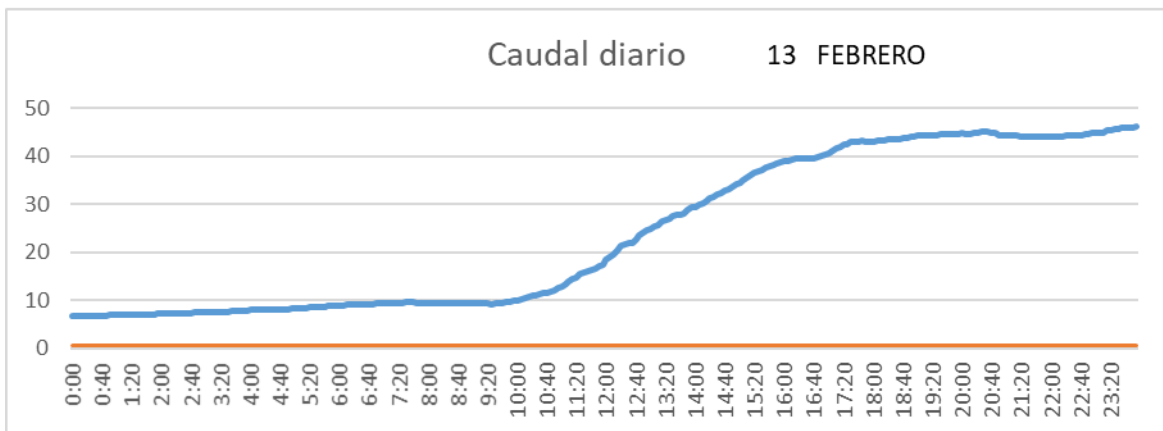
SALIDA TOBA



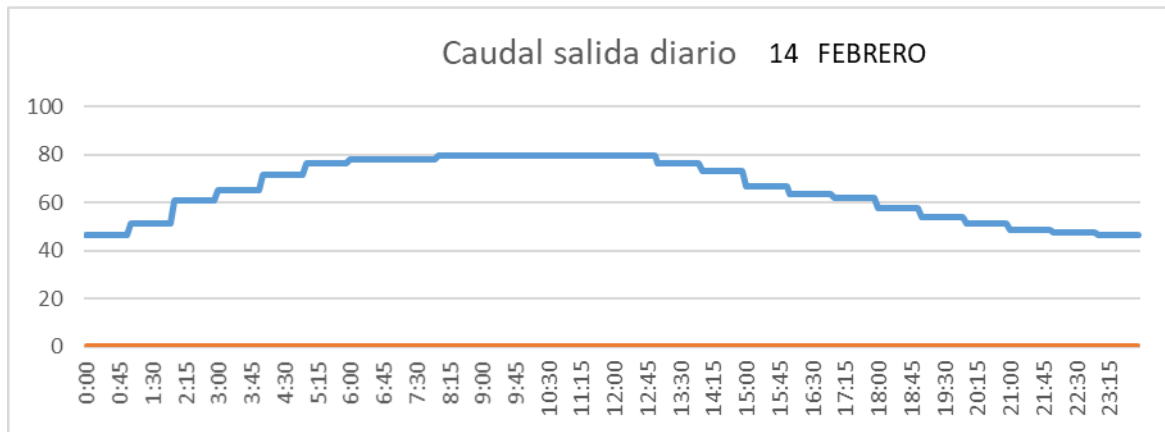
CUENCA



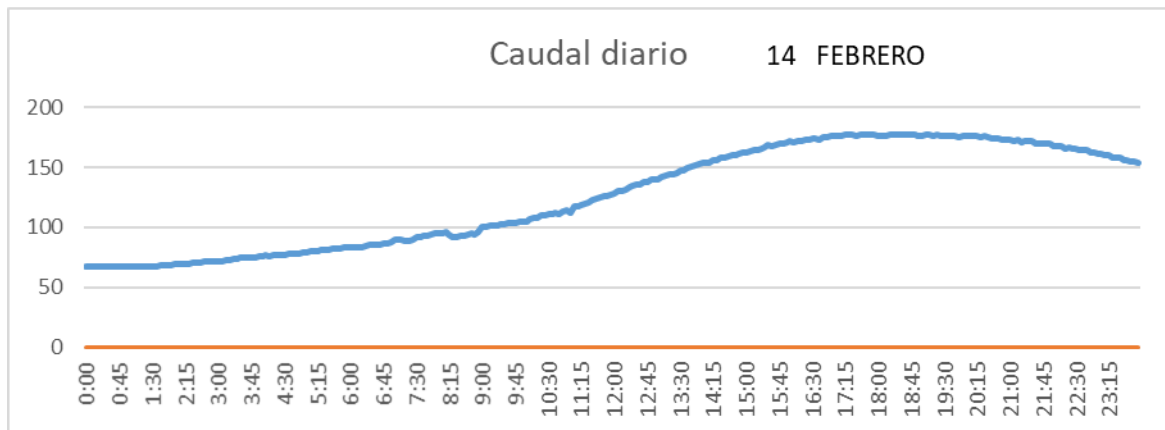
SAN LORENZO PARRILLA



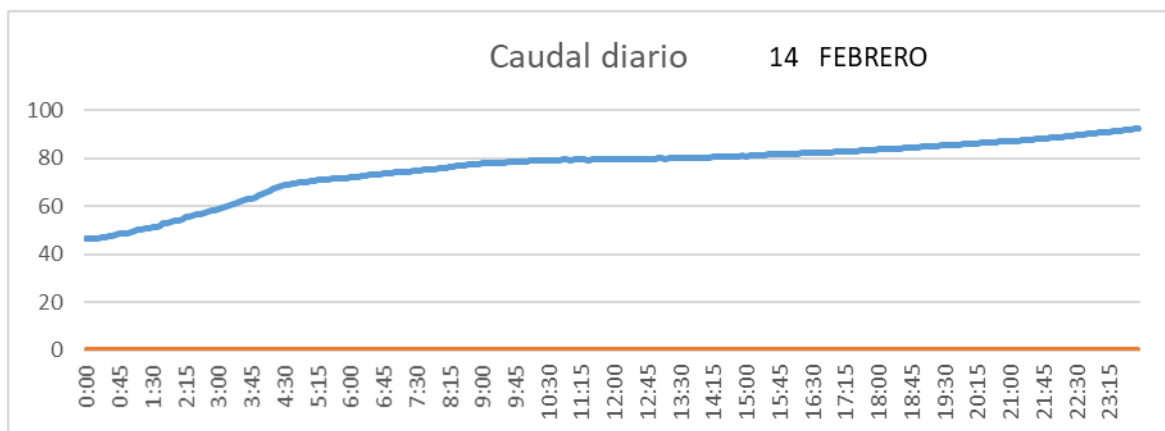
SALIDA TOBA



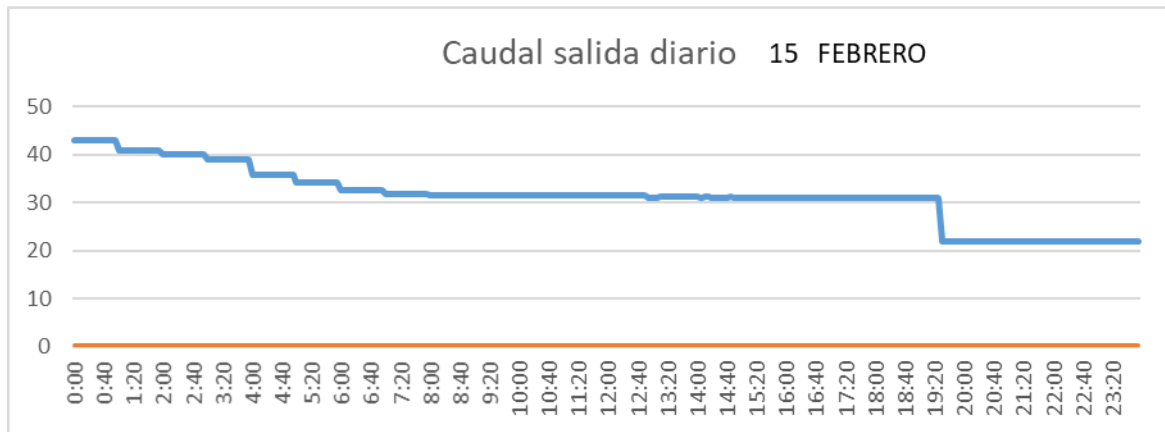
CUENCA



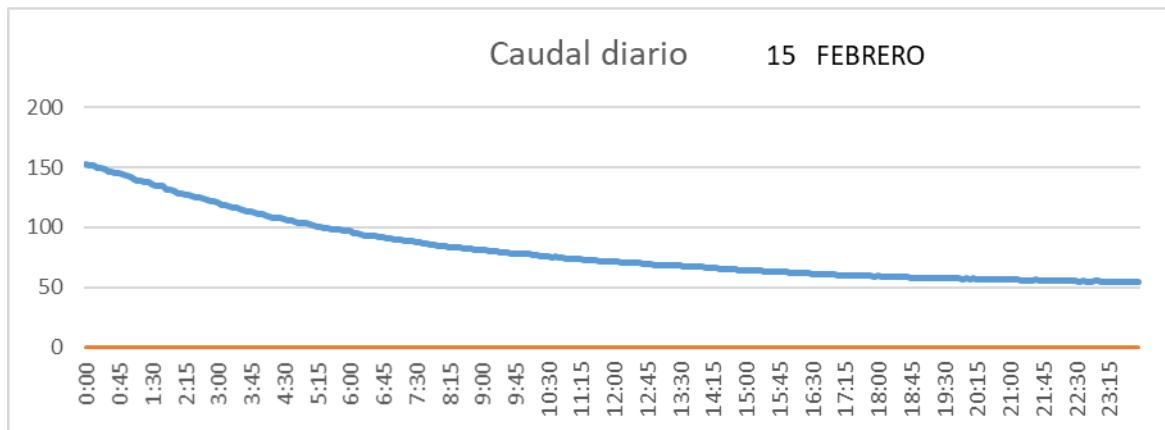
SAN LORENZO PARRILLA



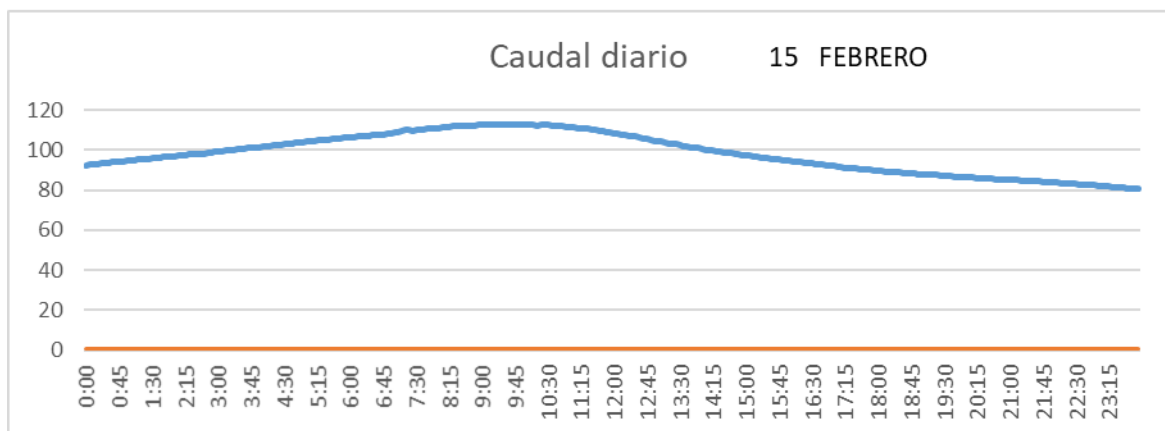
SALIDA TOBA



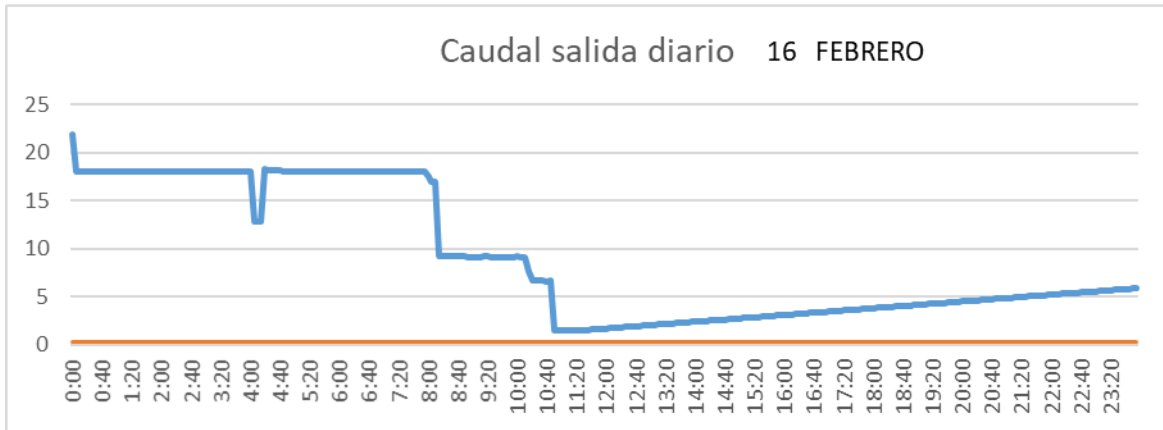
CUENCA



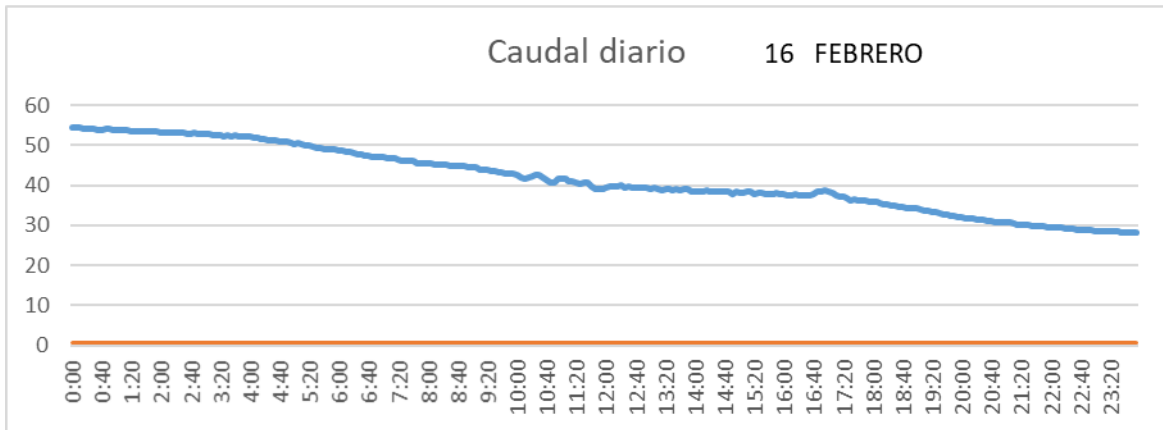
SAN LORENZO PARRILLA



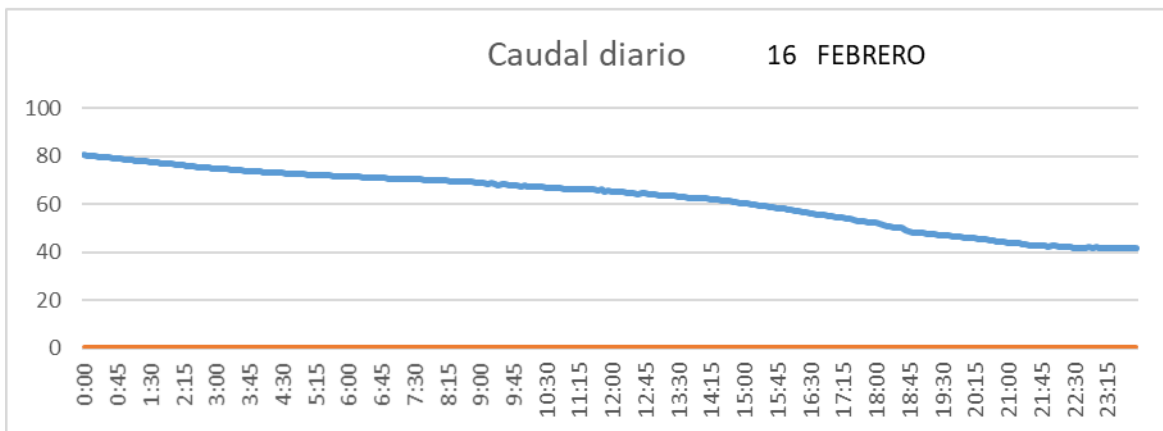
SALIDA TOBA



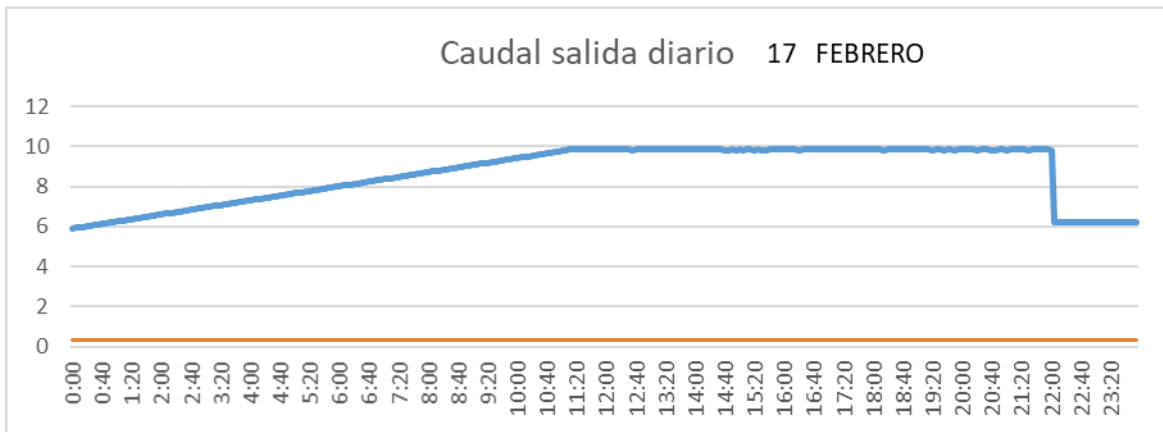
CUENCA



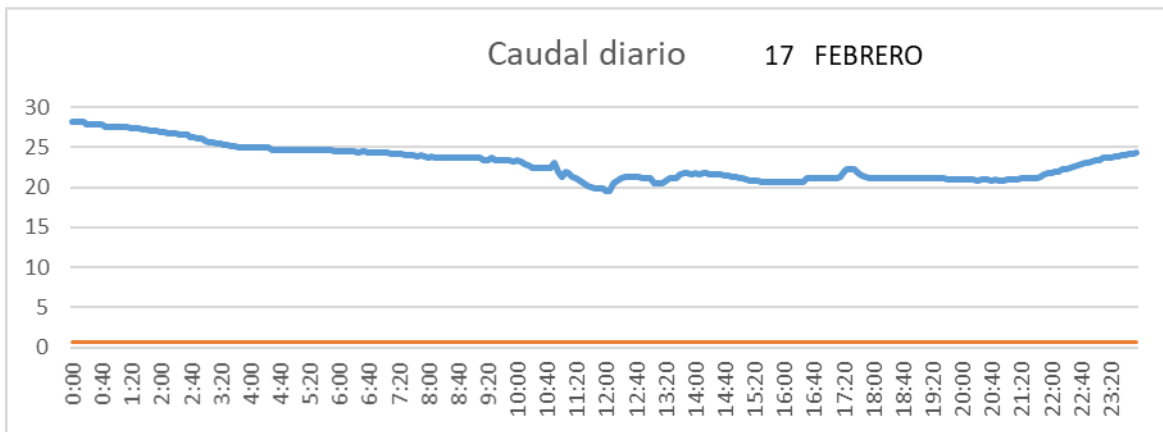
SAN LORENZO PARRILLA



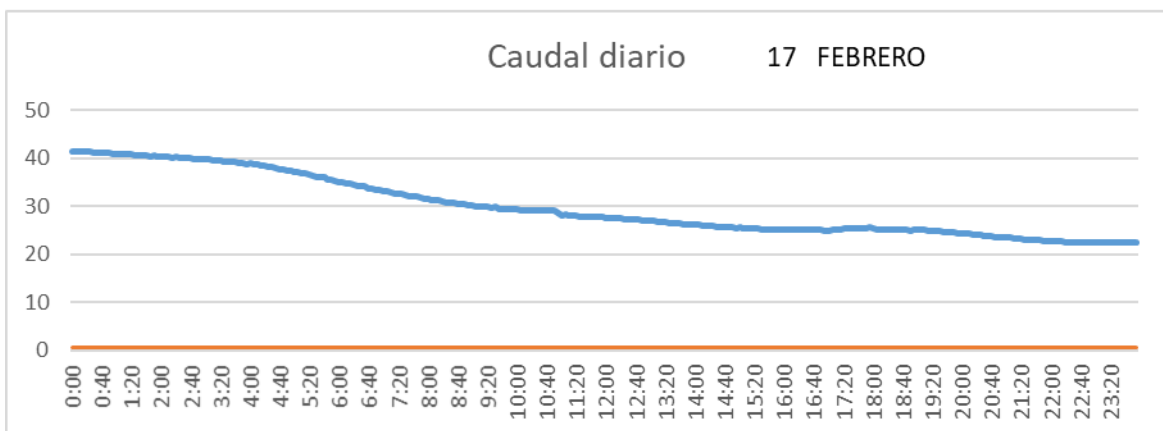
SALIDA TOBA



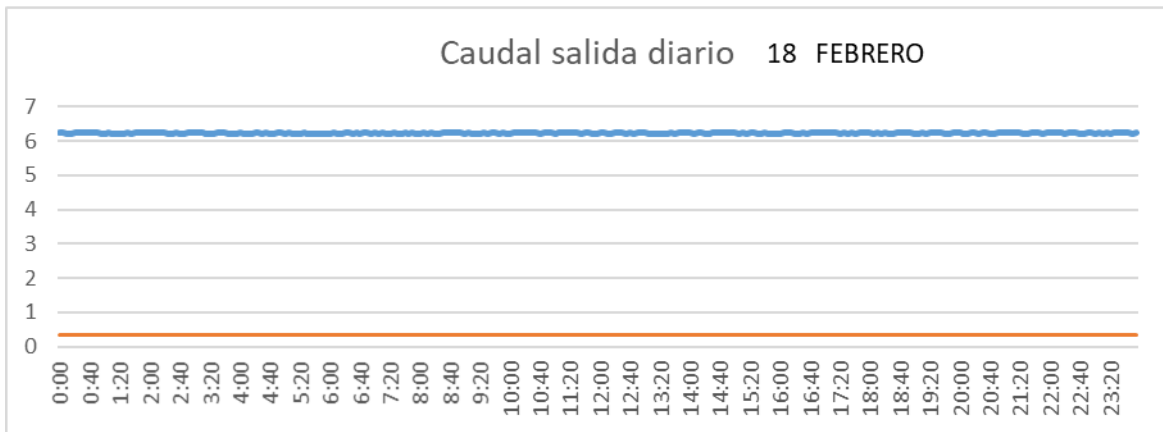
CUENCA



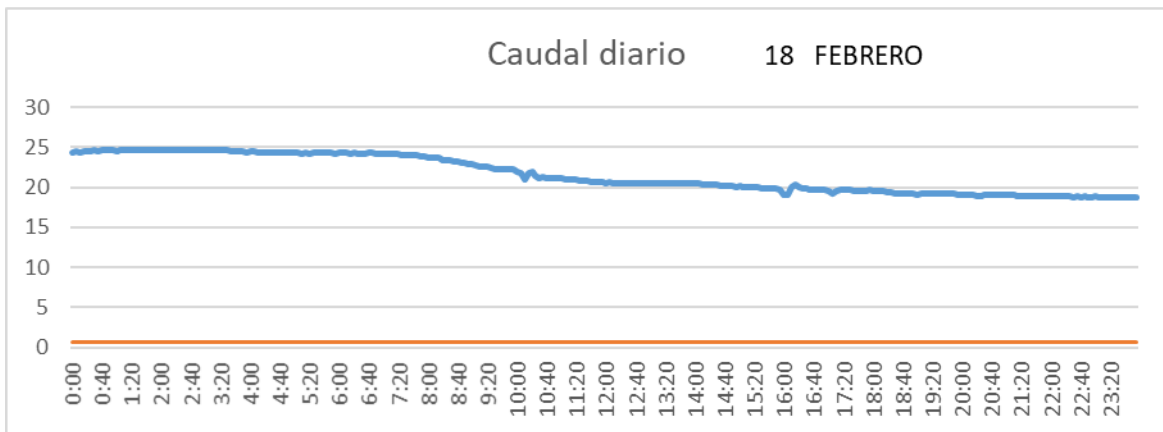
SAN LORENZO PARRILLA



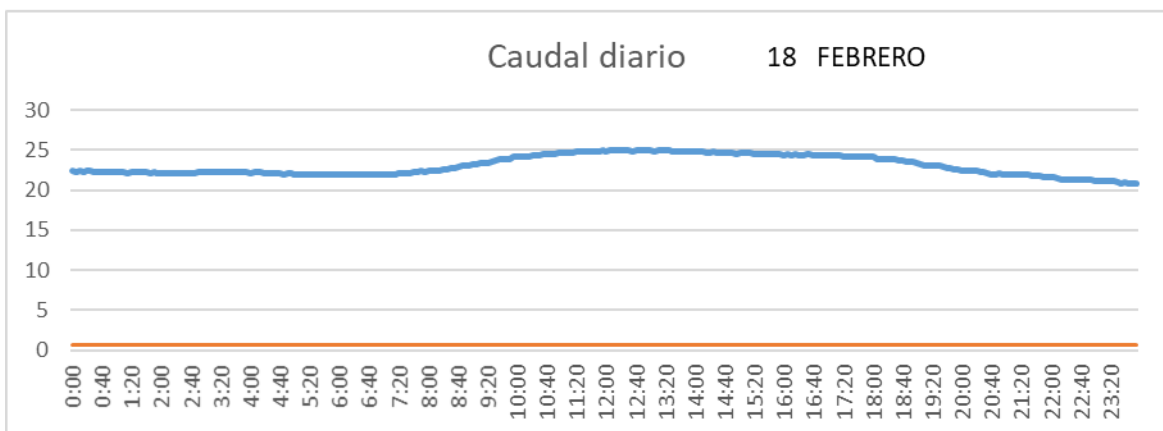
SALIDA TOBA



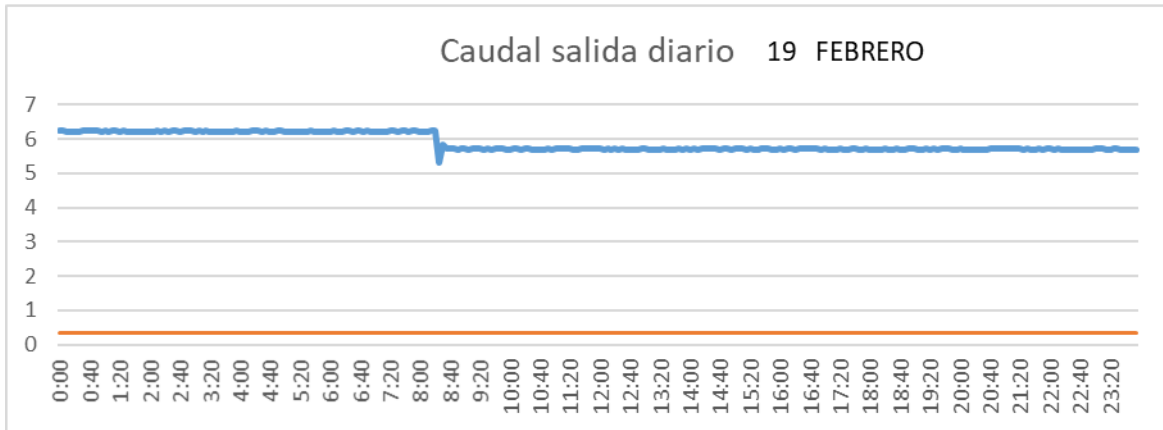
CUENCA



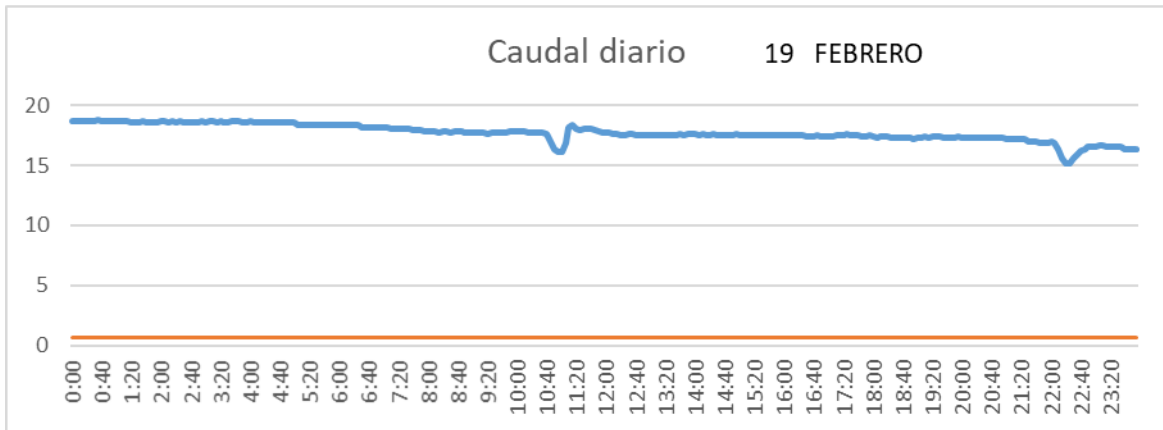
SAN LORENZO PARRILLA



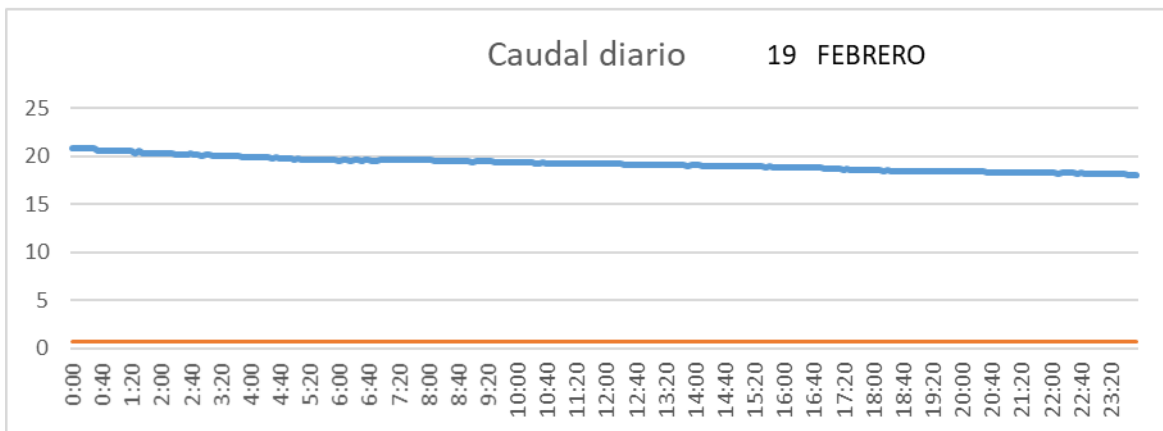
SALIDA TOBA



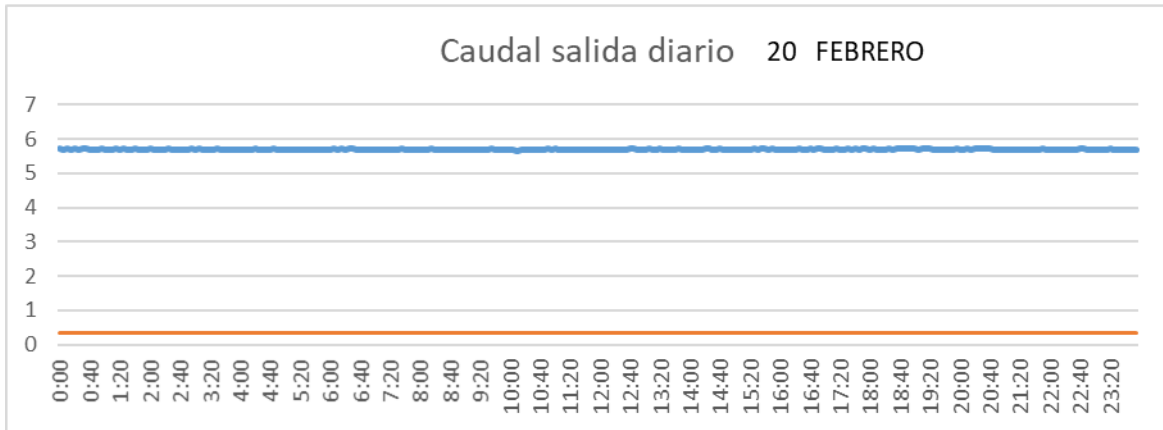
CUENCA



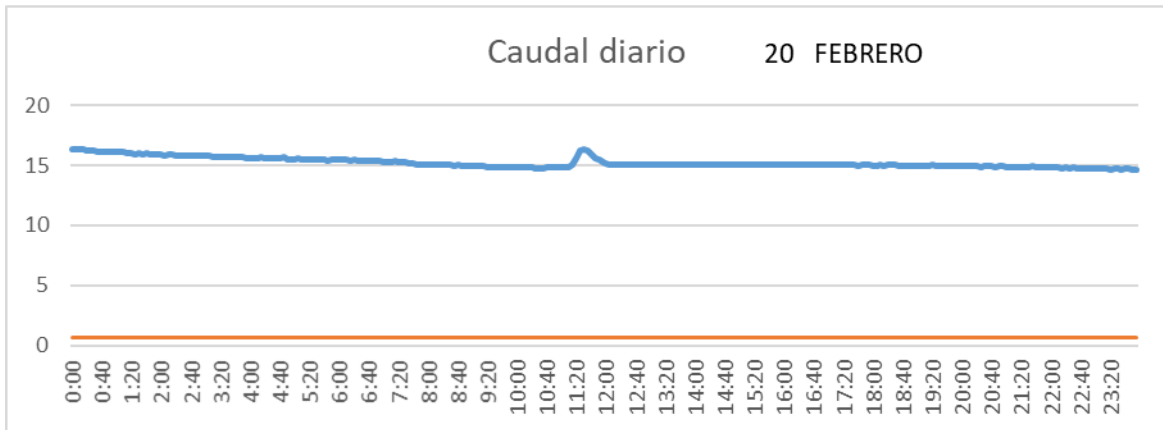
SAN LORENZO PARRILLA



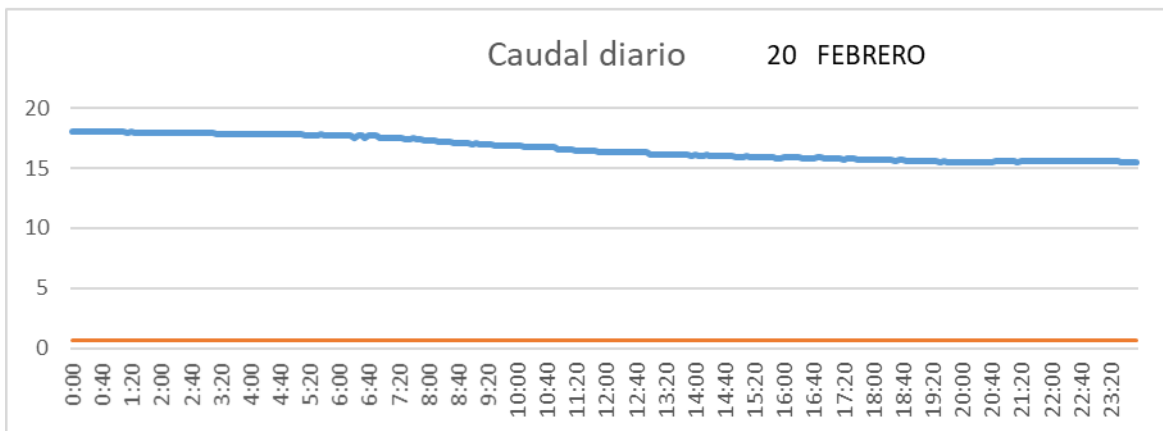
SALIDA TOBA



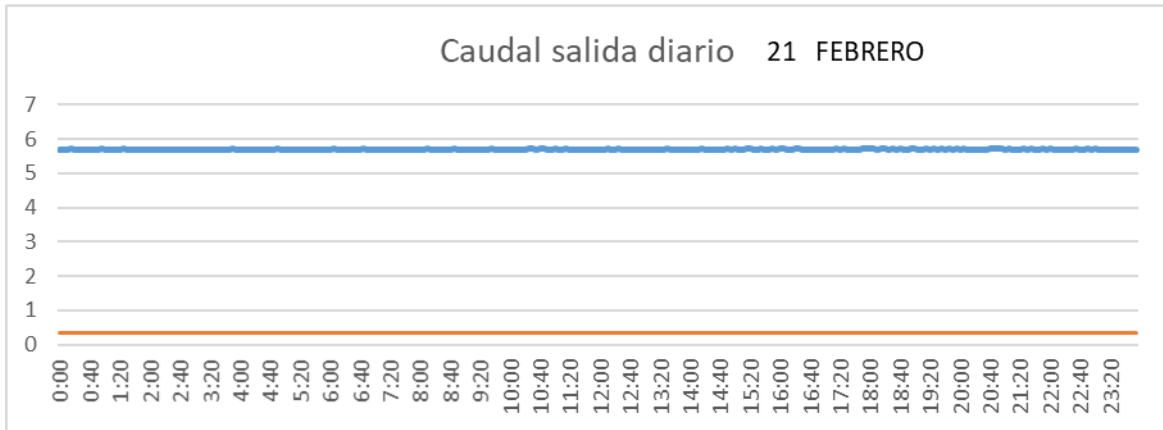
CUENCA



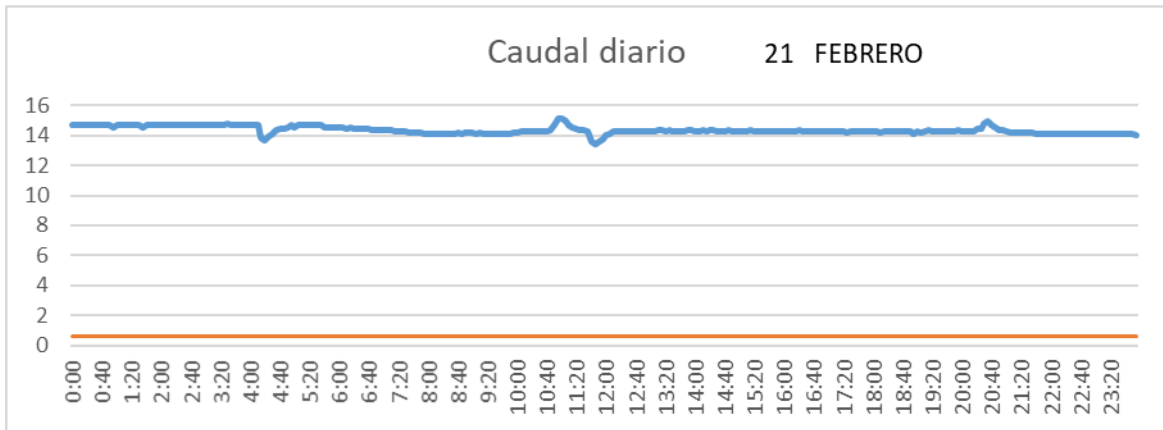
SAN LORENZO PARRILLA



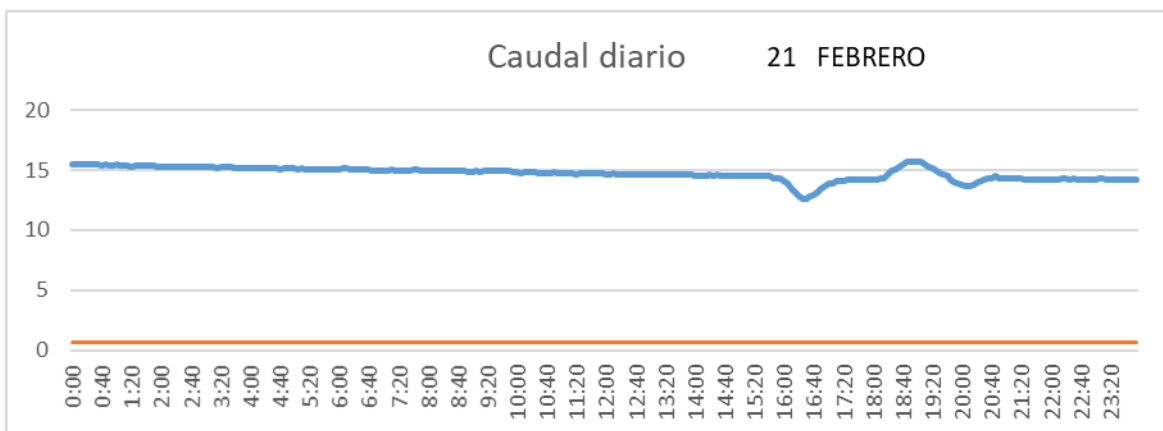
SALIDA TOBA



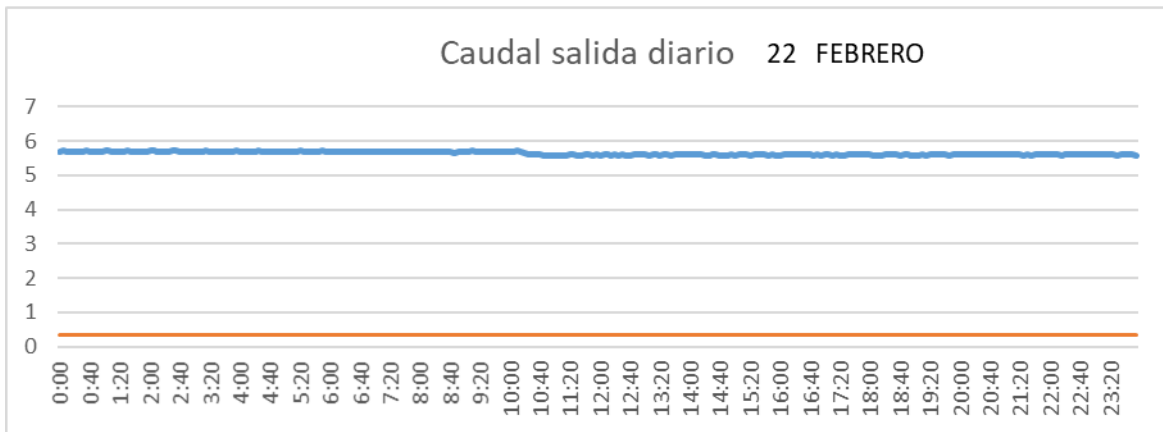
CUENCA



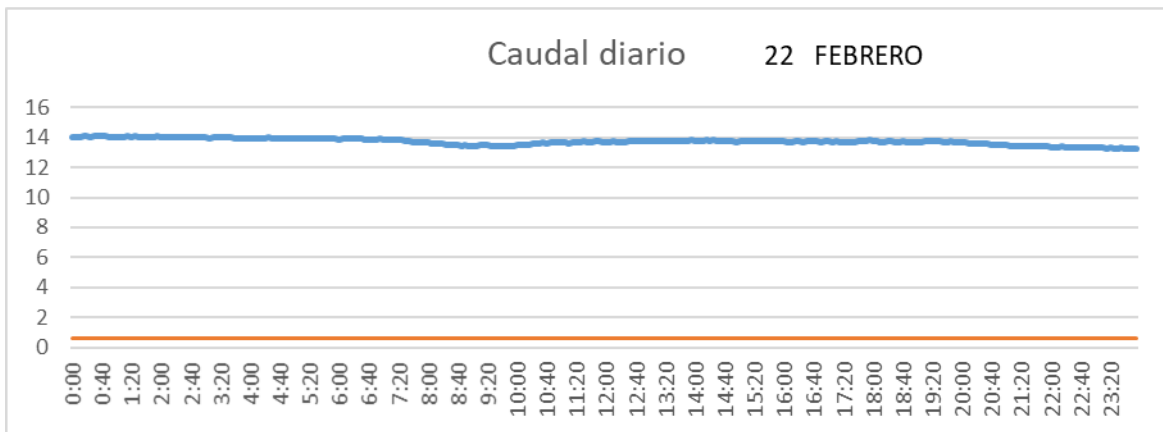
SAN LORENZO PARRILLA



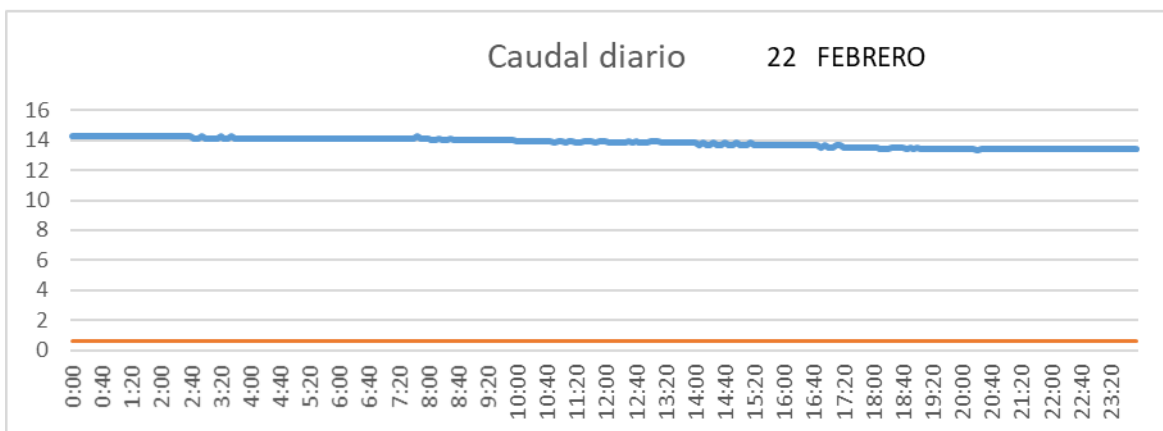
SALIDA TOBA



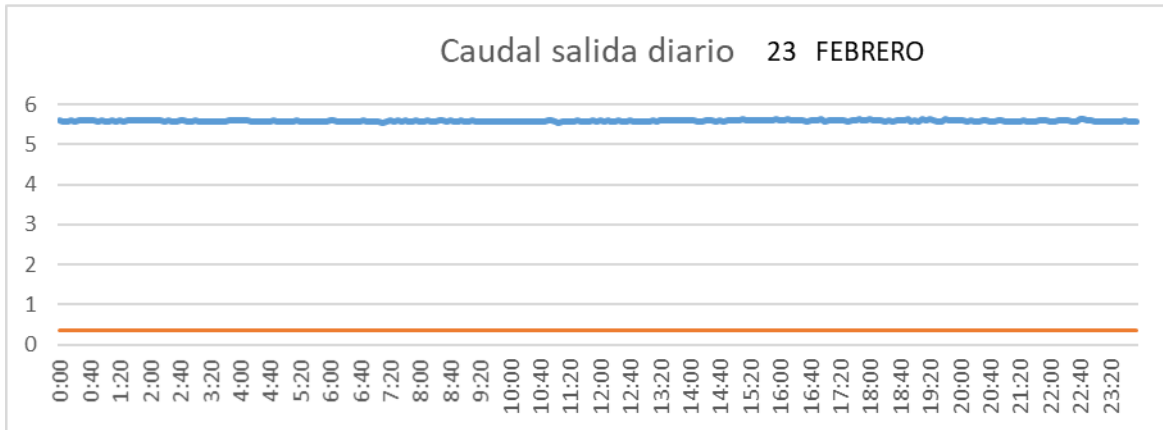
CUENCA



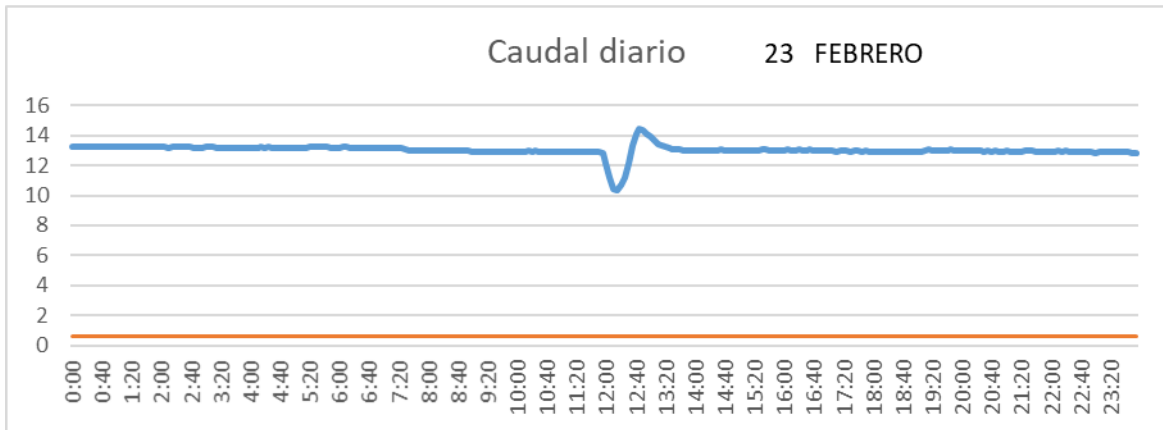
SAN LORENZO PARRILLA



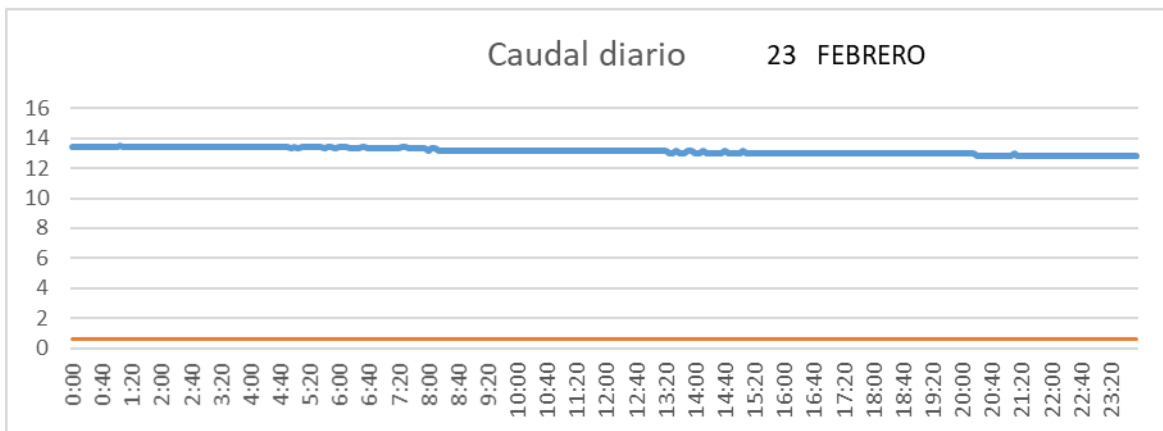
SALIDA TOBA



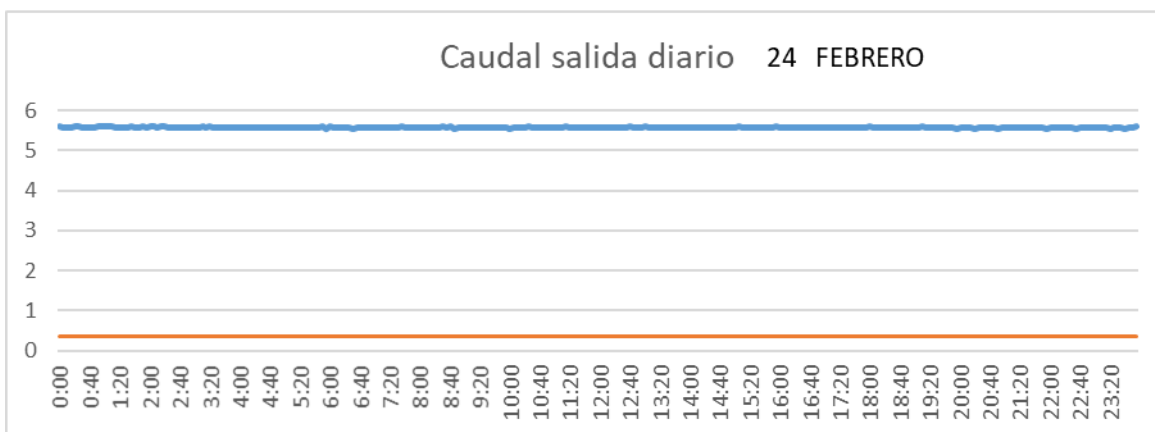
CUENCA



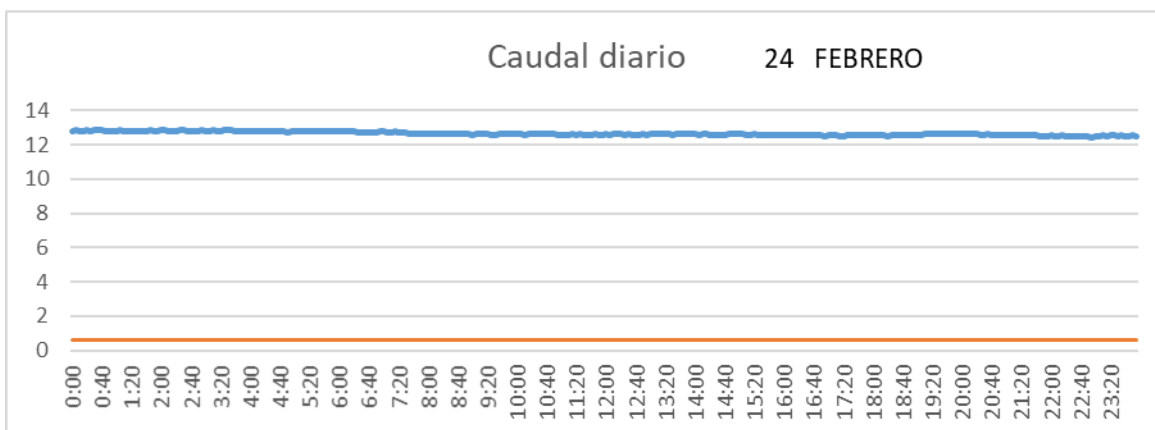
SAN LORENZO PARRILLA



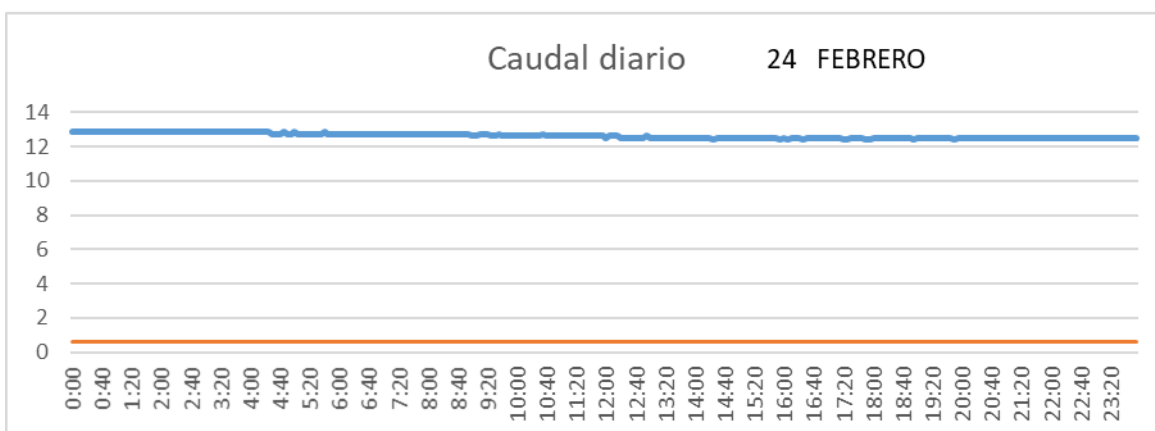
SALIDA TOBA



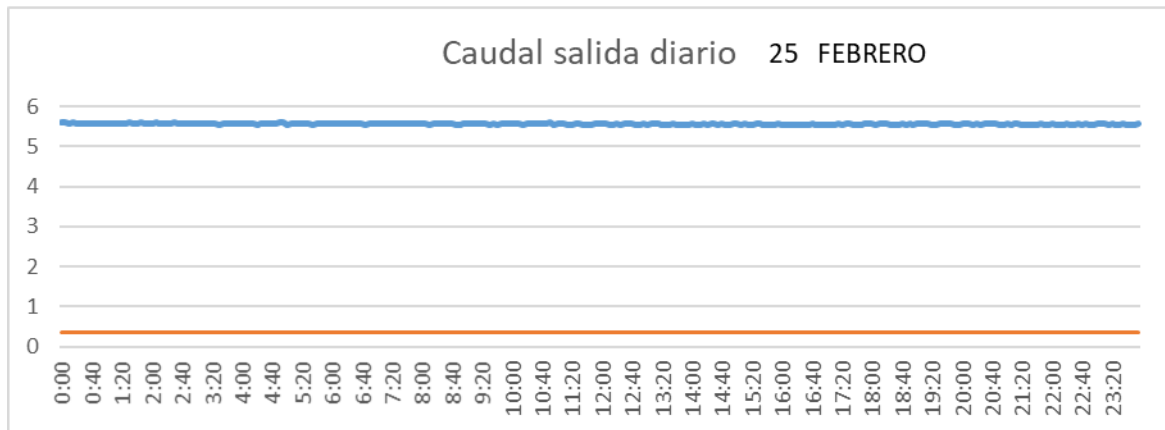
CUENCA



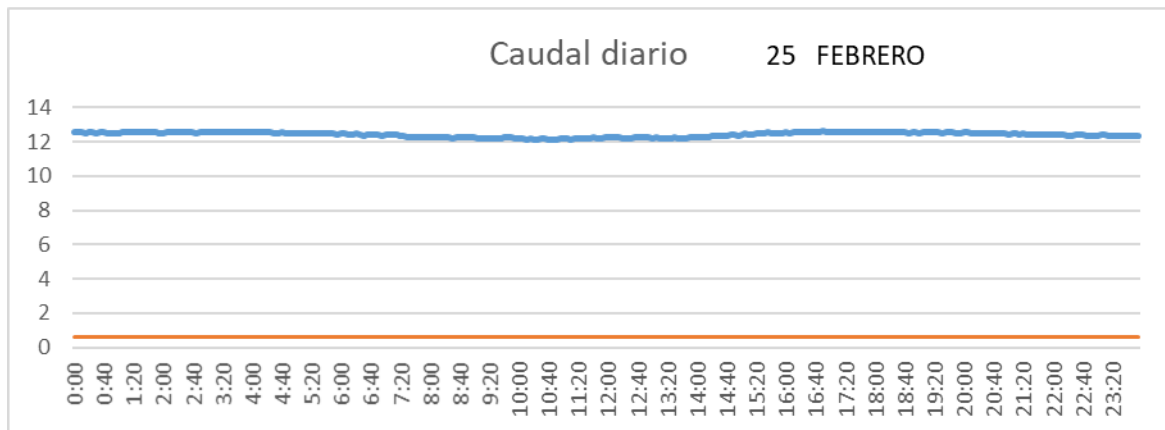
SAN LORENZO PARRILLA



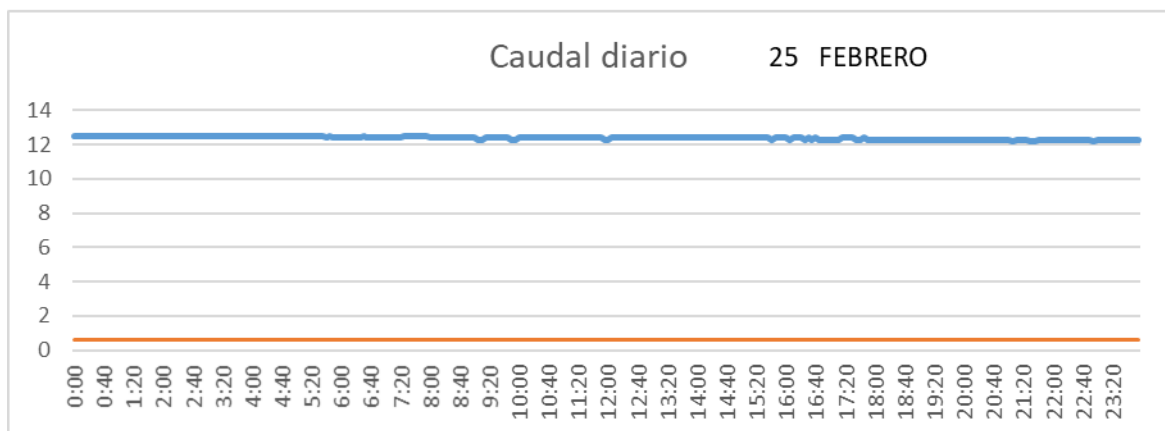
SALIDA TOBA



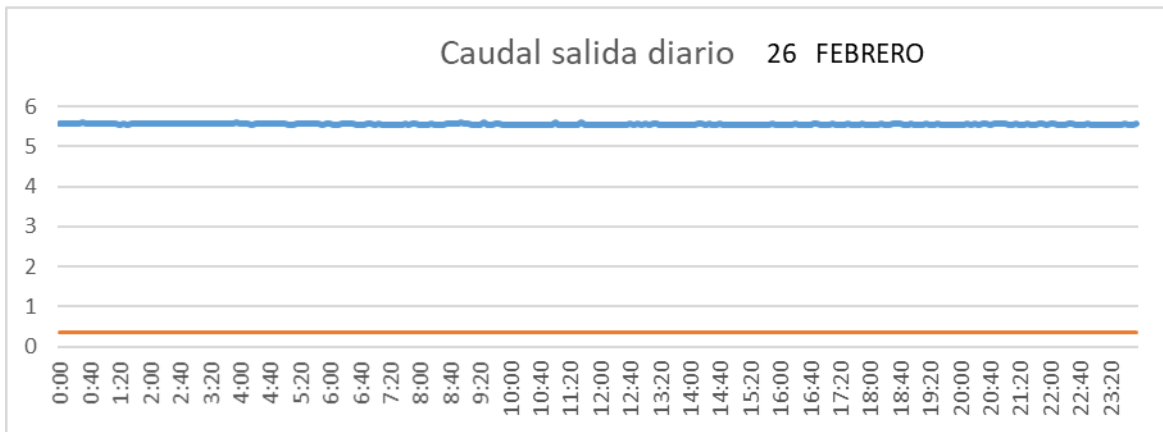
CUENCA



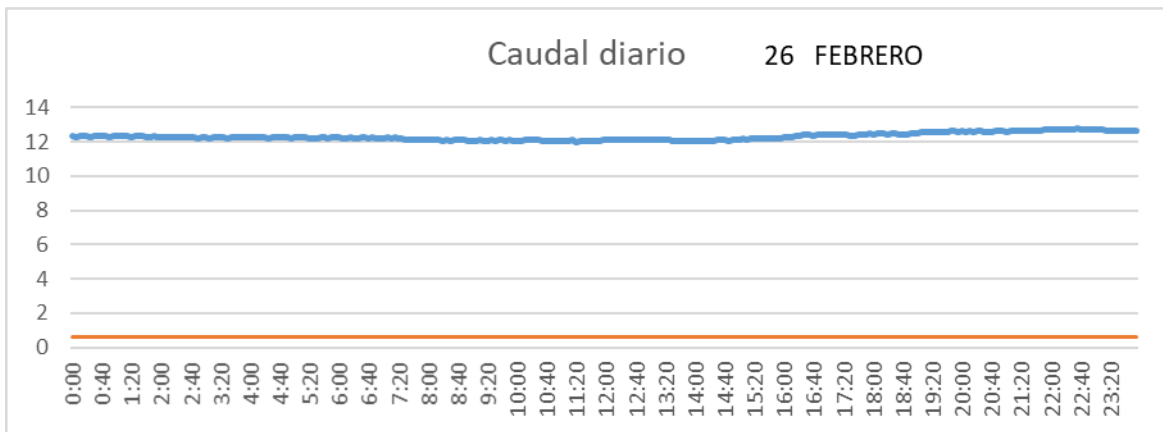
SAN LORENZO PARRILLA



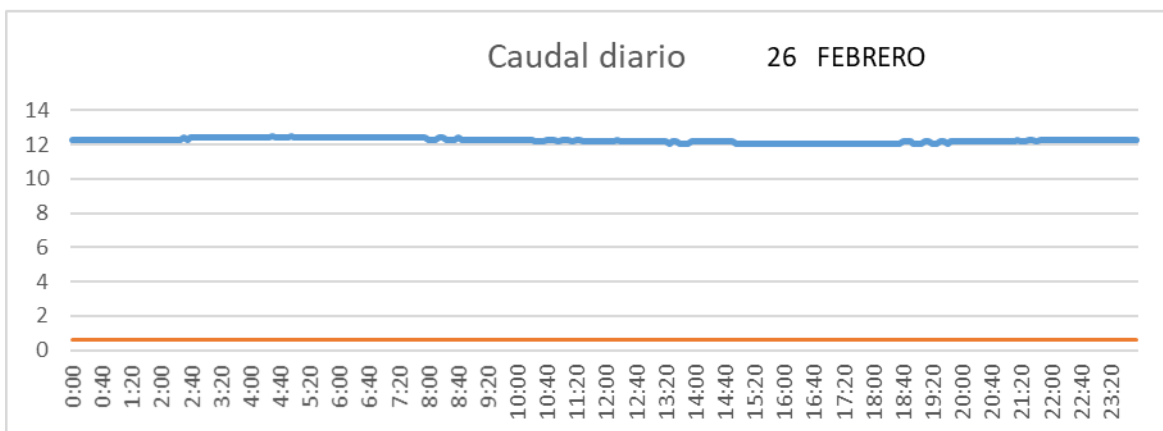
SALIDA TOBA



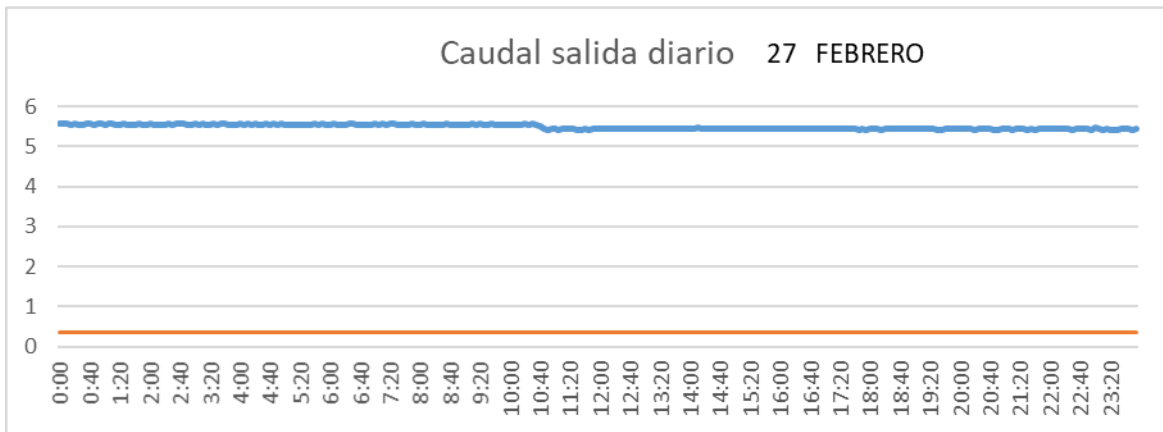
CUENCA



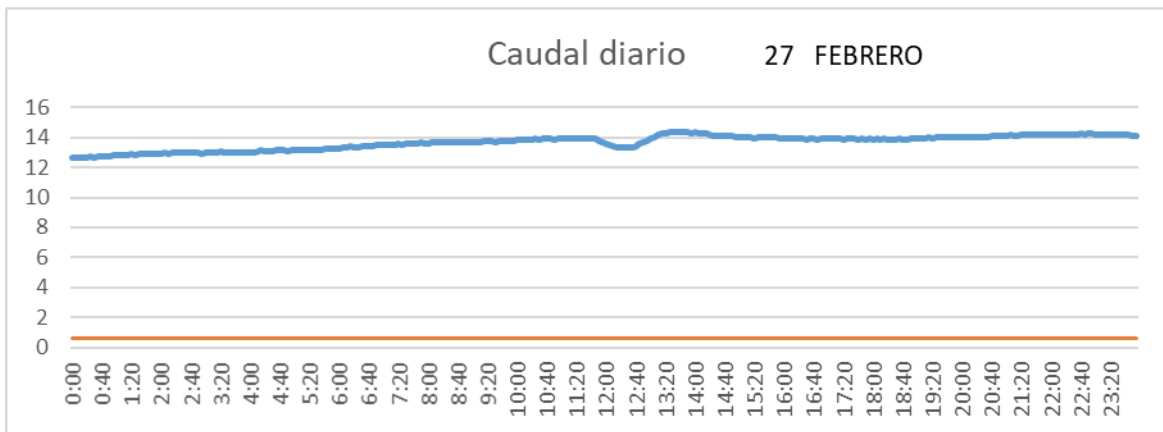
SAN LORENZO PARRILLA



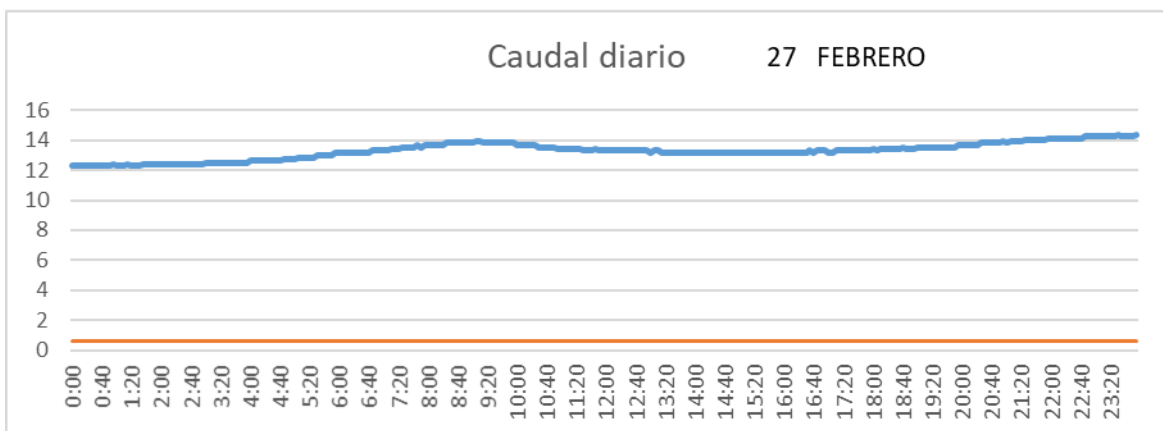
SALIDA TOBA



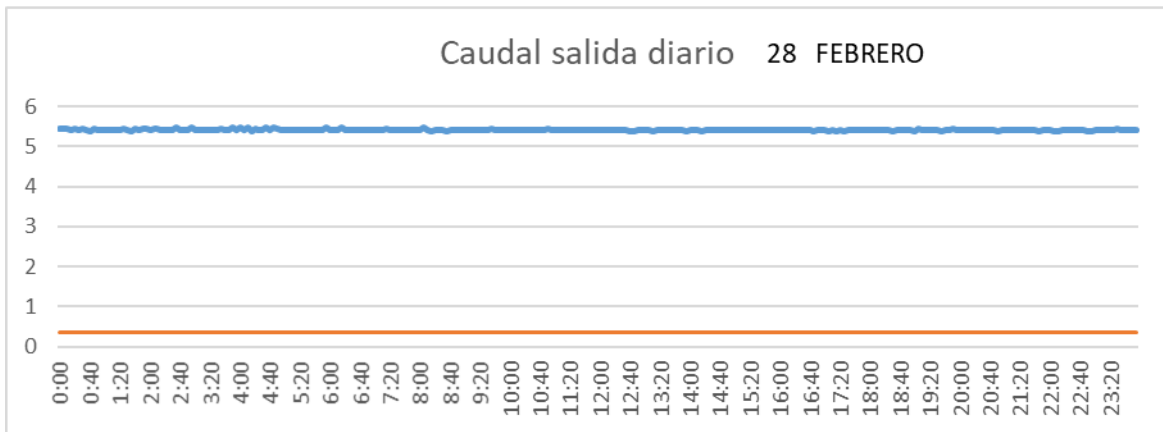
CUENCA



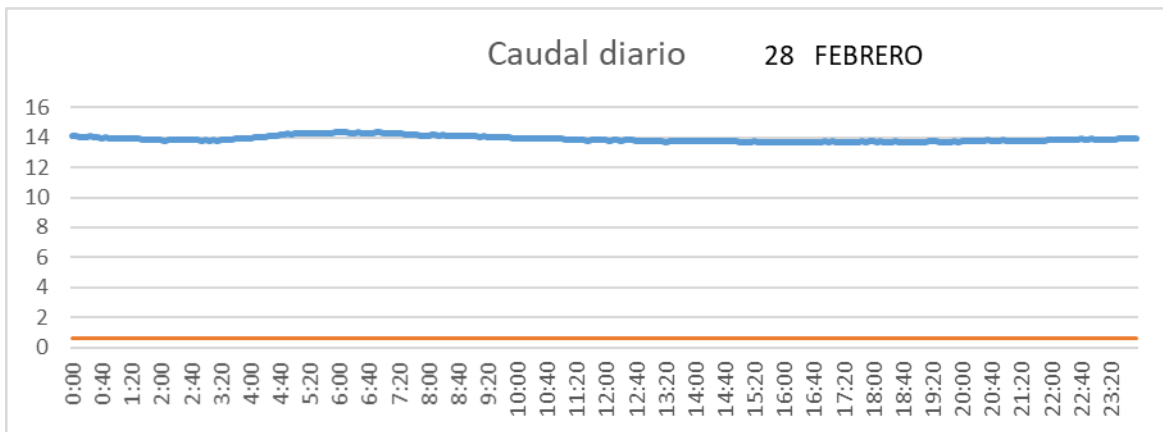
SAN LORENZO PARRILLA



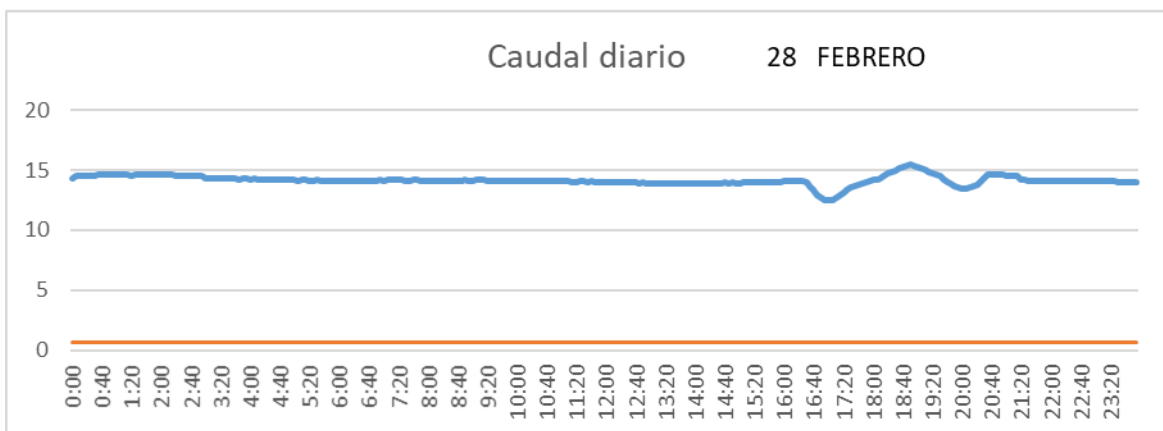
SALIDA TOBA



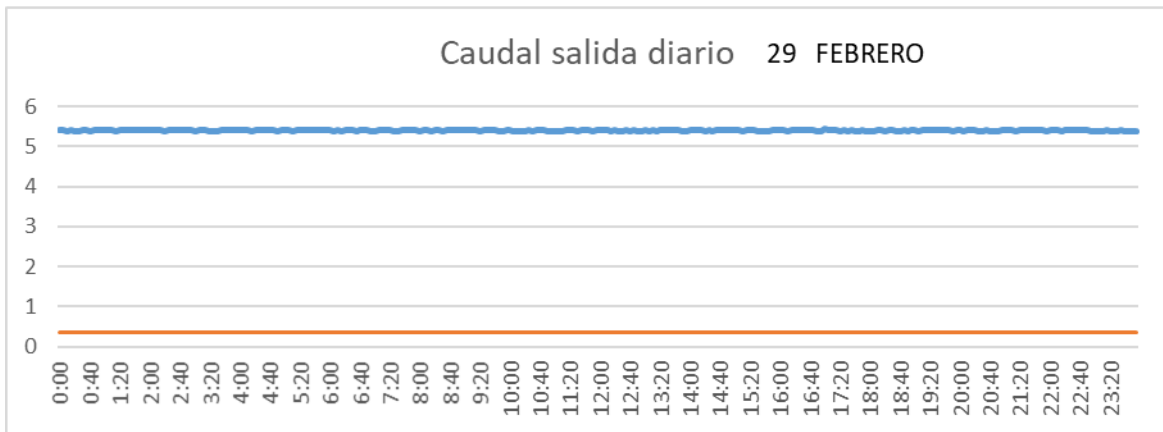
CUENCA



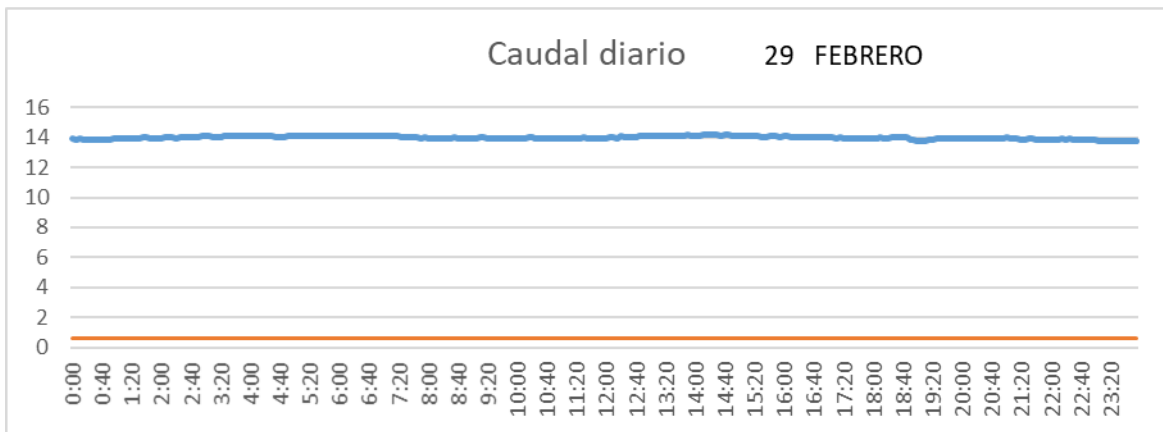
SAN LORENZO PARRILLA



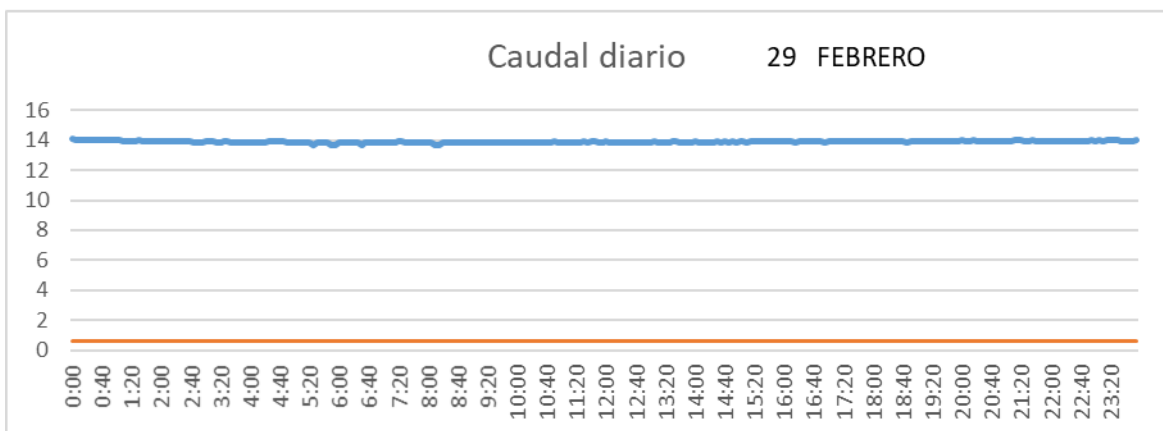
SALIDA TOBA



CUENCA

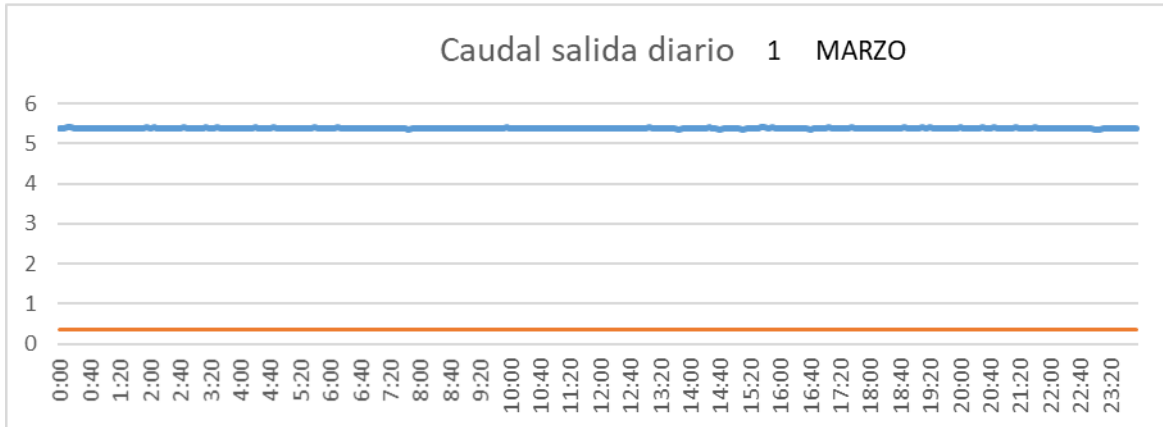


SAN LORENZO PARRILLA

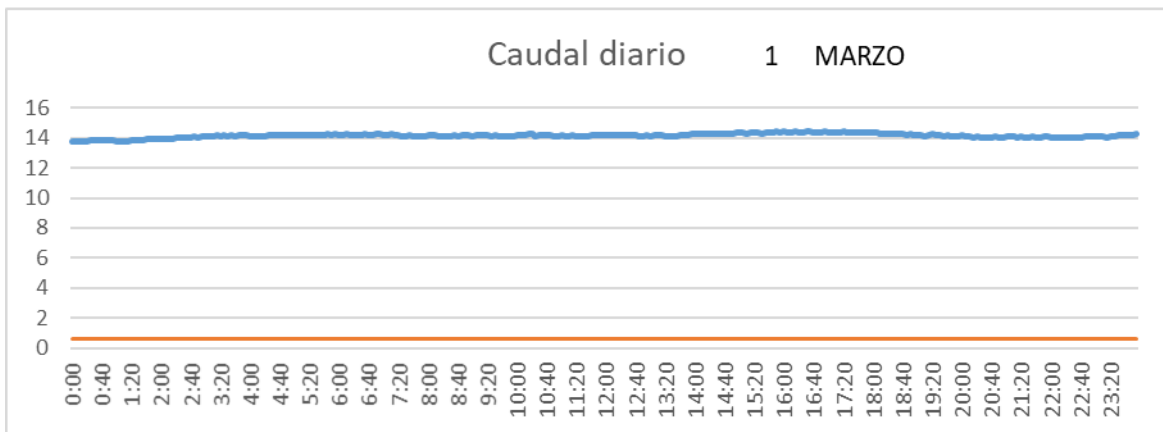


2.2.3 Marzo

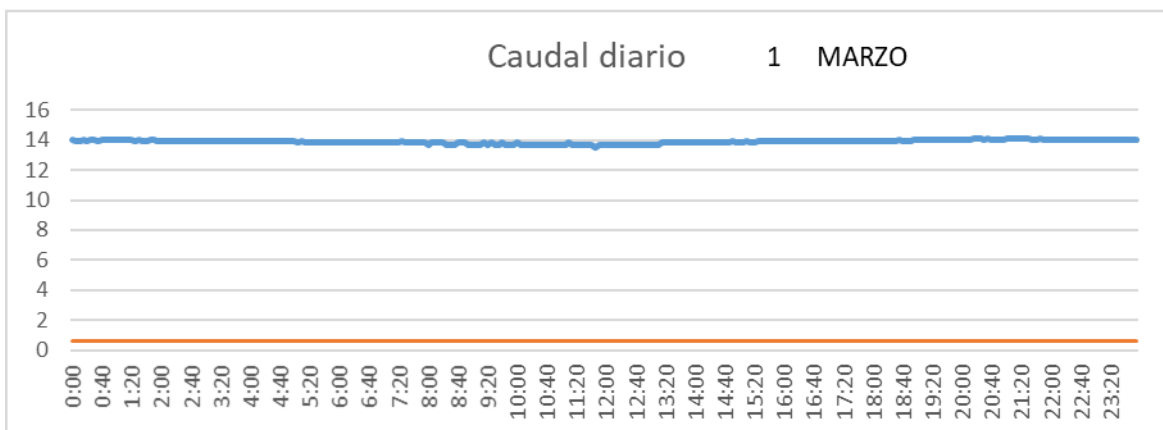
SALIDA TOBA



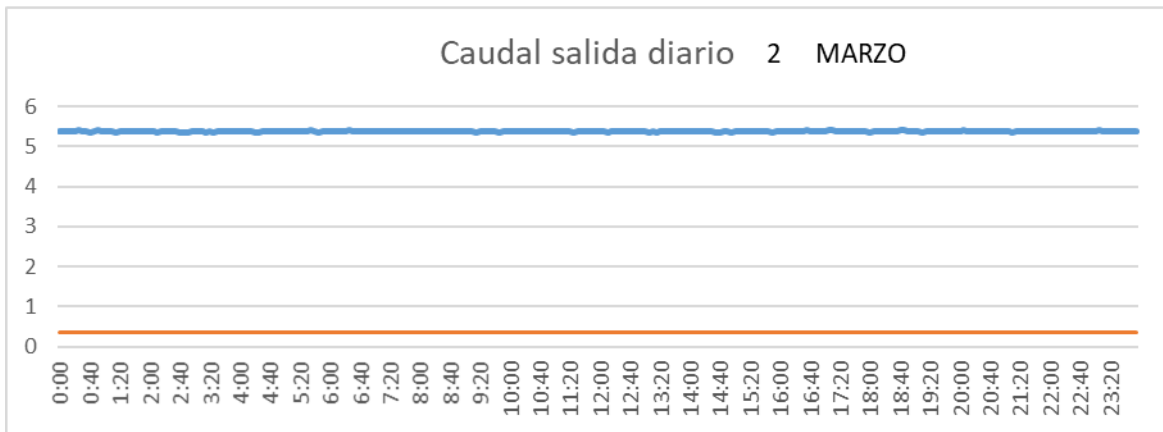
CUENCA



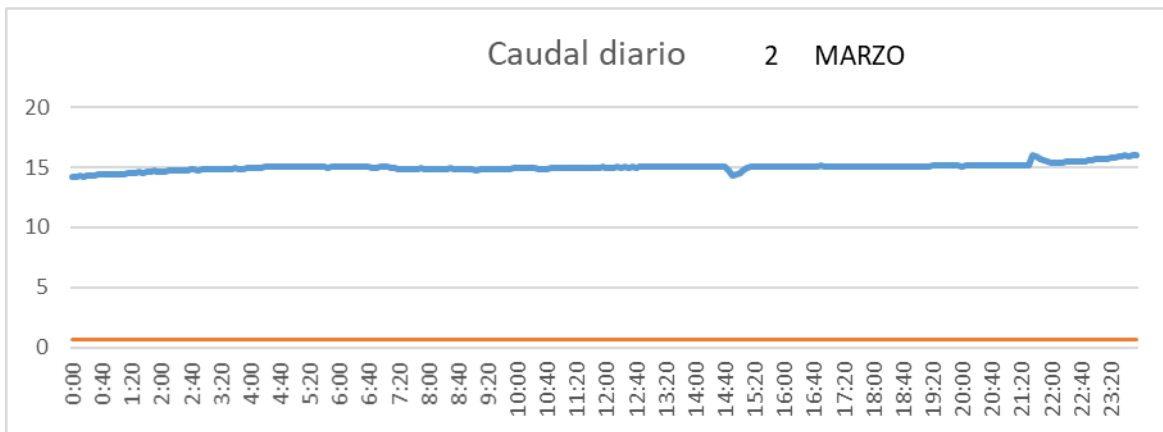
SAN LORENZO PARRILLA



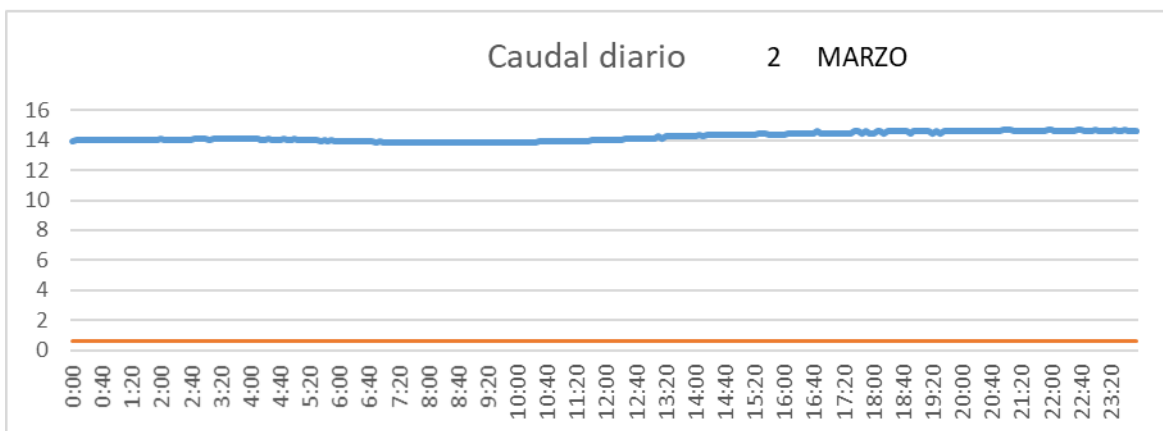
SALIDA TOBA



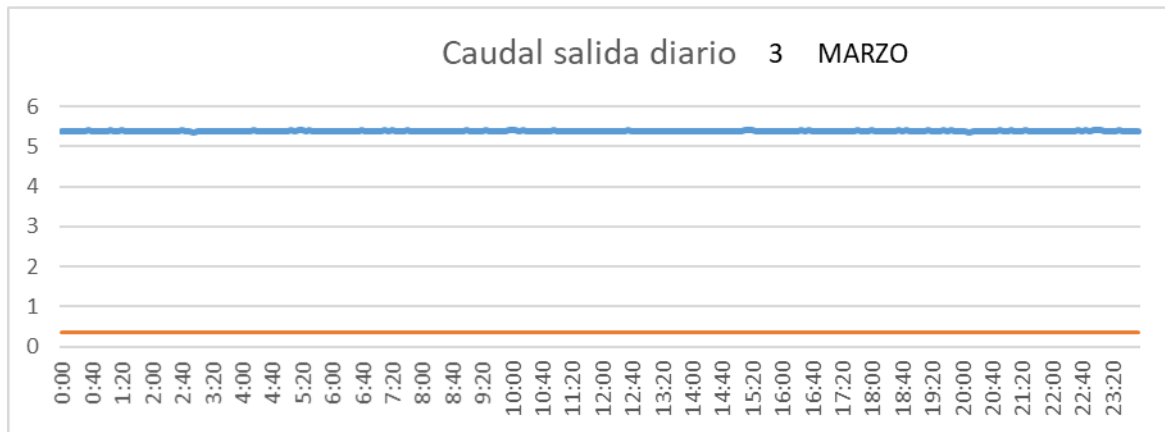
CUENCA



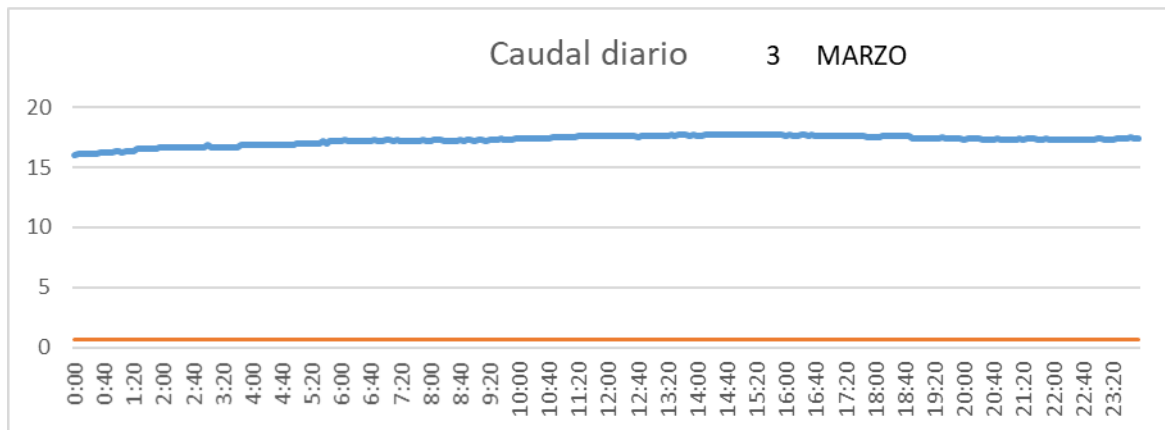
SAN LORENZO PARRILLA



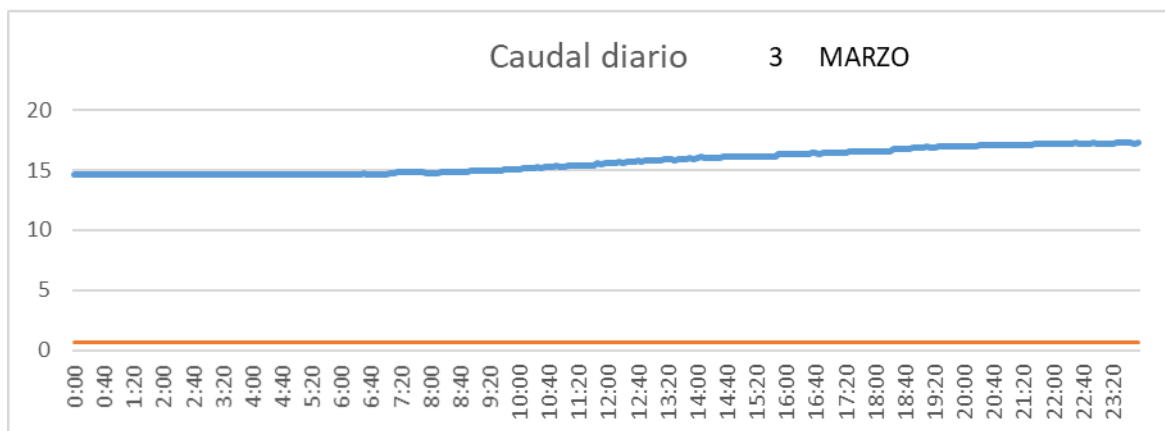
SALIDA TOBA



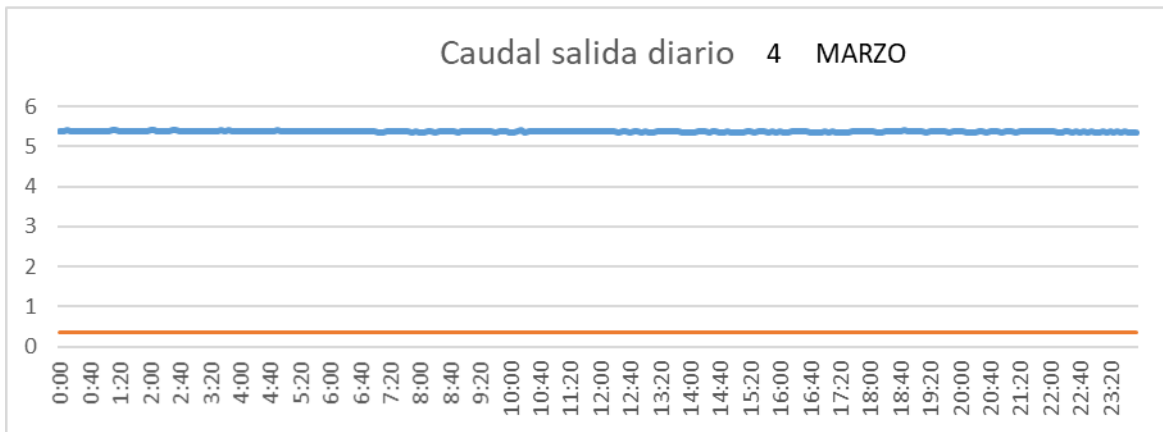
CUENCA



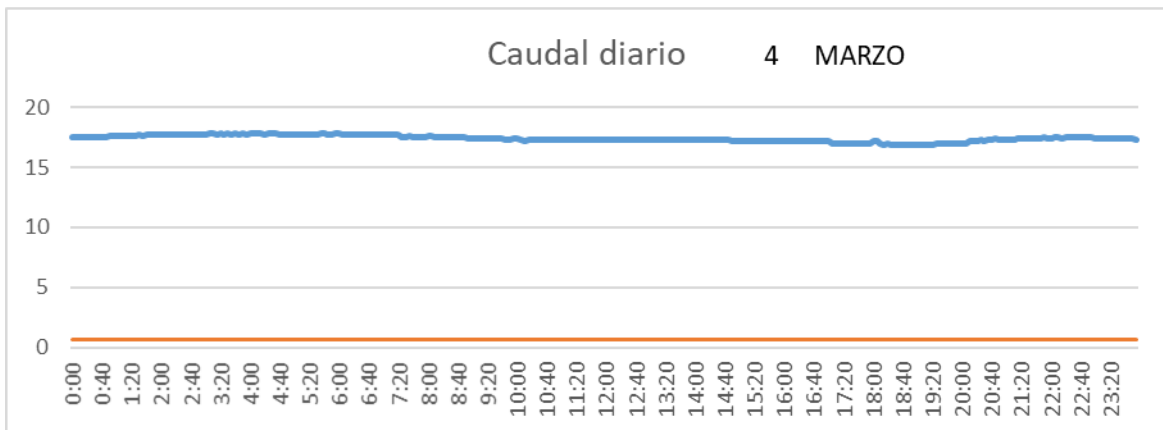
SAN LORENZO PARRILLA



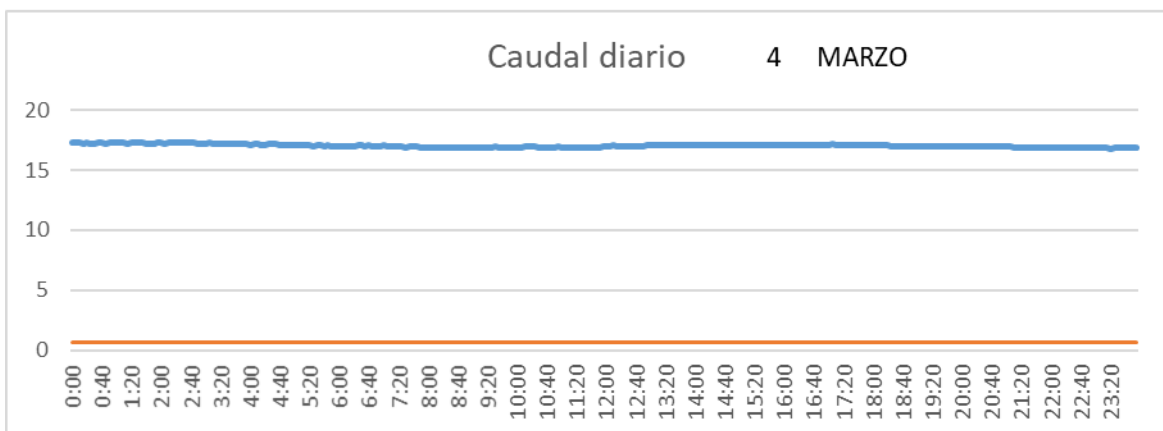
SALIDA TOBA



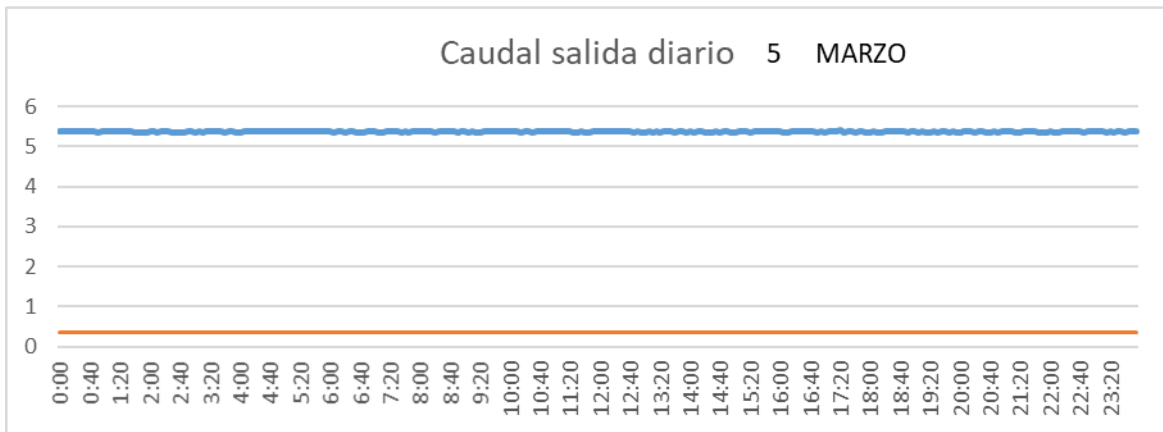
CUENCA



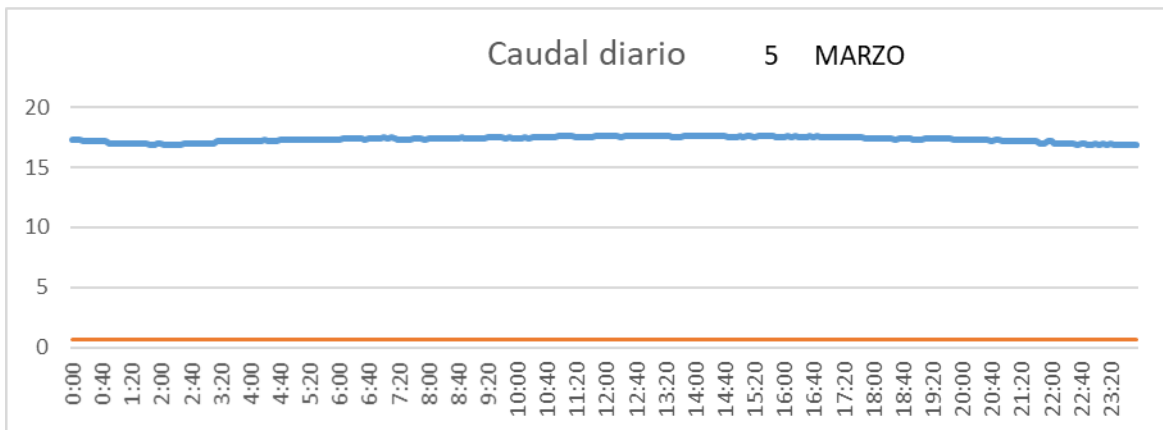
SAN LORENZO PARRILLA



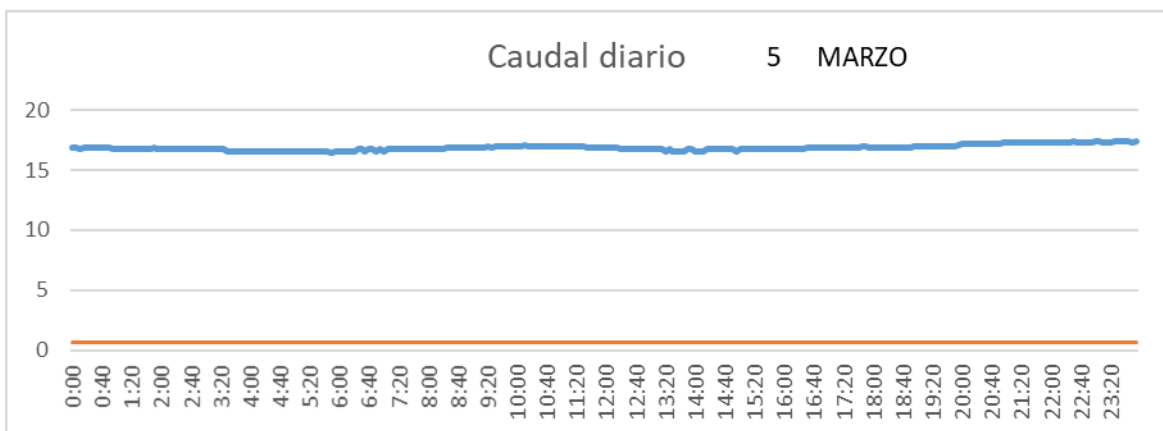
SALIDA TOBA



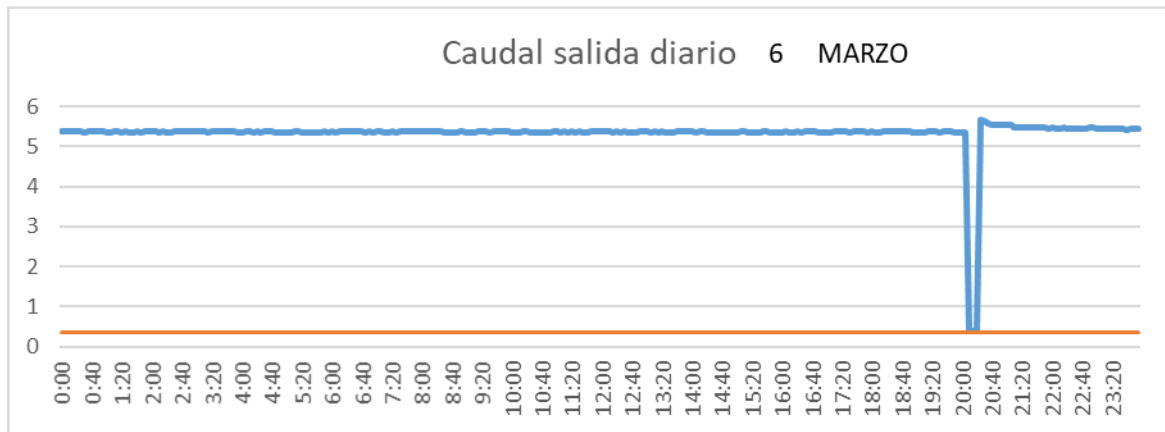
CUENCA



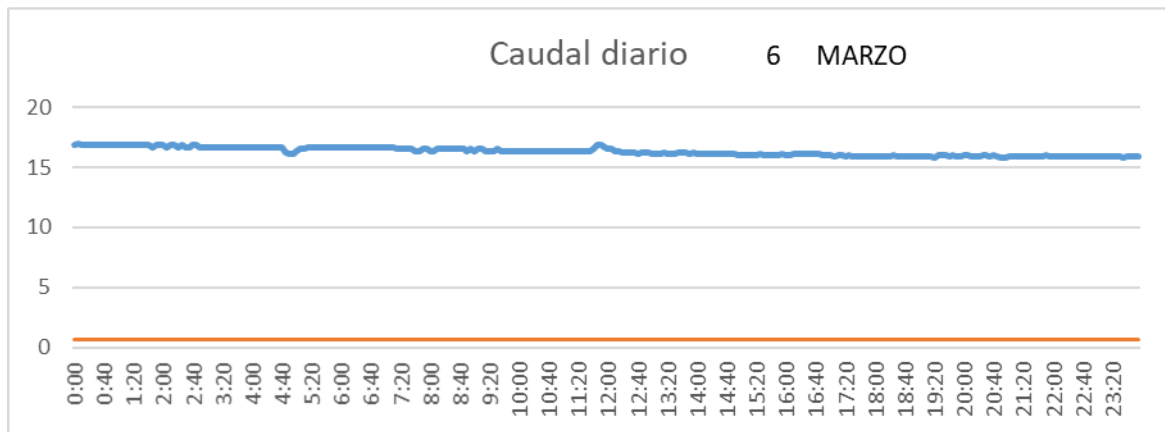
SAN LORENZO PARRILLA



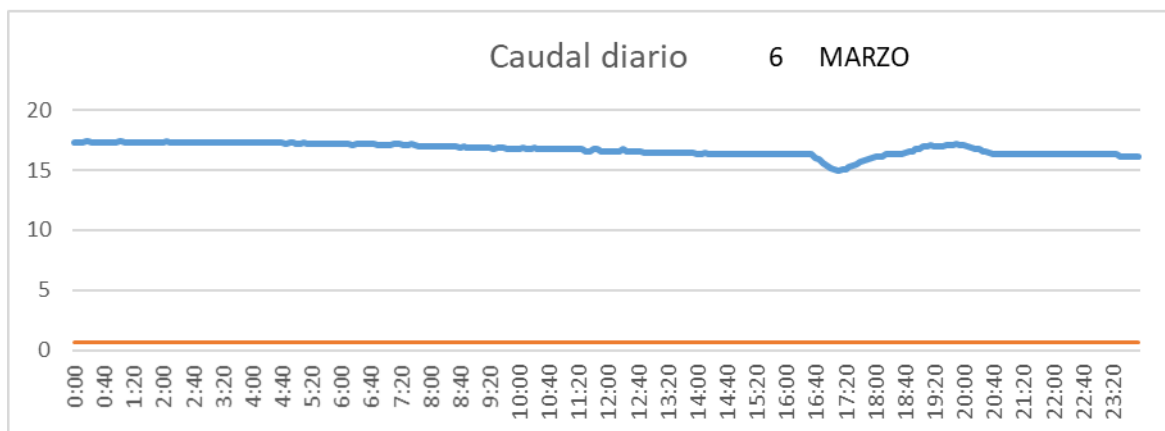
SALIDA TOBA



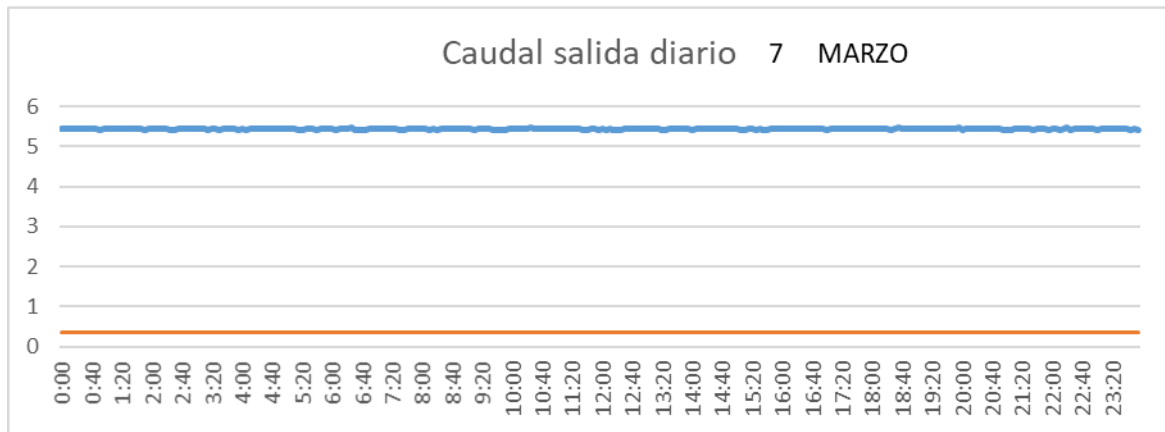
CUENCA



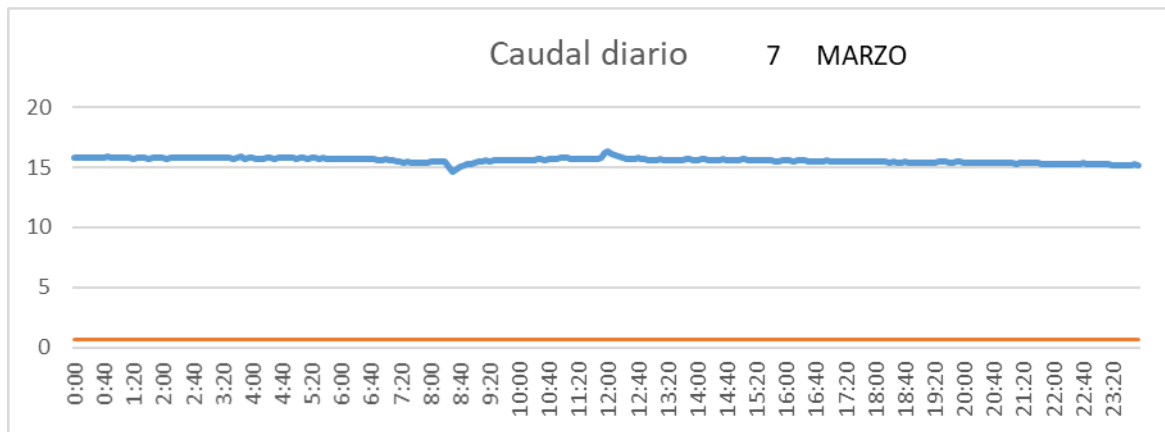
SAN LORENZO PARRILLA



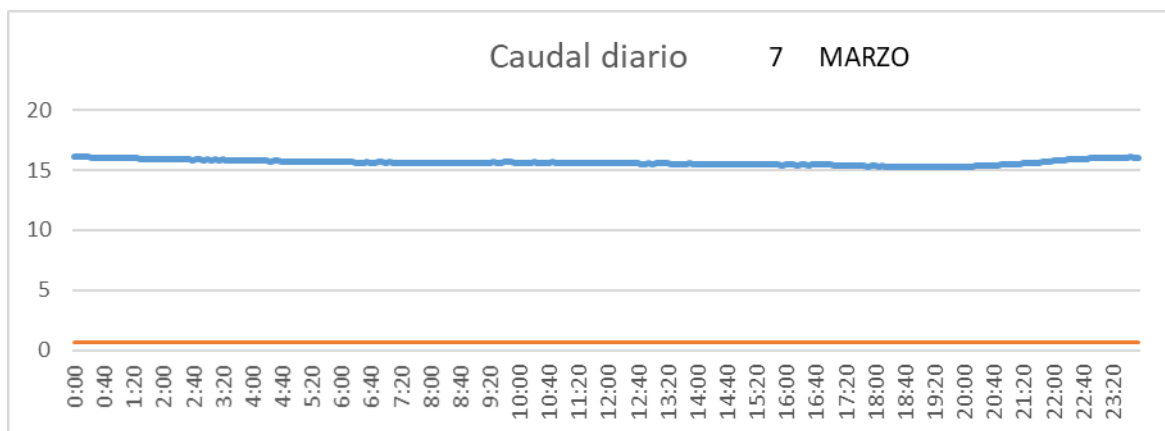
SALIDA TOBA



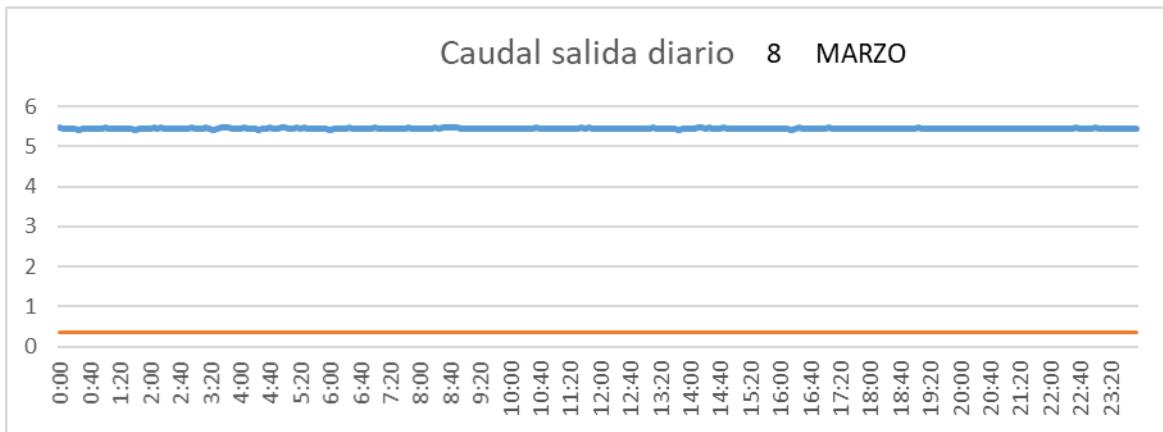
CUENCA



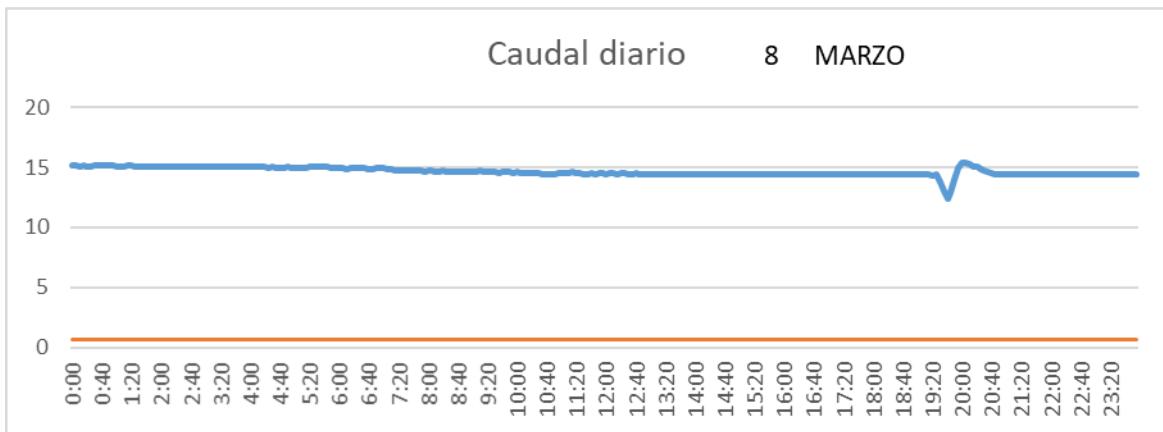
SAN LORENZO PARRILLA



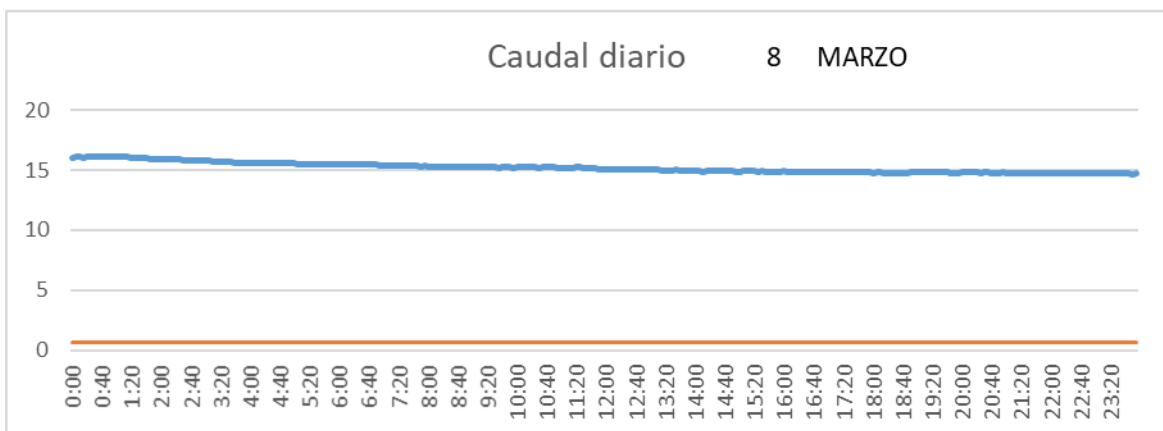
SALIDA TOBA



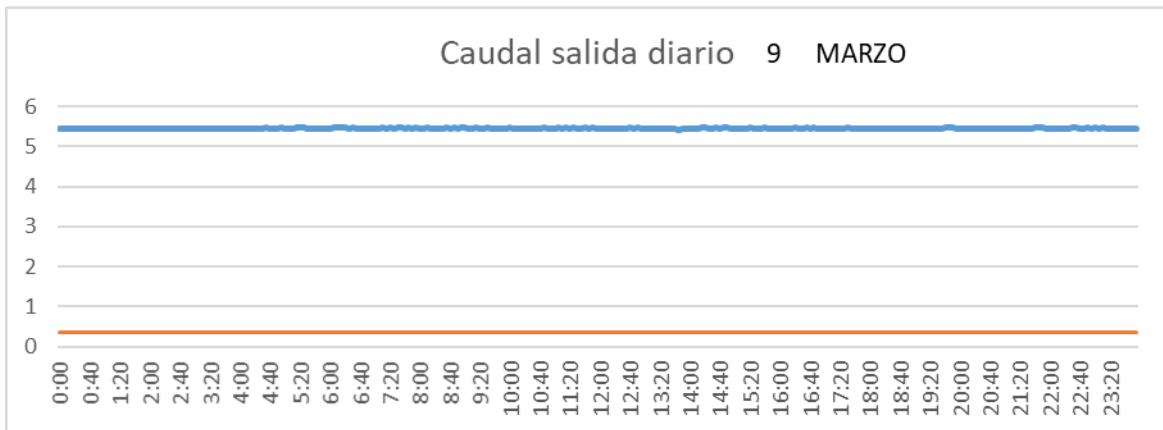
CUENCA



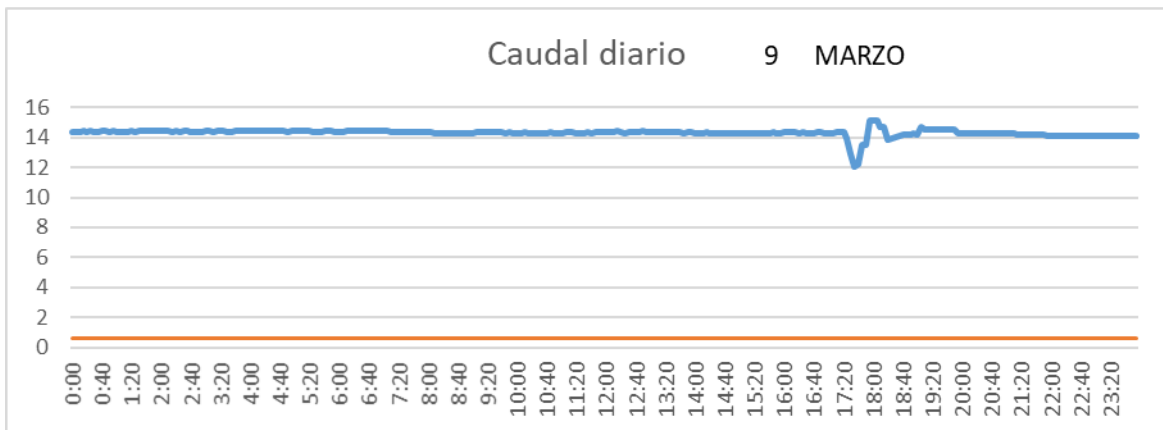
SAN LORENZO PARRILLA



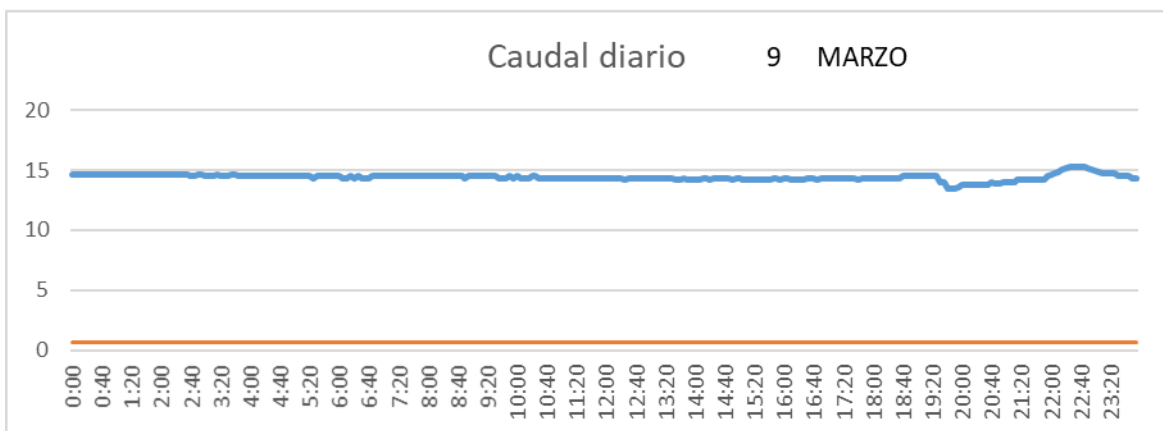
SALIDA TOBA



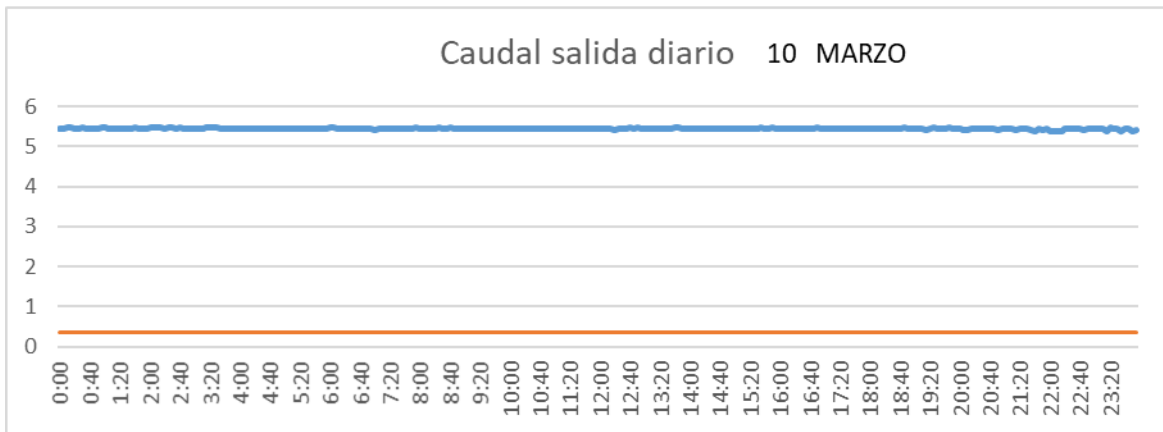
CUENCA



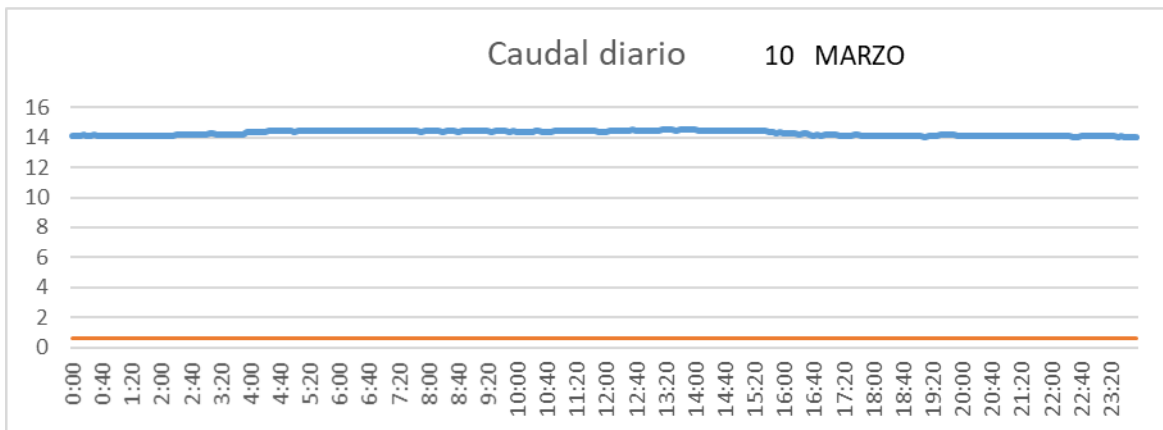
SAN LORENZO PARRILLA



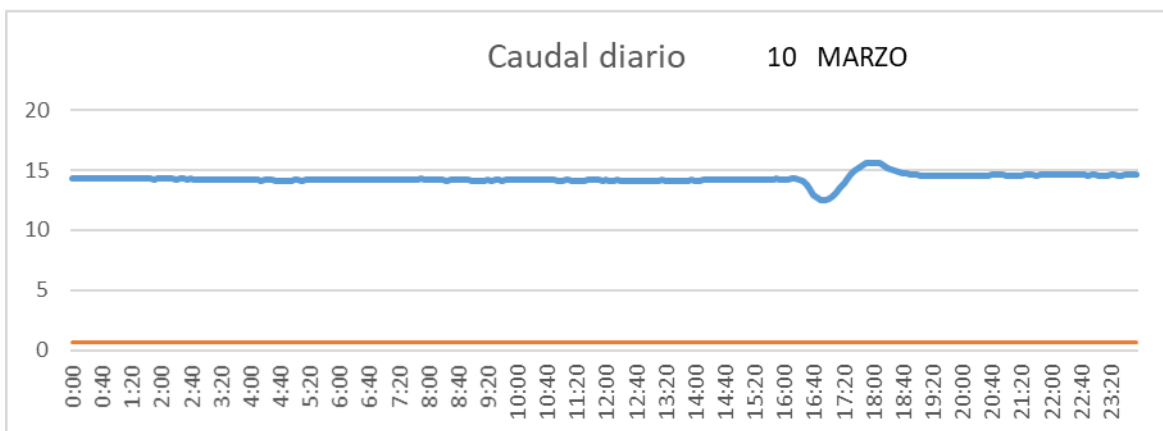
SALIDA TOBA



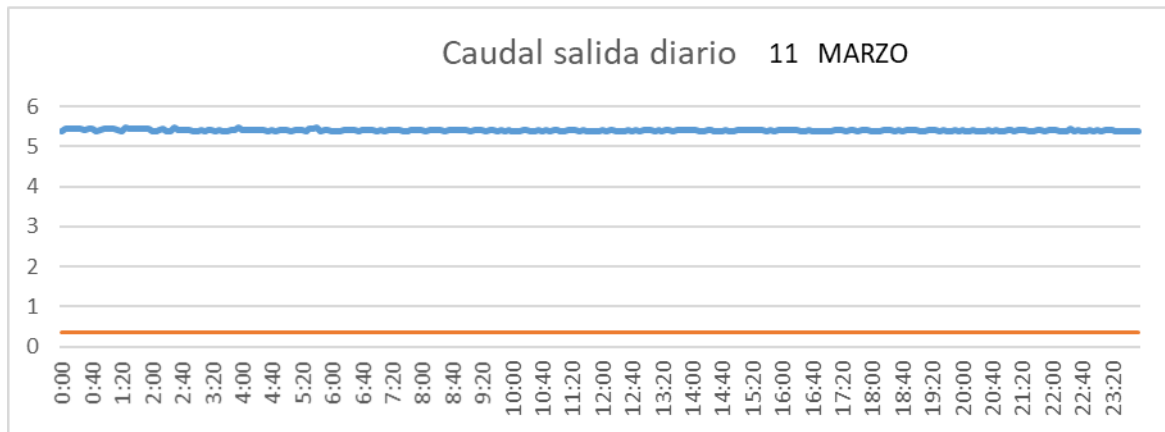
CUENCA



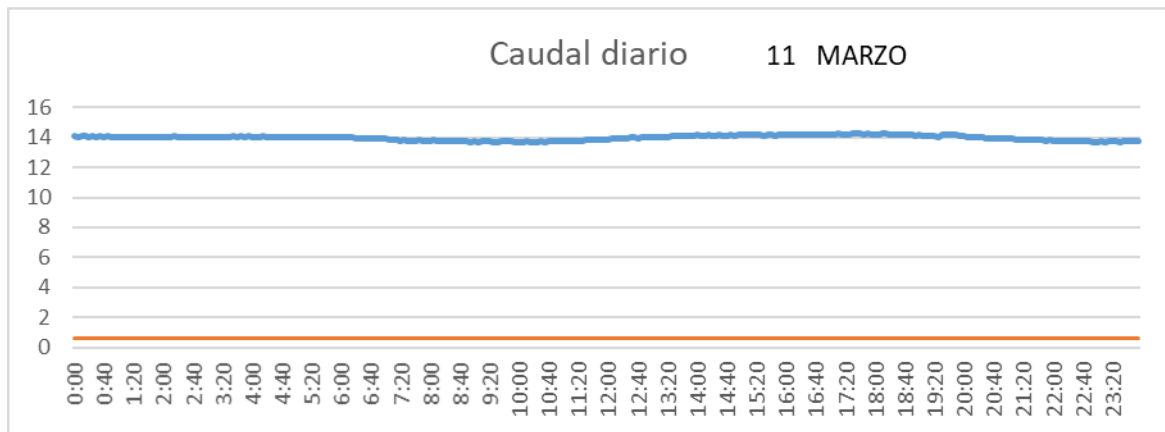
SAN LORENZO PARRILLA



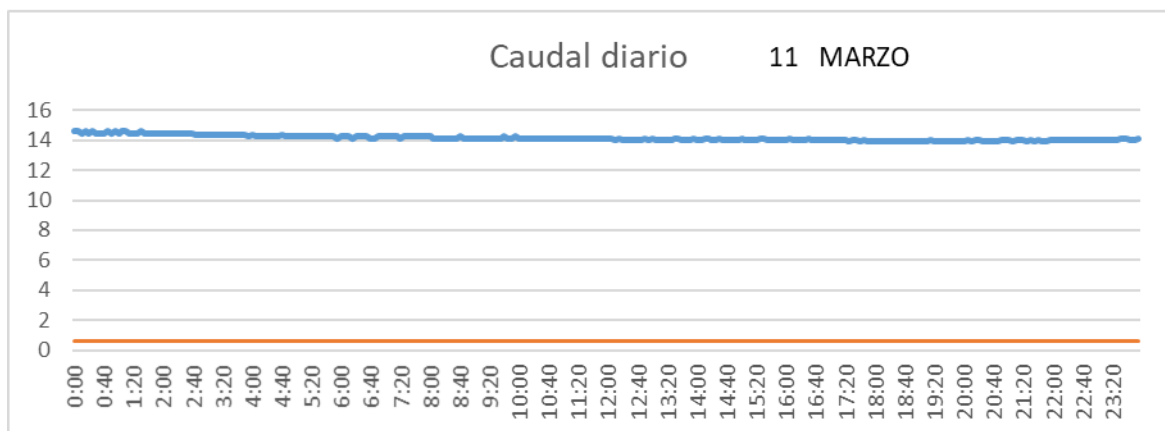
SALIDA TOBA



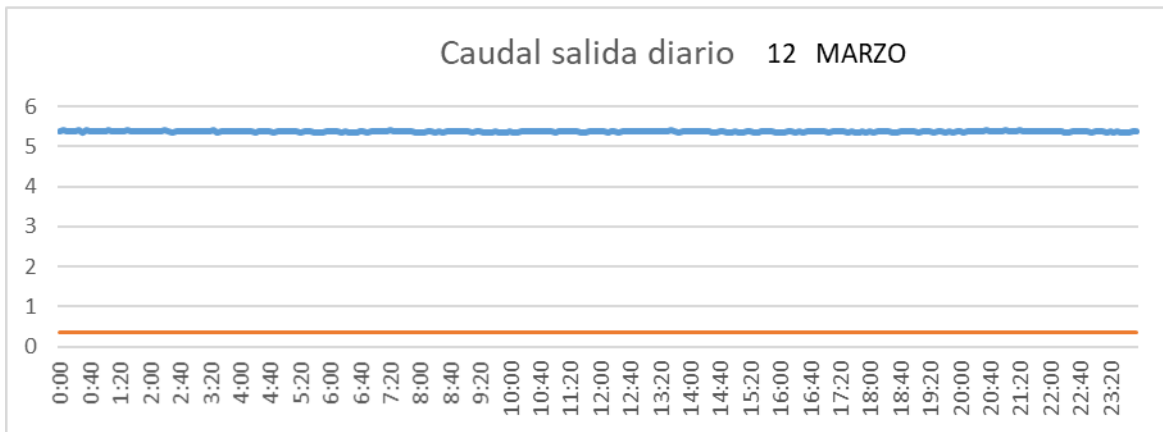
CUENCA



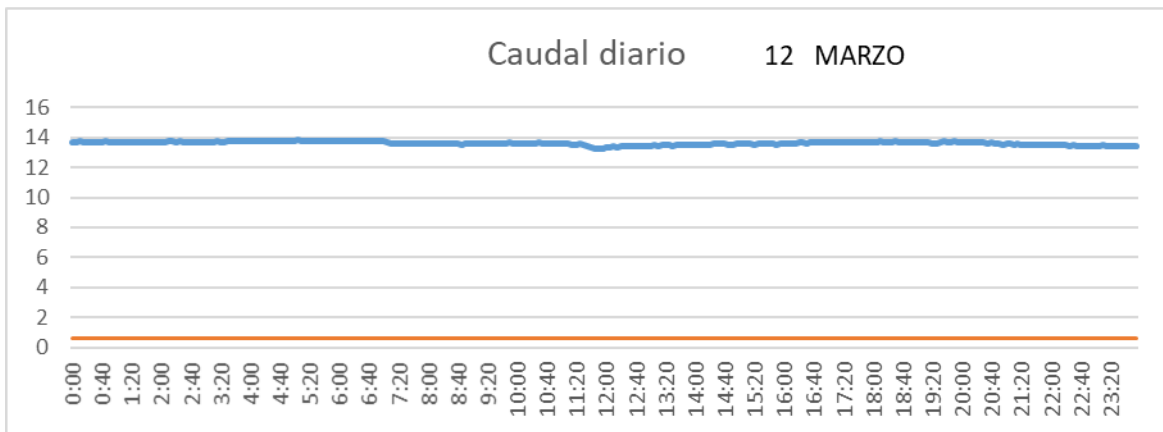
SAN LORENZO PARRILLA



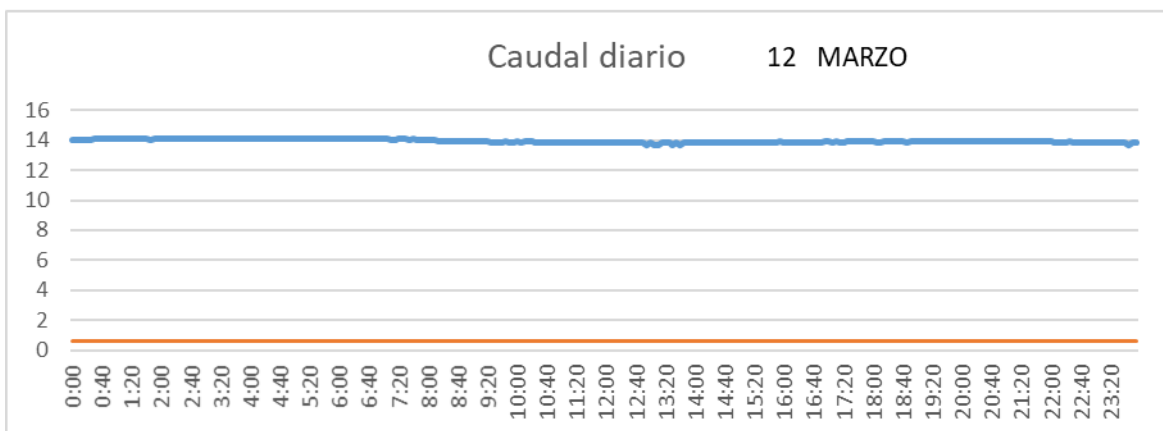
SALIDA TOBA



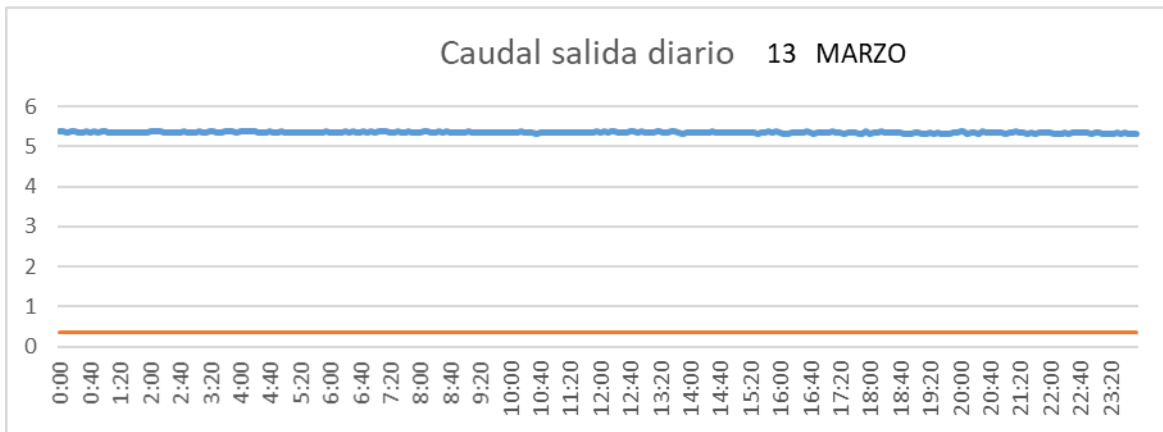
CUENCA



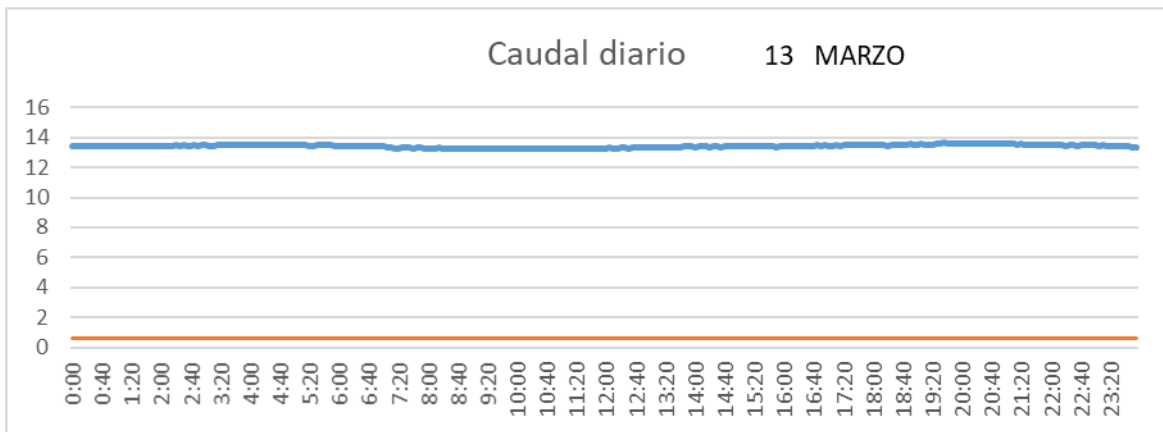
SAN LORENZO PARRILLA



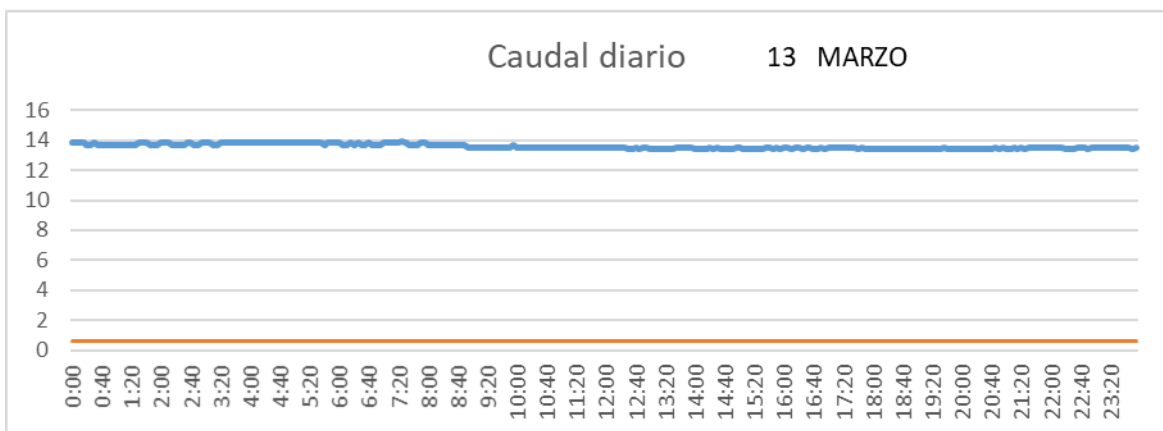
SALIDA TOBA



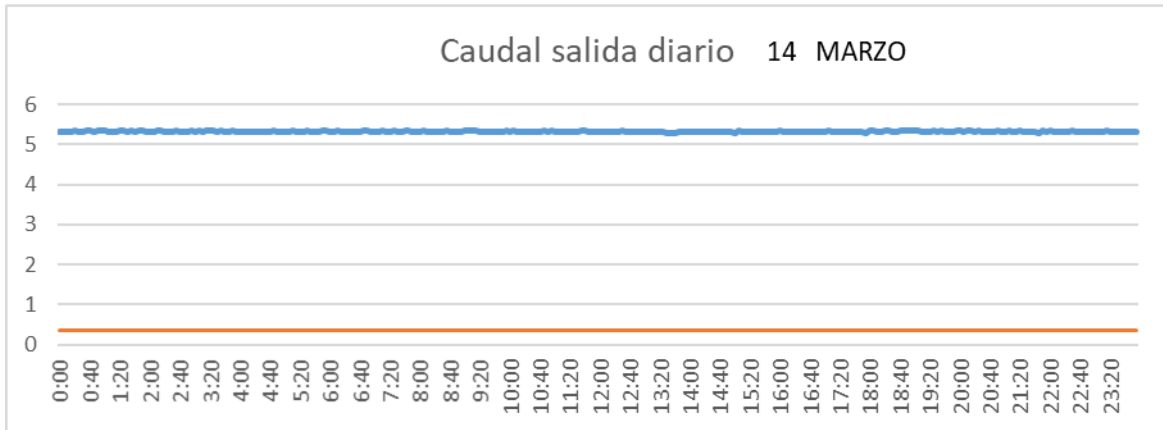
CUENCA



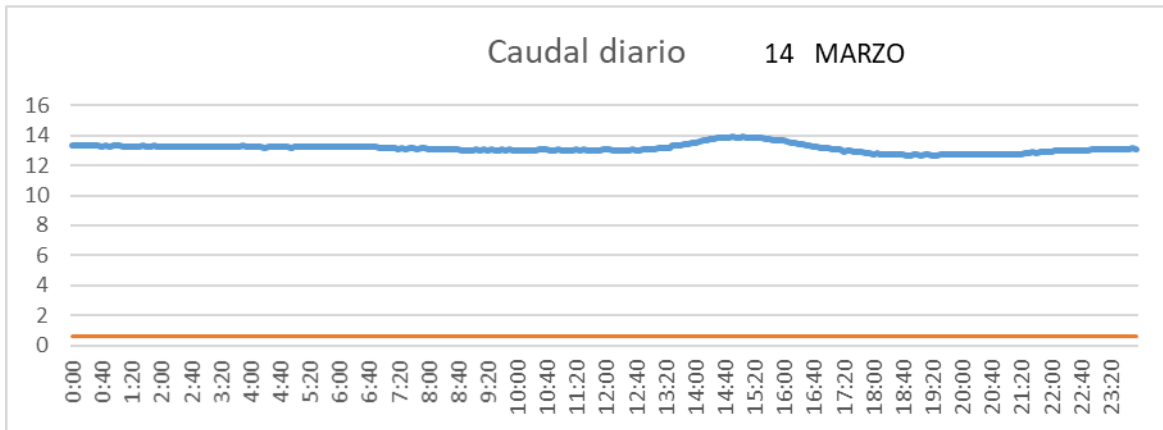
SAN LORENZO PARRILLA



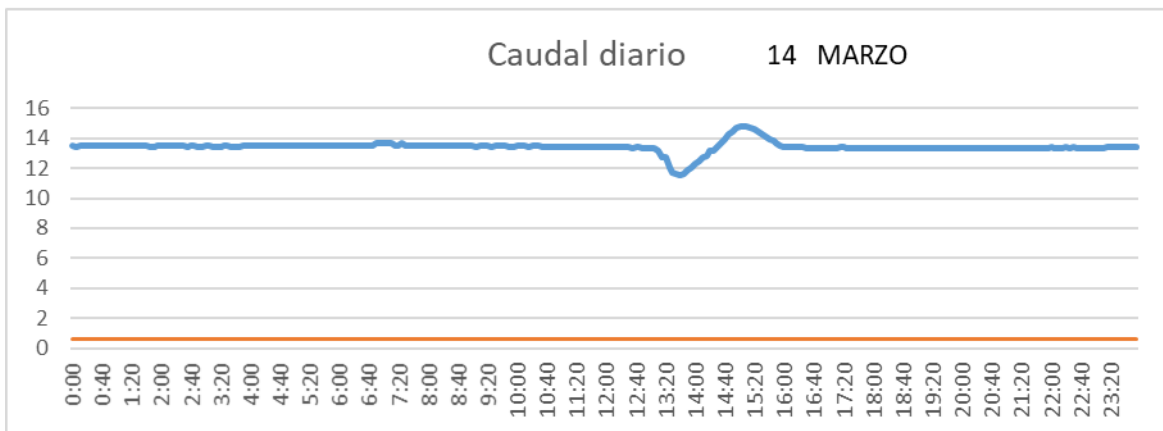
SALIDA TOBA



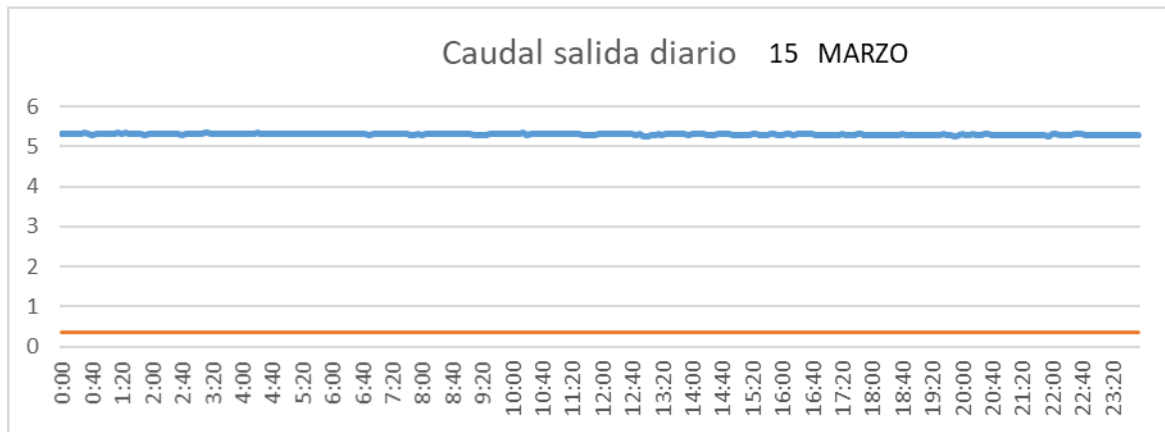
CUENCA



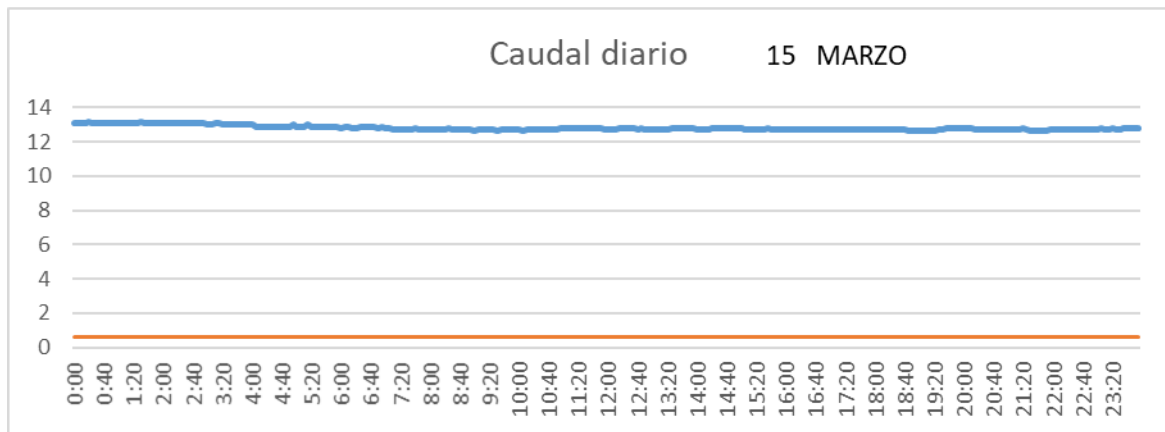
SAN LORENZO PARRILLA



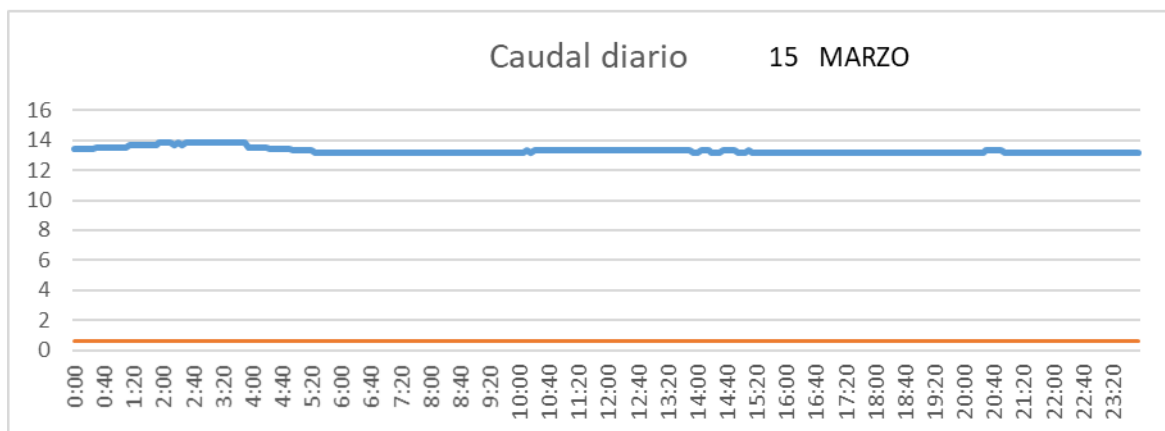
SALIDA TOBA



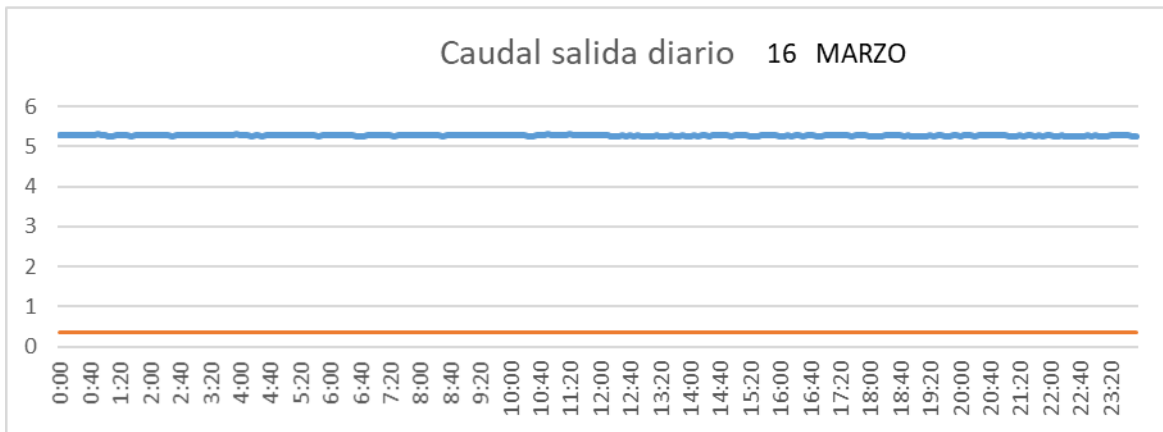
CUENCA



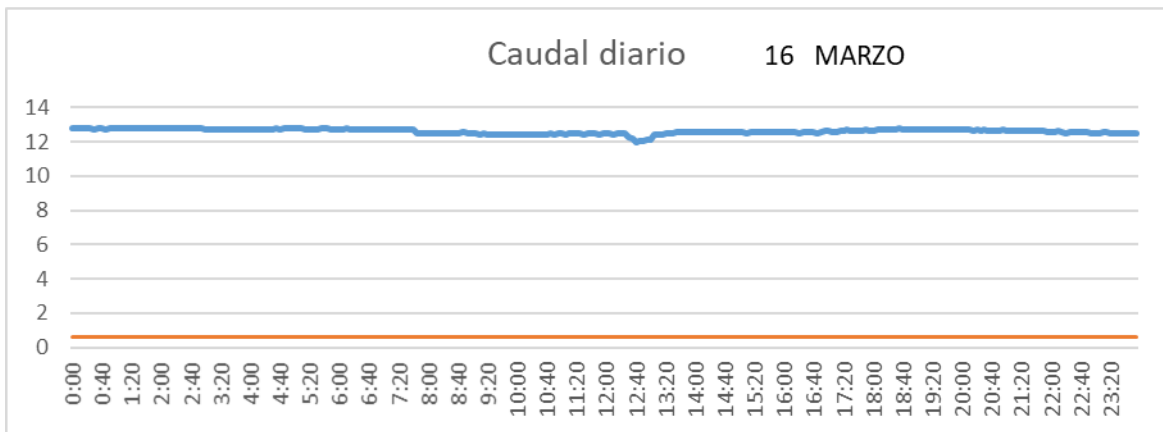
SAN LORENZO PARRILLA



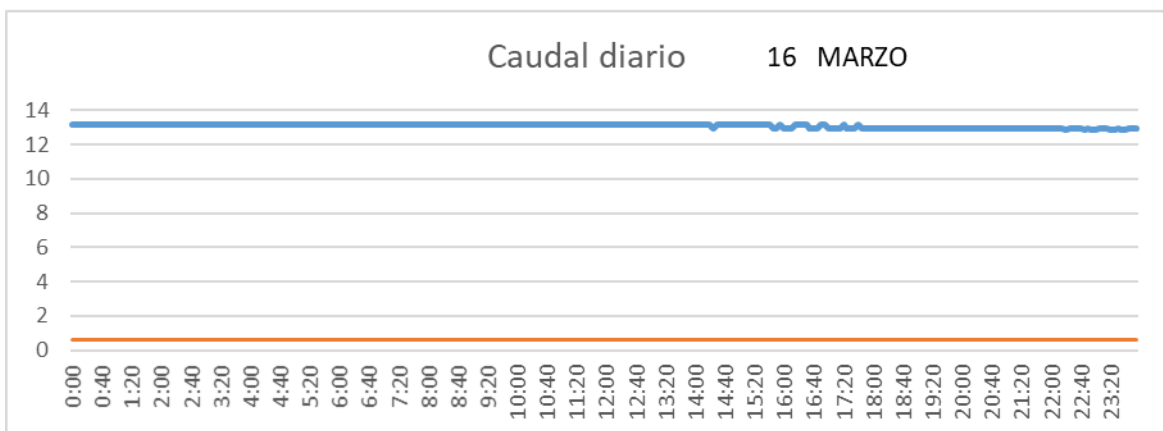
SALIDA TOBA



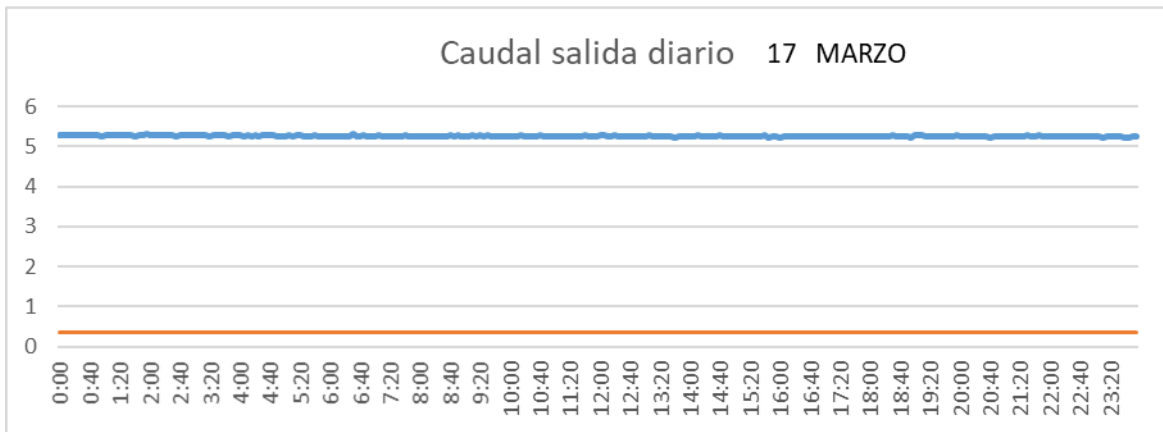
CUENCA



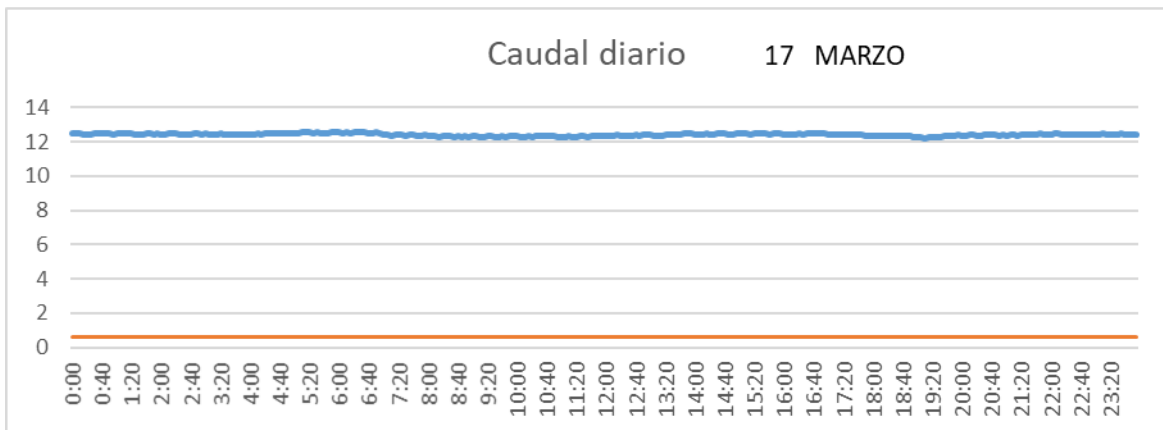
SAN LORENZO PARRILLA



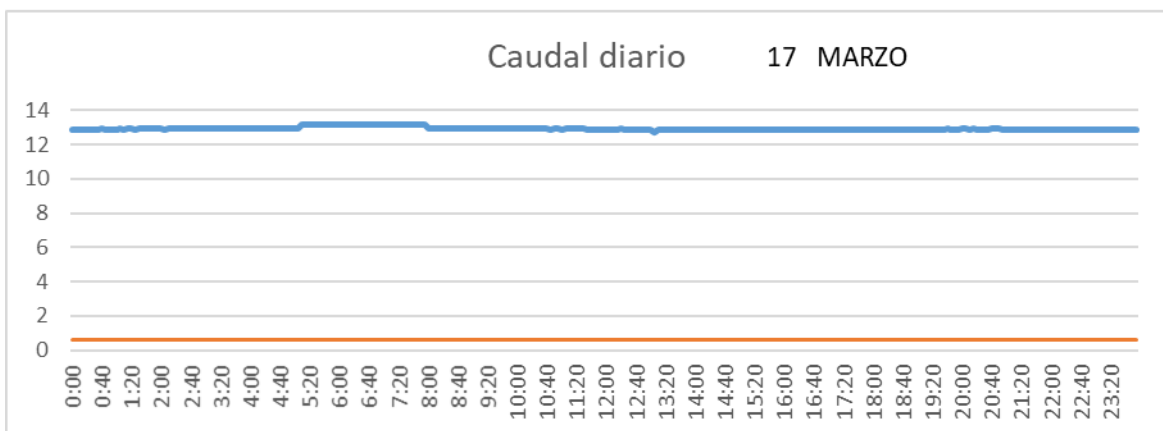
SALIDA TOBA



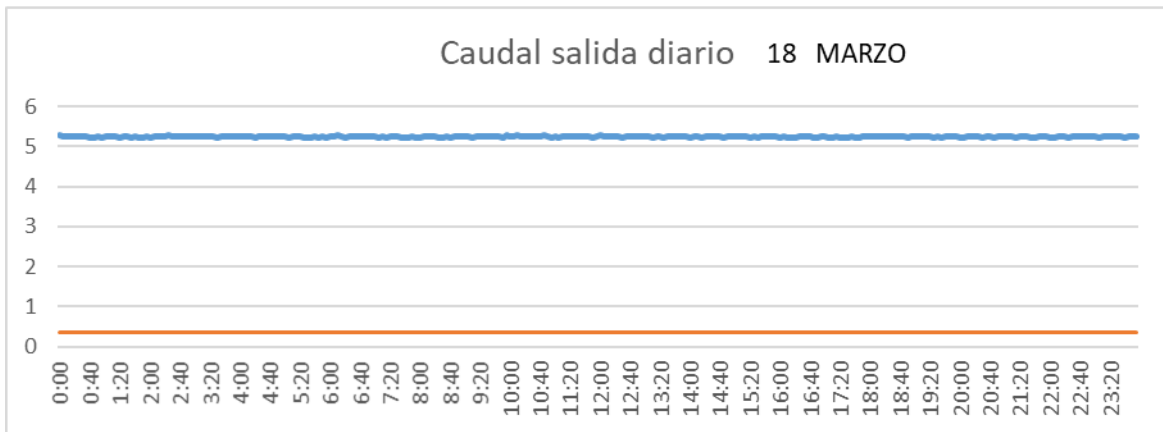
CUENCA



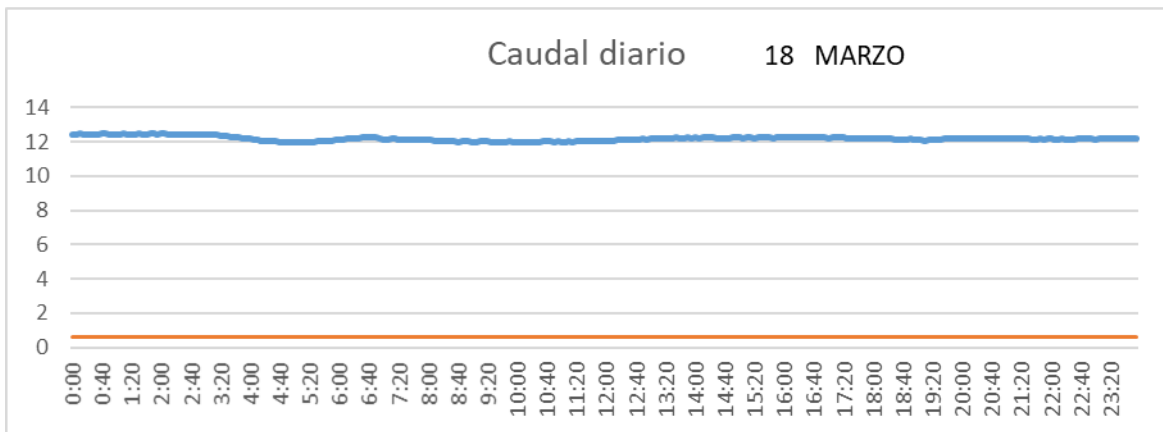
SAN LORENZO PARRILLA



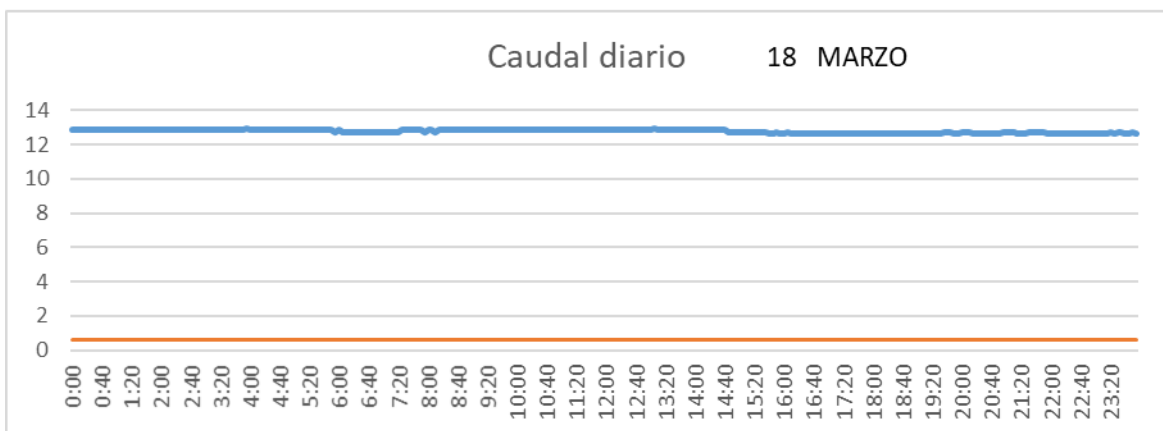
SALIDA TOBA



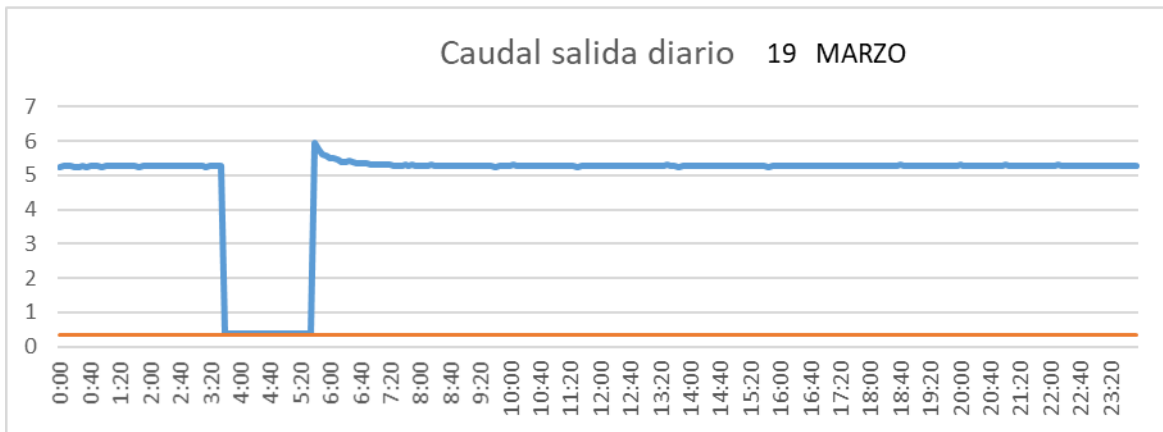
CUENCA



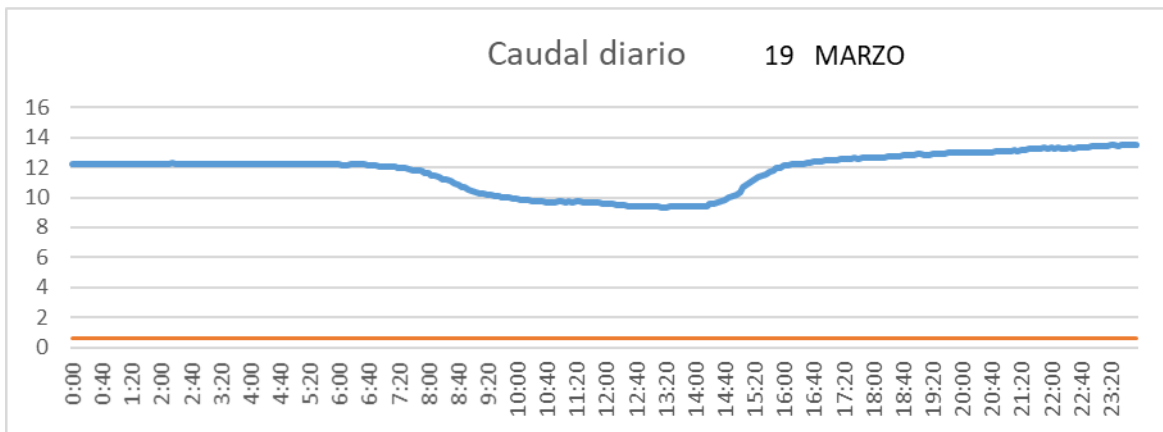
SAN LORENZO PARRILLA



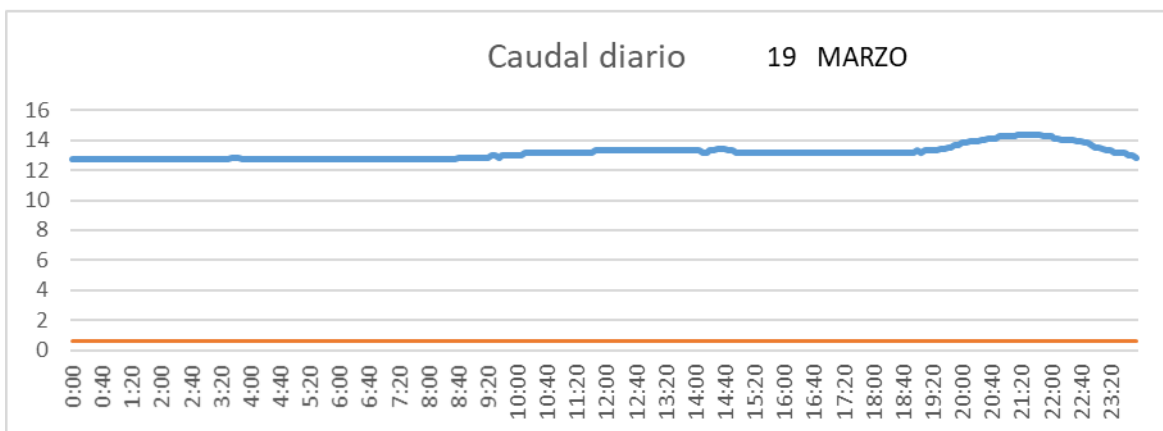
SALIDA TOBA



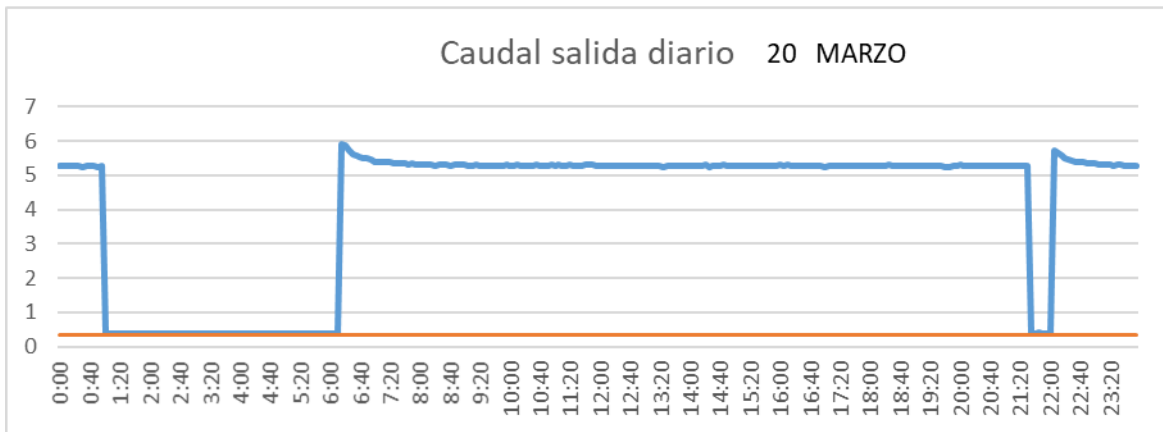
CUENCA



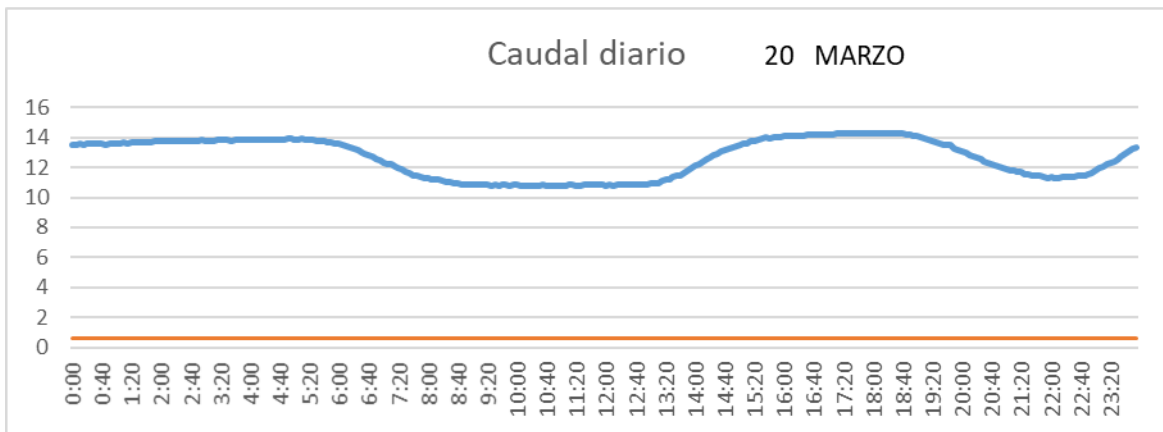
SAN LORENZO PARRILLA



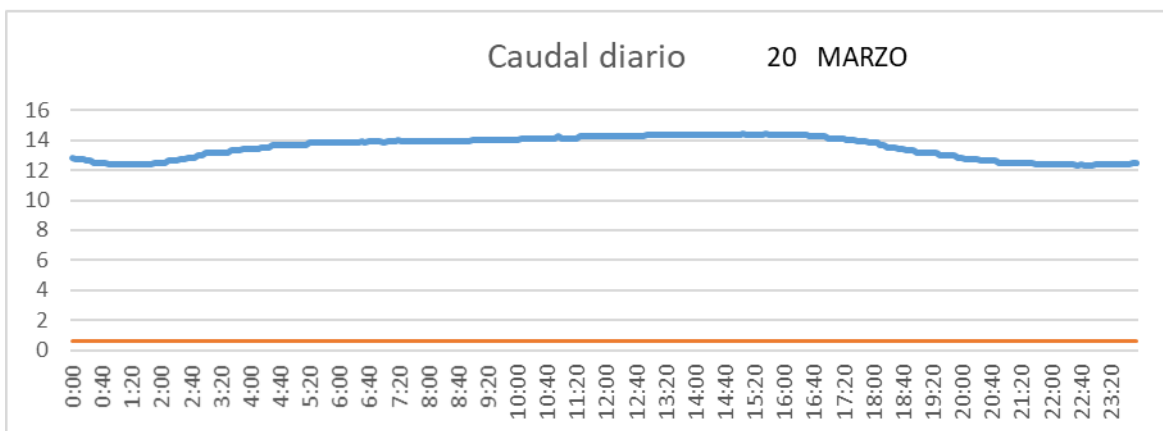
SALIDA TOBA



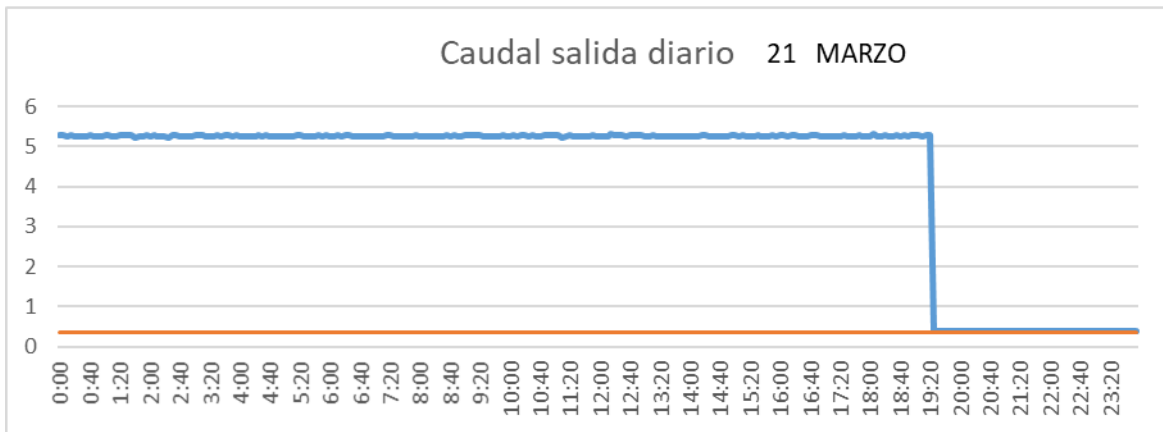
CUENCA



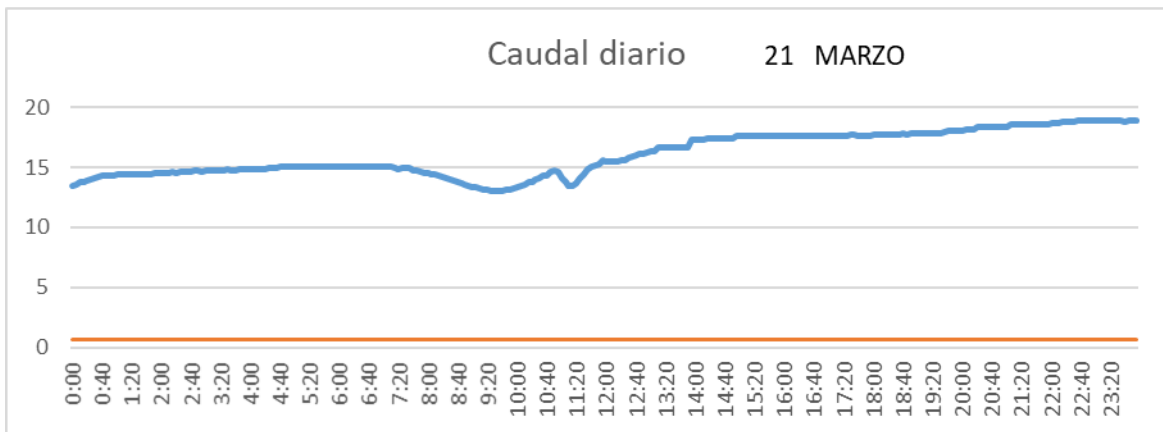
SAN LORENZO PARRILLA



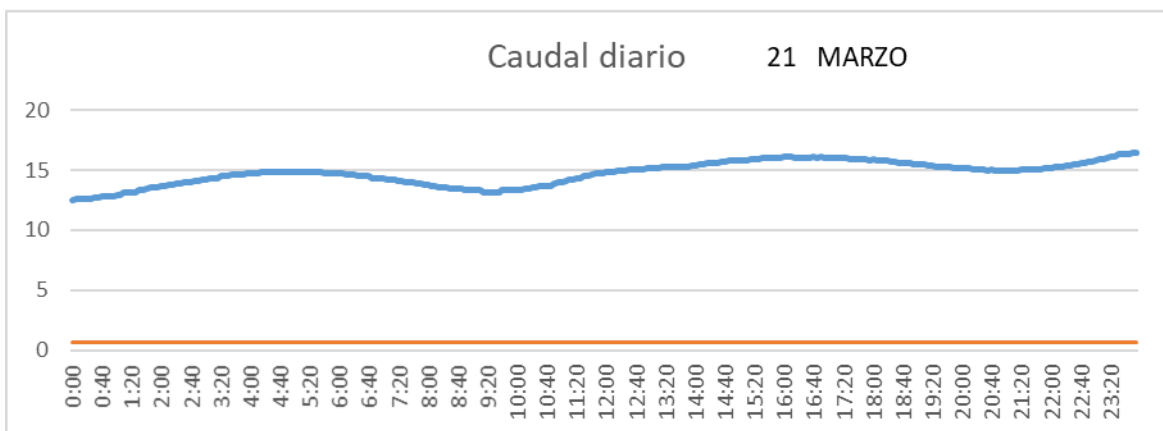
SALIDA TOBA



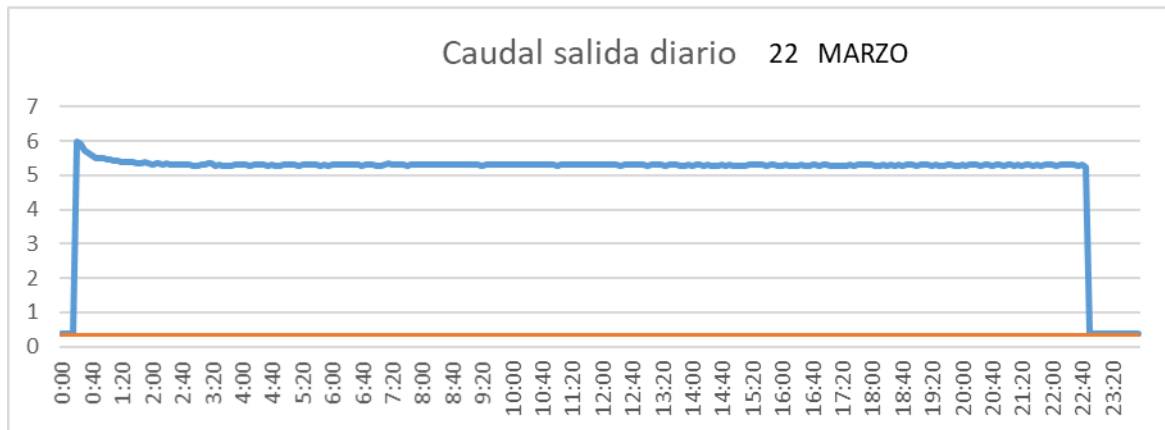
CUENCA



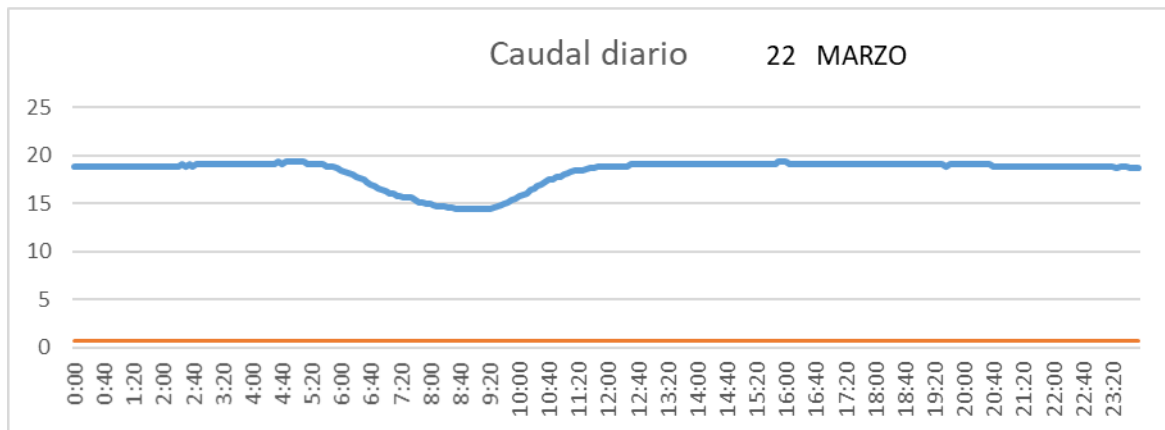
SAN LORENZO PARRILLA



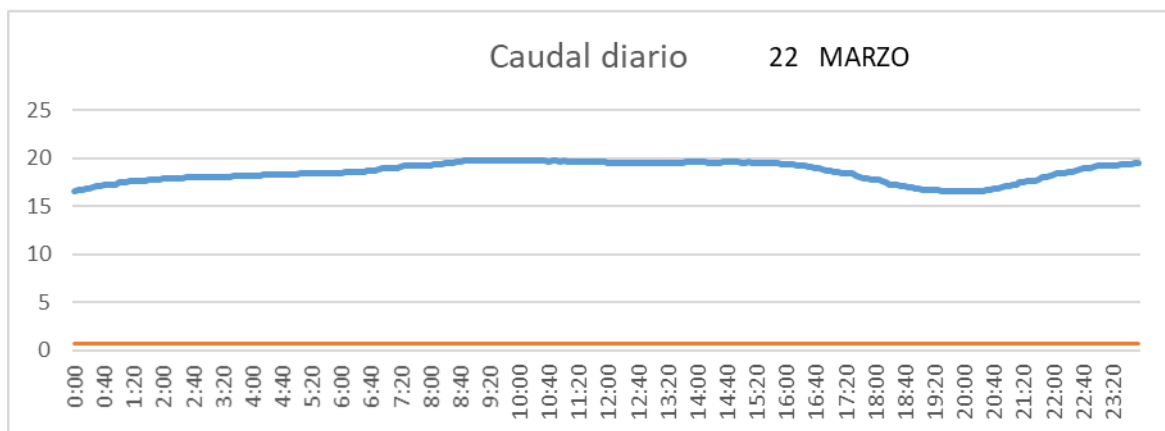
SALIDA TOBA



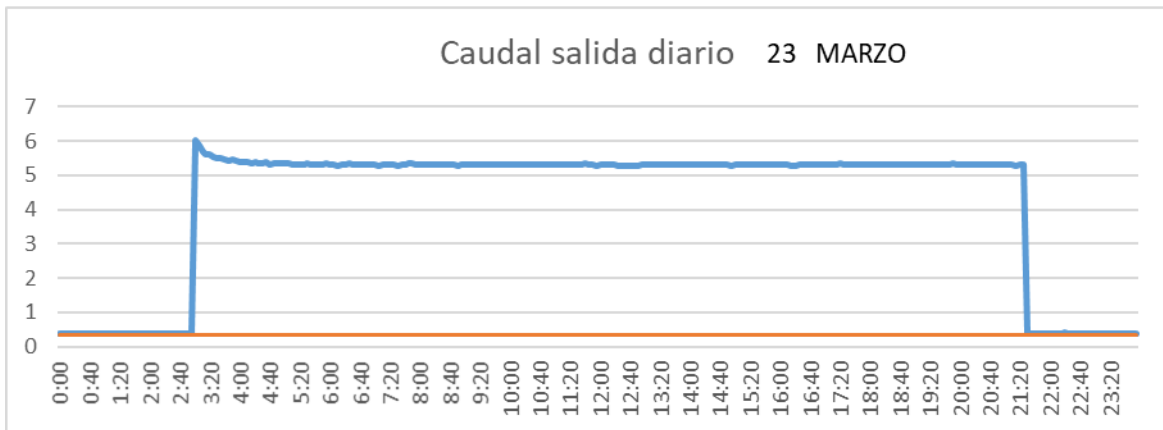
CUENCA



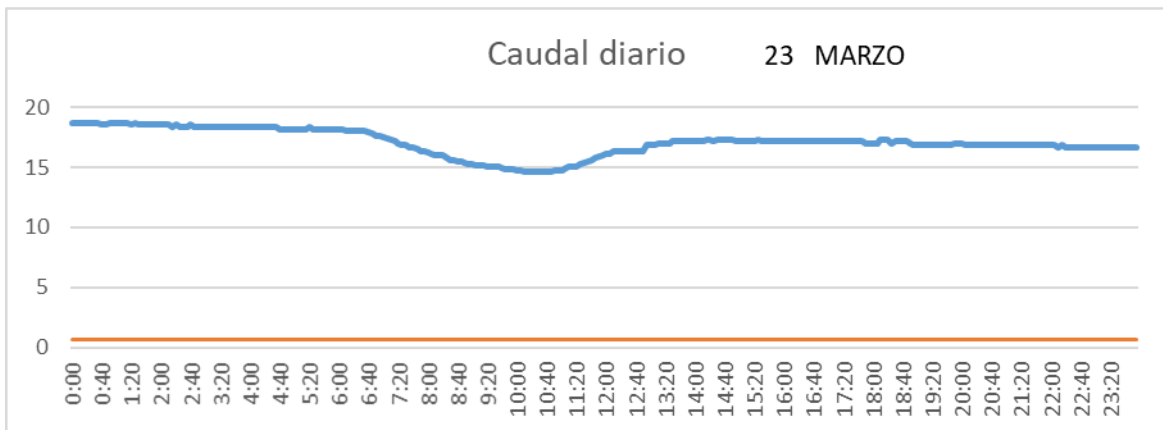
SAN LORENZO PARRILLA



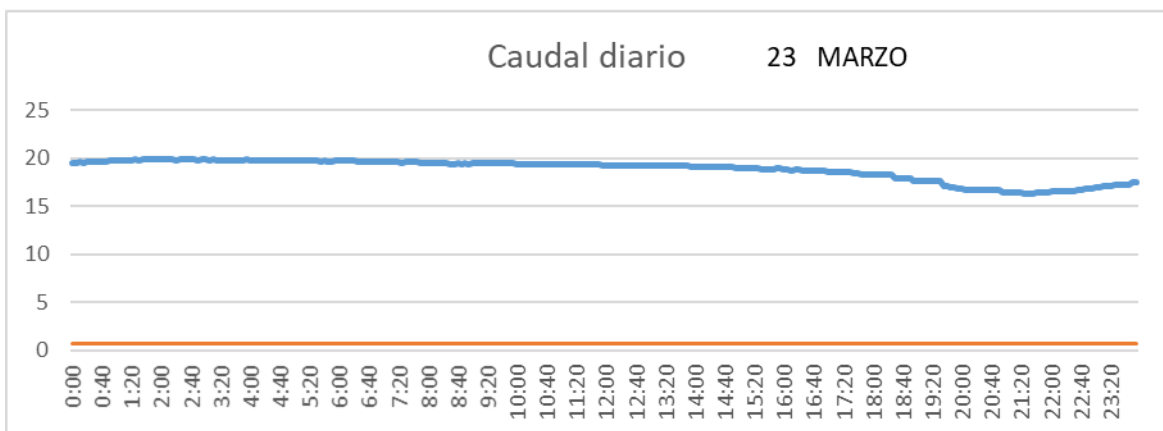
SALIDA TOBA



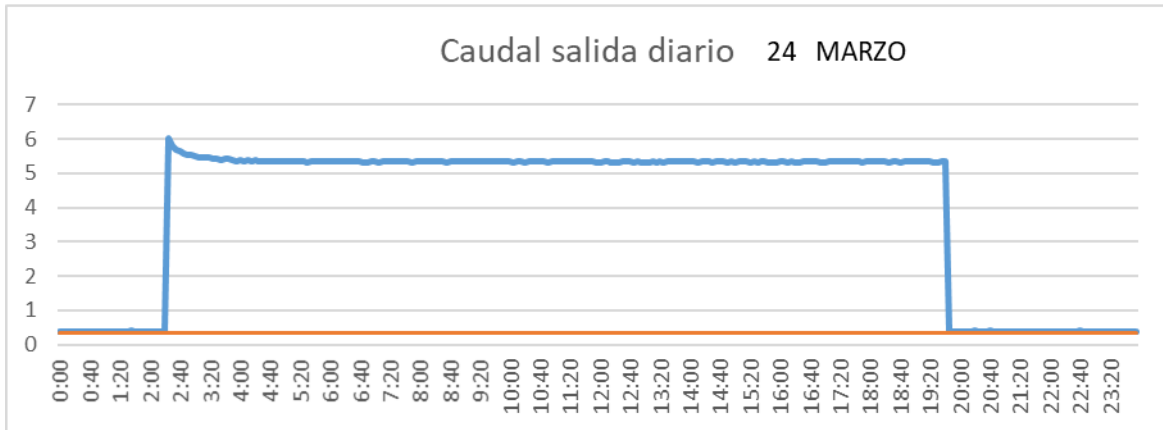
CUENCA



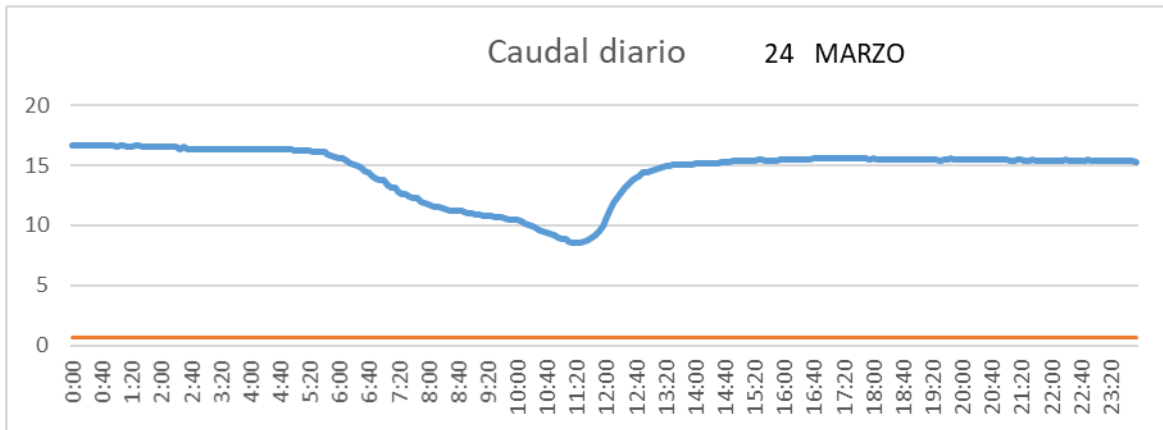
SAN LORENZO PARRILLA



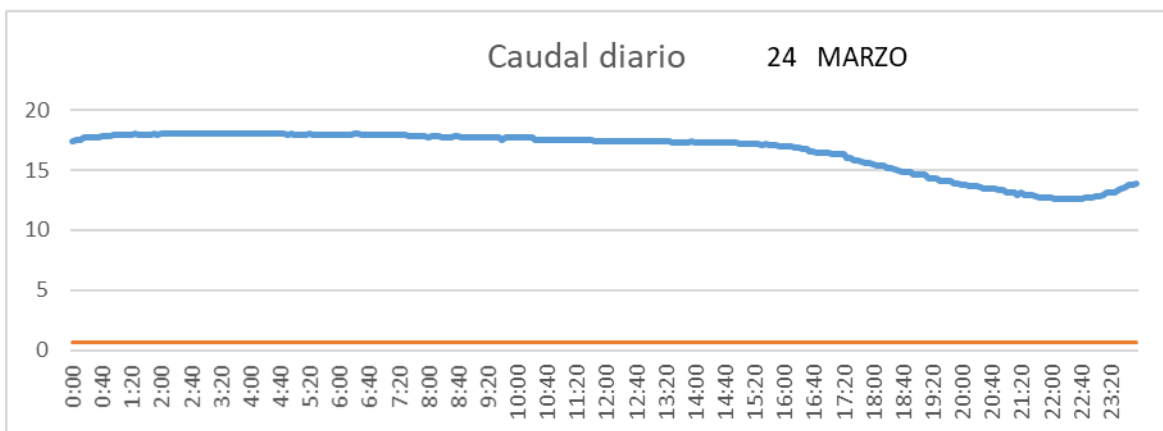
SALIDA TOBA



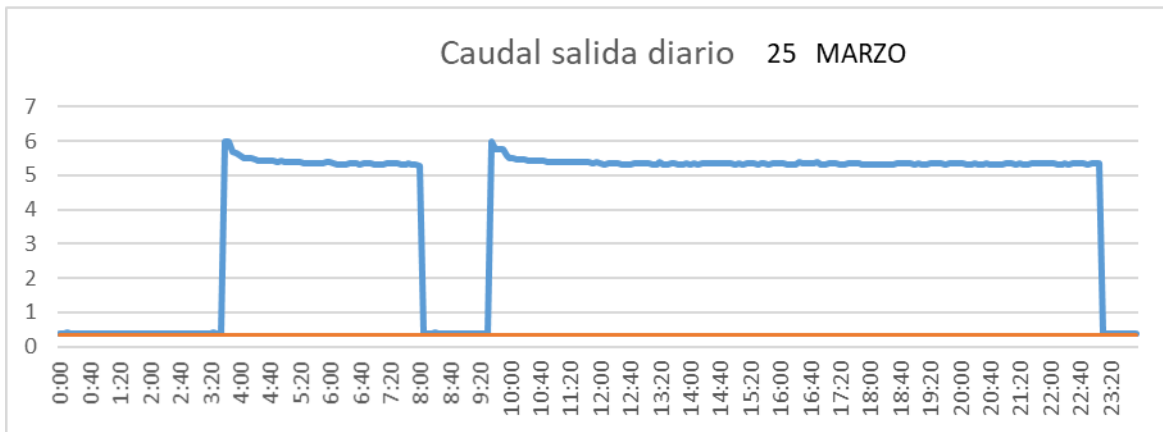
CUENCA



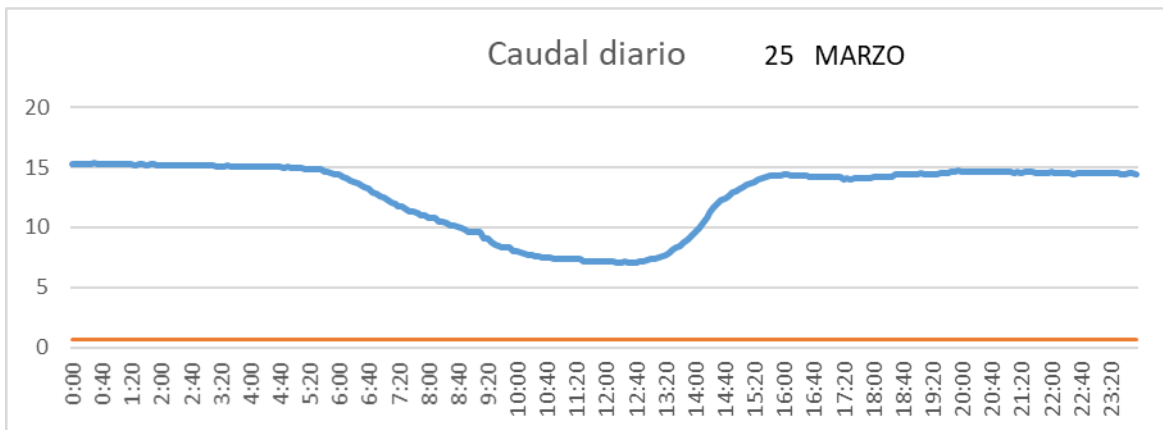
SAN LORENZO PARRILLA



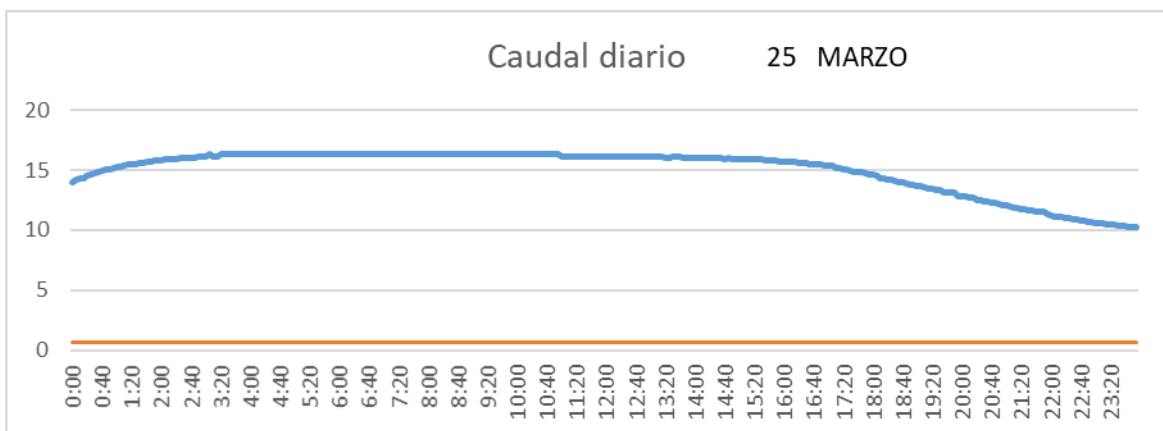
SALIDA TOBA



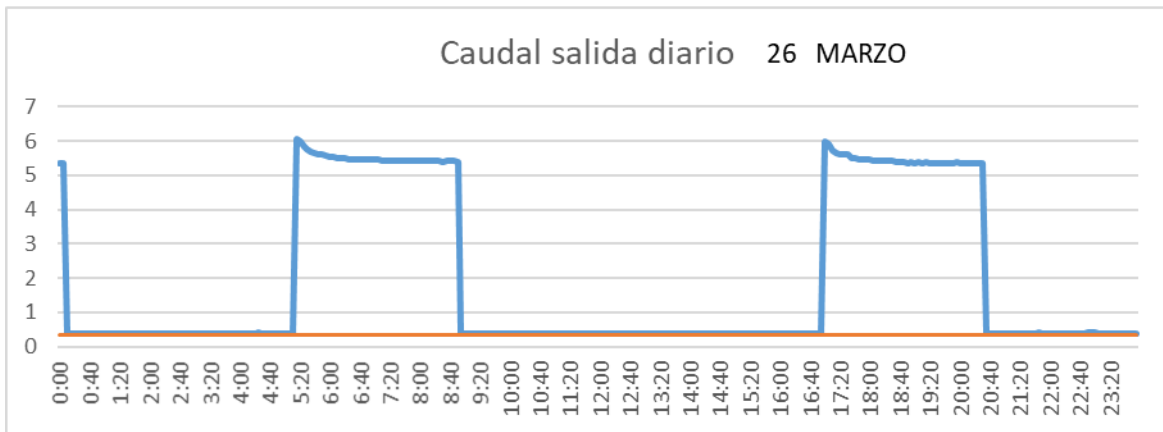
CUENCA



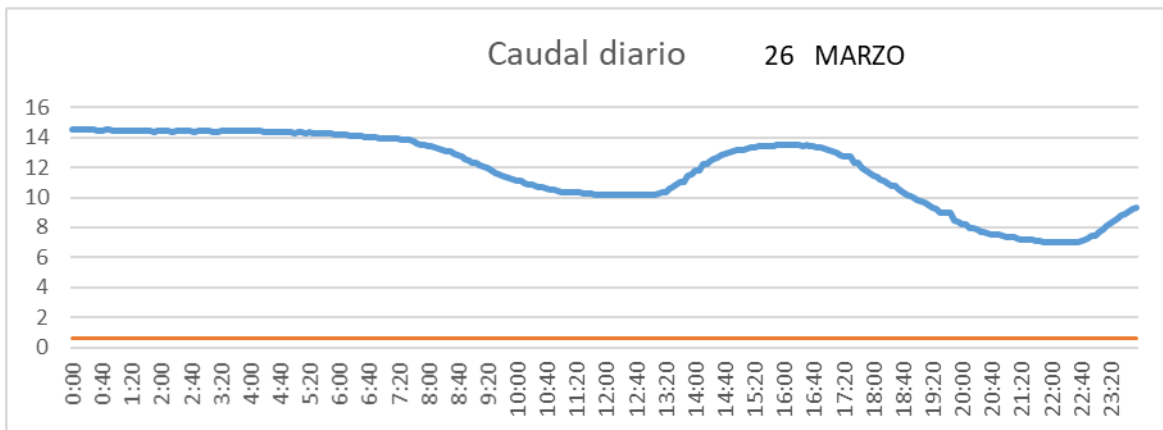
SAN LORENZO PARRILLA



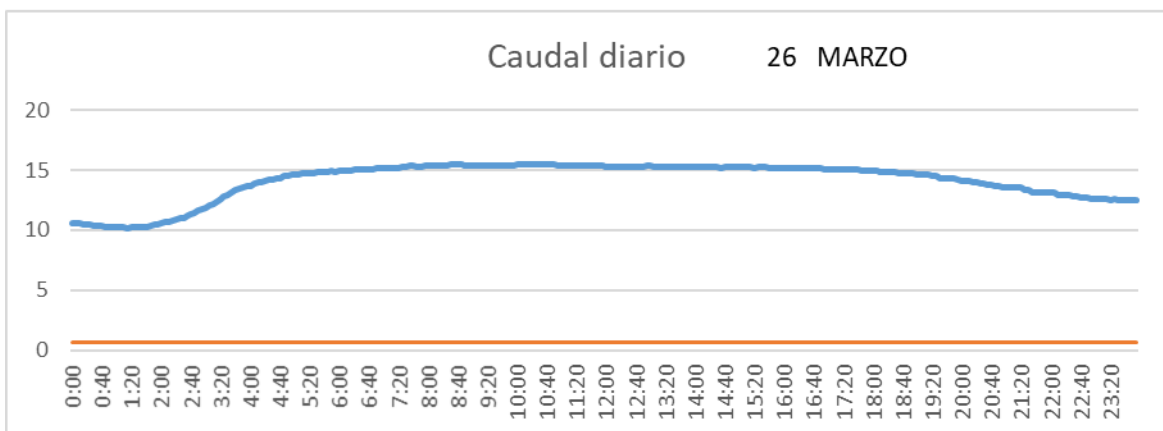
SALIDA TOBA



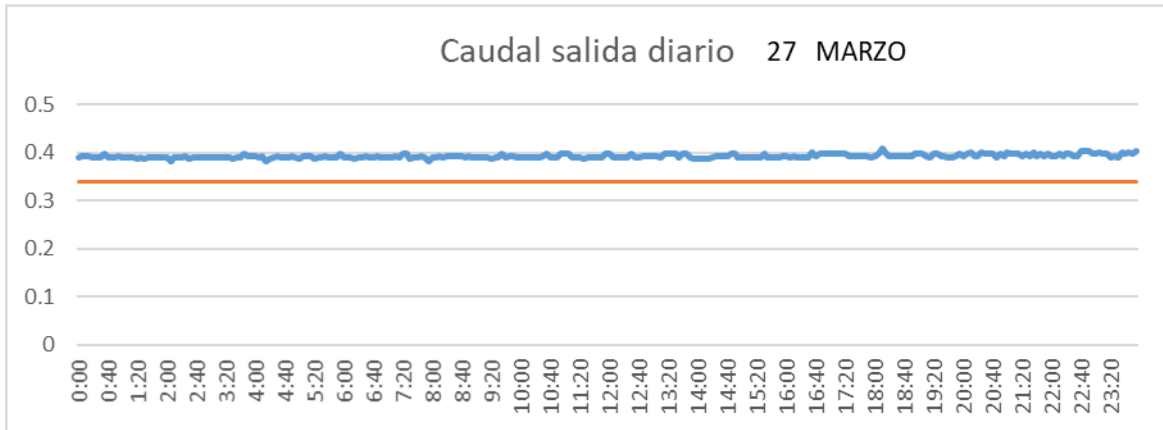
CUENCA



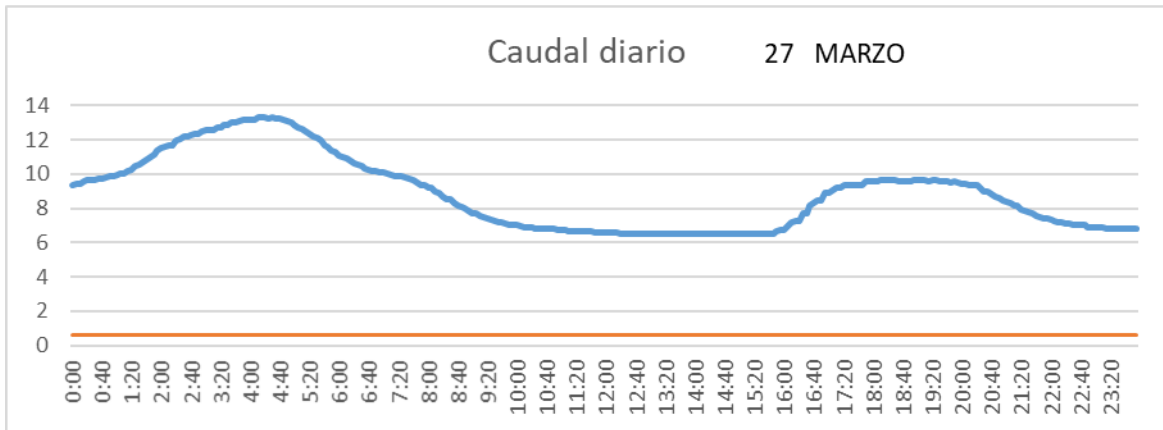
SAN LORENZO PARRILLA



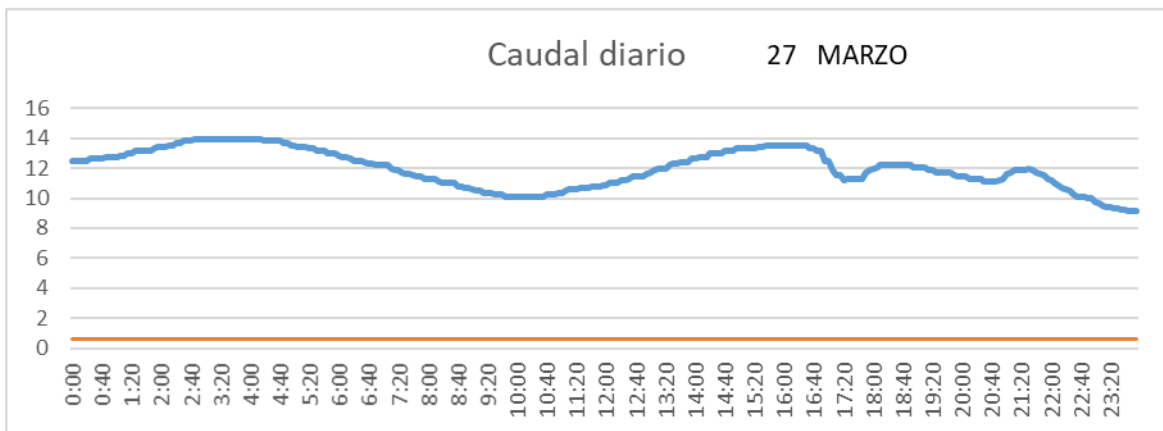
SALIDA TOBA



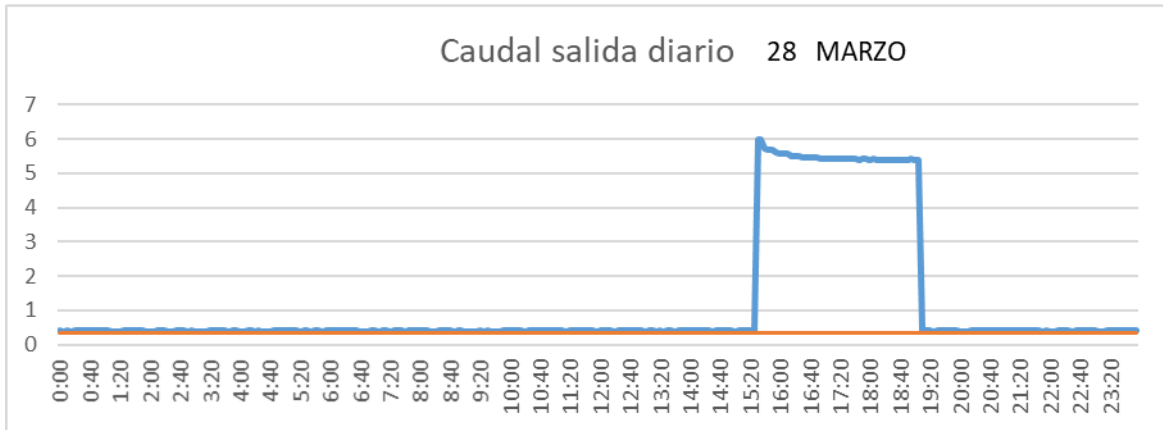
CUENCA



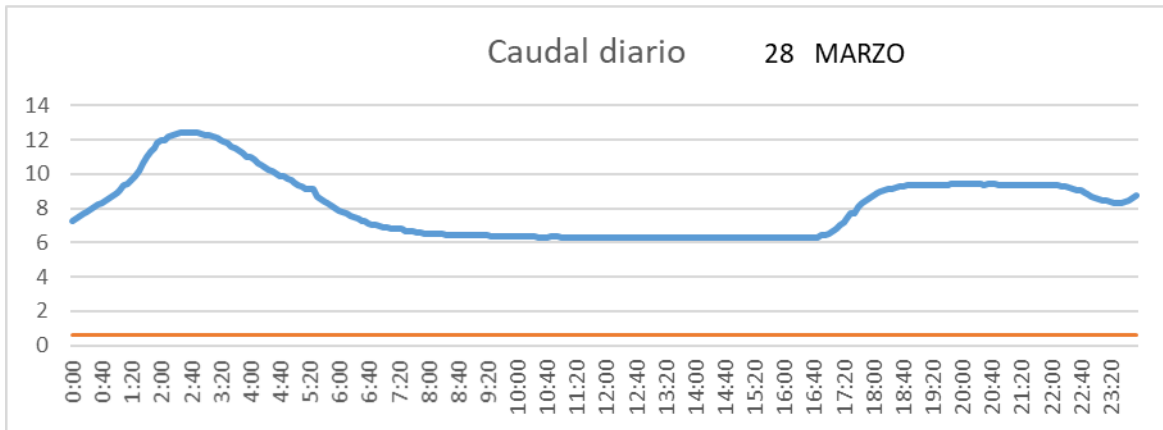
SAN LORENZO PARRILLA



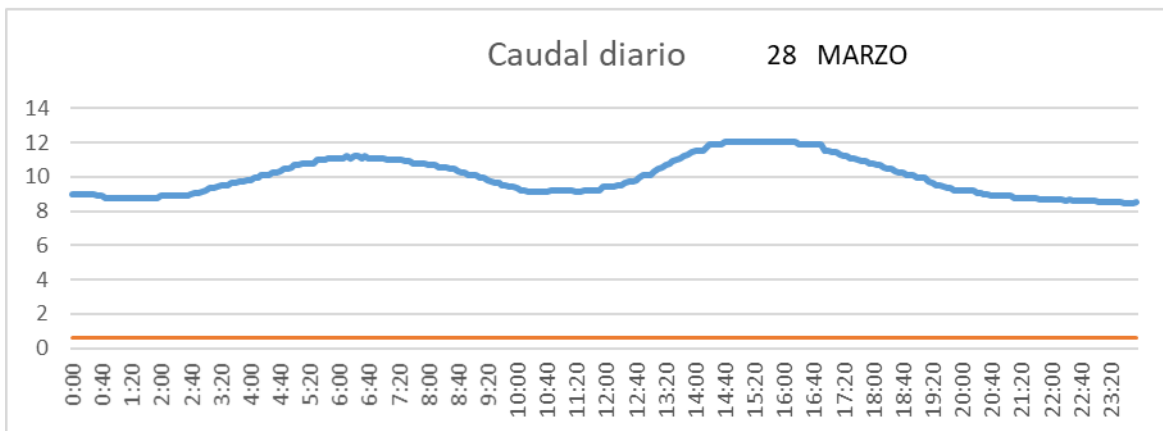
SALIDA TOBA



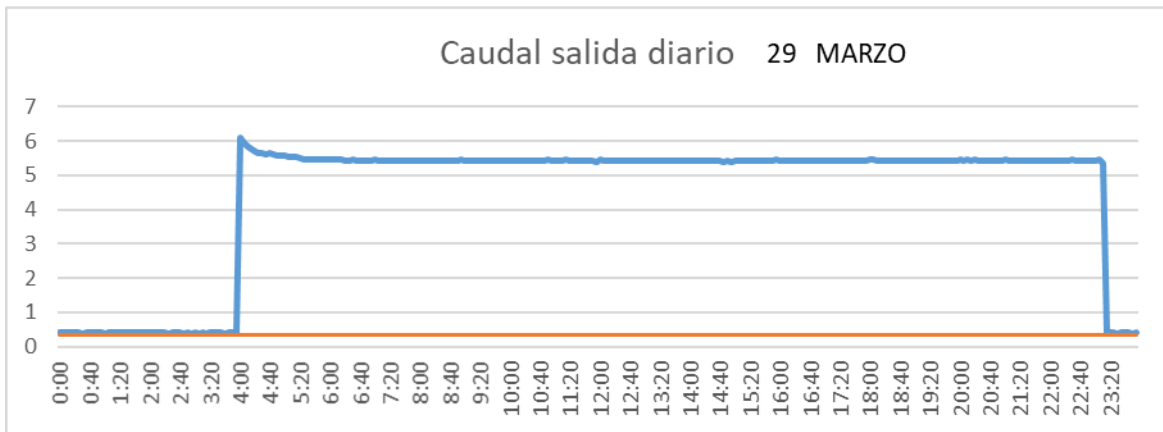
CUENCA



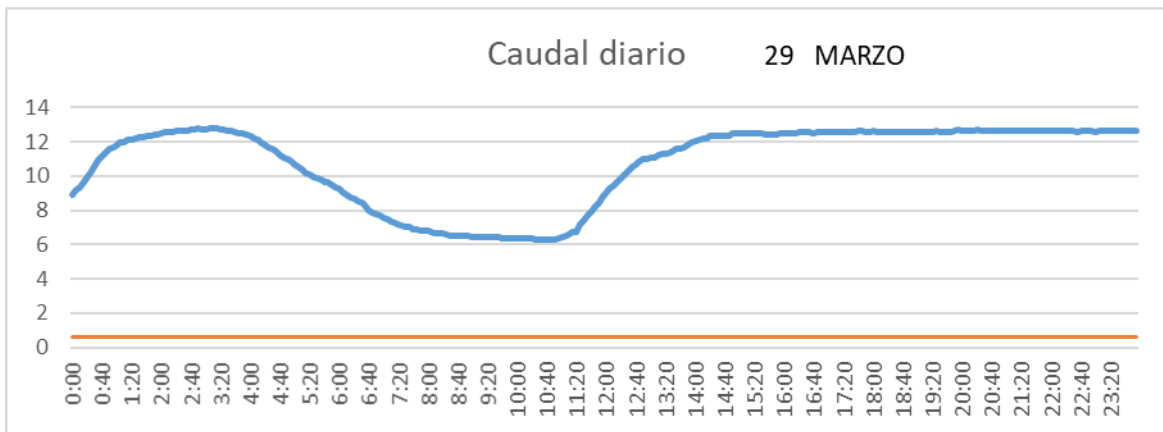
SAN LORENZO PARRILLA



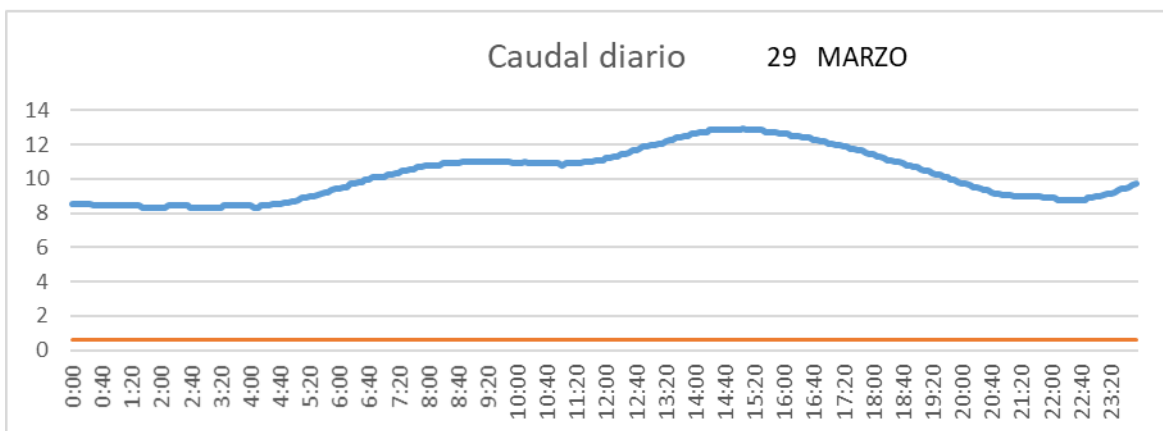
SALIDA TOBA



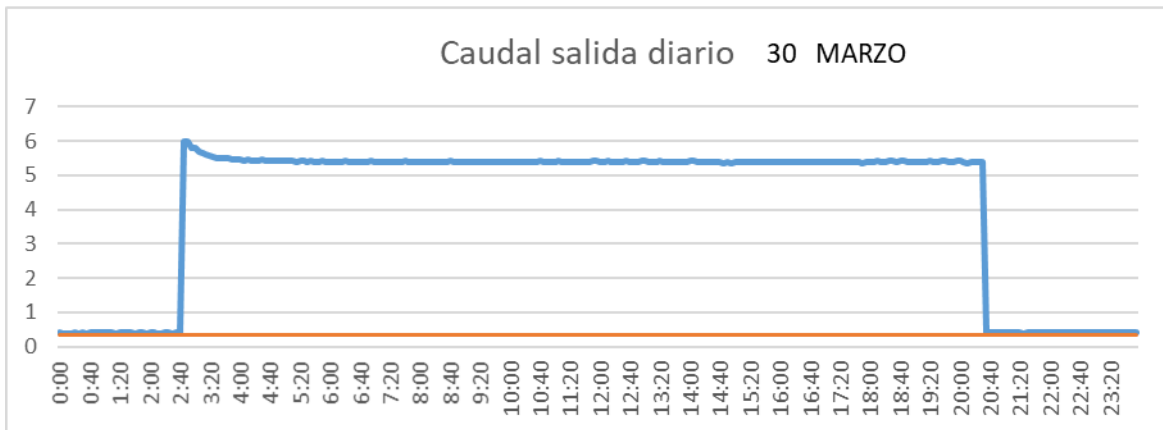
CUENCA



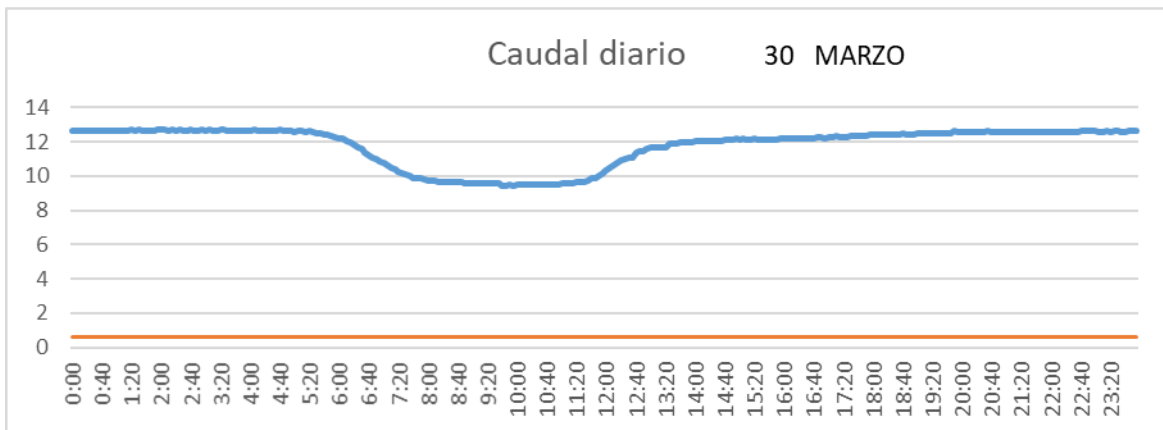
SAN LORENZO PARRILLA



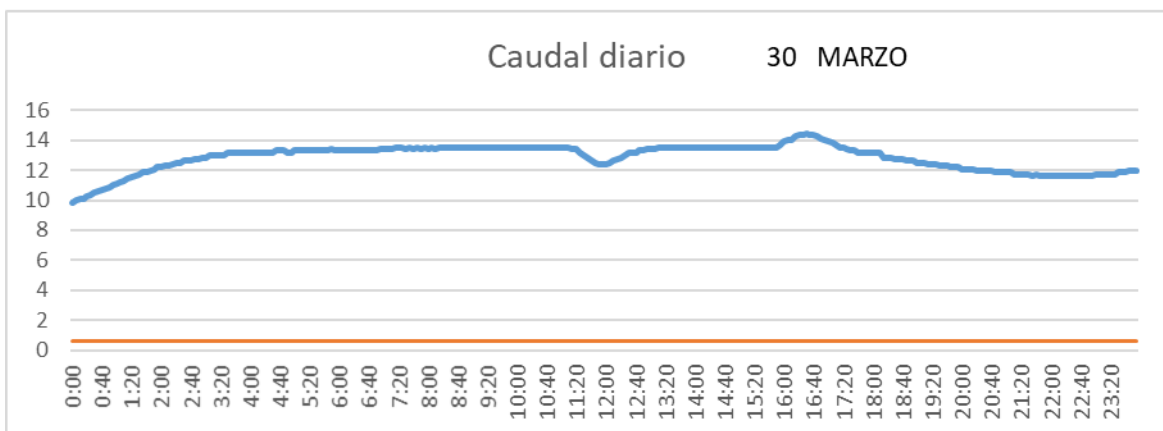
SALIDA TOBA



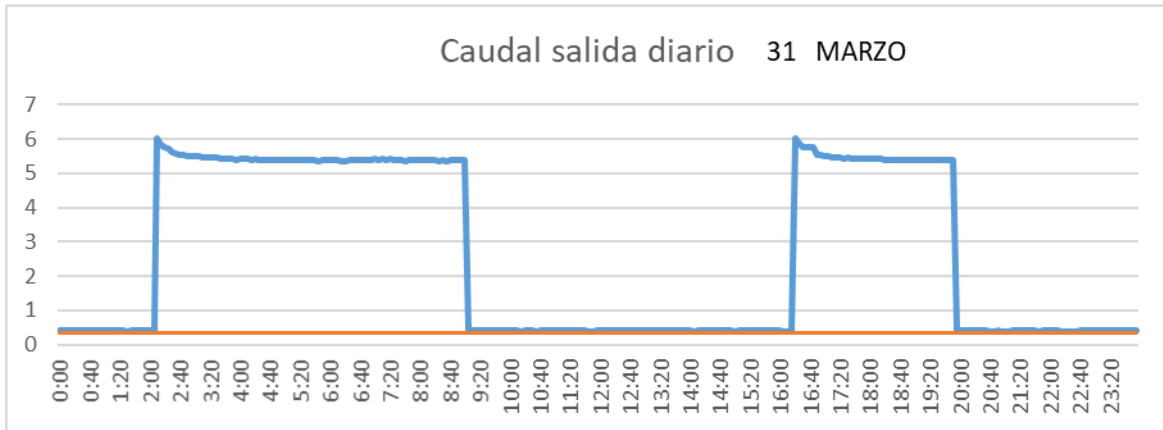
CUENCA



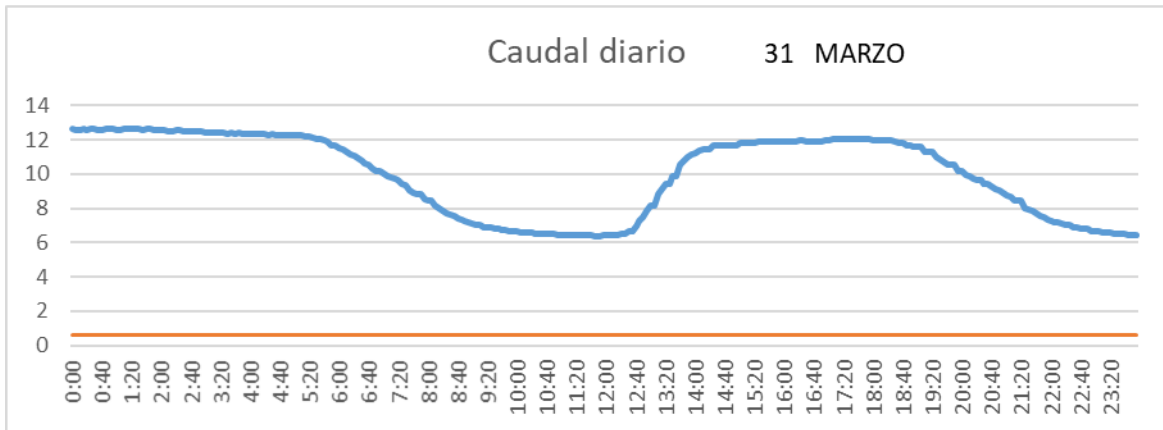
SAN LORENZO PARRILLA



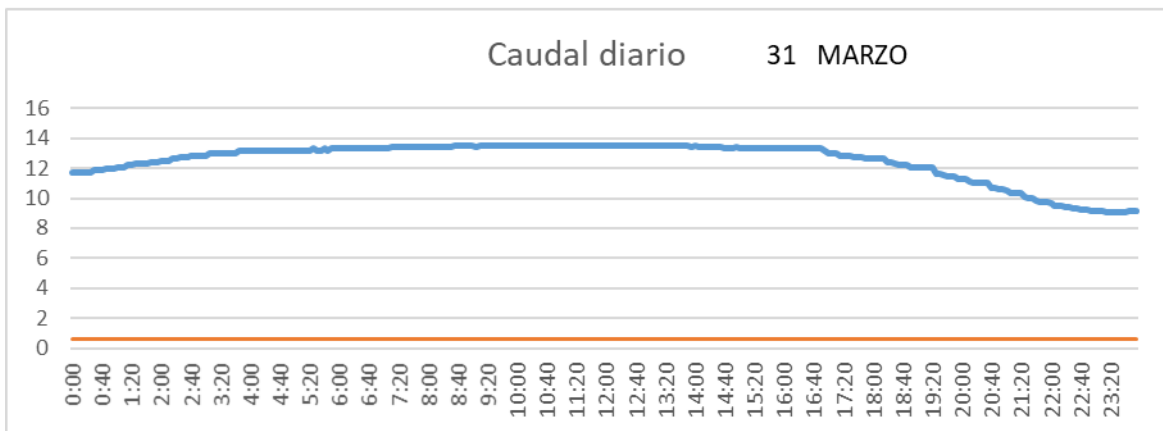
SALIDA TOBA



CUENCA

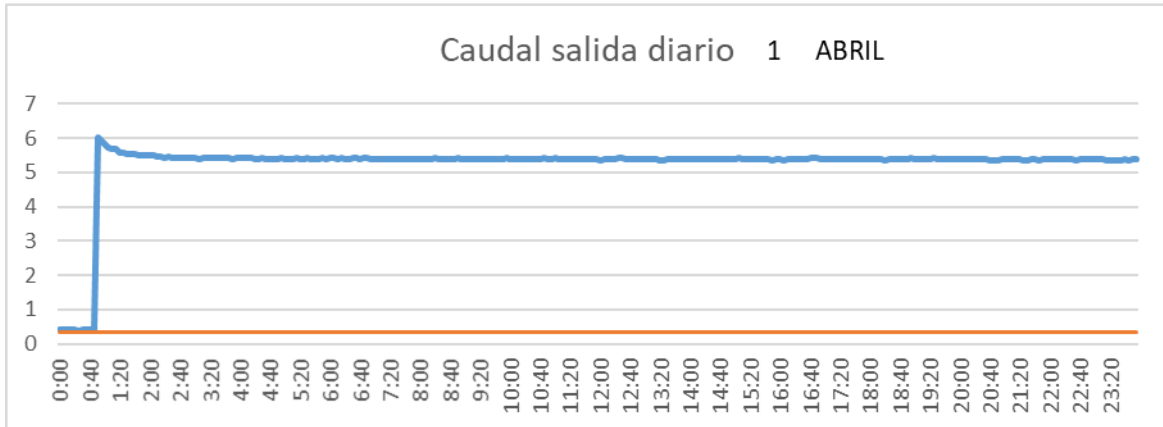


SAN LORENZO PARRILLA

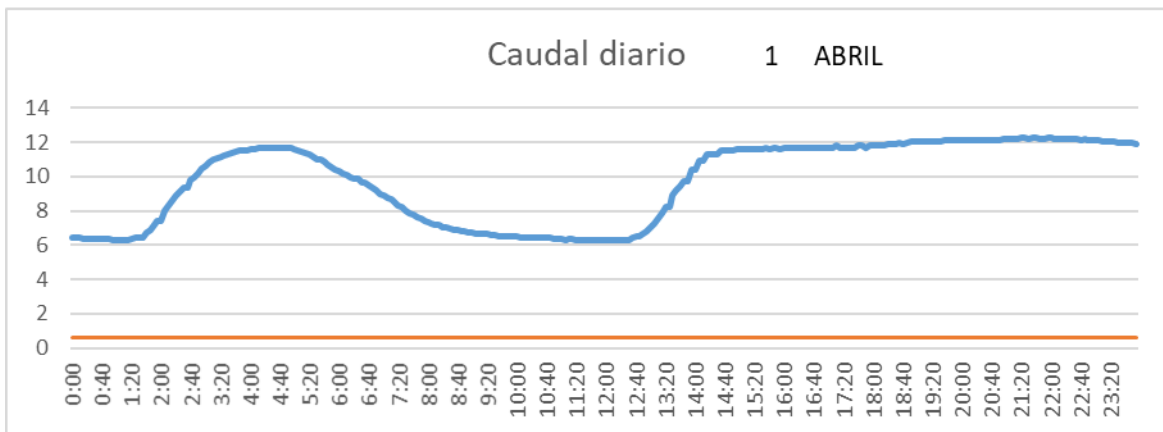


2.2.4 Abril

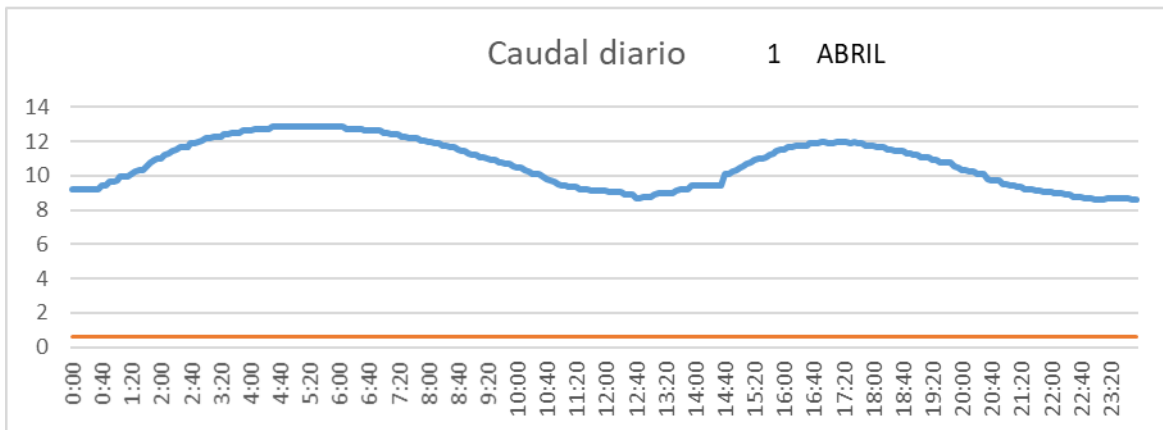
SALIDA TOBA



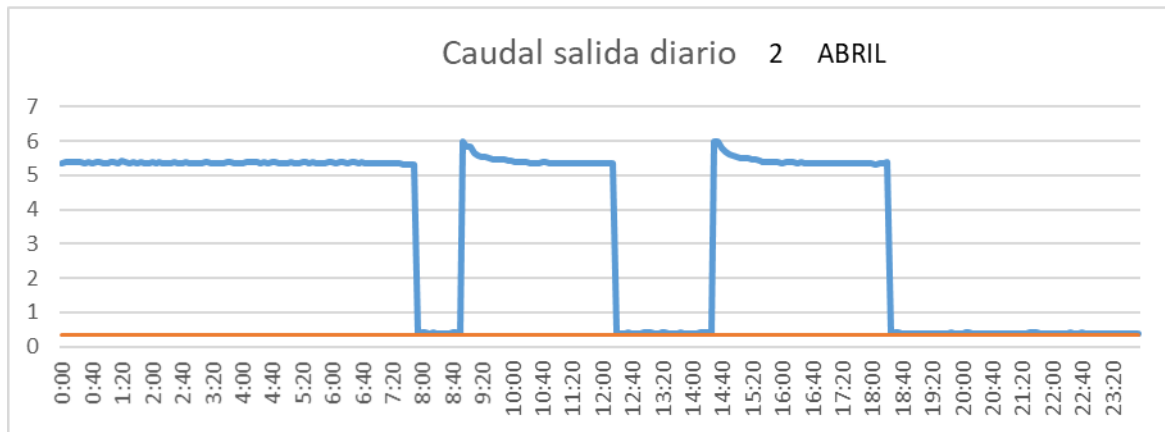
CUENCA



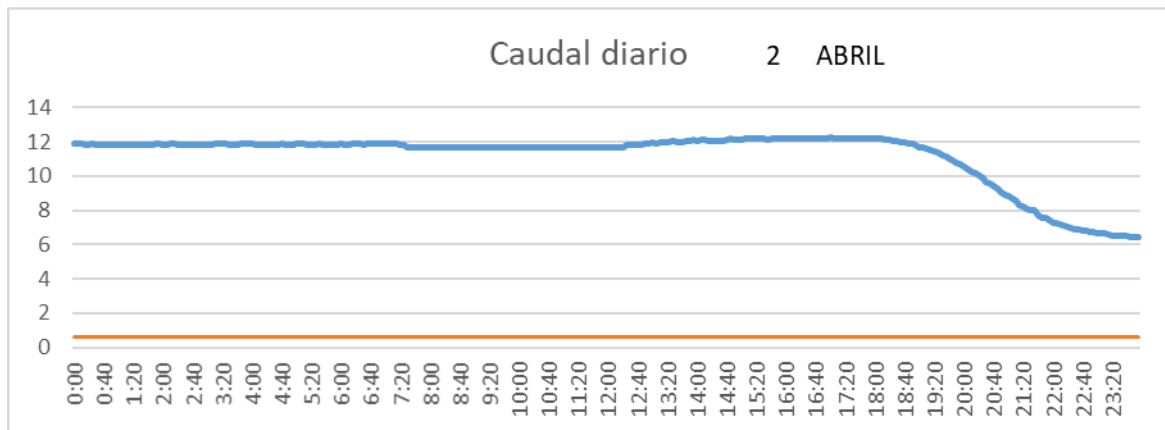
SAN LORENZO PARRILLA



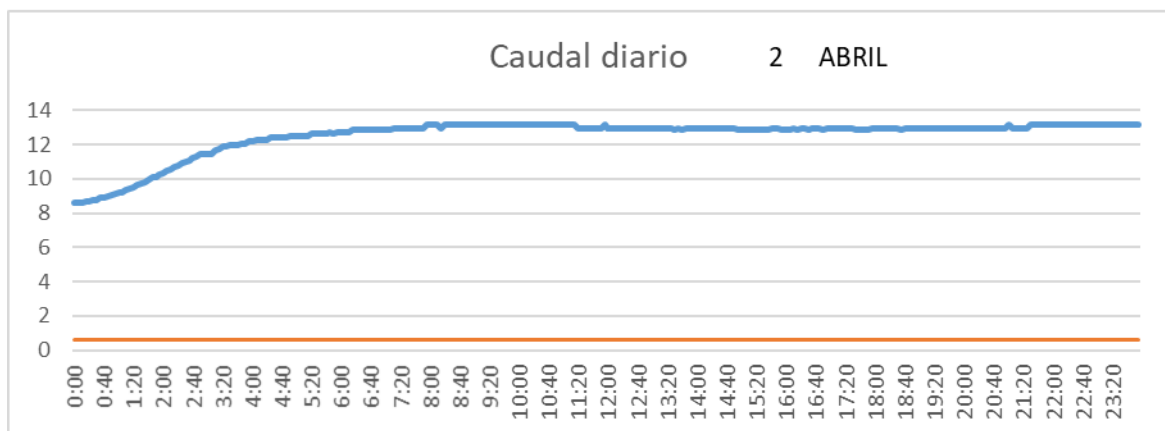
SALIDA TOBA



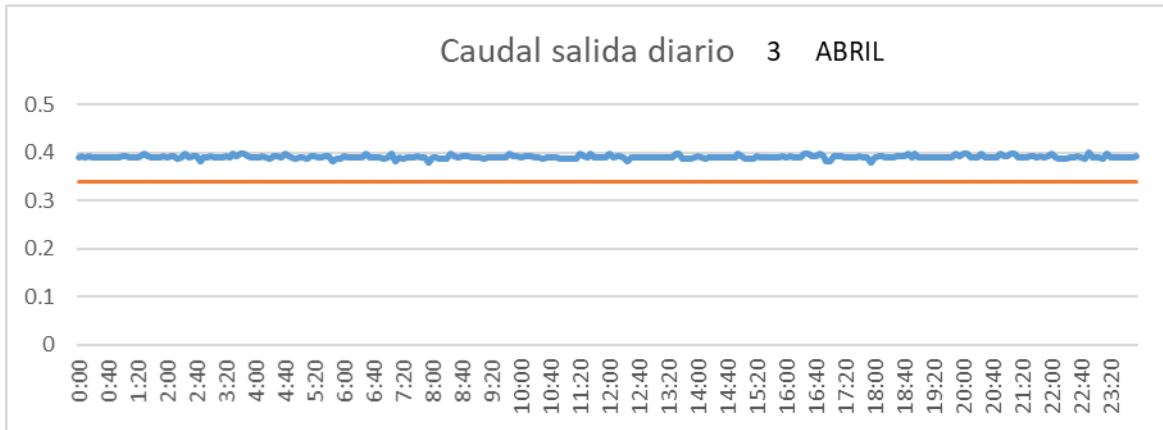
CUENCA



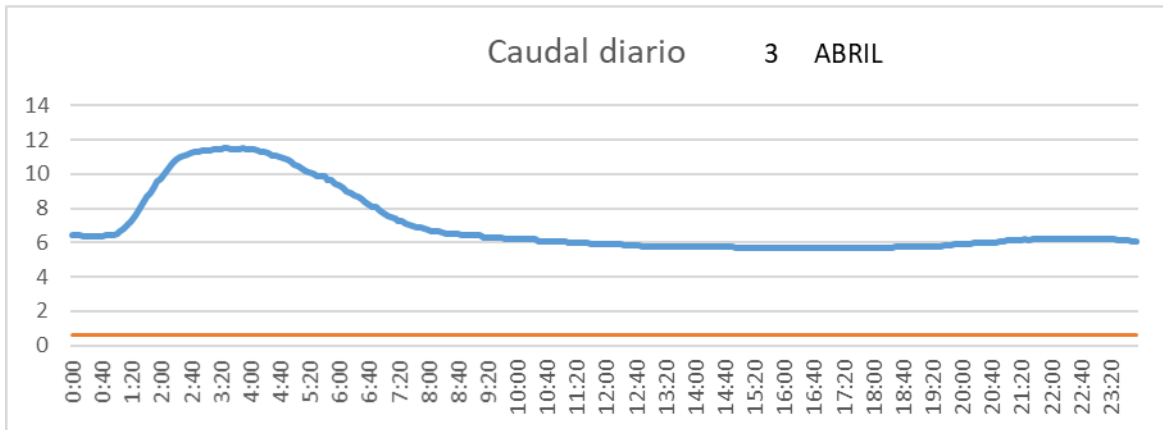
SAN LORENZO PARRILLA



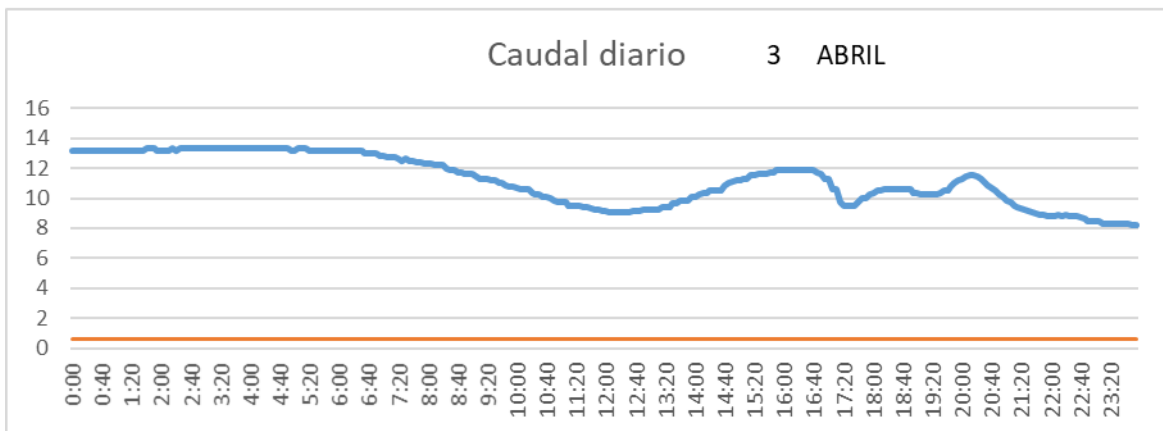
SALIDA TOBA



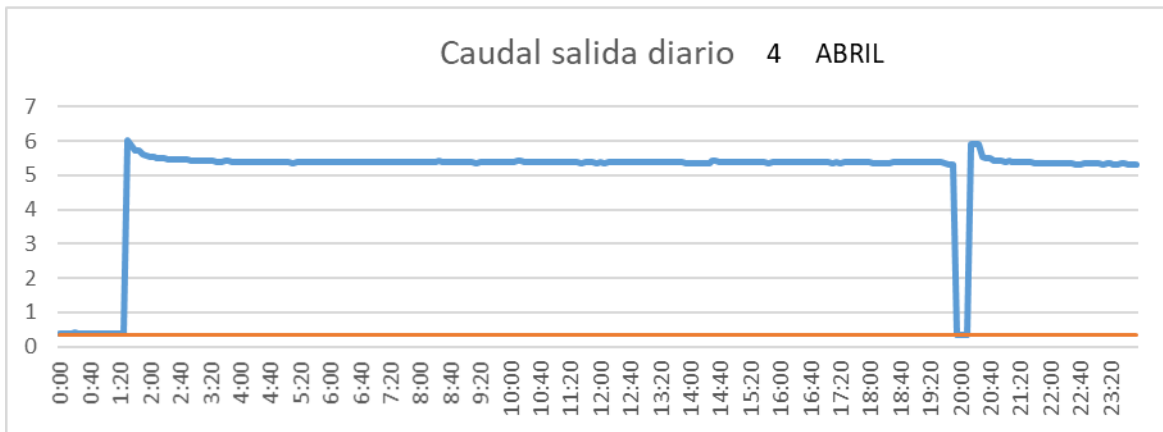
CUENCA



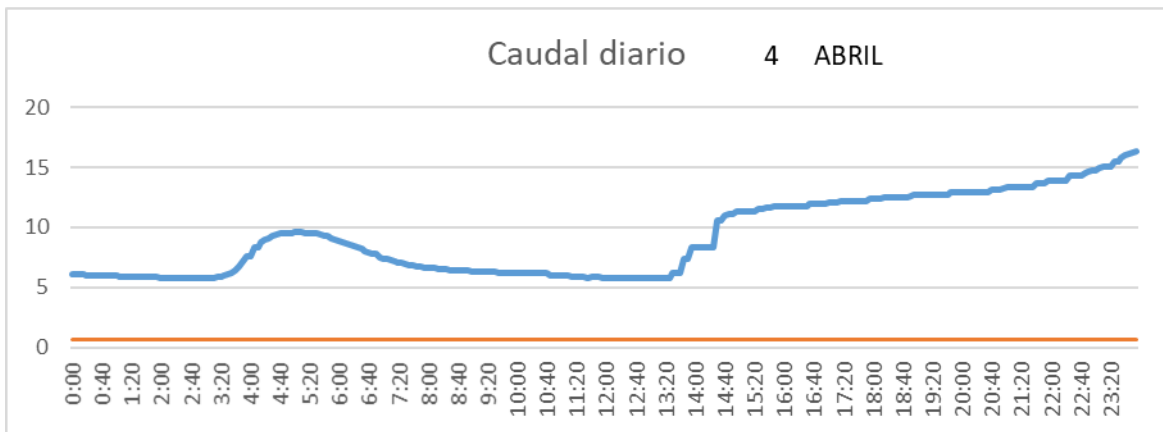
SAN LORENZO PARRILLA



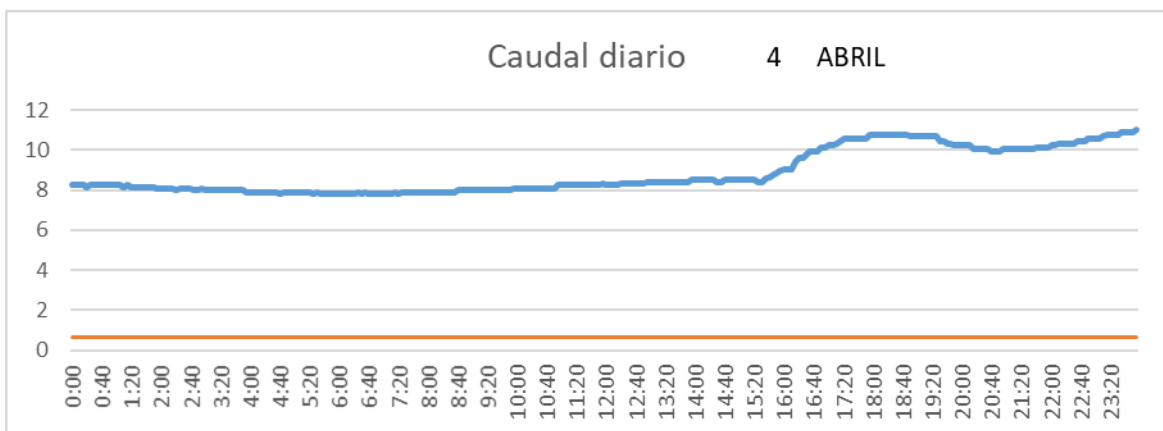
SALIDA TOBA



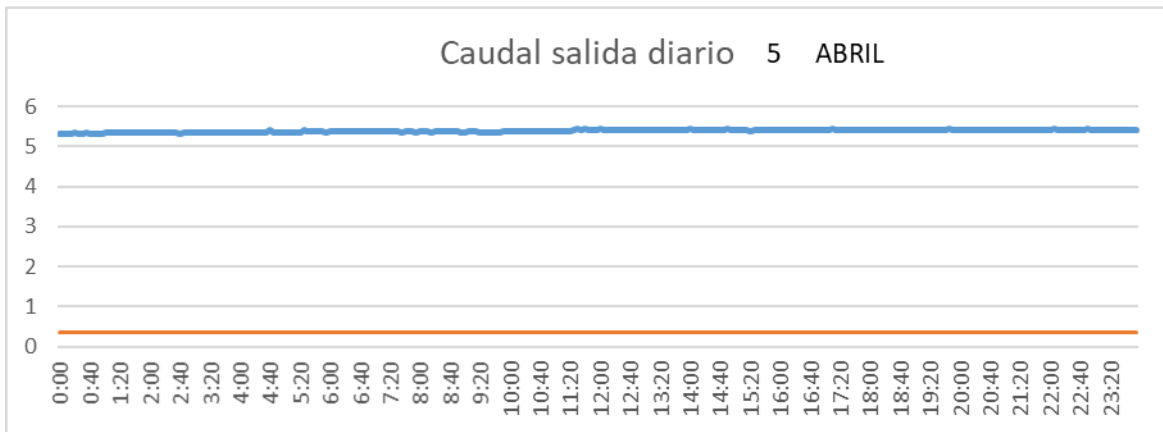
CUENCA



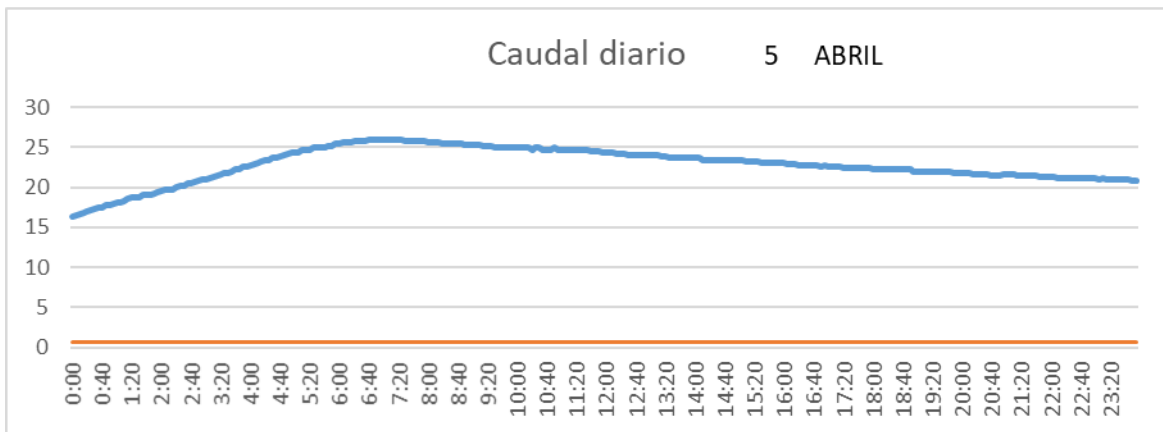
SAN LORENZO PARRILLA



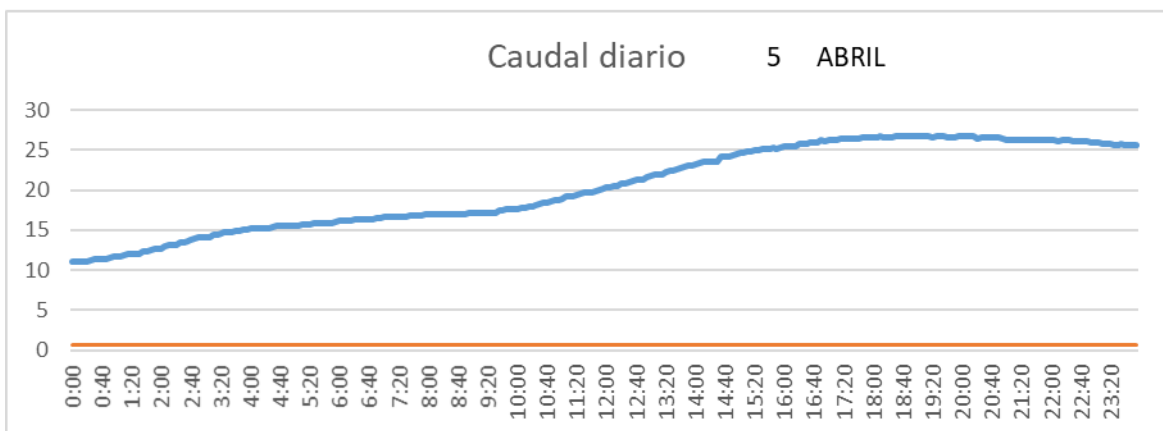
SALIDA TOBA



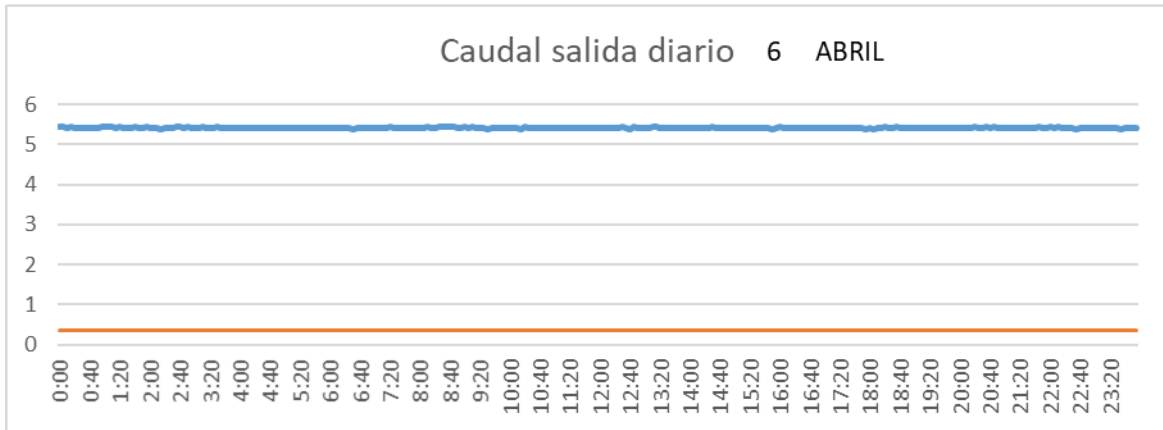
CUENCA



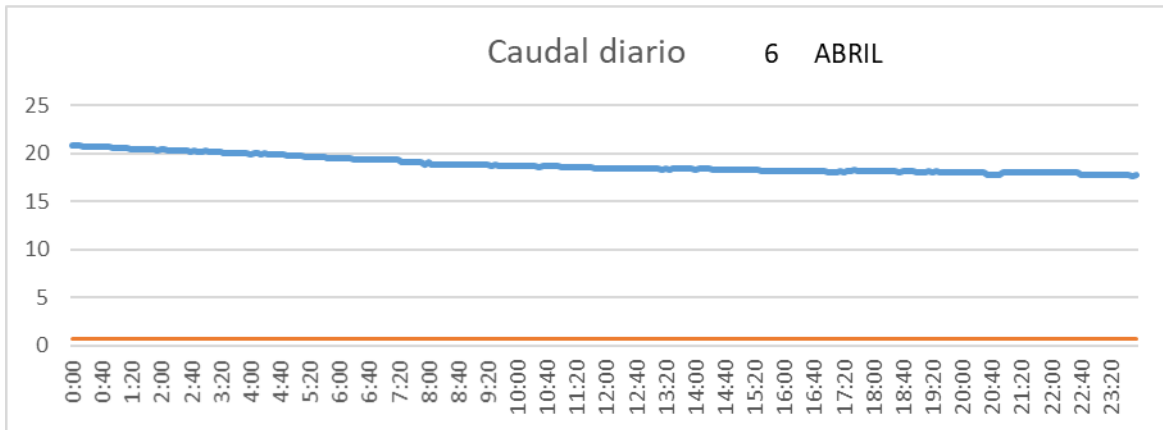
SAN LORENZO PARRILLA



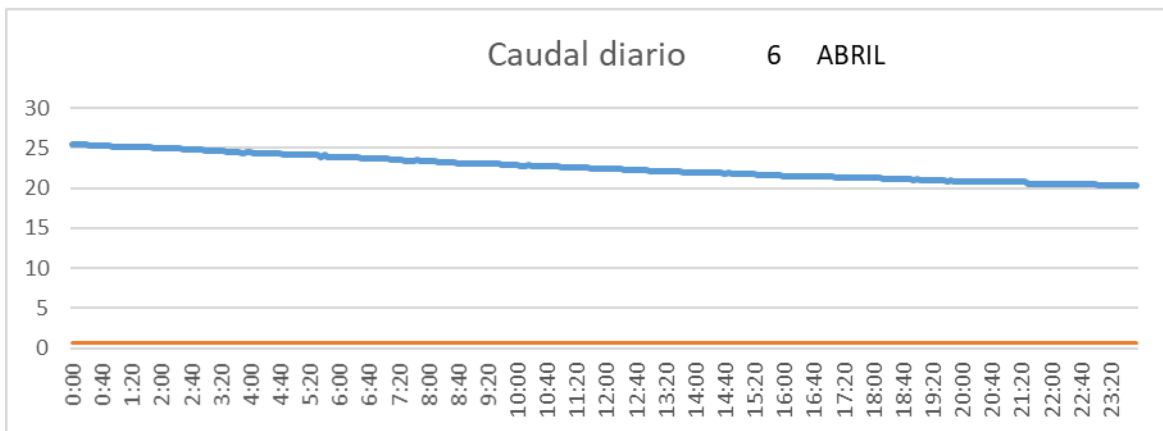
SALIDA TOBA



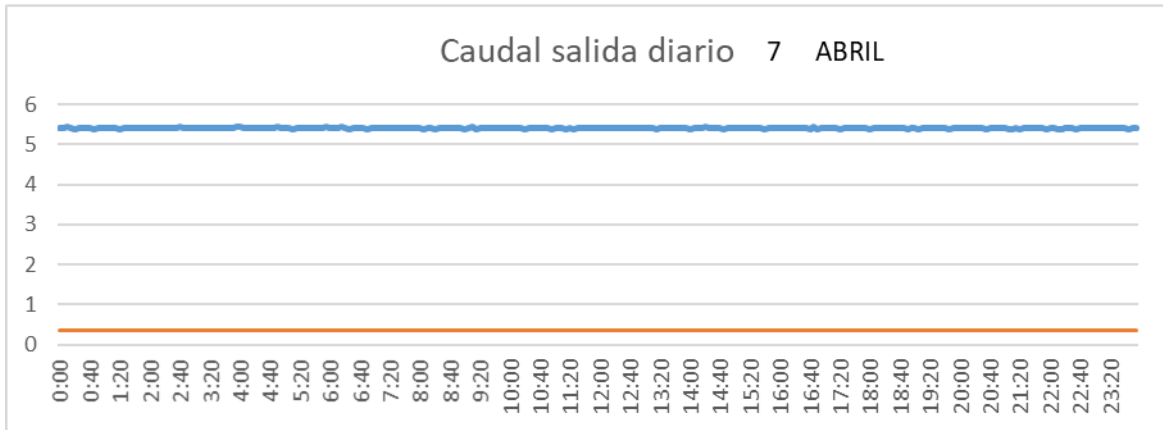
CUENCA



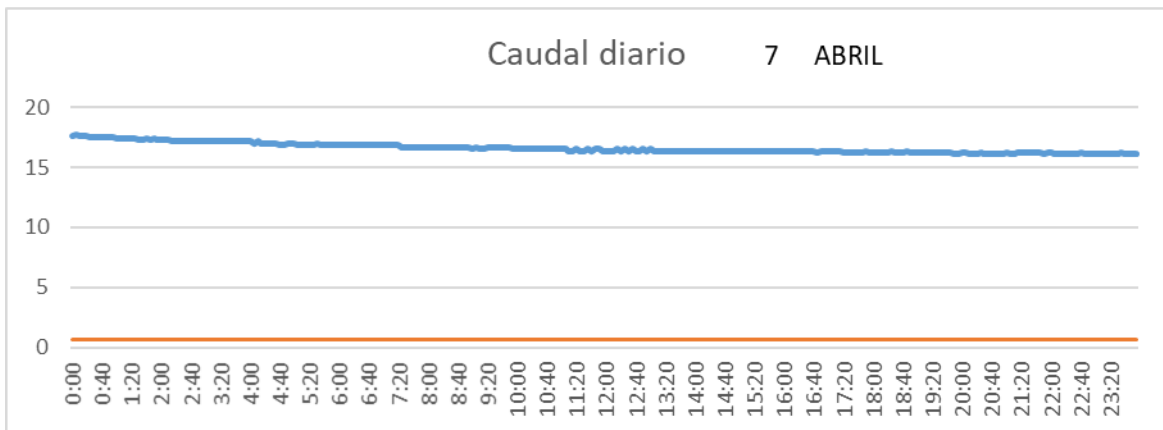
SAN LORENZO PARRILLA



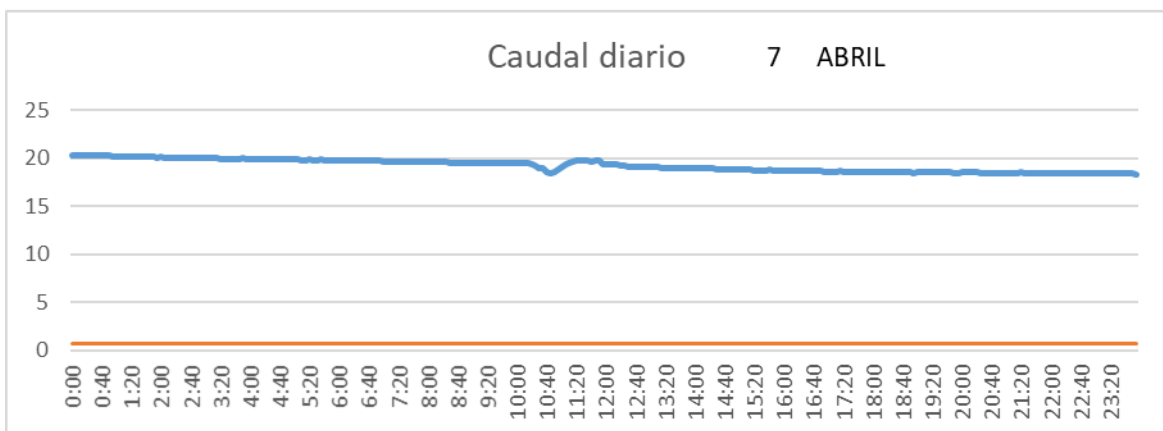
SALIDA TOBA



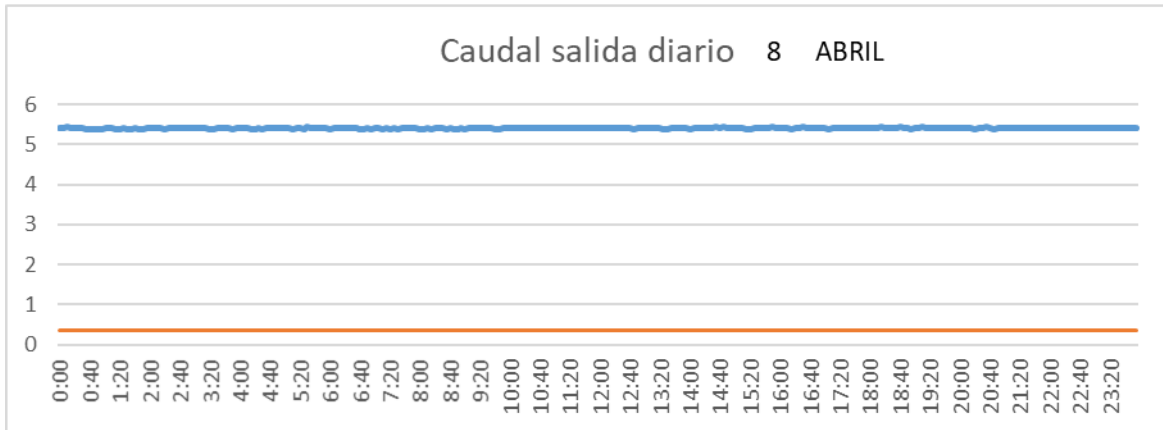
CUENCA



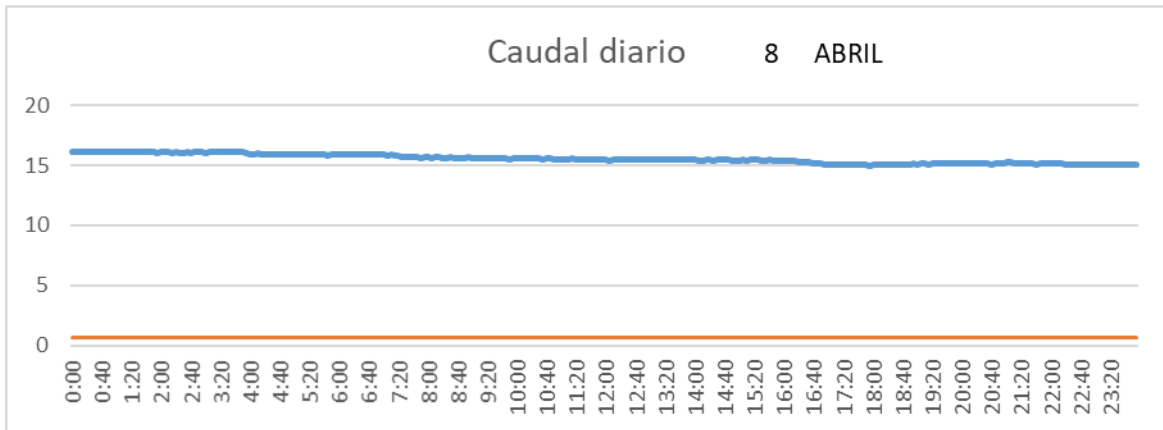
SAN LORENZO PARRILLA



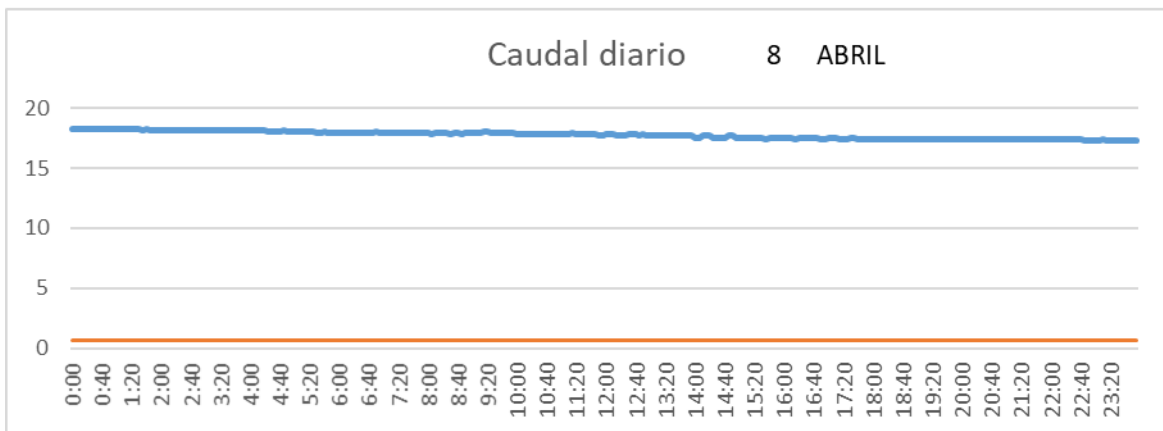
SALIDA TOBA



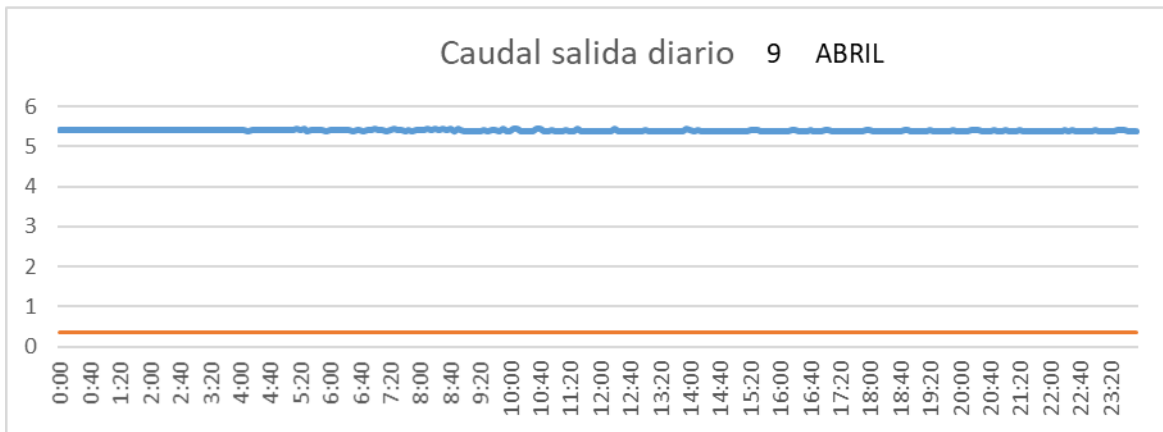
CUENCA



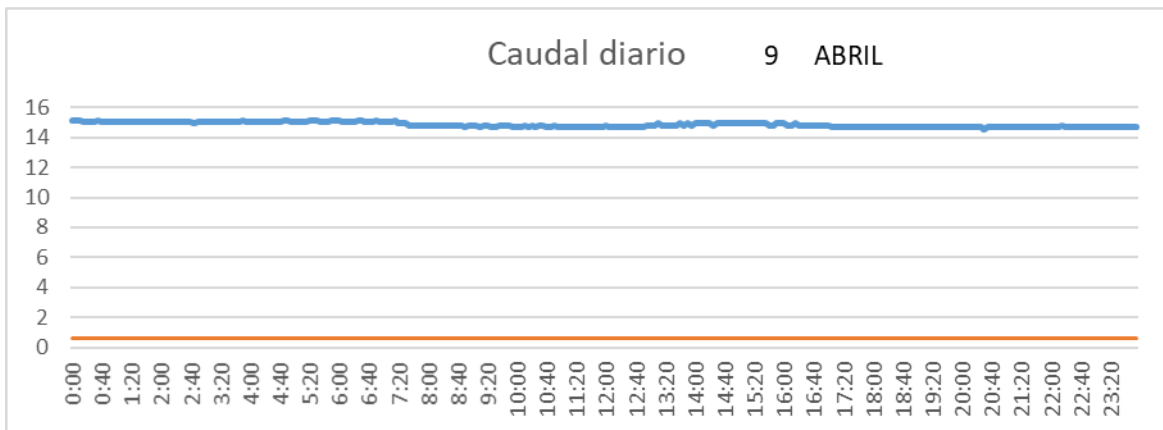
SAN LORENZO PARRILLA



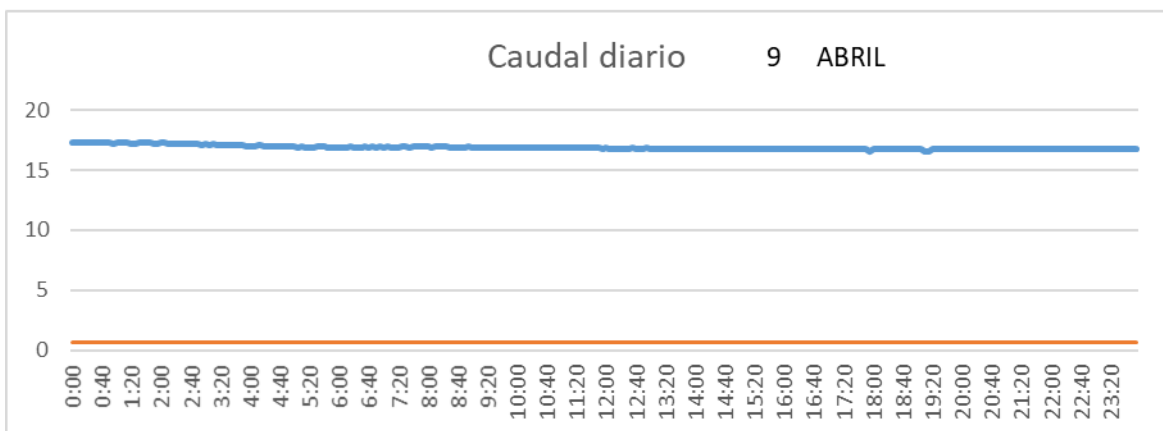
SALIDA TOBA



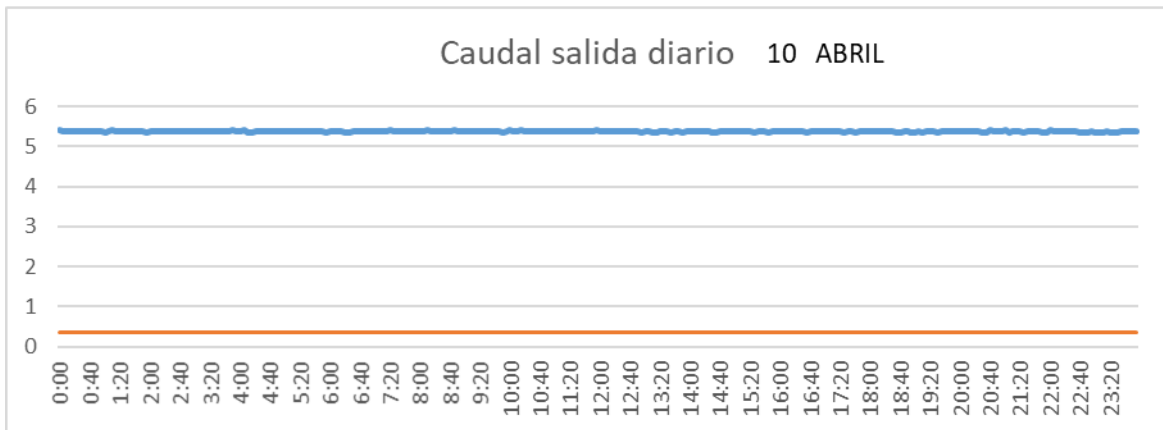
CUENCA



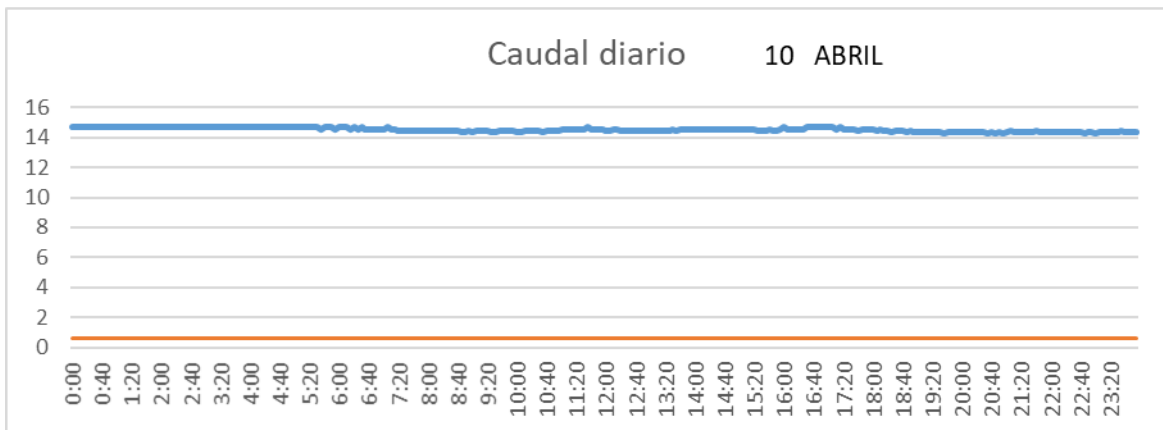
SAN LORENZO PARRILLA



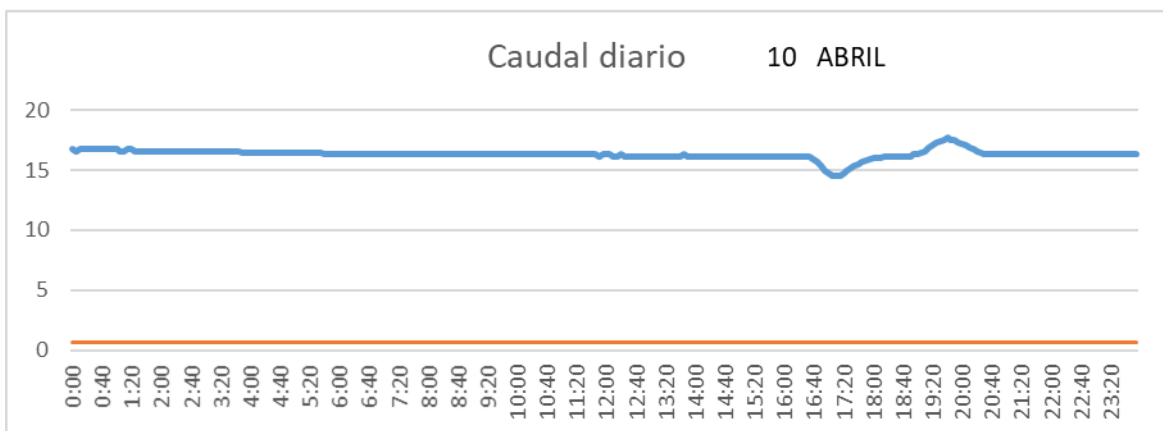
SALIDA TOBA



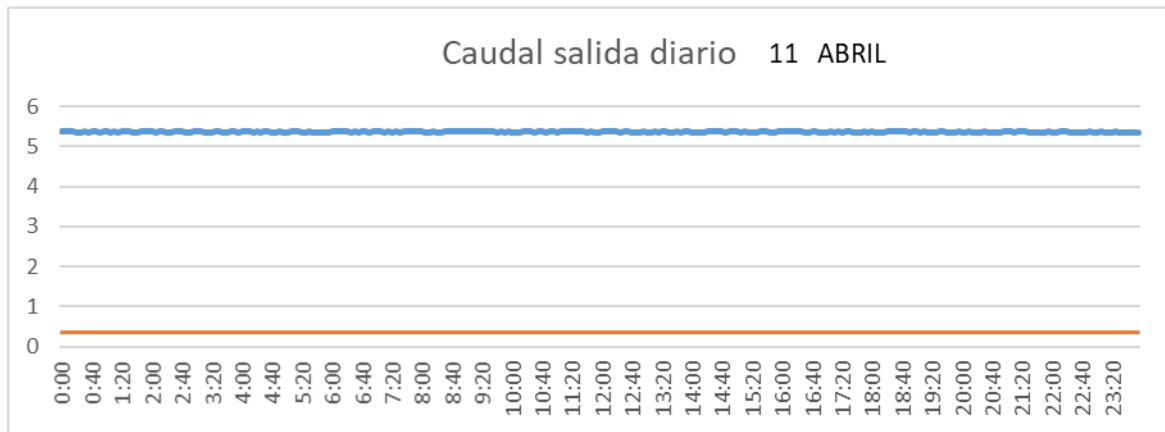
CUENCA



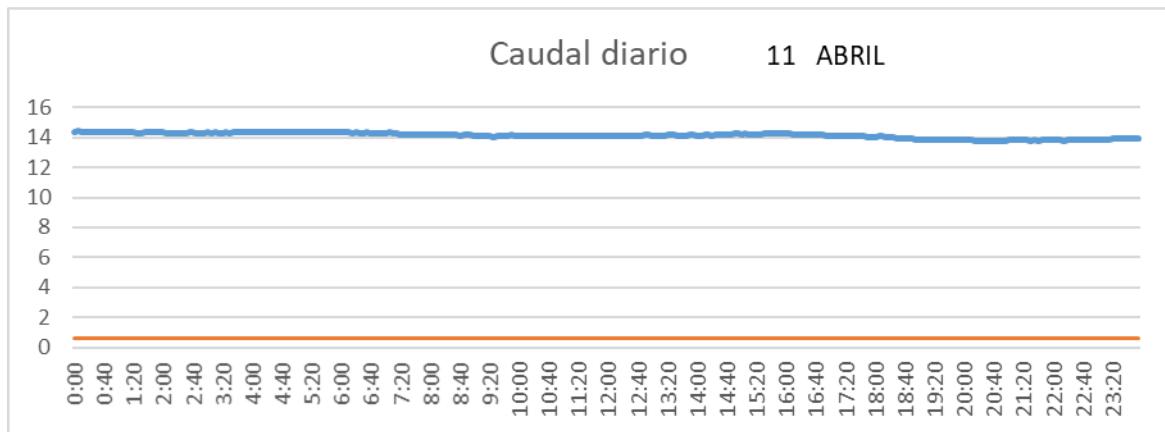
SAN LORENZO PARRILLA



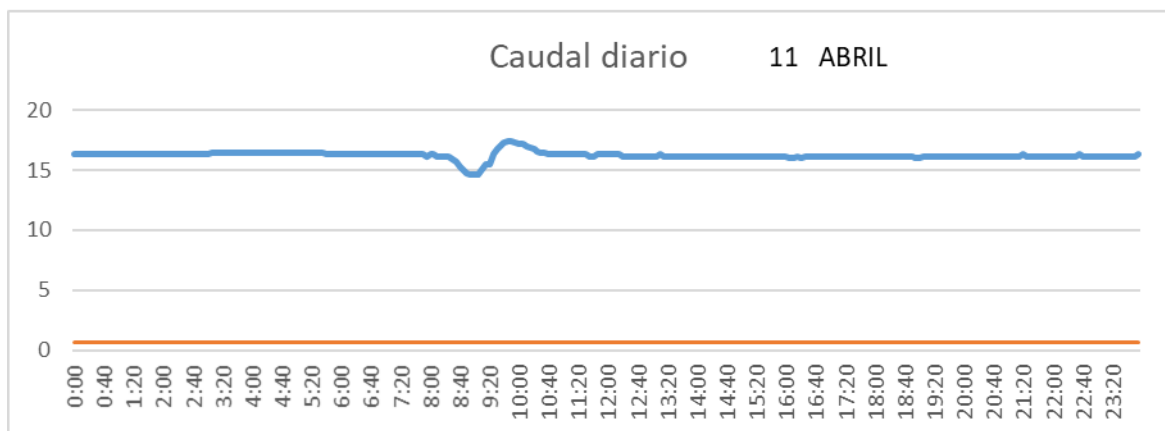
SALIDA TOBA



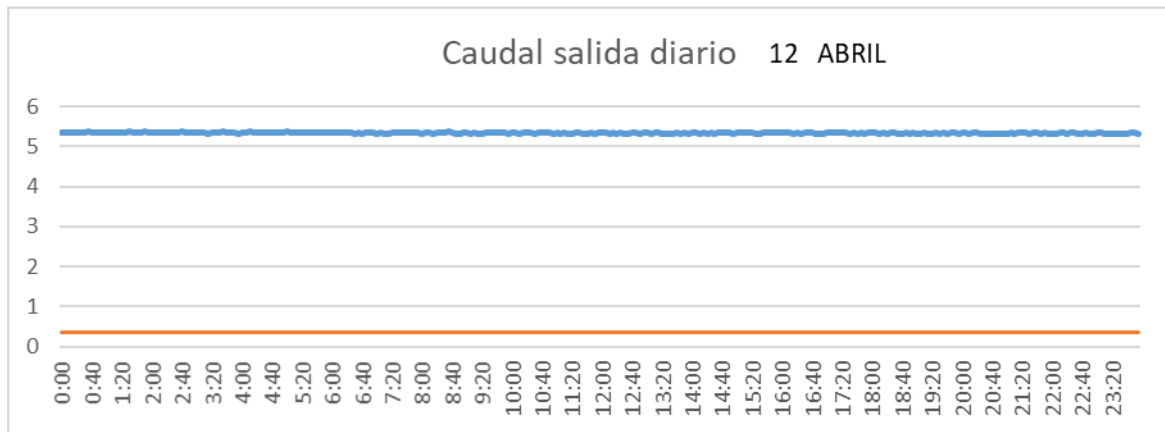
CUENCA



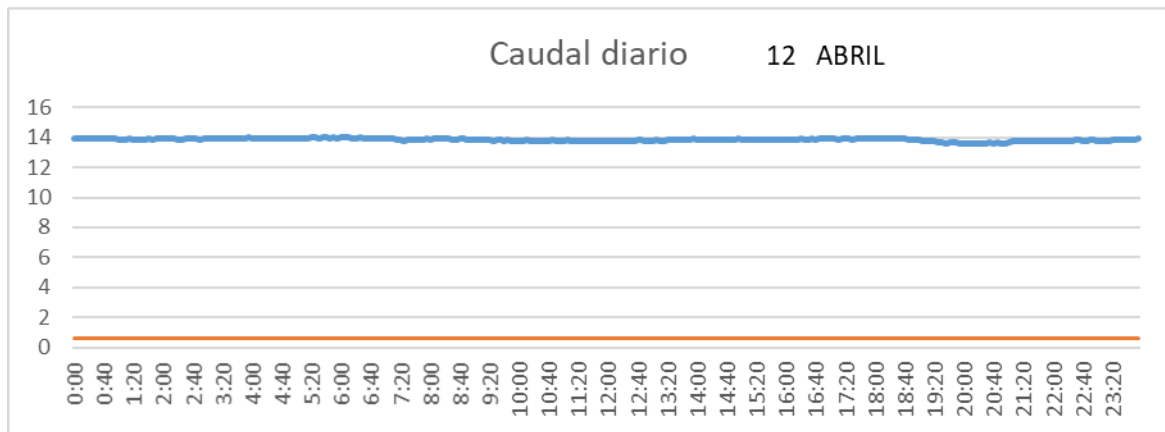
SAN LORENZO PARRILLA



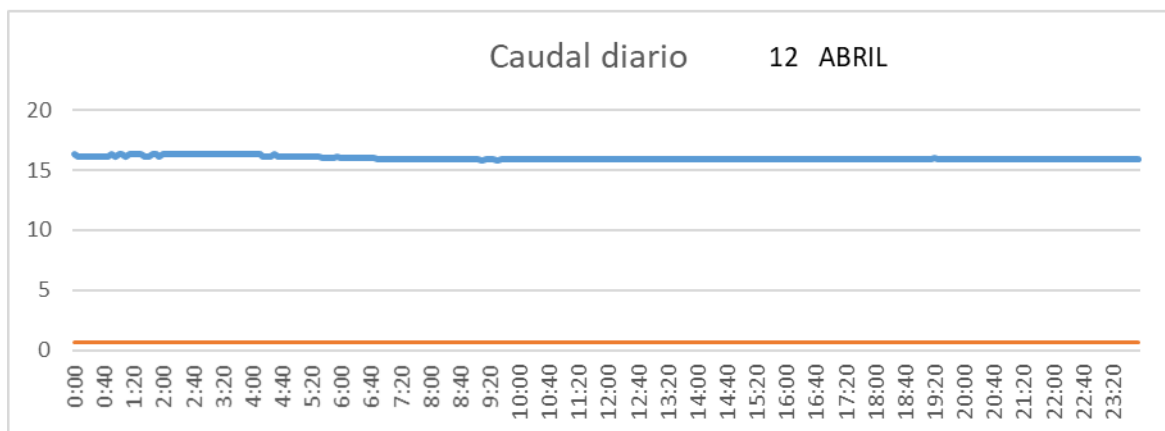
SALIDA TOBA



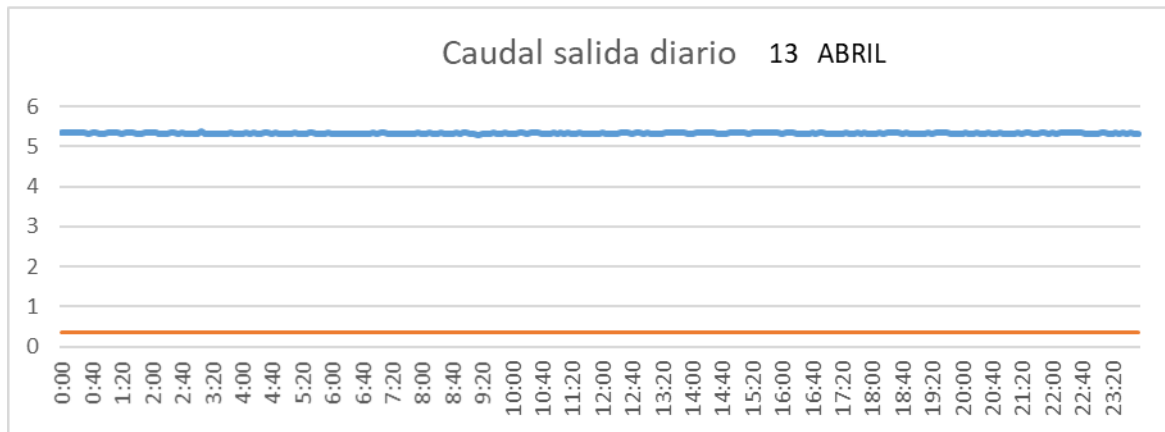
CUENCA



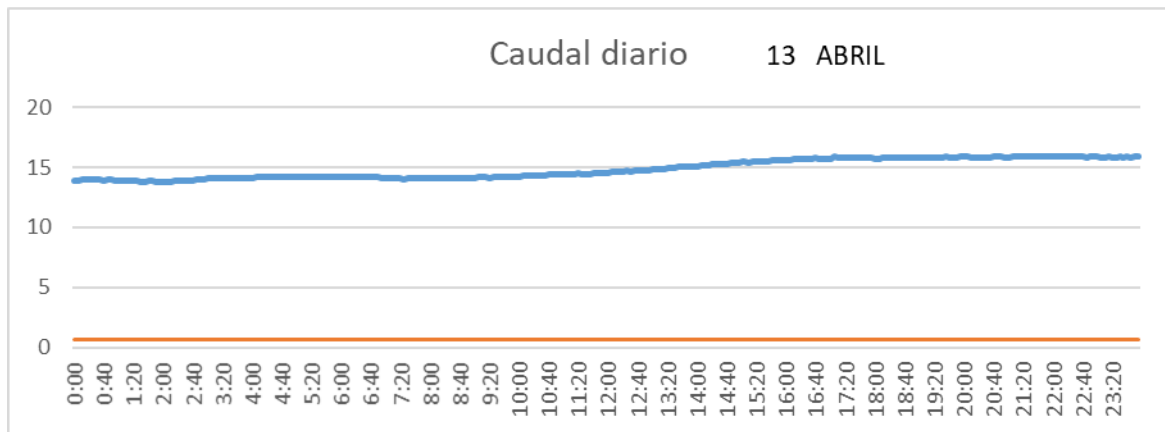
SAN LORENZO PARRILLA



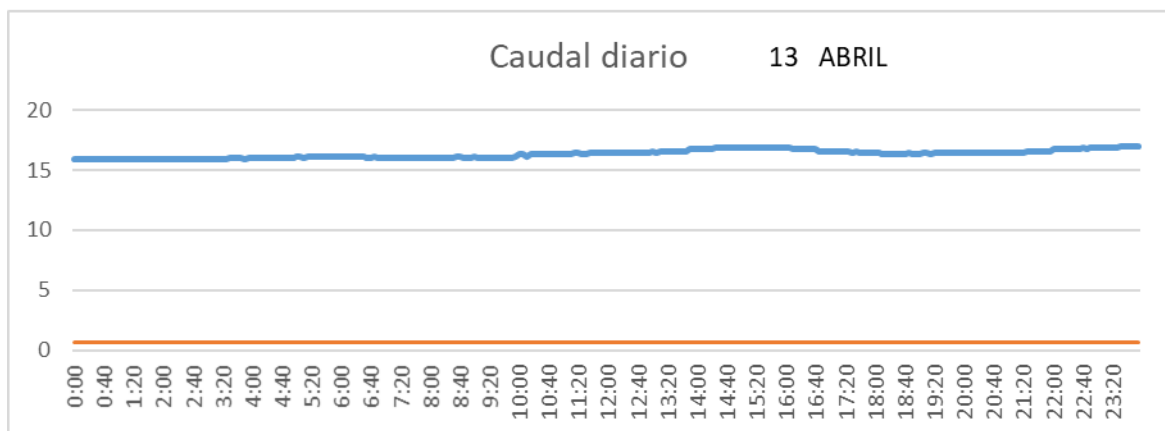
SALIDA TOBA



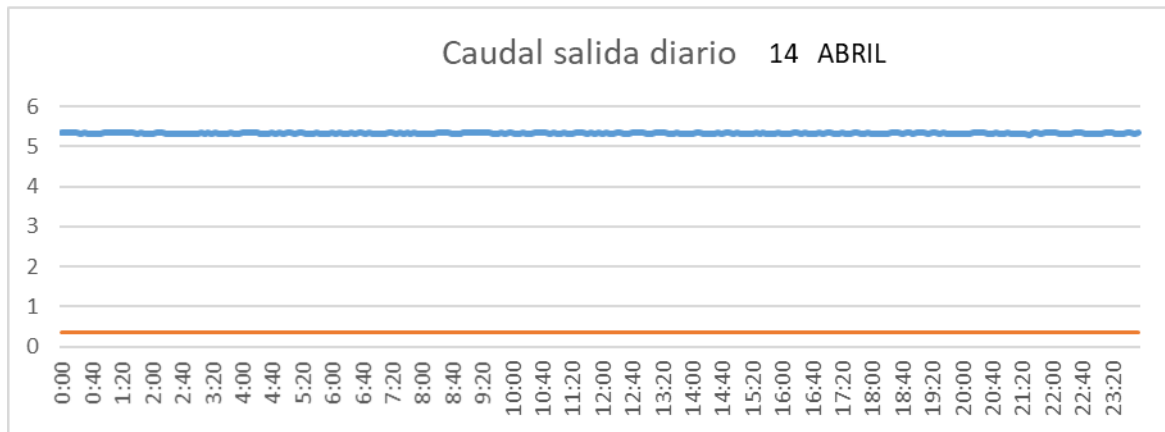
CUENCA



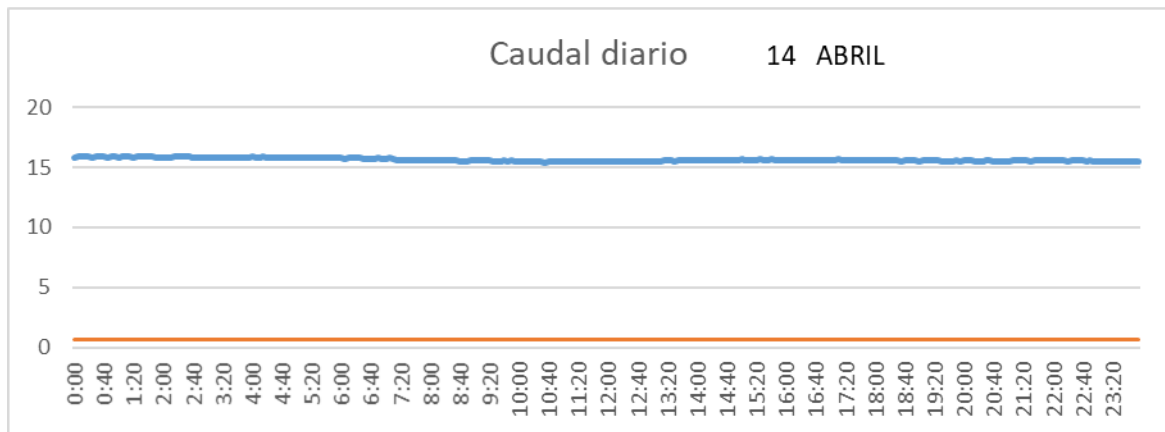
SAN LORENZO PARRILLA



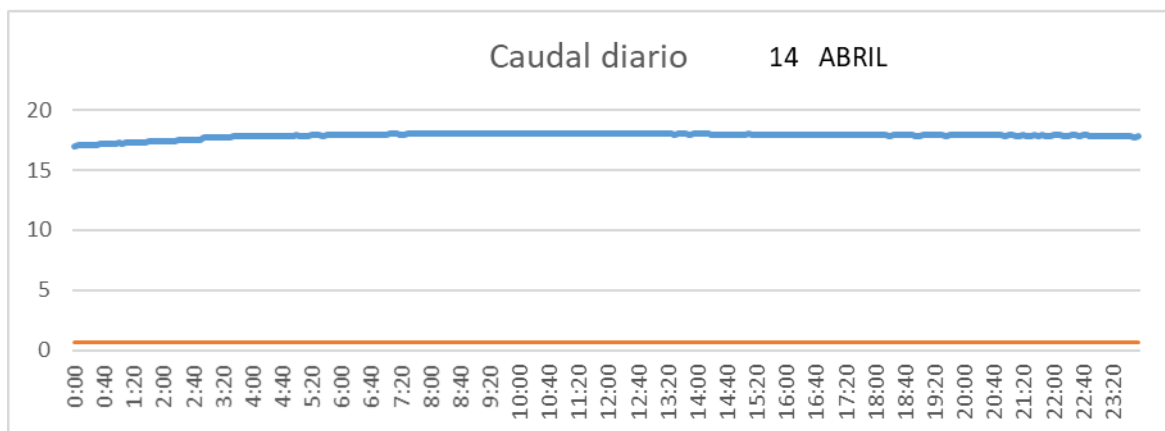
SALIDA TOBA



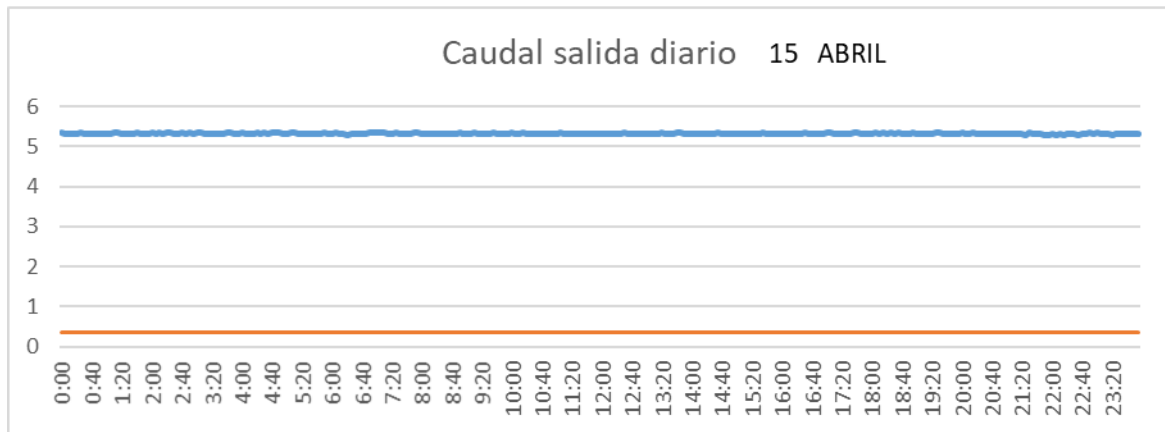
CUENCA



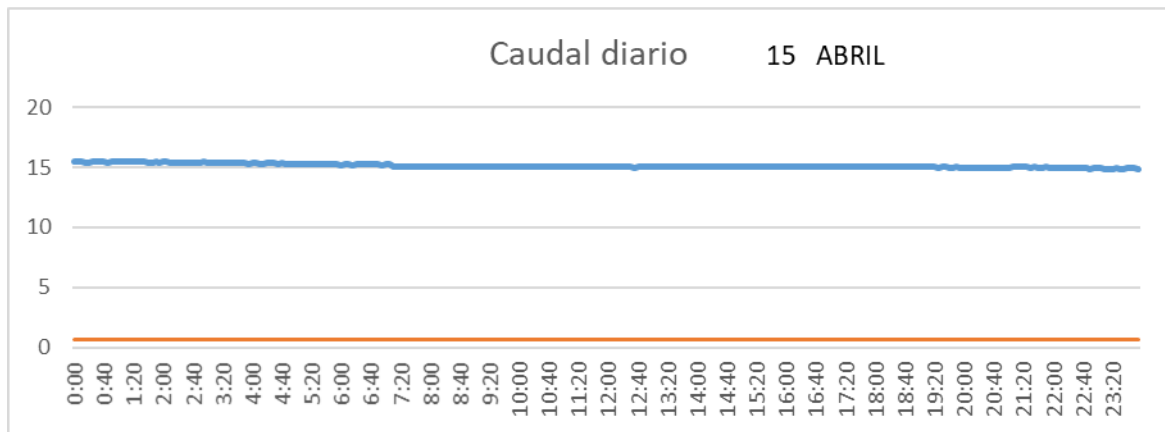
SAN LORENZO PARRILLA



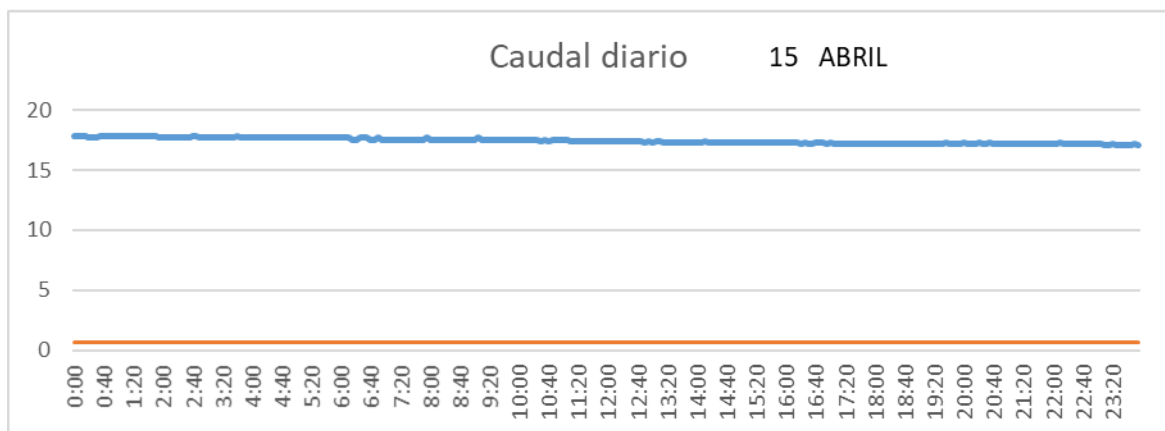
SALIDA TOBA



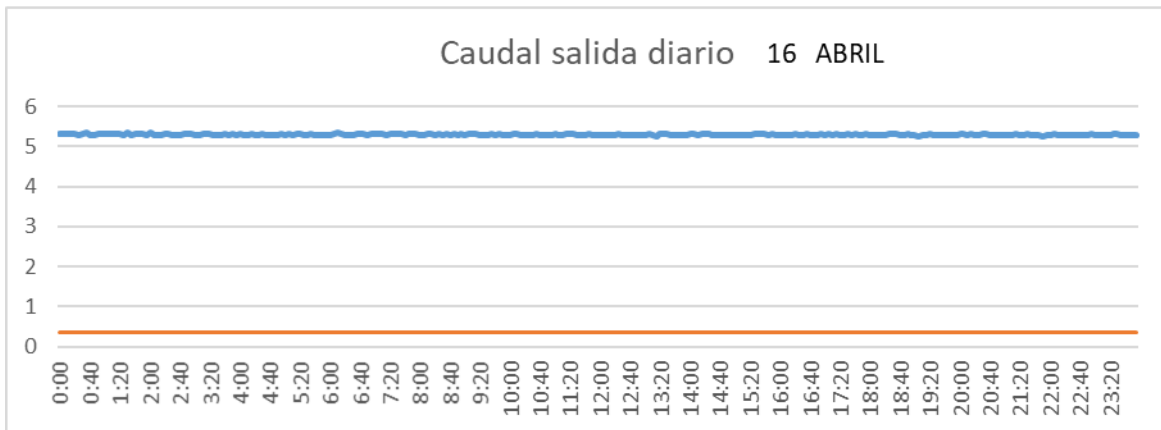
CUENCA



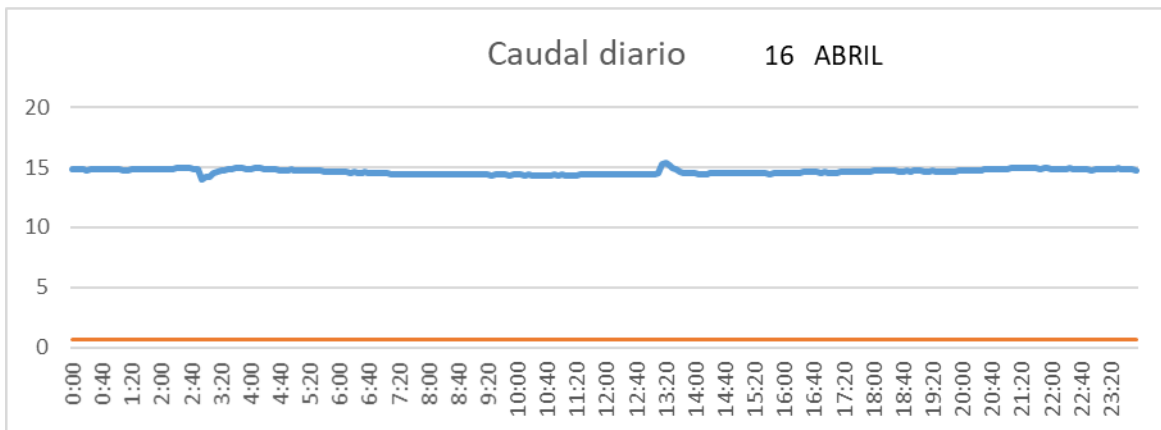
SAN LORENZO PARRILLA



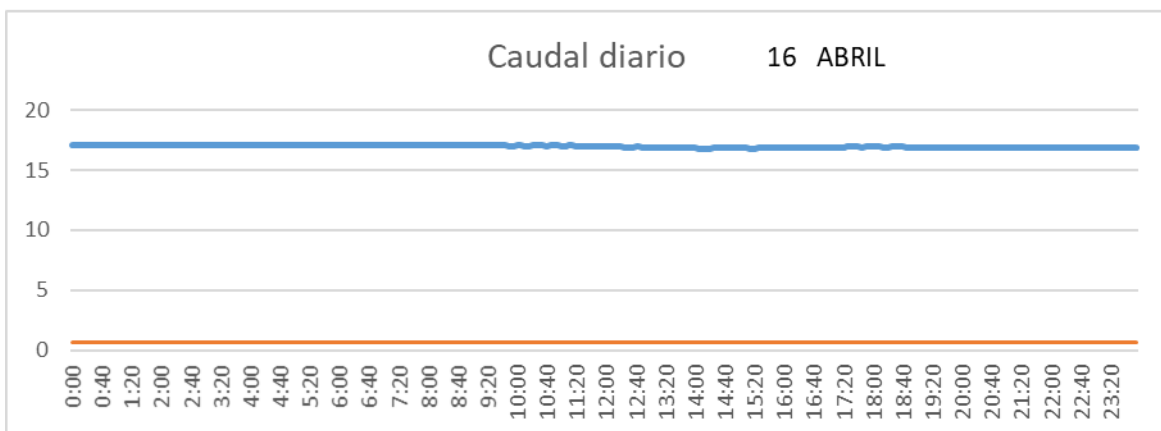
SALIDA TOBA



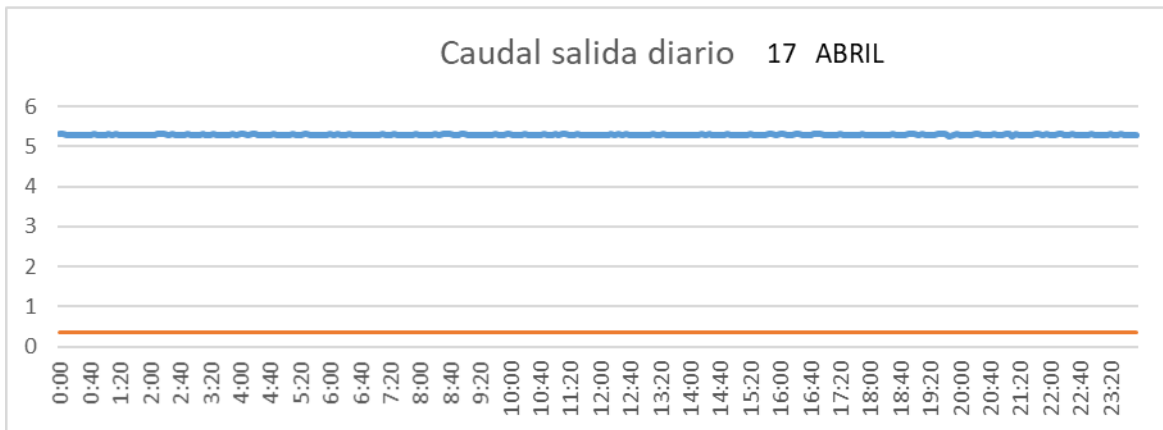
CUENCA



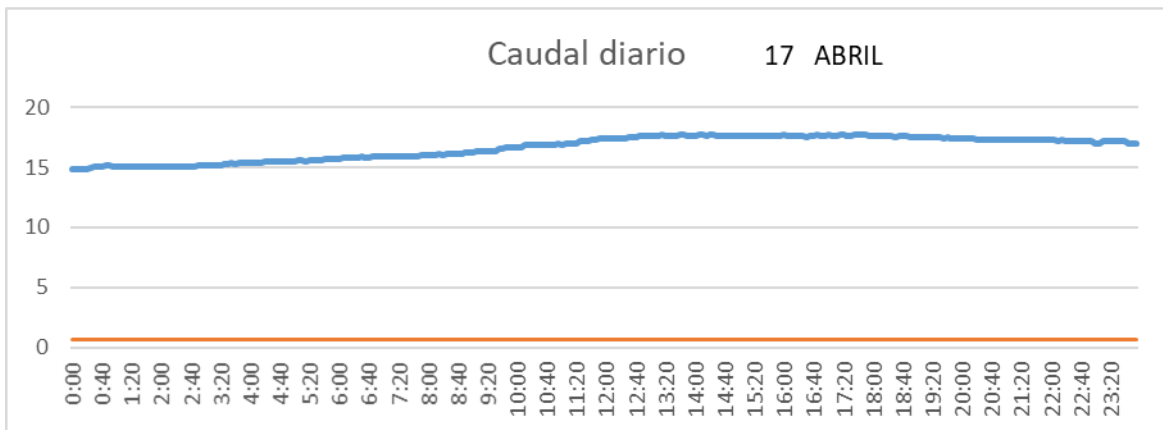
SAN LORENZO PARRILLA



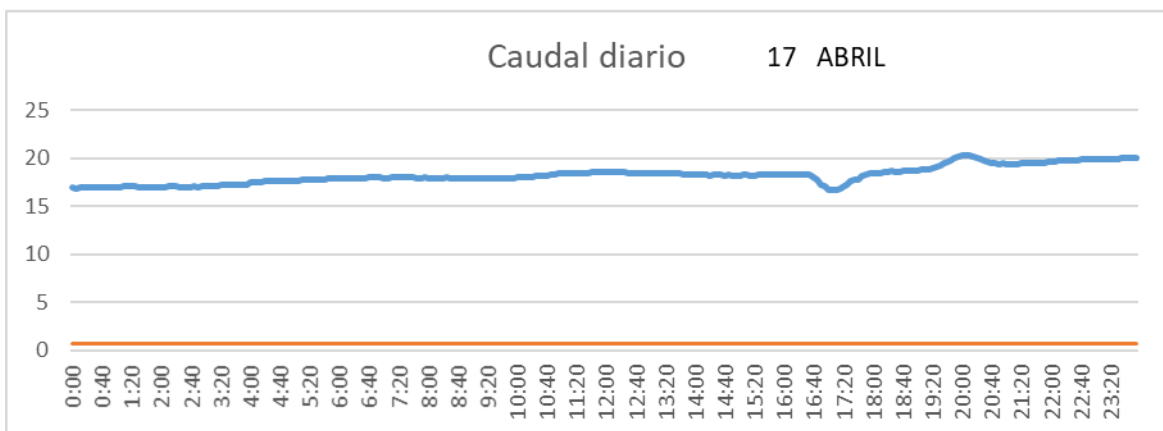
SALIDA TOBA



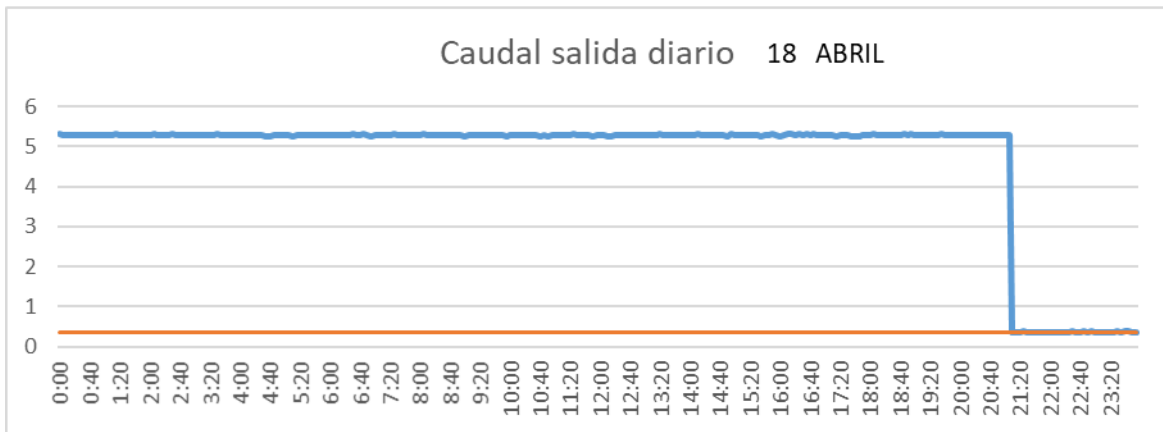
CUENCA



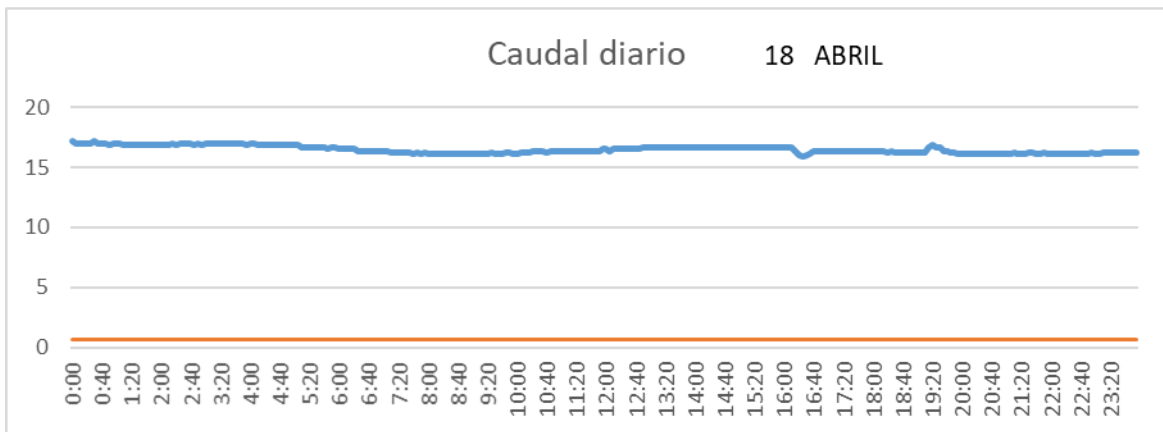
SAN LORENZO PARRILLA



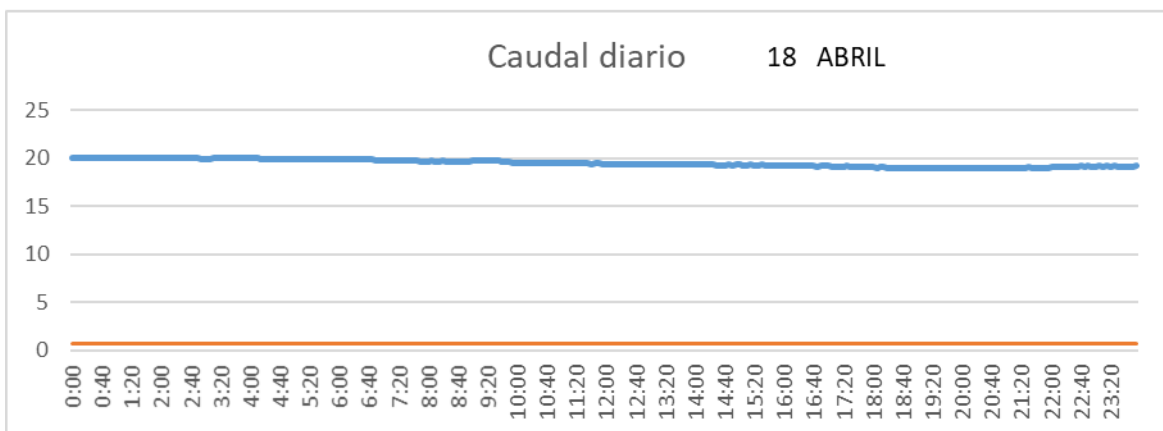
SALIDA TOBA



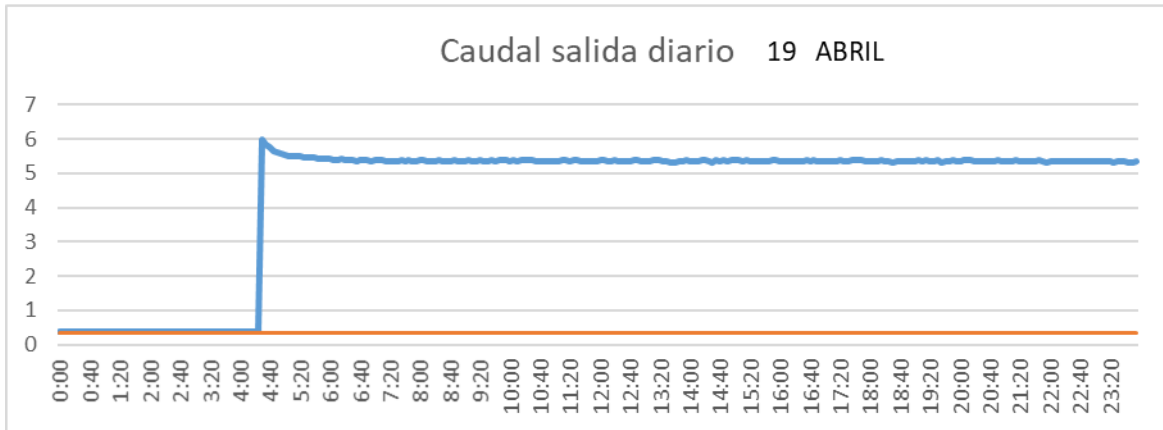
CUENCA



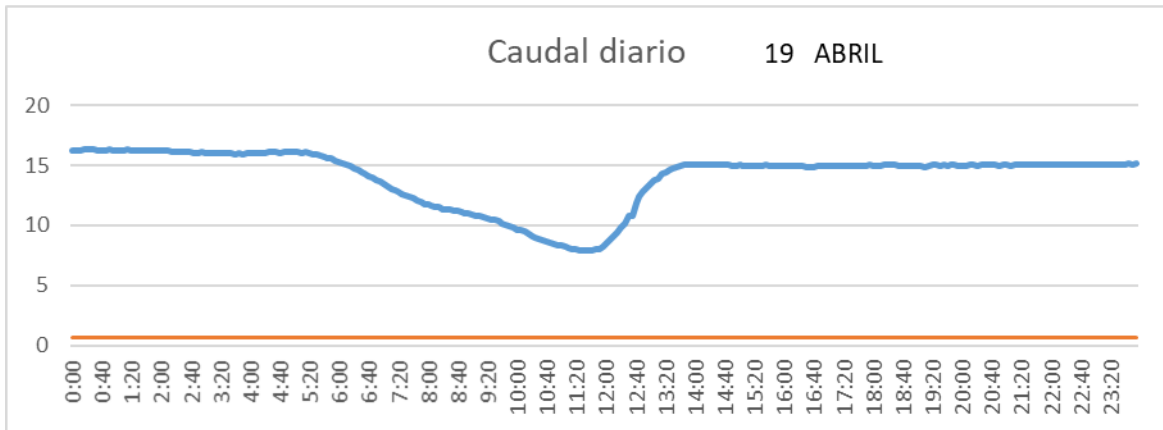
SAN LORENZO PARRILLA



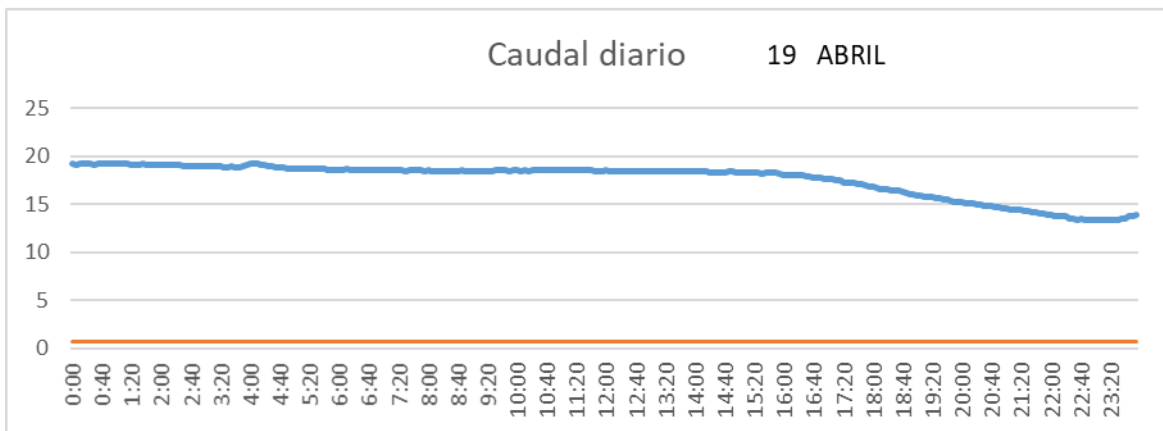
SALIDA TOBA



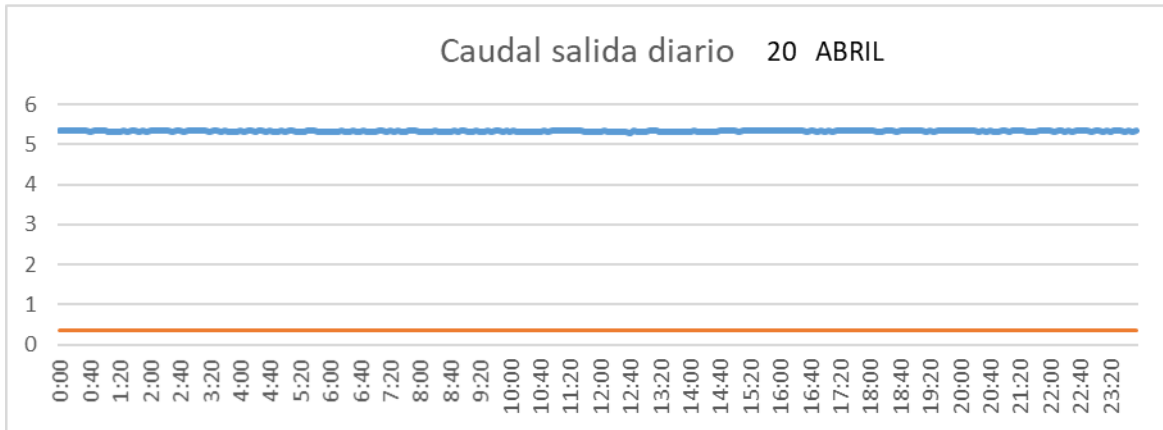
CUENCA



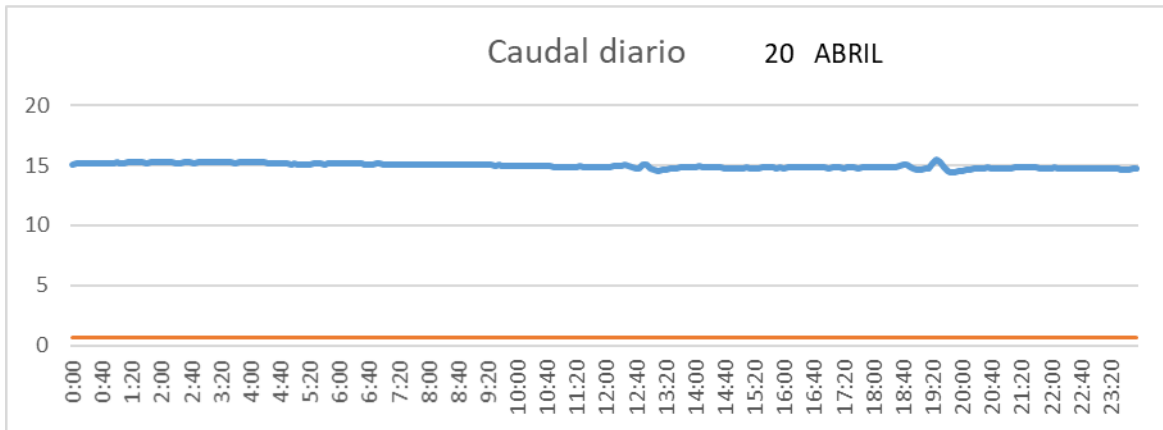
SAN LORENZO PARRILLA



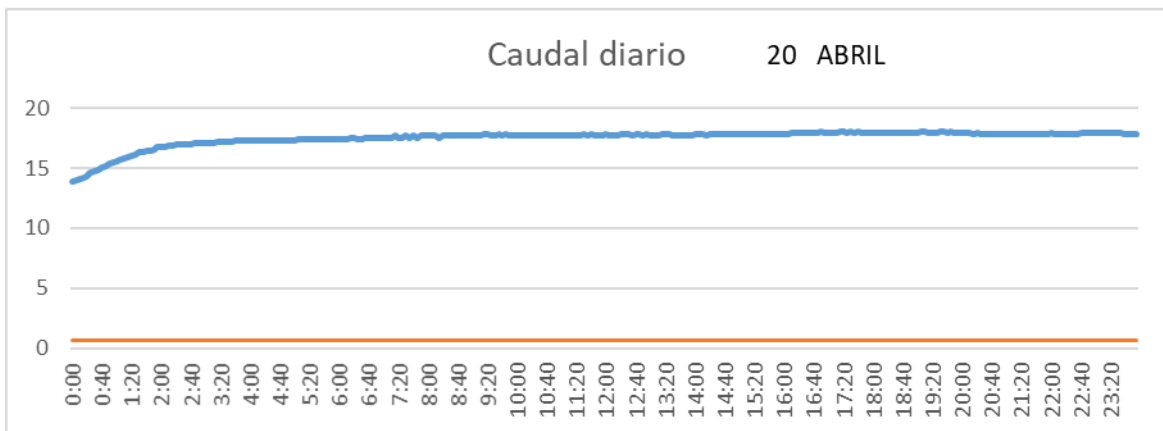
SALIDA TOBA



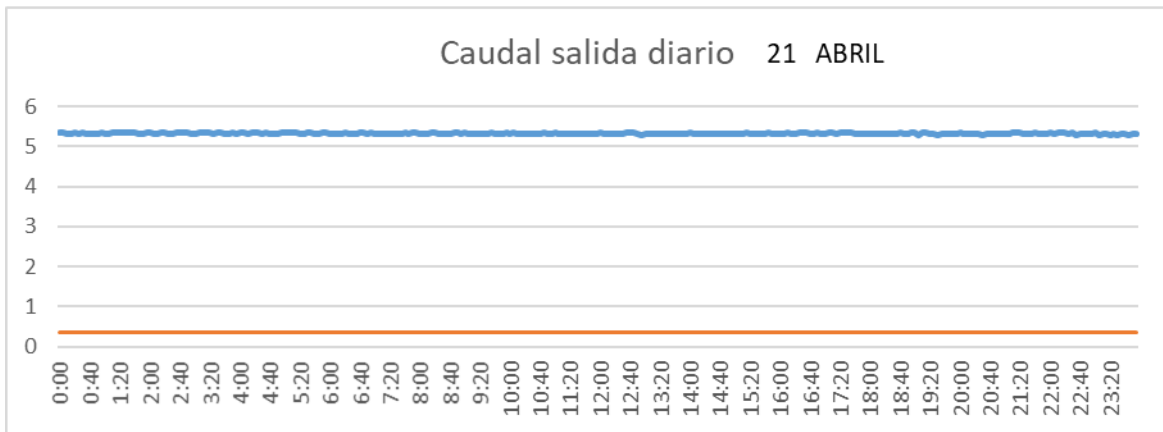
CUENCA



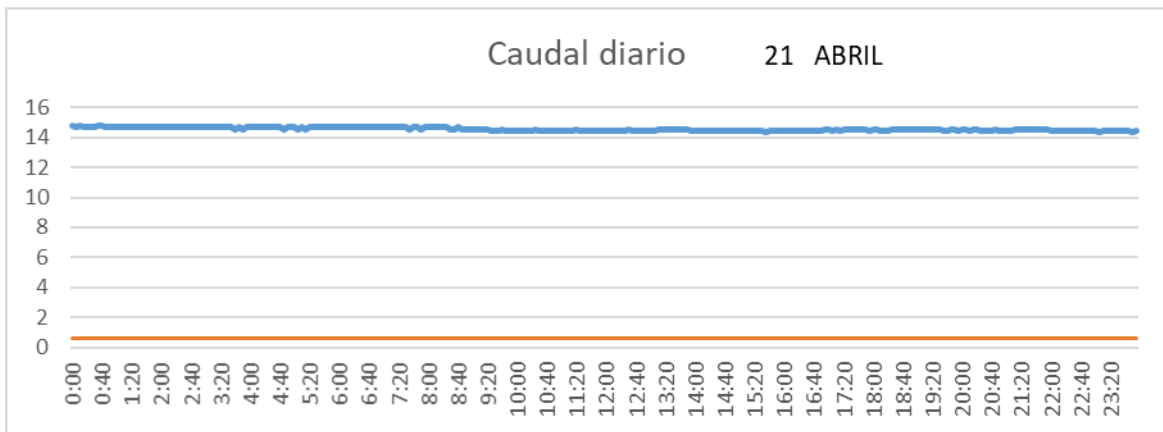
SAN LORENZO PARRILLA



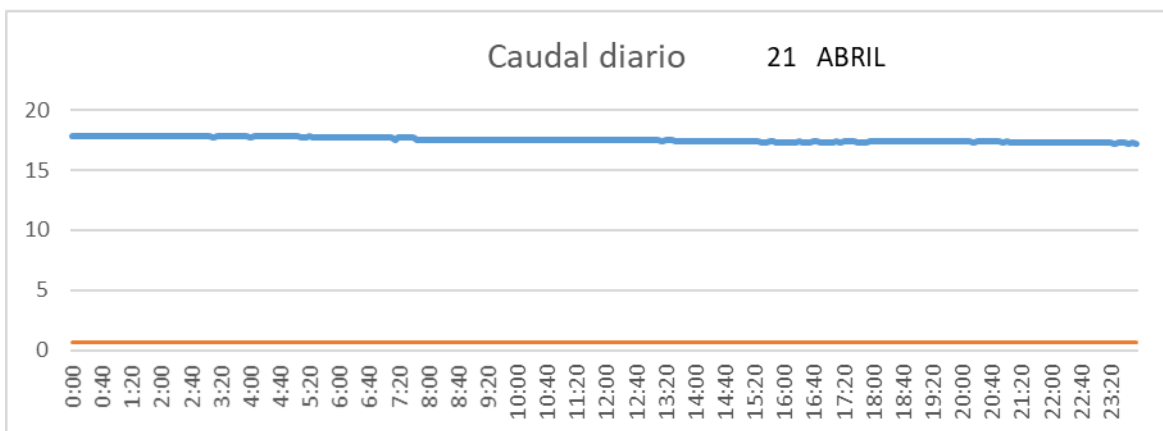
SALIDA TOBA



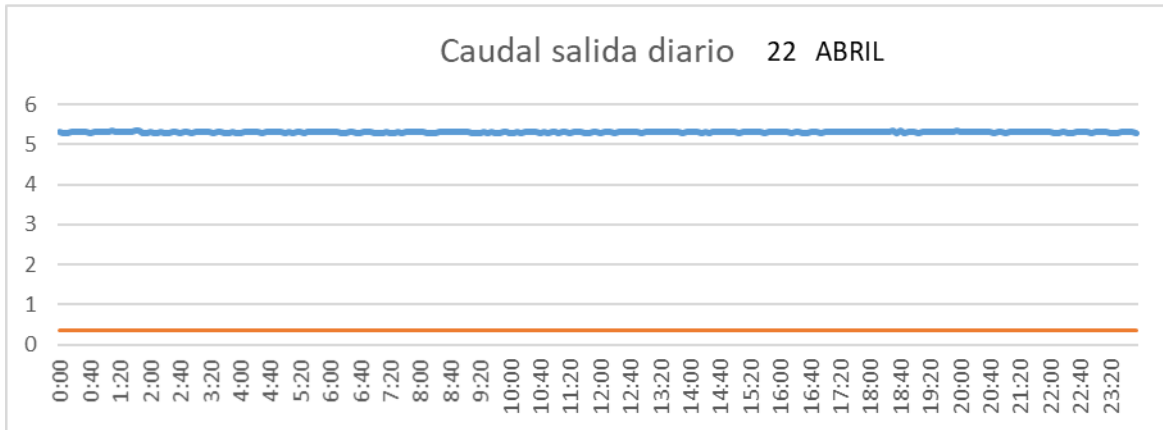
CUENCA



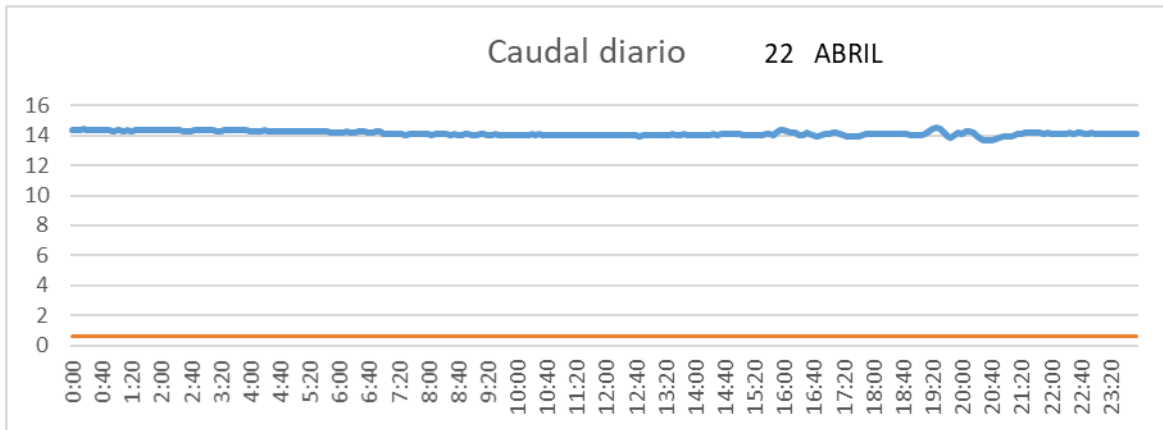
SAN LORENZO PARRILLA



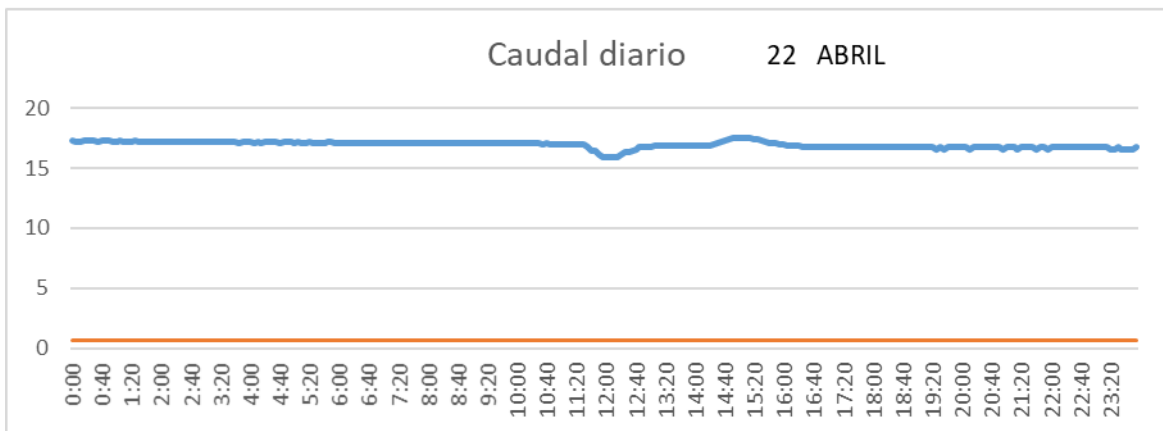
SALIDA TOBA



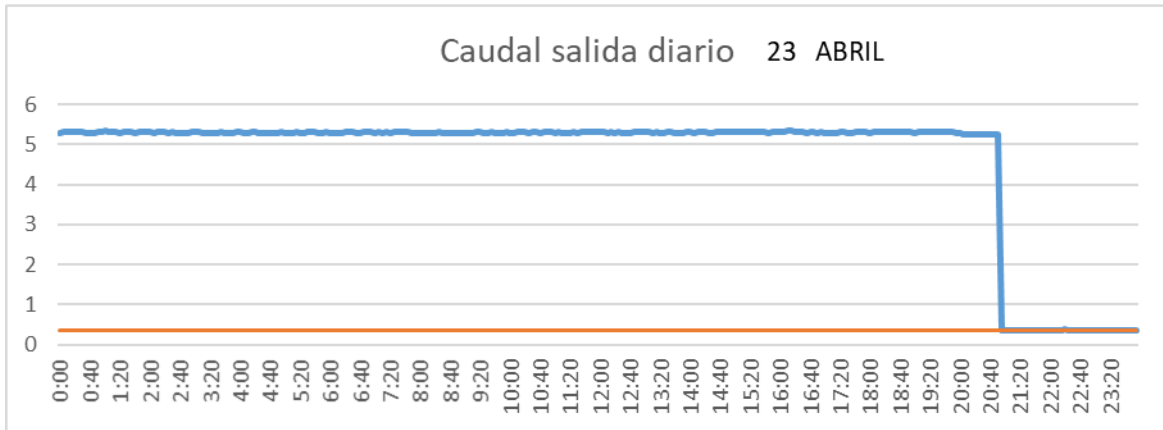
CUENCA



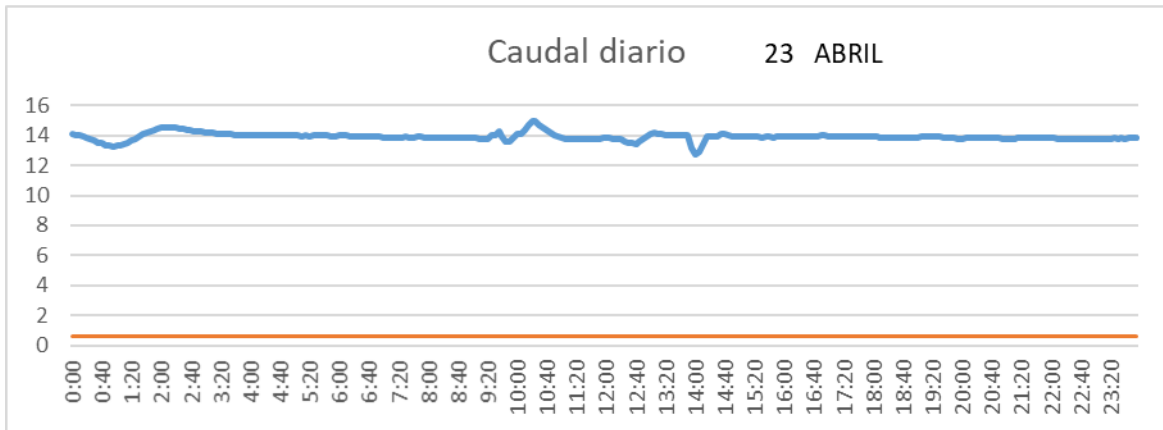
SAN LORENZO PARRILLA



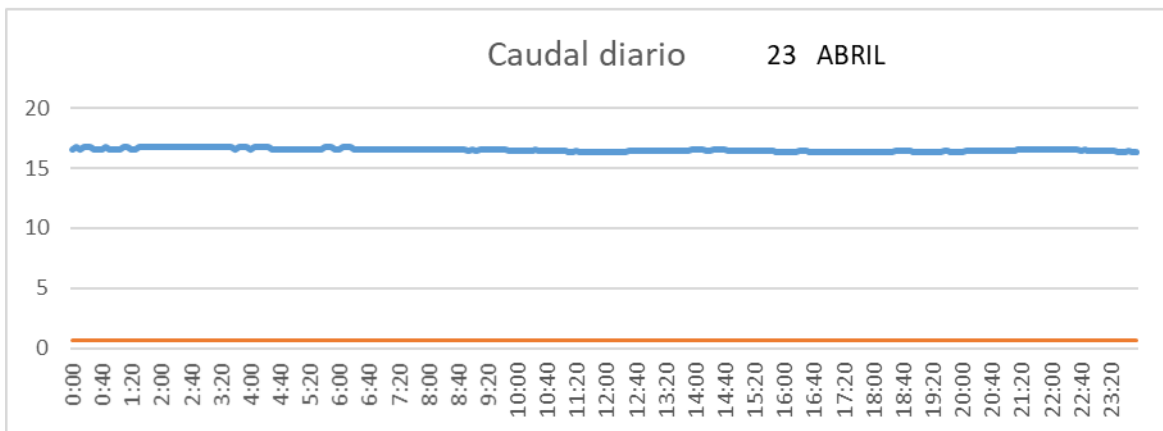
SALIDA TOBA



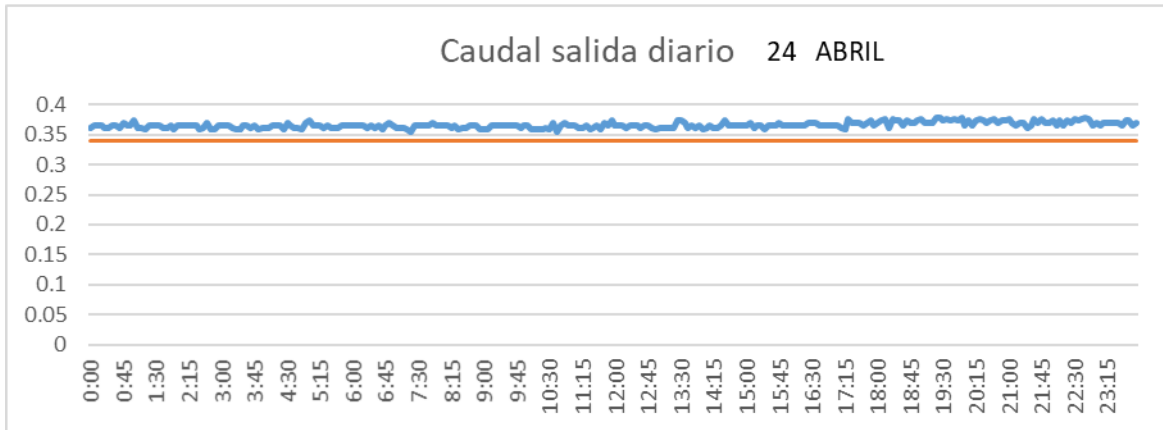
CUENCA



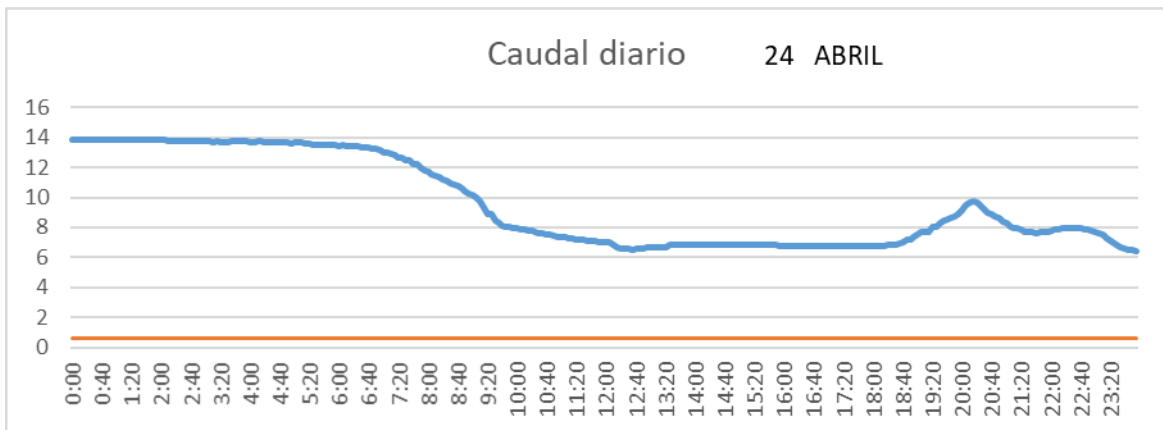
SAN LORENZO PARRILLA



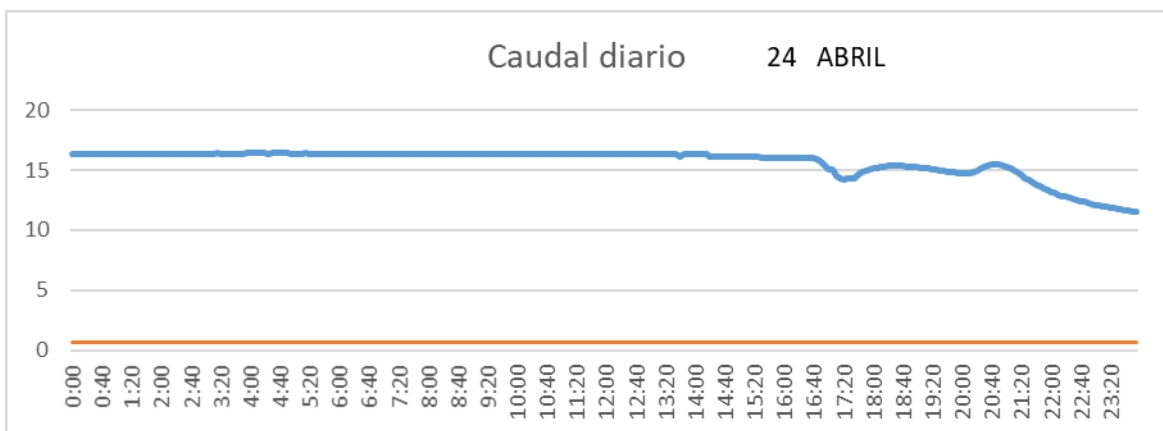
SALIDA TOBA



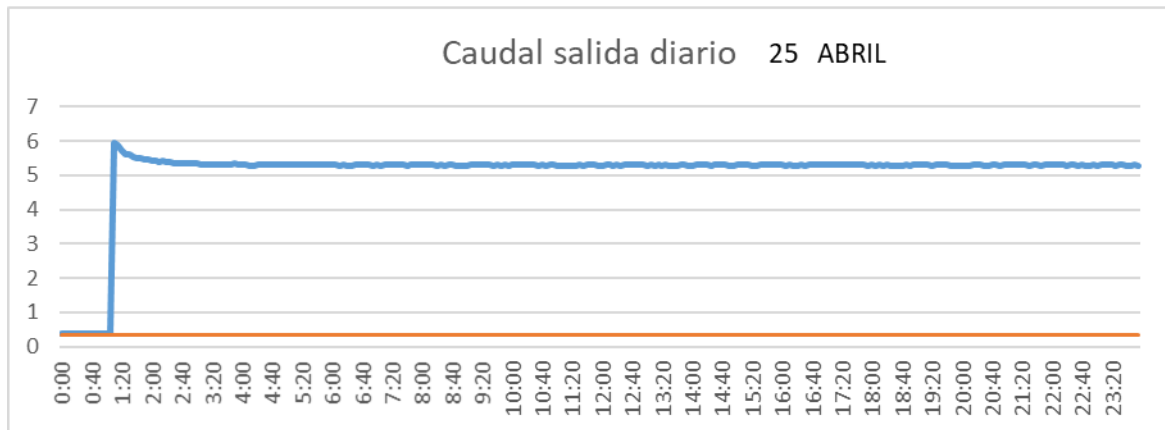
CUENCA



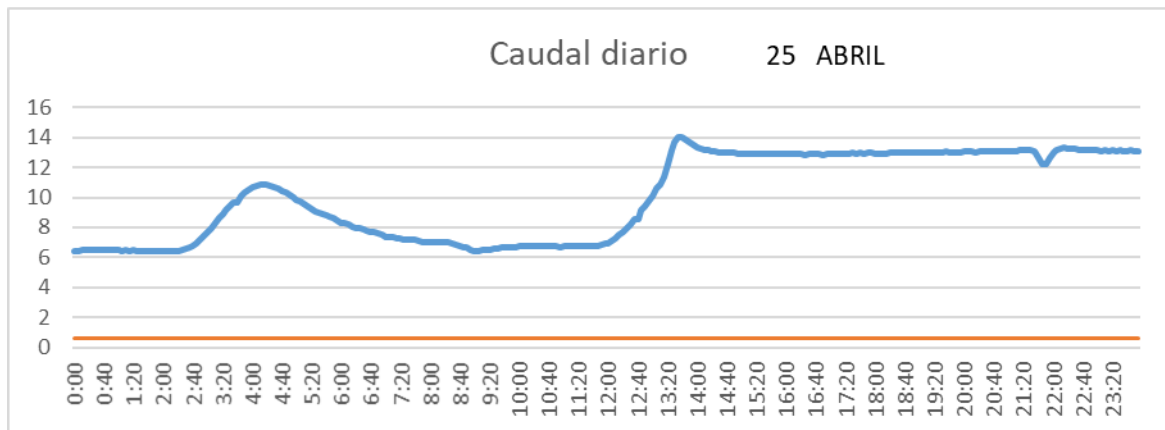
SAN LORENZO PARRILLA



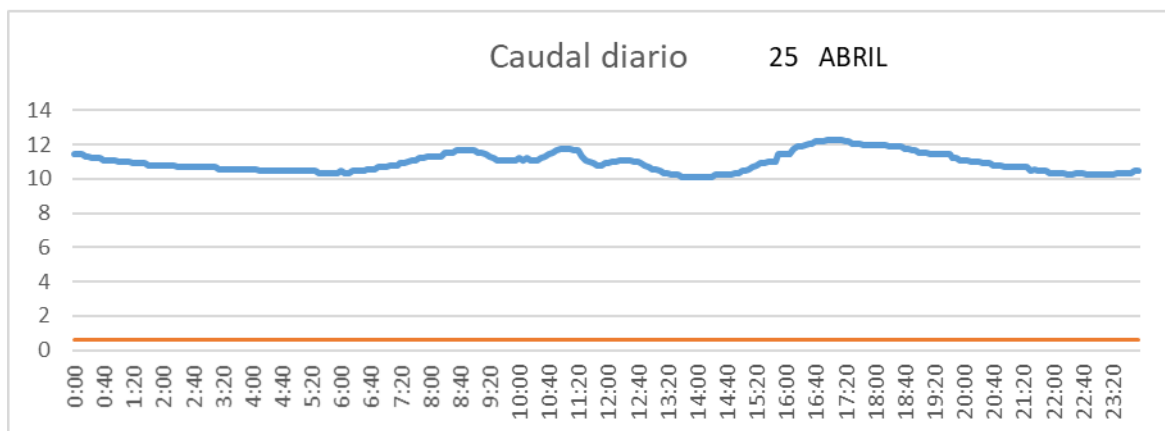
SALIDA TOBA



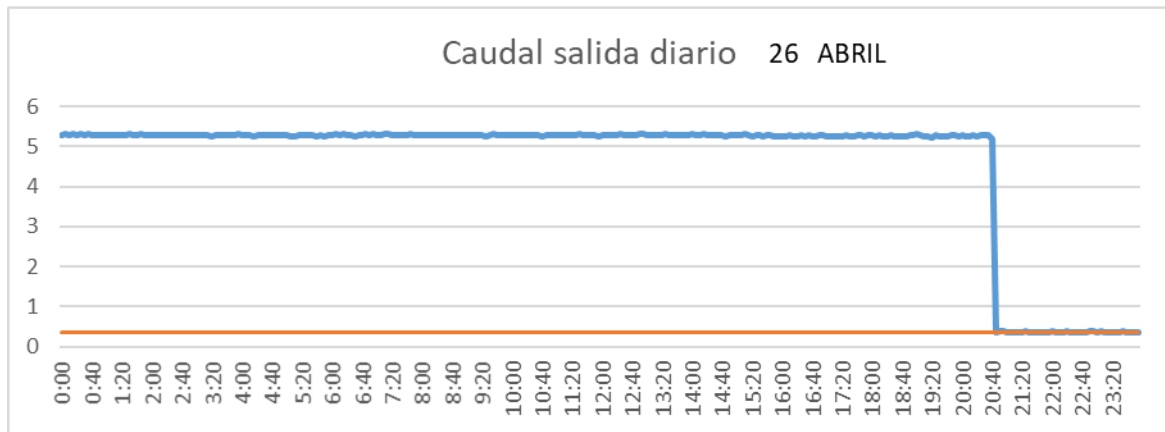
CUENCA



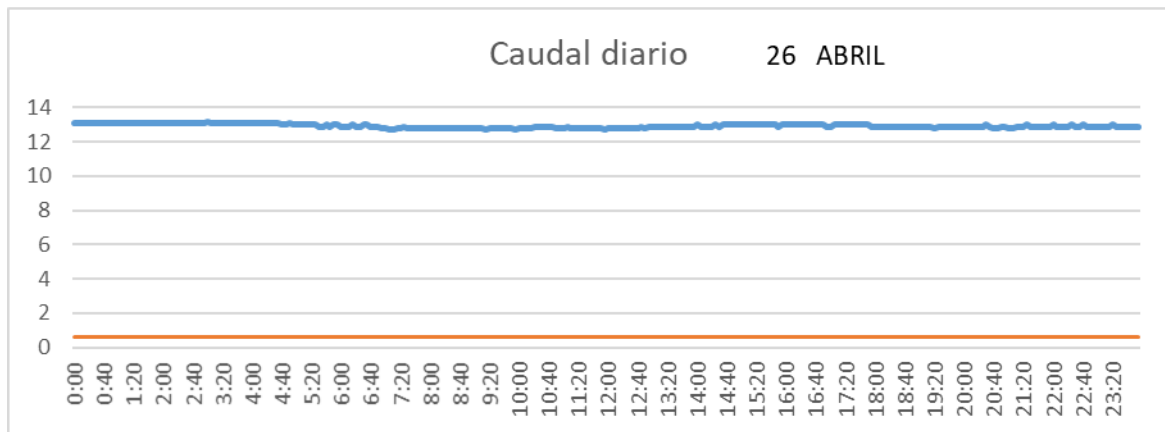
SAN LORENZO PARRILLA



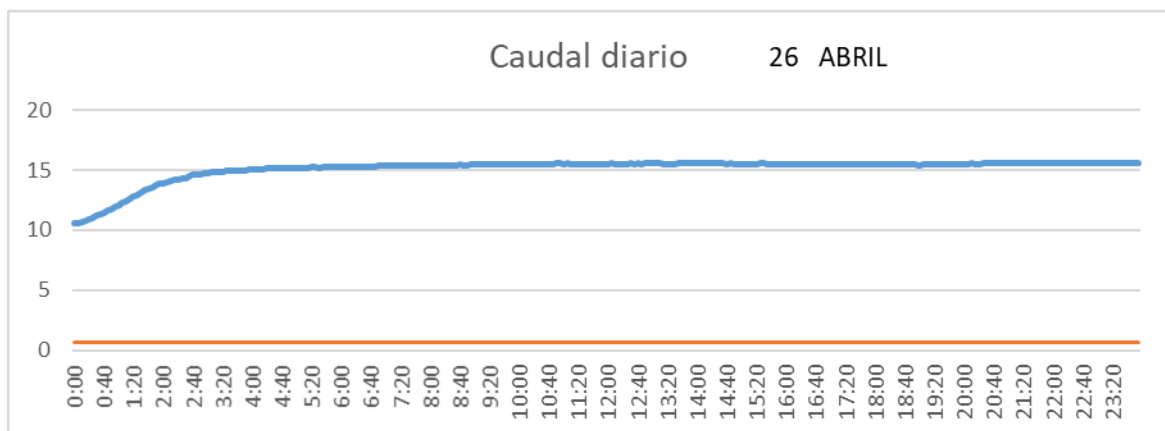
SALIDA TOBA



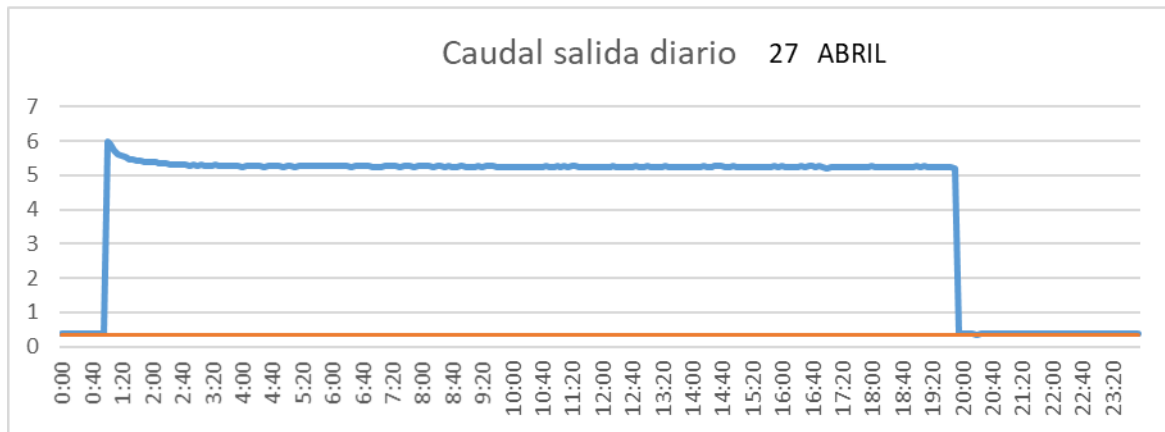
CUENCA



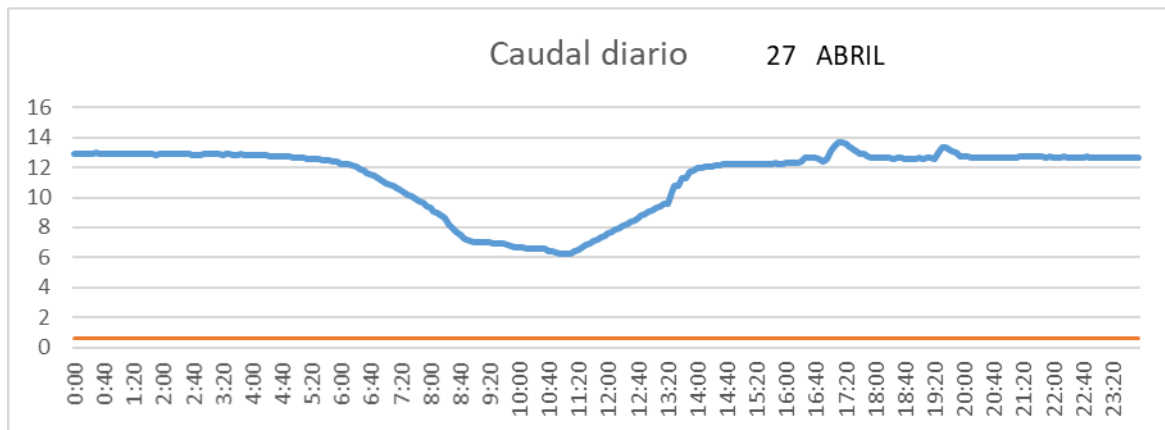
SAN LORENZO PARRILLA



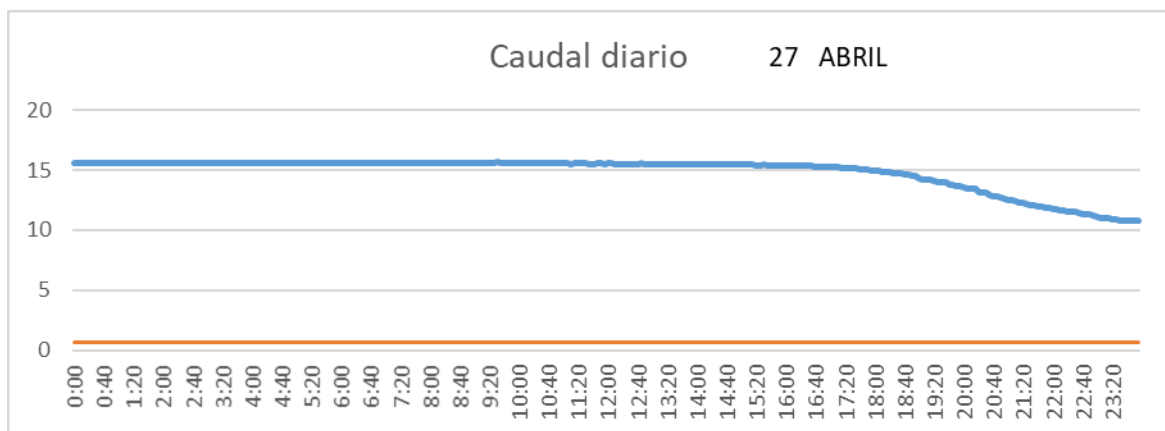
SALIDA TOBA



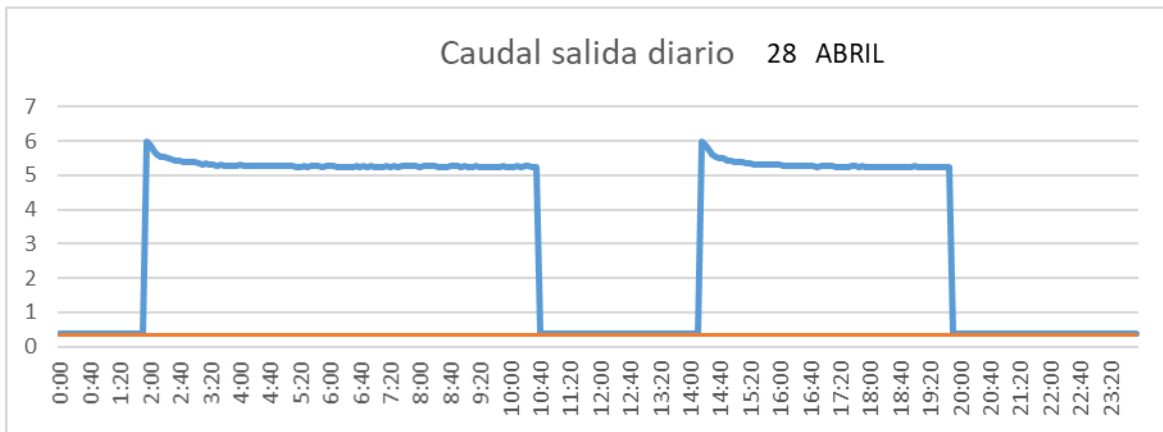
CUENCA



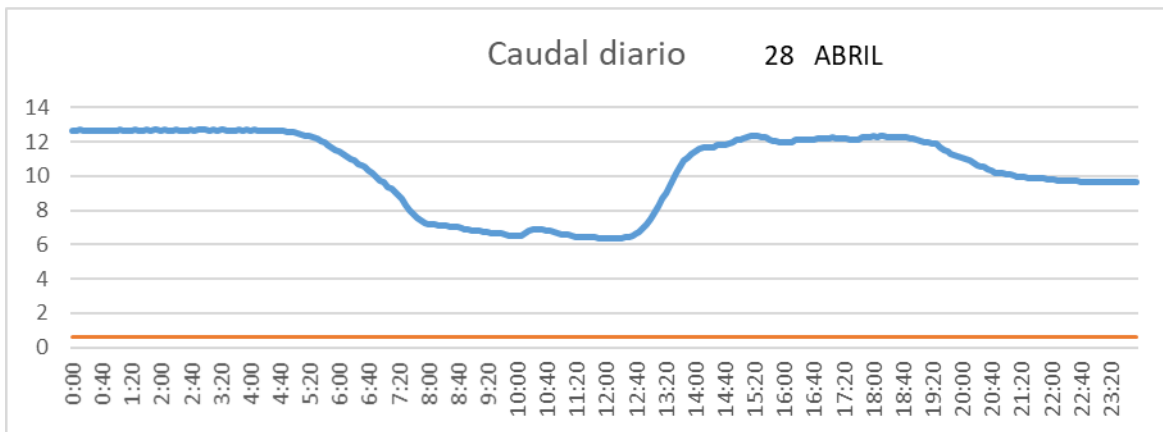
SAN LORENZO PARRILLA



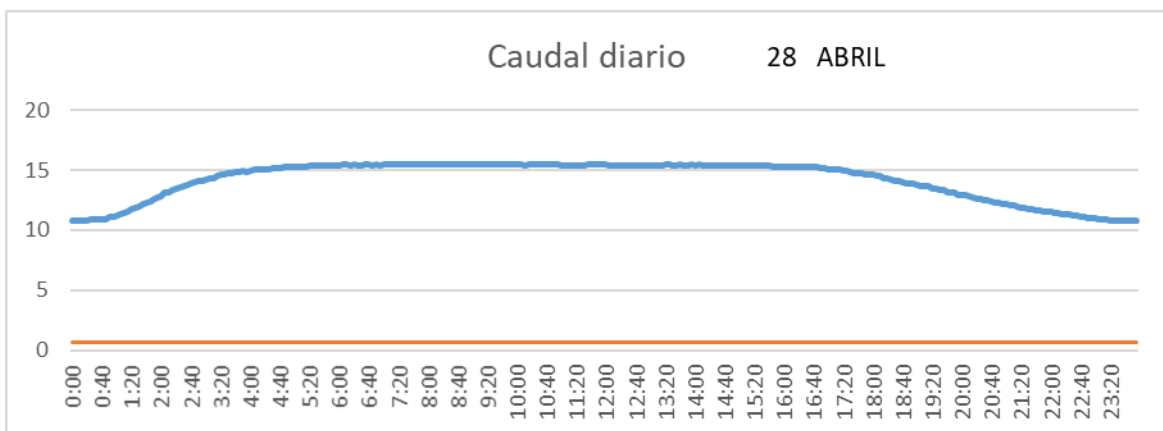
SALIDA TOBA



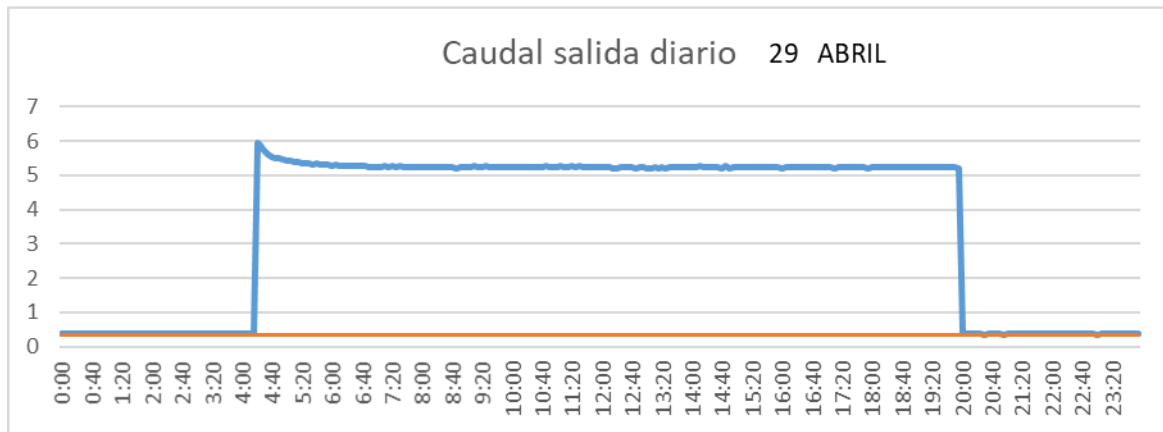
CUENCA



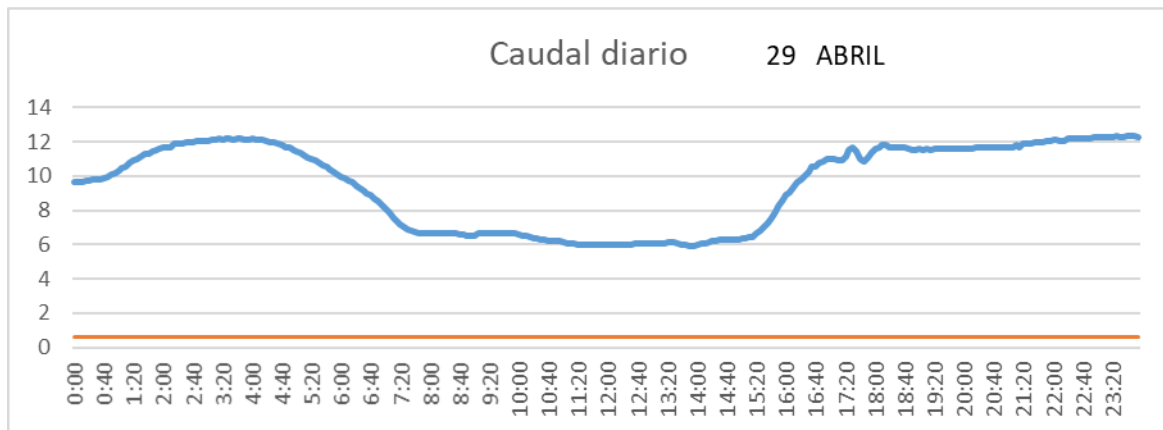
SAN LORENZO PARRILLA



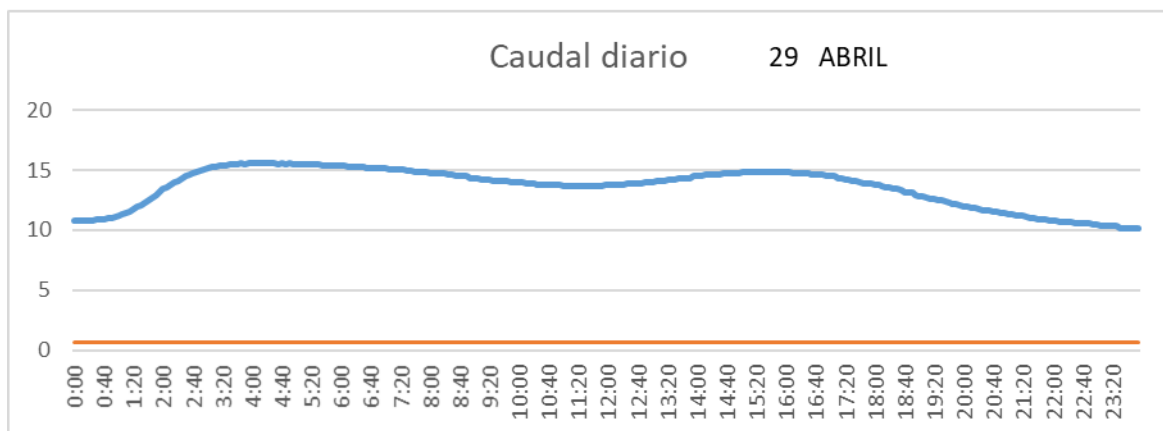
SALIDA TOBA



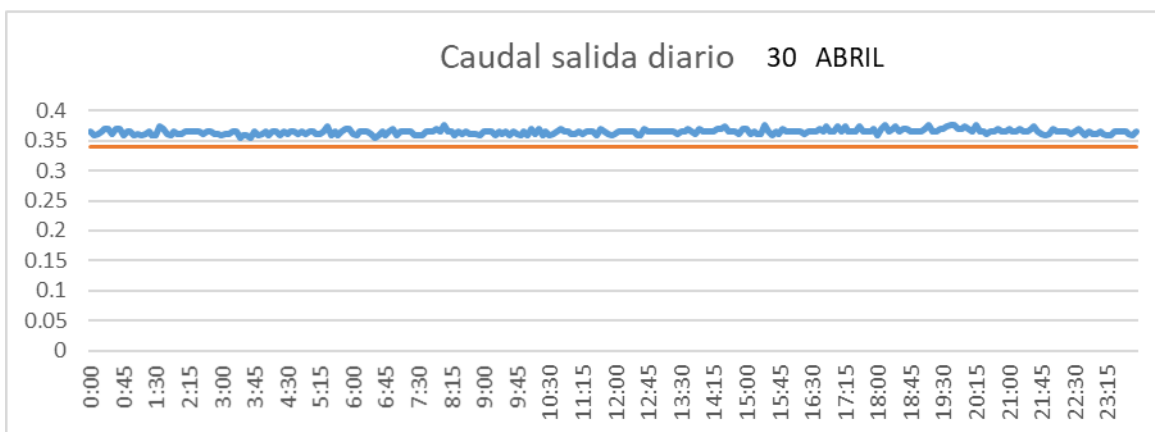
CUENCA



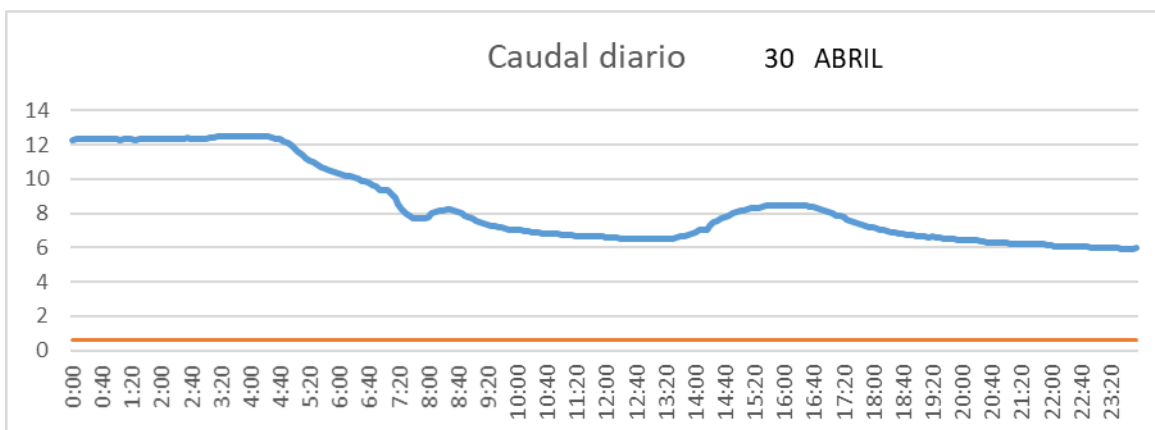
SAN LORENZO PARRILLA



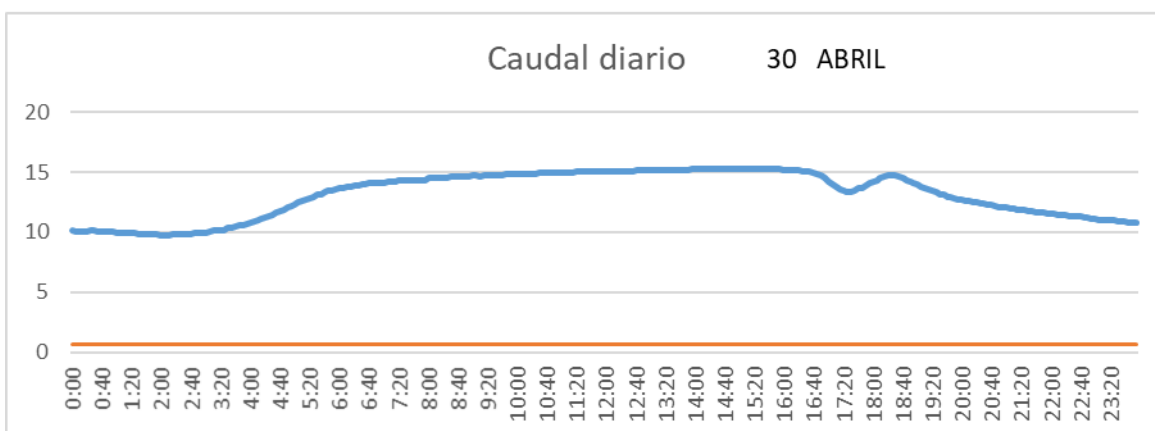
SALIDA TOBA



CUENCA

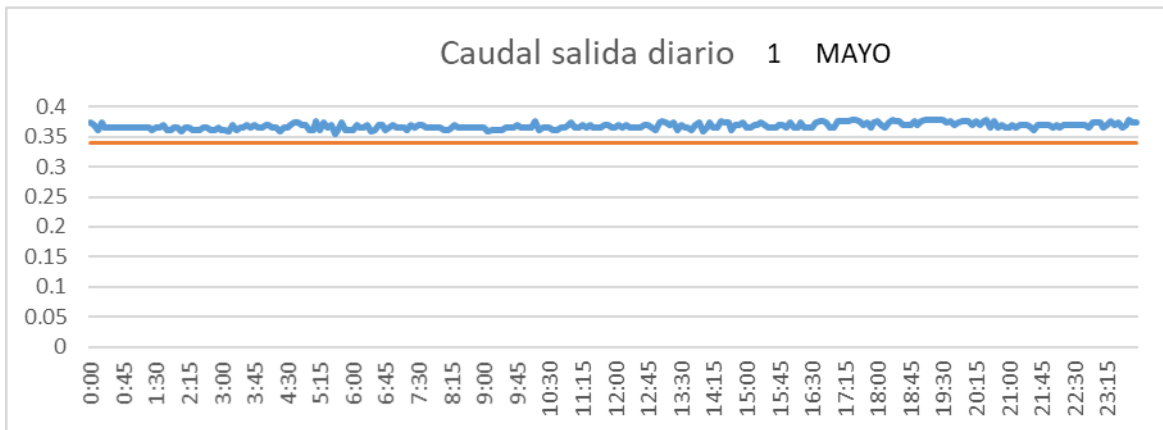


SAN LORENZO PARRILLA

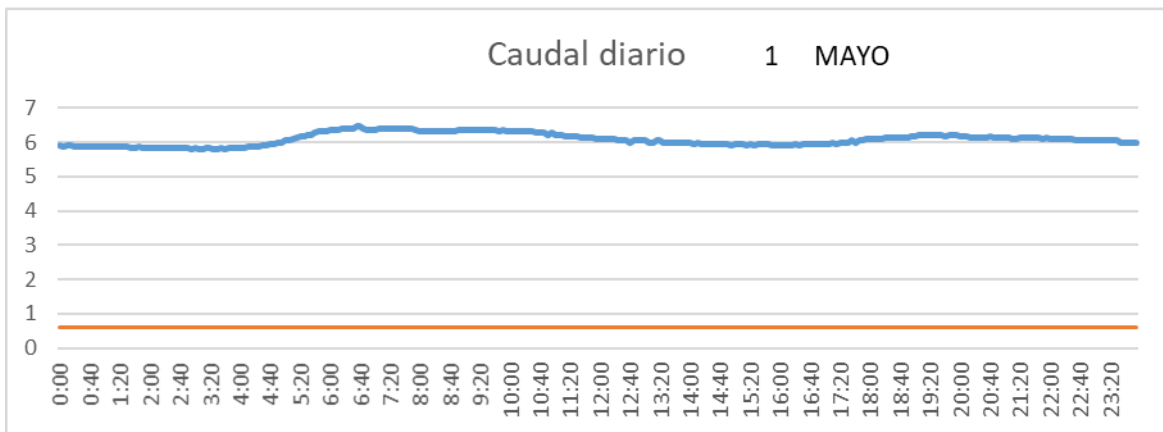


2.2.5 Mayo

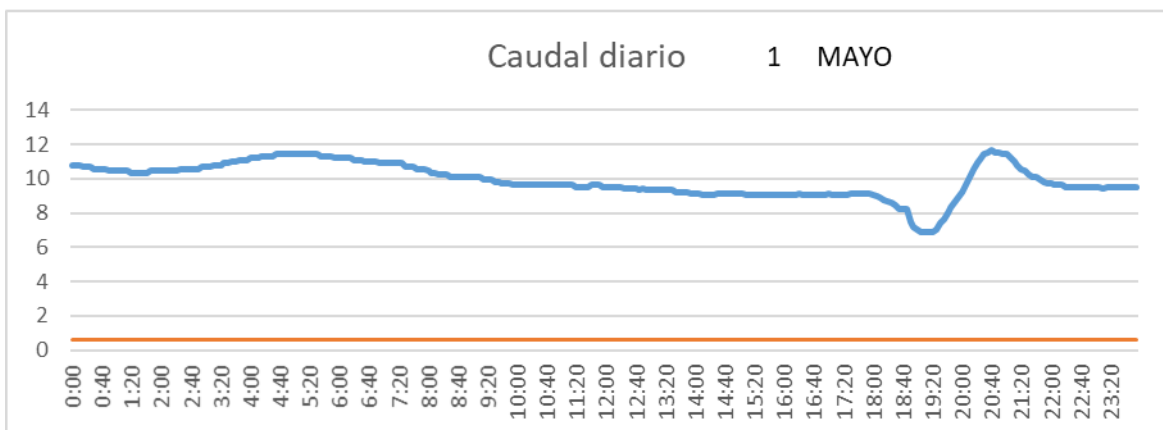
SALIDA TOBA



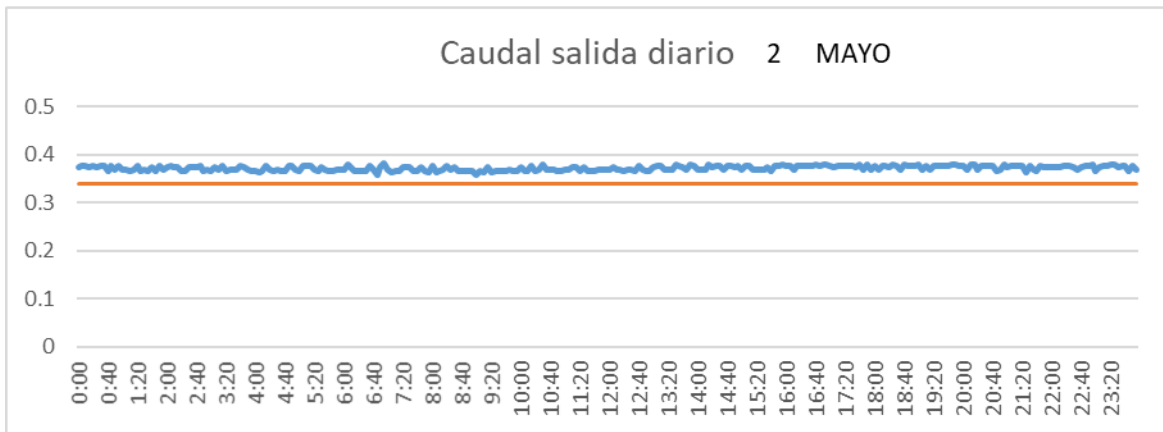
CUENCA



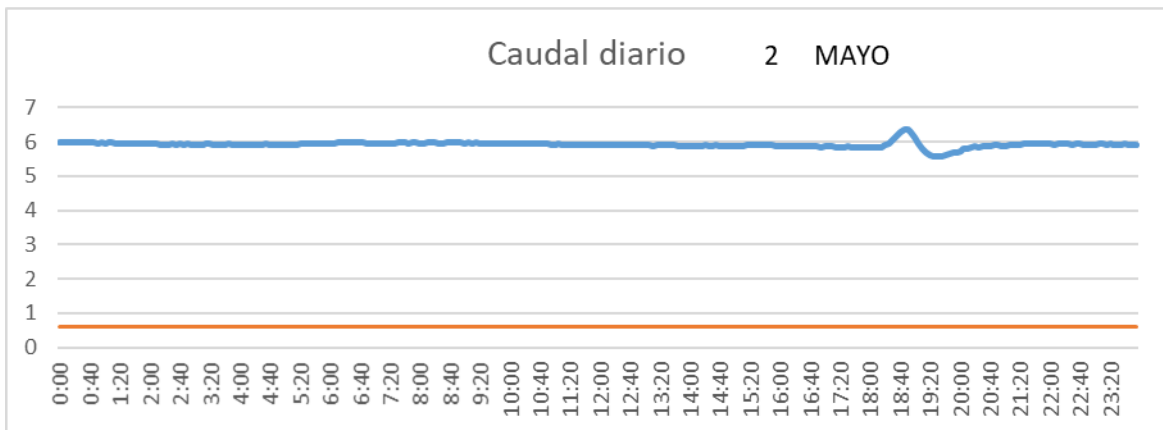
SAN LORENZO PARRILLA



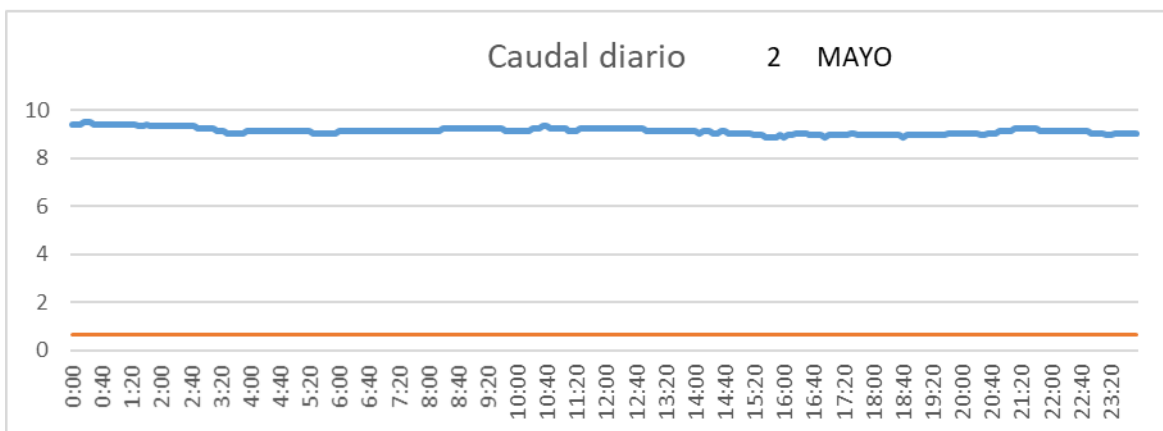
SALIDA TOBA



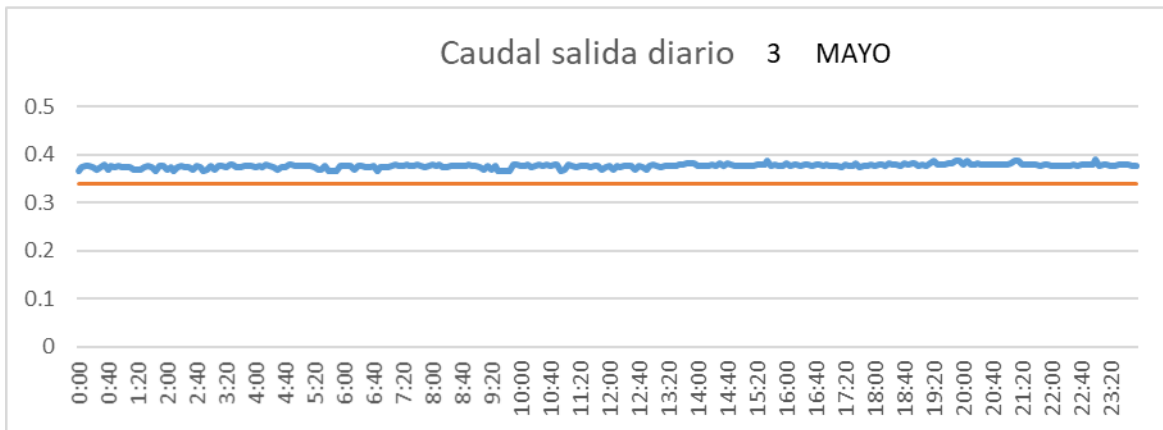
CUENCA



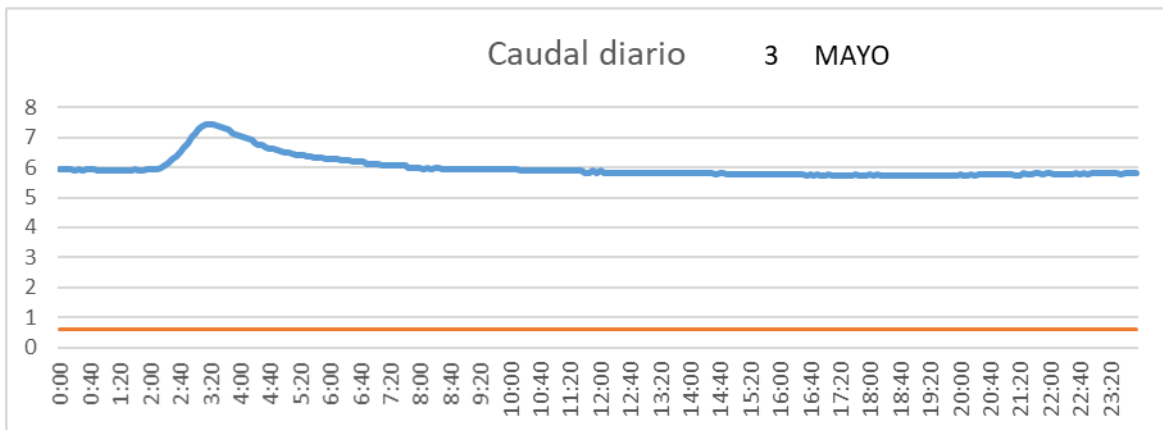
SAN LORENZO PARRILLA



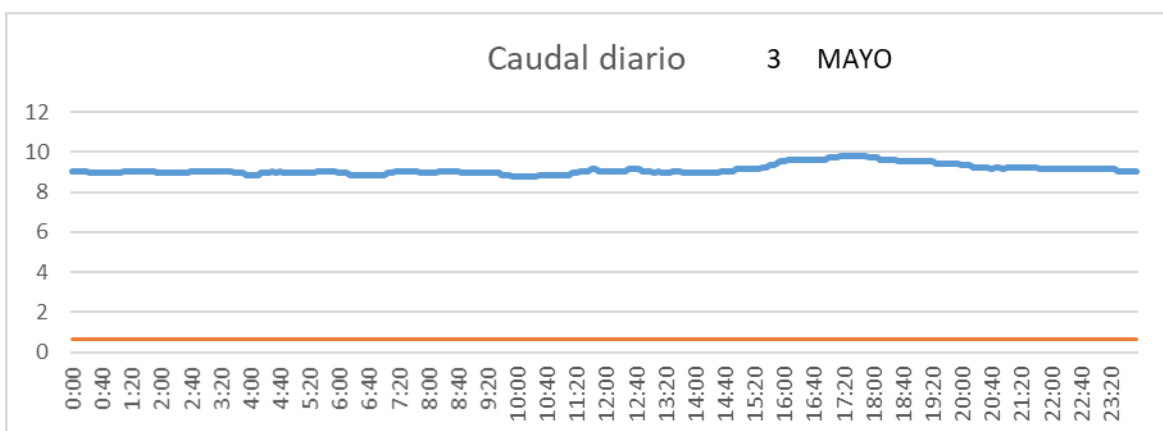
SALIDA TOBA



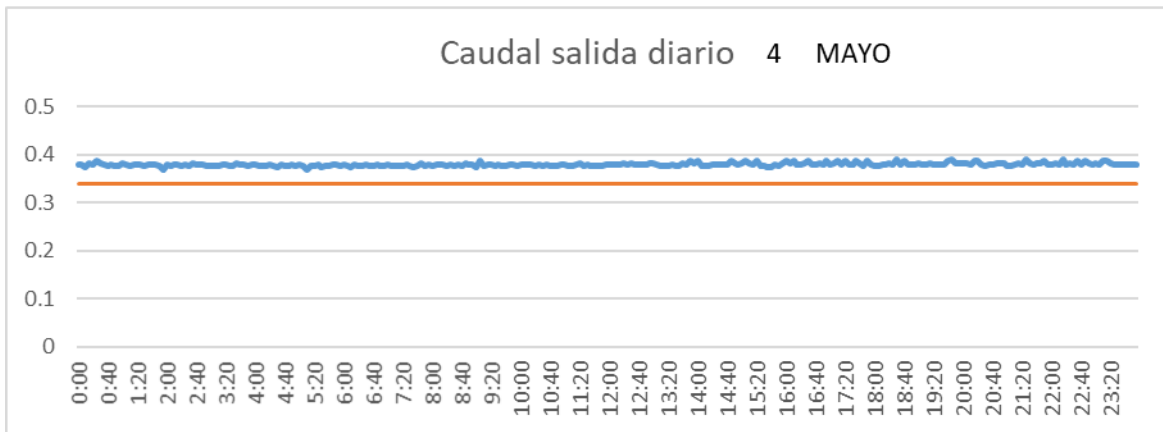
CUENCA



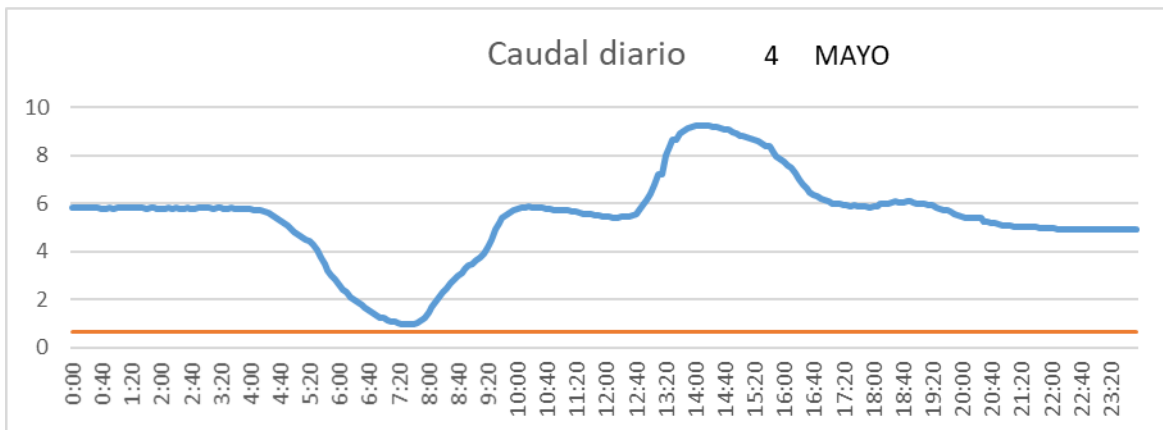
SAN LORENZO PARRILLA



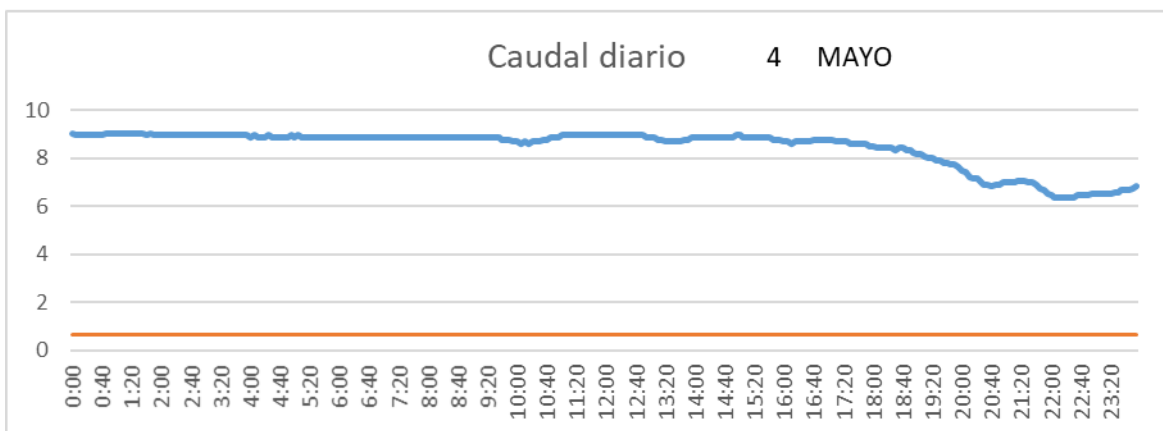
SALIDA TOBA



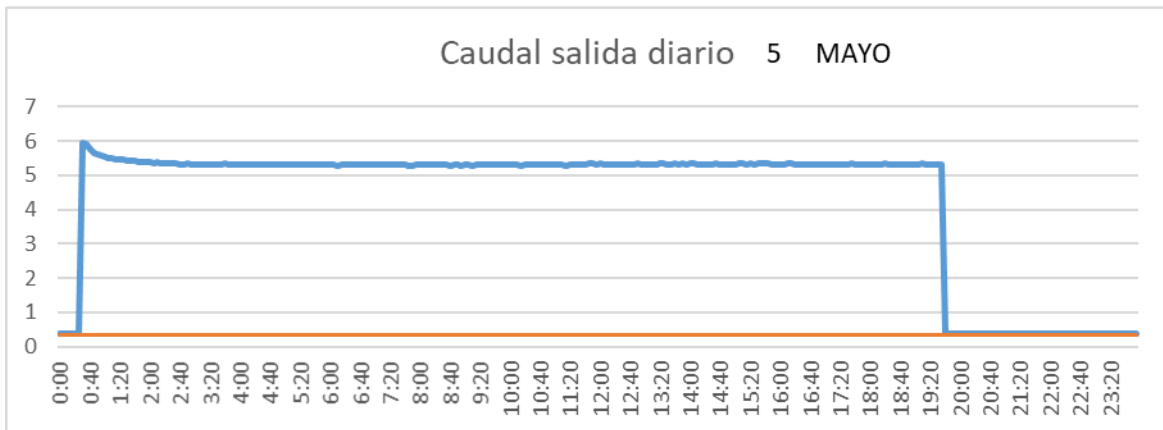
CUENCA



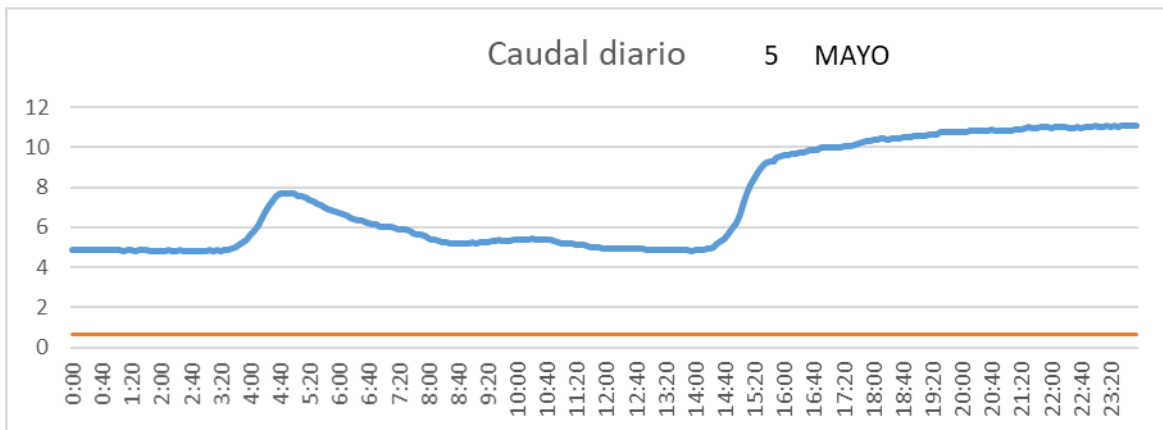
SAN LORENZO PARRILLA



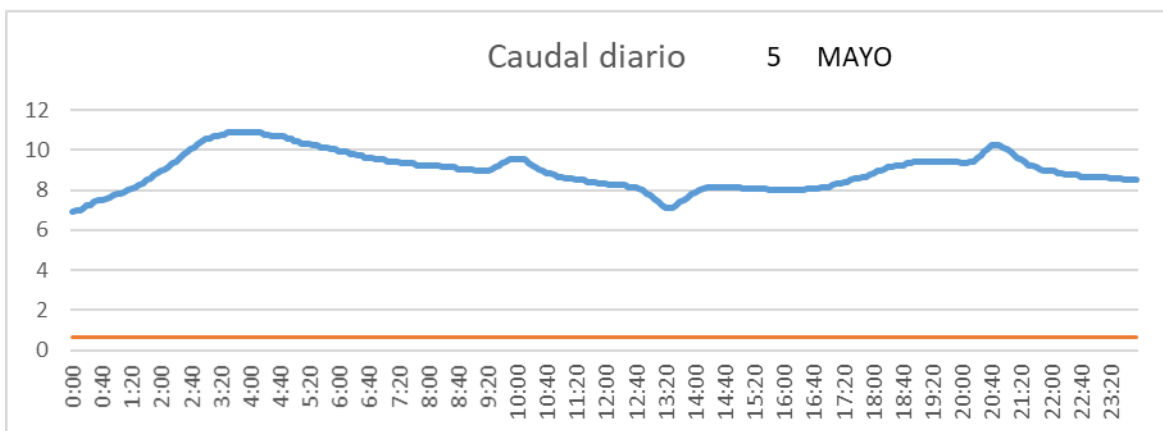
SALIDA TOBA



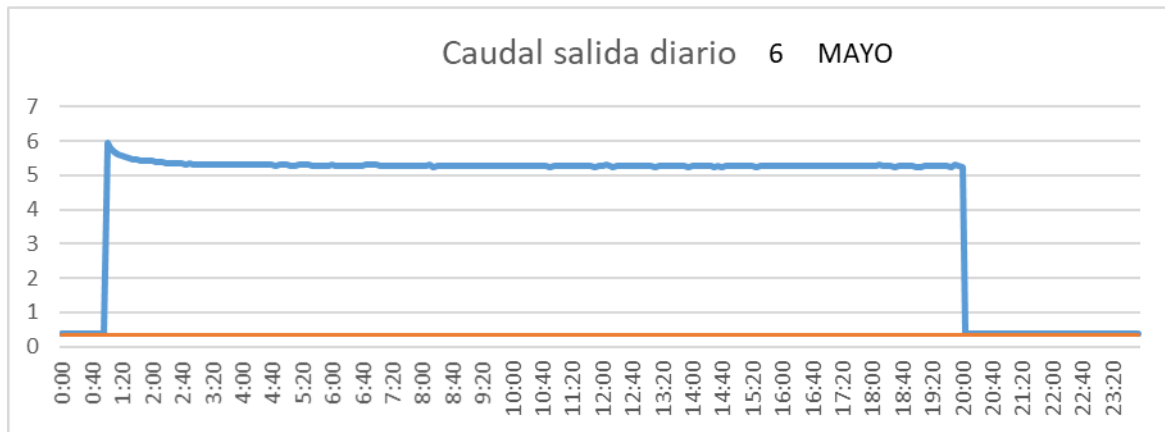
CUENCA



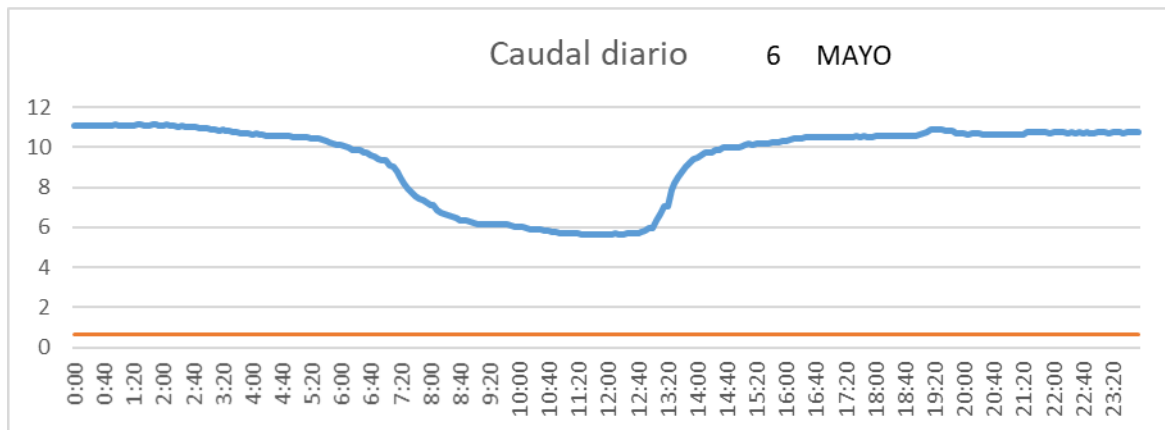
SAN LORENZO PARRILLA



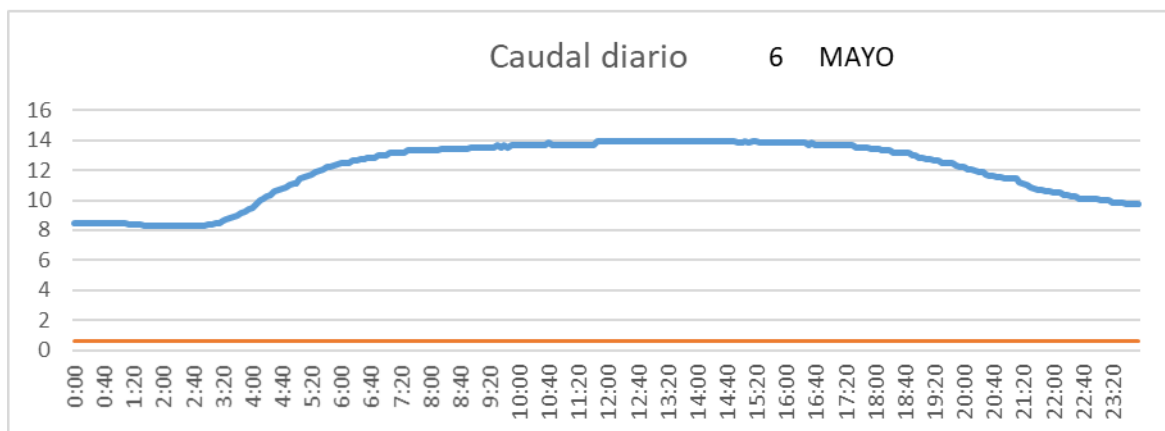
SALIDA TOBA



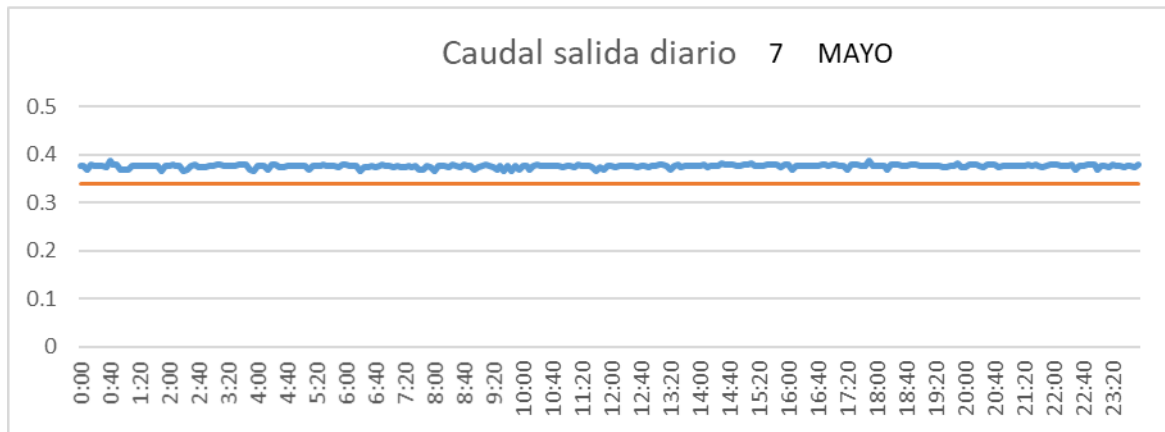
CUENCA



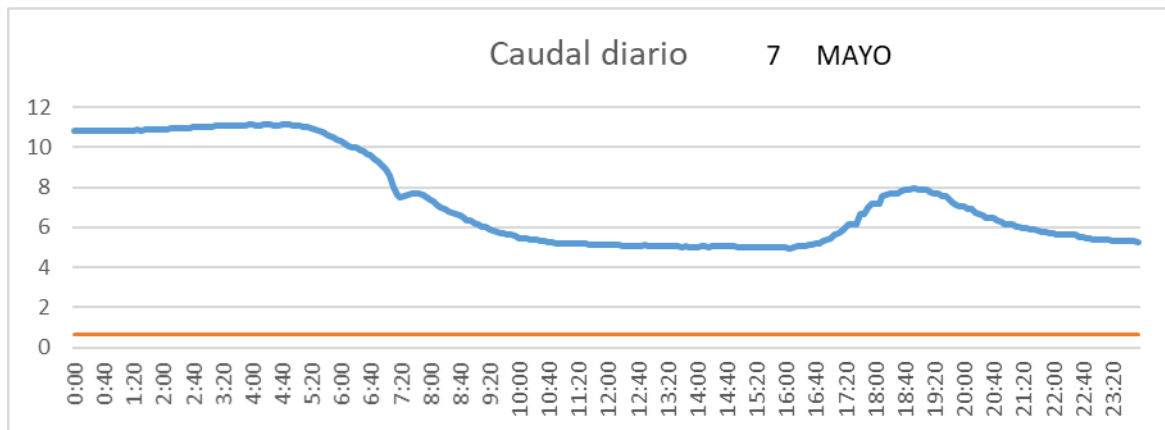
SAN LORENZO PARRILLA



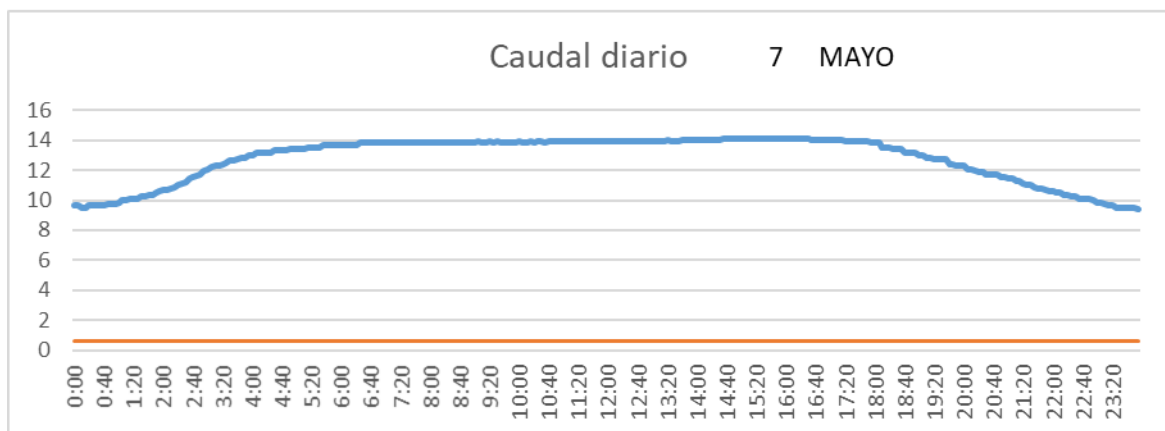
SALIDA TOBA



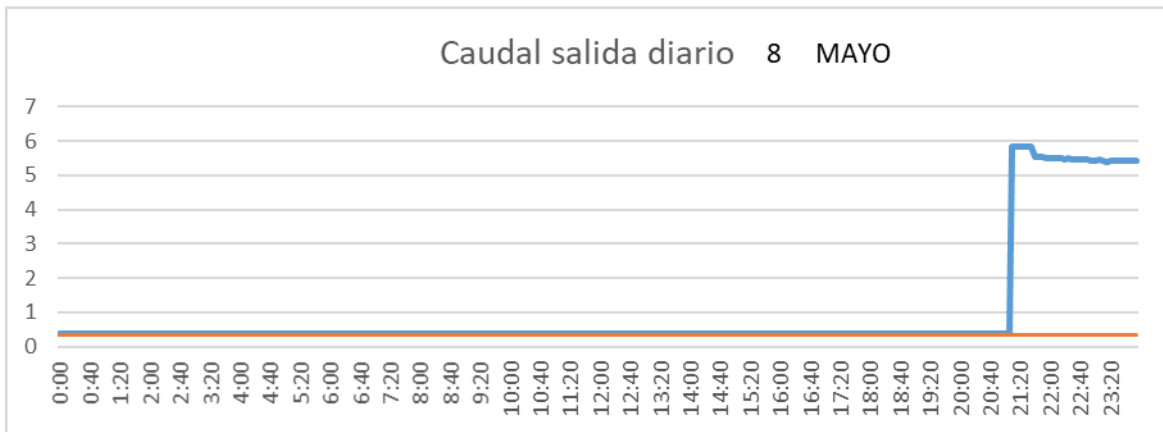
CUENCA



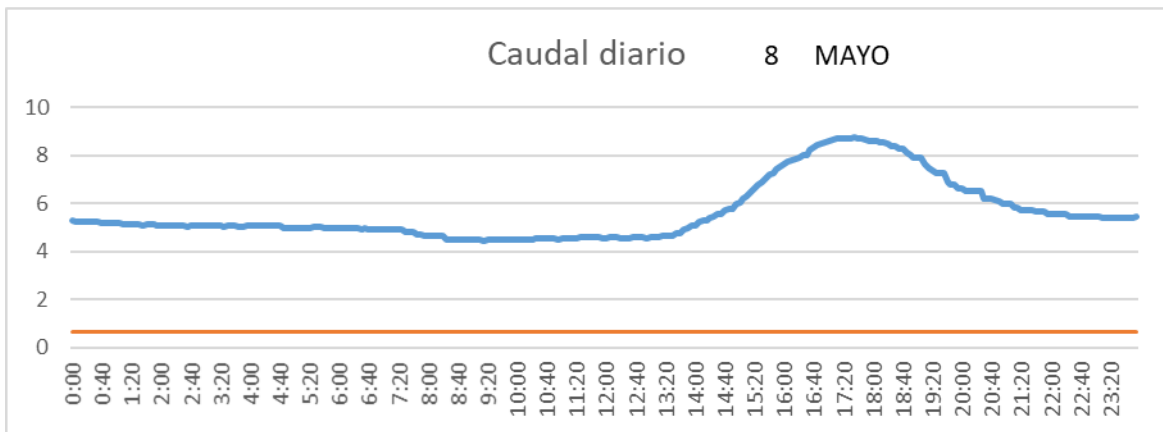
SAN LORENZO PARRILLA



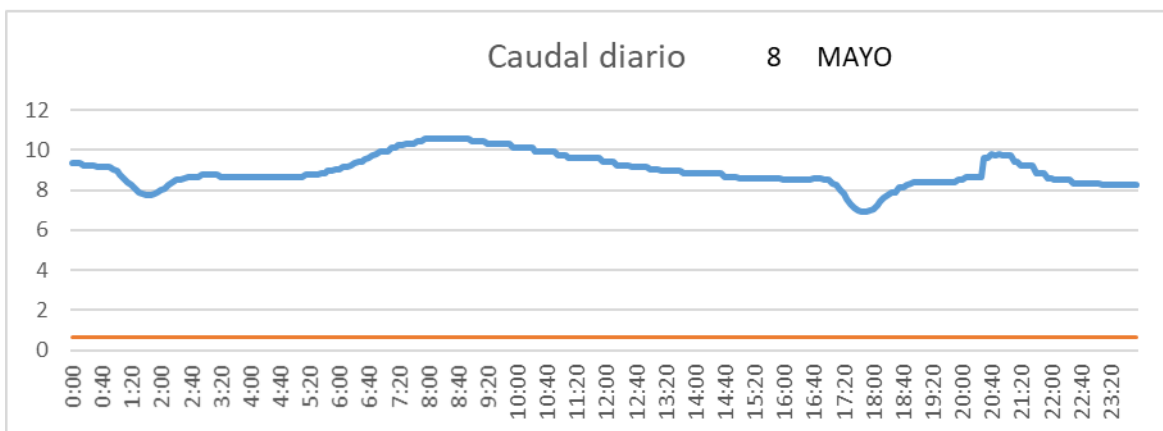
SALIDA TOBA



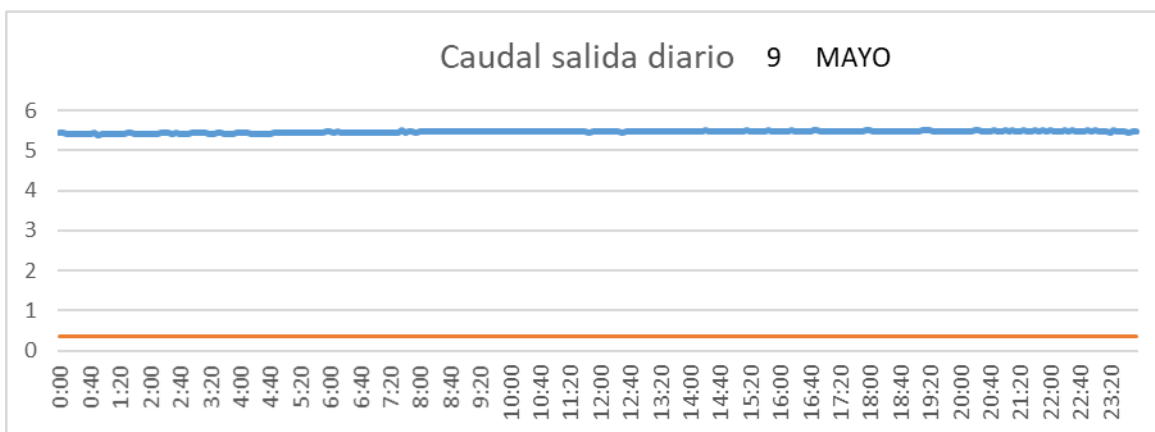
CUENCA



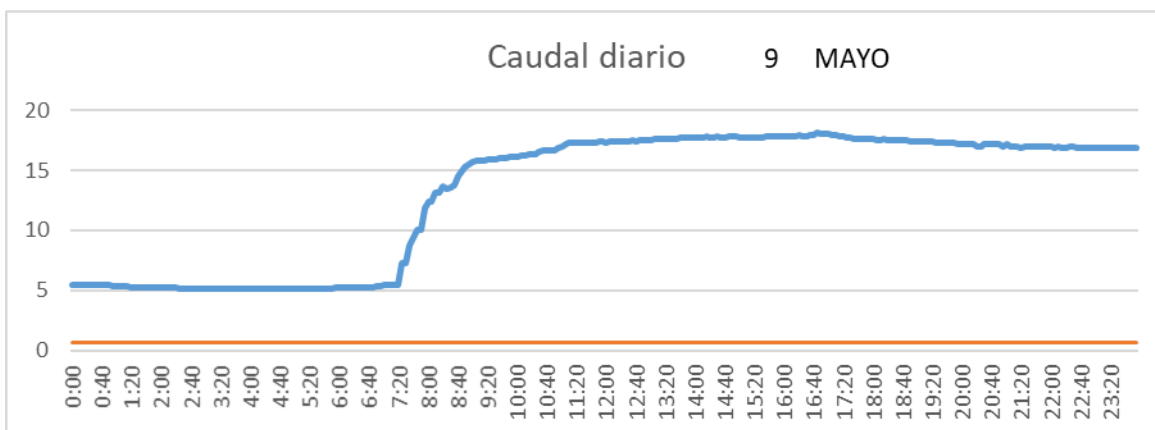
SAN LORENZO PARRILLA



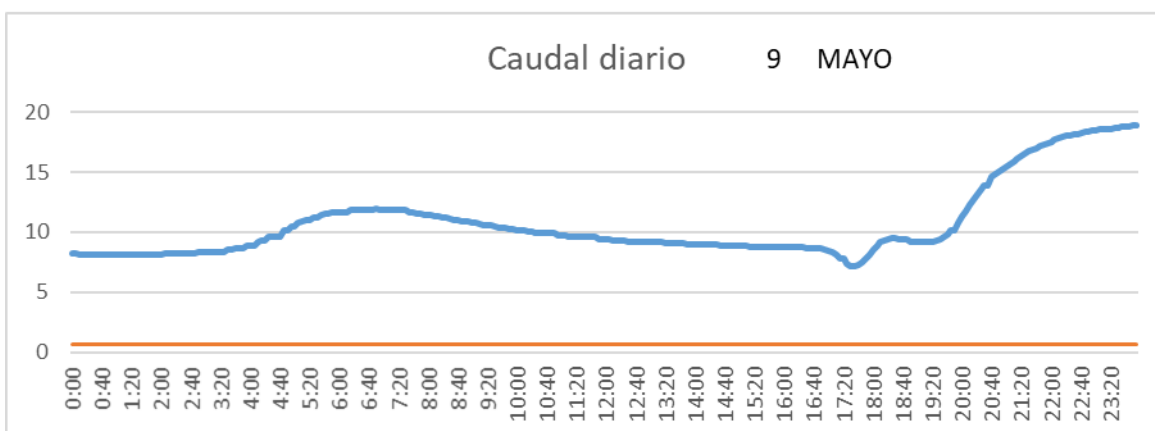
SALIDA TOBA



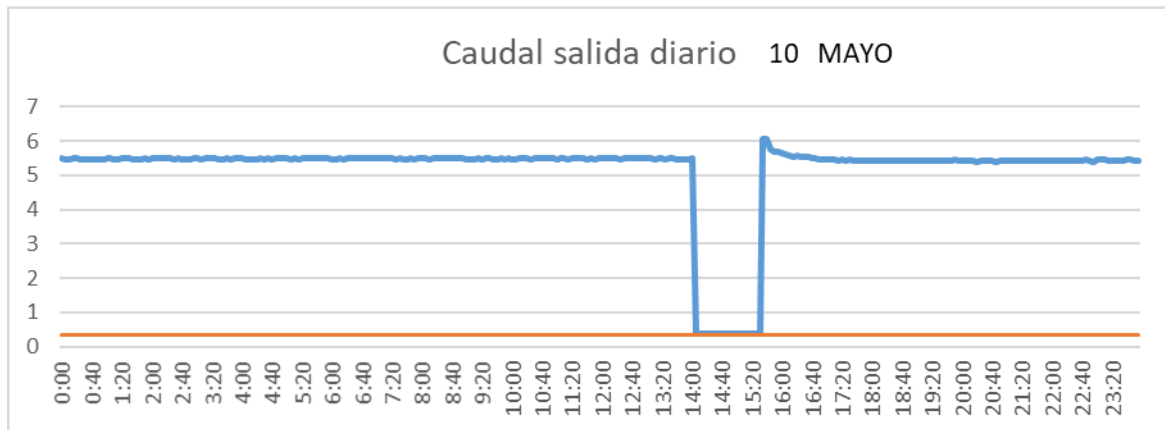
CUENCA



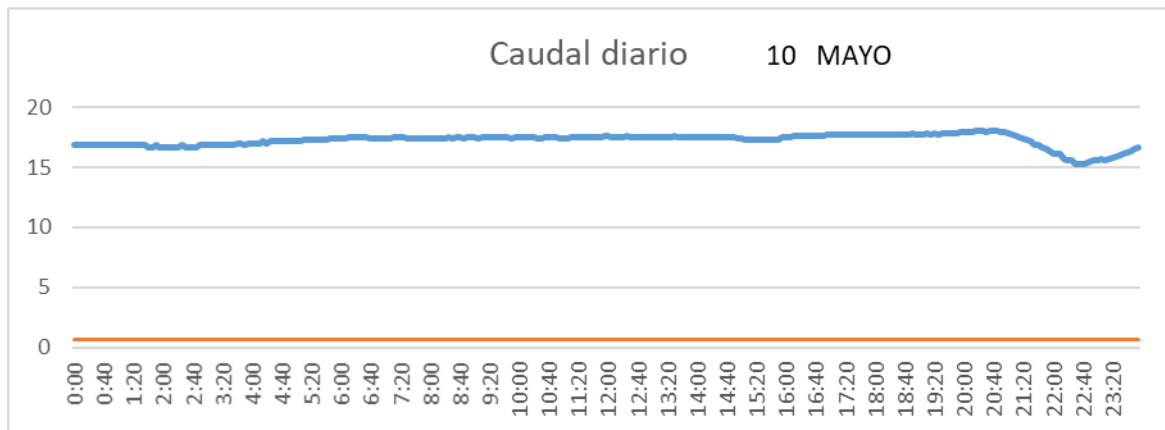
SAN LORENZO PARRILLA



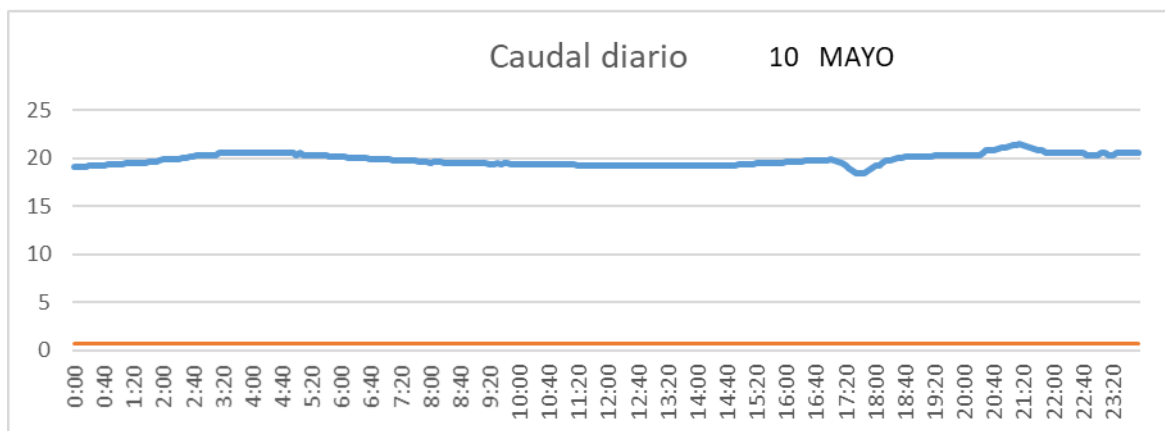
SALIDA TOBA



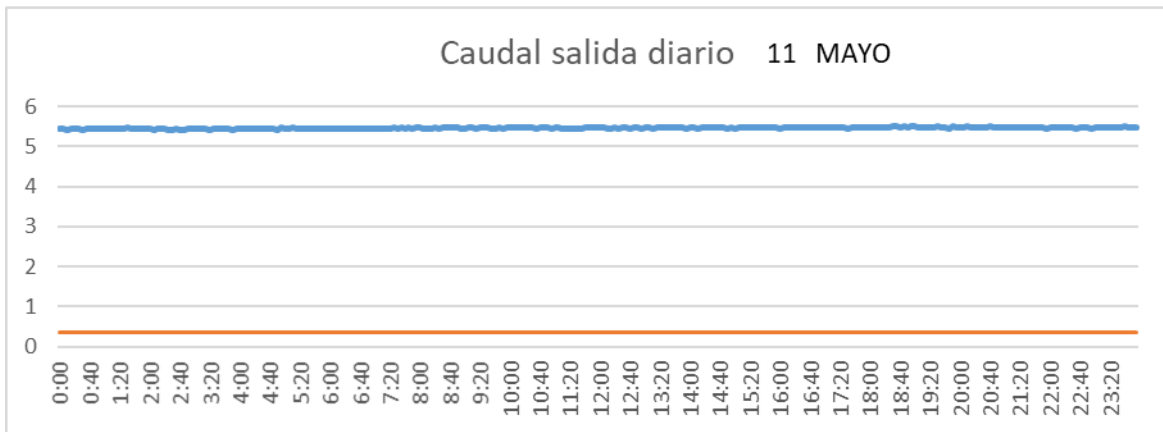
CUENCA



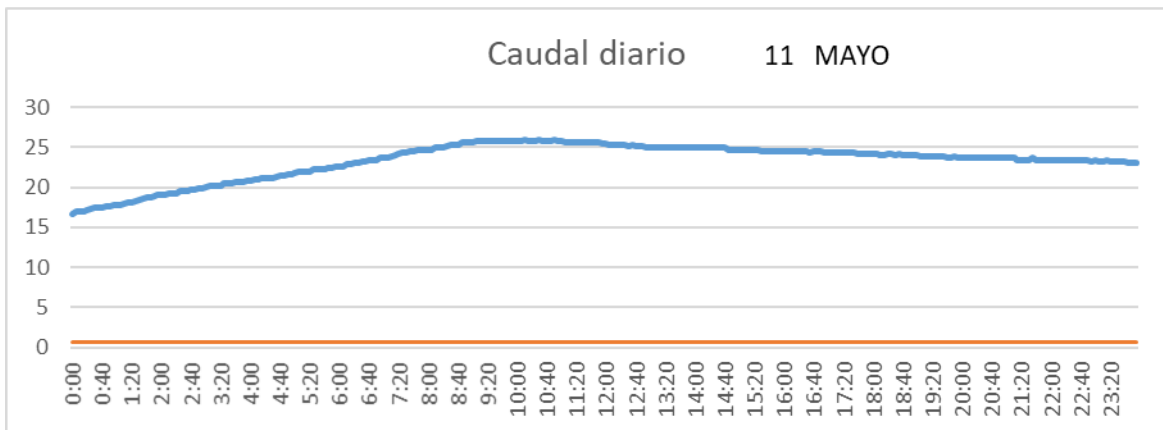
SAN LORENZO PARRILLA



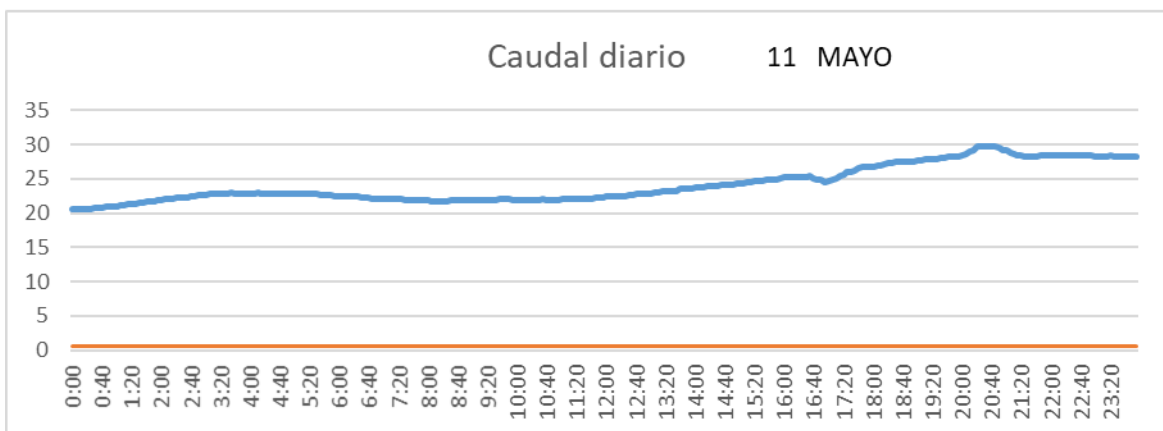
SALIDA TOBA



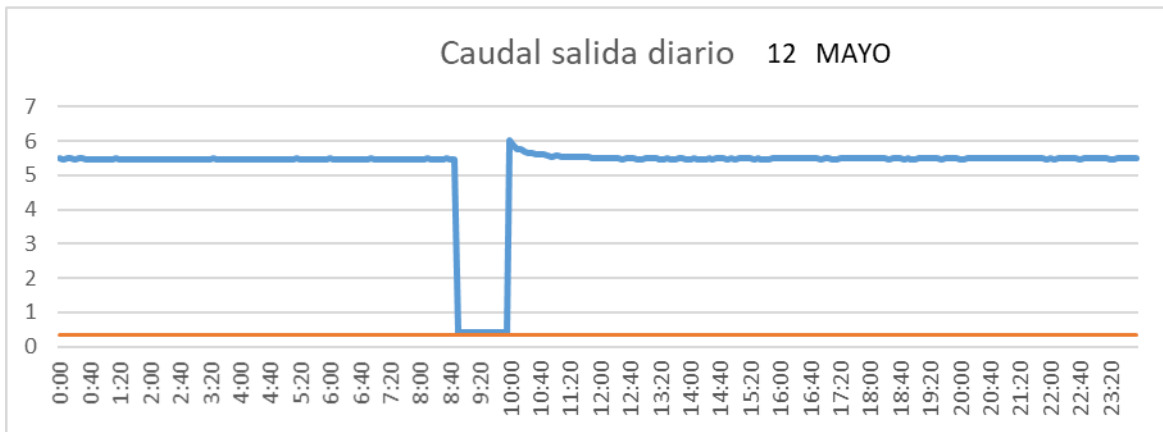
CUENCA



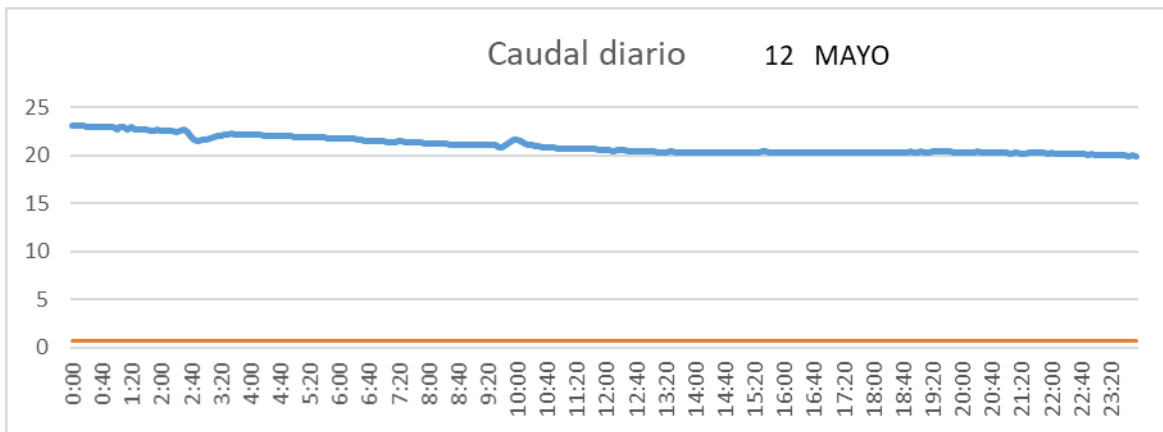
SAN LORENZO PARRILLA



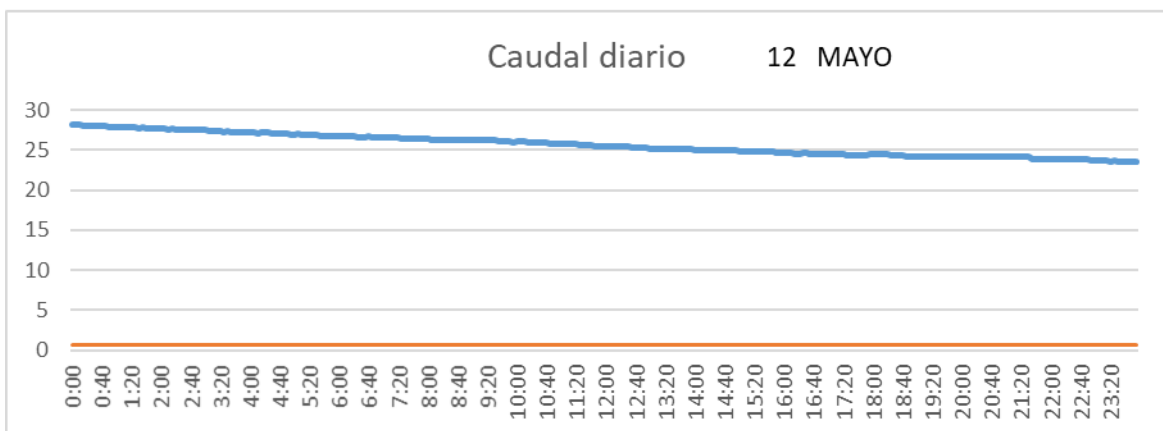
SALIDA TOBA



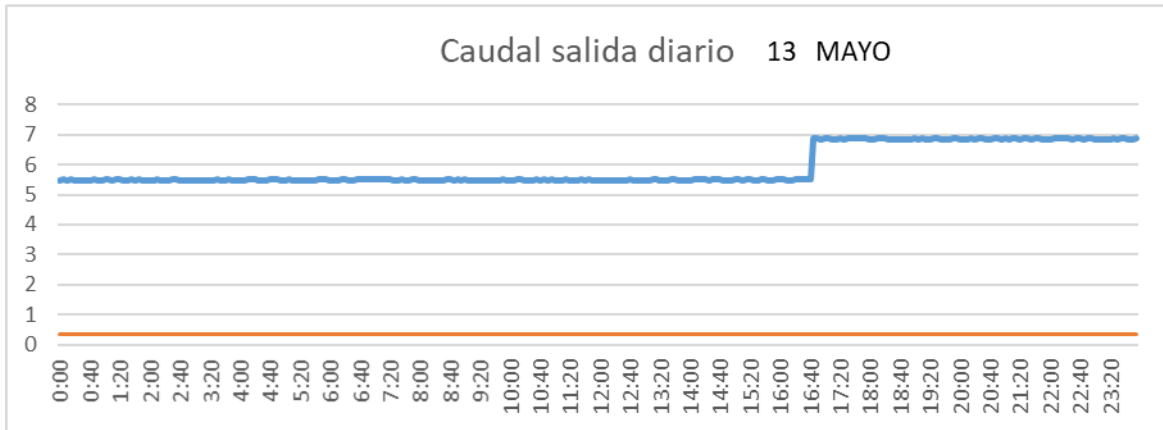
CUENCA



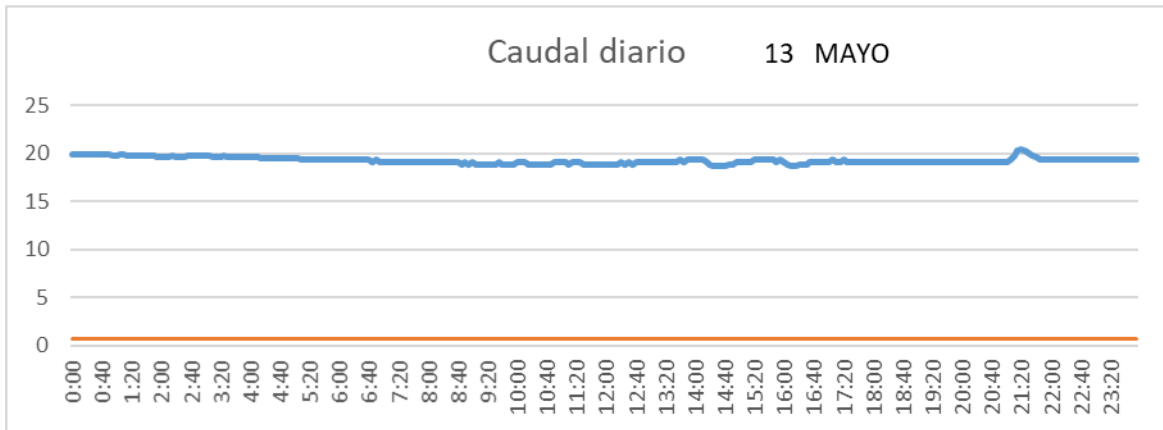
SAN LORENZO PARRILLA



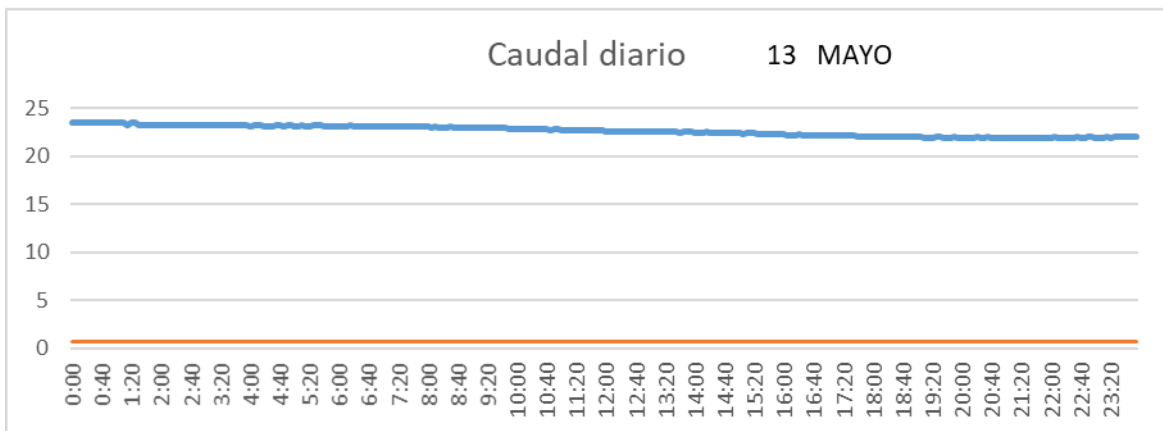
SALIDA TOBA



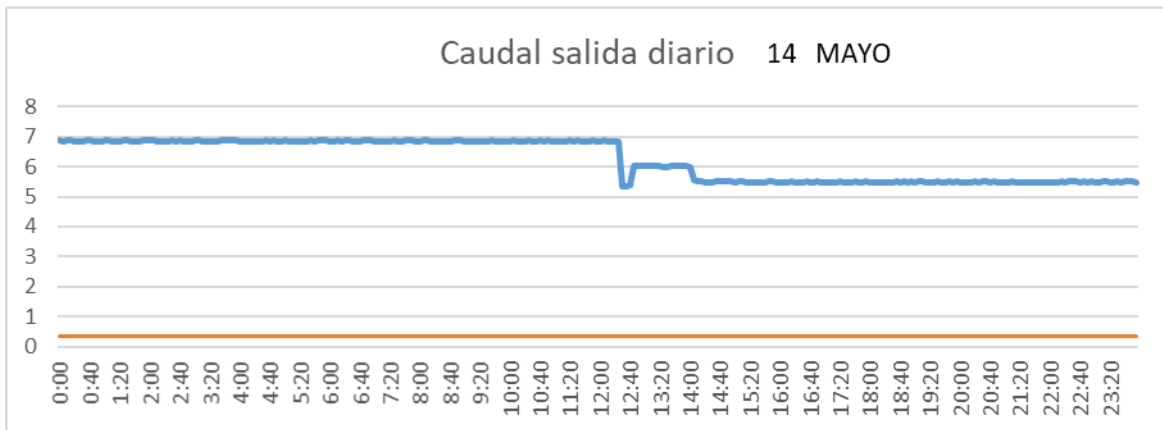
CUENCA



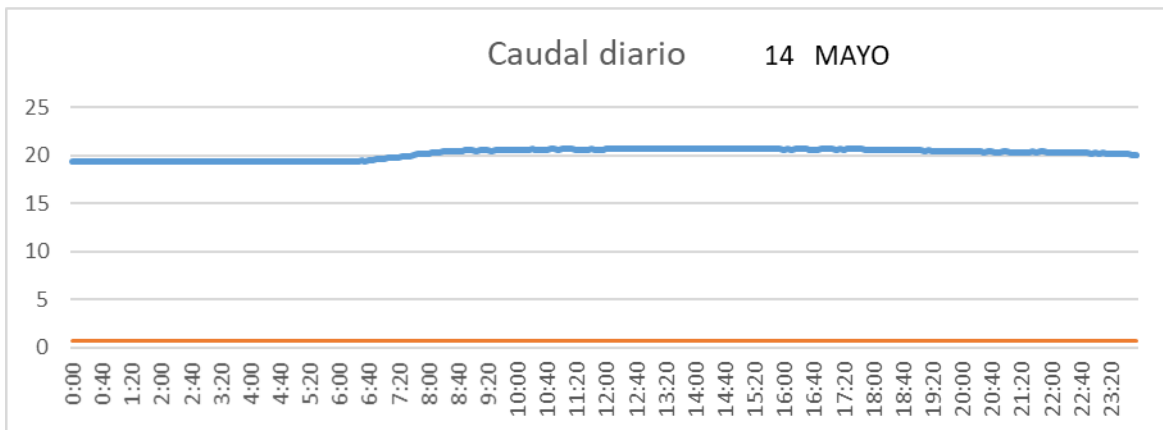
SAN LORENZO PARRILLA



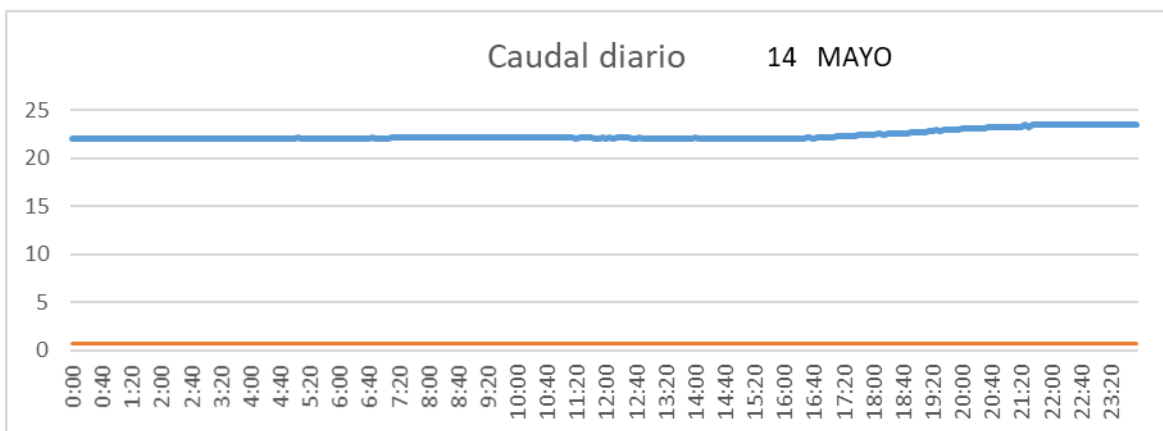
SALIDA TOBA



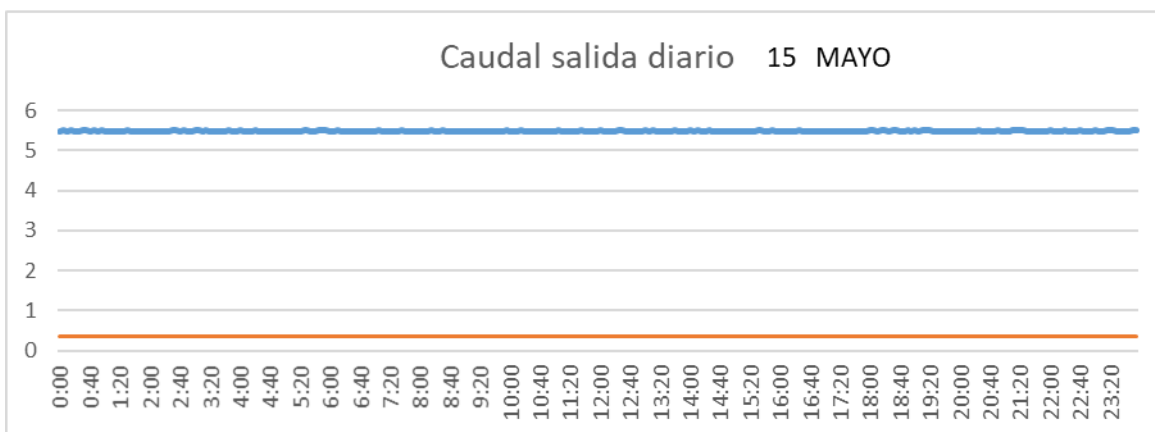
CUENCA



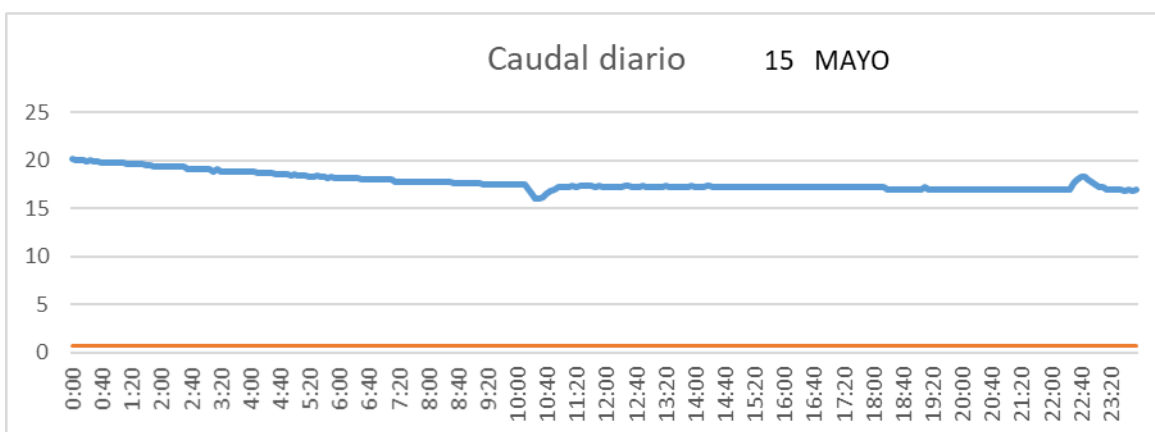
SAN LORENZO PARRILLA



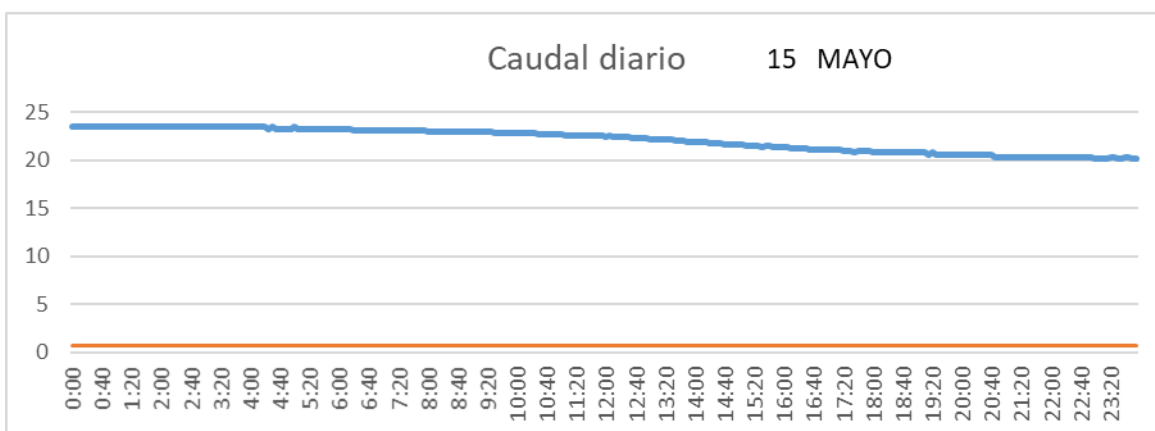
SALIDA TOBA



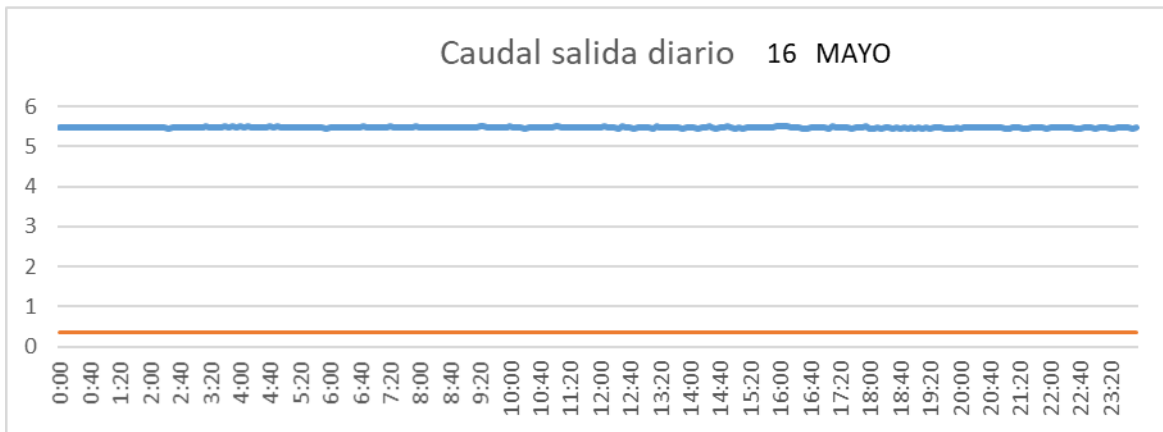
CUENCA



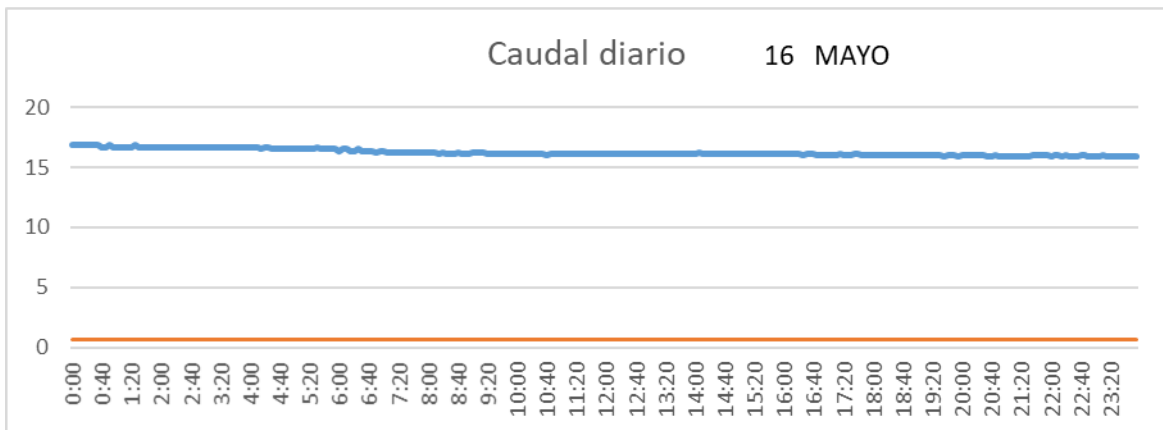
SAN LORENZO PARRILLA



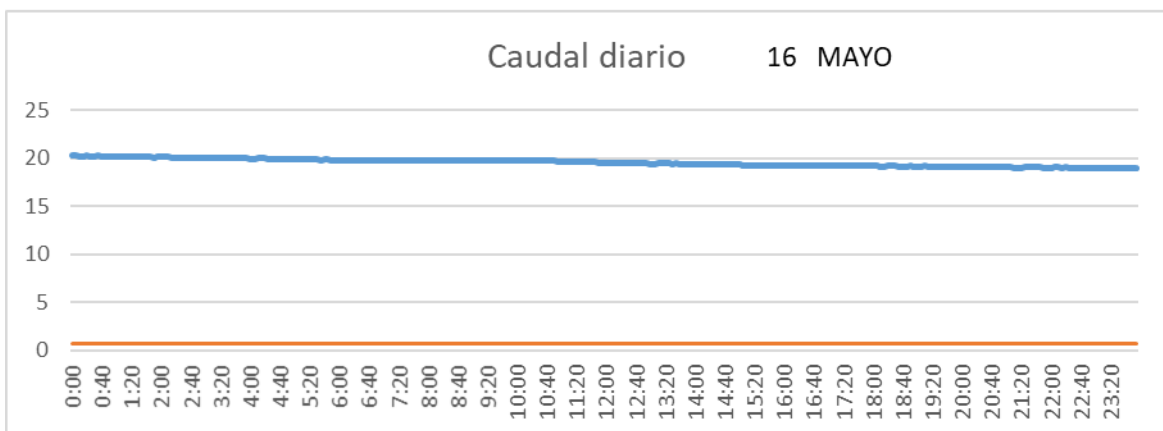
SALIDA TOBA



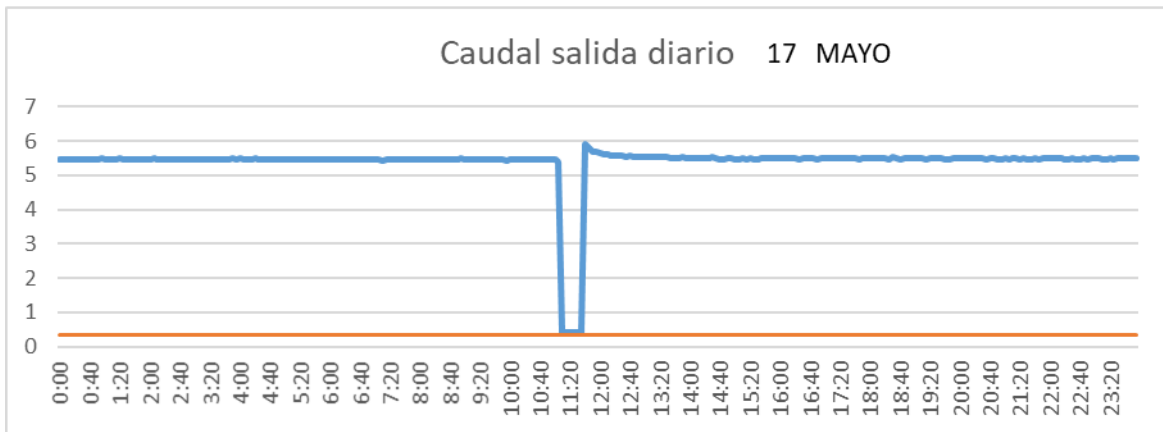
CUENCA



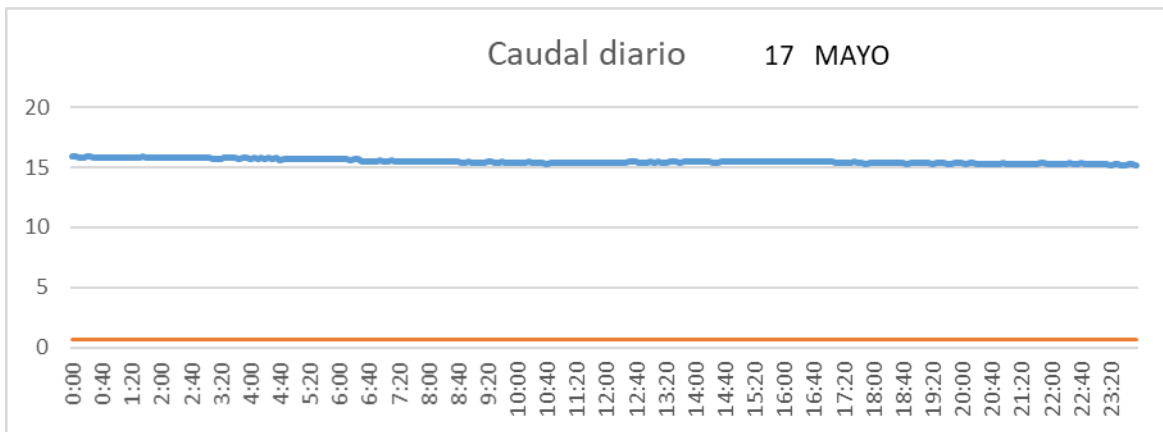
SAN LORENZO PARRILLA



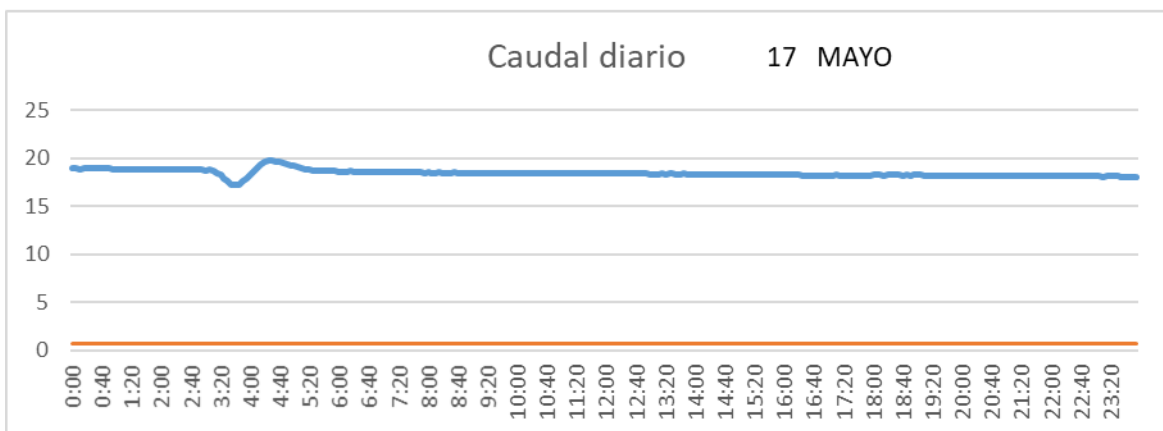
SALIDA TOBA



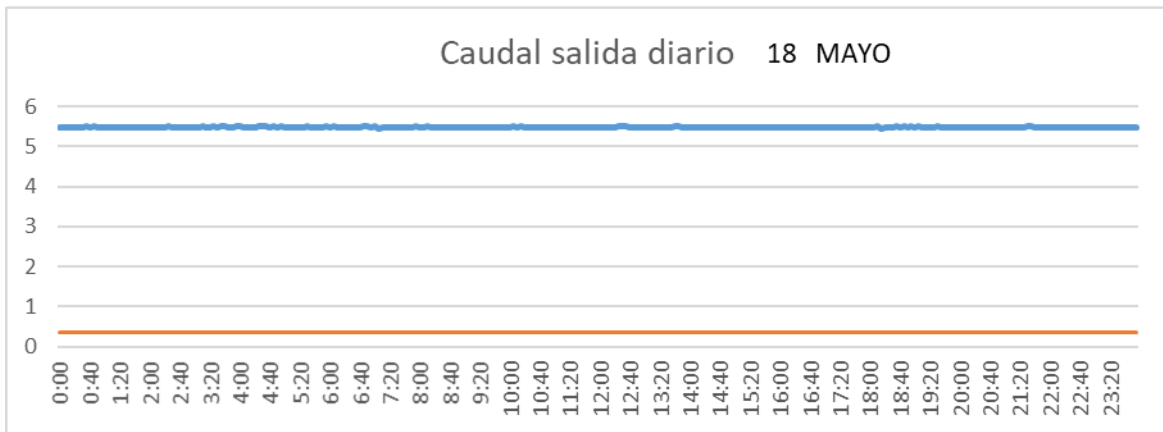
CUENCA



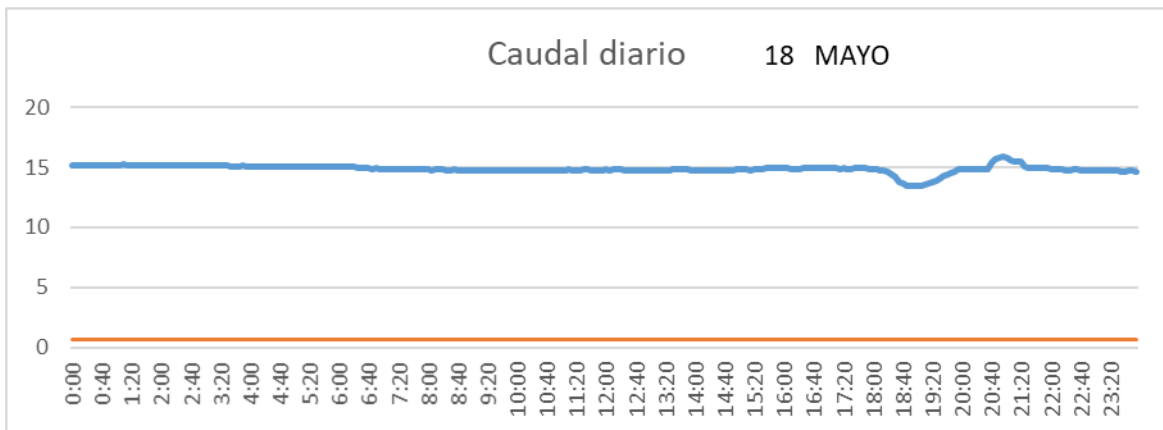
SAN LORENZO PARRILLA



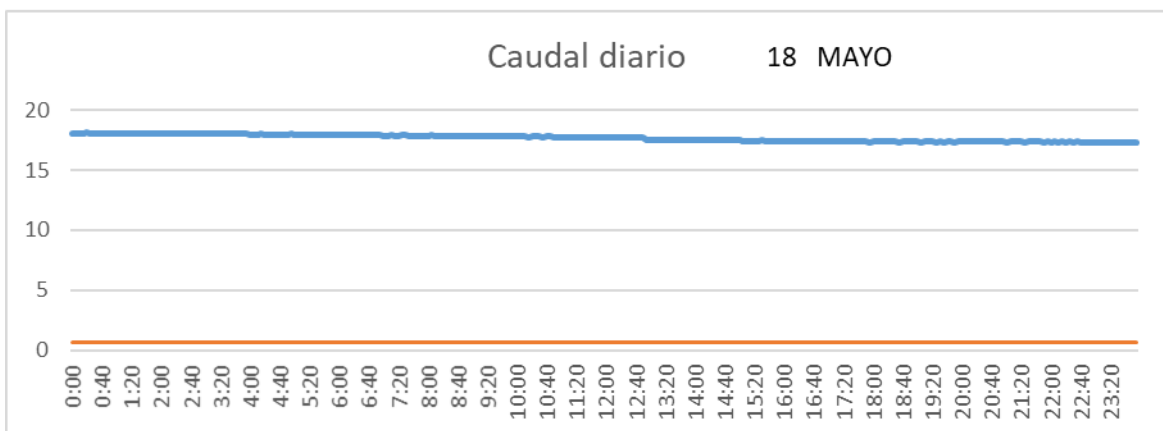
SALIDA TOBA



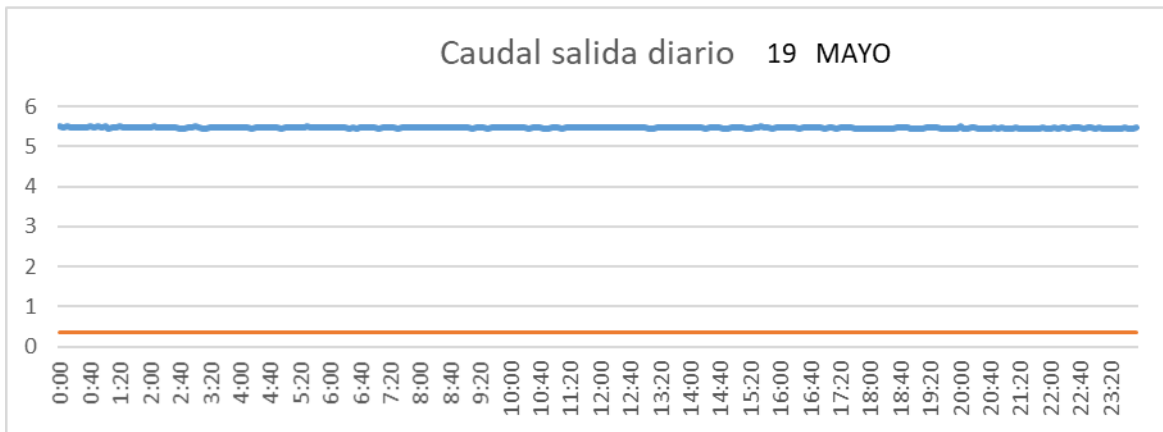
CUENCA



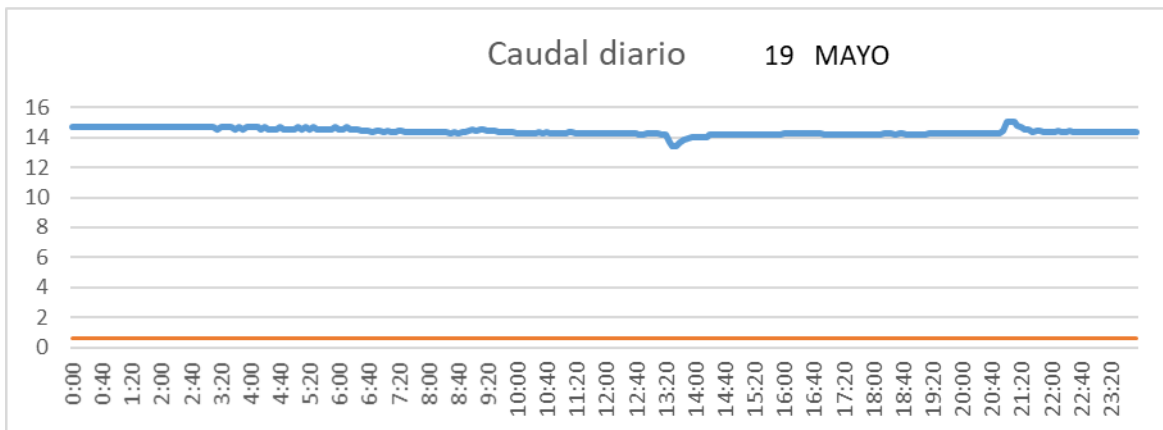
SAN LORENZO PARRILLA



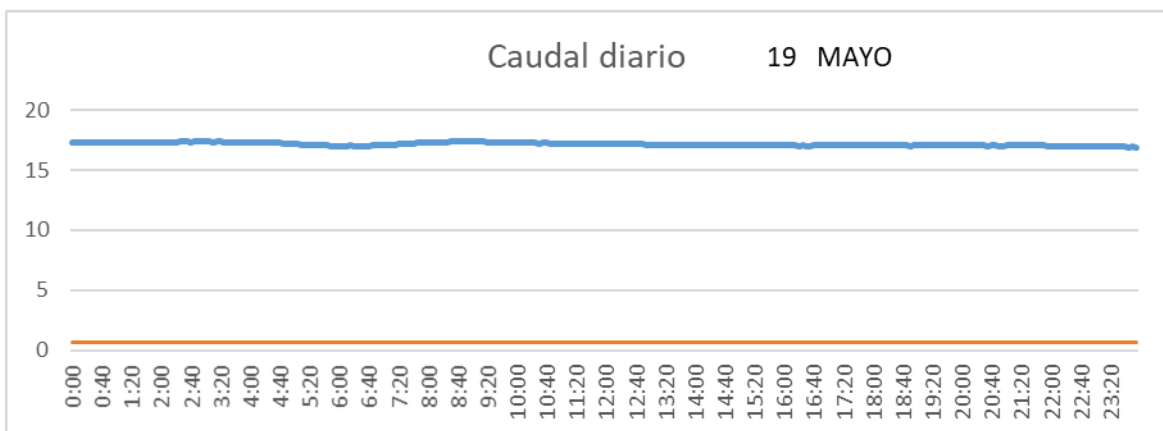
SALIDA TOBA



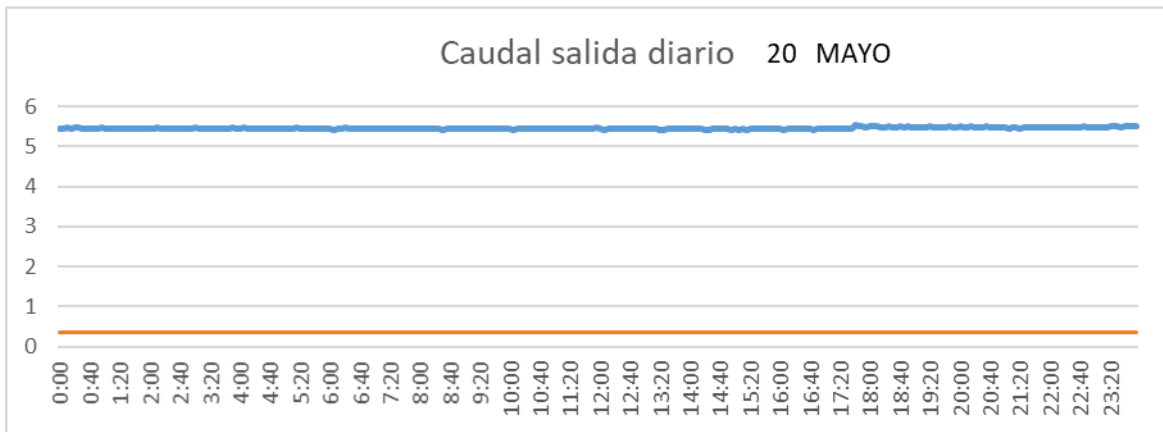
CUENCA



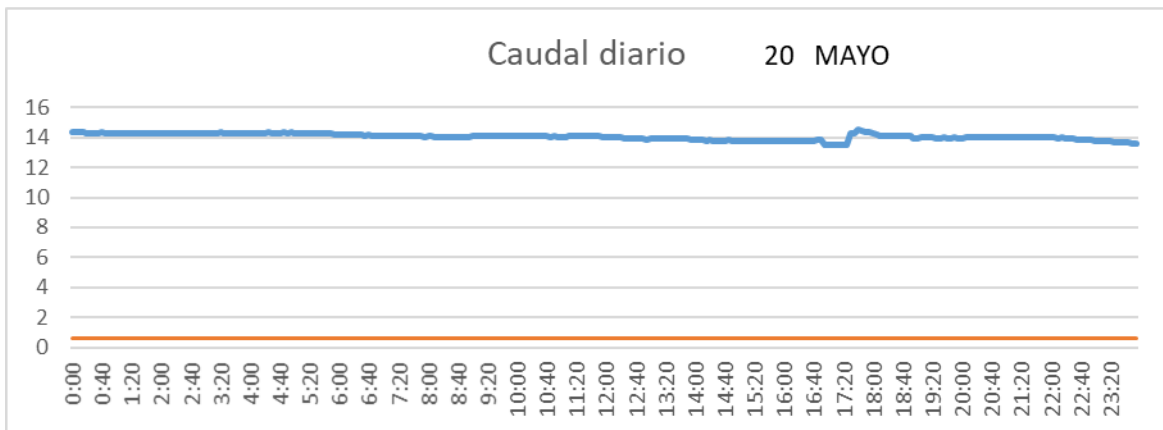
SAN LORENZO PARRILLA



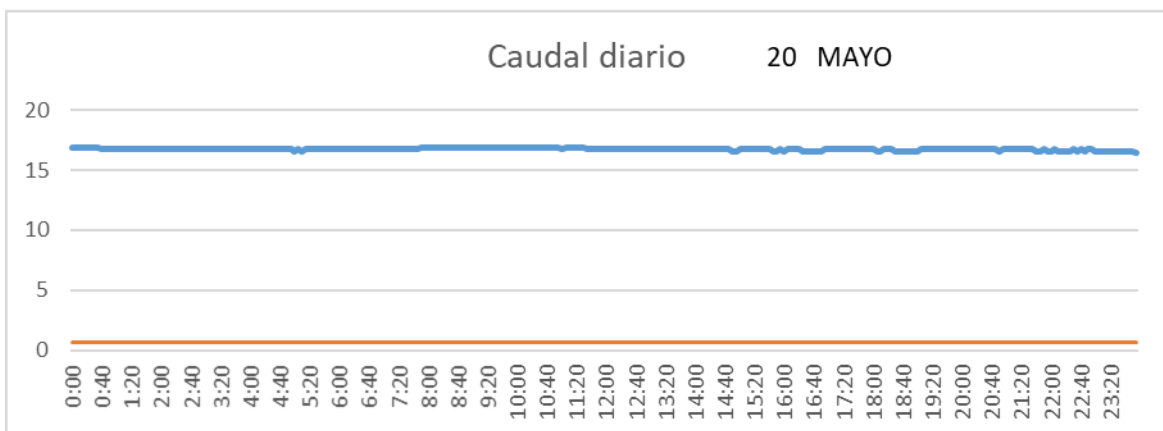
SALIDA TOBA



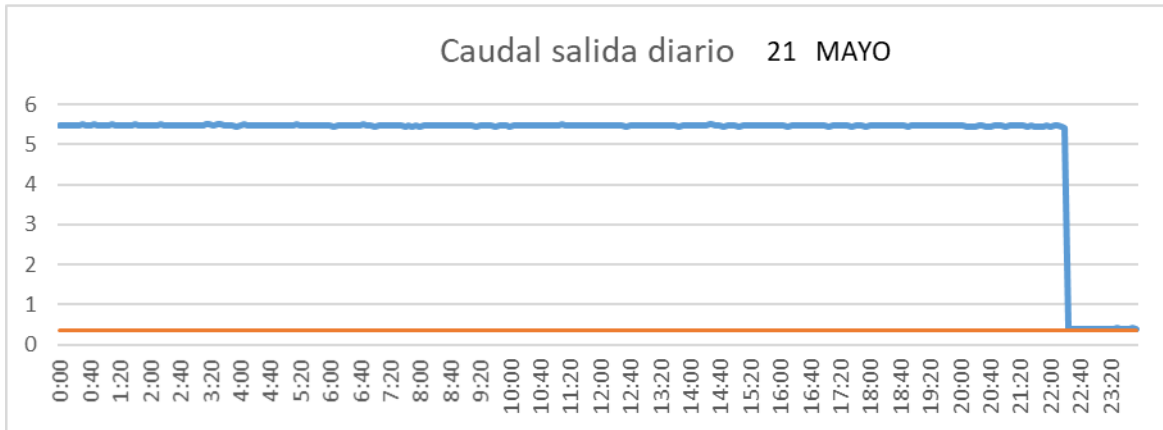
CUENCA



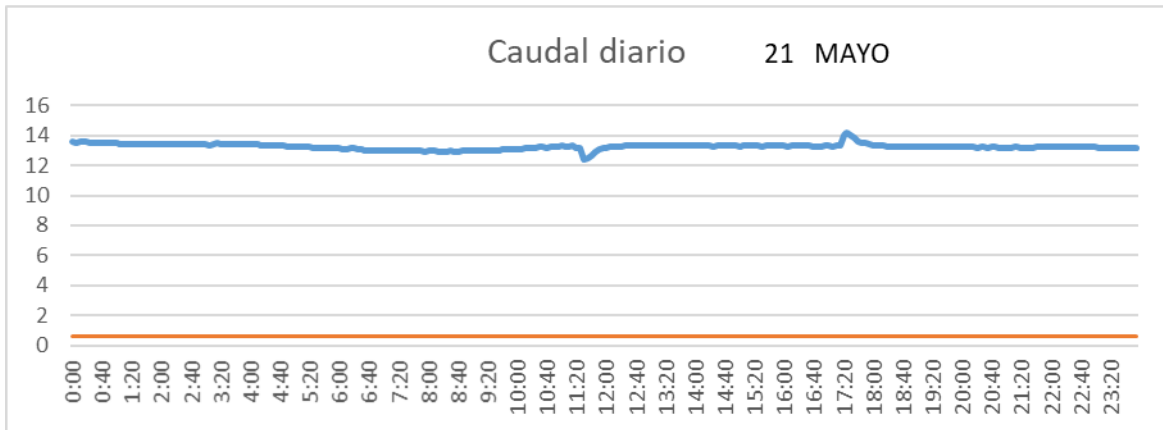
SAN LORENZO PARRILLA



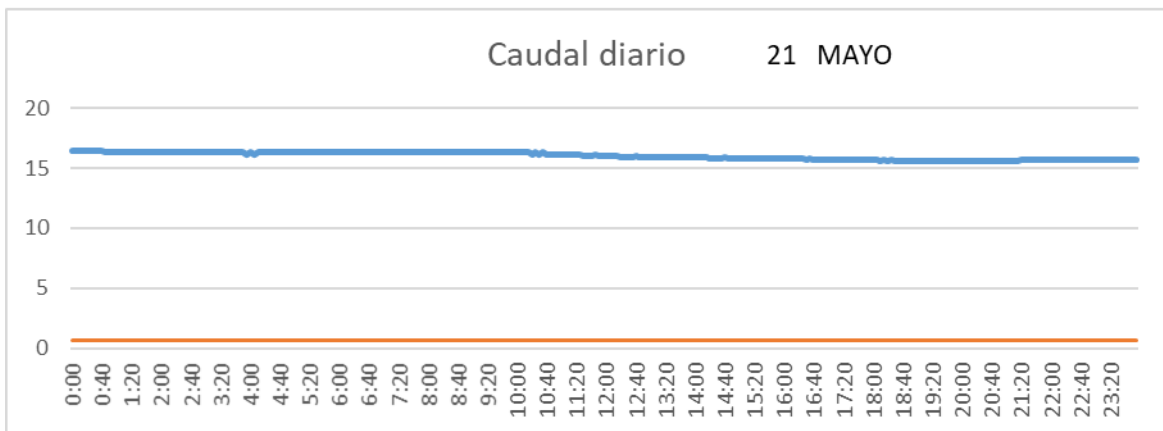
SALIDA TOBA



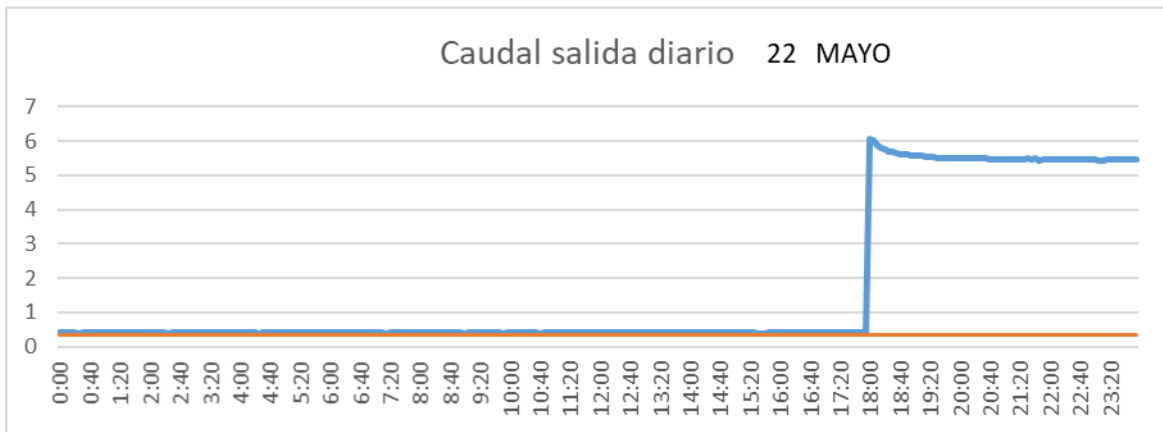
CUENCA



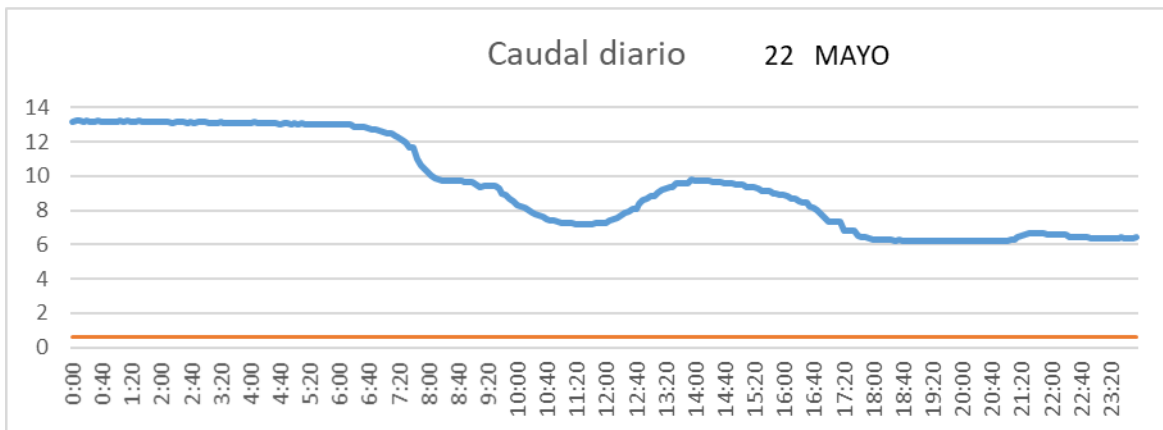
SAN LORENZO PARRILLA



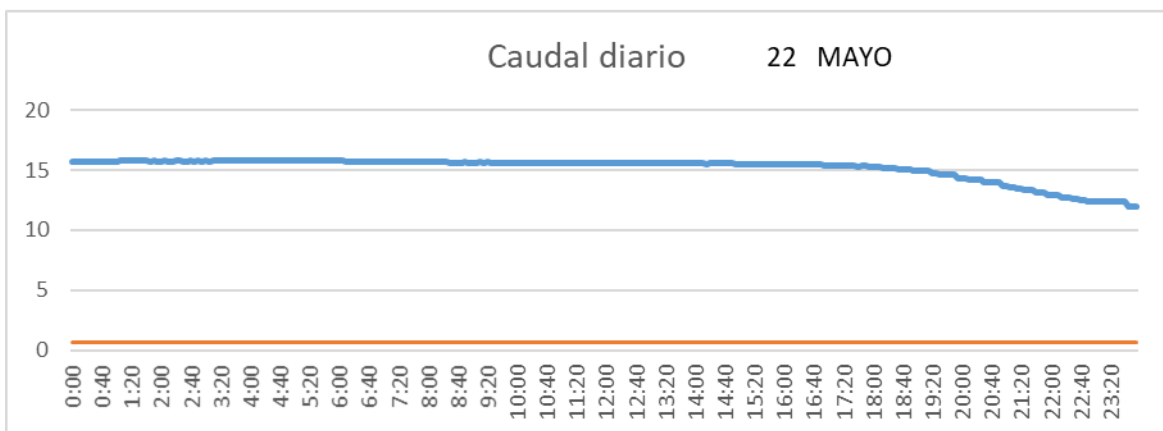
SALIDA TOBA



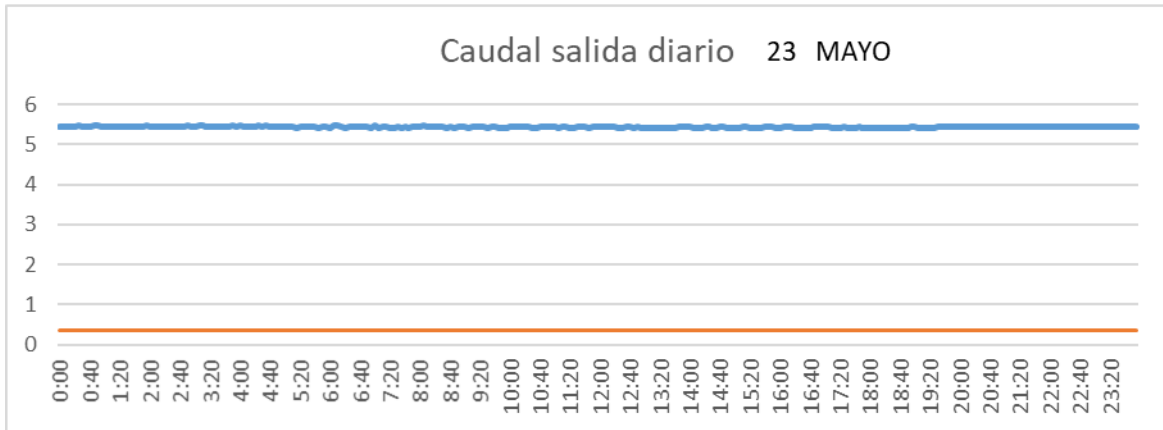
CUENCA



SAN LORENZO PARRILLA



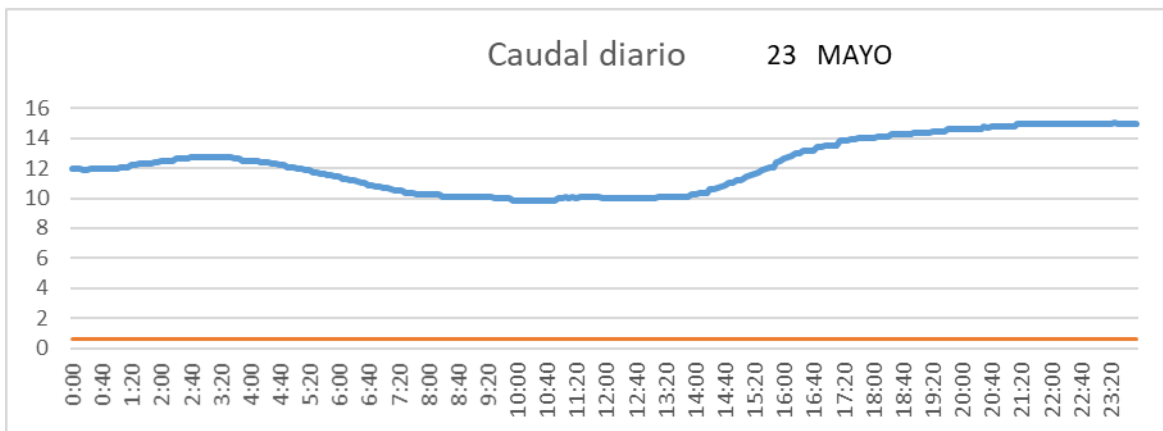
SALIDA TOBA



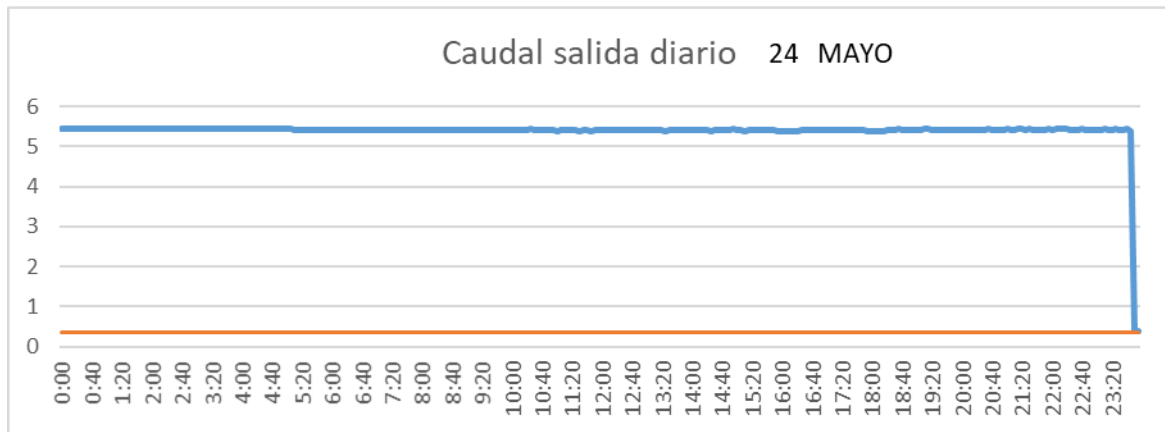
CUENCA



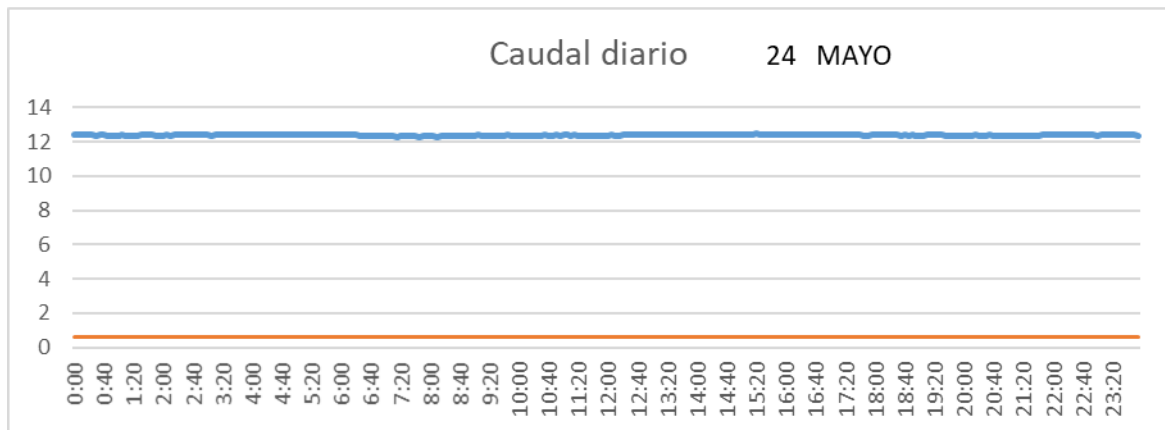
SAN LORENZO PARRILLA



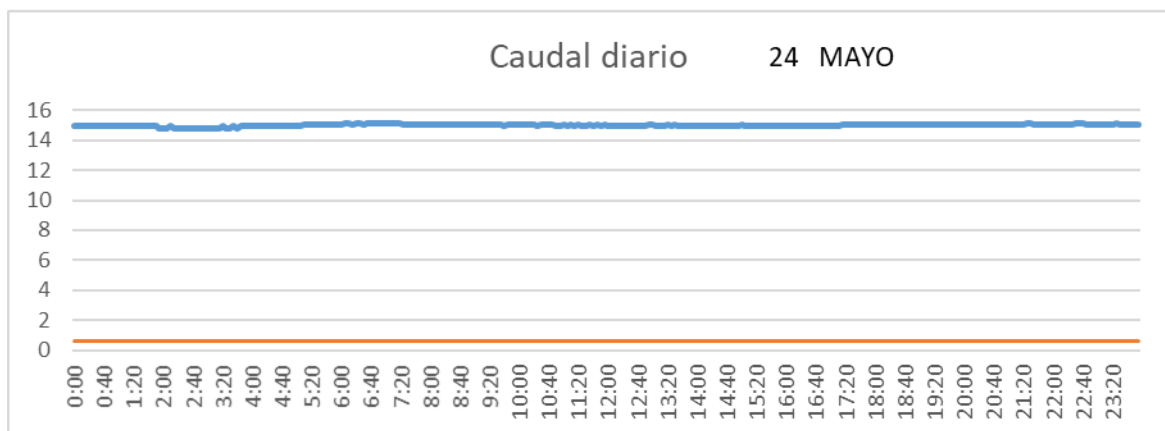
SALIDA TOBA



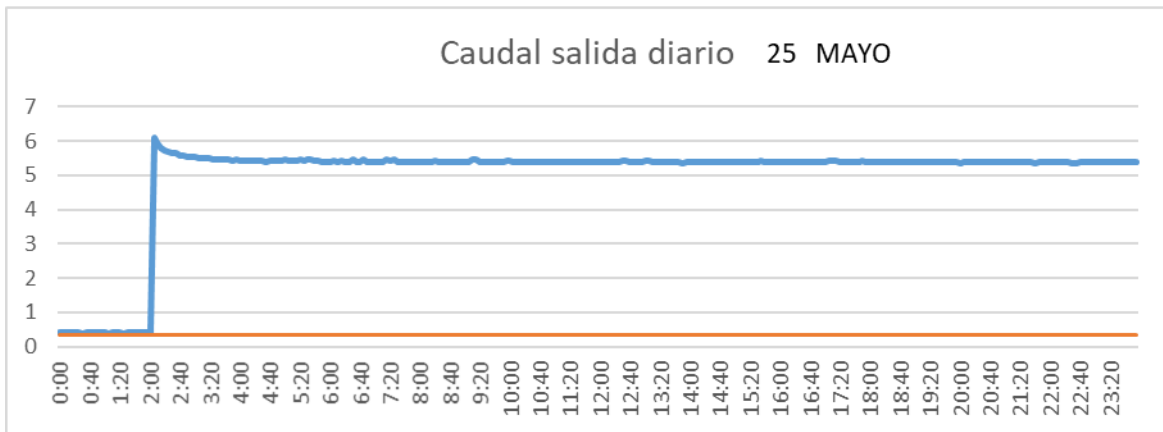
CUENCA



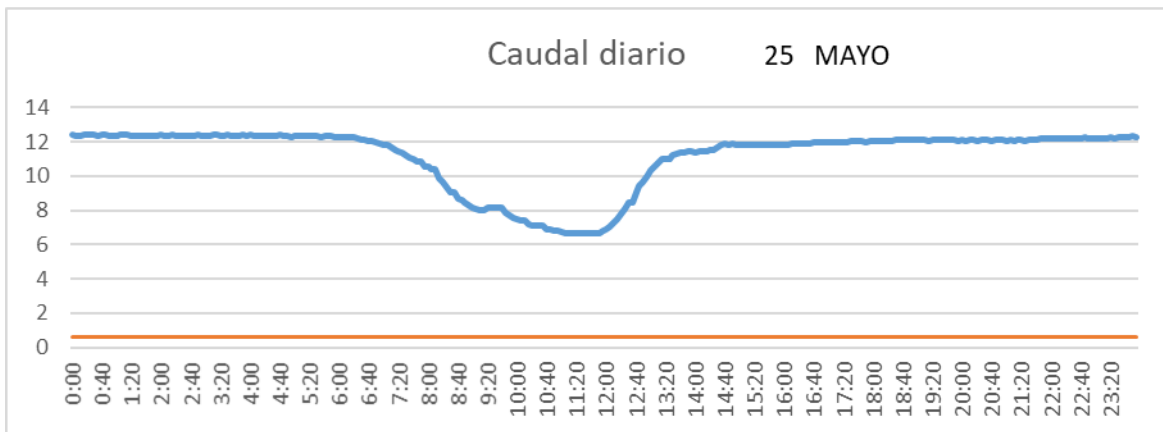
SAN LORENZO PARRILLA



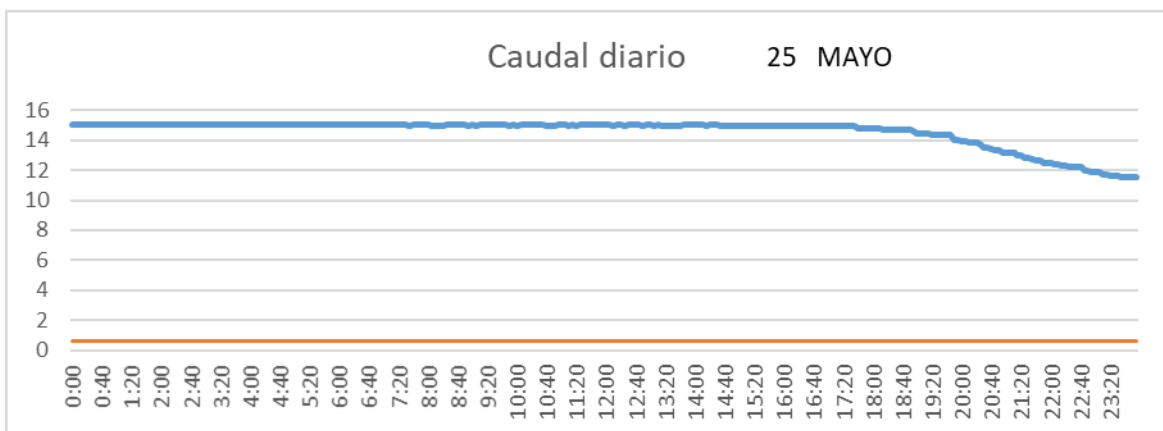
SALIDA TOBA



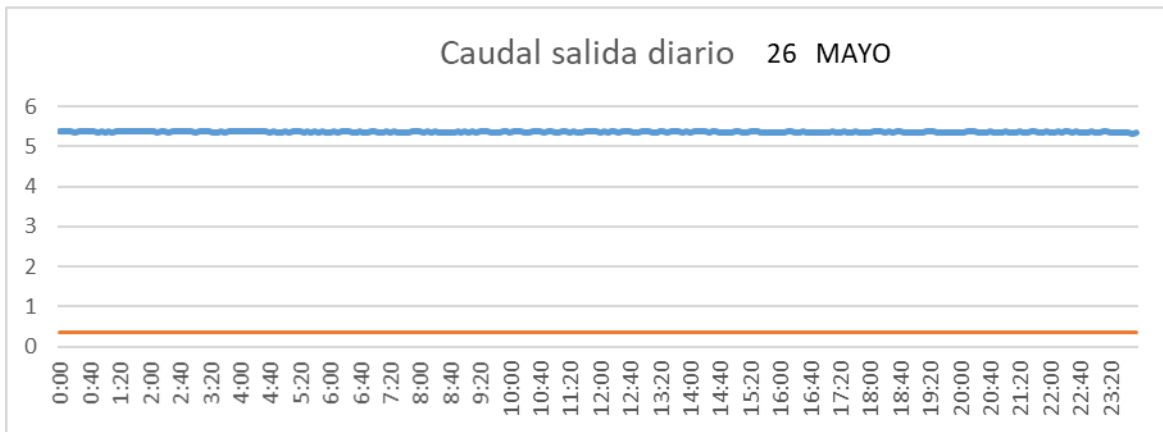
CUENCA



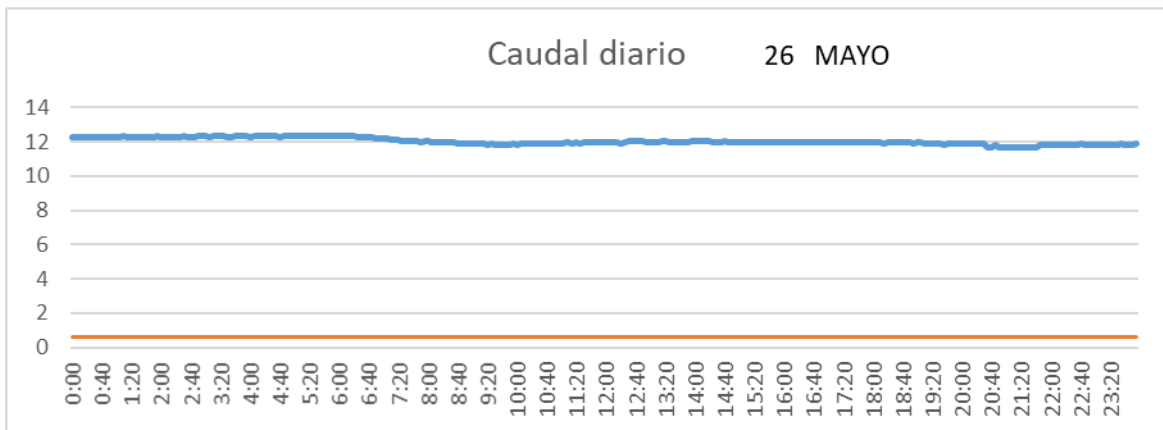
SAN LORENZO PARRILLA



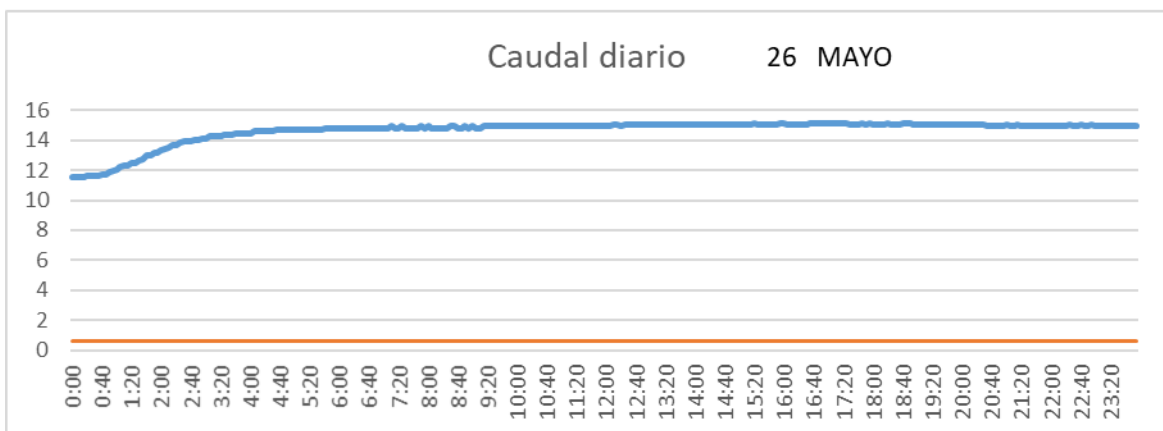
SALIDA TOBA



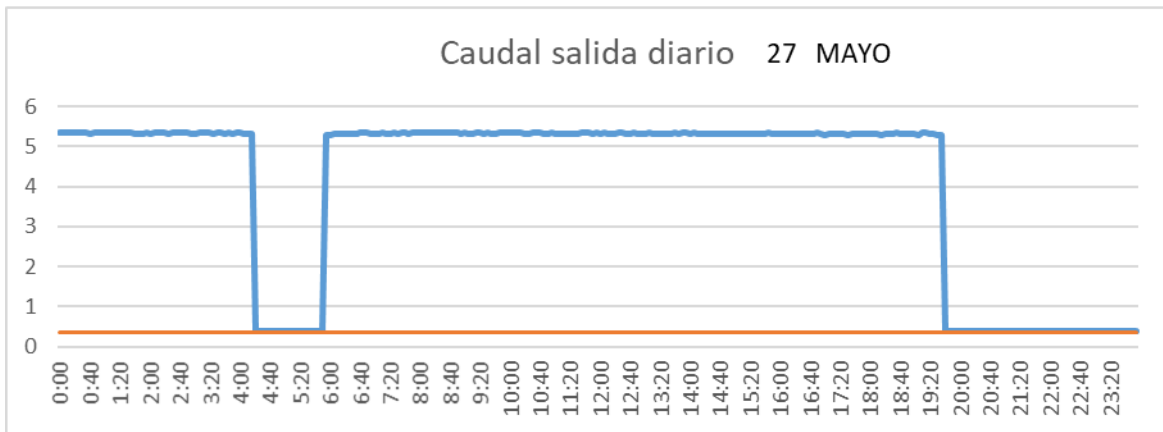
CUENCA



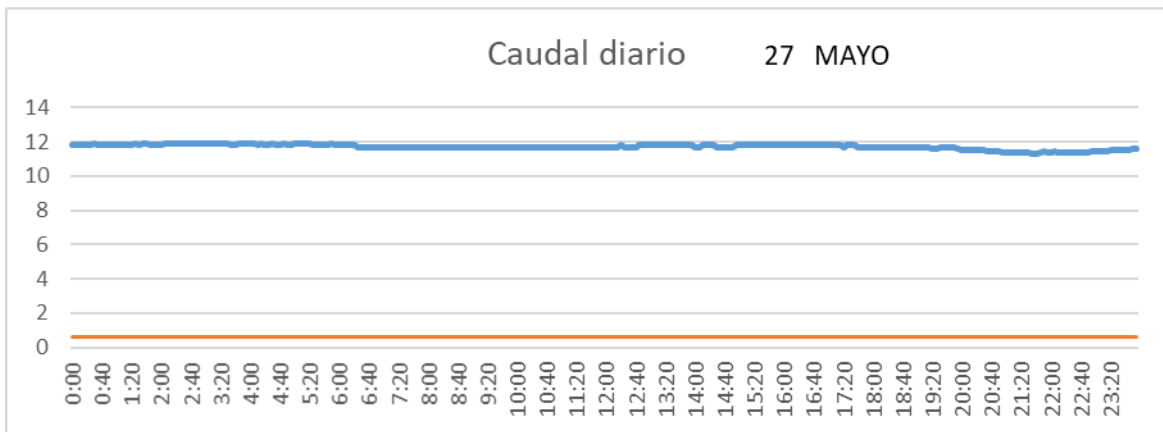
SAN LORENZO PARRILLA



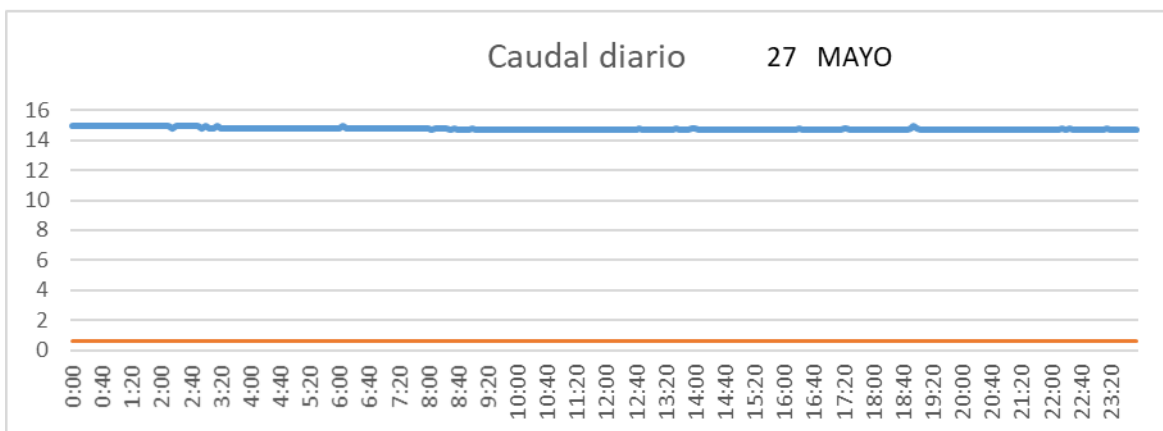
SALIDA TOBA



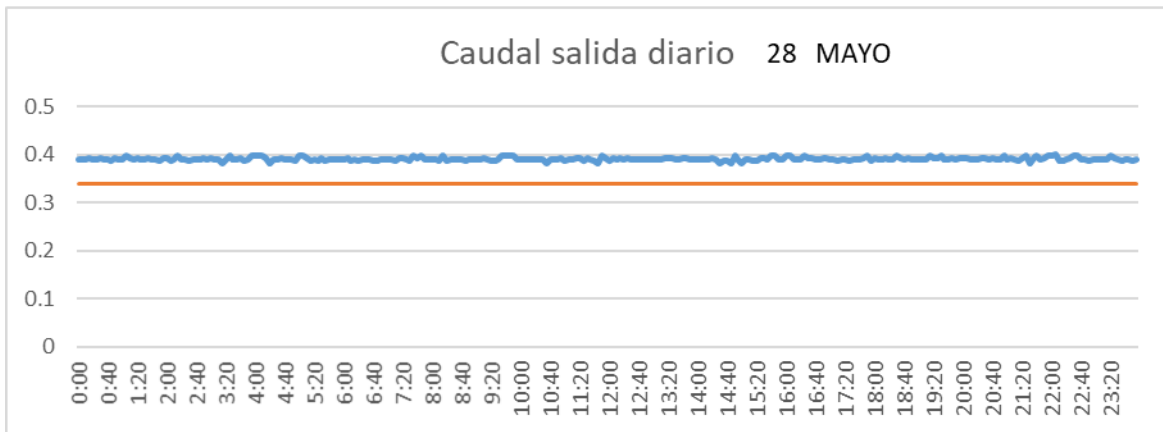
CUENCA



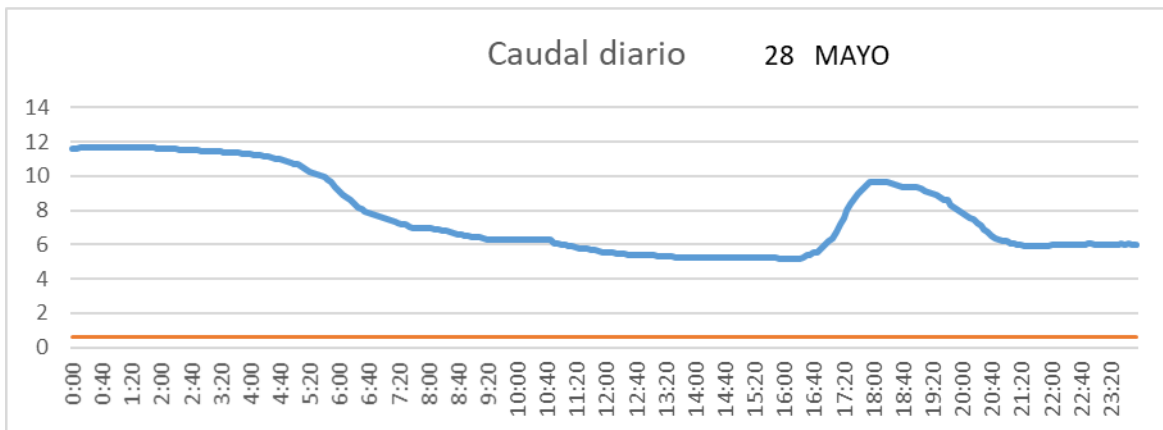
SAN LORENZO PARRILLA



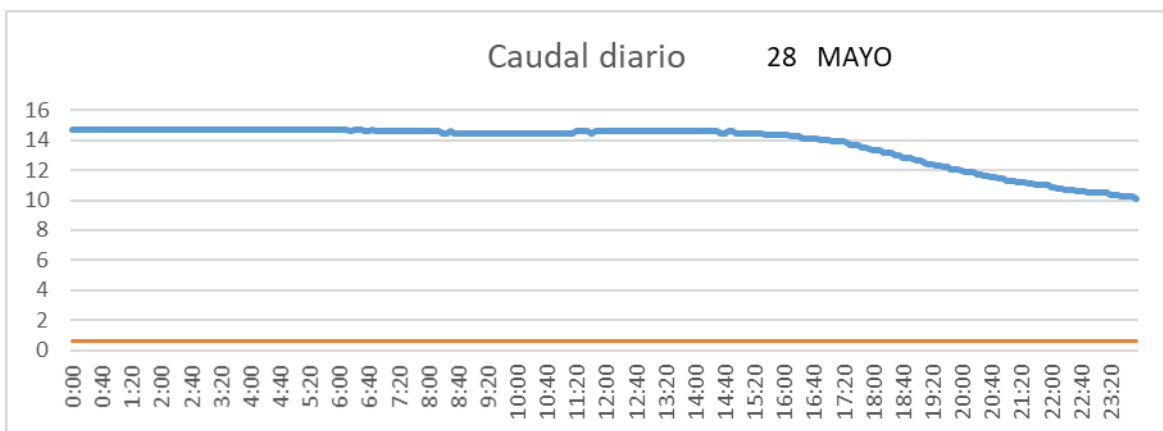
SALIDA TOBA



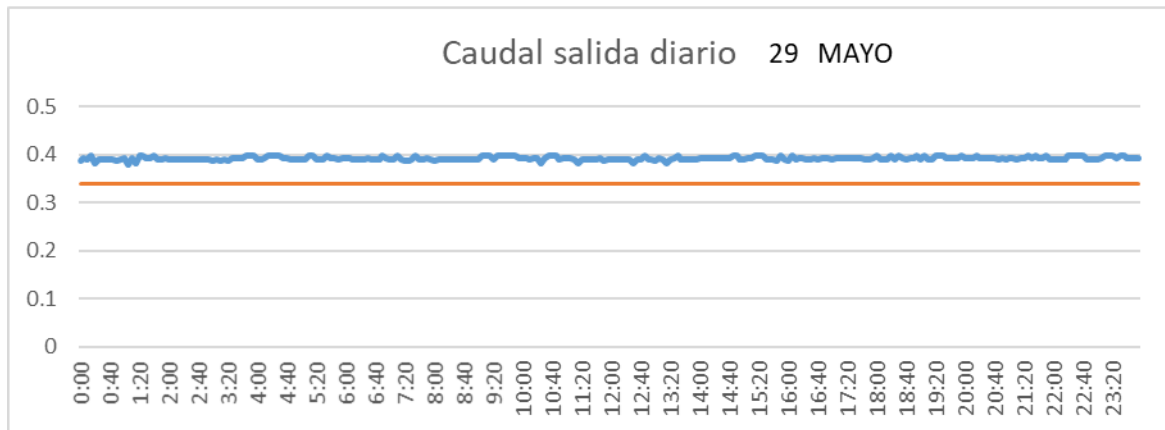
CUENCA



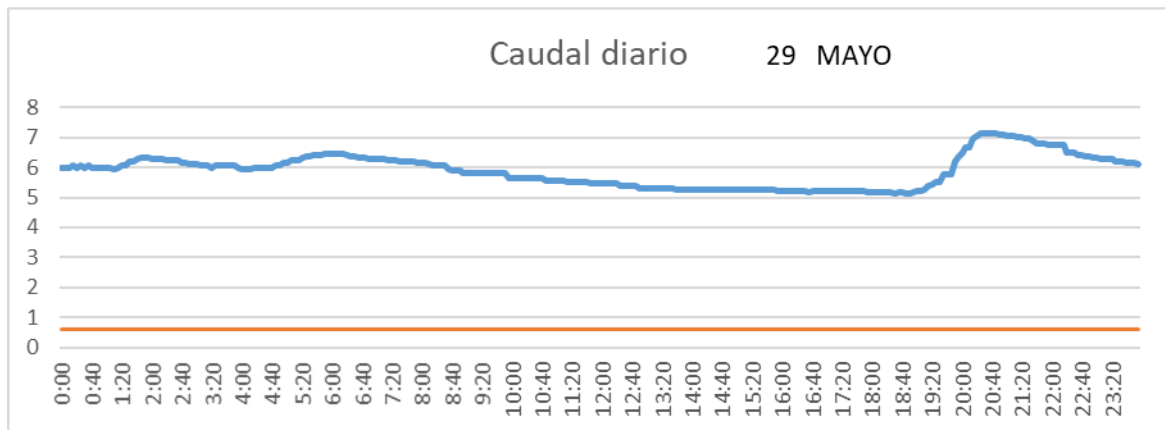
SAN LORENZO PARRILLA



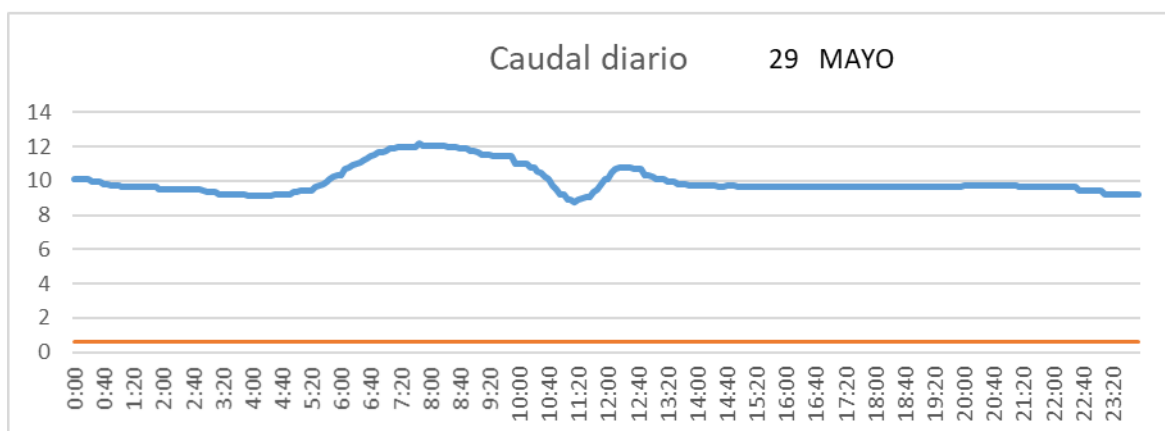
SALIDA TOBA



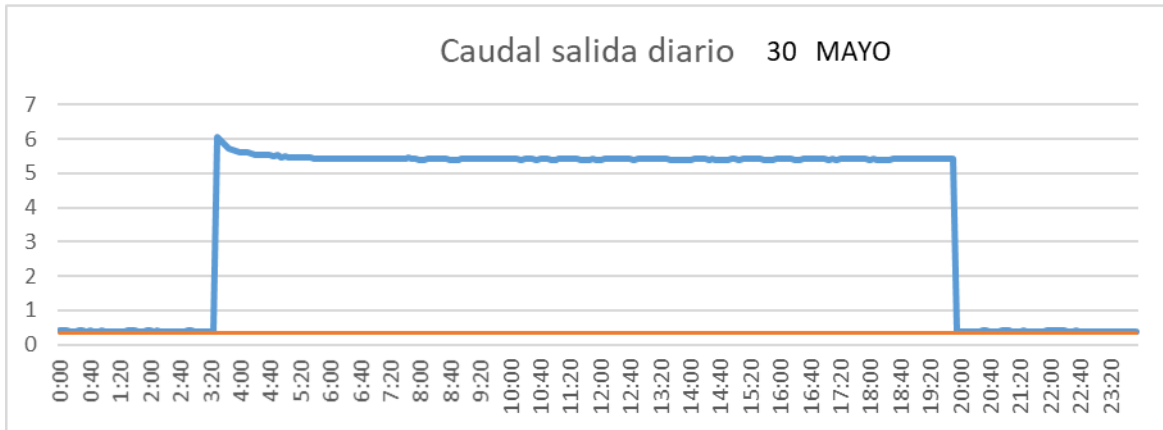
CUENCA



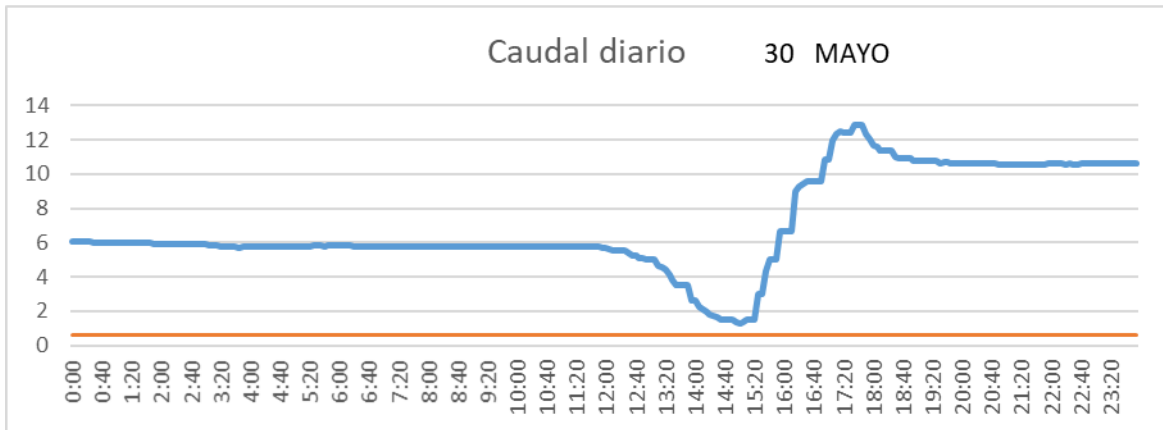
SAN LORENZO PARRILLA



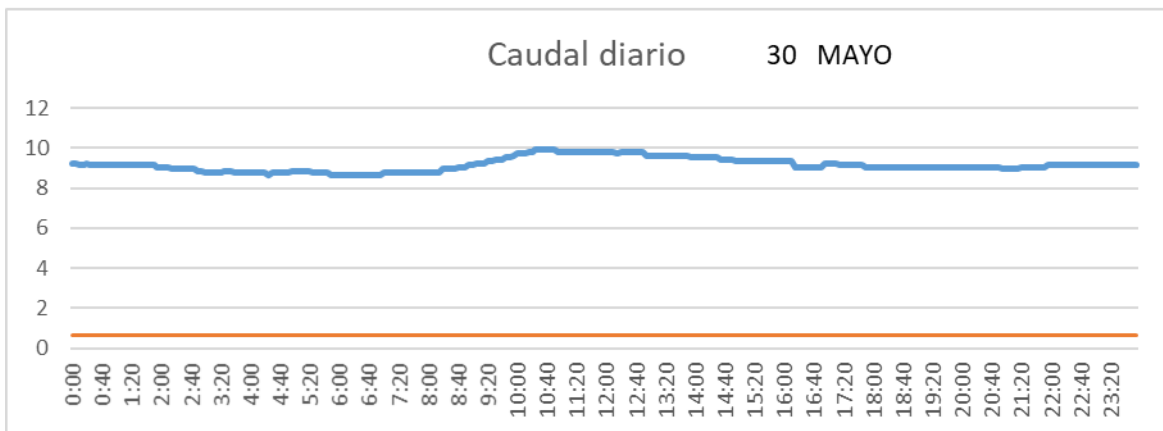
SALIDA TOBA



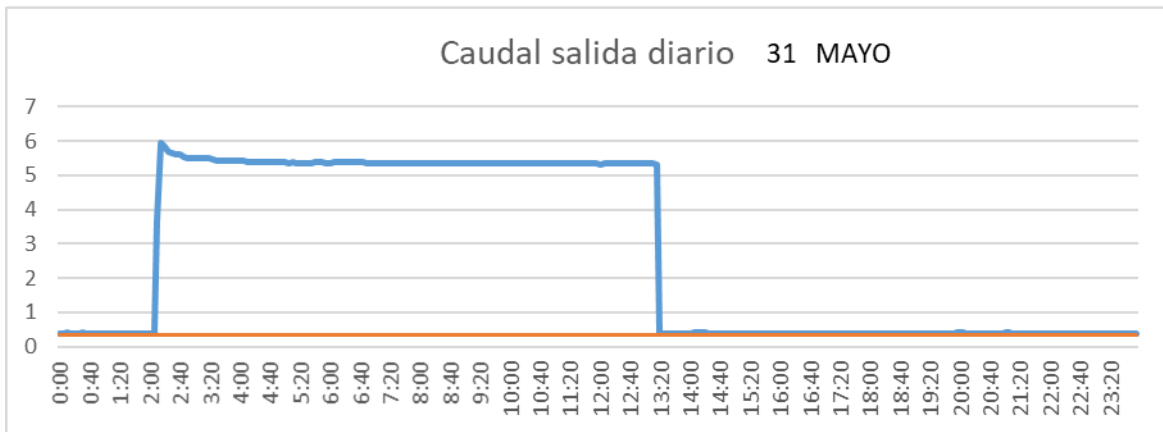
CUENCA



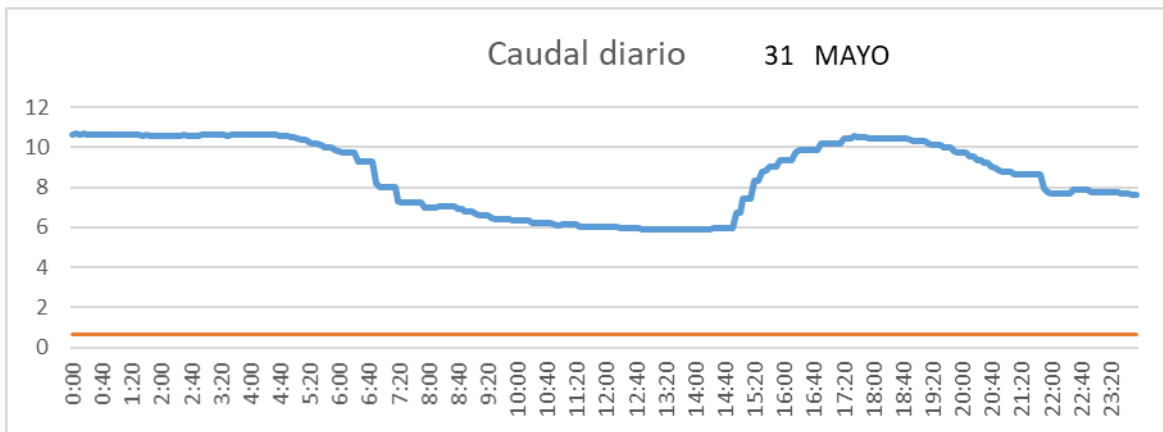
SAN LORENZO PARRILLA



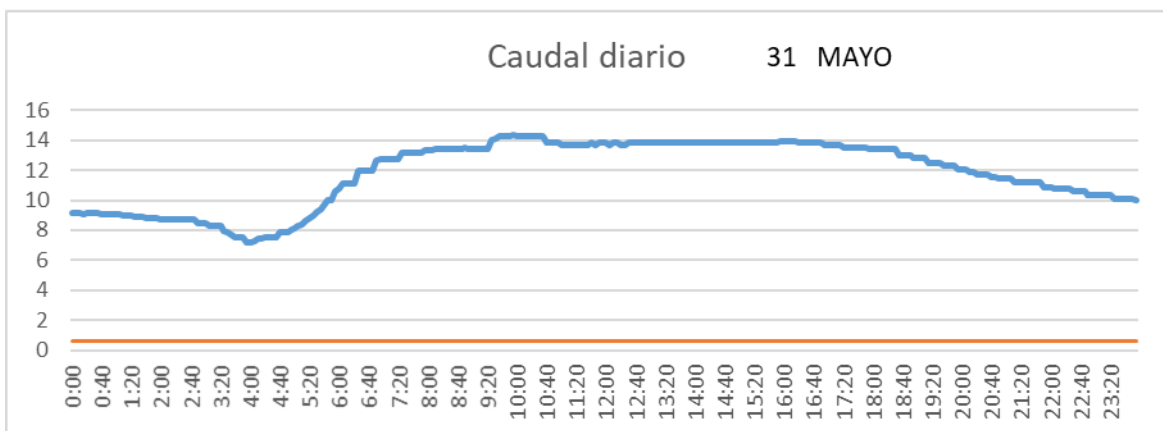
SALIDA TOBA



CUENCA

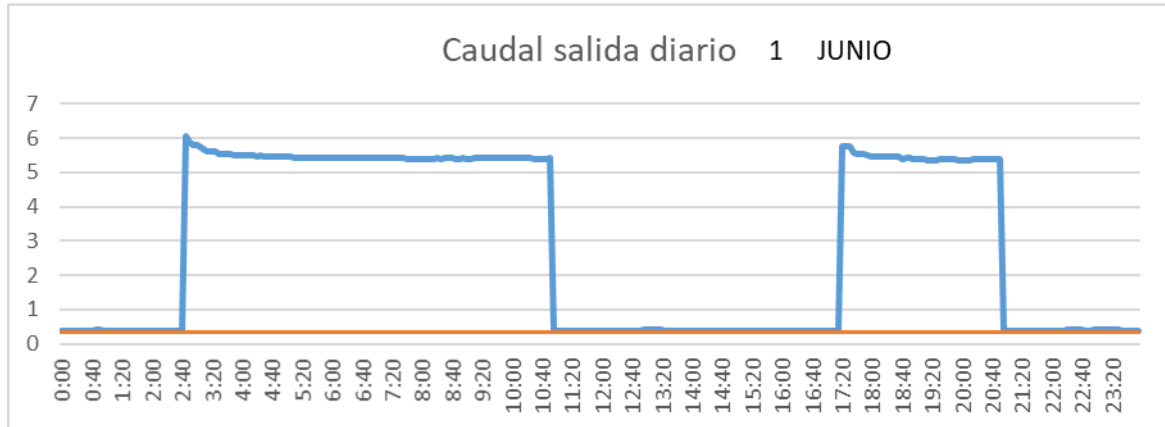


SAN LORENZO PARRILLA

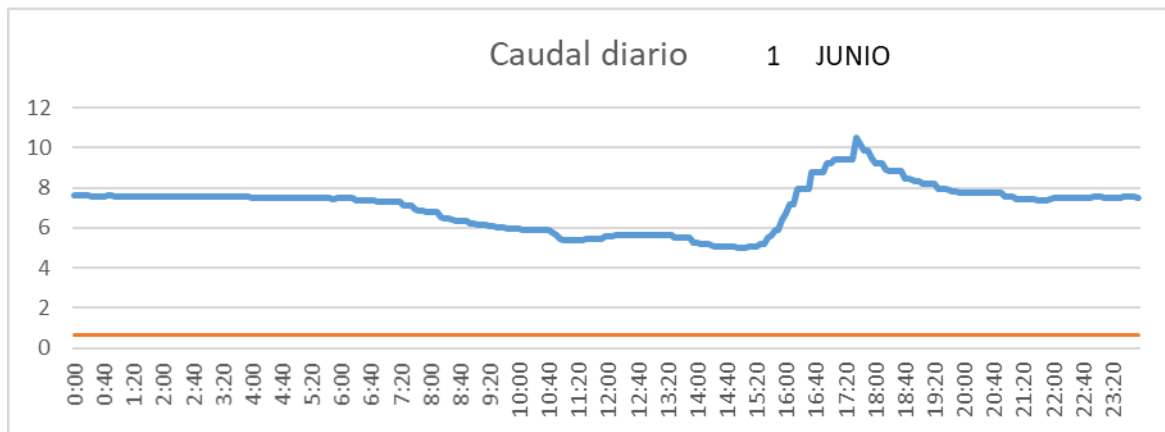


2.2.6 Junio

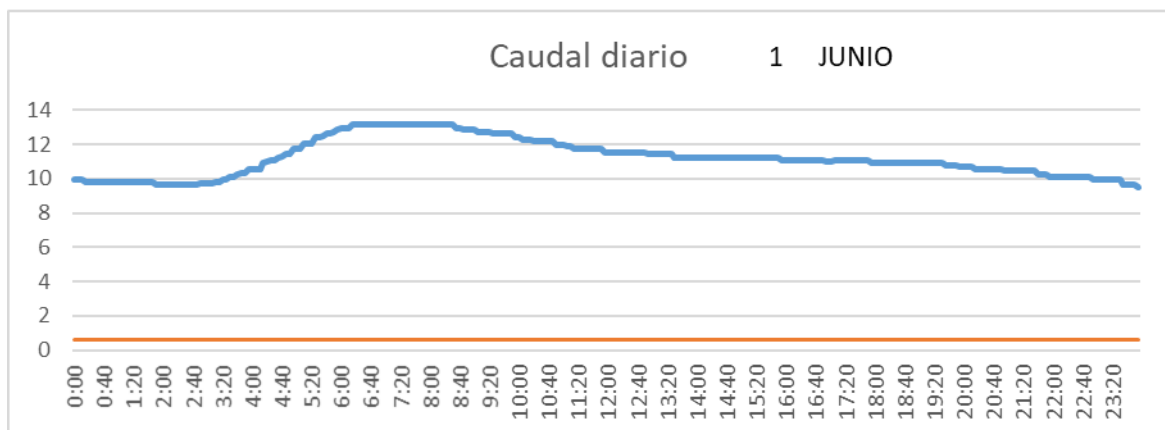
SALIDA TOBA



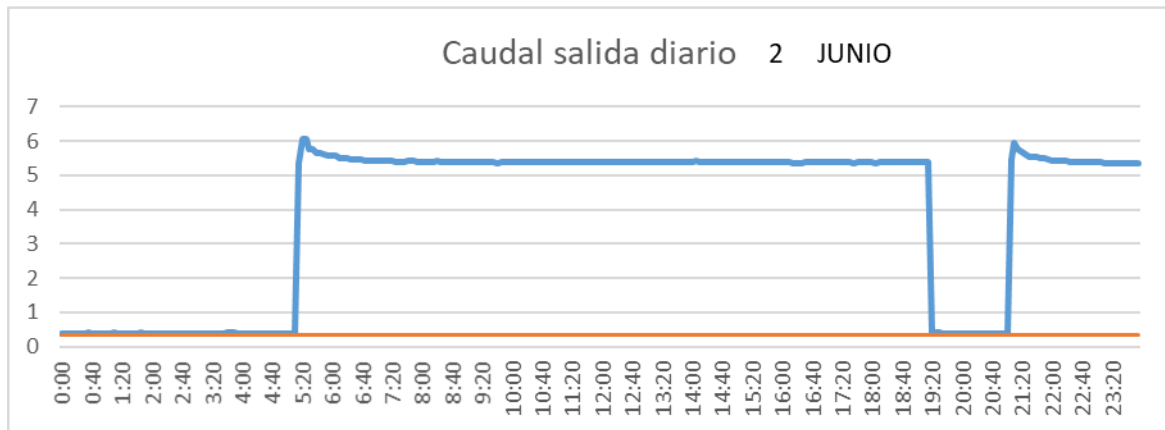
CUENCA



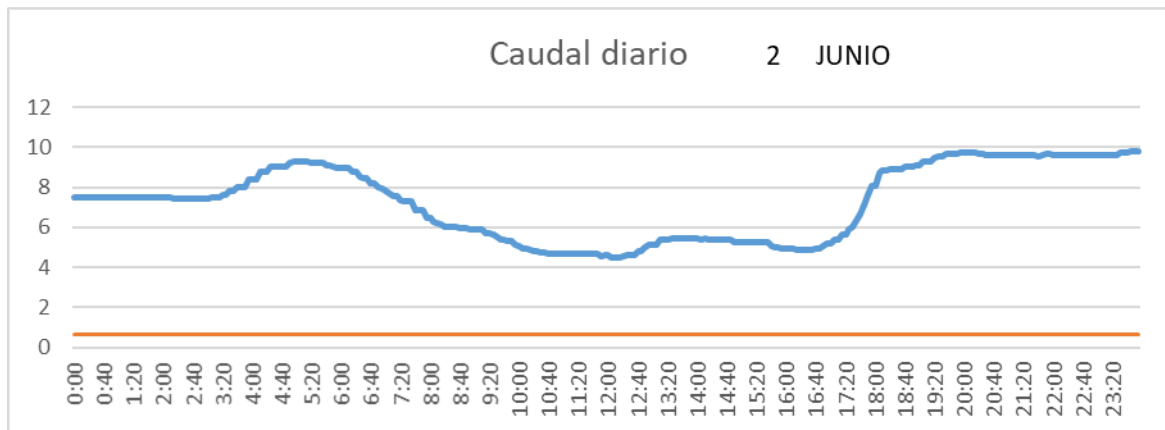
SAN LORENZO PARRILLA



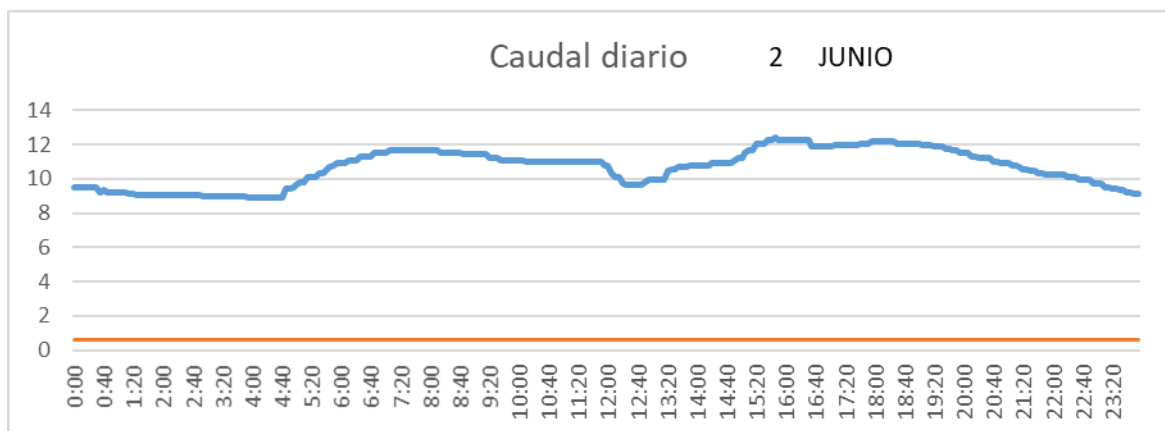
SALIDA TOBA



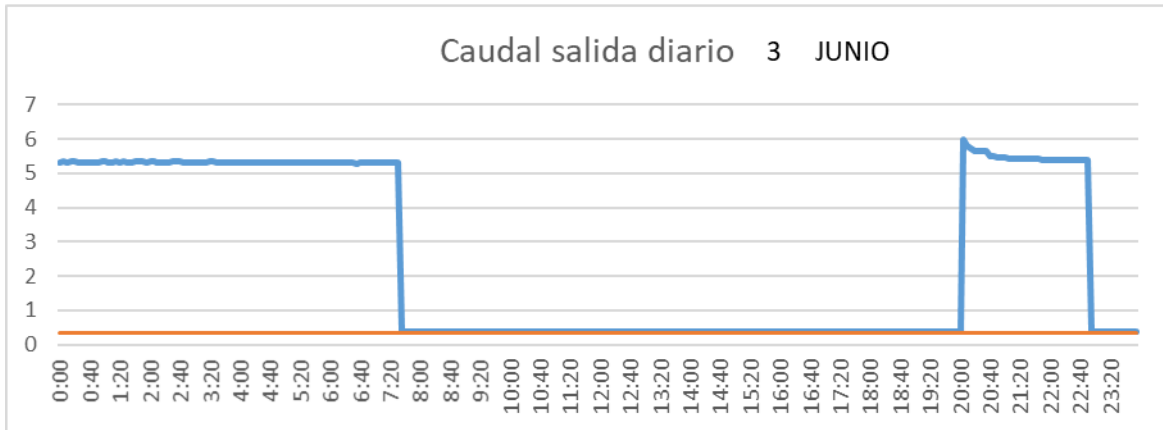
CUENCA



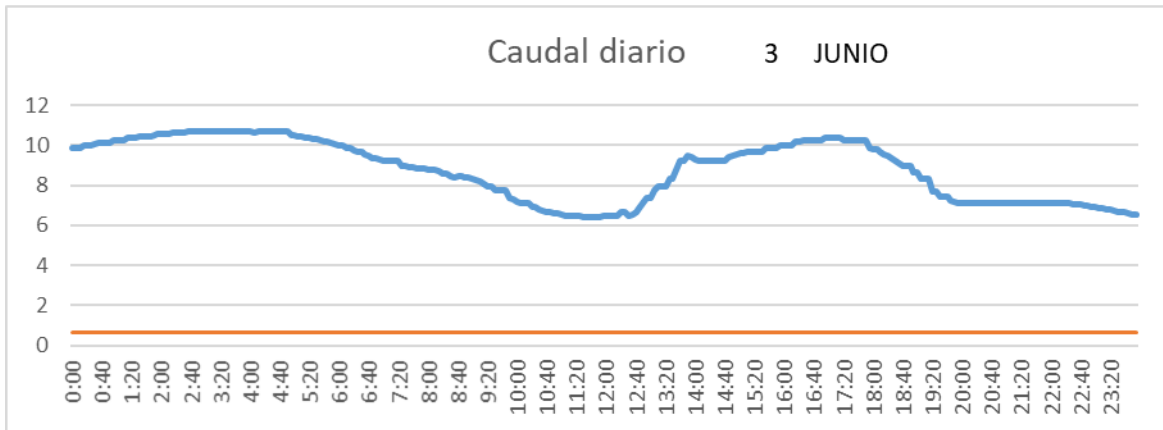
SAN LORENZO PARRILLA



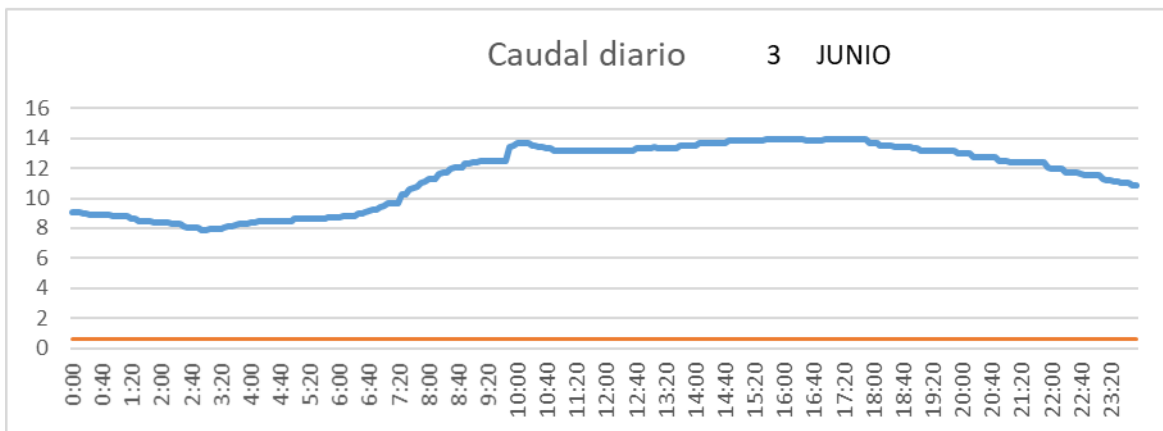
SALIDA TOBA



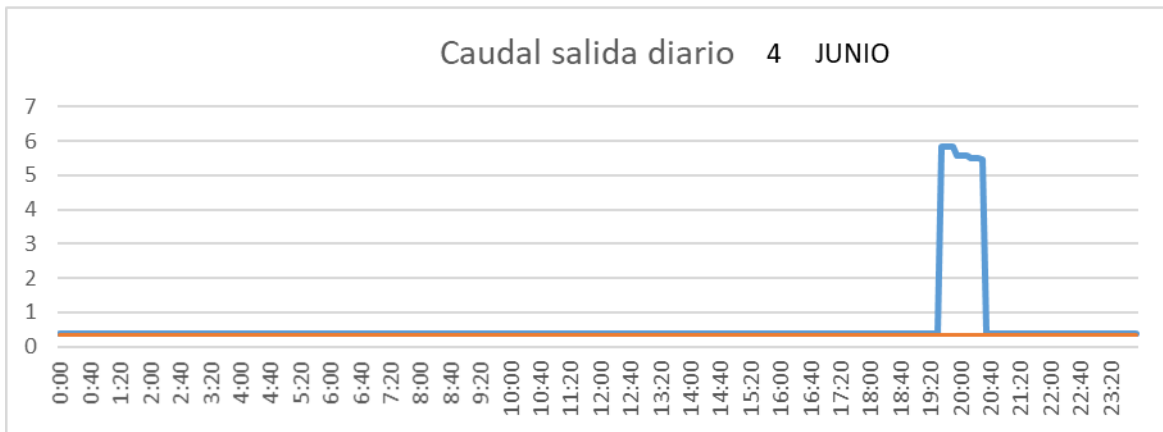
CUENCA



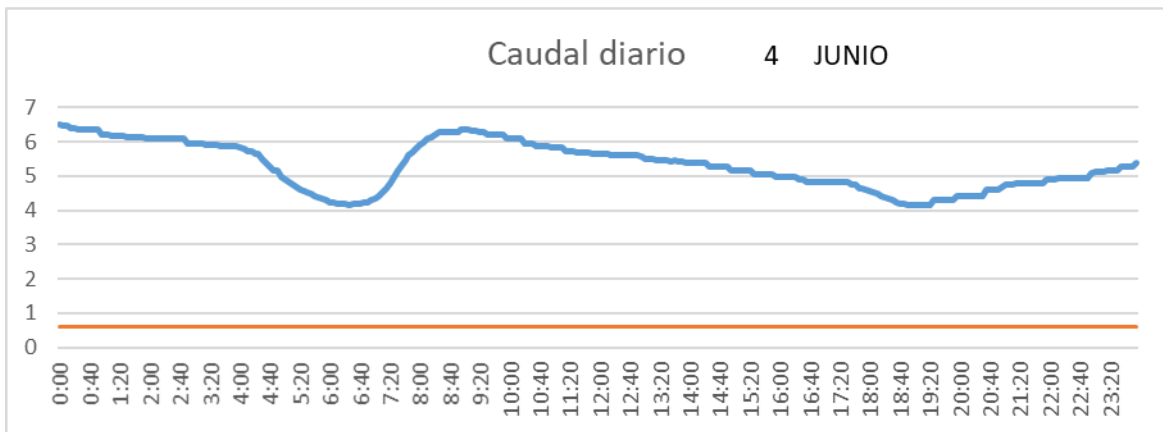
SAN LORENZO PARRILLA



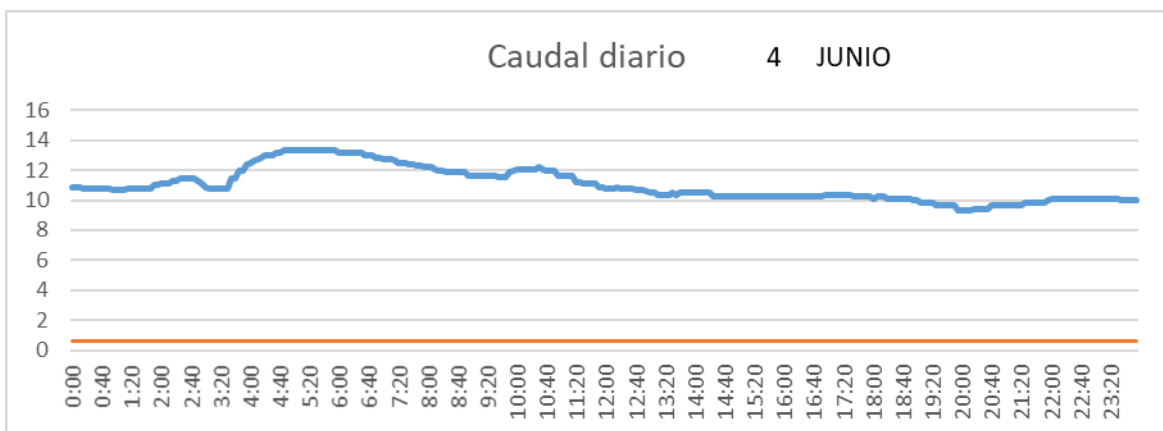
SALIDA TOBA



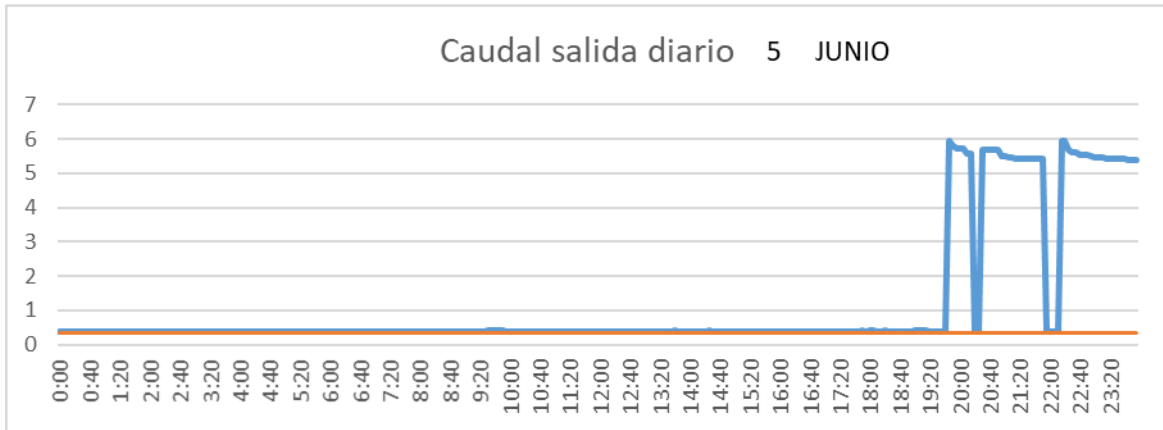
CUENCA



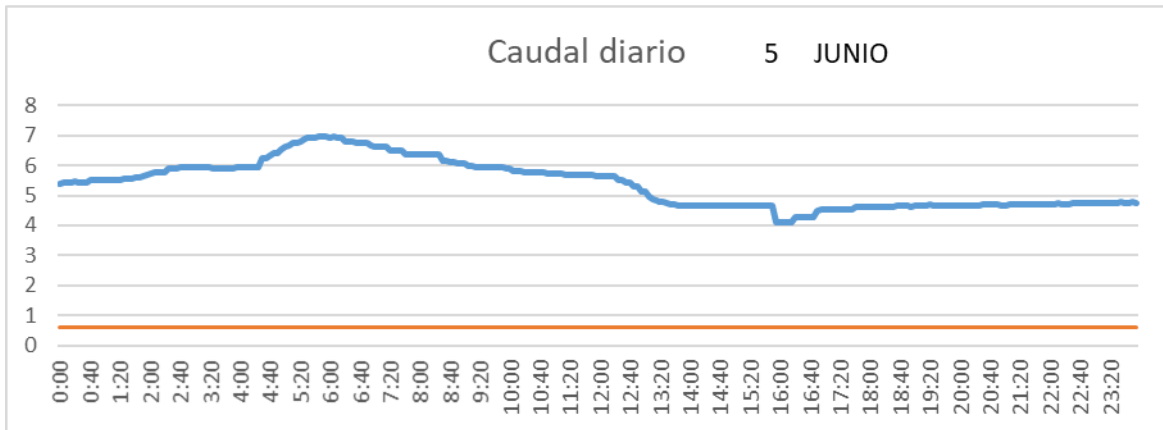
SAN LORENZO PARRILLA



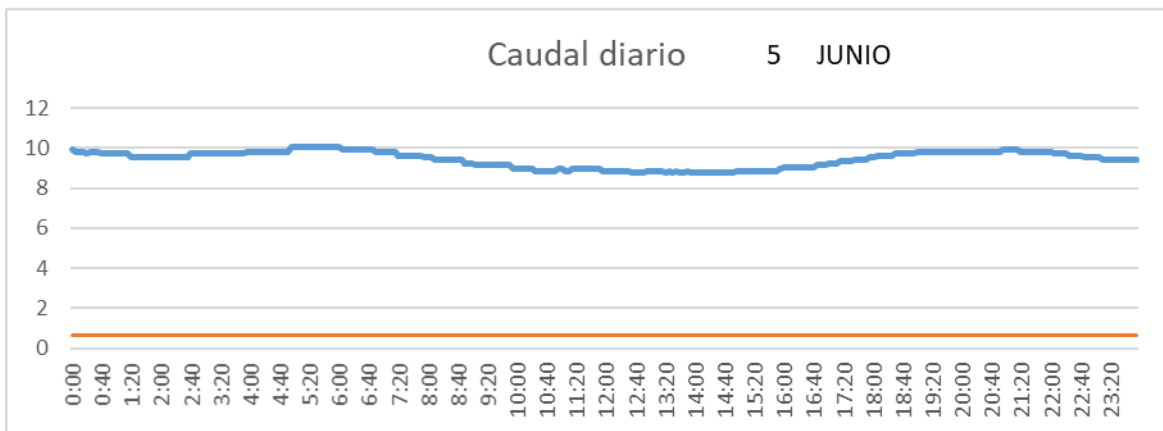
SALIDA TOBA



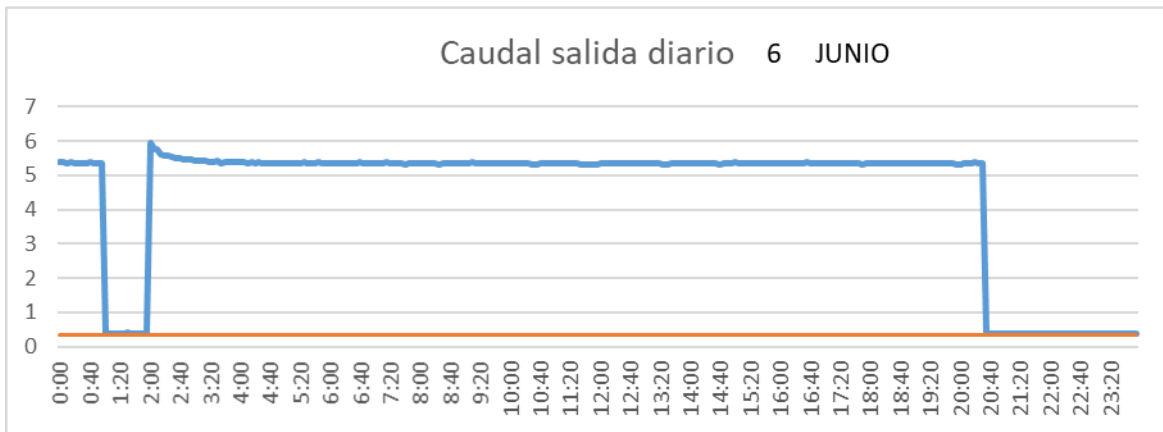
CUENCA



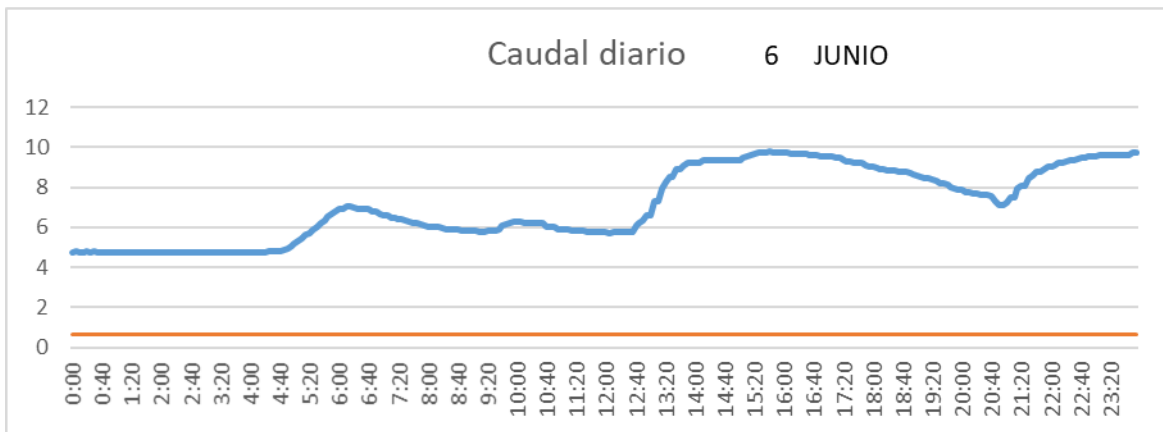
SAN LORENZO PARRILLA



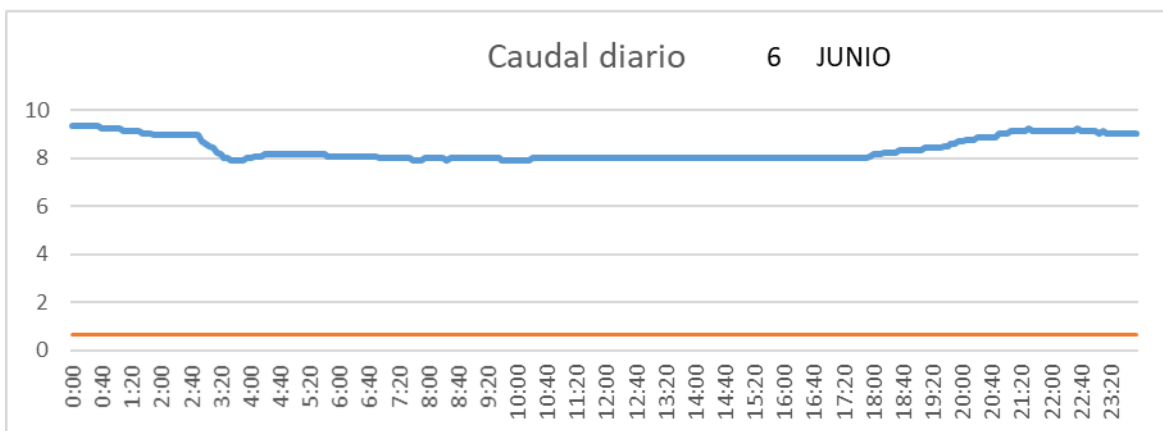
SALIDA TOBA



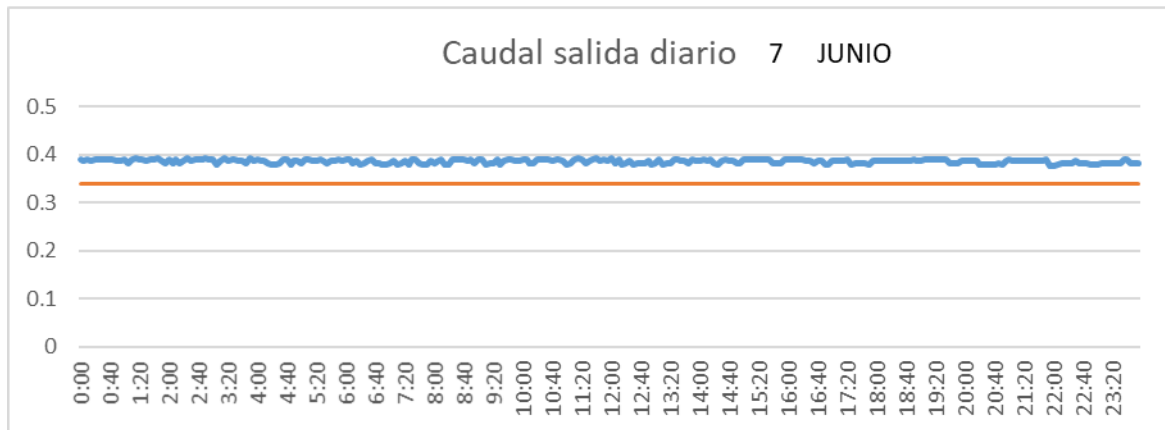
CUENCA



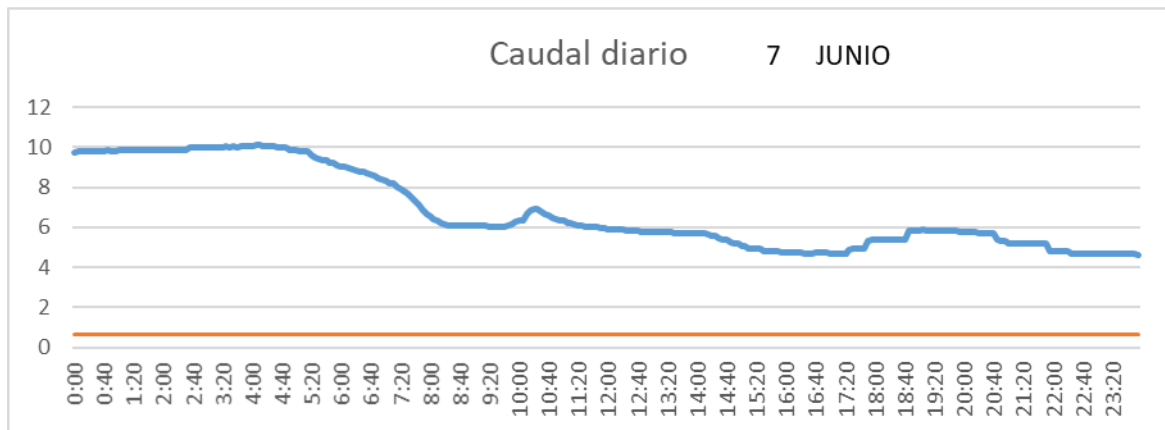
SAN LORENZO PARRILLA



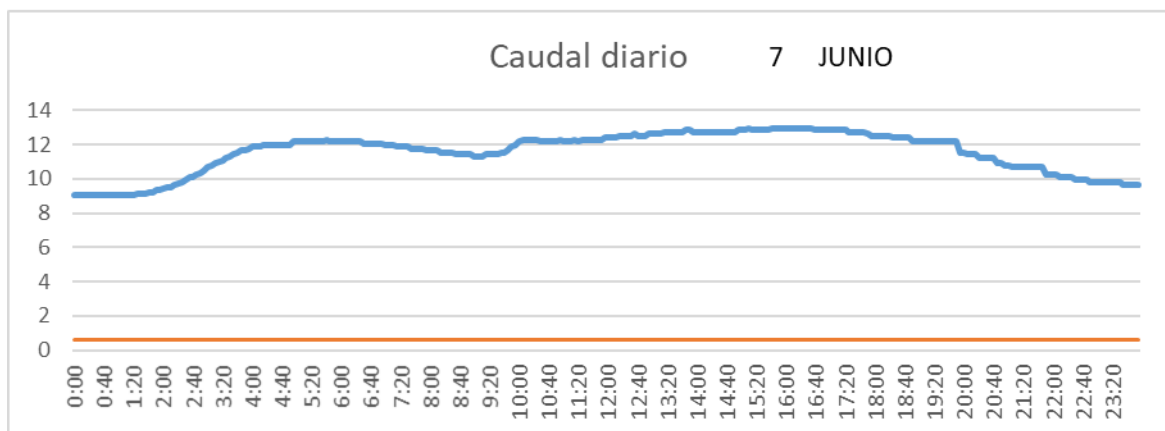
SALIDA TOBA



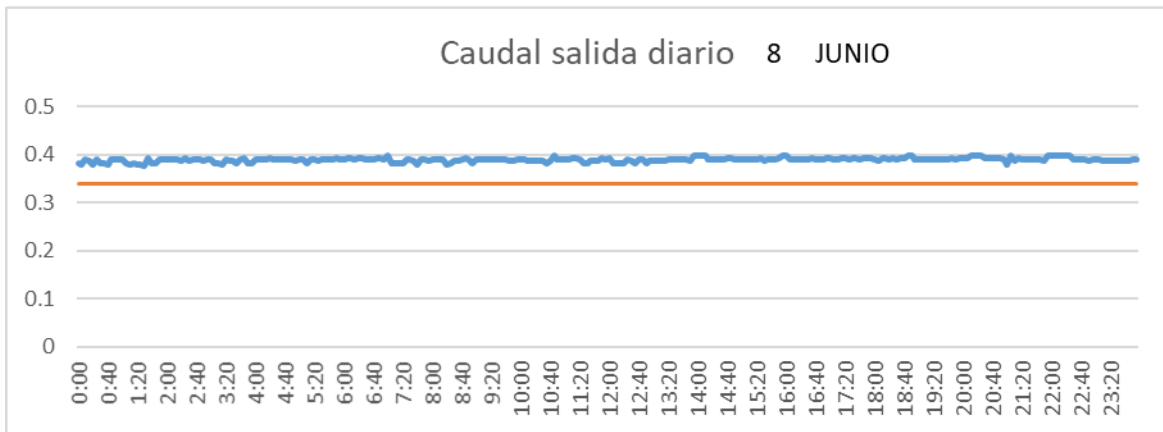
CUENCA



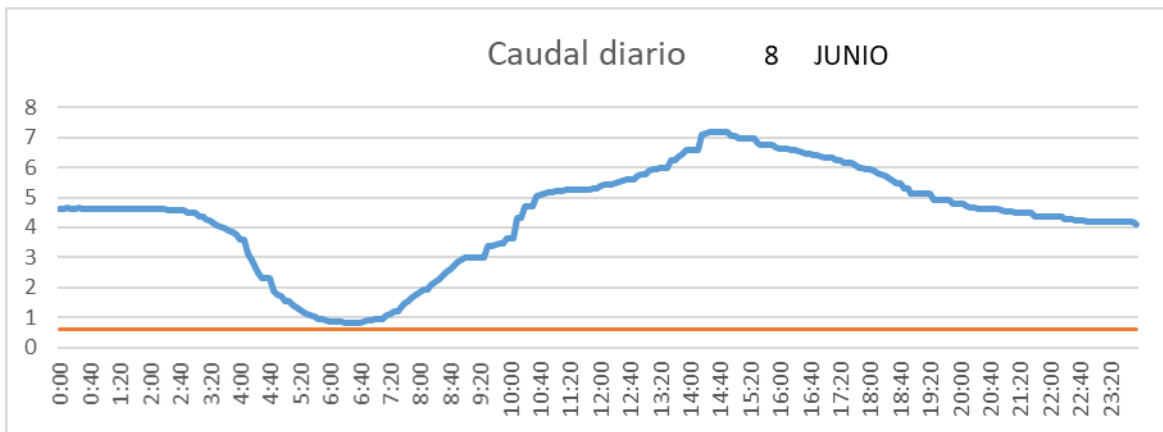
SAN LORENZO PARRILLA



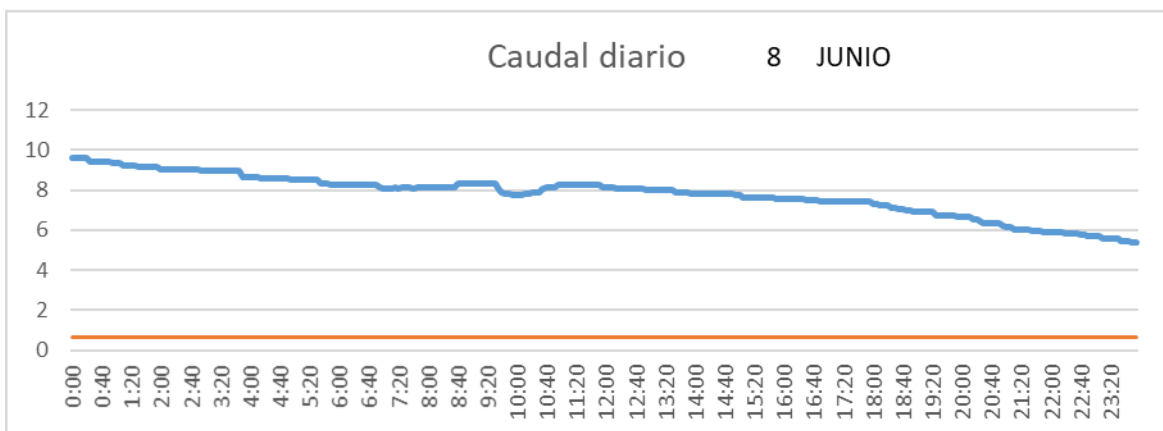
SALIDA TOBA



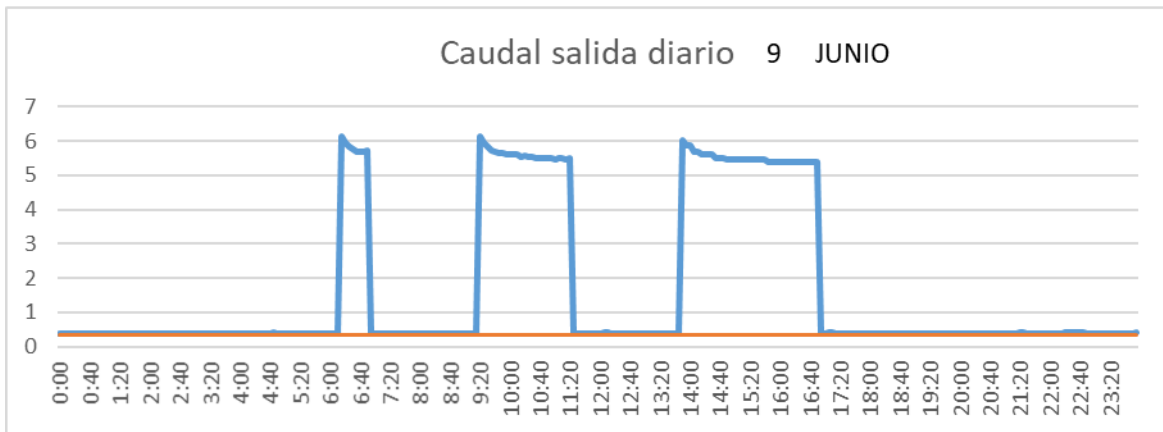
CUENCA



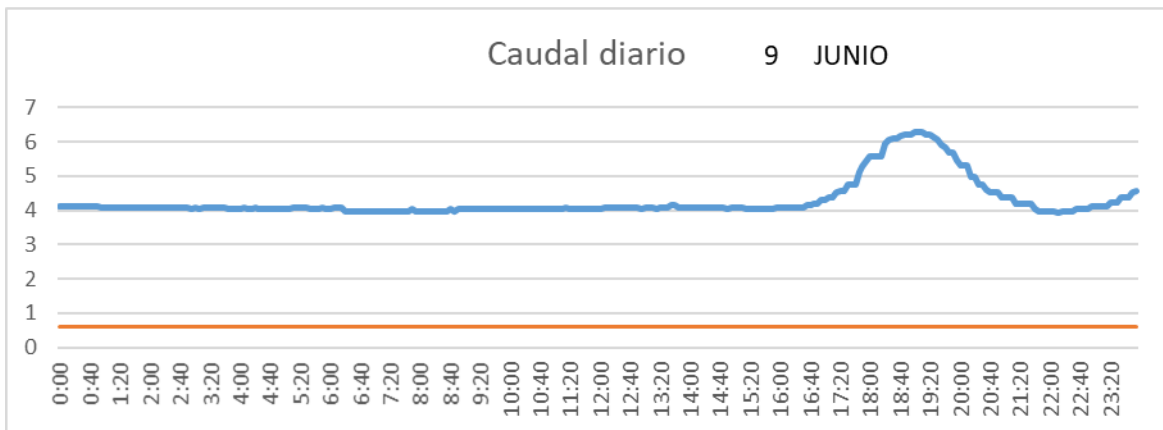
SAN LORENZO PARRILLA



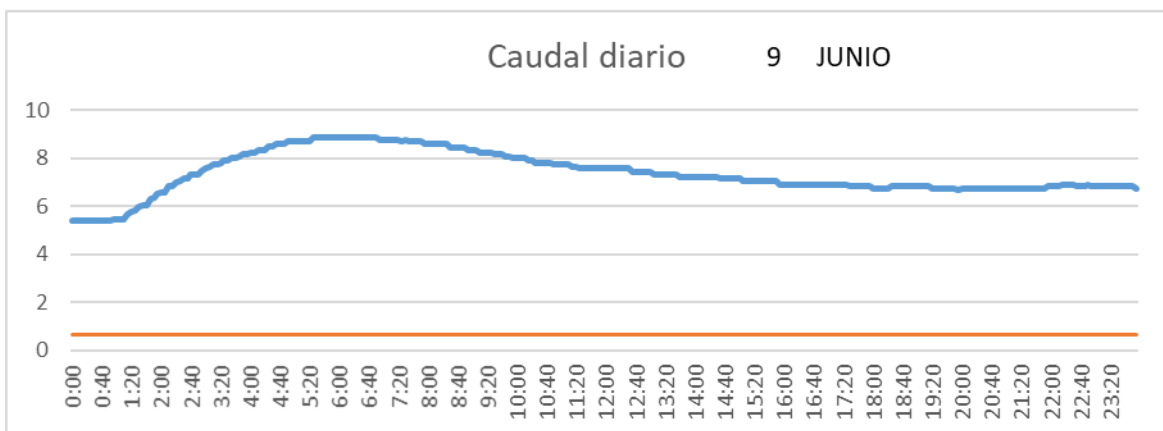
SALIDA TOBA



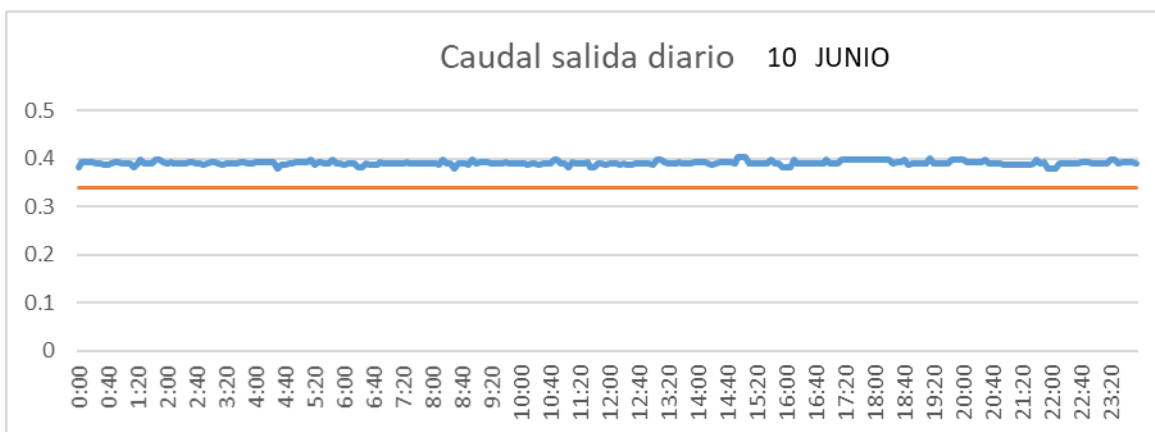
CUENCA



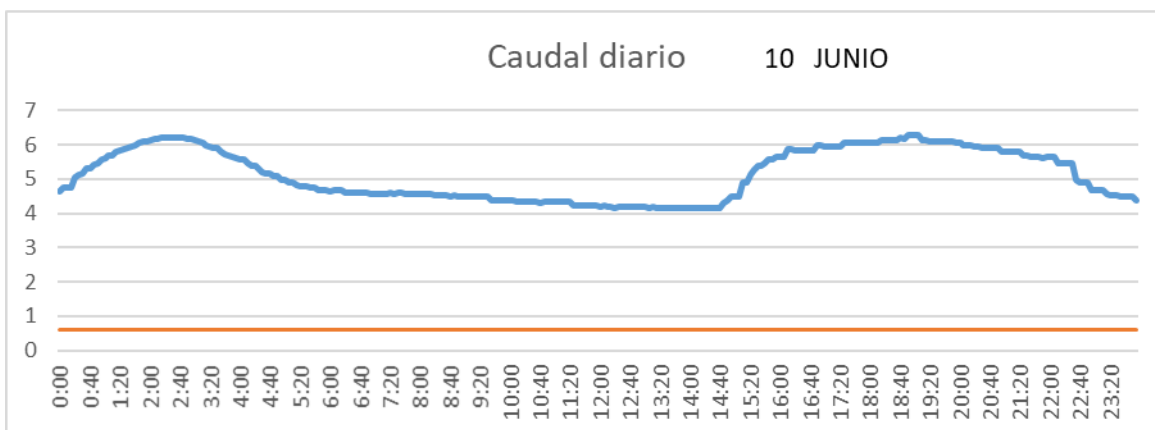
SAN LORENZO PARRILLA



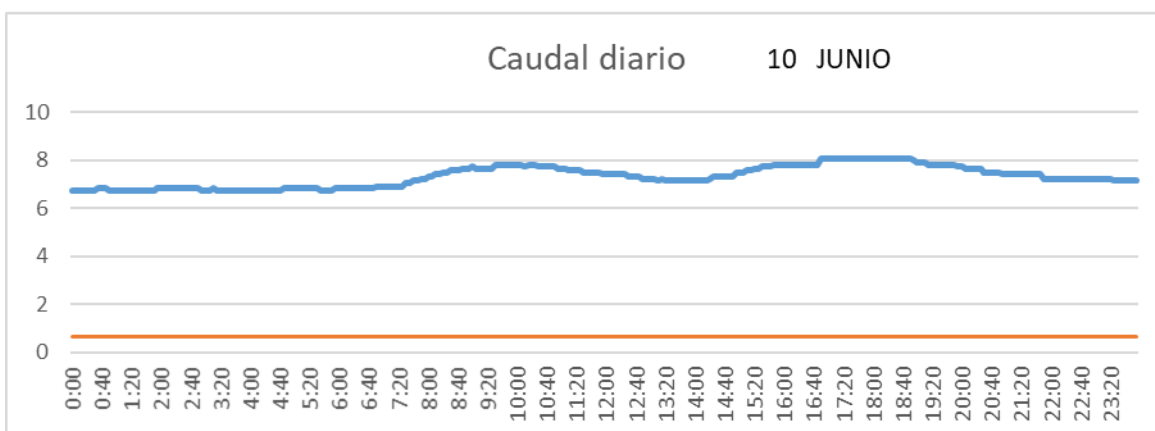
SALIDA TOBA



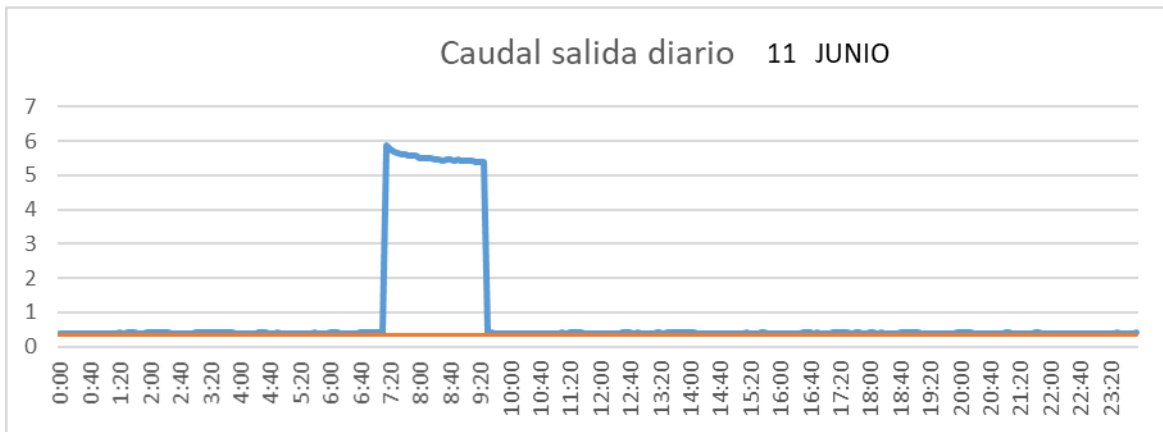
CUENCA



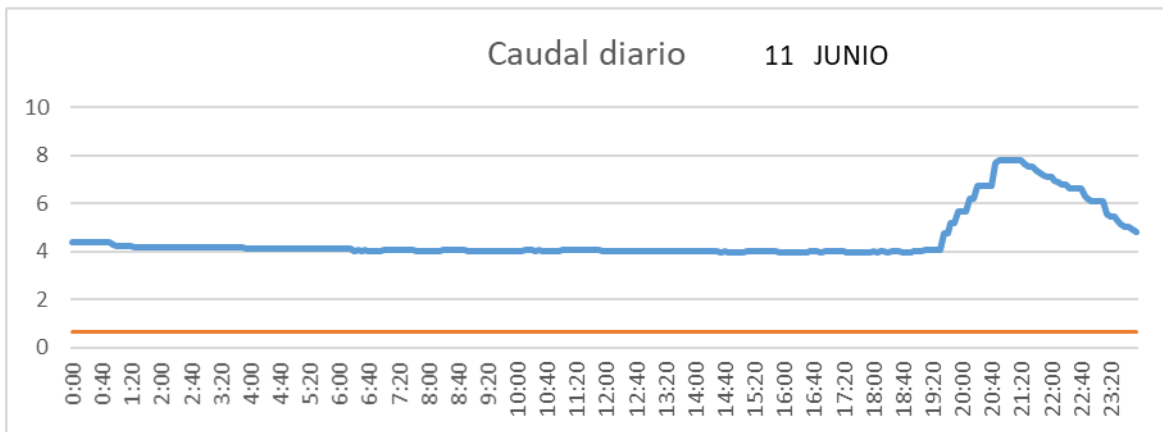
SAN LORENZO PARRILLA



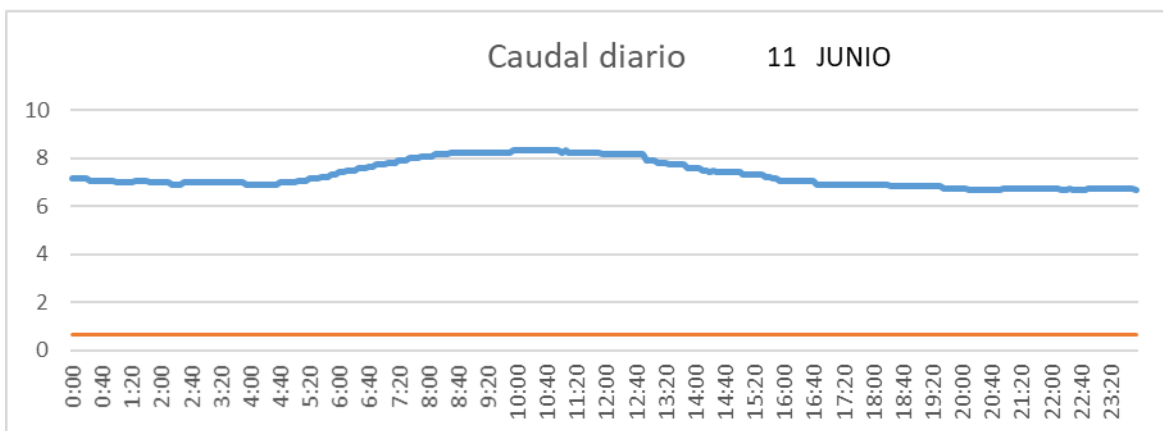
SALIDA TOBA



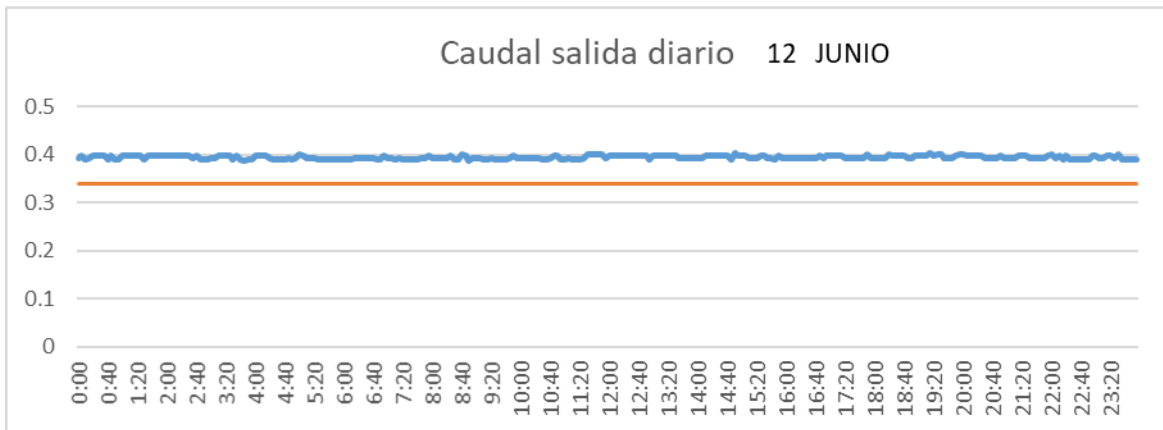
CUENCA



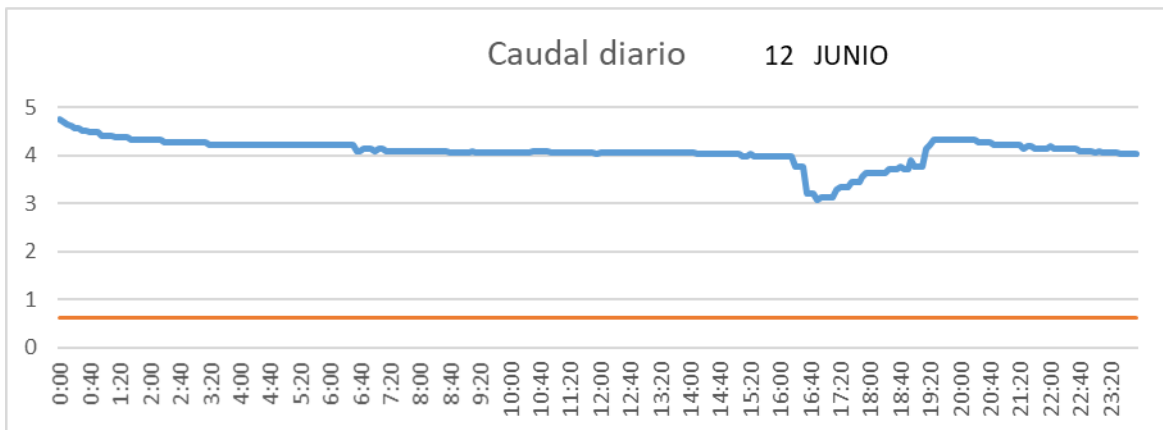
SAN LORENZO PARRILLA



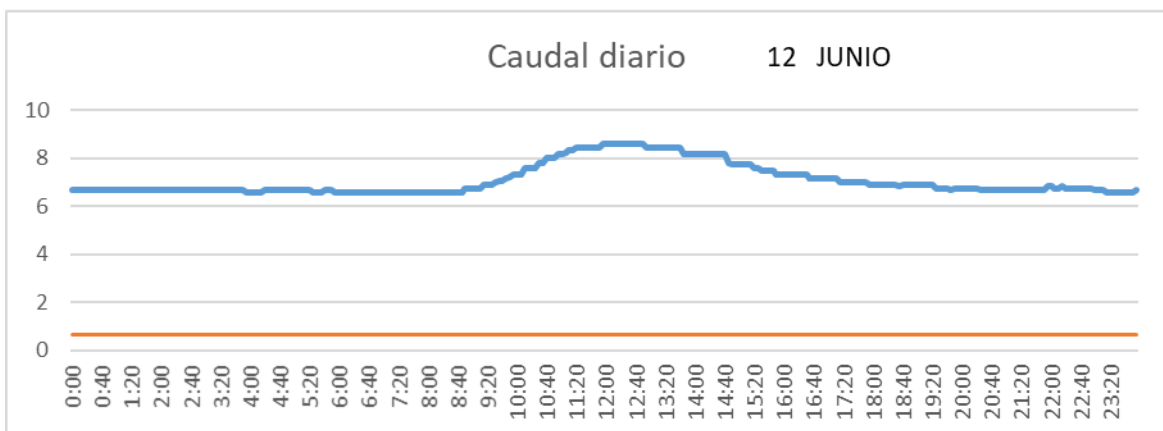
SALIDA TOBA



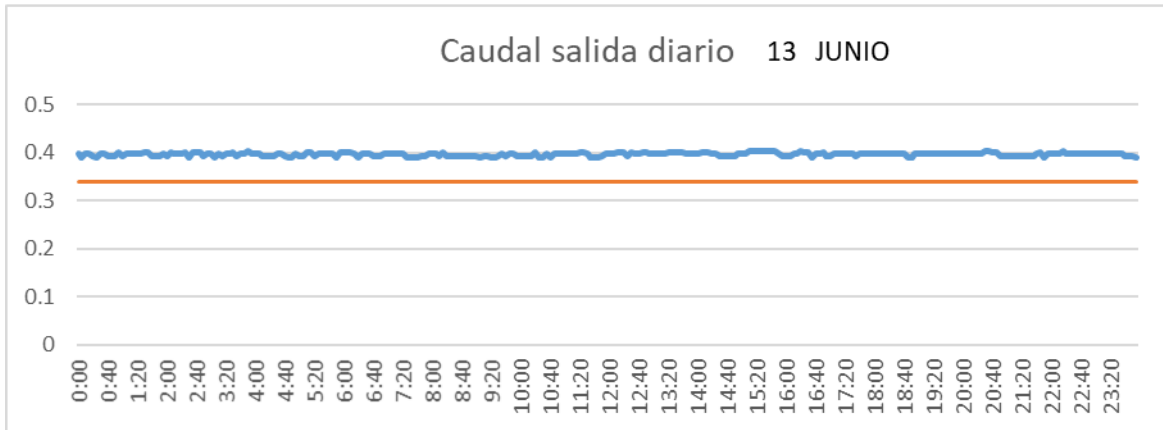
CUENCA



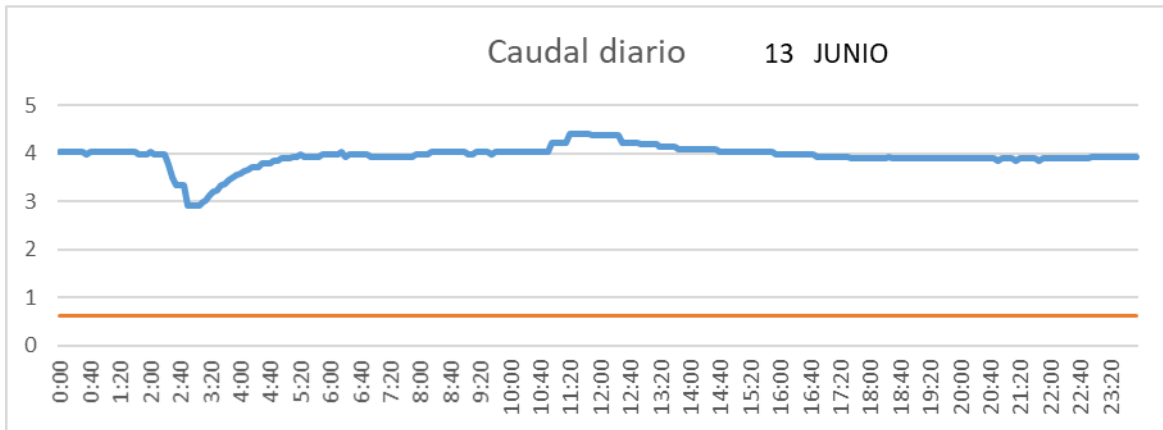
SAN LORENZO PARRILLA



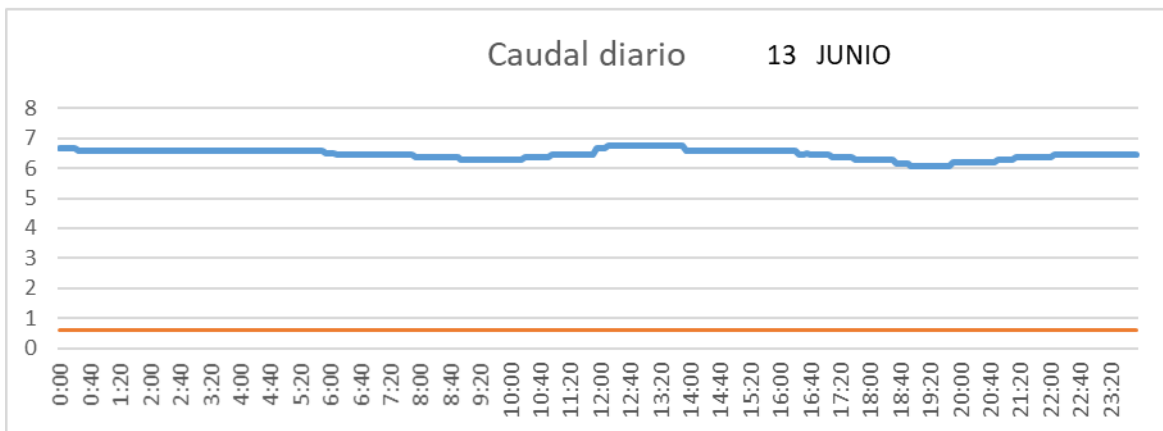
SALIDA TOBA



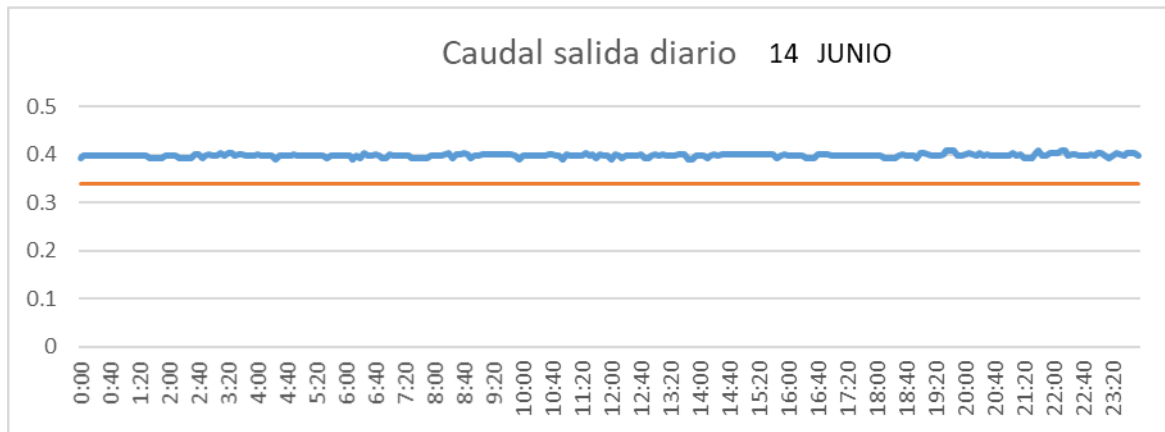
CUENCA



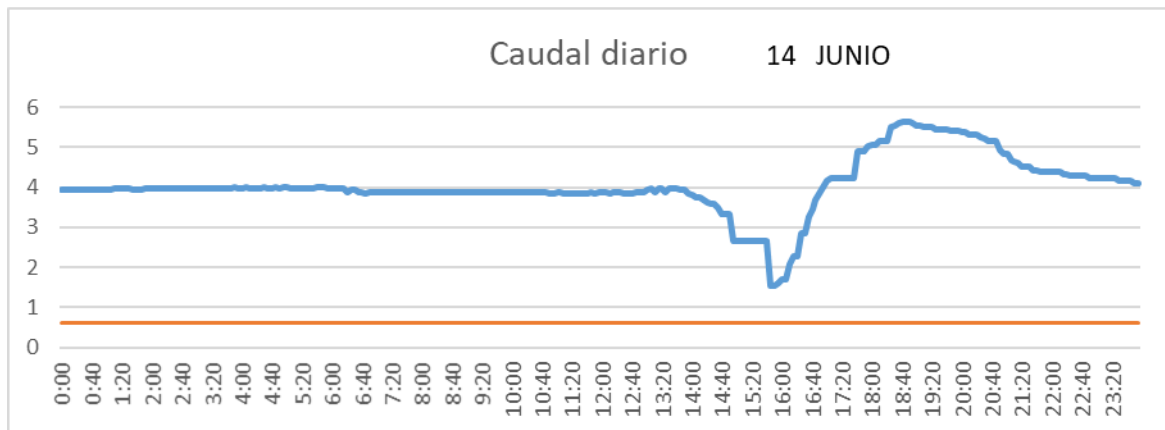
SAN LORENZO PARRILLA



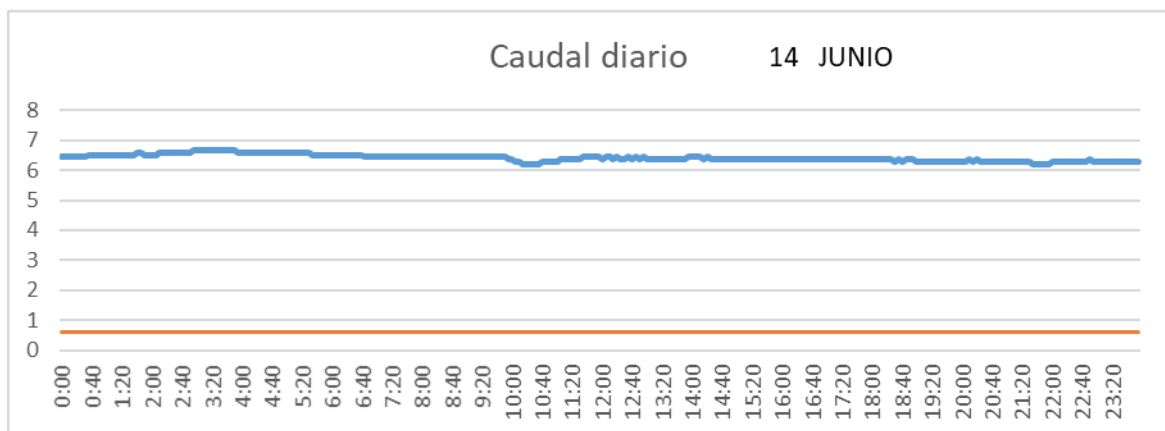
SALIDA TOBA



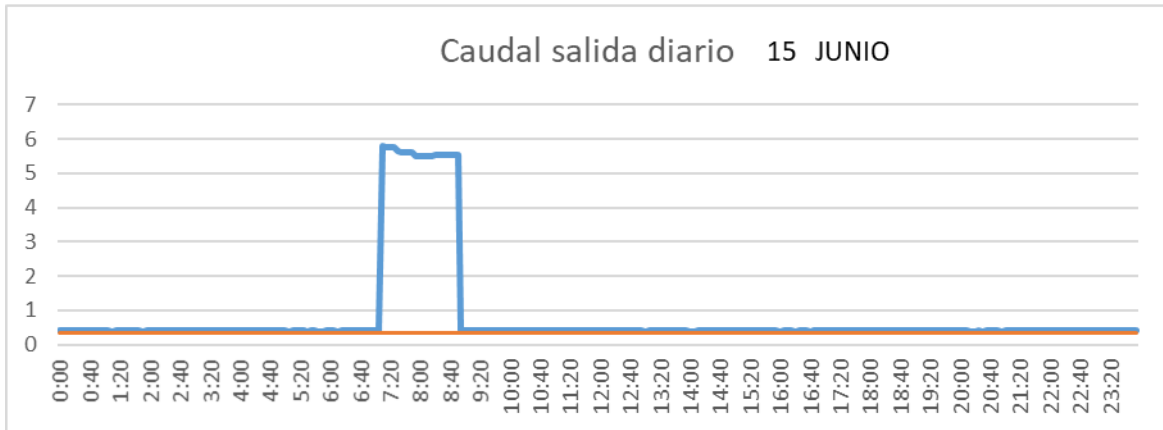
CUENCA



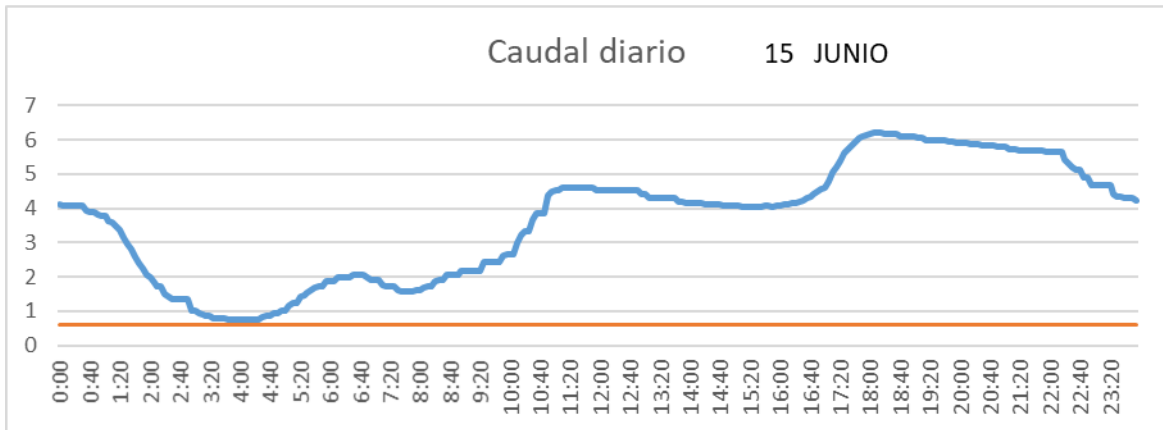
SAN LORENZO PARRILLA



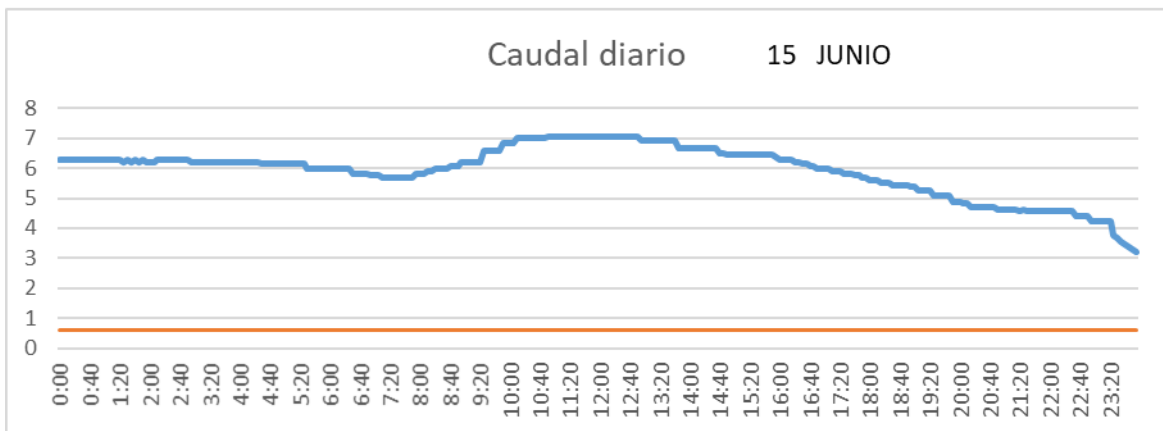
SALIDA TOBA



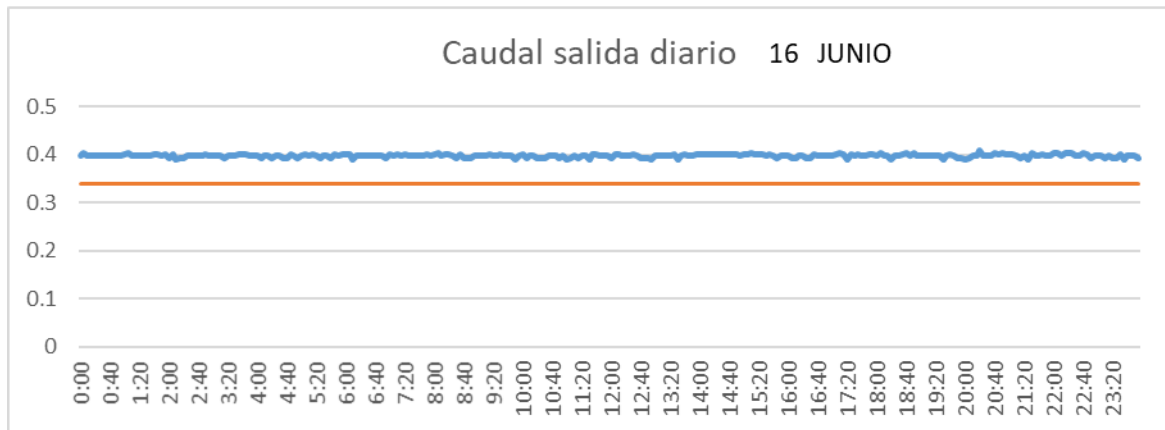
CUENCA



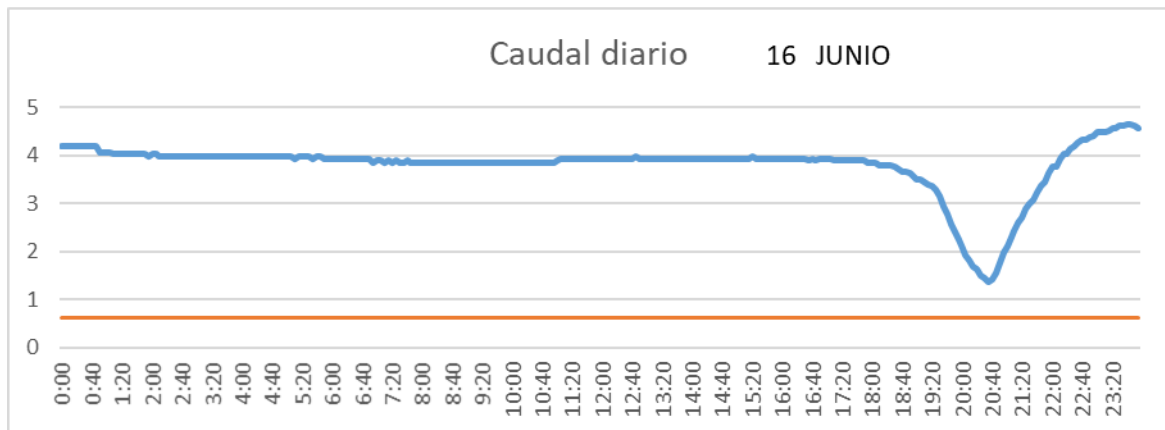
SAN LORENZO PARRILLA



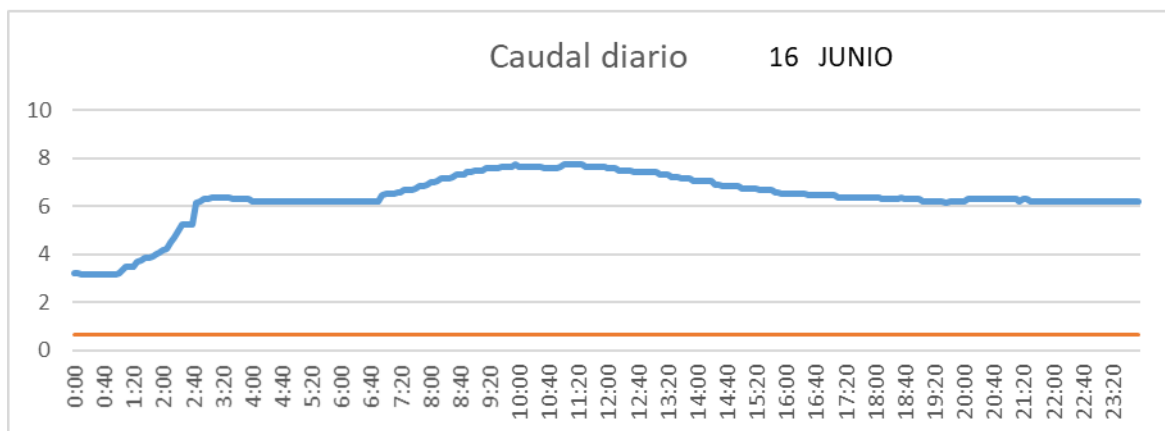
SALIDA TOBA



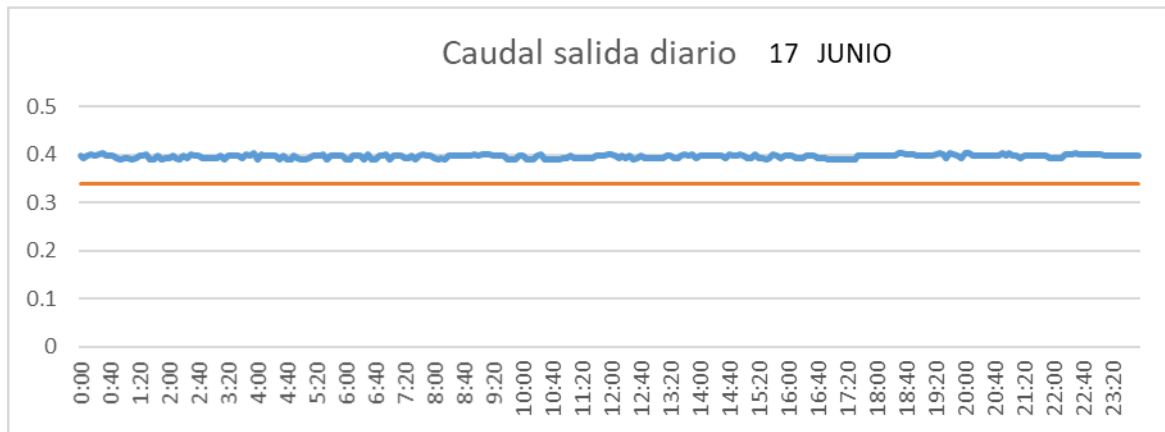
CUENCA



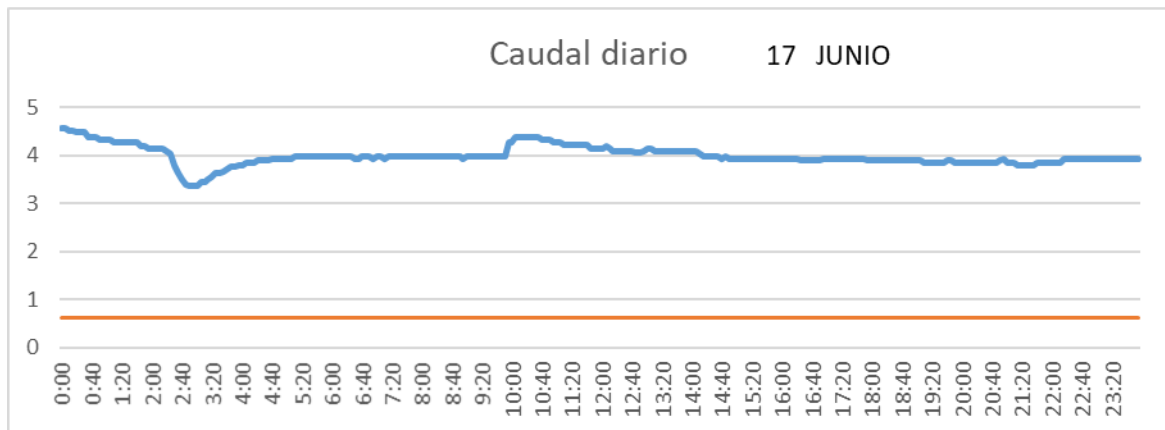
SAN LORENZO PARRILLA



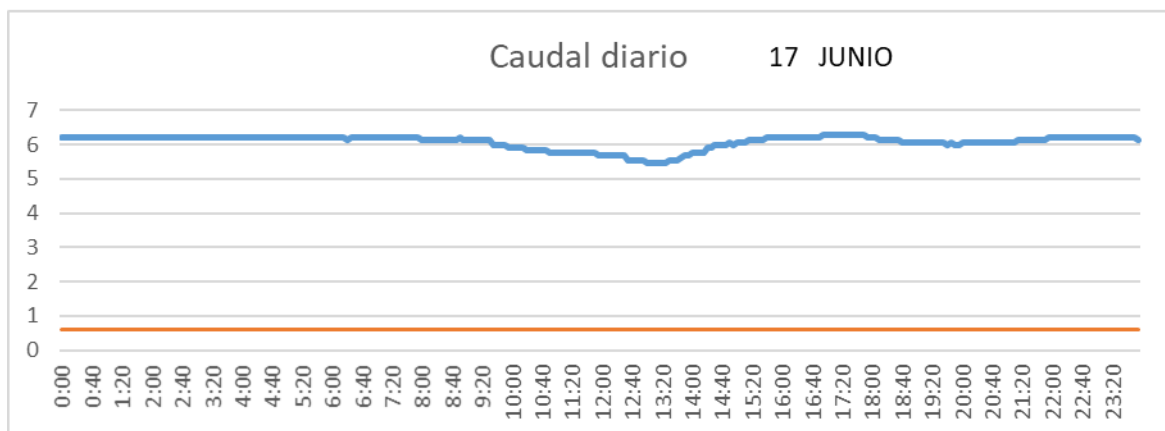
SALIDA TOBA



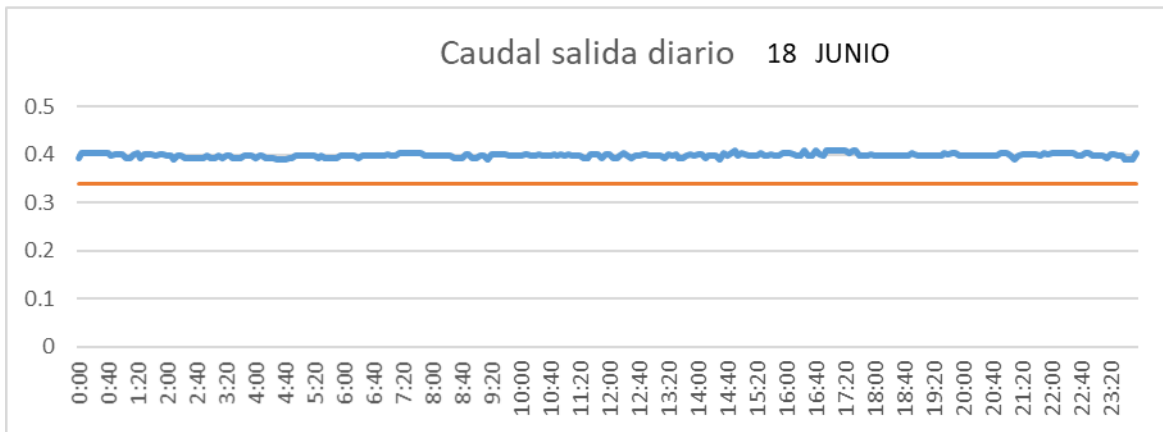
CUENCA



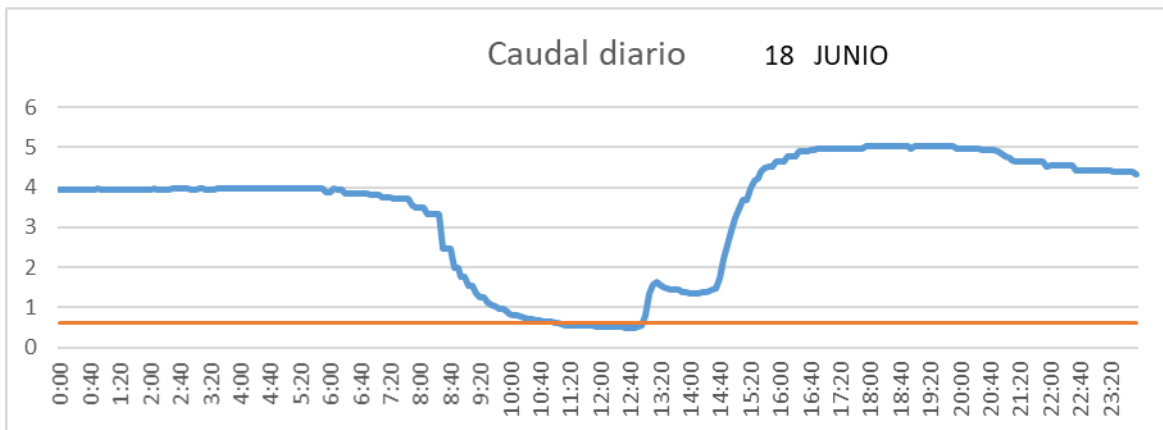
SAN LORENZO PARRILLA



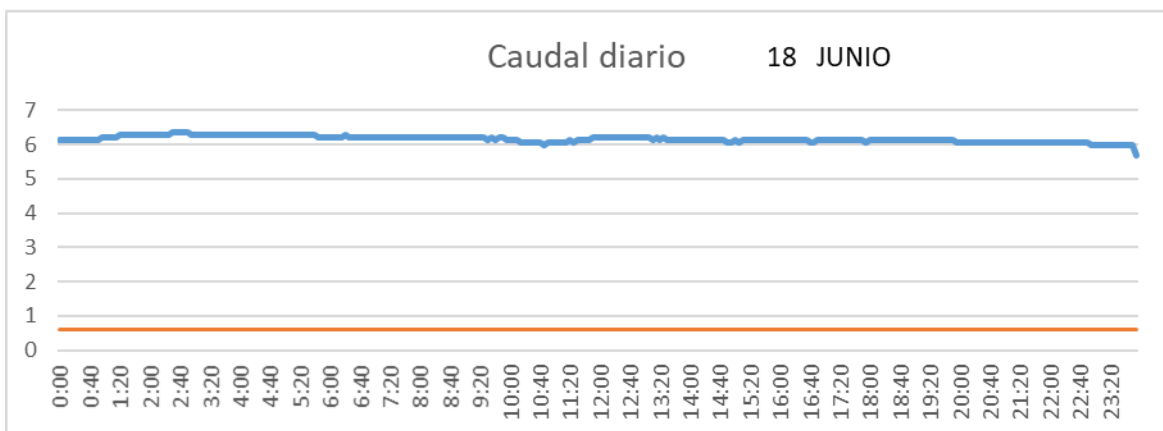
SALIDA TOBA



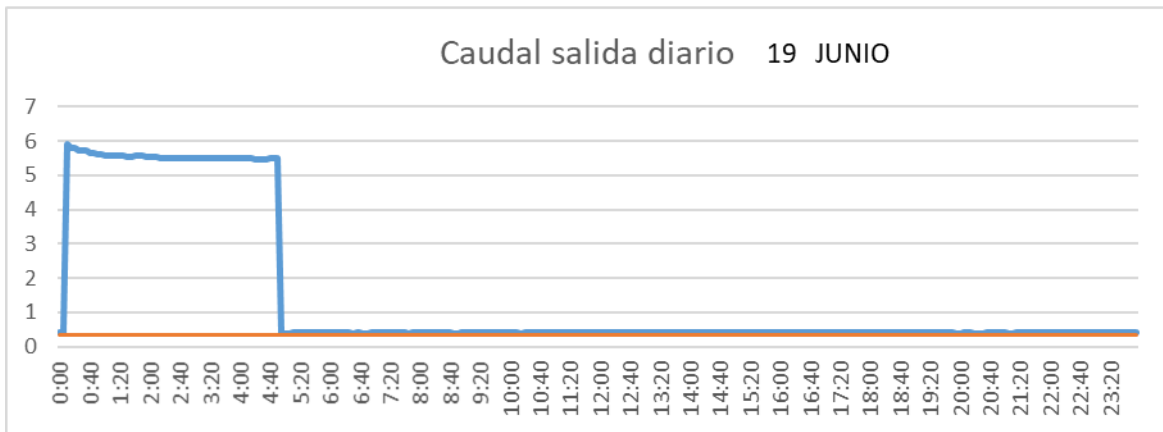
CUENCA



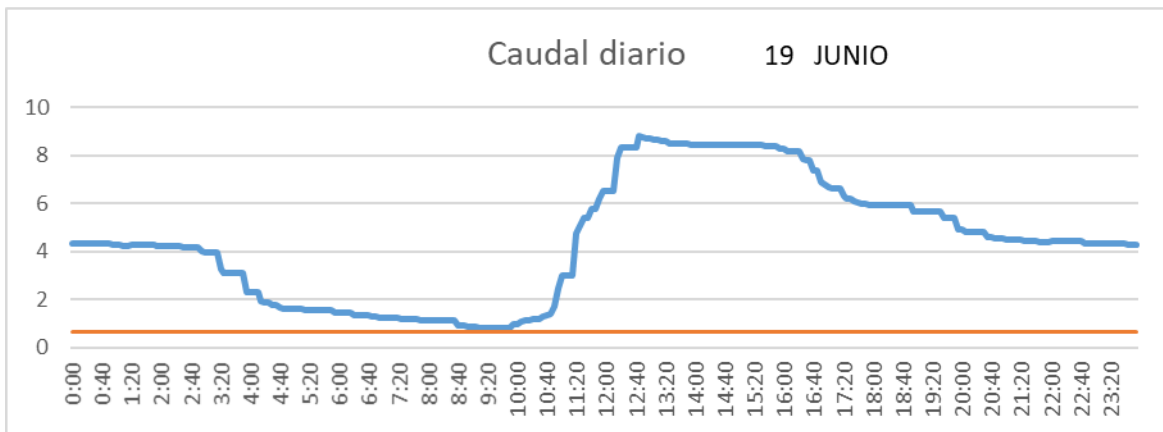
SAN LORENZO PARRILLA



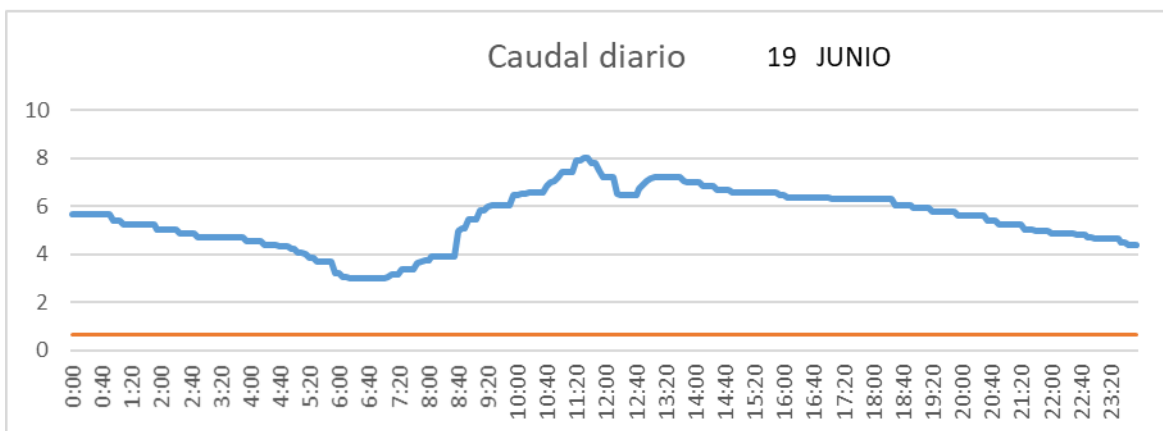
SALIDA TOBA



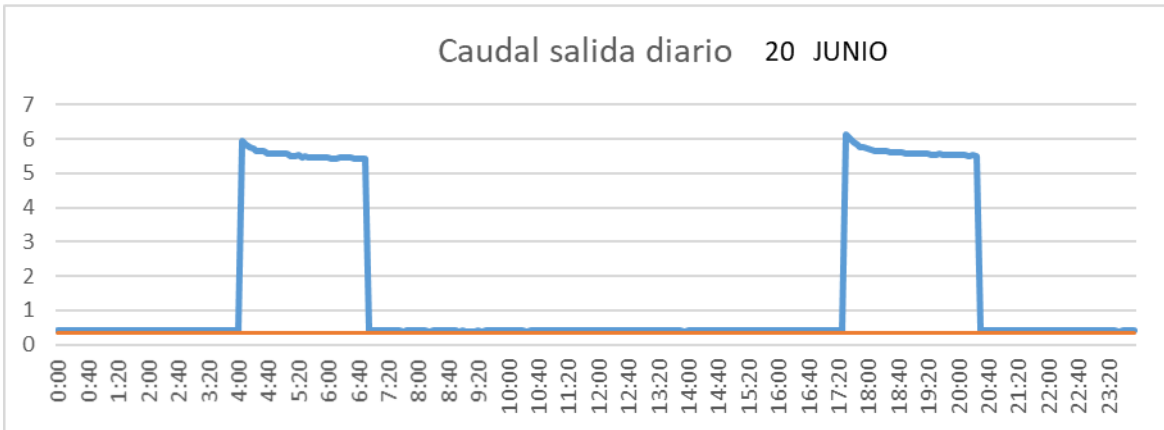
CUENCA



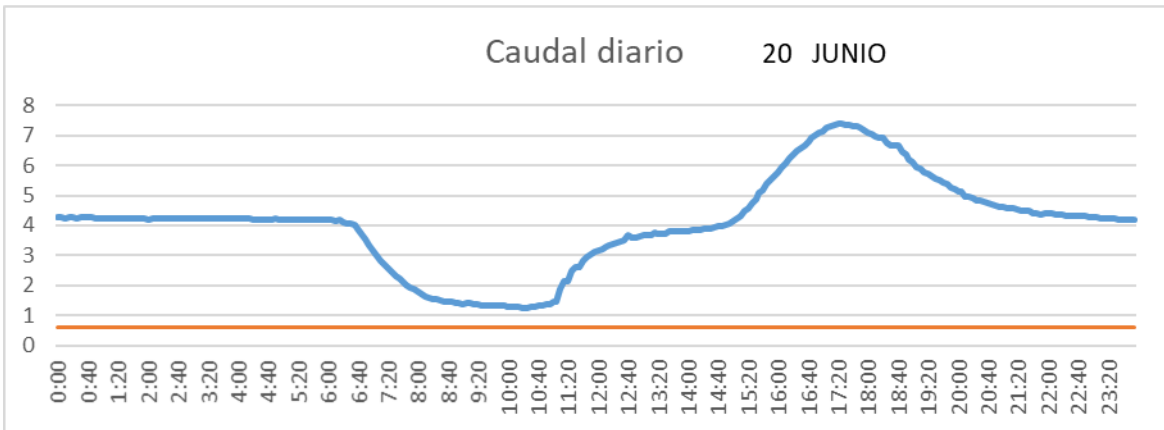
SAN LORENZO PARRILLA



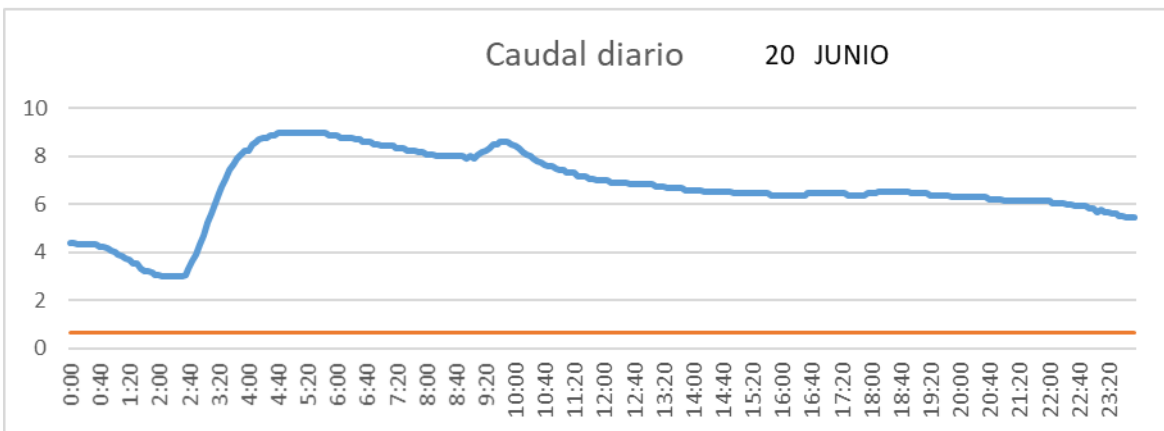
SALIDA TOBA



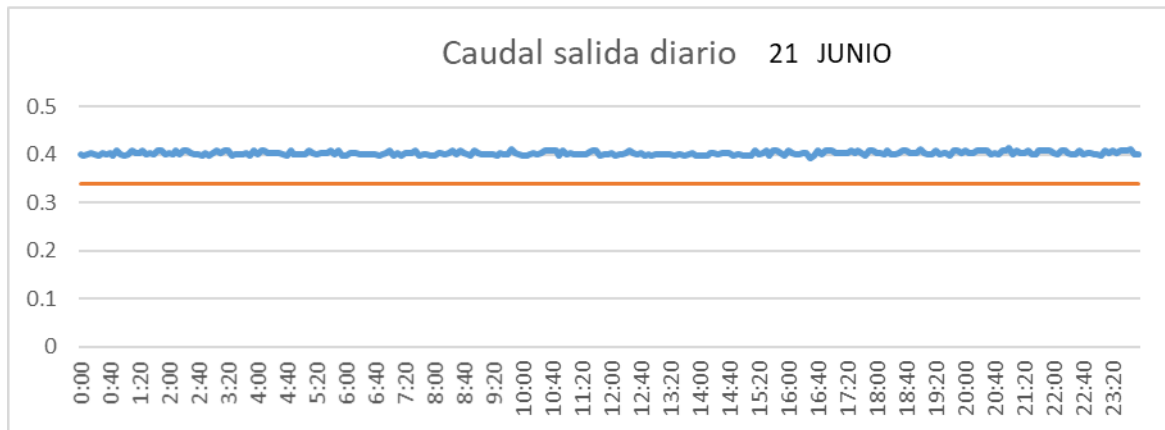
CUENCA



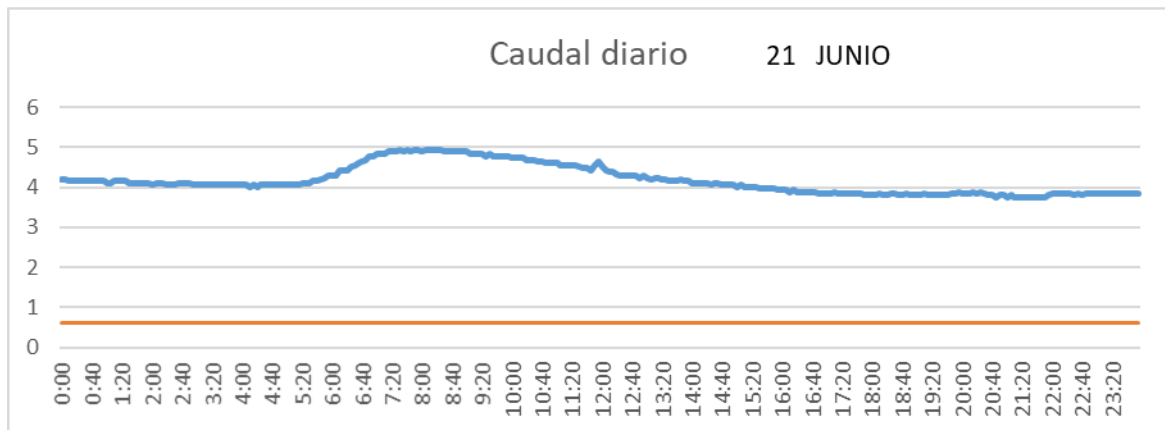
SAN LORENZO PARRILLA



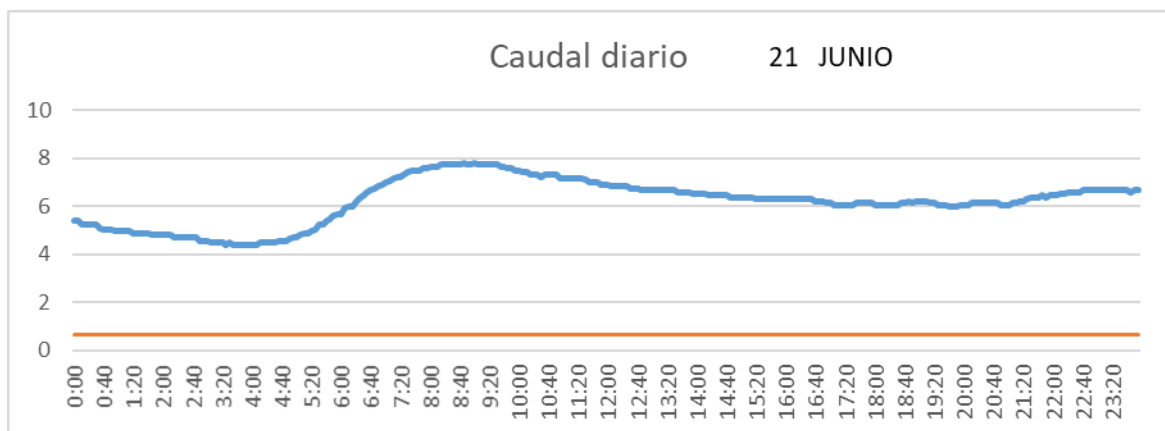
SALIDA TOBA



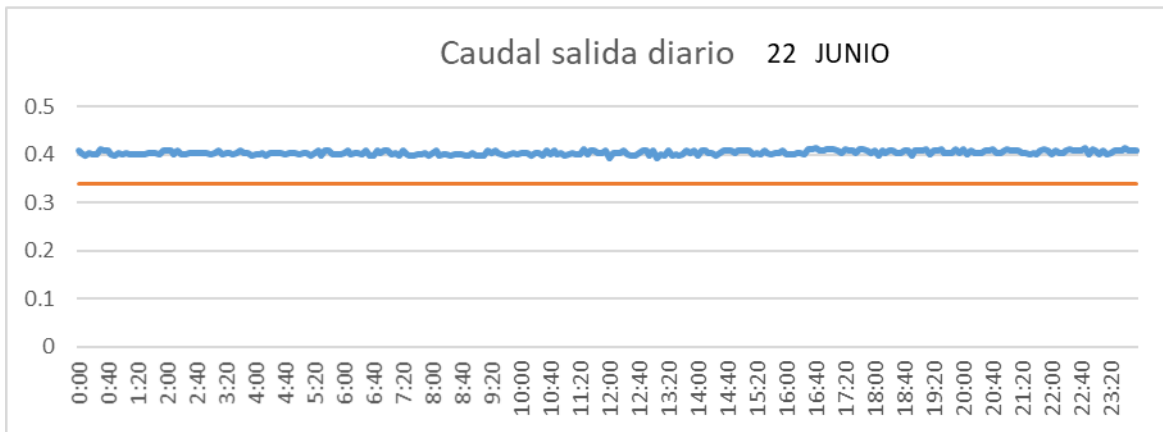
CUENCA



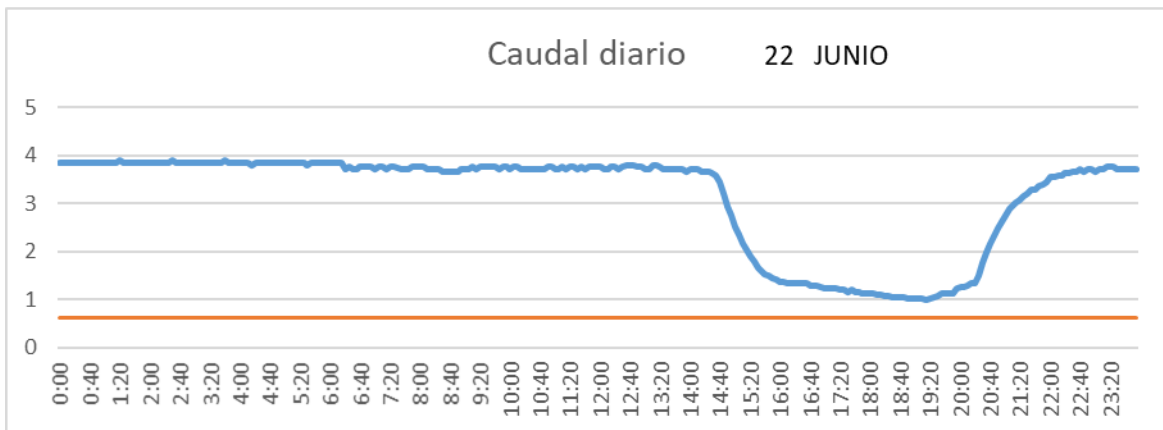
SAN LORENZO PARRILLA



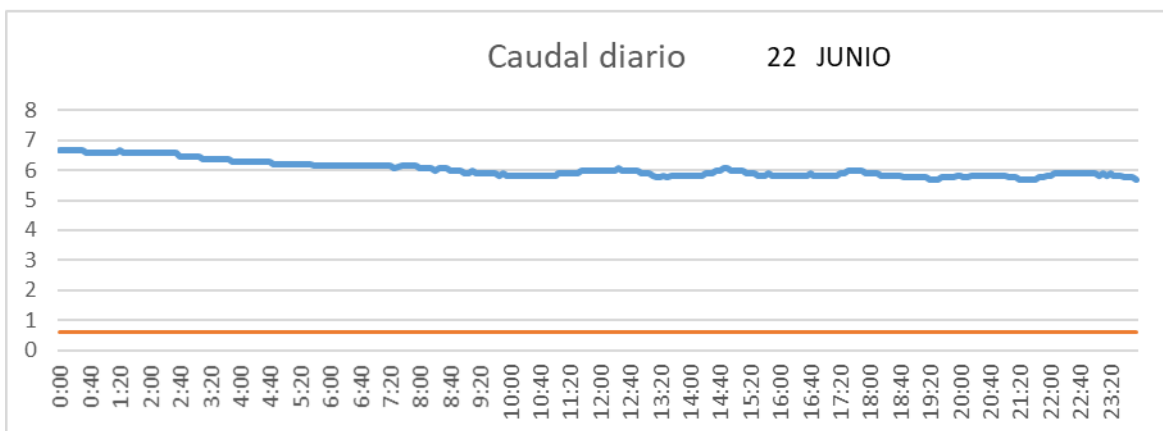
SALIDA TOBA



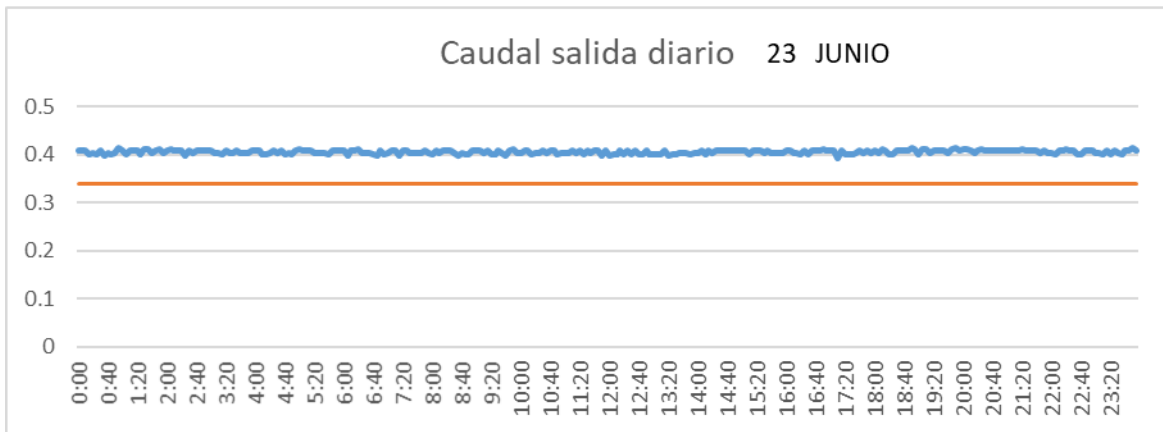
CUENCA



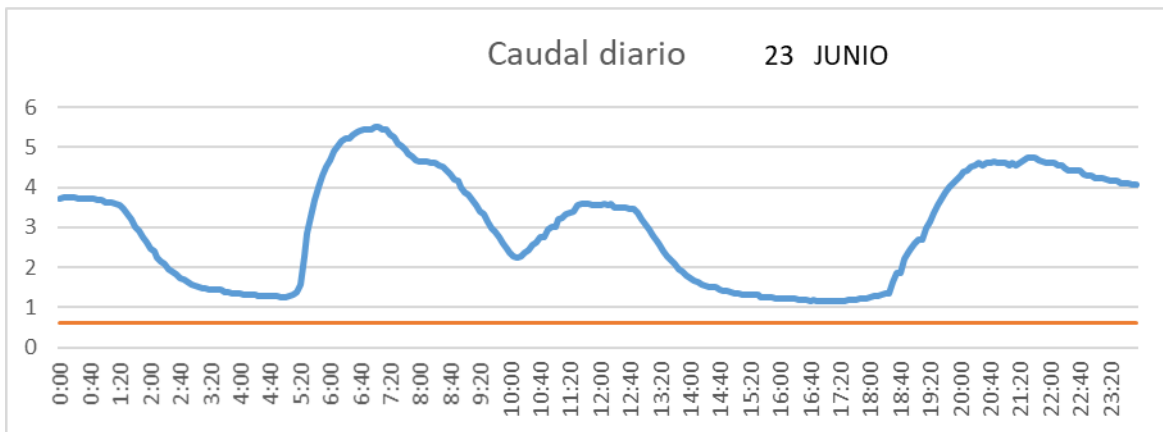
SAN LORENZO PARRILLA



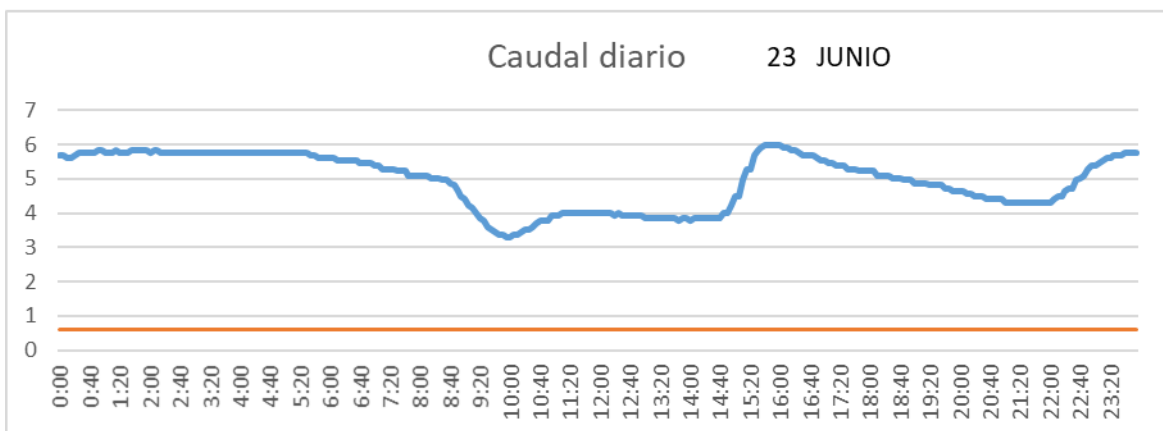
SALIDA TOBA



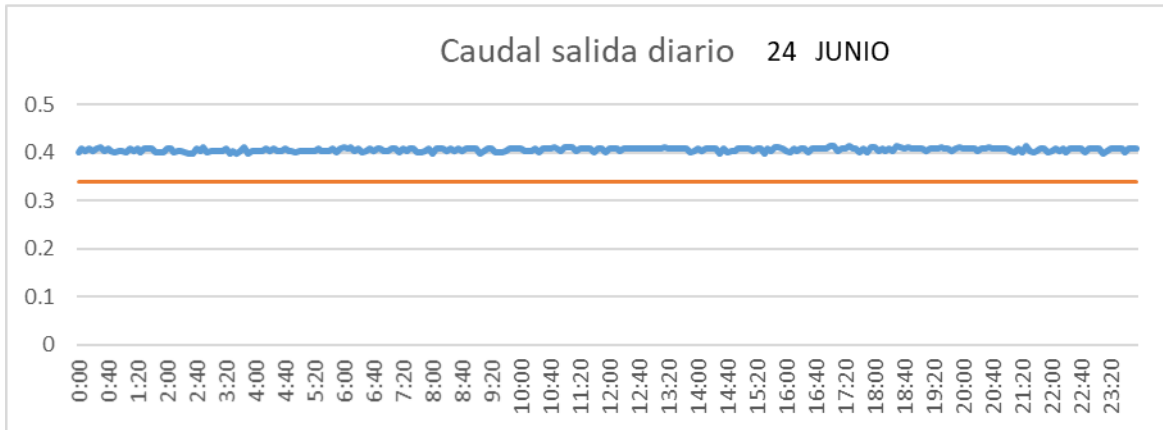
CUENCA



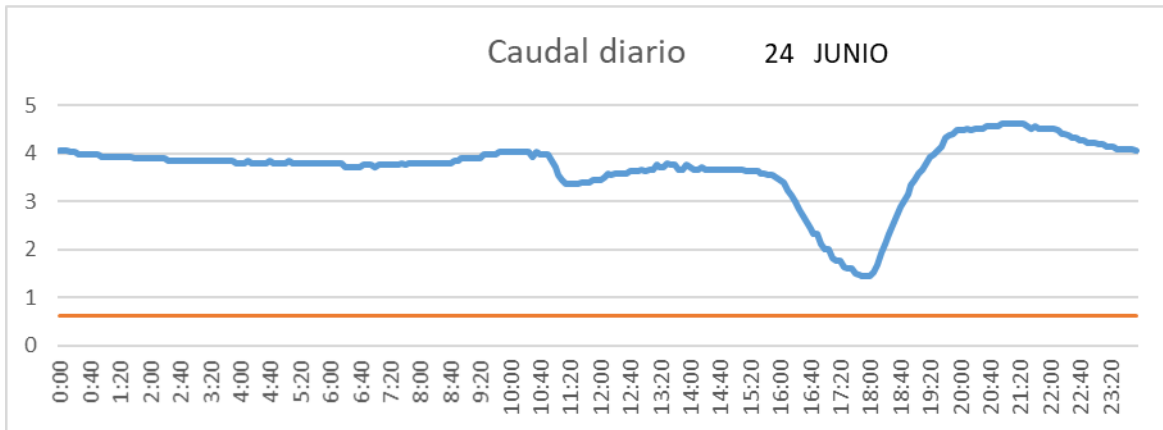
SAN LORENZO PARRILLA



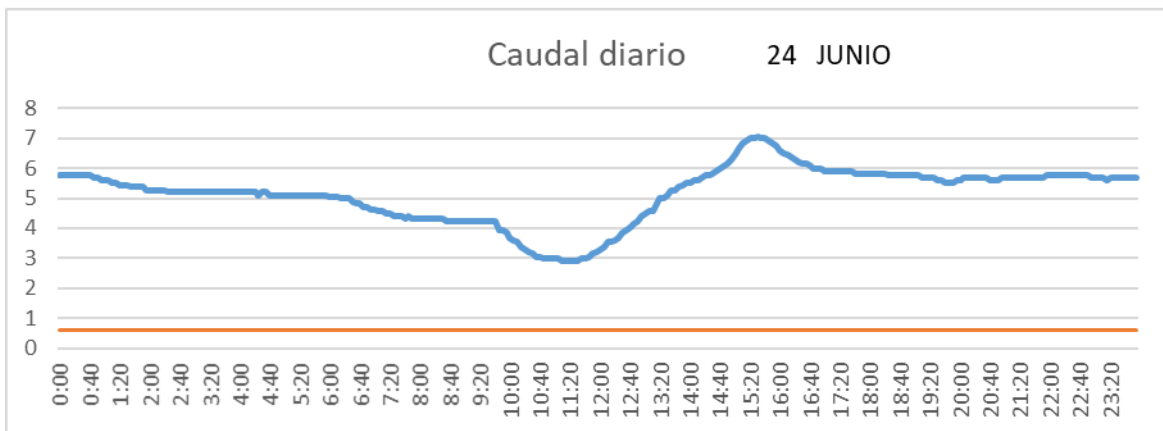
SALIDA TOBA



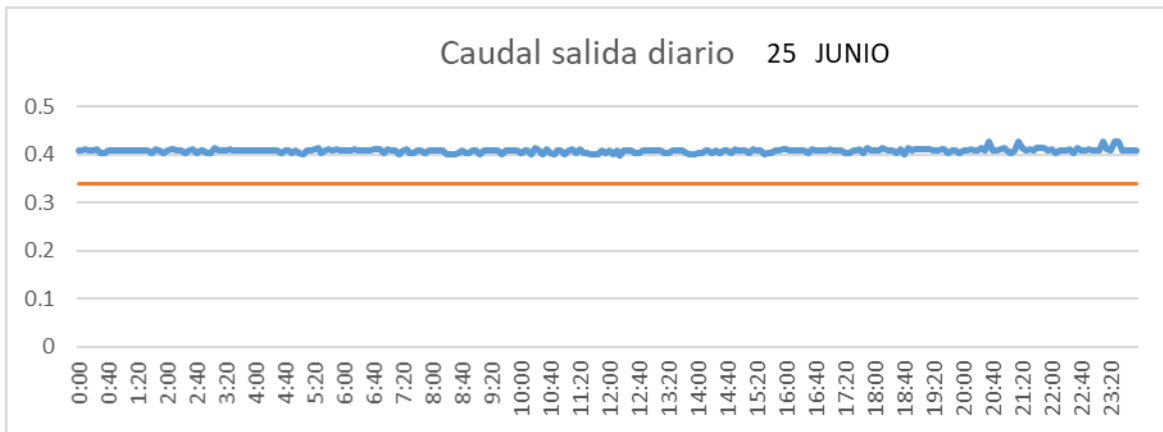
CUENCA



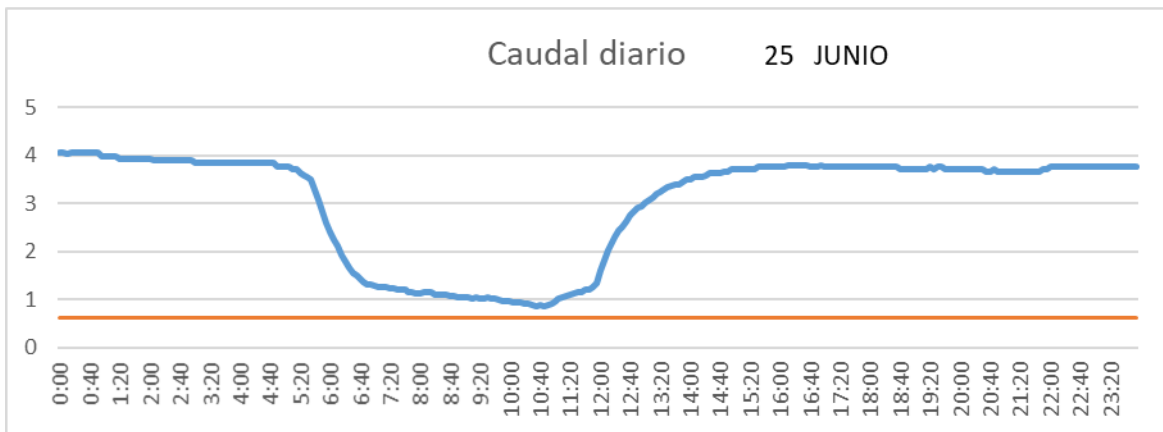
SAN LORENZO PARRILLA



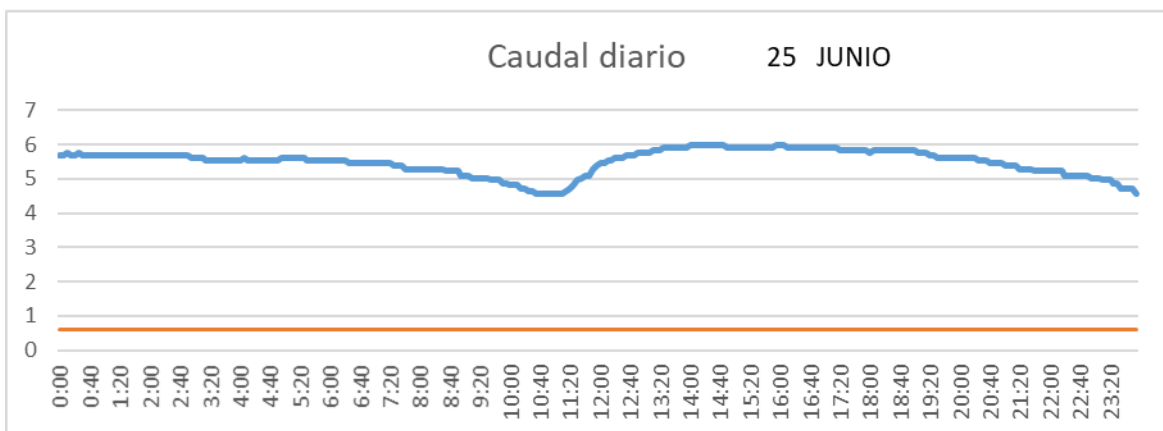
SALIDA TOBA



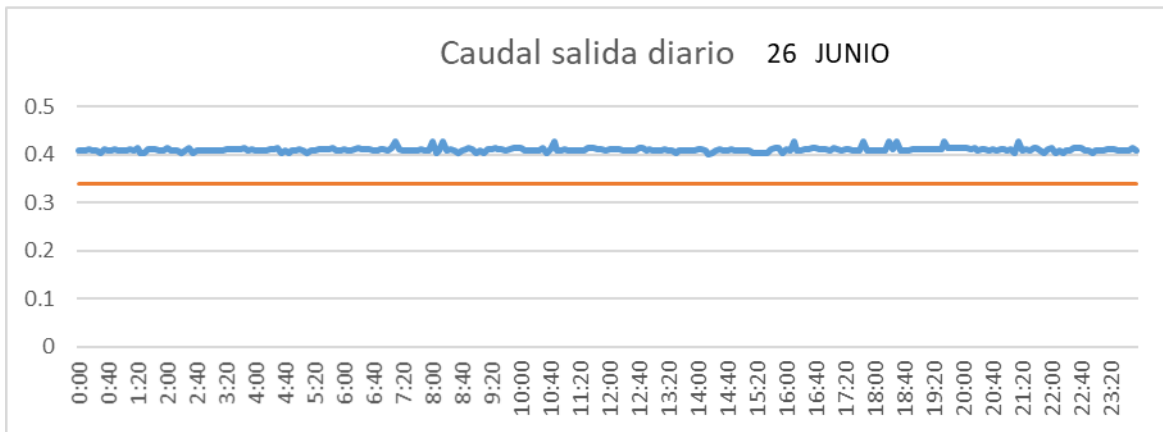
CUENCA



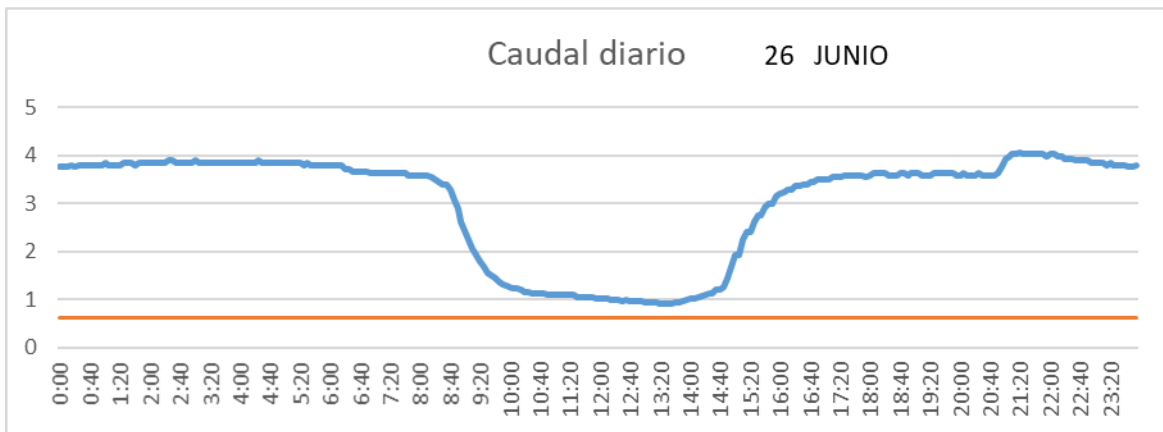
SAN LORENZO PARRILLA



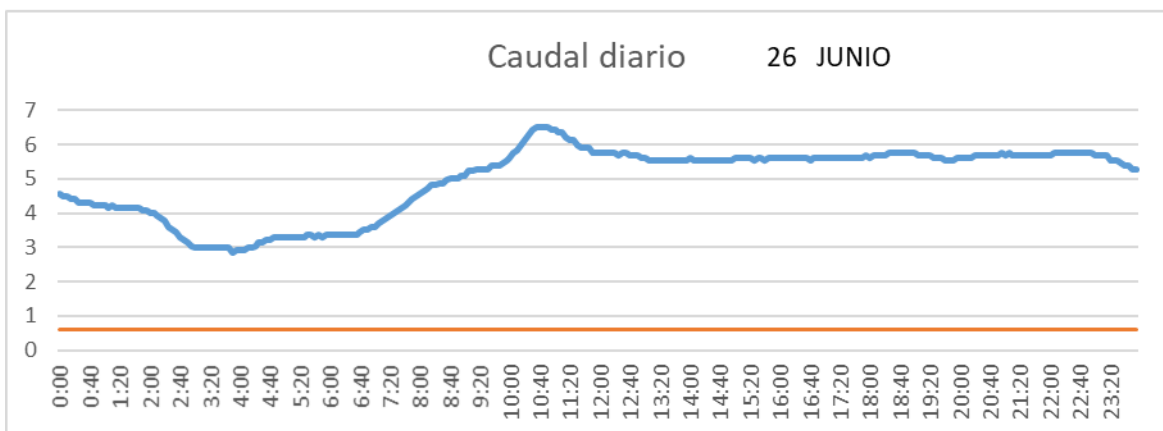
SALIDA TOBA



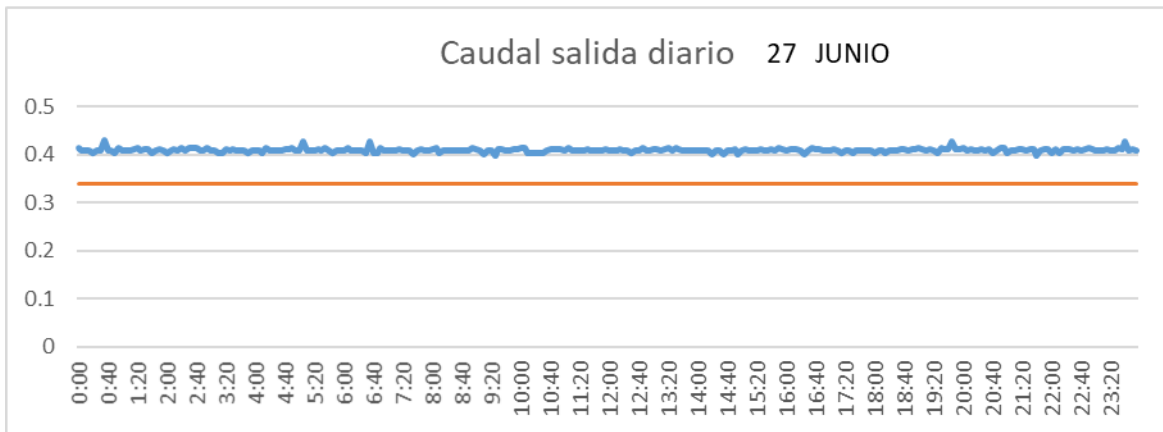
CUENCA



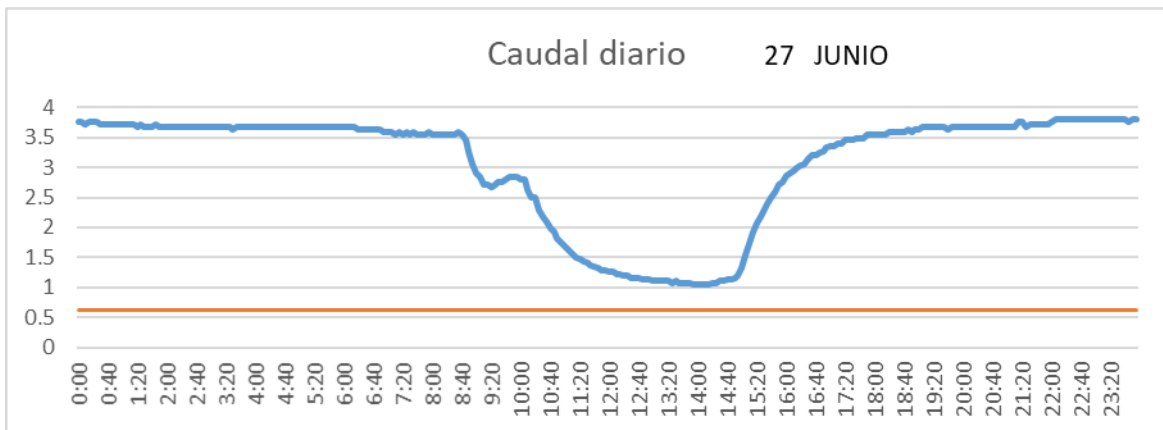
SAN LORENZO PARRILLA



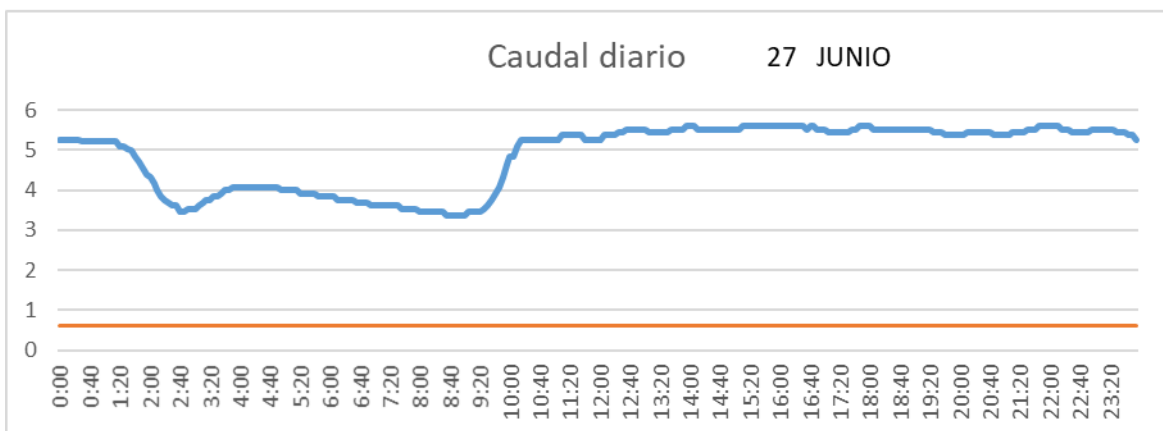
SALIDA TOBA



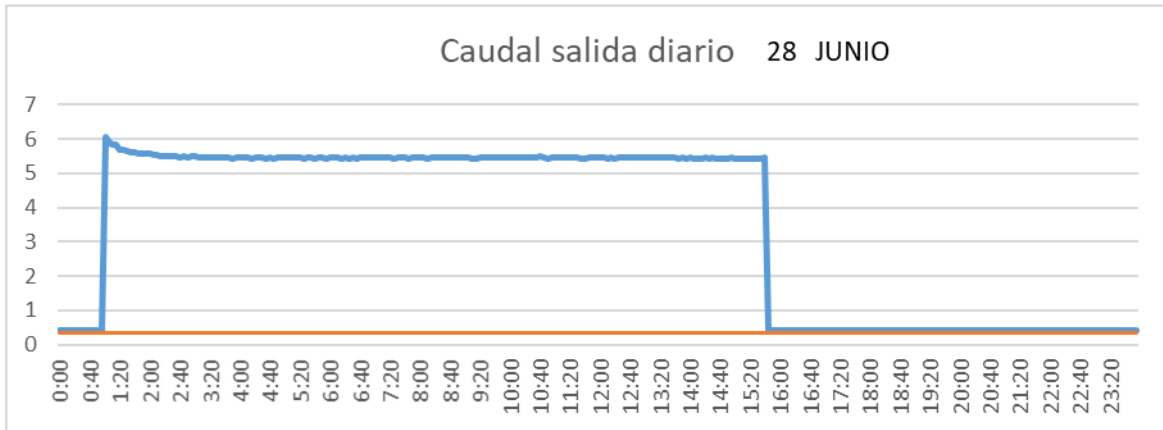
CUENCA



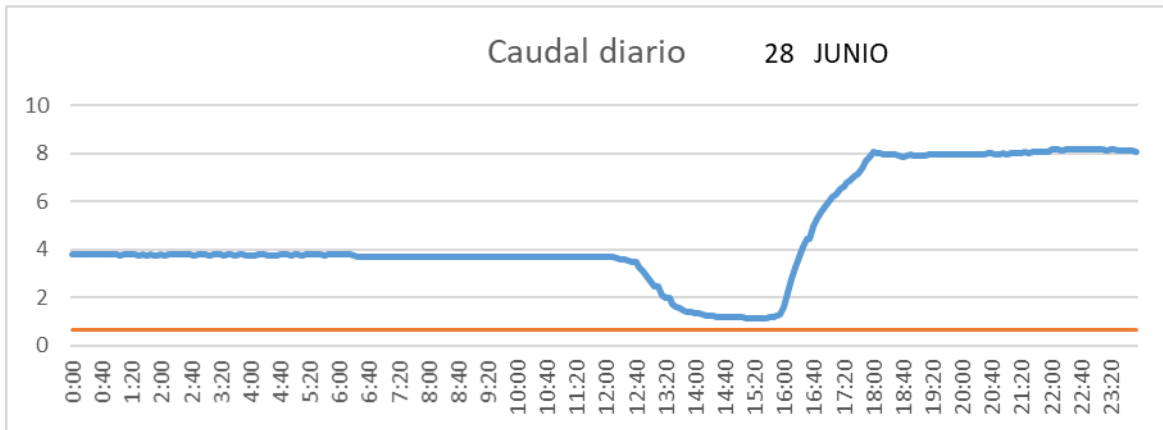
SAN LORENZO PARRILLA



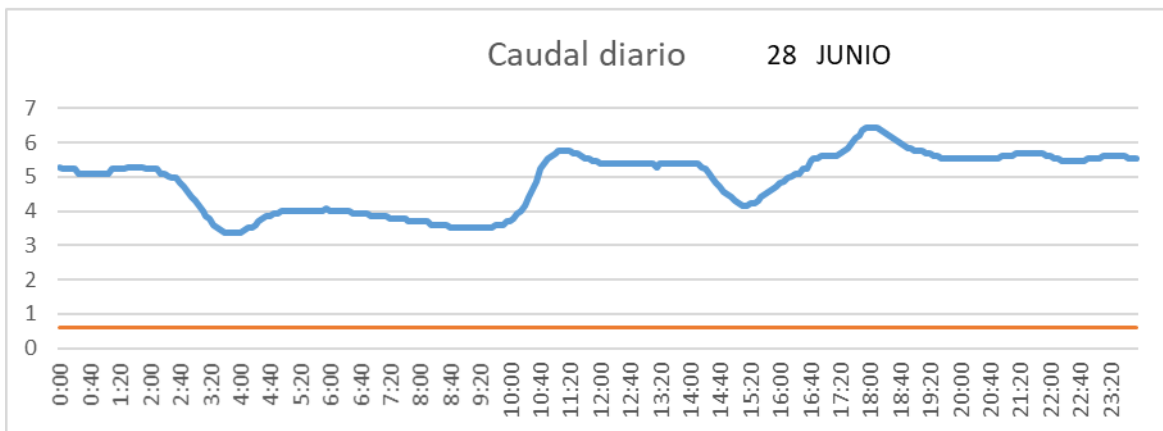
SALIDA TOBA



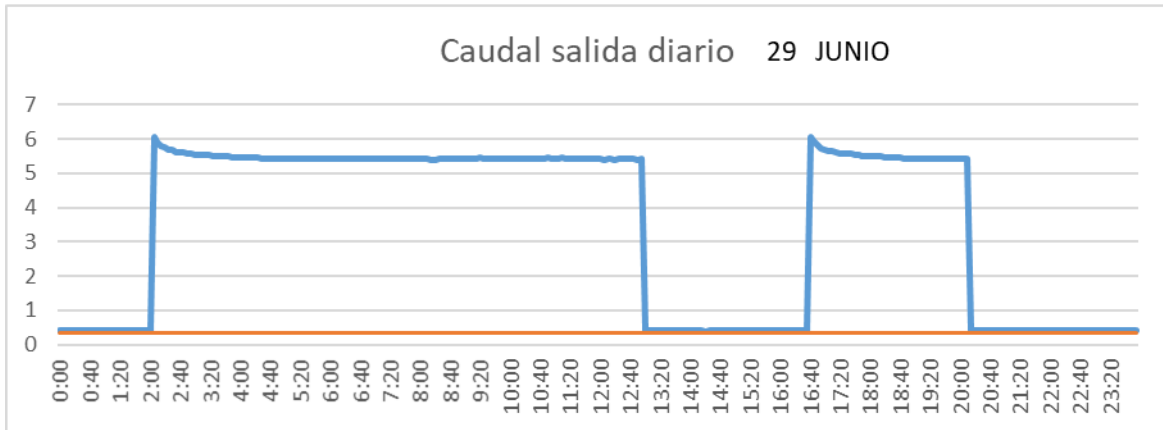
CUENCA



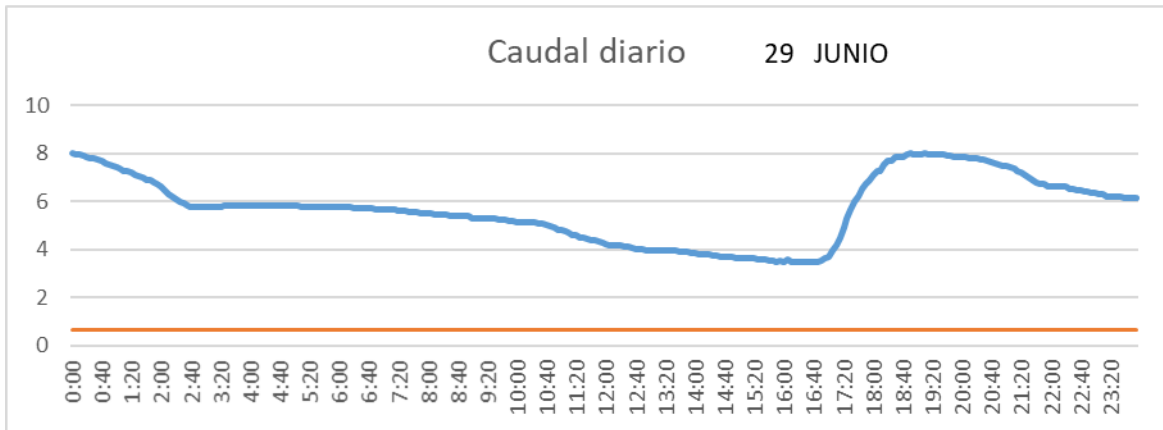
SAN LORENZO PARRILLA



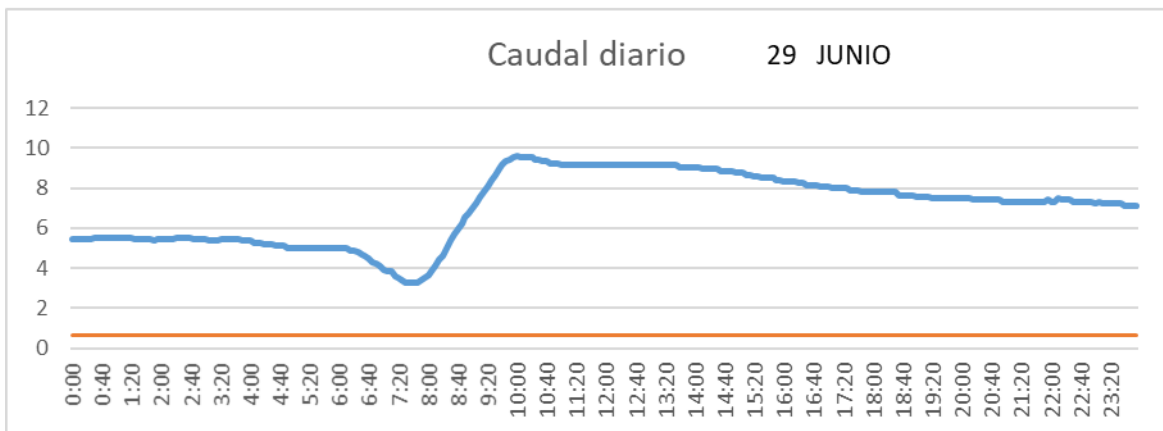
SALIDA TOBA



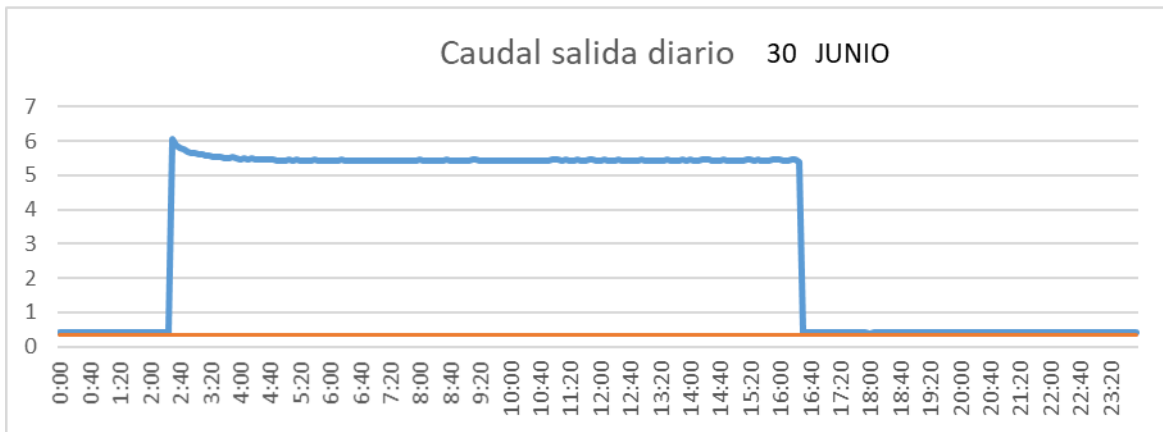
CUENCA



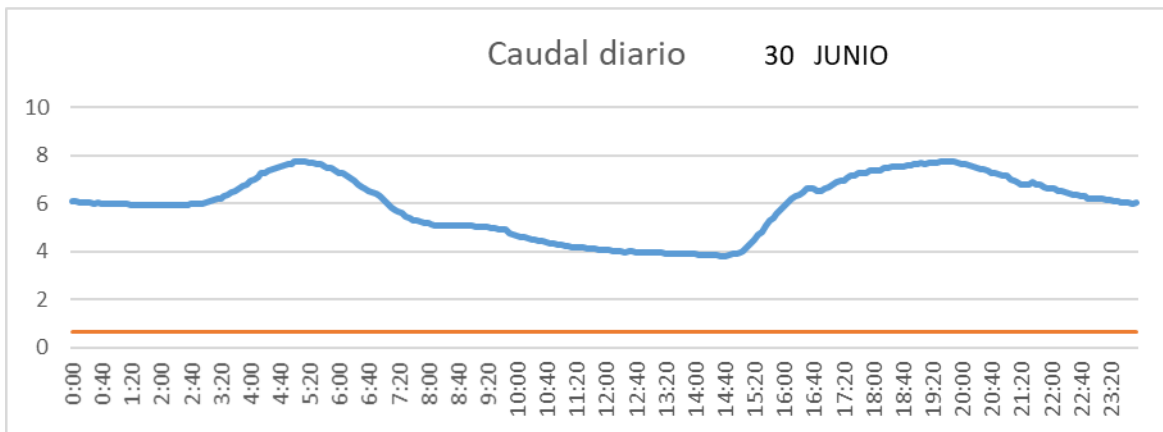
SAN LORENZO PARRILLA



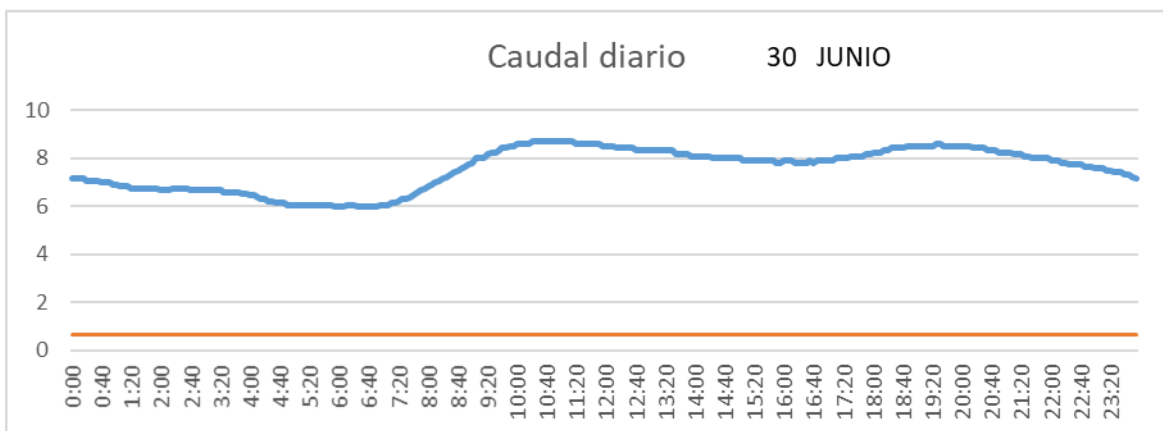
SALIDA TOBA



CUENCA

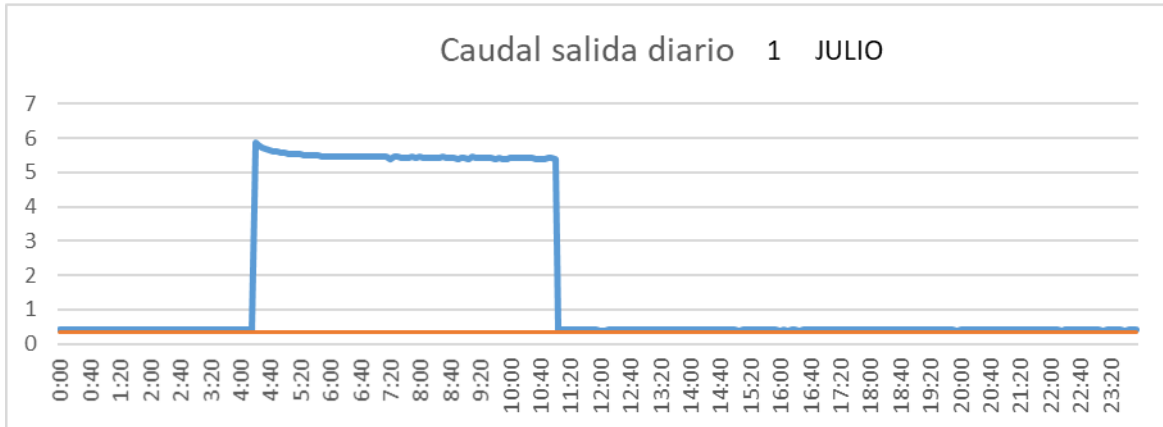


SAN LORENZO PARRILLA

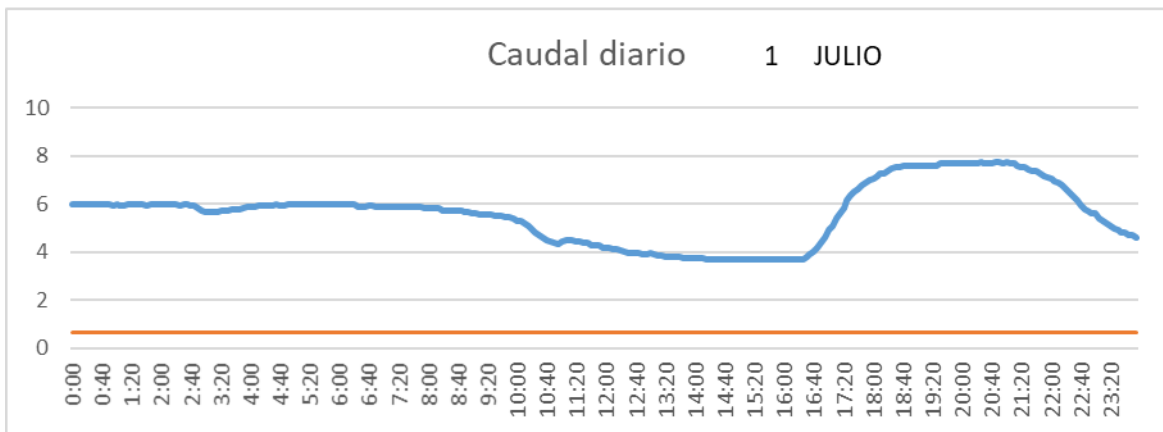


2.2.7 Julio

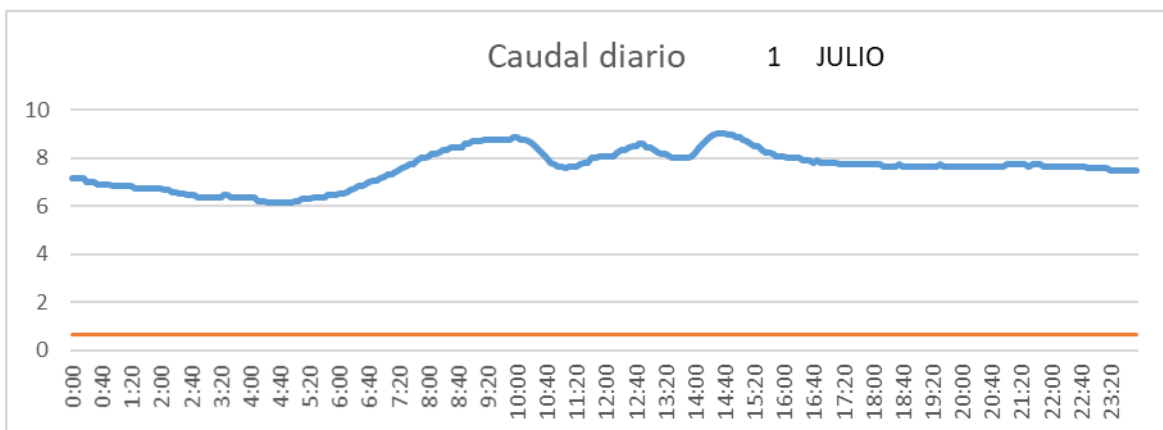
SALIDA TOBA



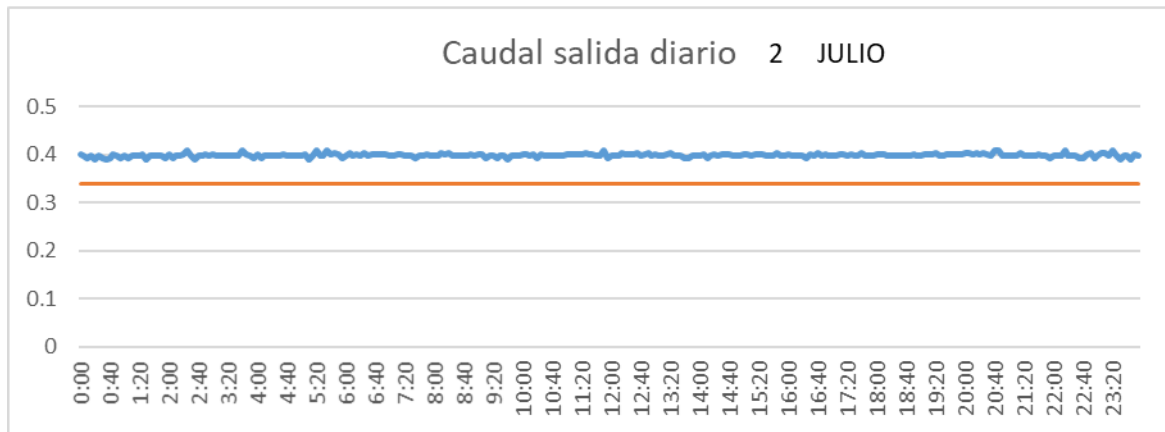
CUENCA



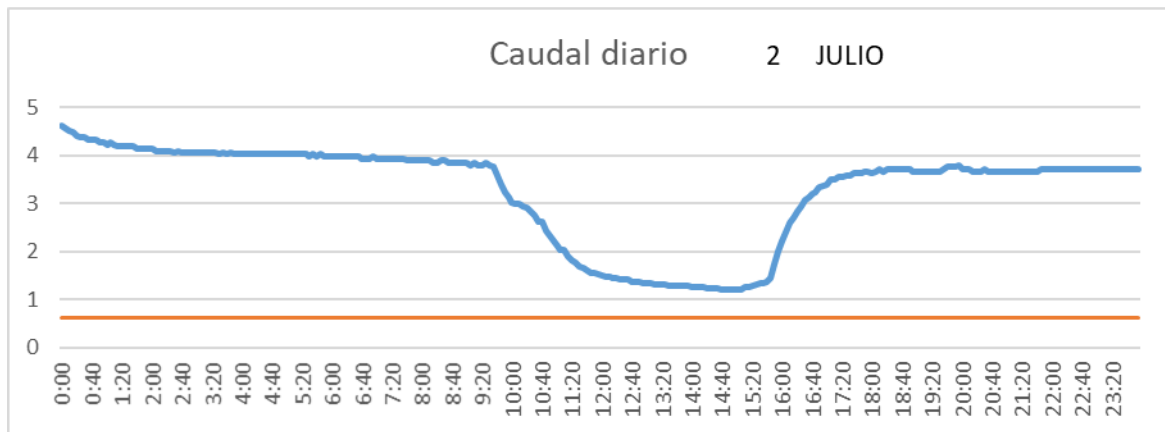
SAN LORENZO PARRILLA



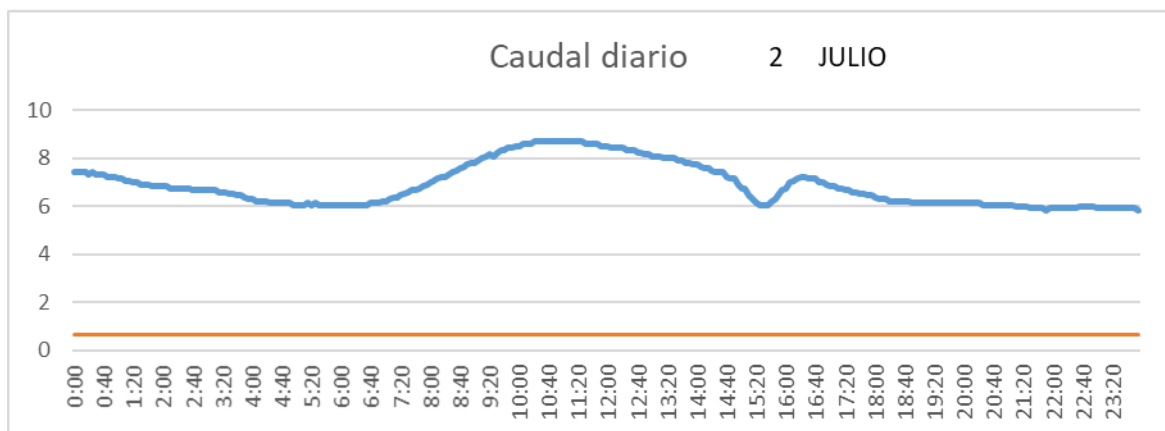
SALIDA TOBA



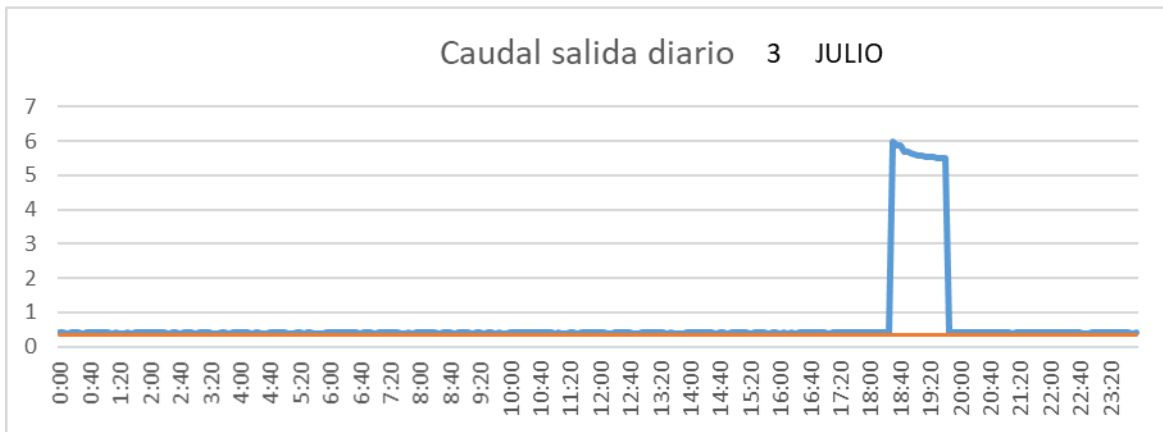
CUENCA



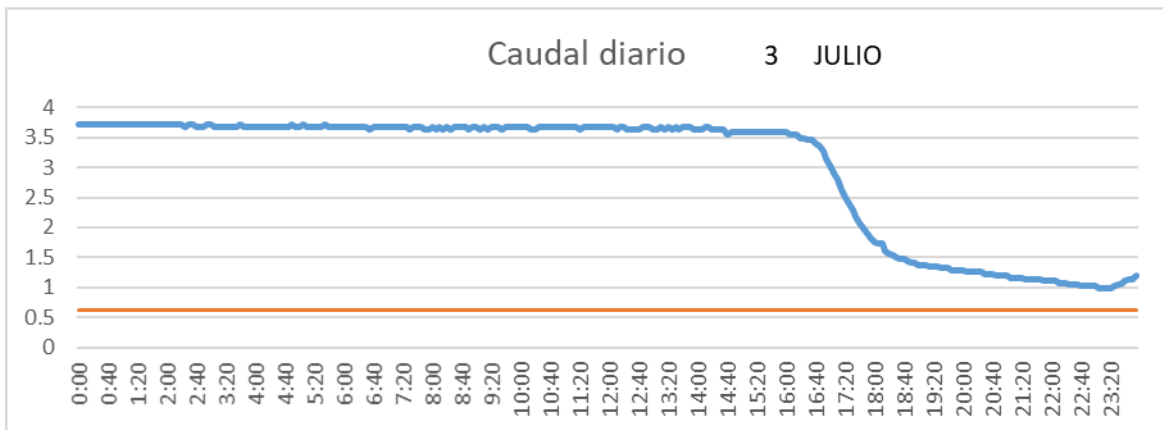
SAN LORENZO PARRILLA



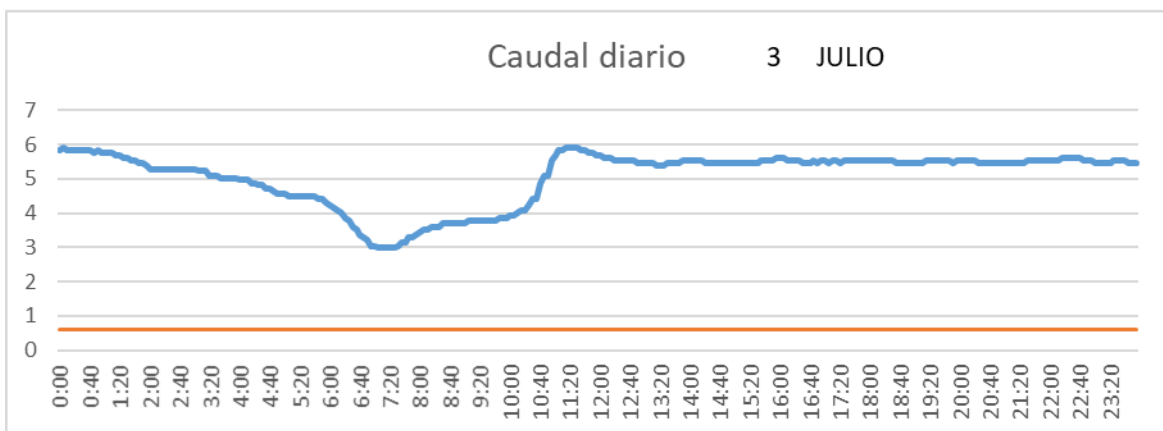
SALIDA TOBA



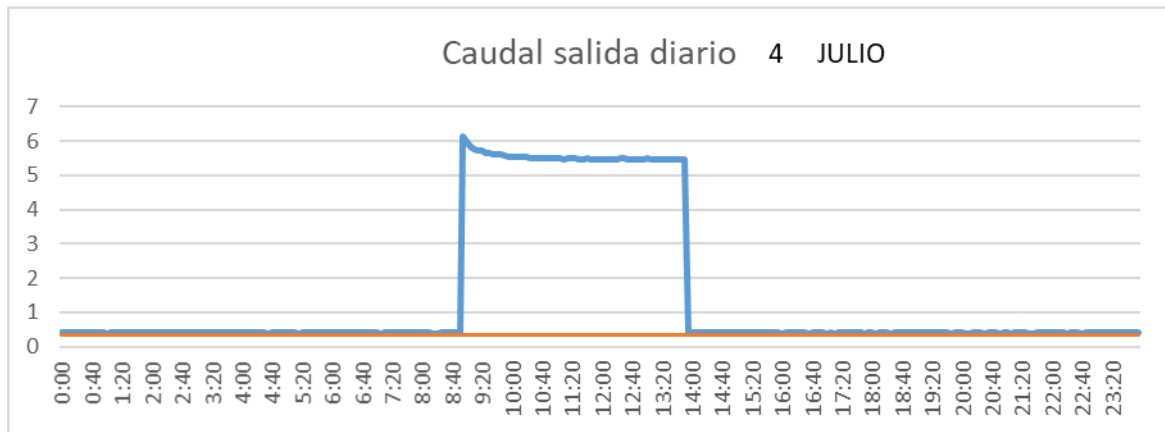
CUENCA



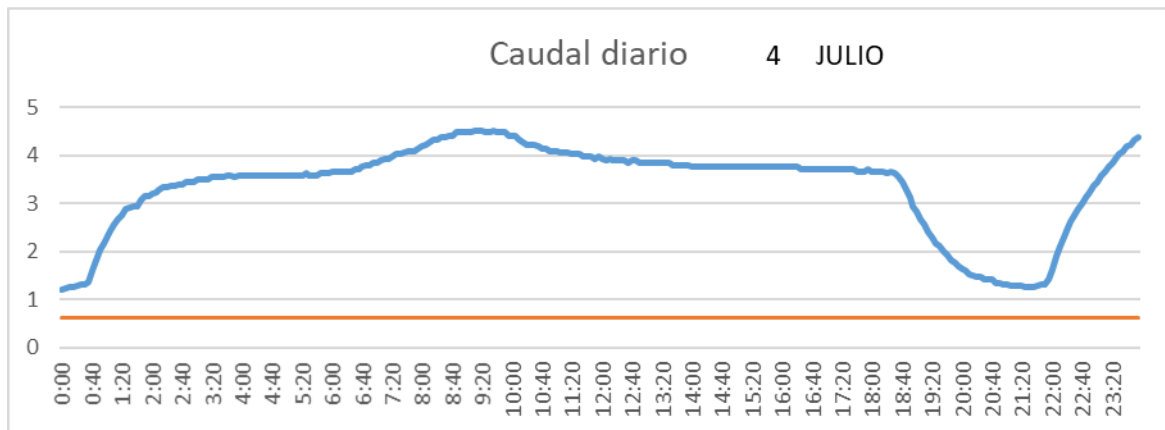
SAN LORENZO PARRILLA



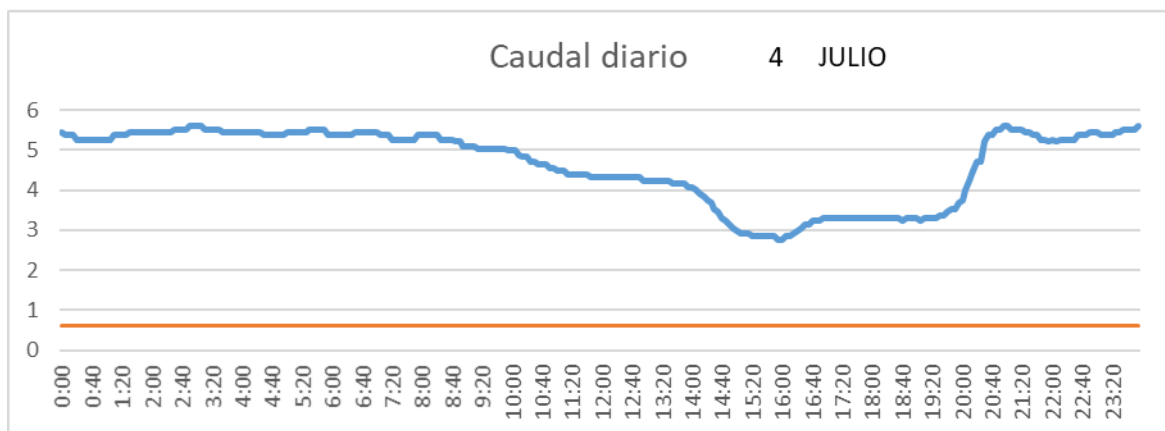
SALIDA TOBA



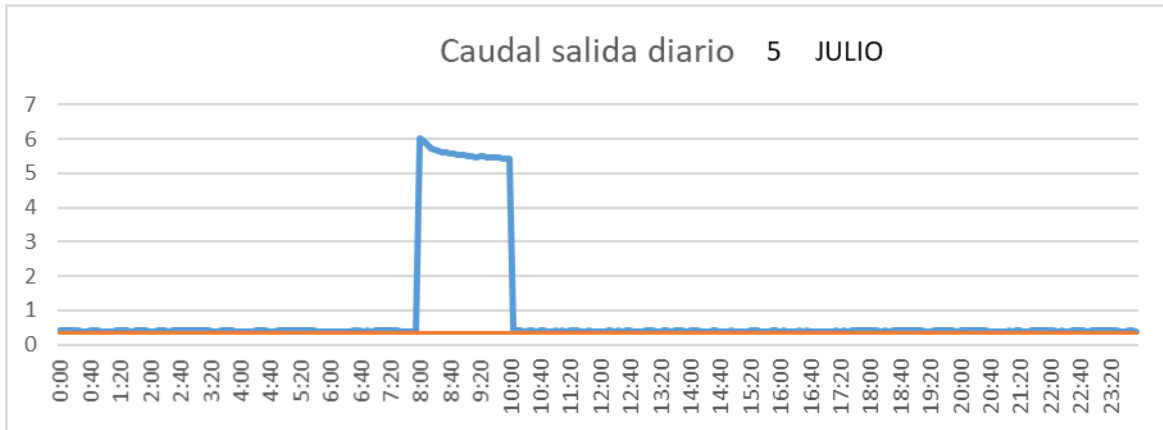
CUENCA



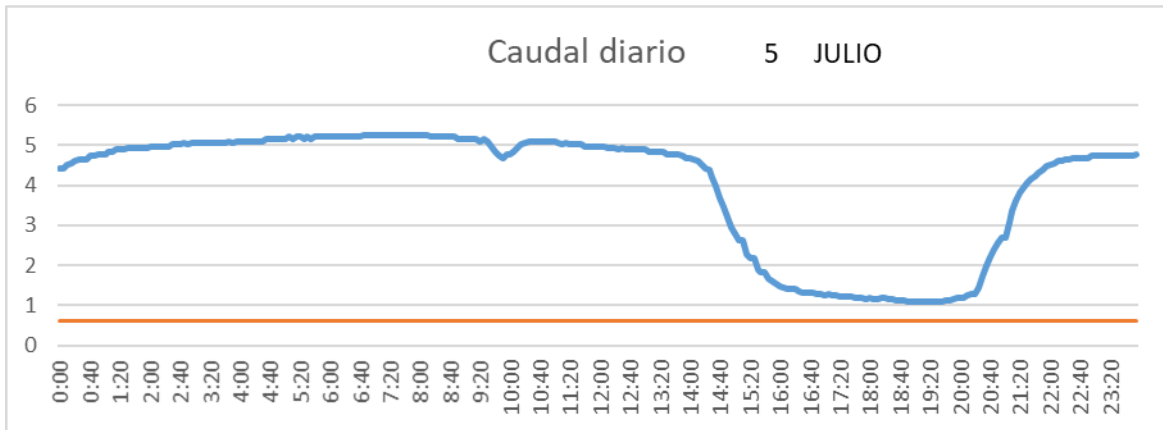
SAN LORENZO PARRILLA



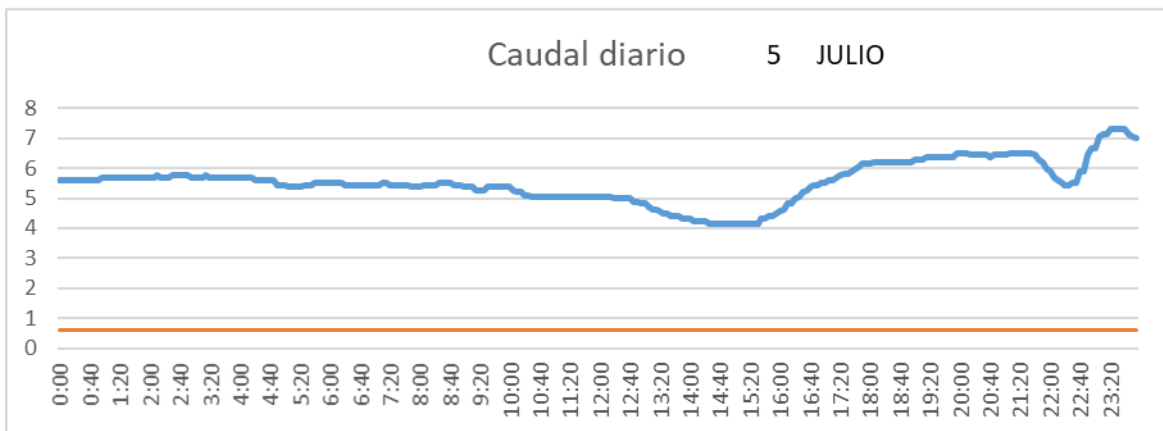
SALIDA TOBA



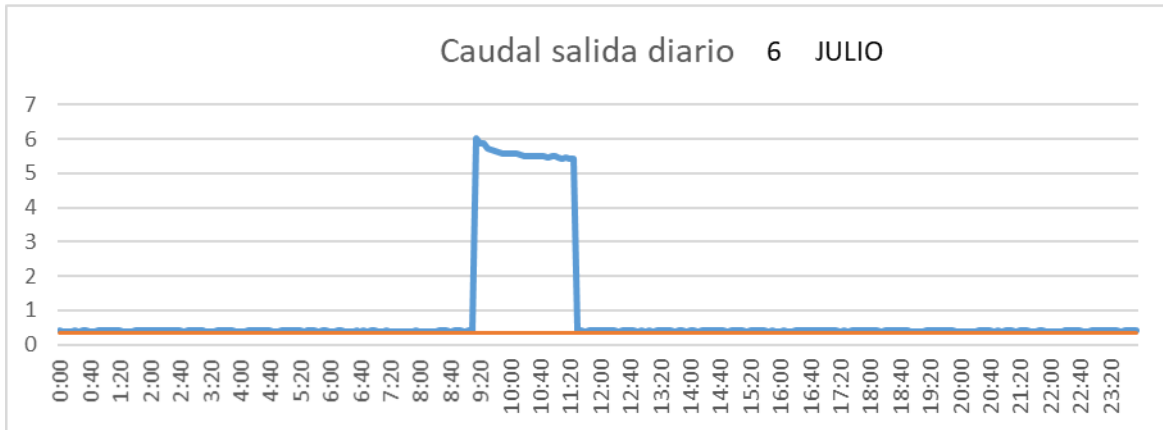
CUENCA



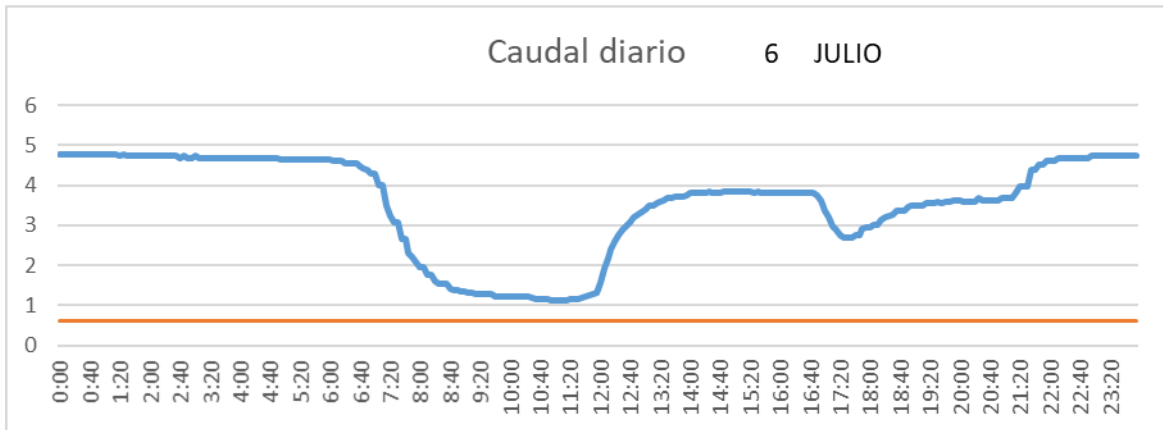
SAN LORENZO PARRILLA



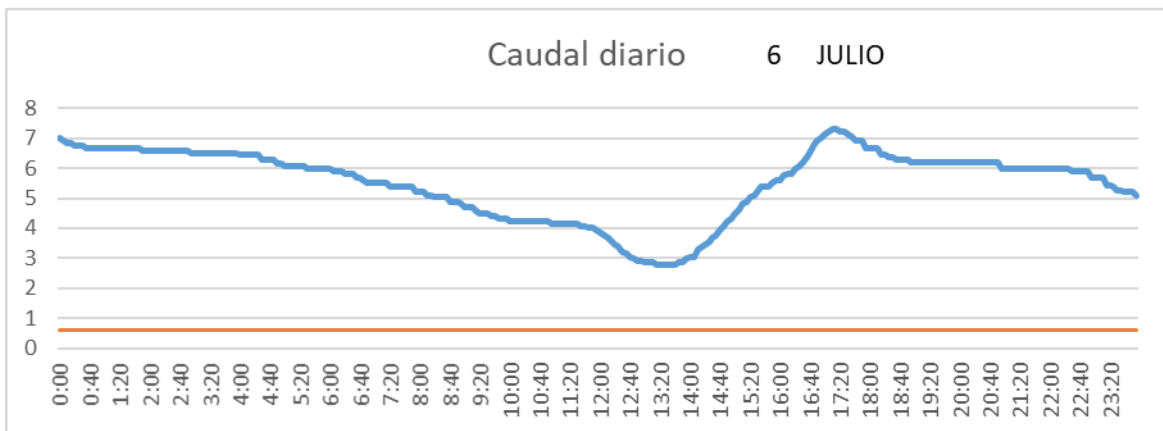
SALIDA TOBA



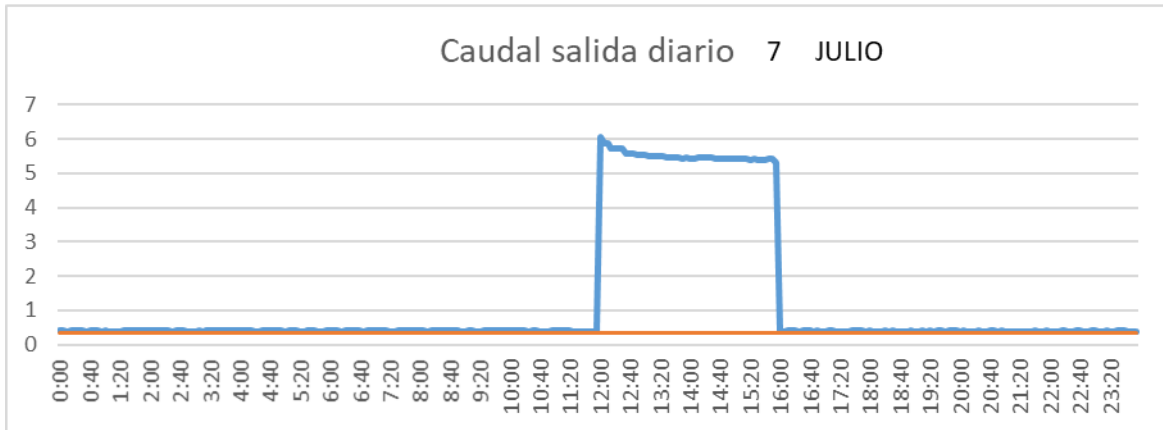
CUENCA



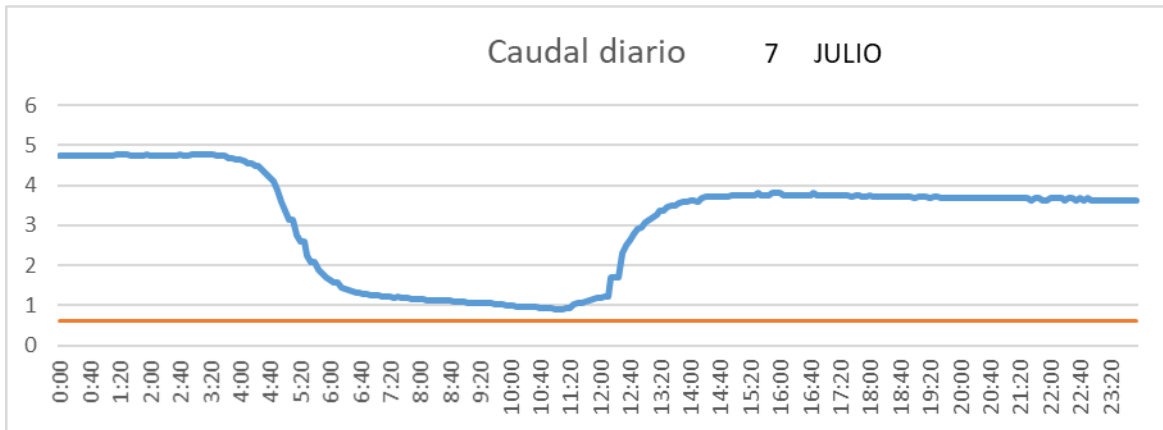
SAN LORENZO PARRILLA



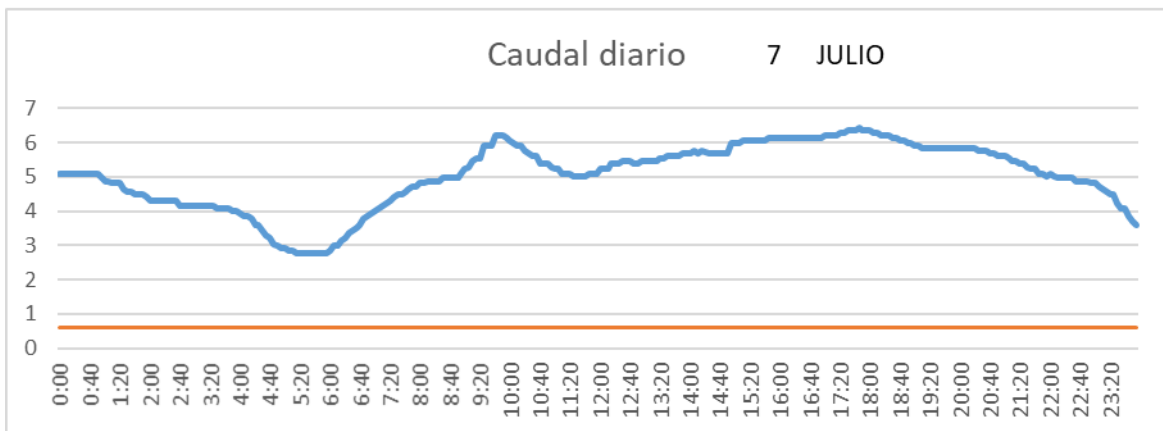
SALIDA TOBA



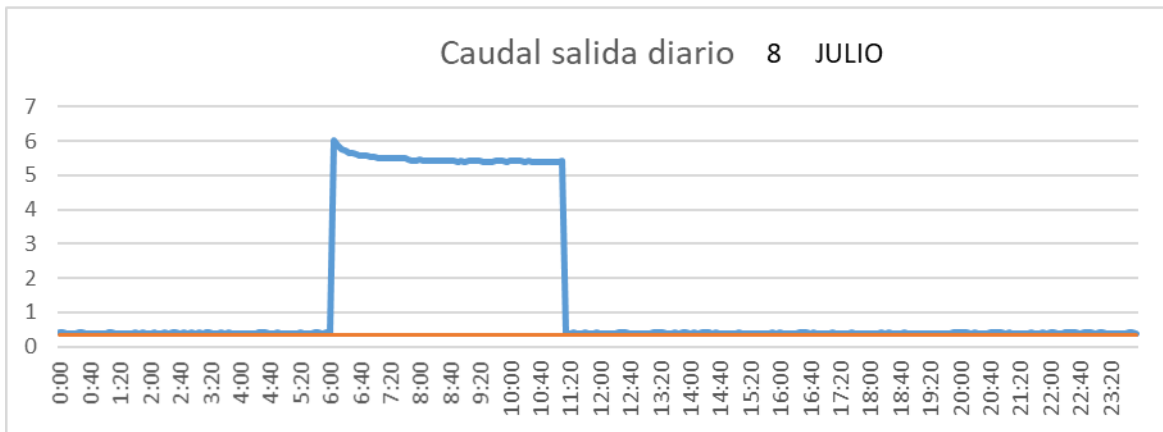
CUENCA



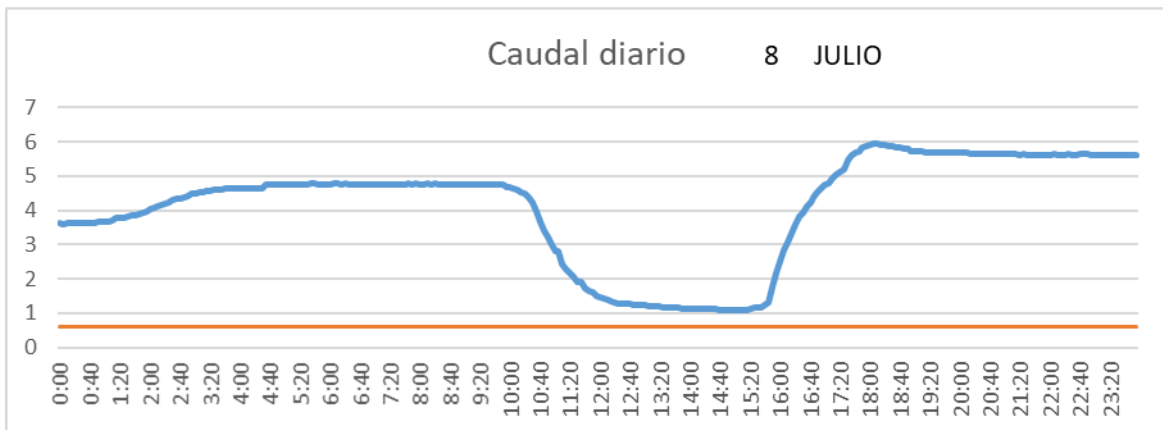
SAN LORENZO PARRILLA



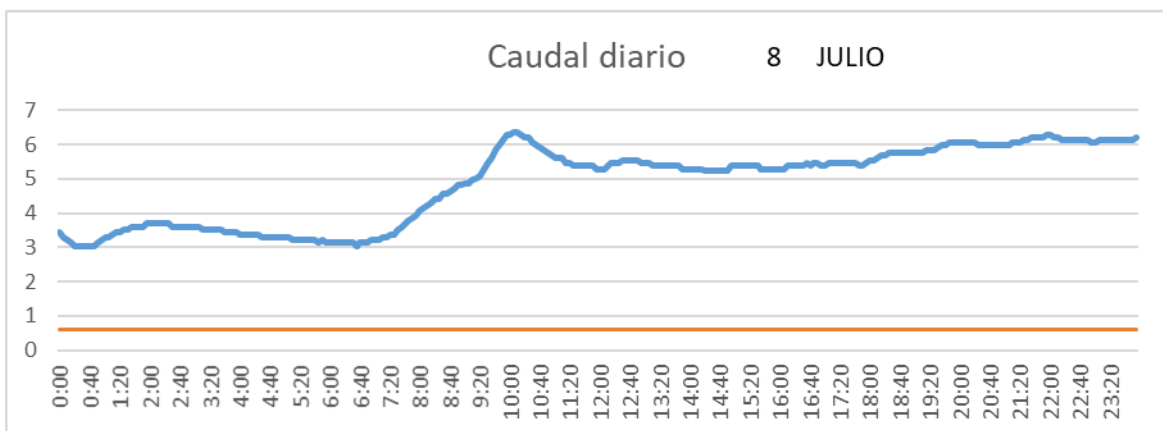
SALIDA TOBA



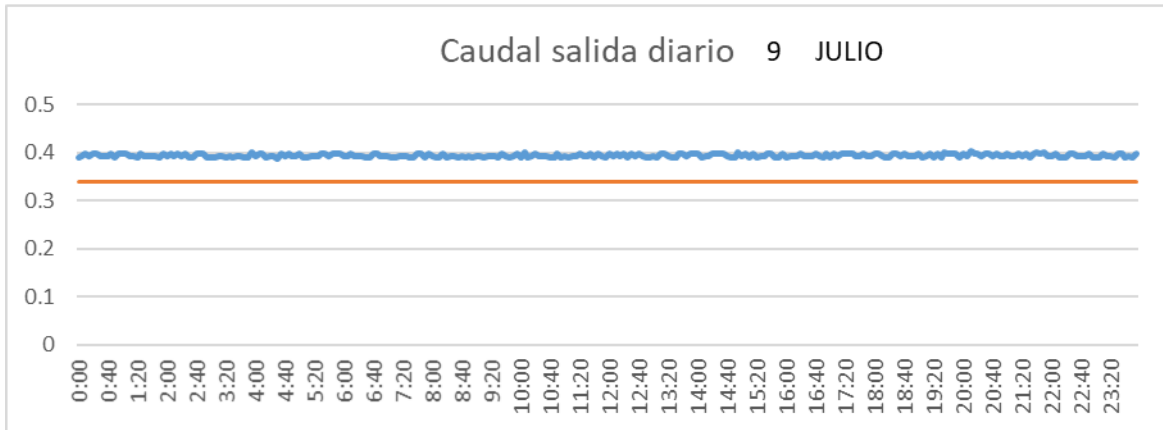
CUENCA



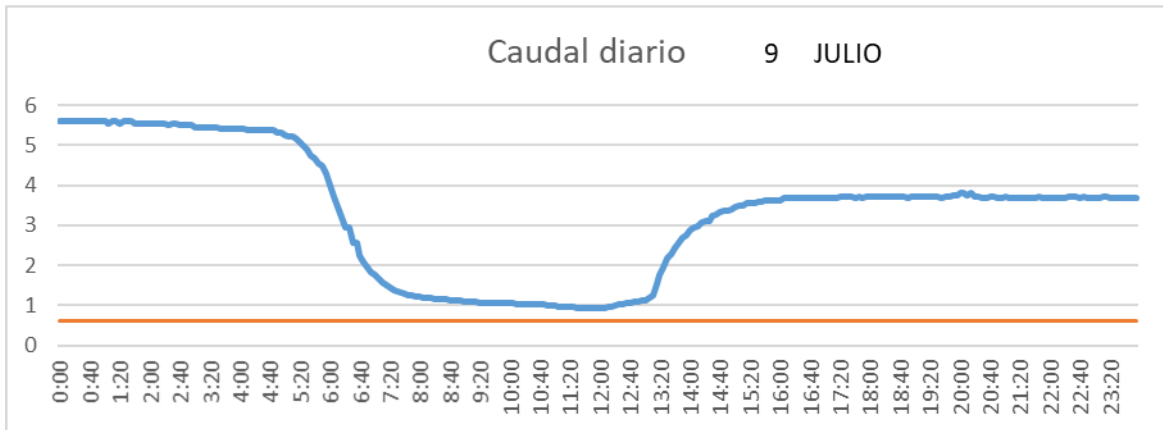
SAN LORENZO PARRILLA



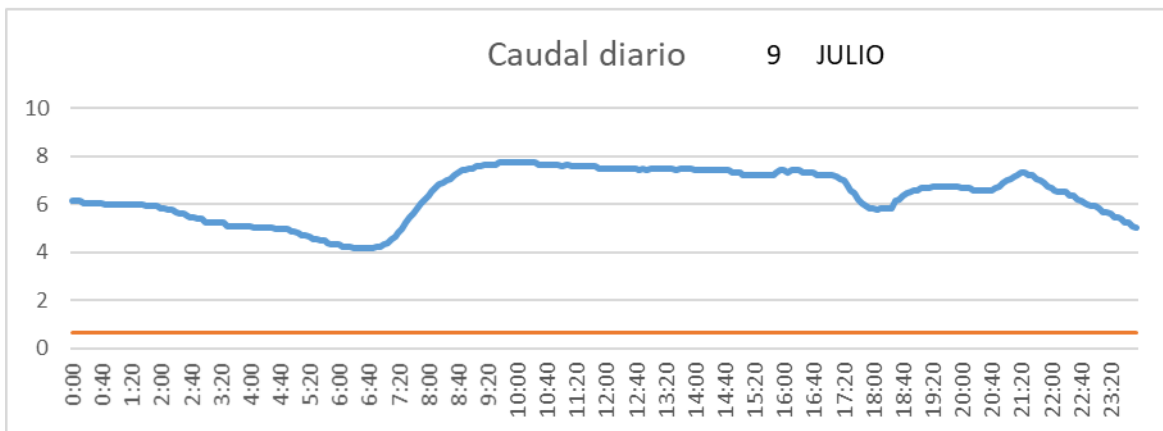
SALIDA TOBA



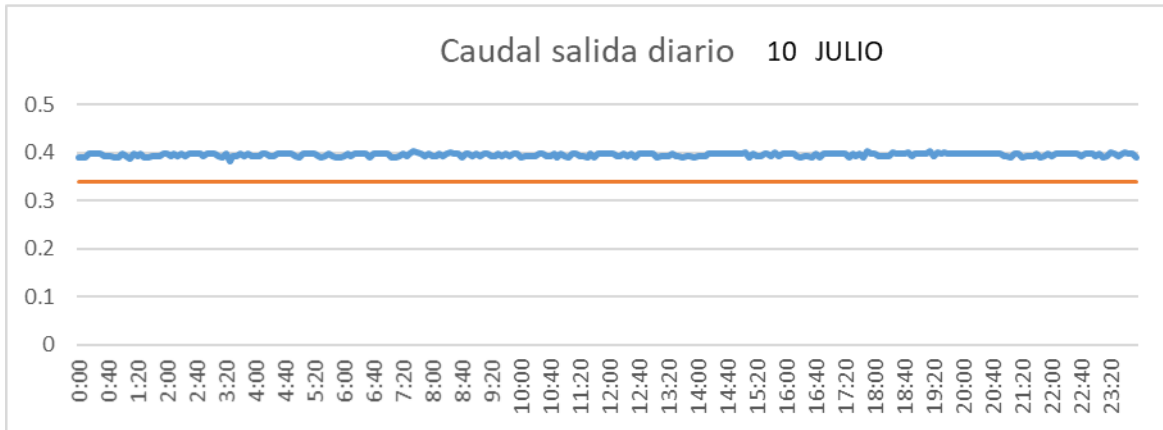
CUENCA



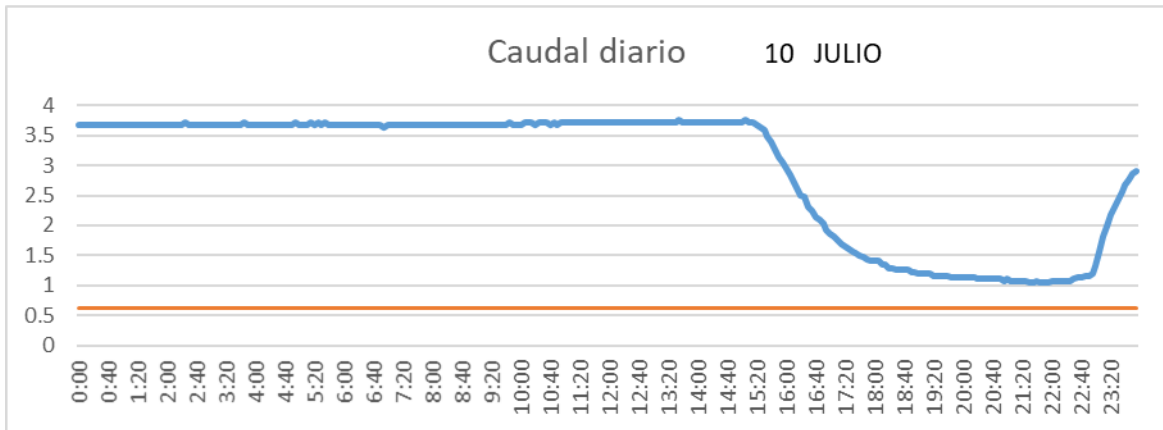
SAN LORENZO PARRILLA



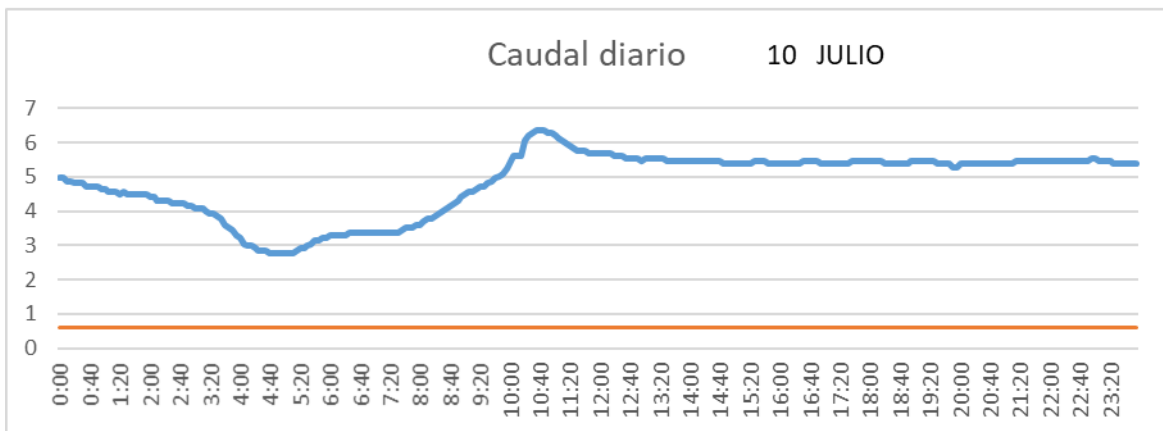
SALIDA TOBA



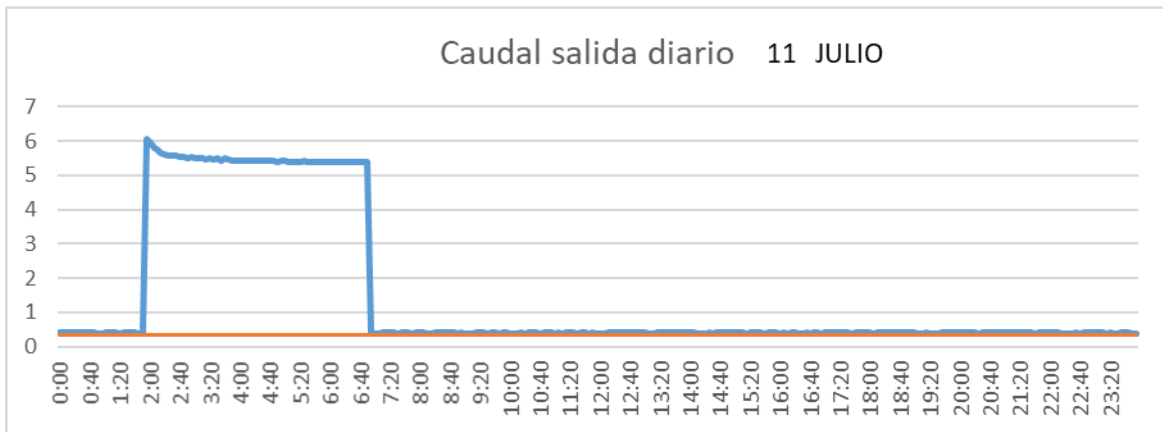
CUENCA



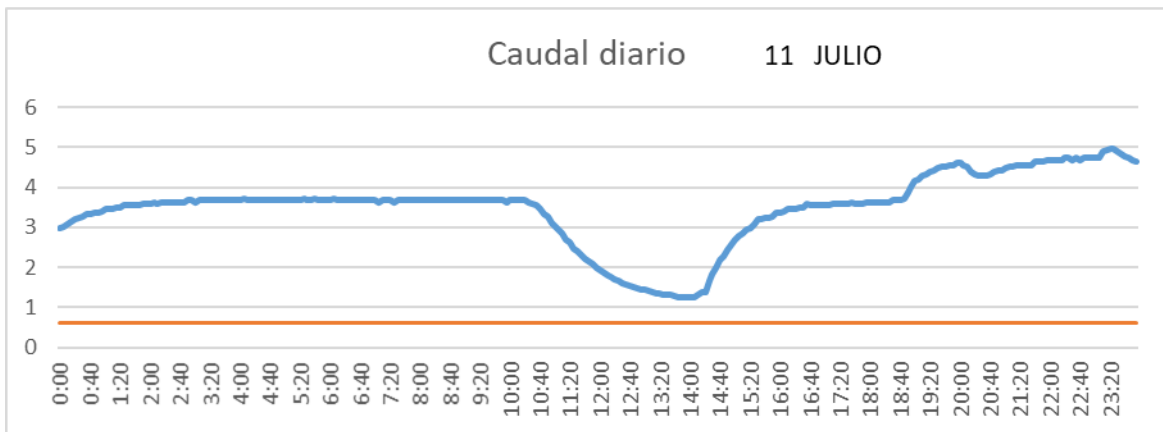
SAN LORENZO PARRILLA



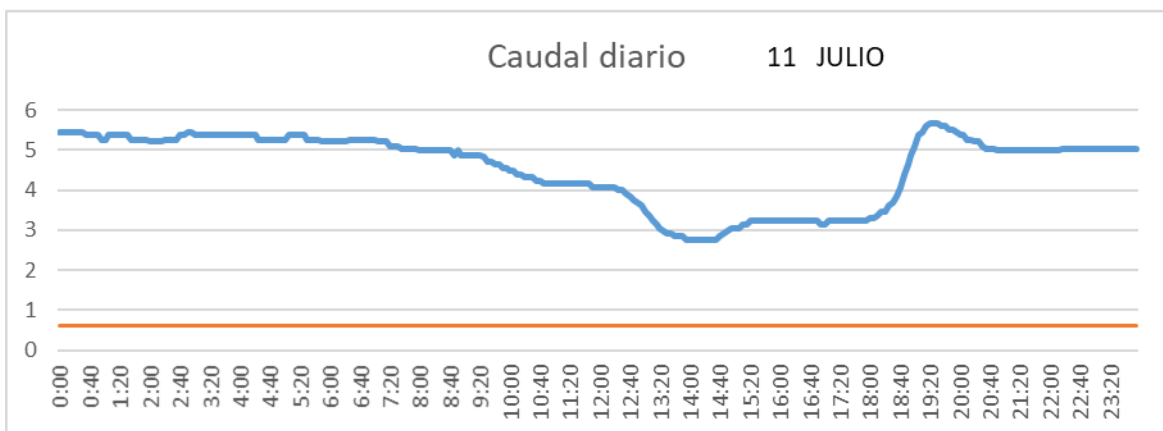
SALIDA TOBA



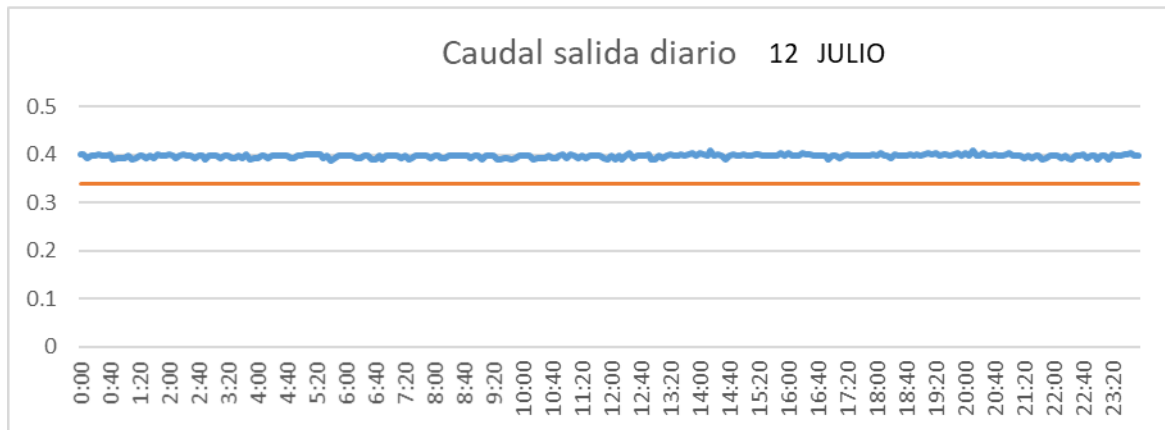
CUENCA



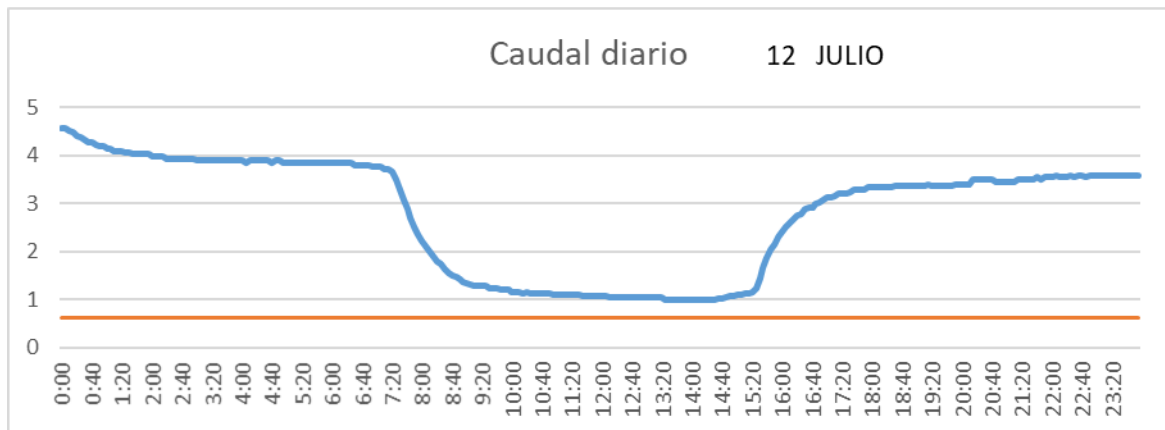
SAN LORENZO PARRILLA



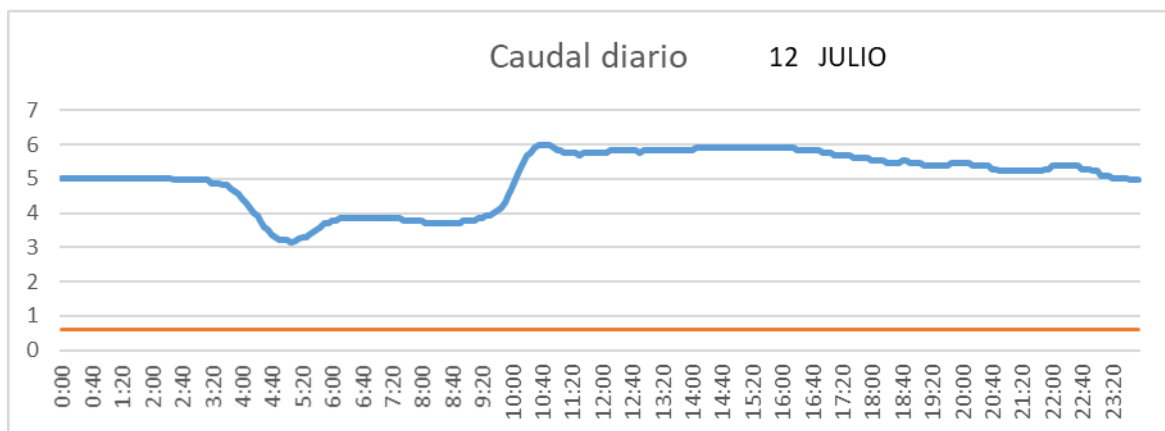
SALIDA TOBA



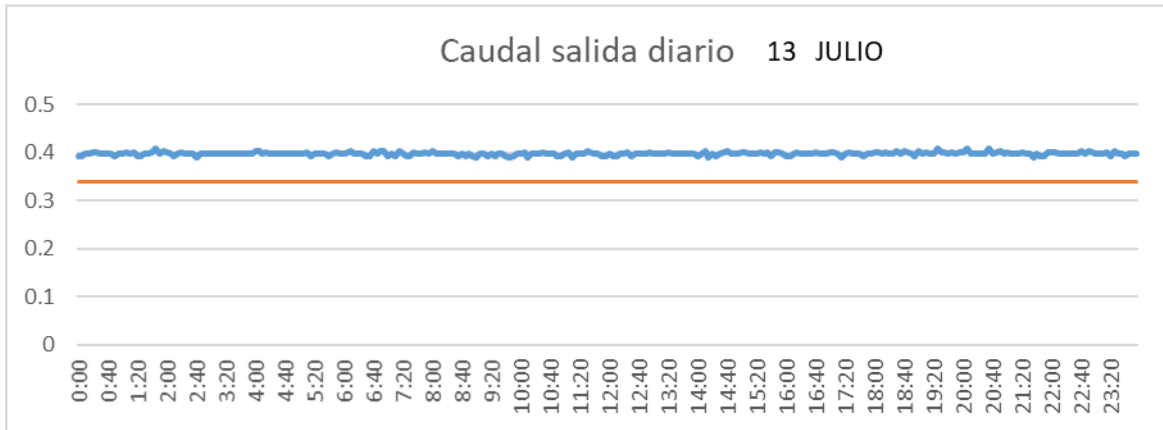
CUENCA



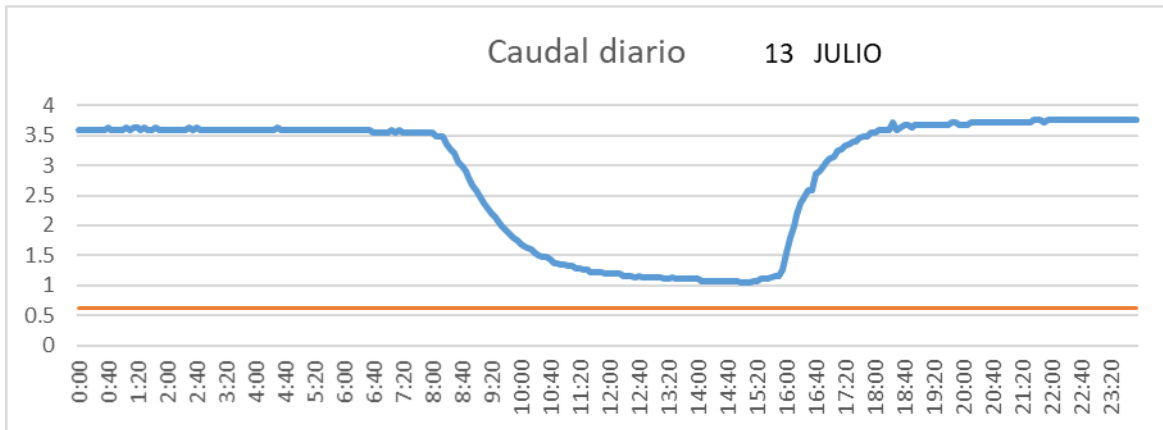
SAN LORENZO PARRILLA



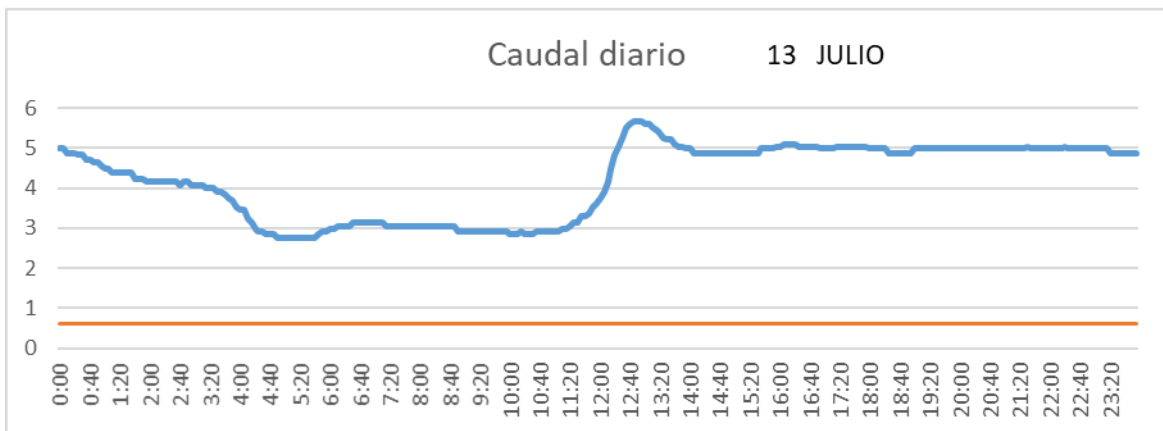
SALIDA TOBA



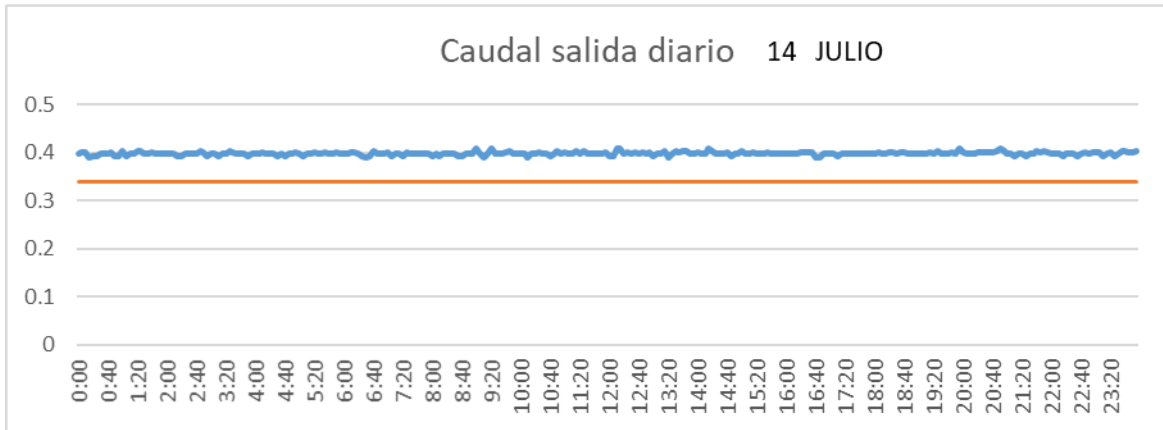
CUENCA



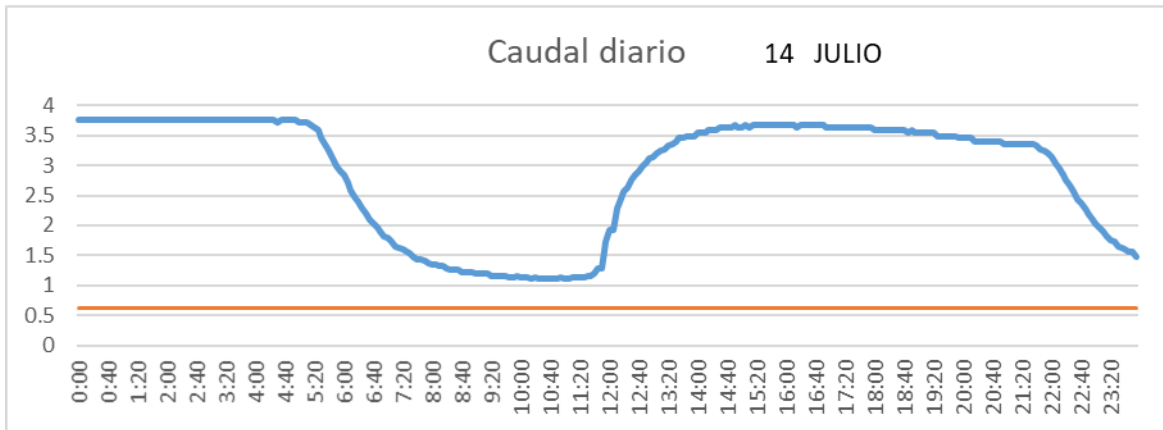
SAN LORENZO PARRILLA



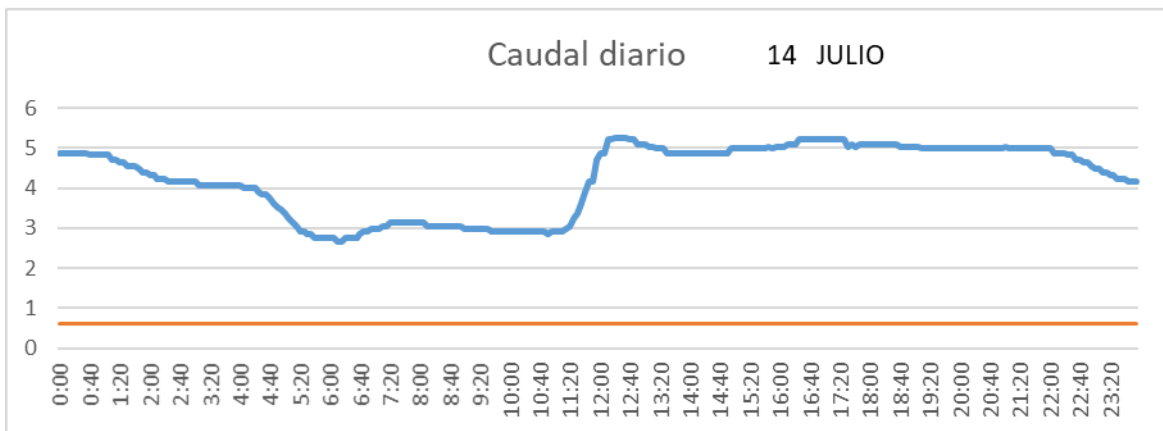
SALIDA TOBA



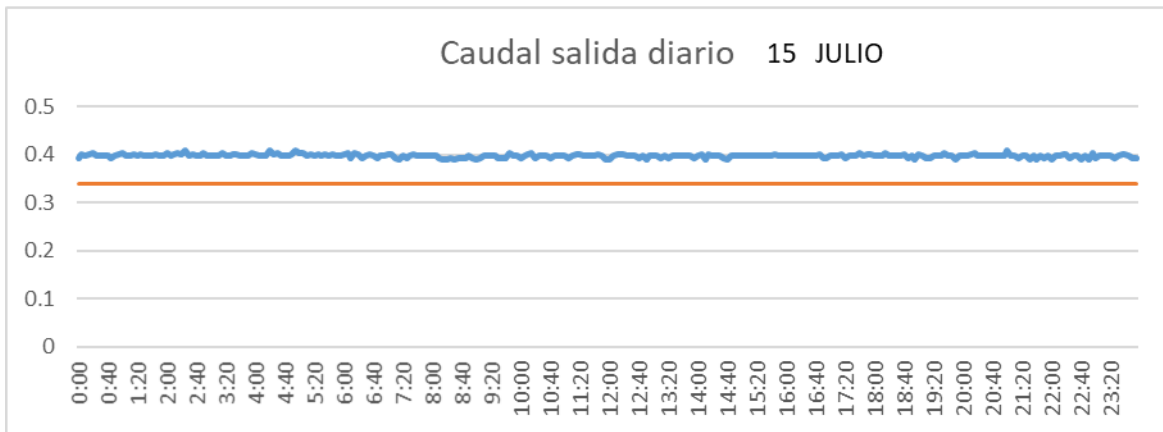
CUENCA



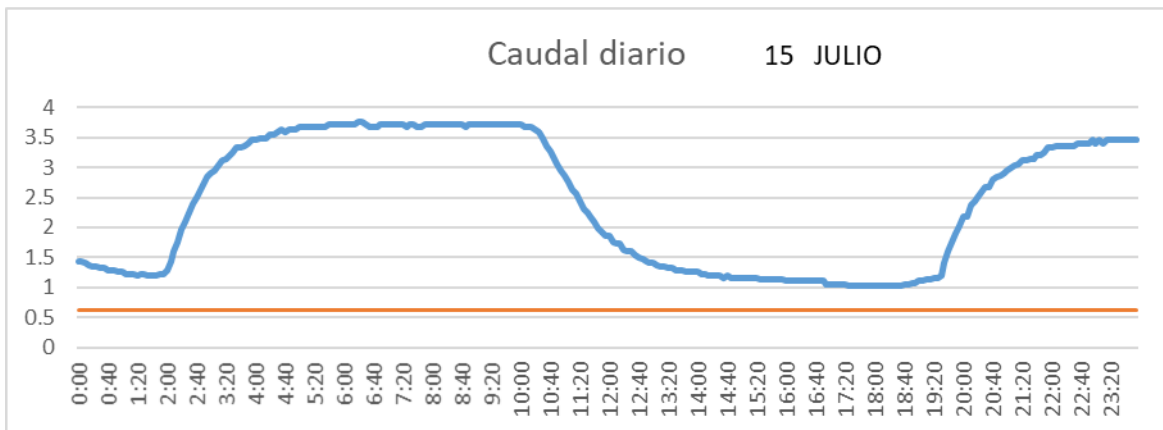
SAN LORENZO PARRILLA



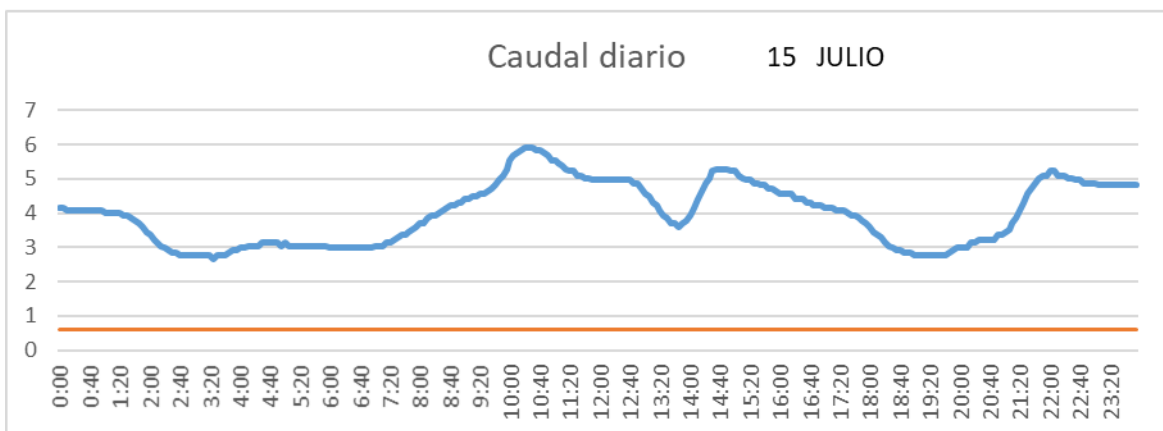
SALIDA TOBA



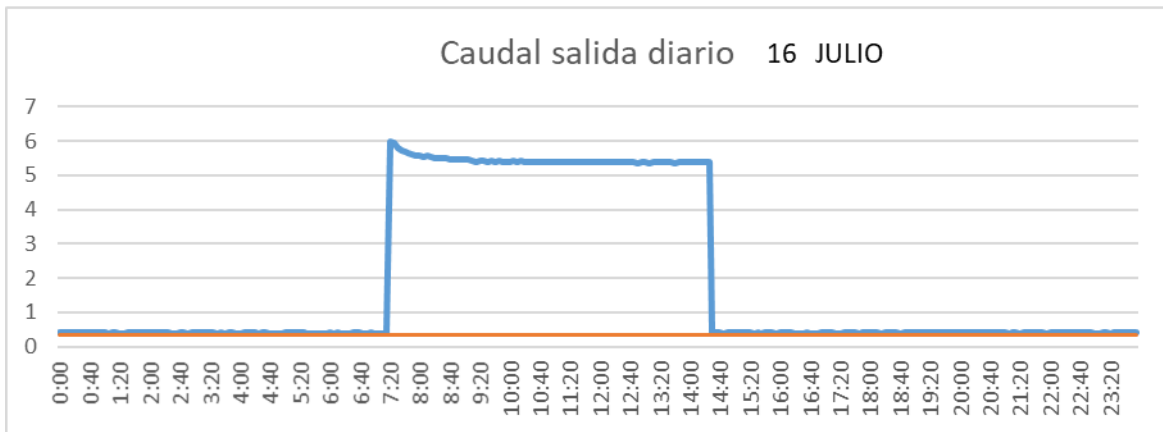
CUENCA



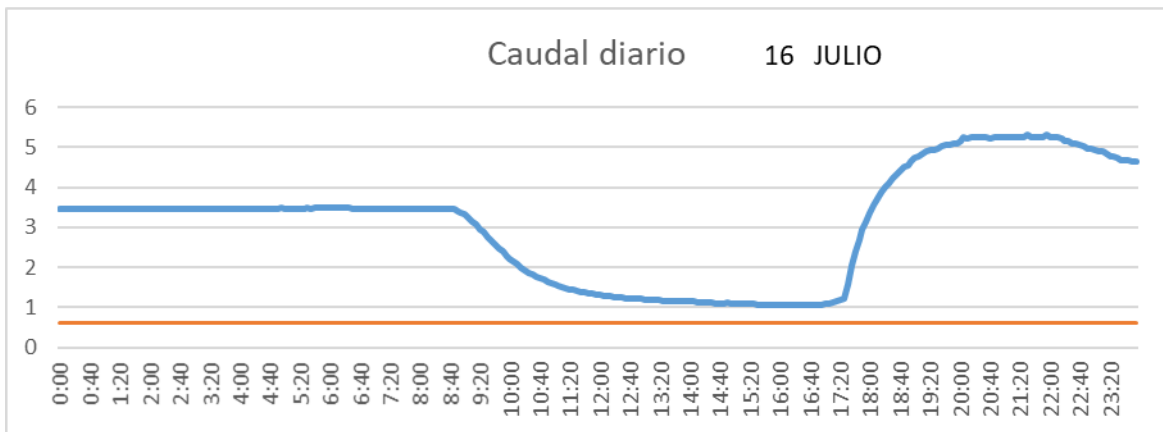
SAN LORENZO PARRILLA



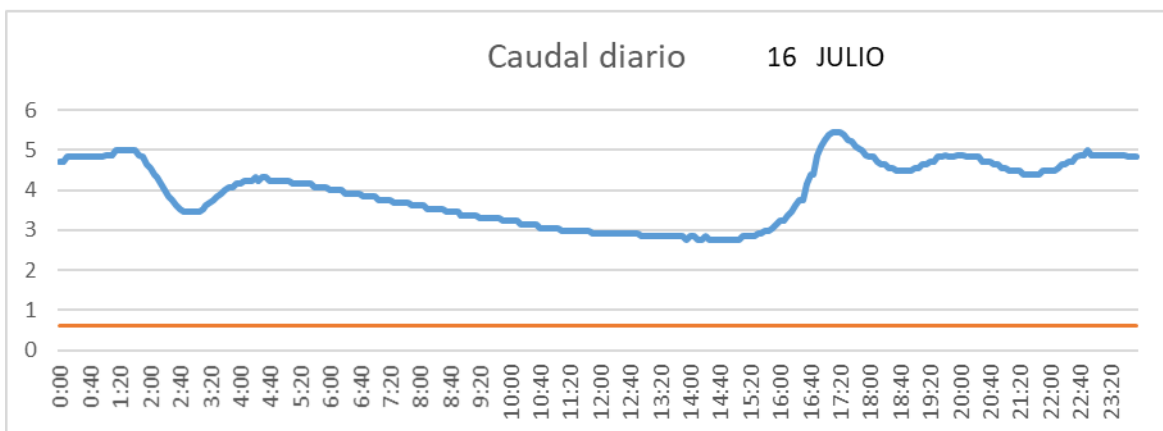
SALIDA TOBA



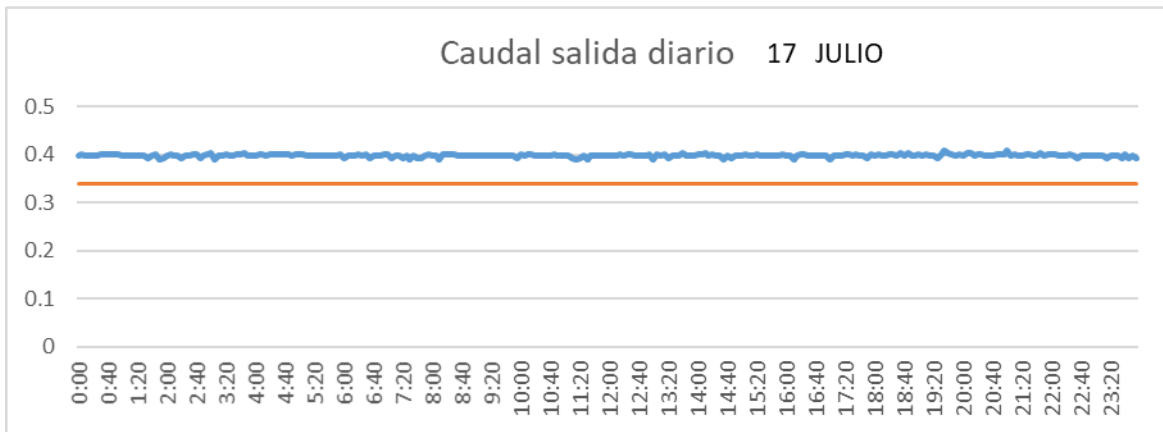
CUENCA



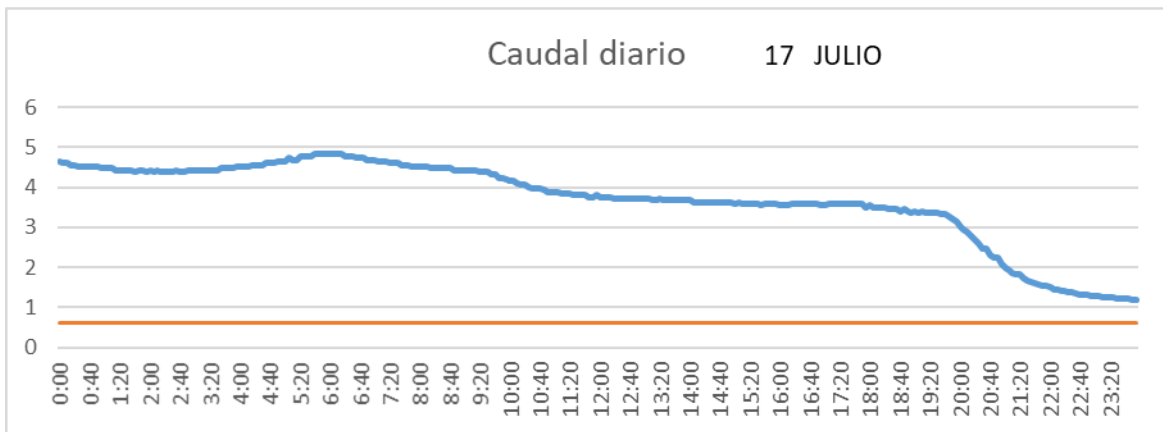
SAN LORENZO PARRILLA



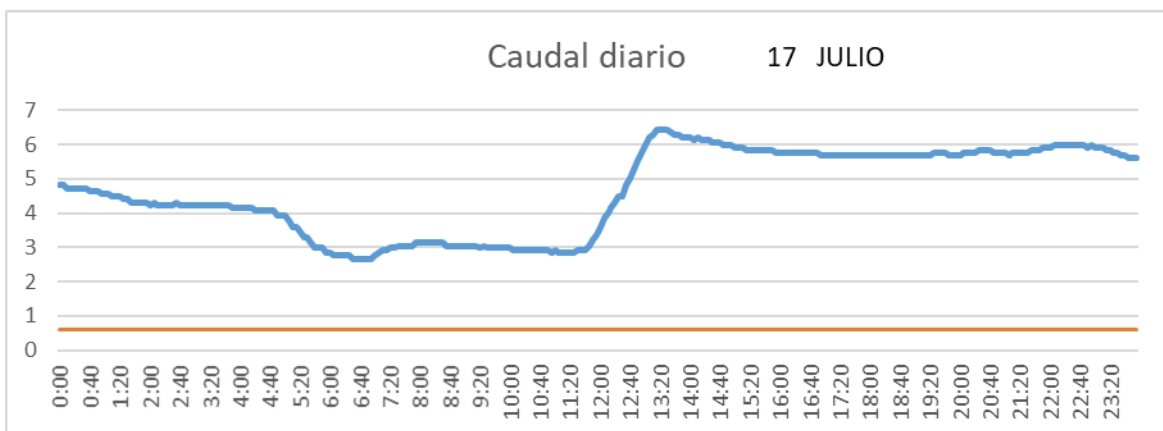
SALIDA TOBA



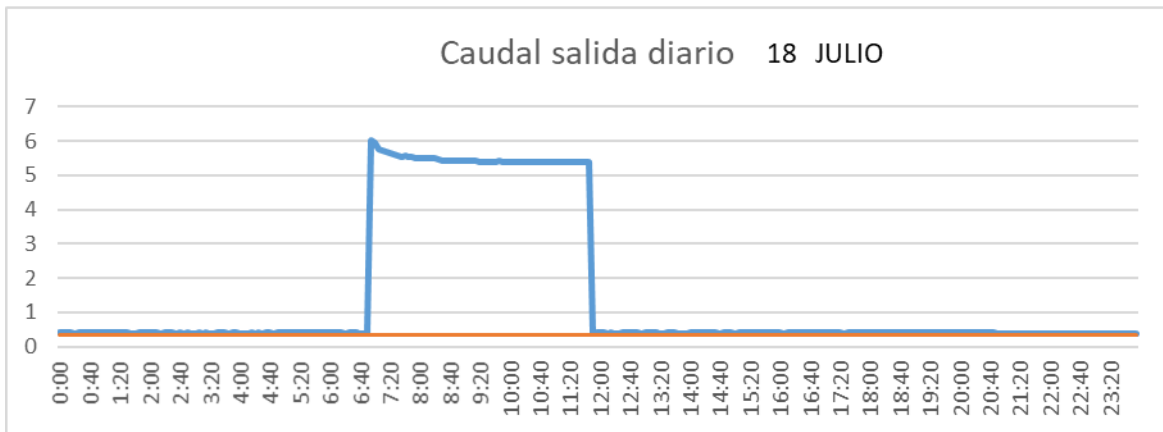
CUENCA



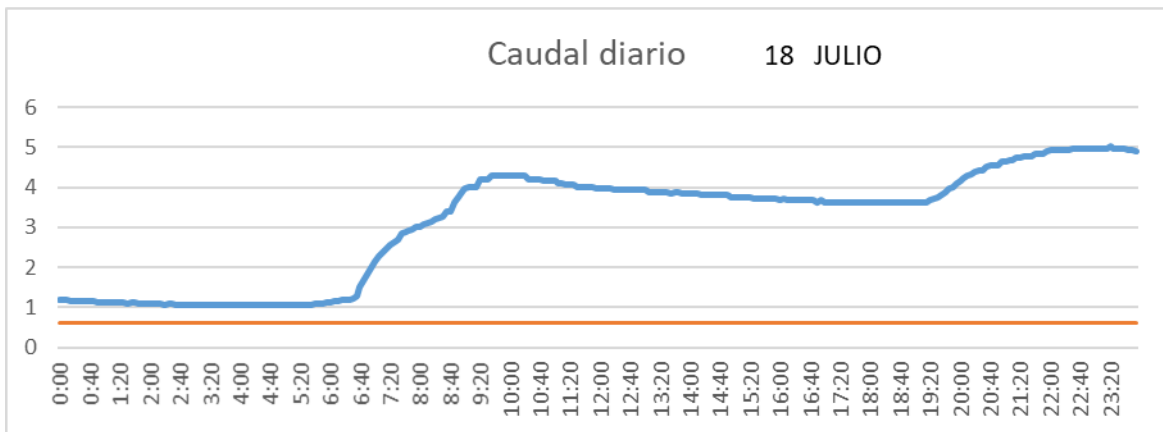
SAN LORENZO PARRILLA



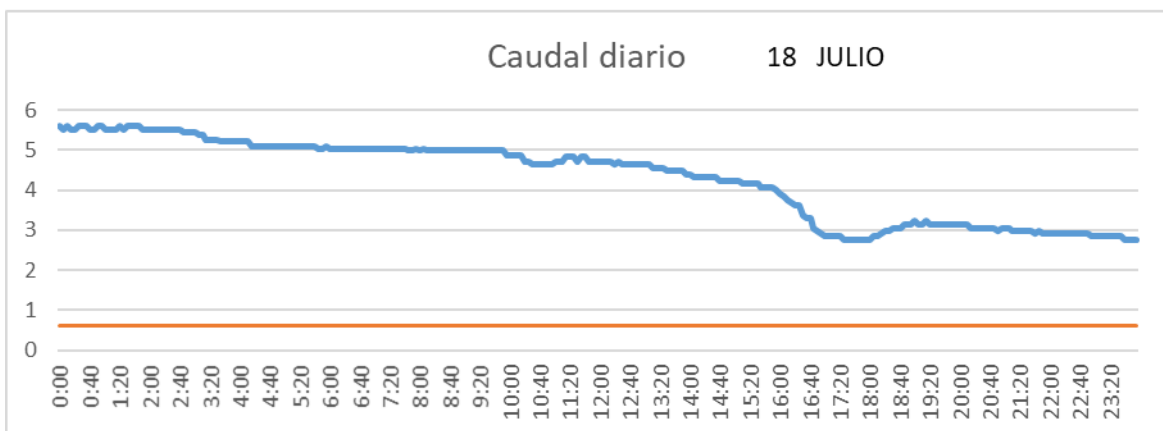
SALIDA TOBA



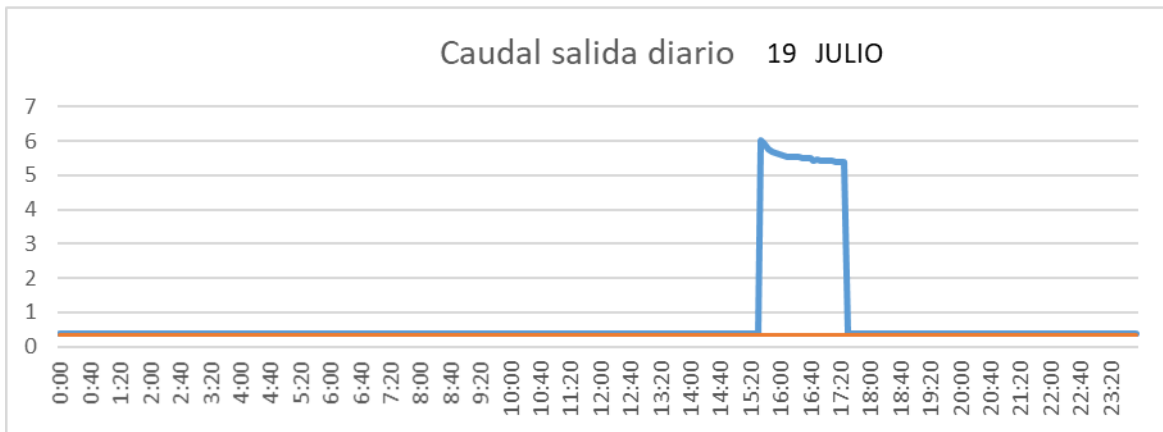
CUENCA



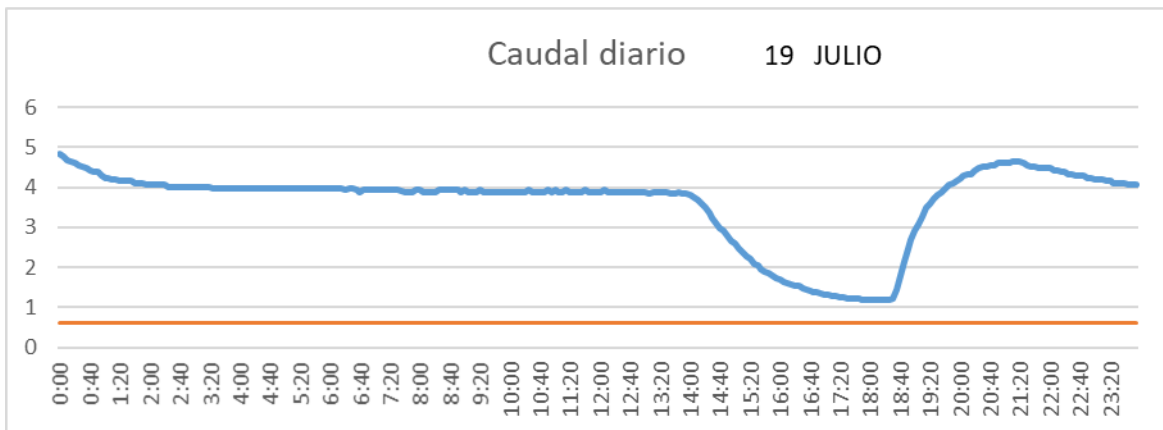
SAN LORENZO PARRILLA



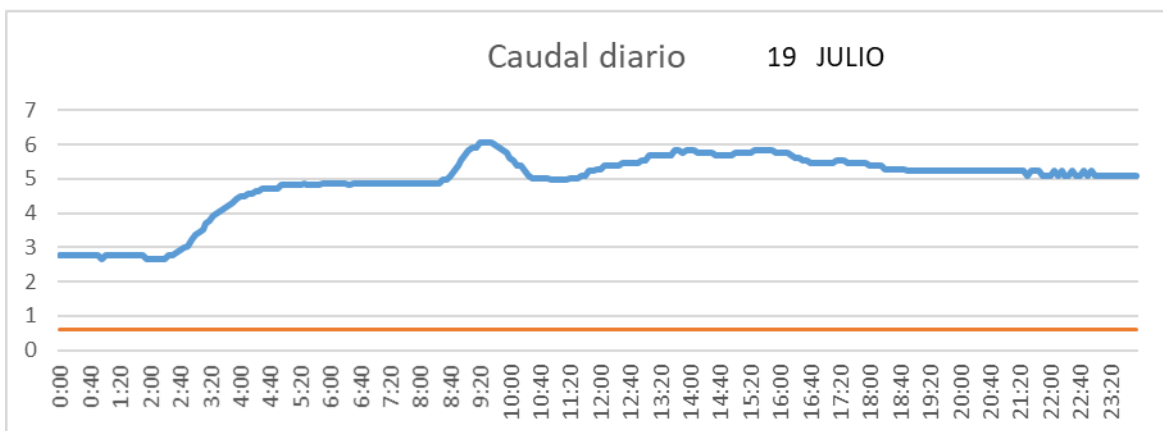
SALIDA TOBA



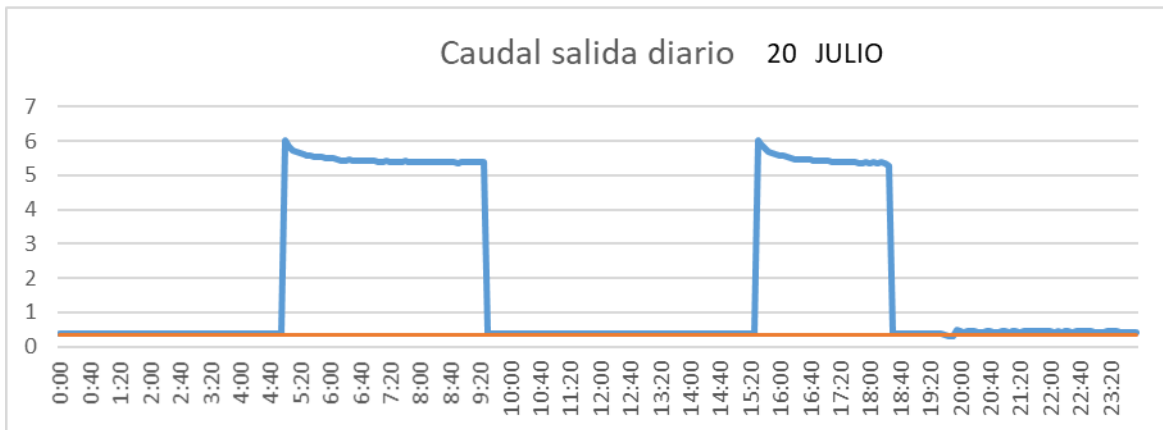
CUENCA



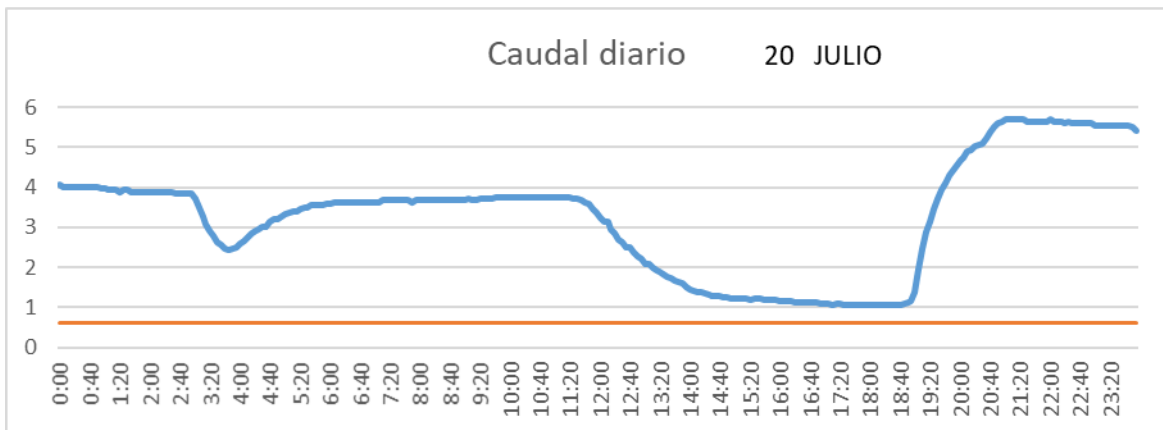
SAN LORENZO PARRILLA



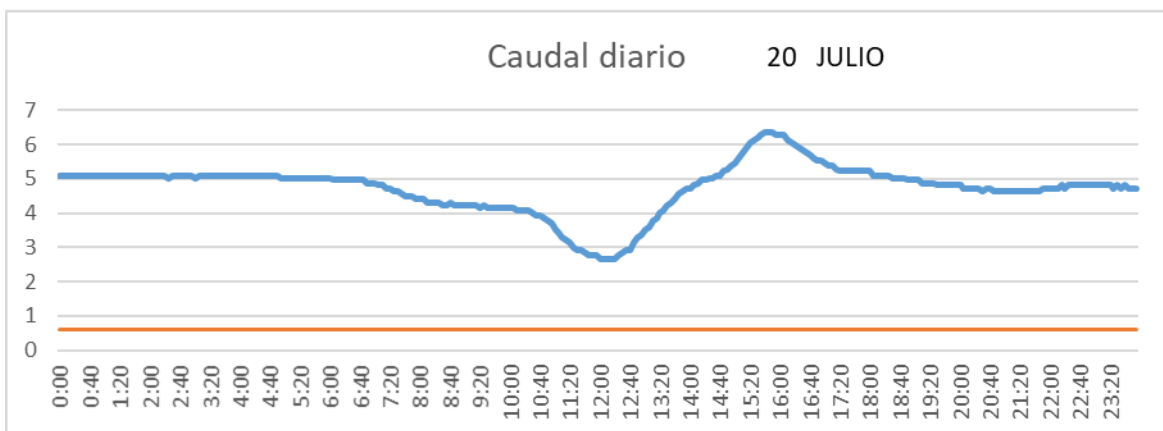
SALIDA TOBA



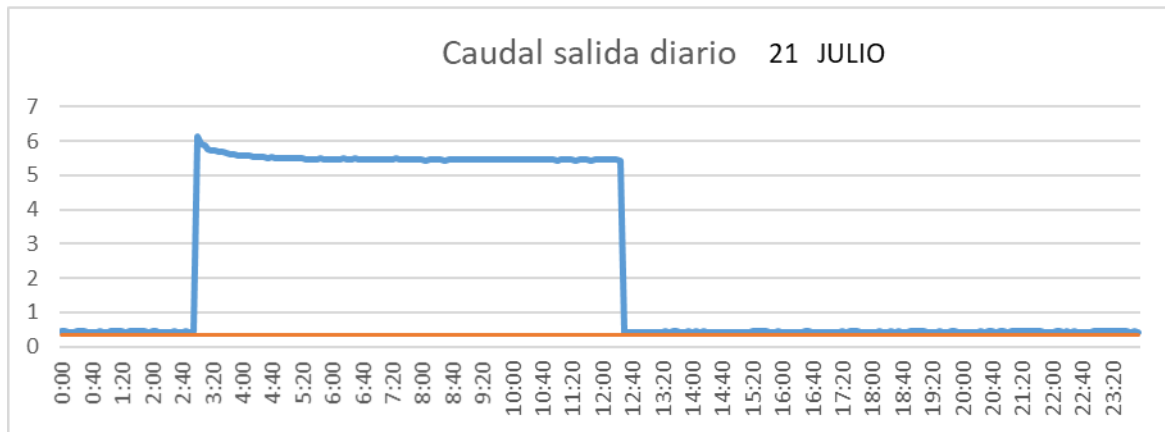
CUENCA



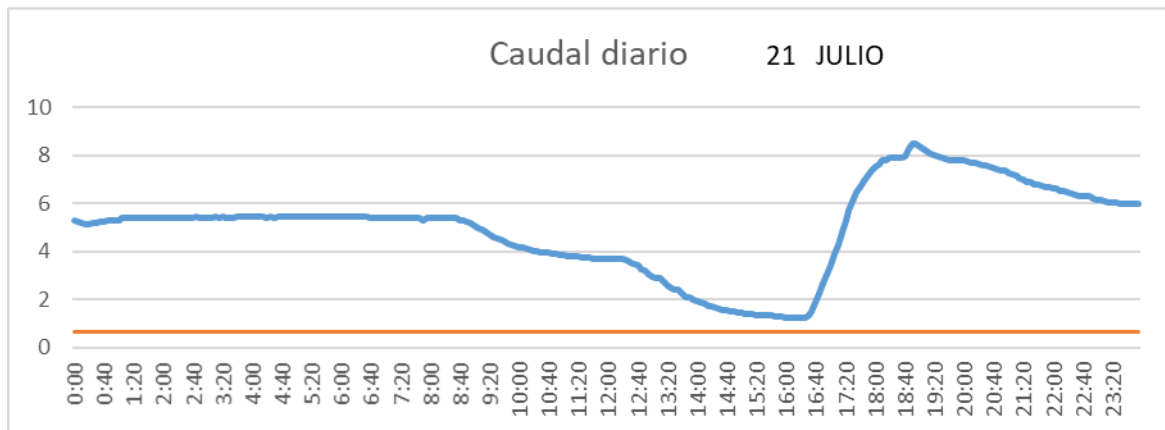
SAN LORENZO PARRILLA



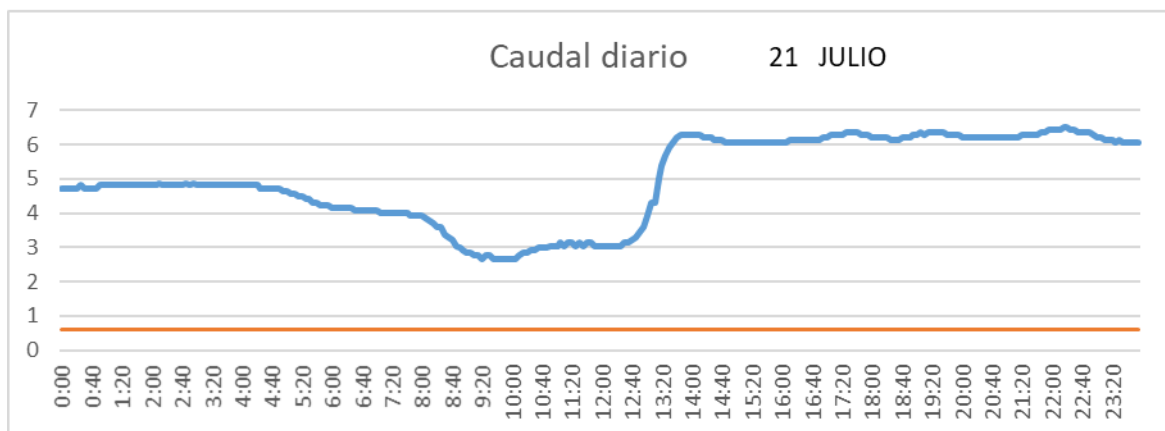
SALIDA TOBA



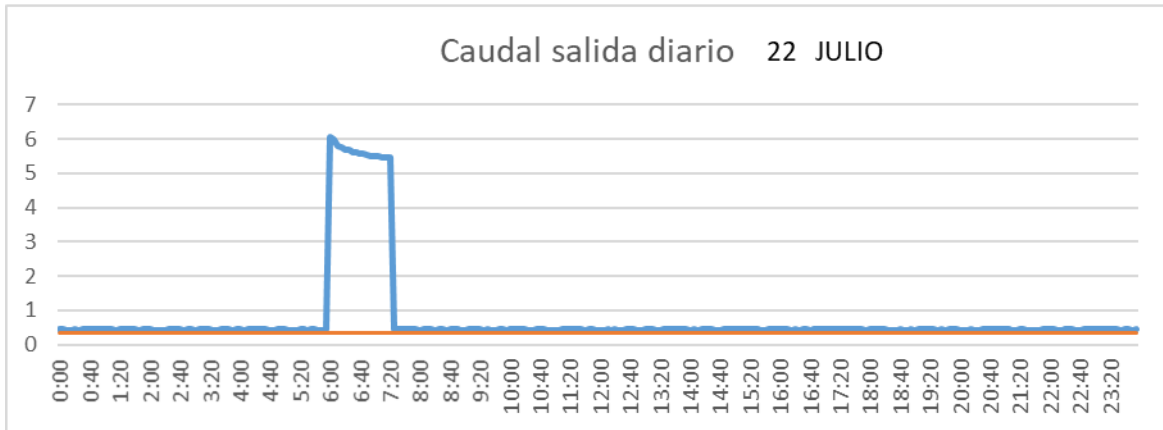
CUENCA



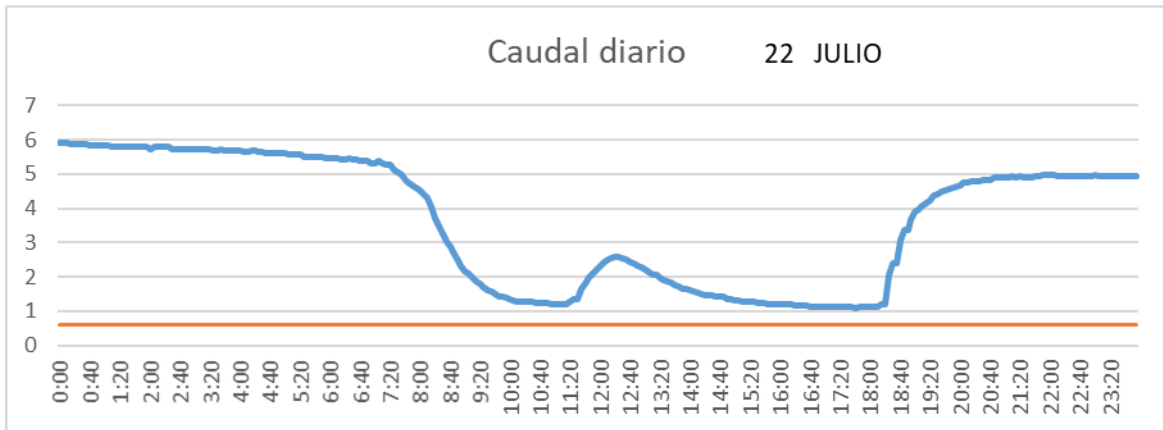
SAN LORENZO PARRILLA



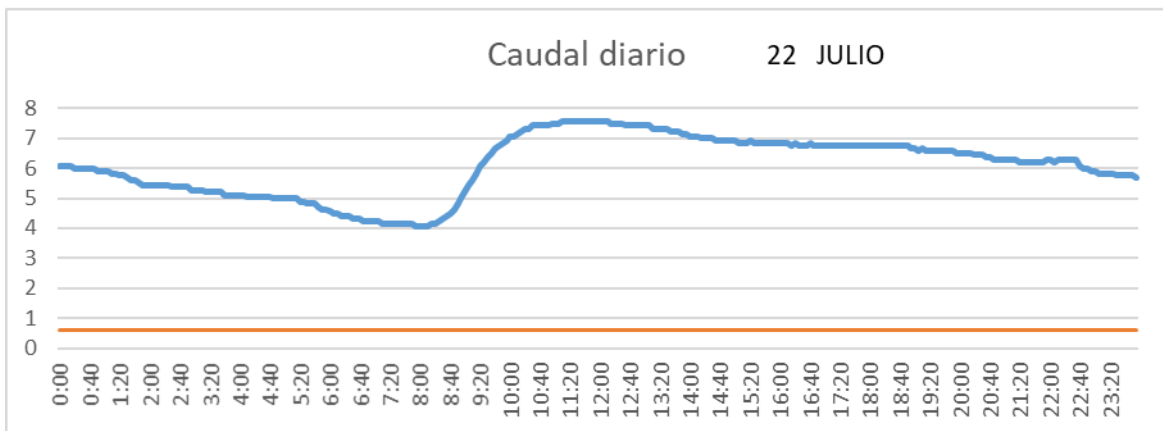
SALIDA TOBA



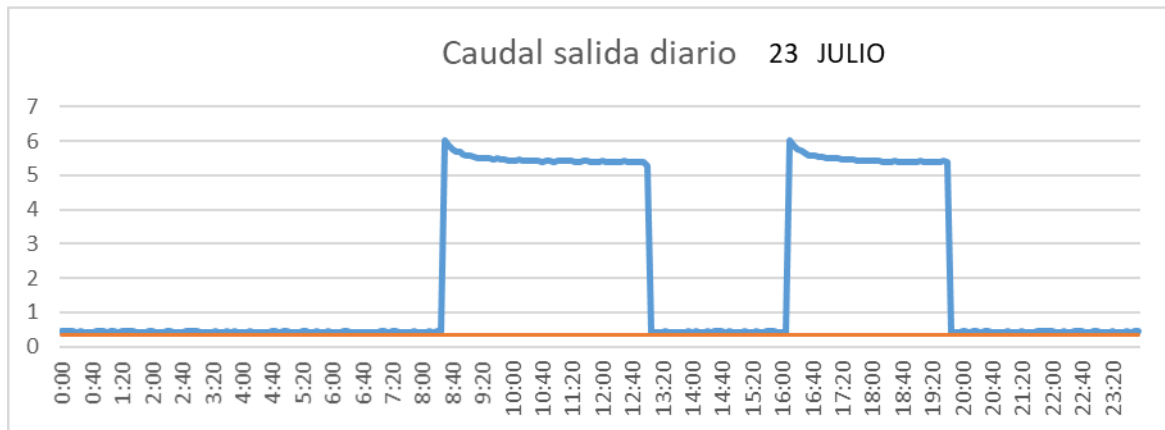
CUENCA



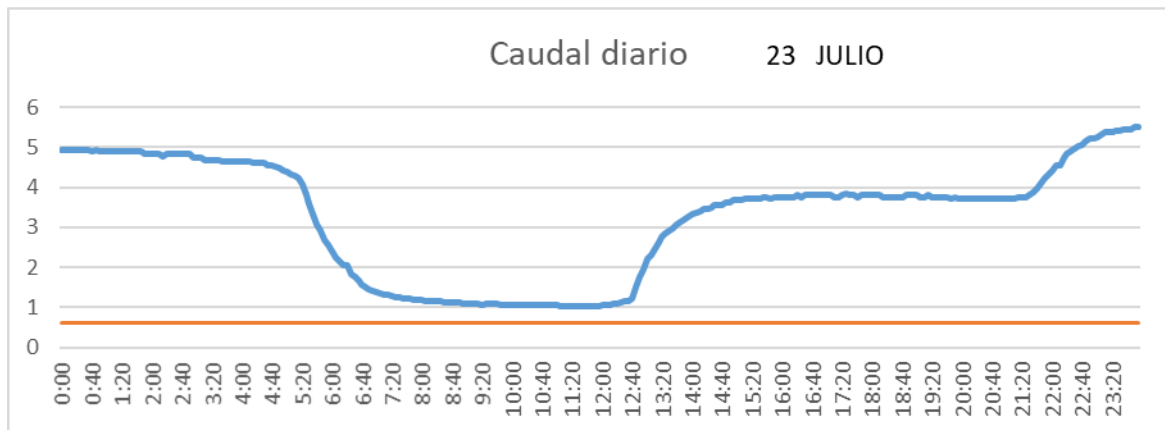
SAN LORENZO PARRILLA



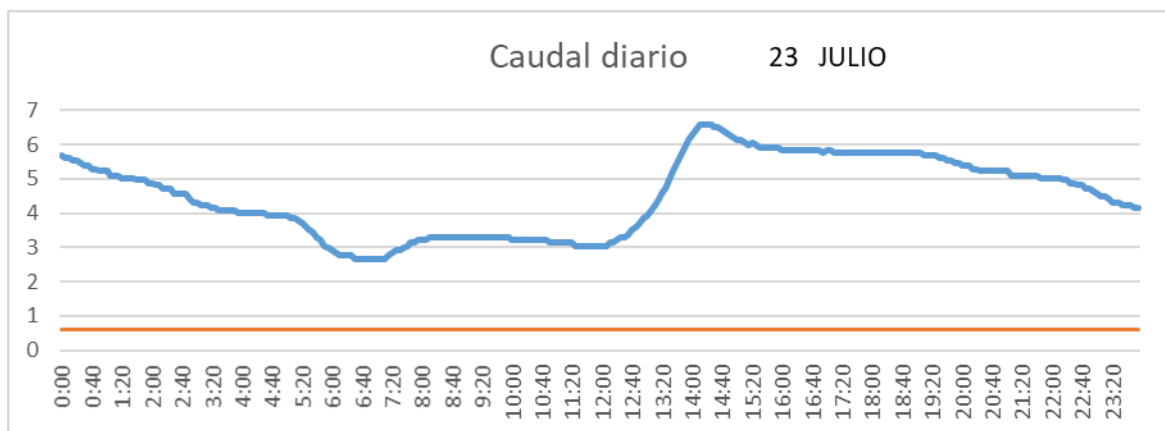
SALIDA TOBA



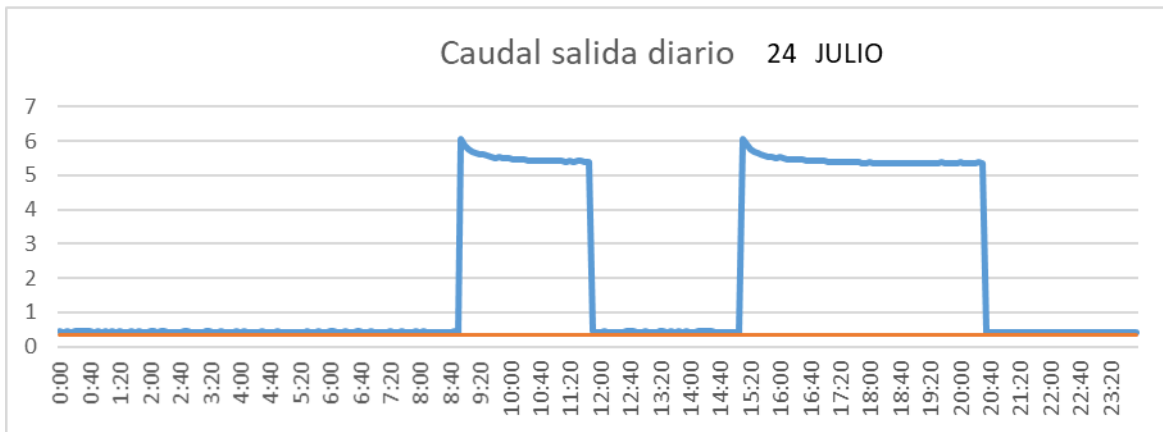
CUENCA



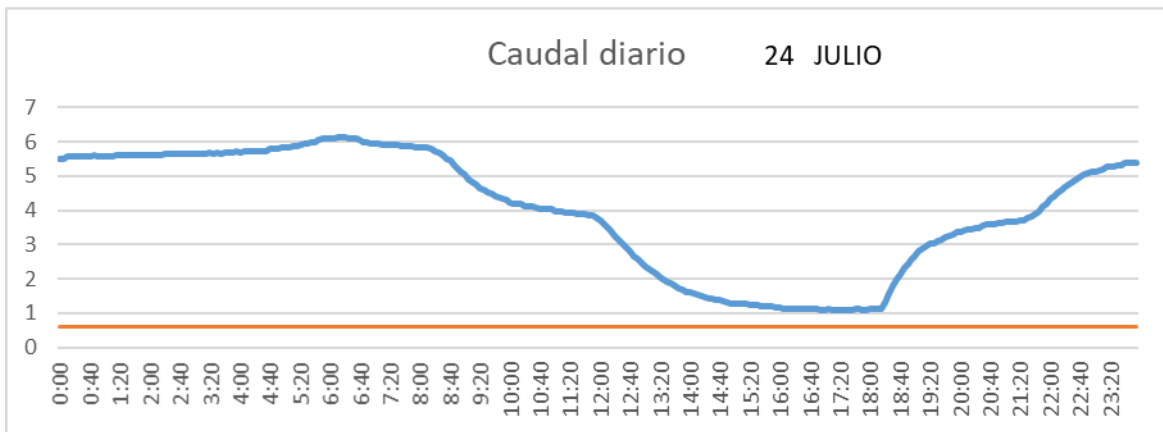
SAN LORENZO PARRILLA



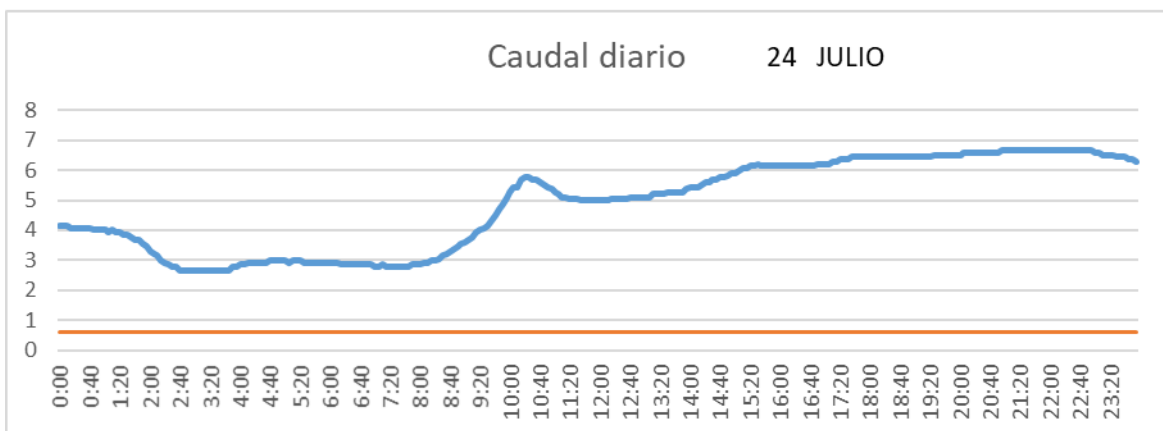
SALIDA TOBA



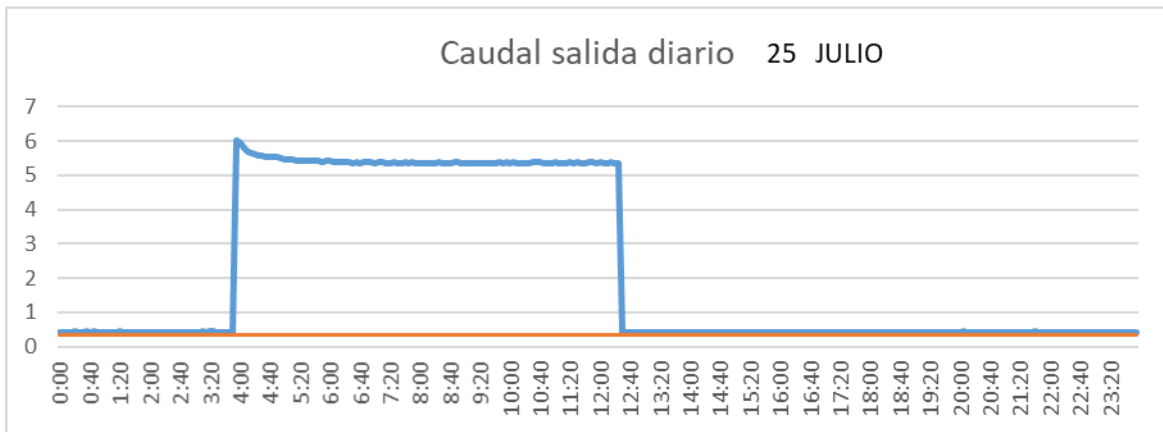
CUENCA



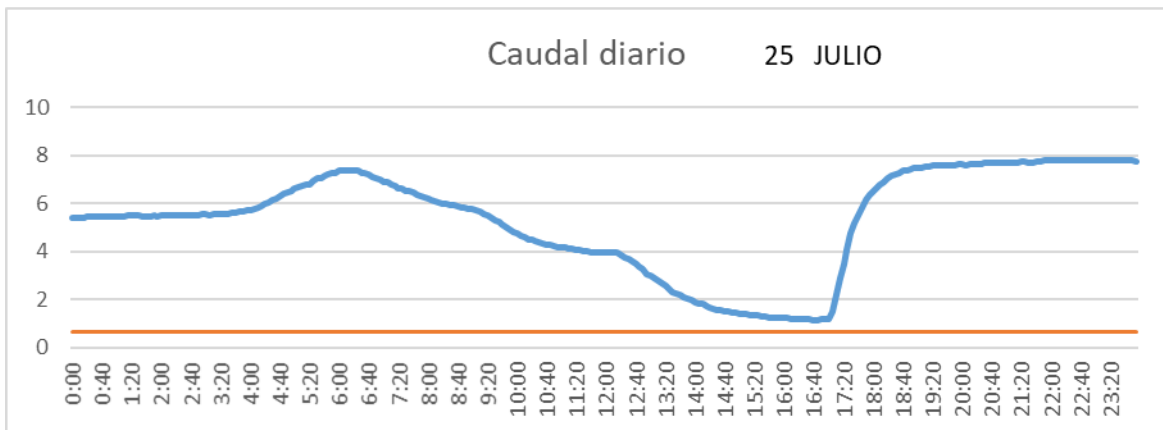
SAN LORENZO PARRILLA



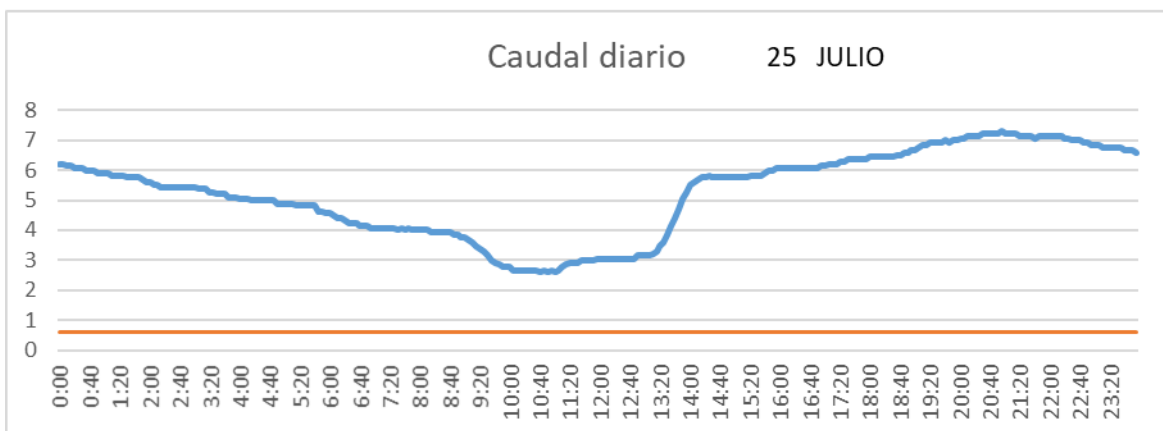
SALIDA TOBA



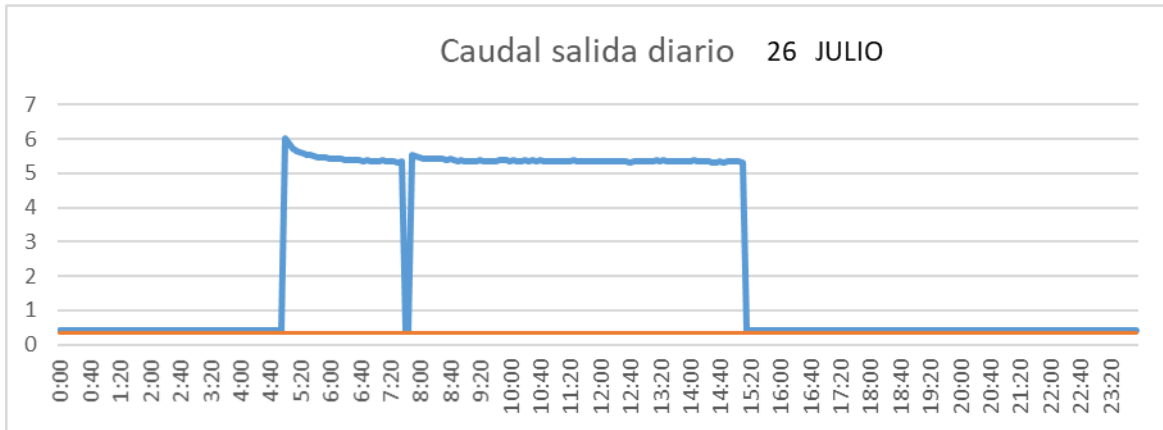
CUENCA



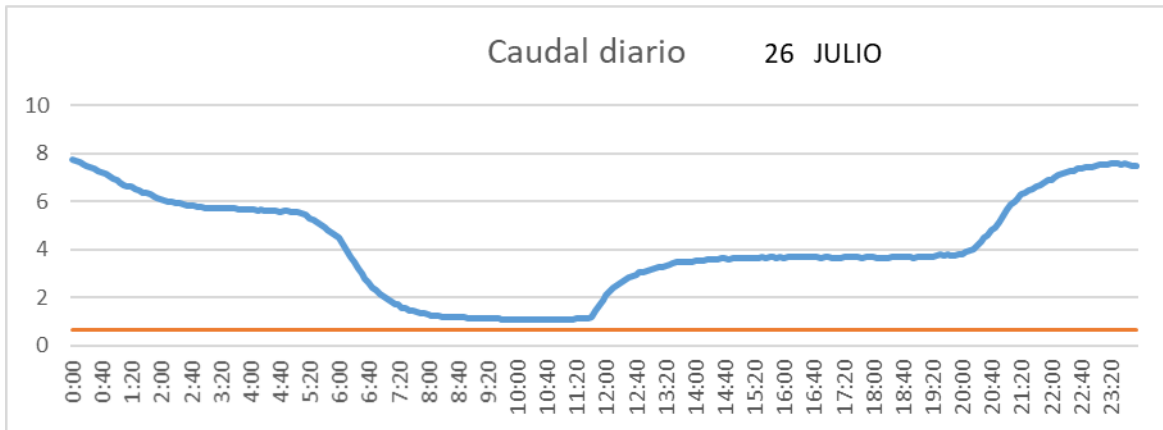
SAN LORENZO PARRILLA



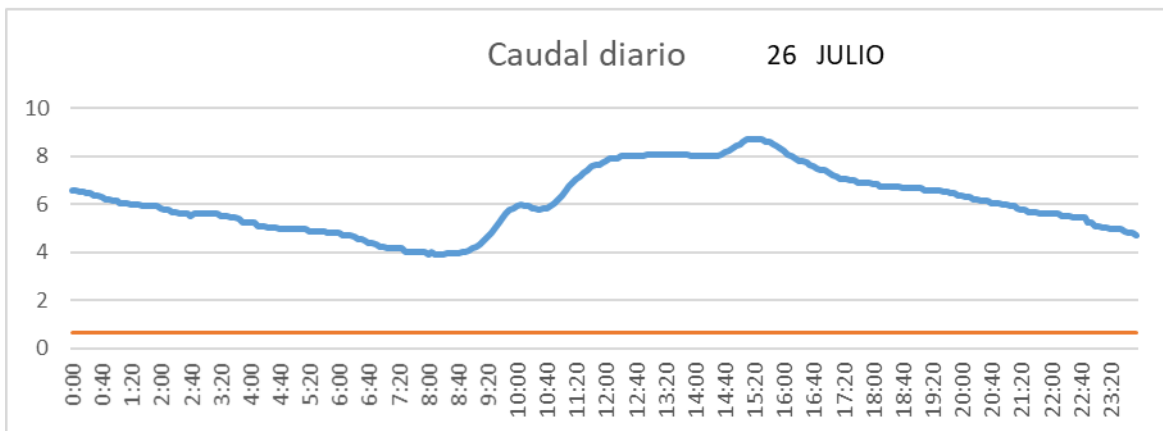
SALIDA TOBA



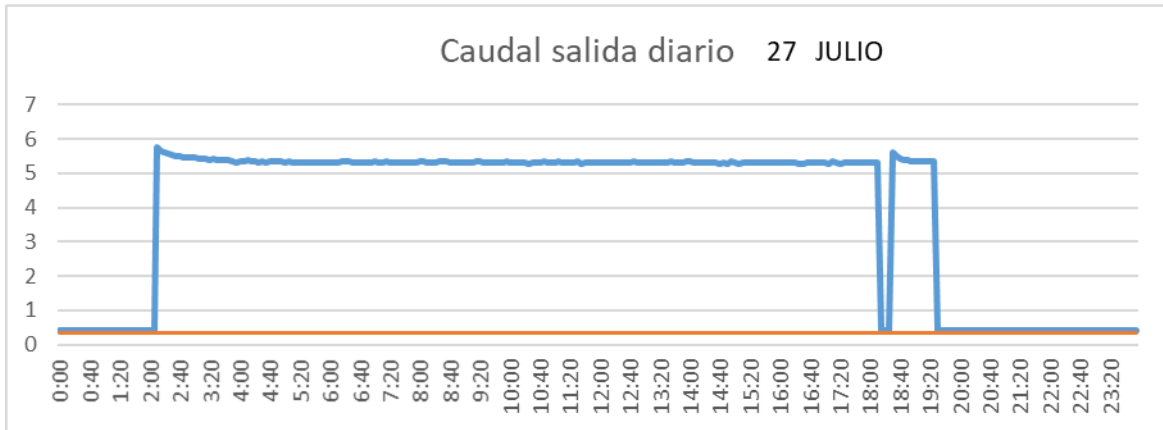
CUENCA



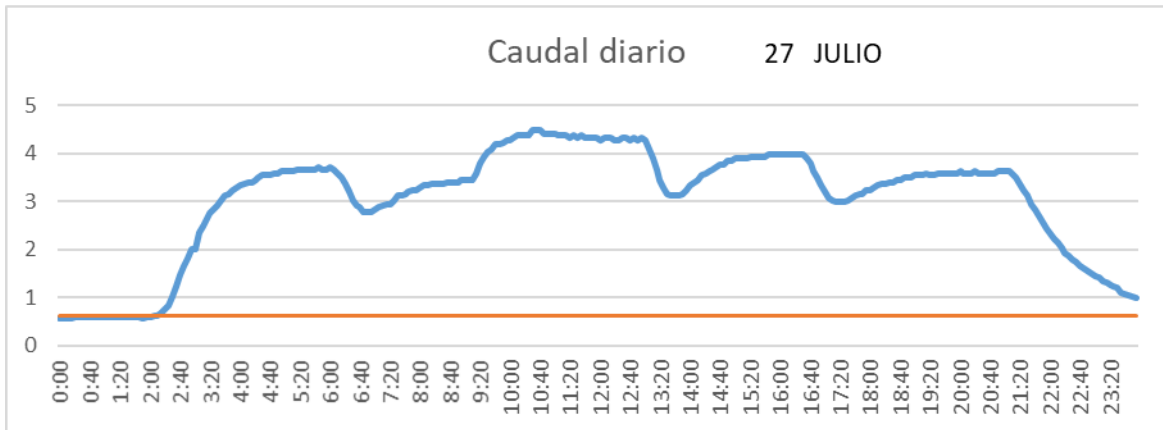
SAN LORENZO PARRILLA



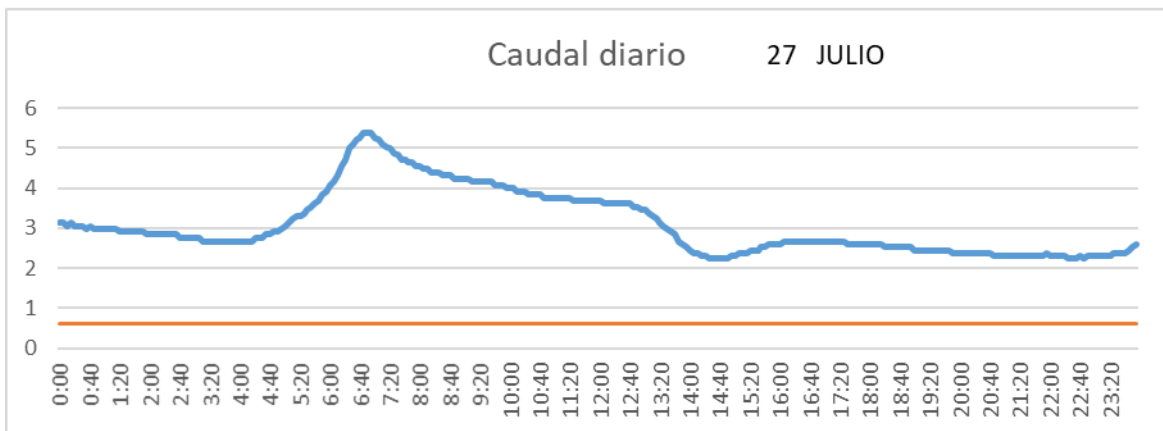
SALIDA TOBA



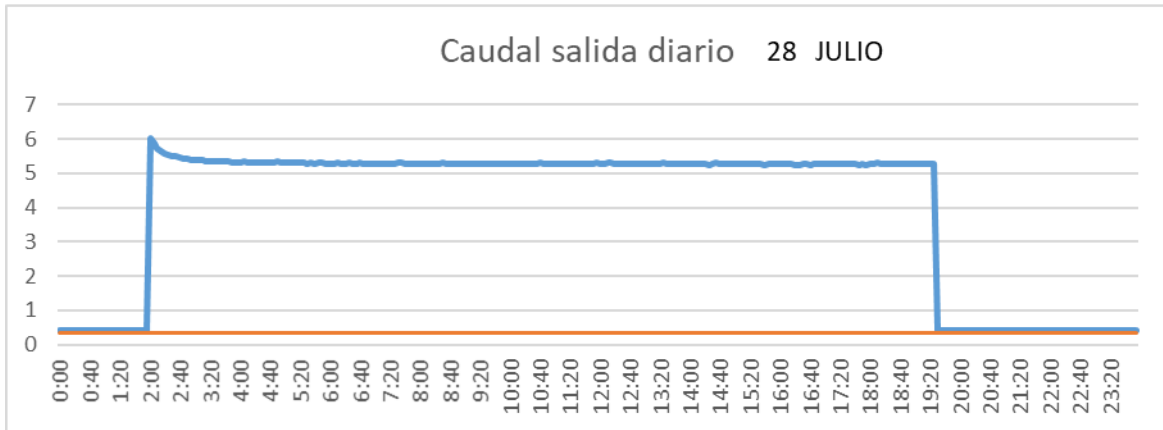
CUENCA



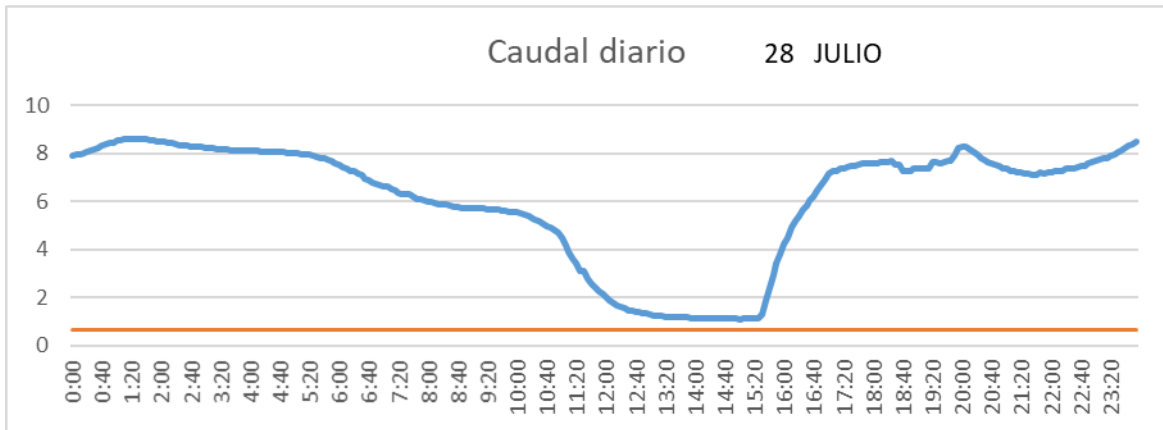
SAN LORENZO PARRILLA



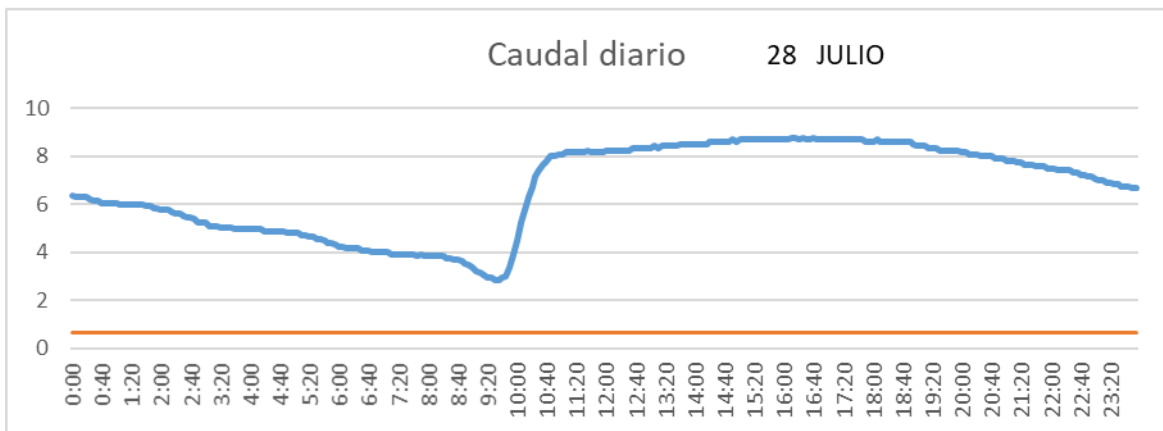
SALIDA TOBA



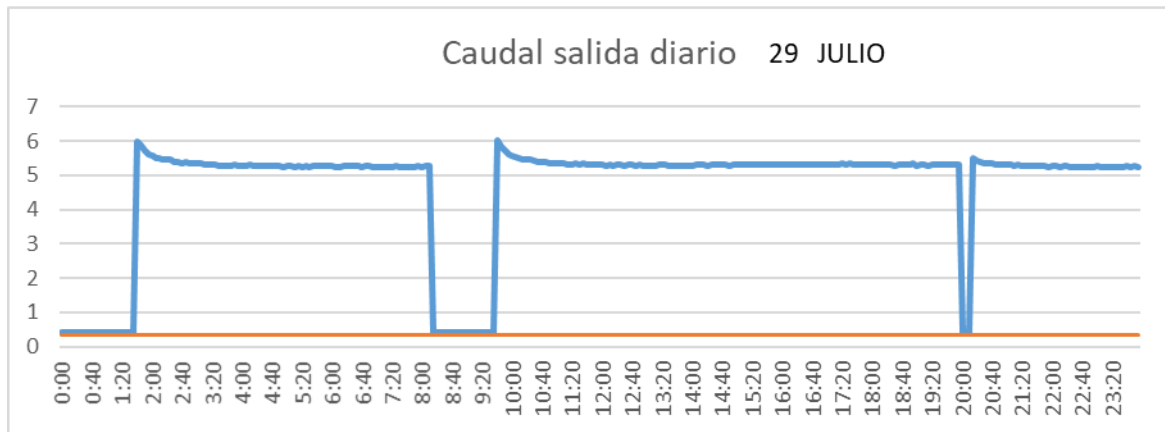
CUENCA



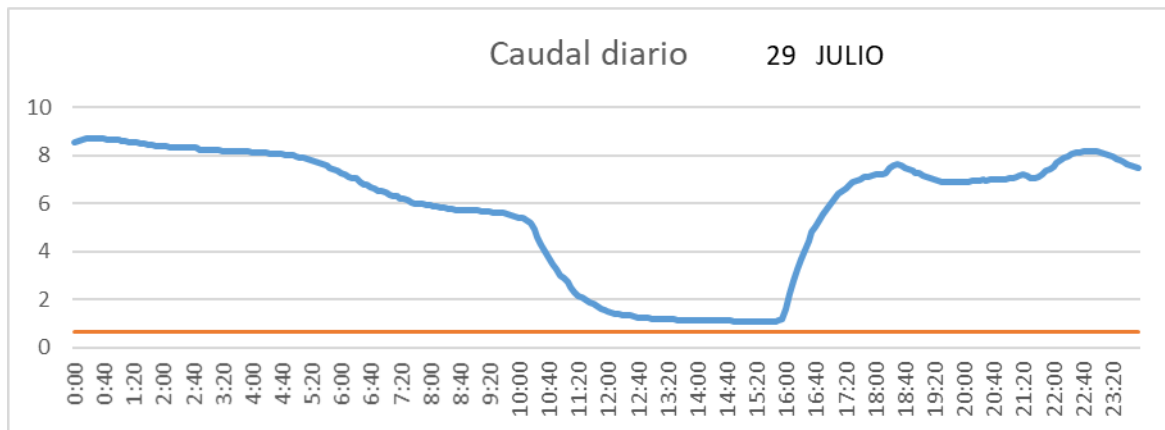
SAN LORENZO PARRILLA



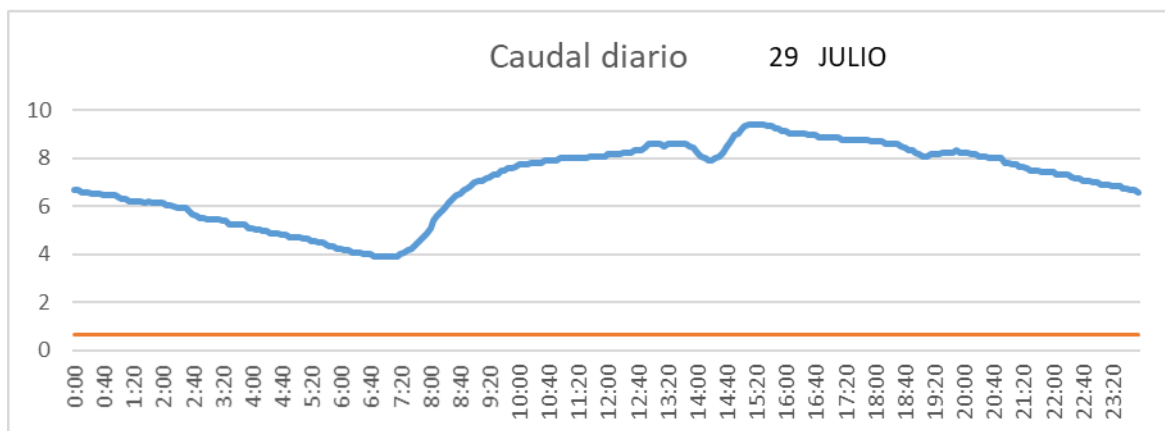
SALIDA TOBA



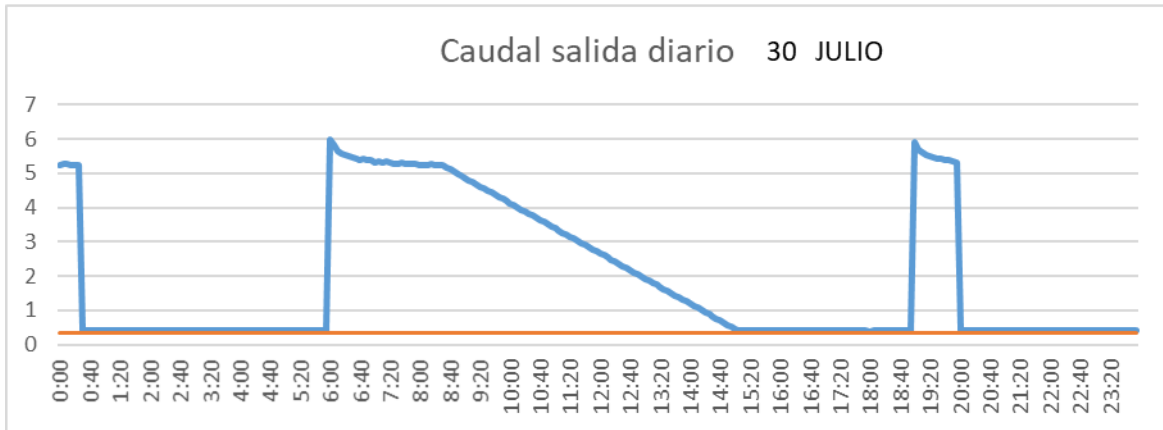
CUENCA



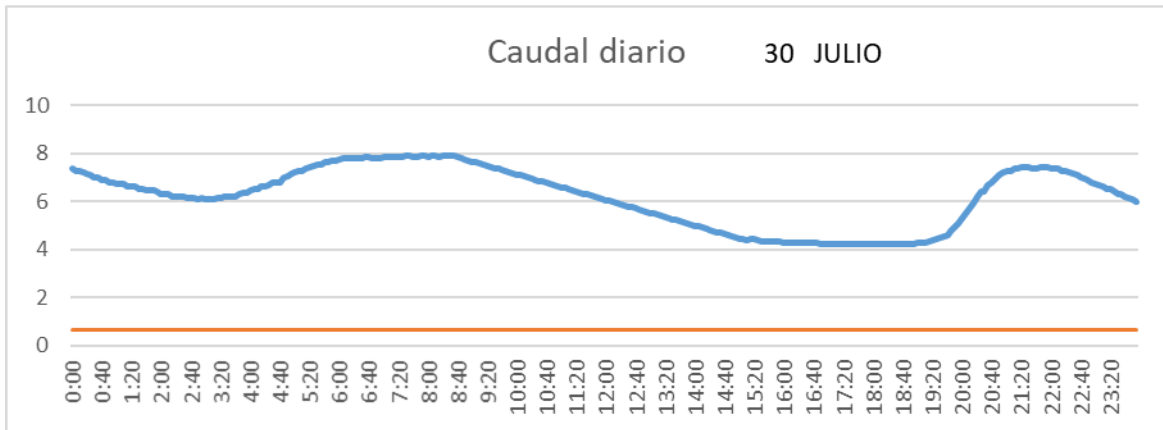
SAN LORENZO PARRILLA



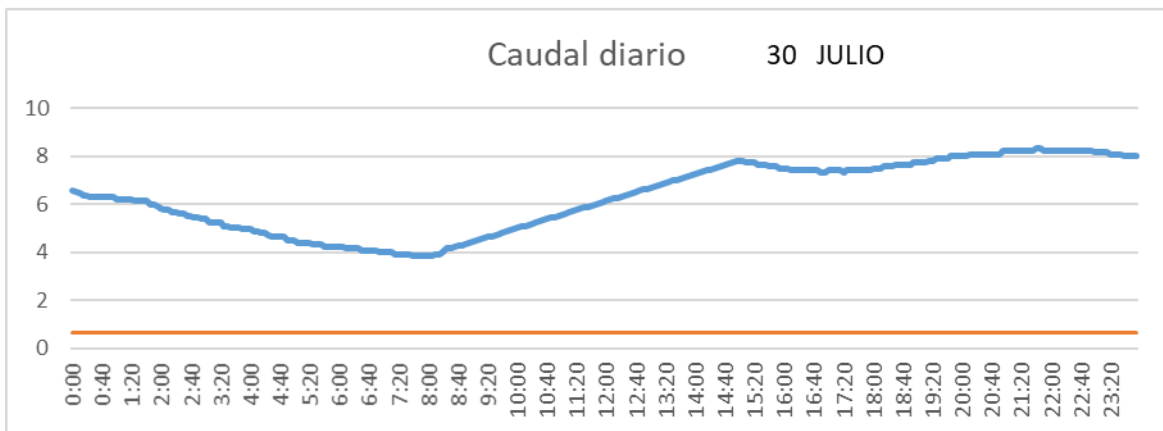
SALIDA TOBA



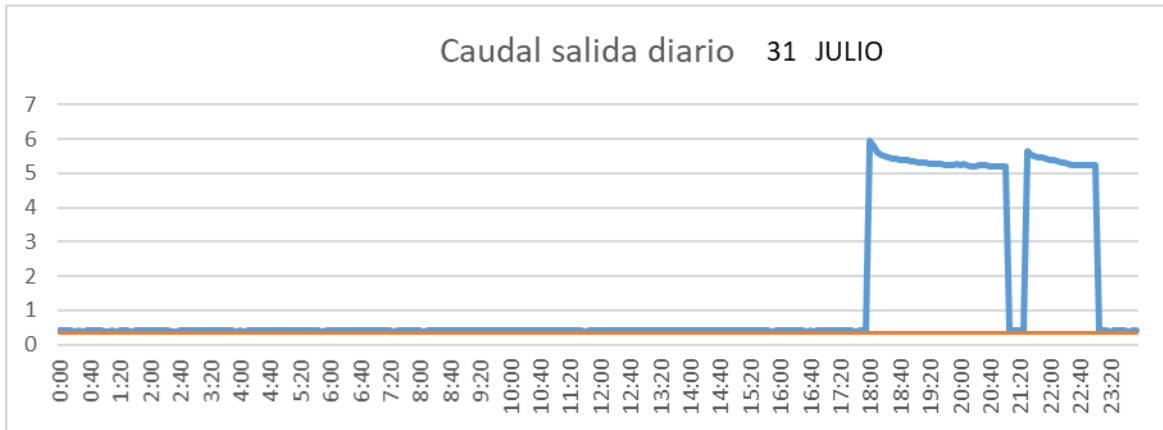
CUENCA



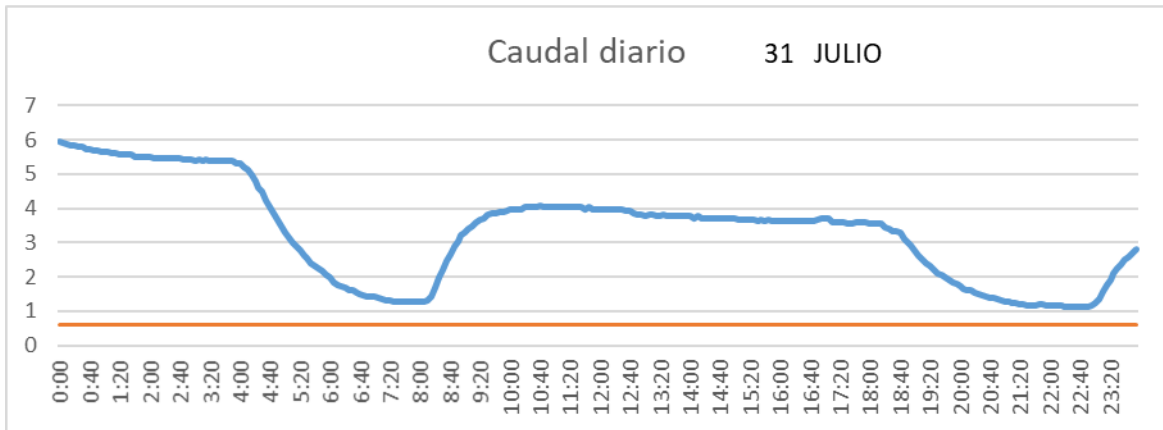
SAN LORENZO PARRILLA



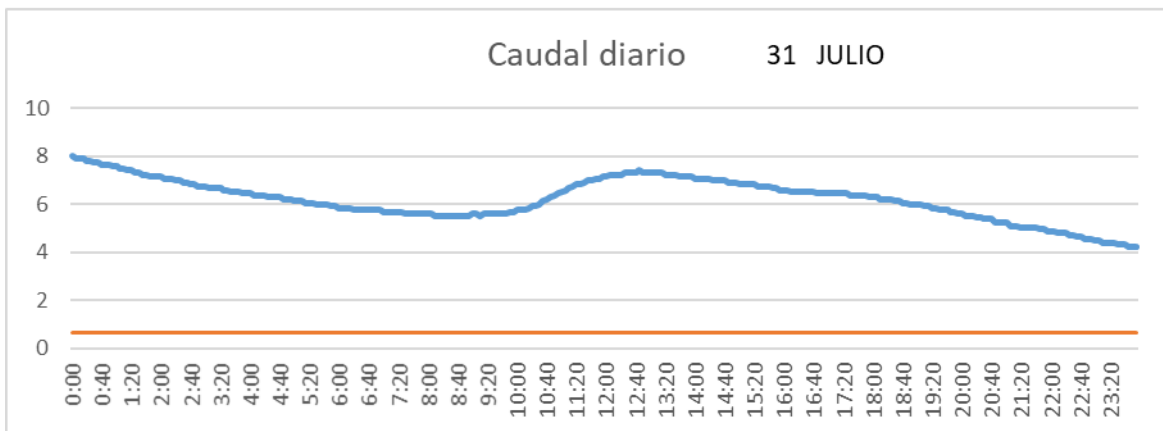
SALIDA TOBA



CUENCA

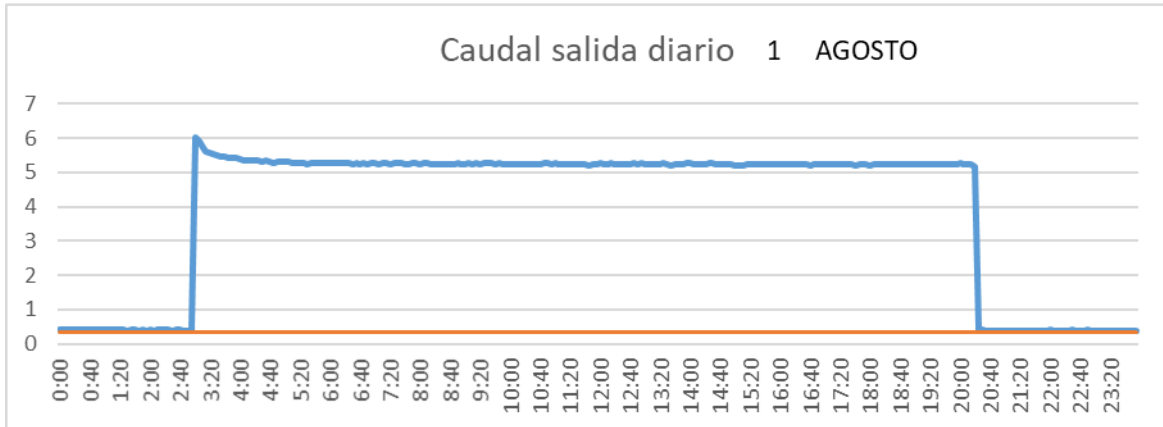


SAN LORENZO PARRILLA

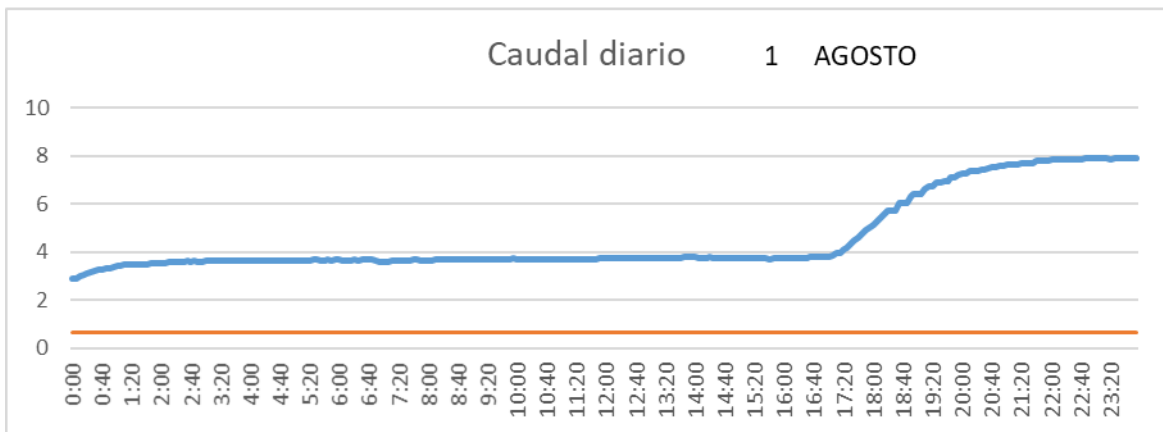


2.2.8 Agosto

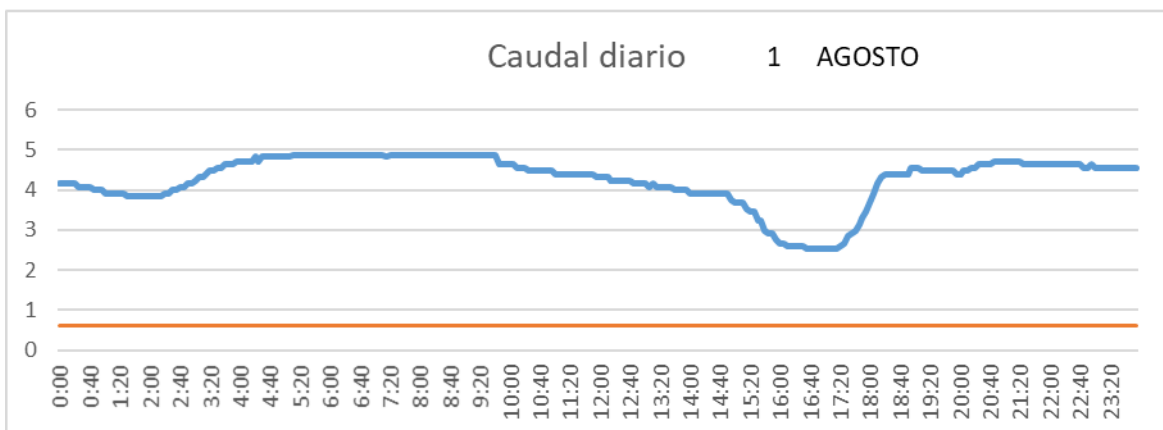
SALIDA TOBA



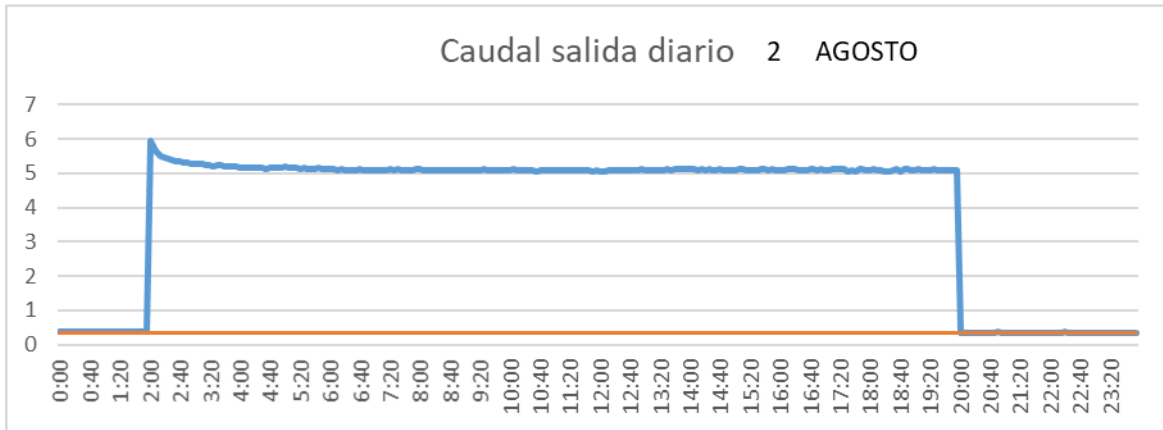
CUENCA



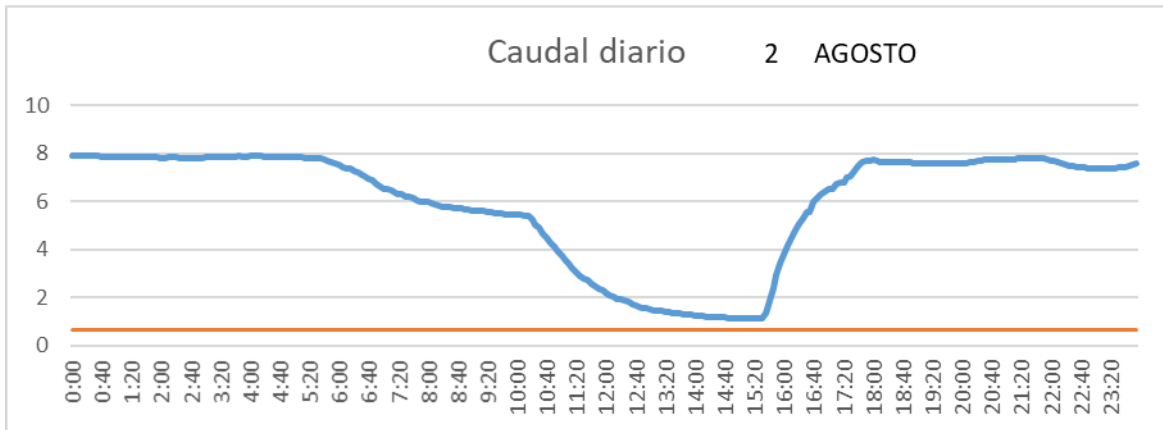
SAN LORENZO PARRILLA



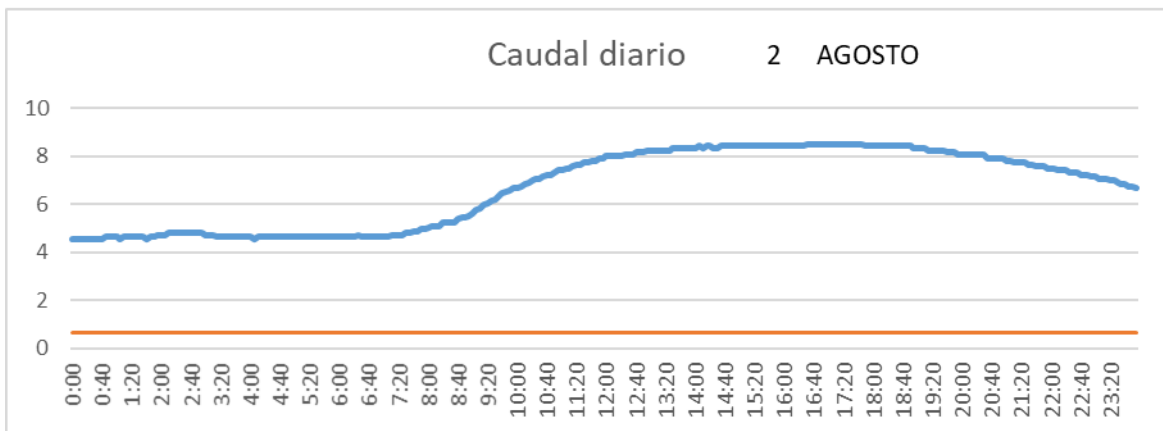
SALIDA TOBA



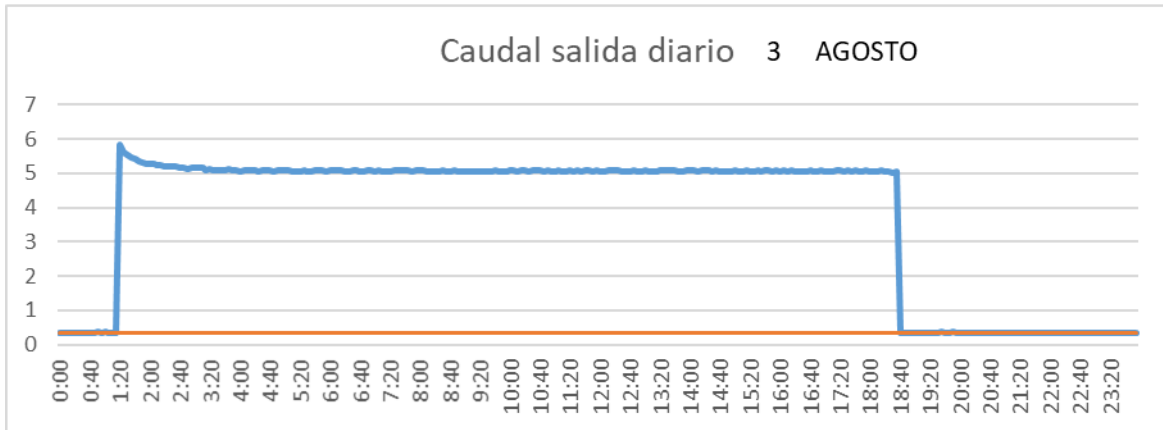
CUENCA



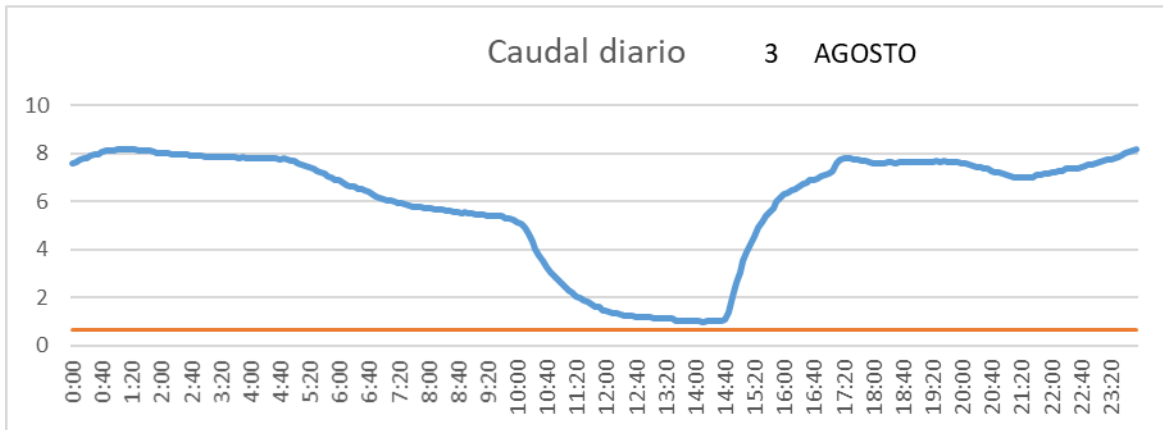
SAN LORENZO PARRILLA



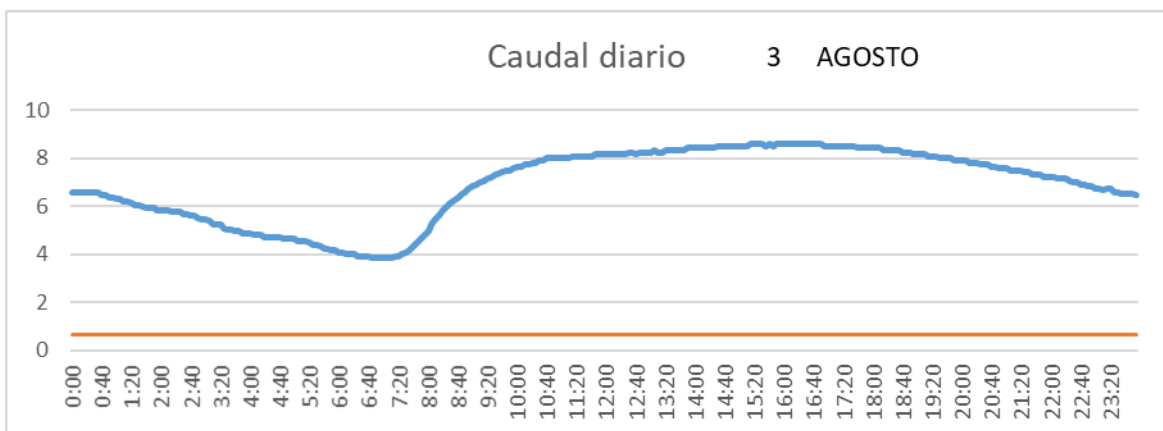
SALIDA TOBA



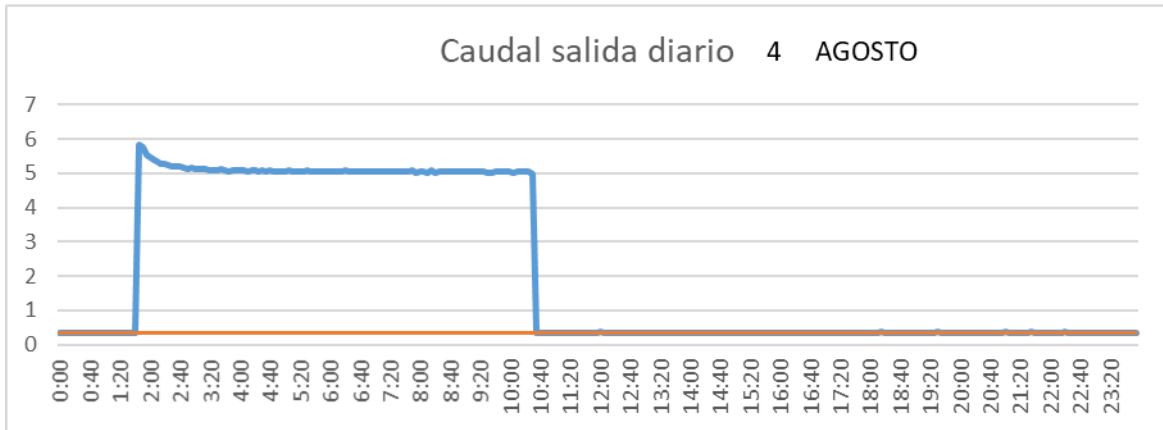
CUENCA



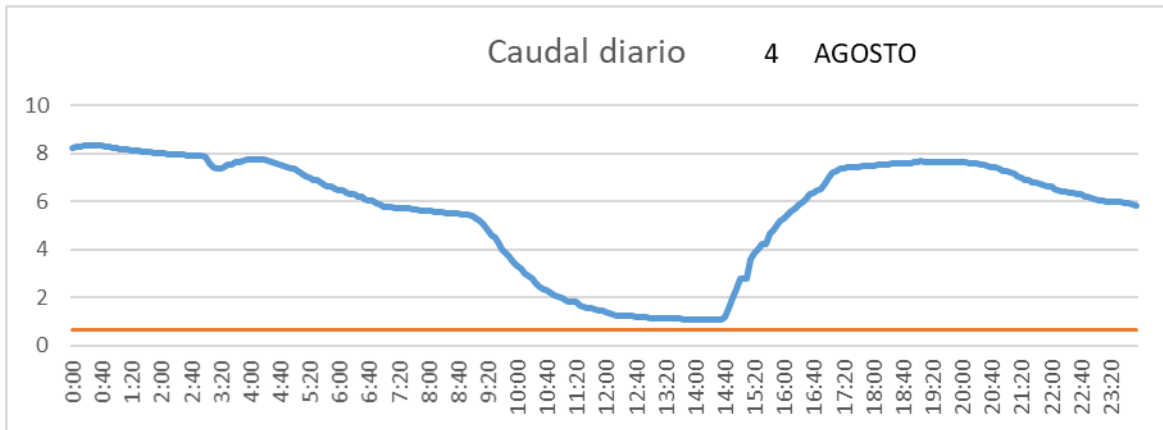
SAN LORENZO PARRILLA



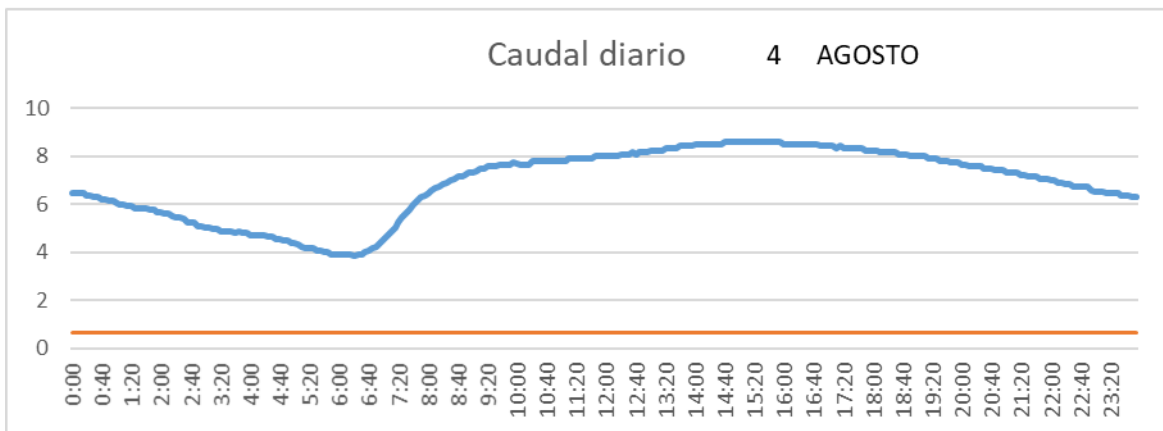
SALIDA TOBA



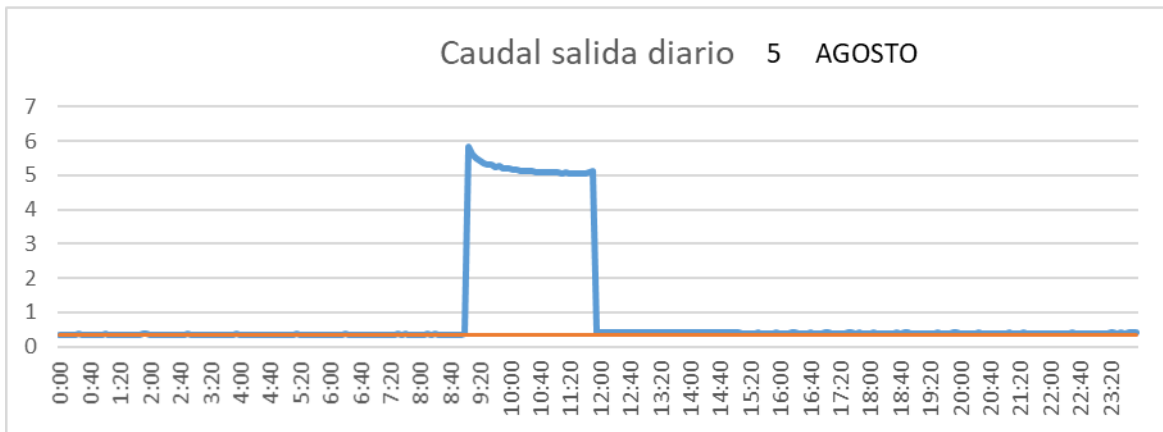
CUENCA



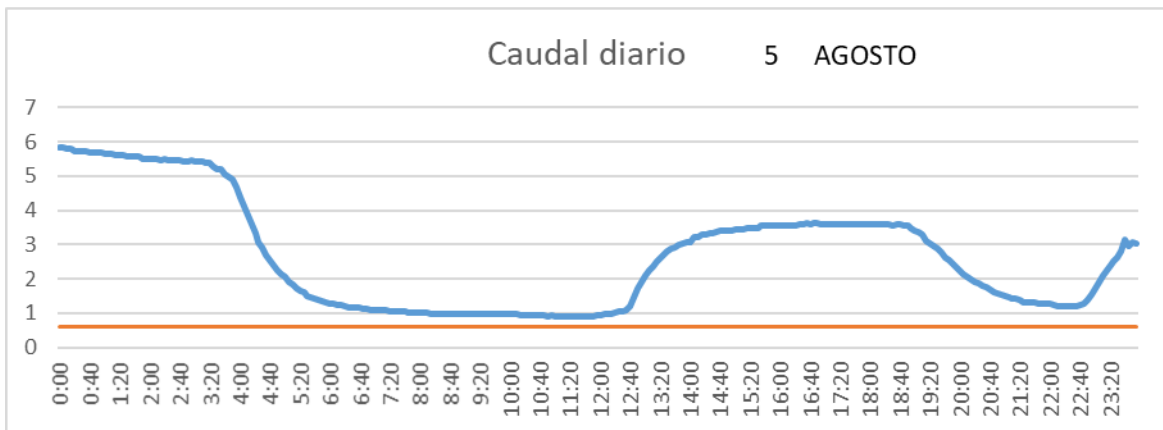
SAN LORENZO PARRILLA



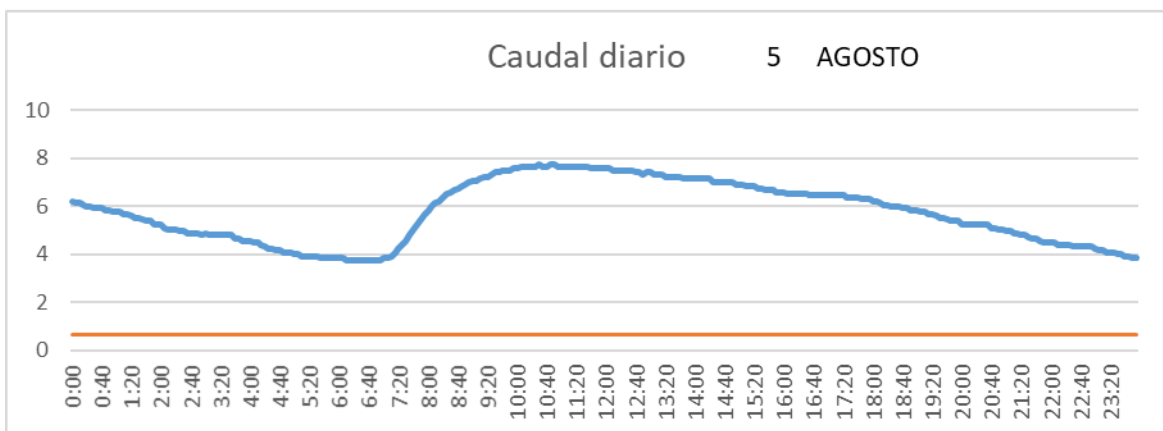
SALIDA TOBA



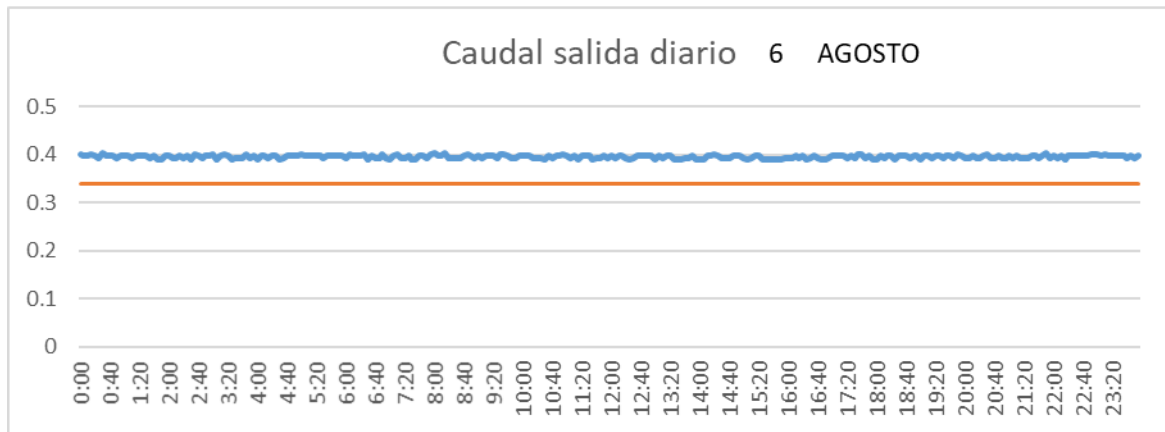
CUENCA



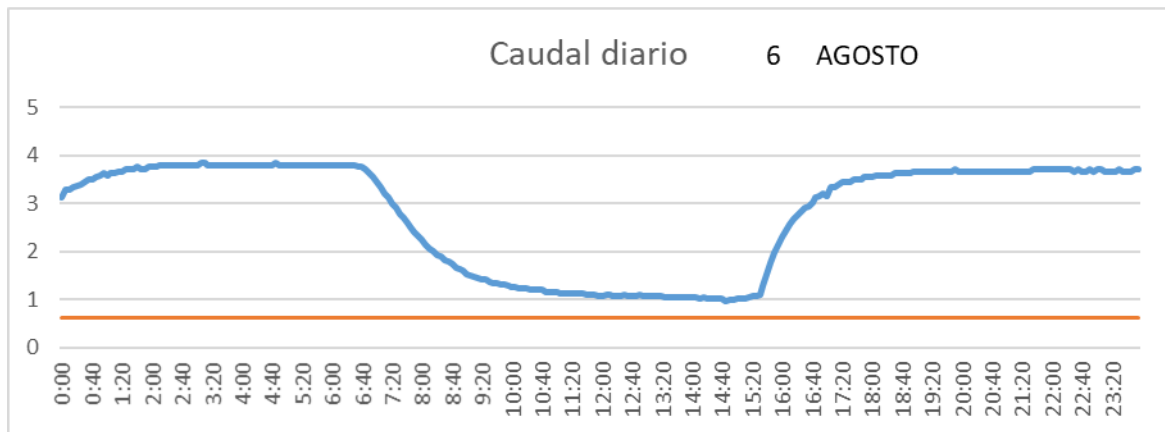
SAN LORENZO PARRILLA



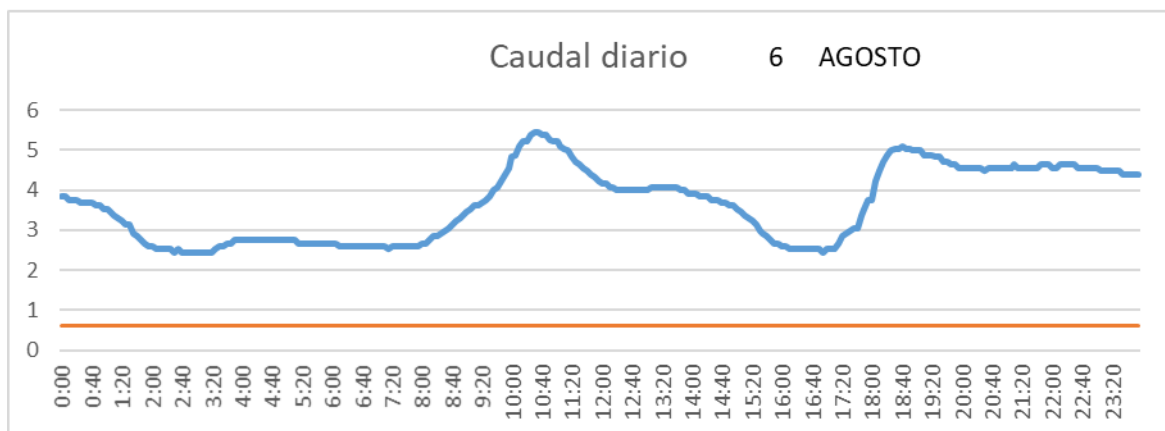
SALIDA TOBA



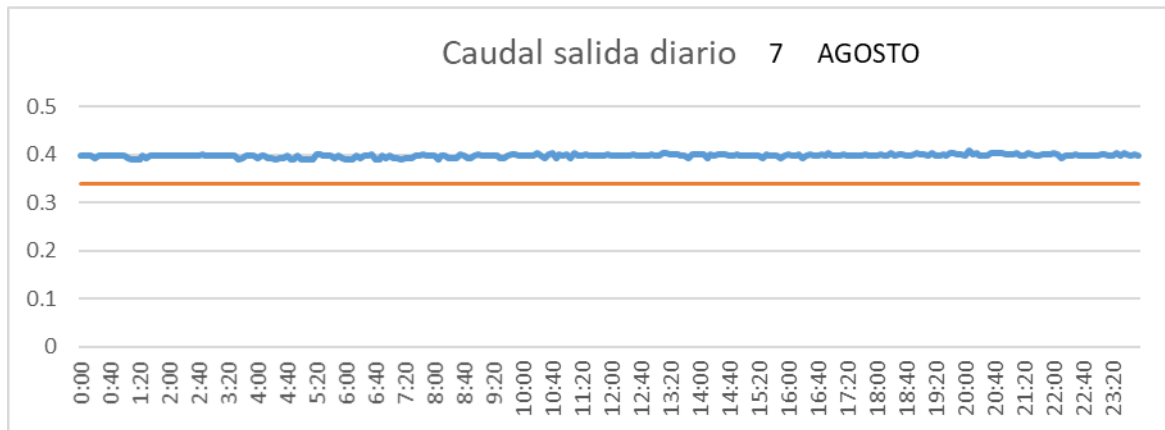
CUENCA



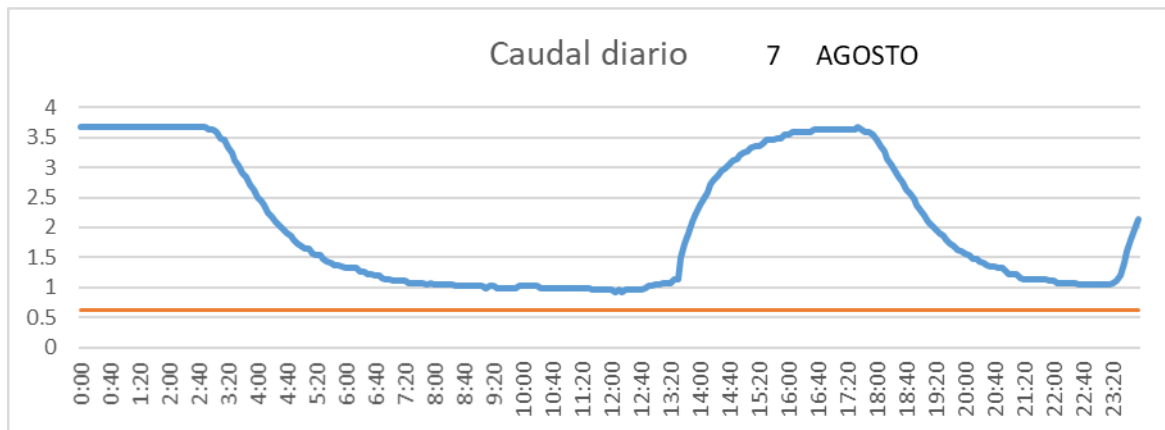
SAN LORENZO PARRILLA



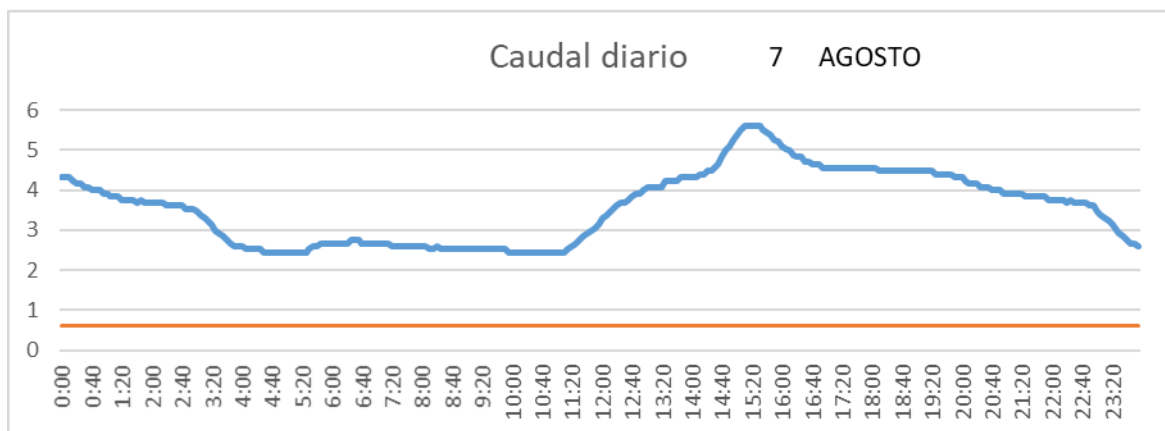
SALIDA TOBA



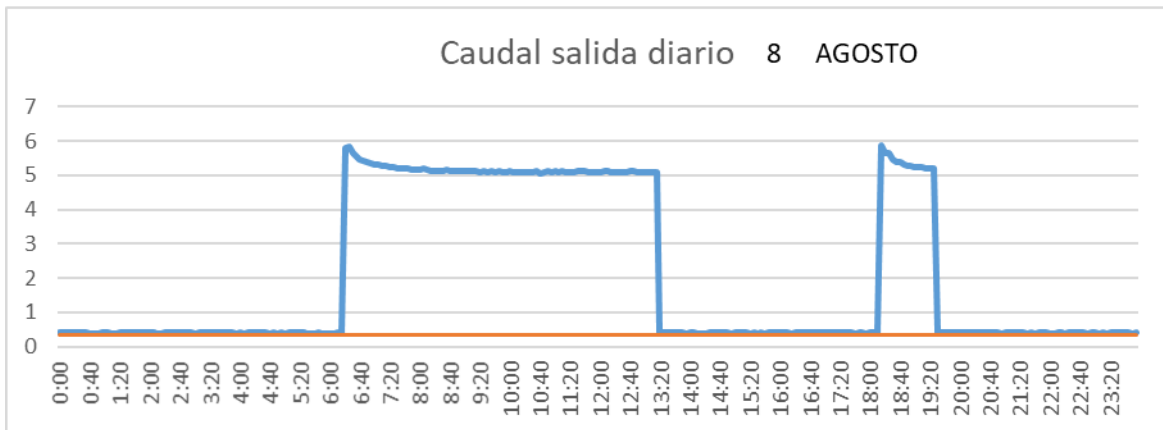
CUENCA



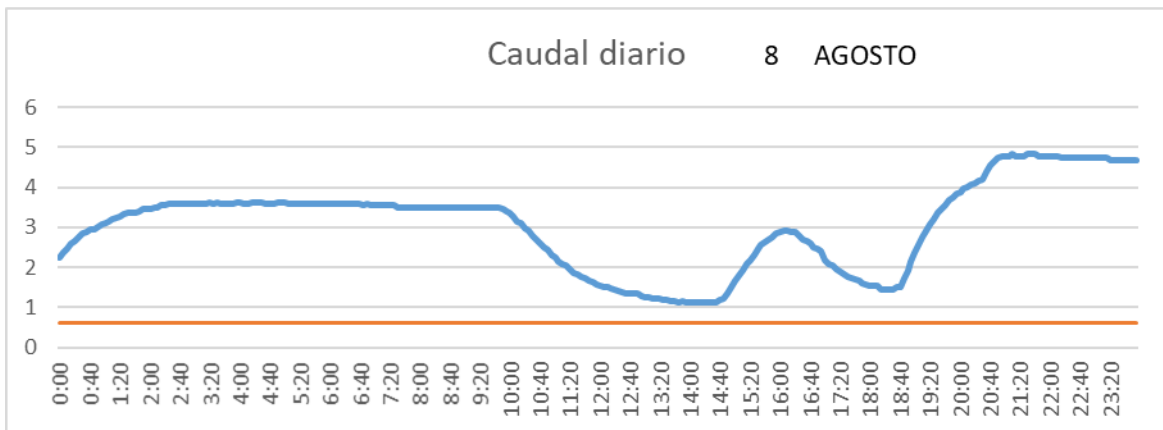
SAN LORENZO PARRILLA



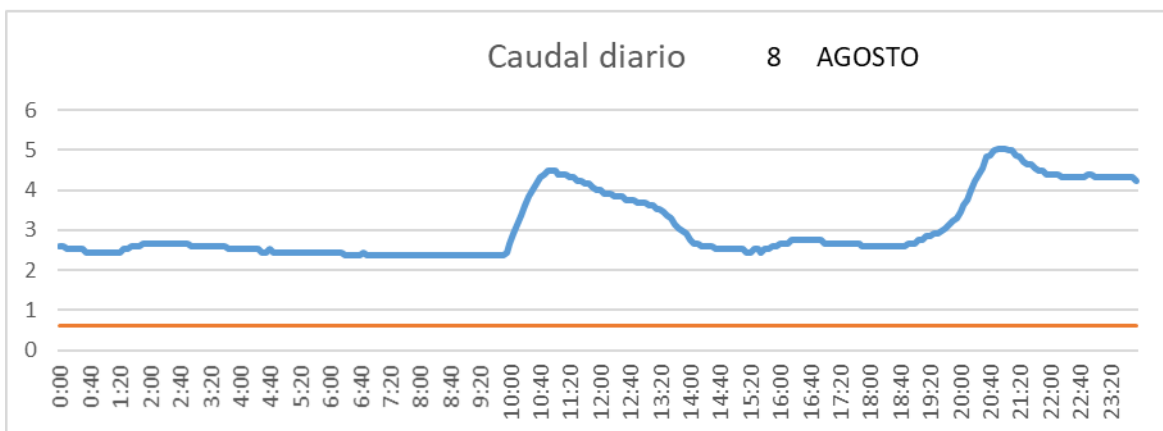
SALIDA TOBA



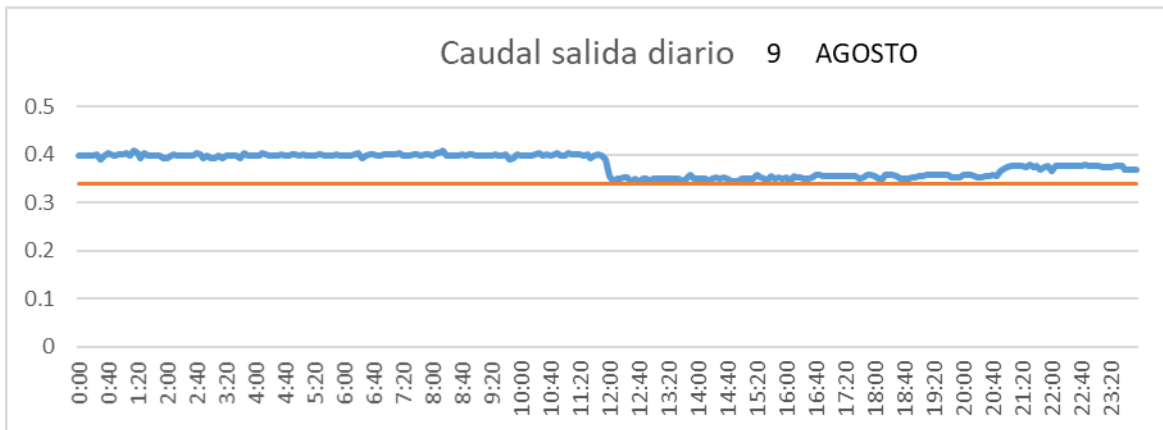
CUENCA



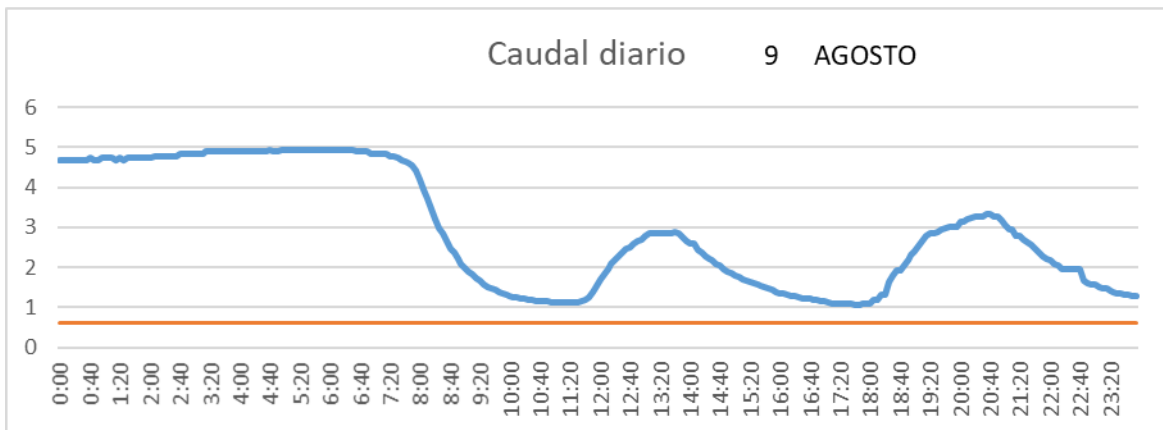
SAN LORENZO PARRILLA



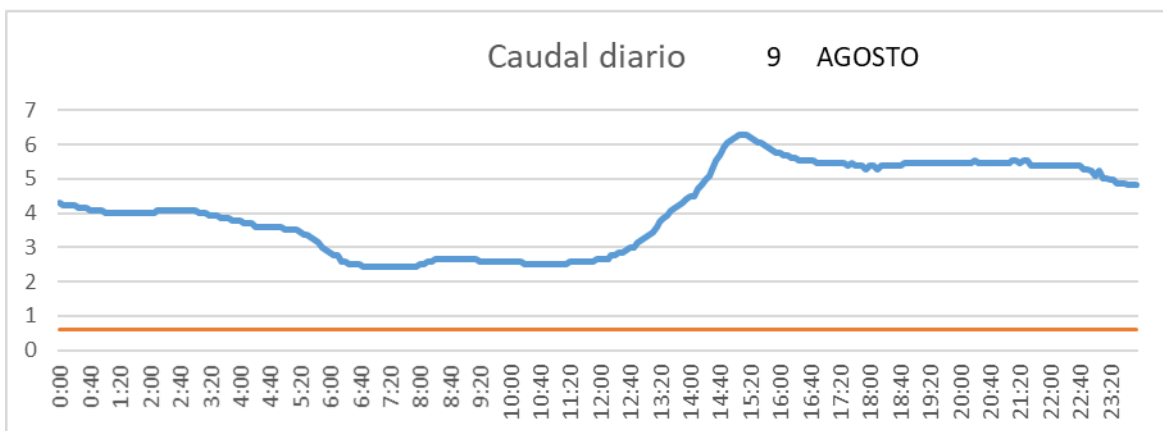
SALIDA TOBA



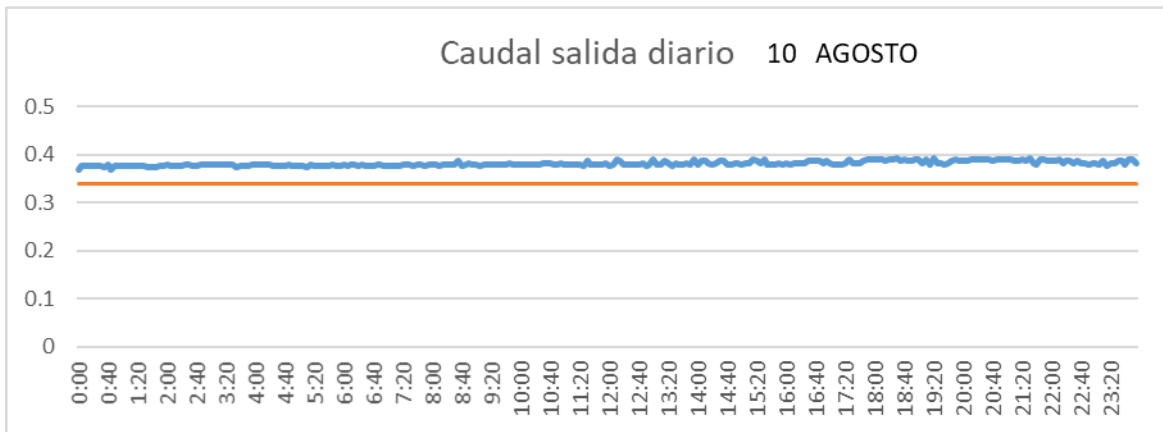
CUENCA



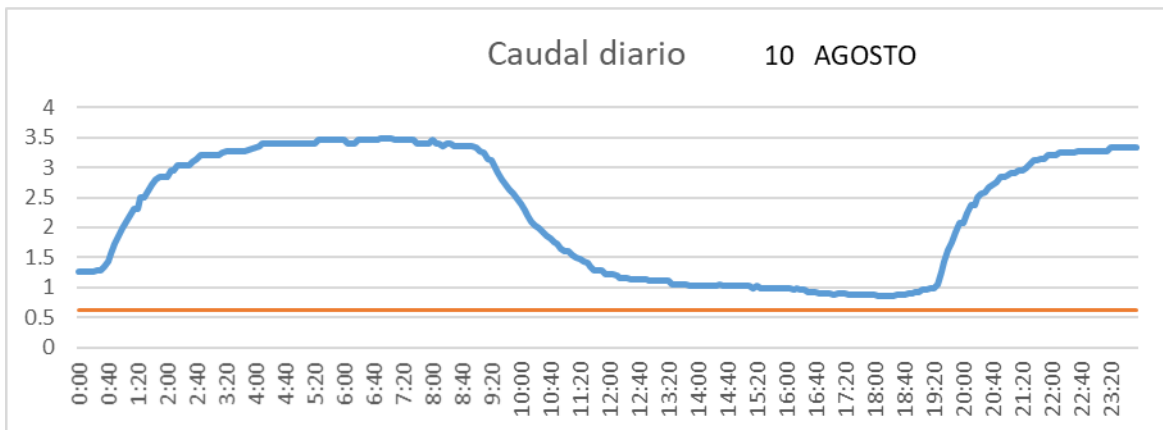
SAN LORENZO PARRILLA



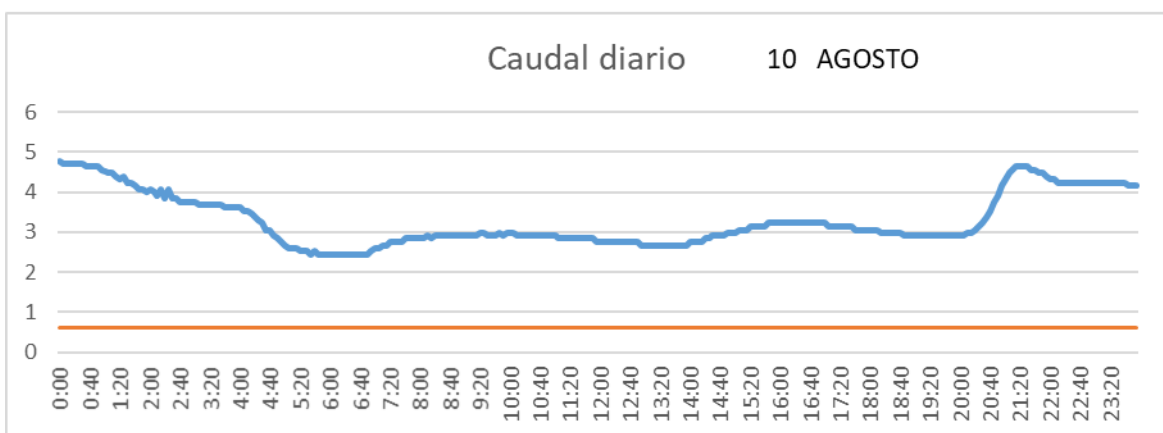
SALIDA TOBA



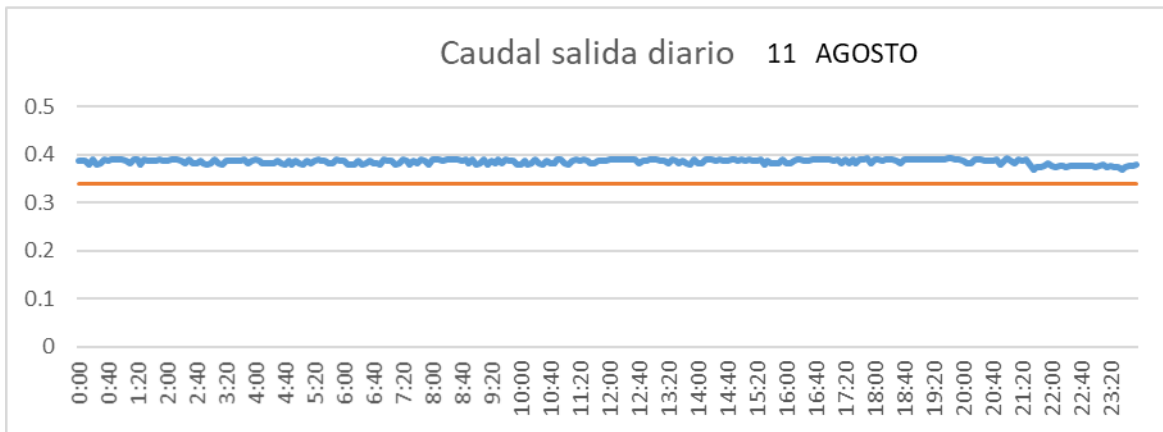
CUENCA



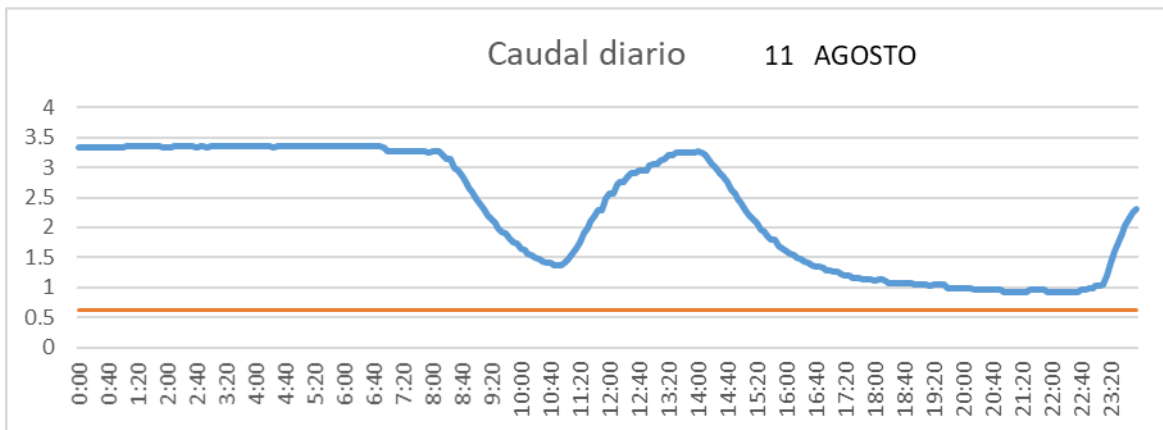
SAN LORENZO PARRILLA



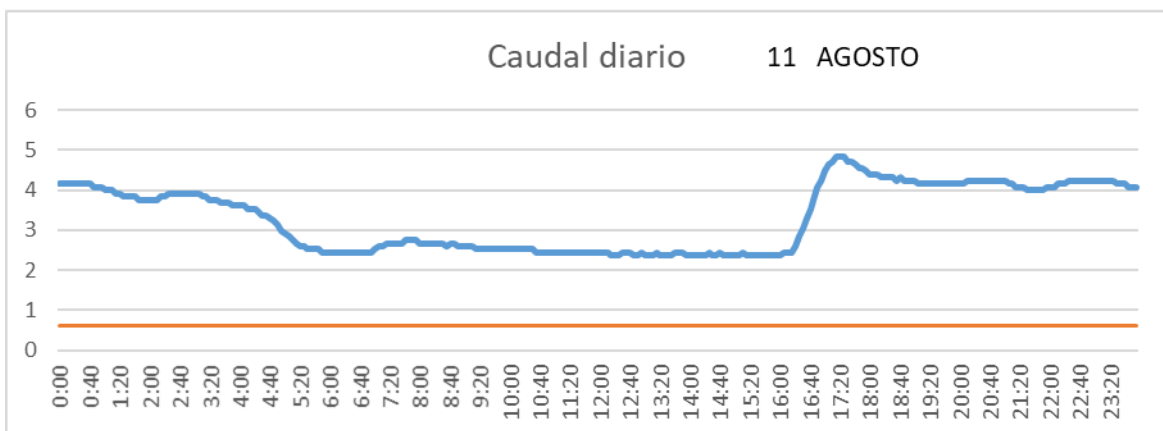
SALIDA TOBA



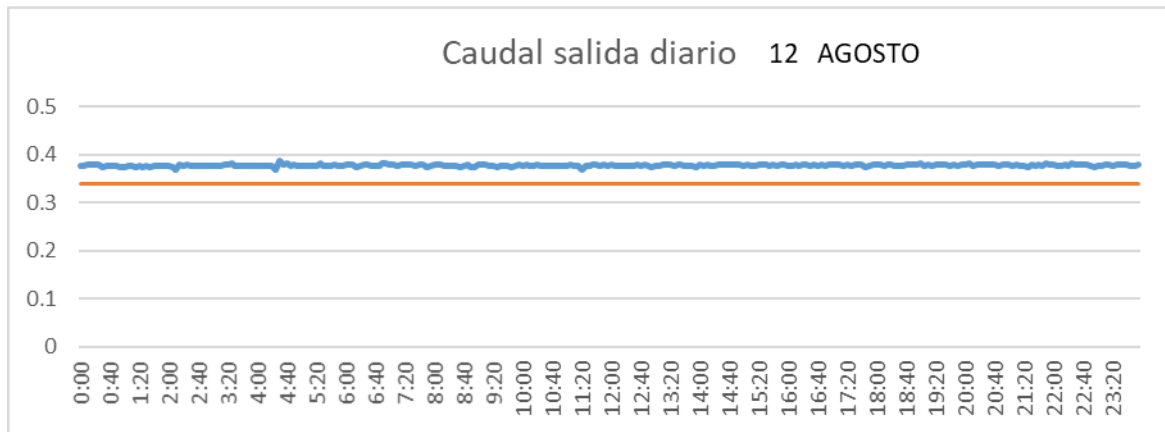
CUENCA



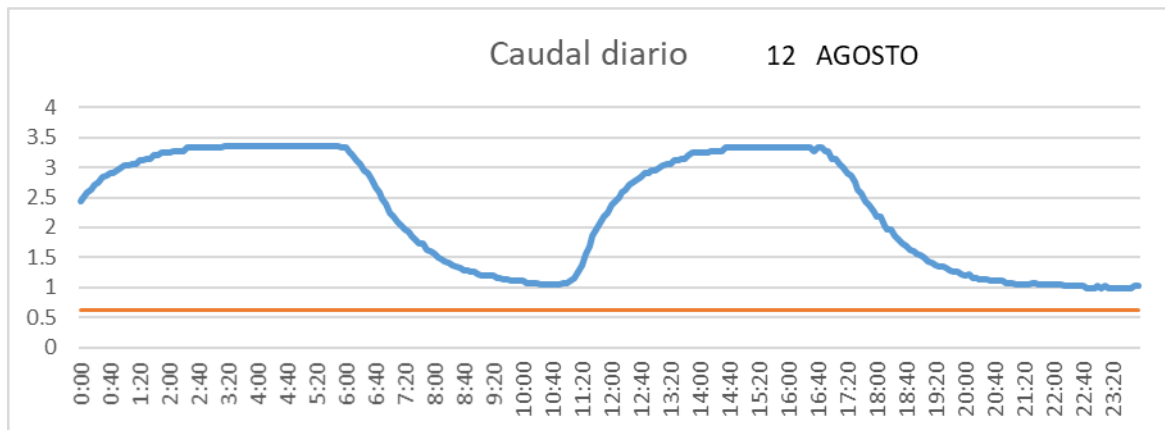
SAN LORENZO PARRILLA



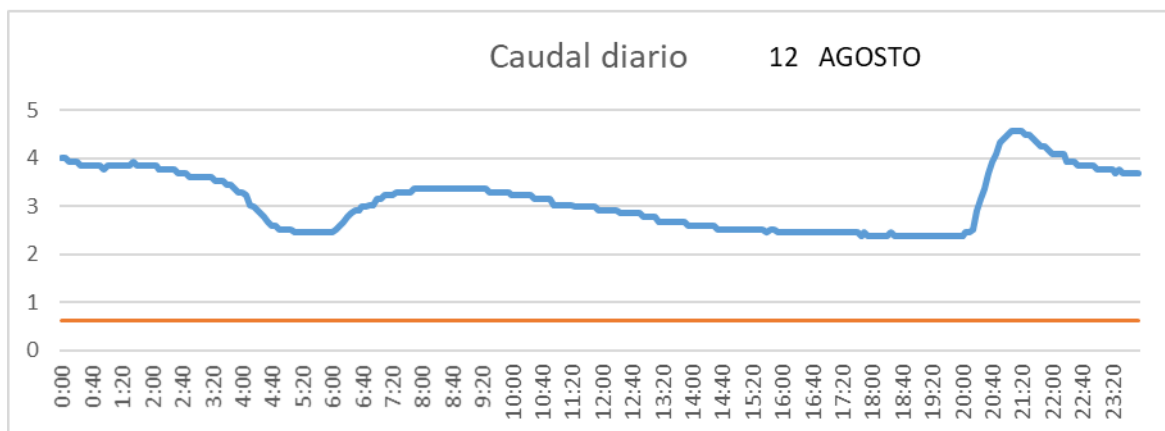
SALIDA TOBA



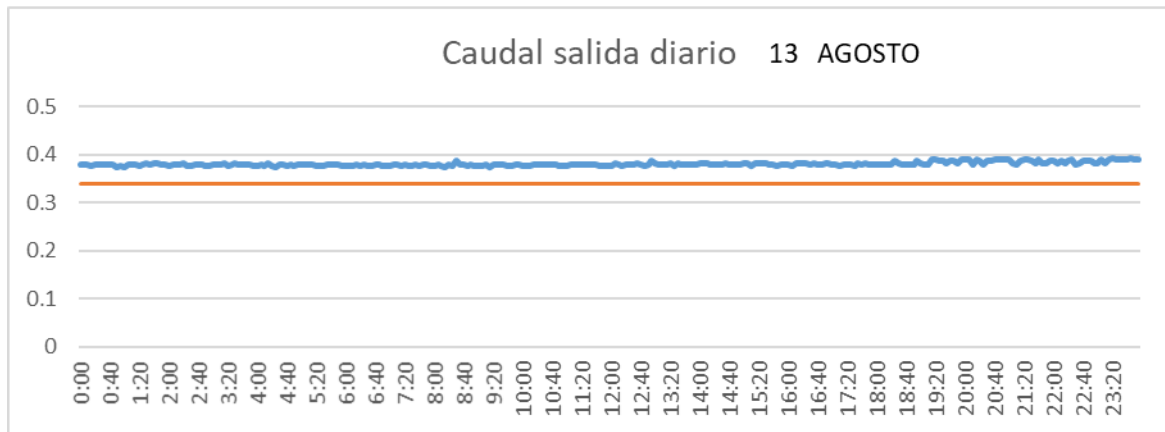
CUENCA



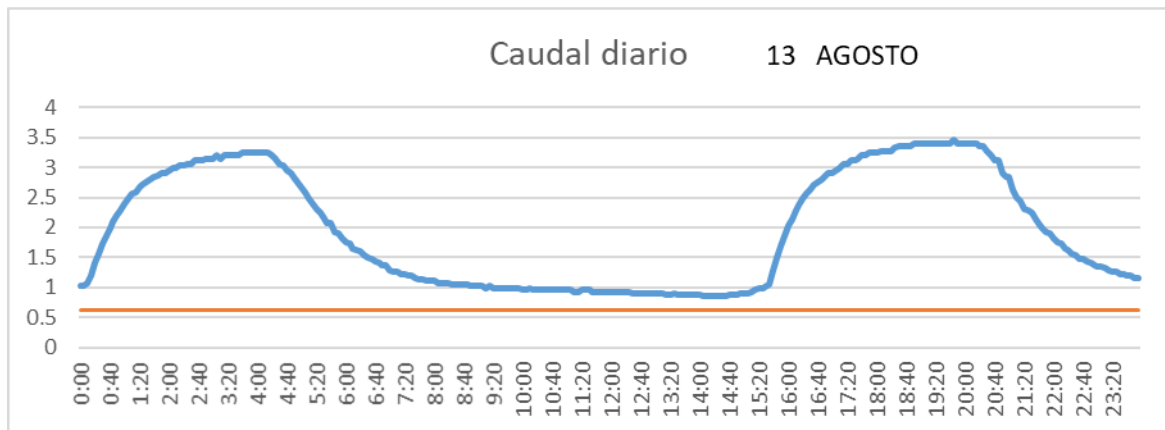
SAN LORENZO PARRILLA



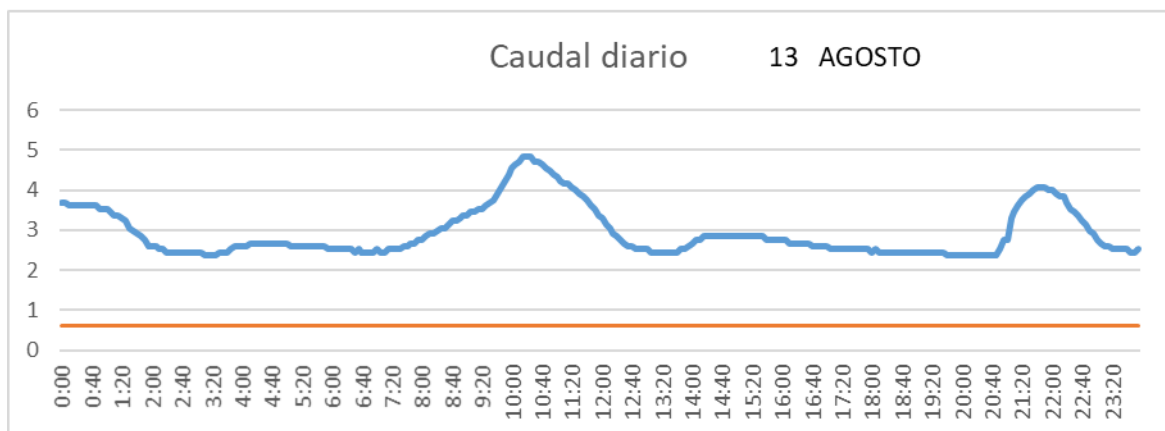
SALIDA TOBA



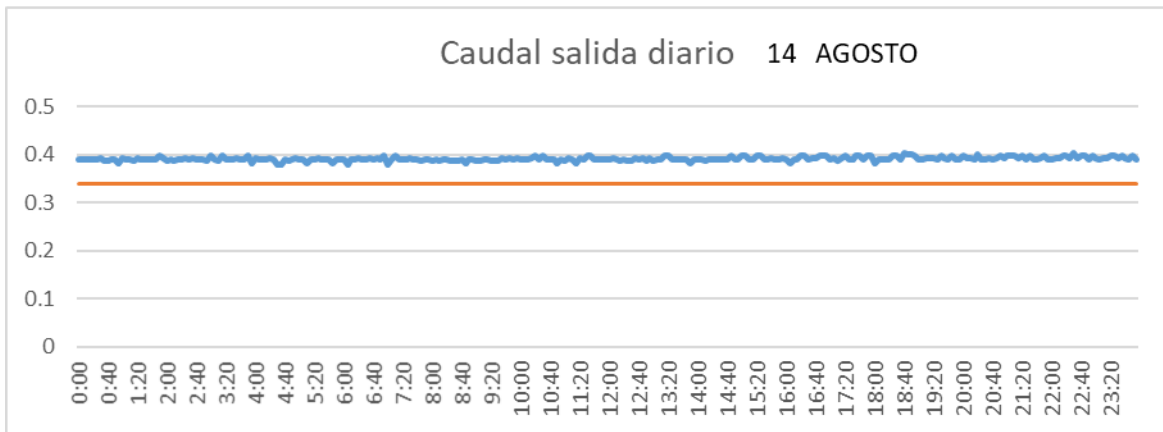
CUENCA



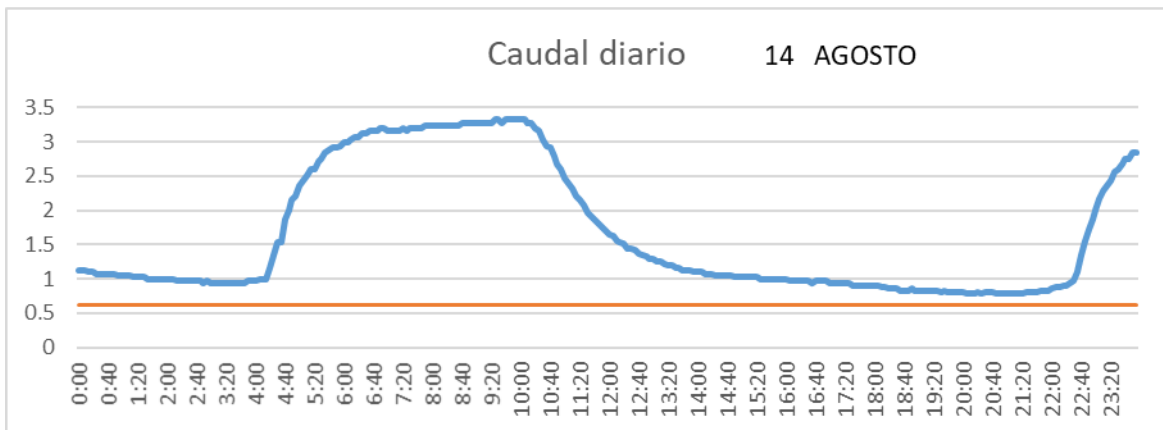
SAN LORENZO PARRILLA



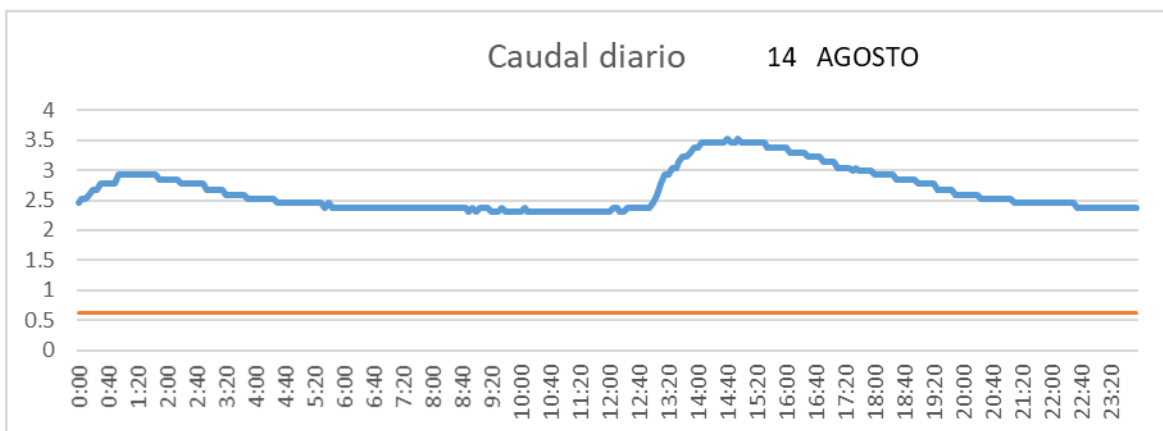
SALIDA TOBA



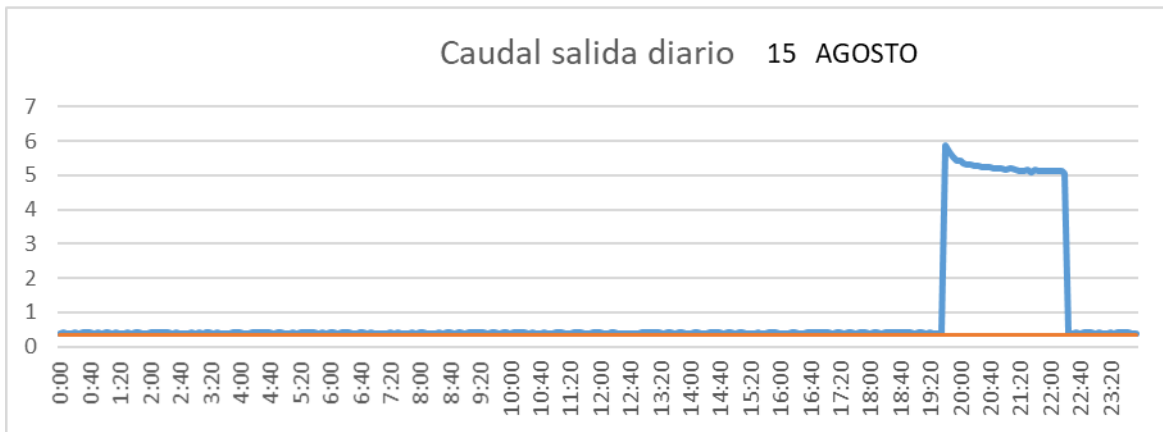
CUENCA



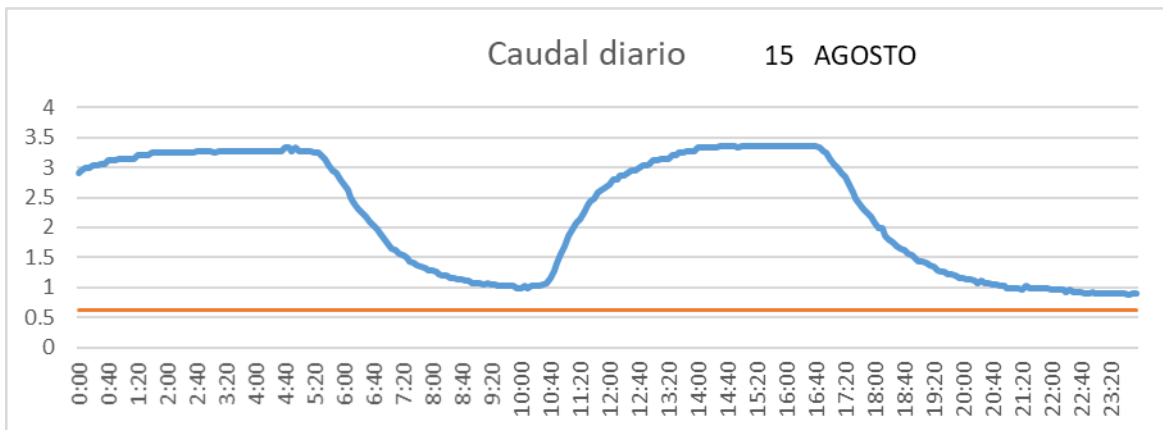
SAN LORENZO PARRILLA



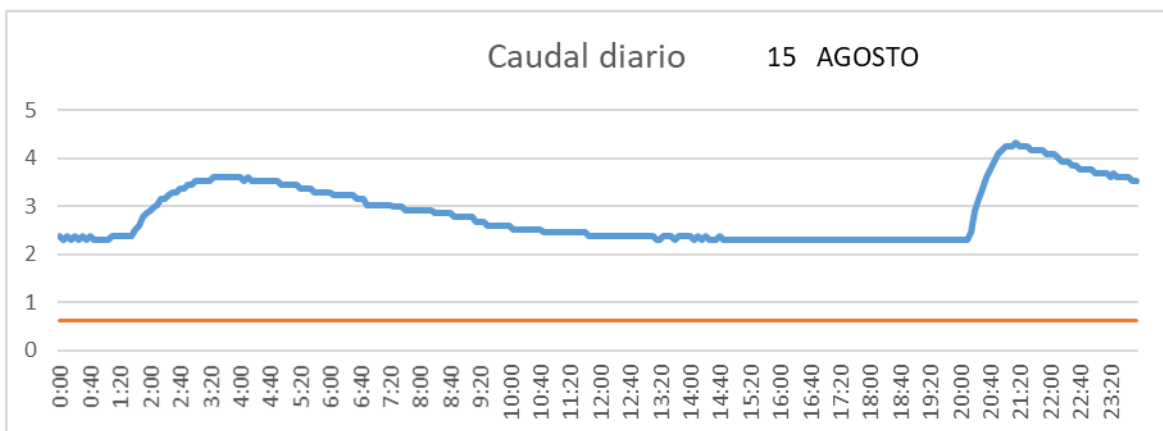
SALIDA TOBA



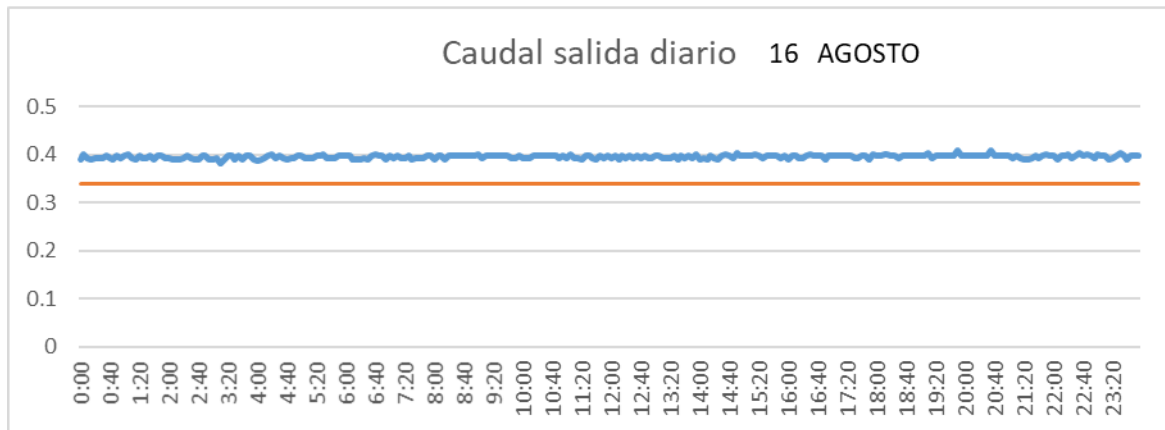
CUENCA



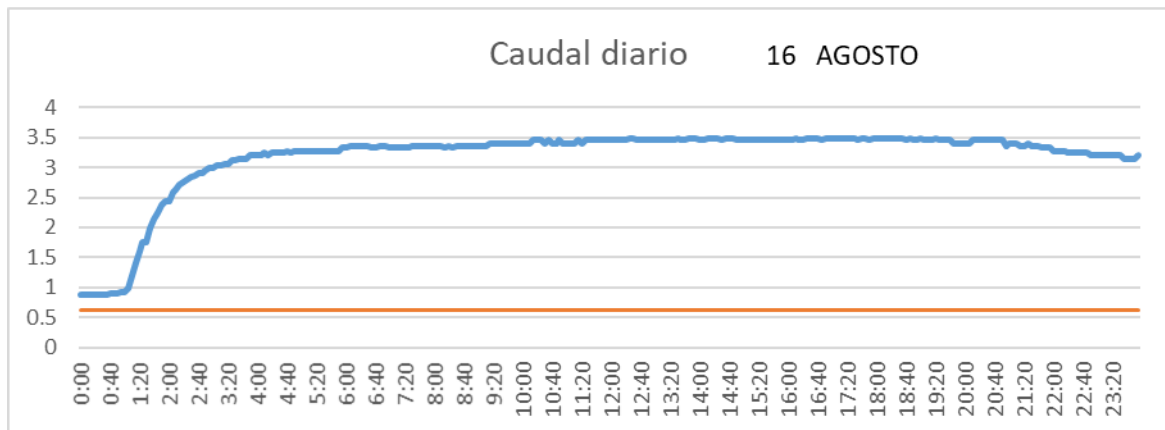
SAN LORENZO PARRILLA



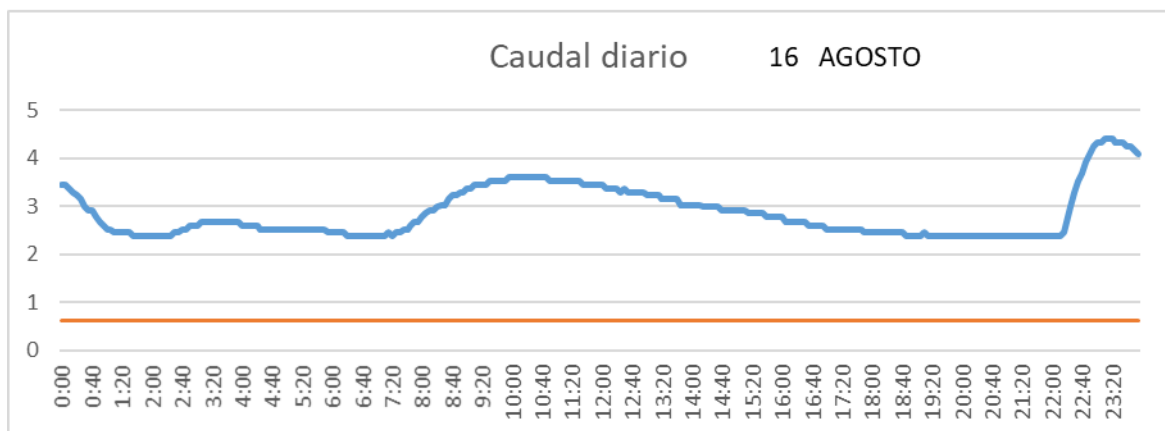
SALIDA TOBA



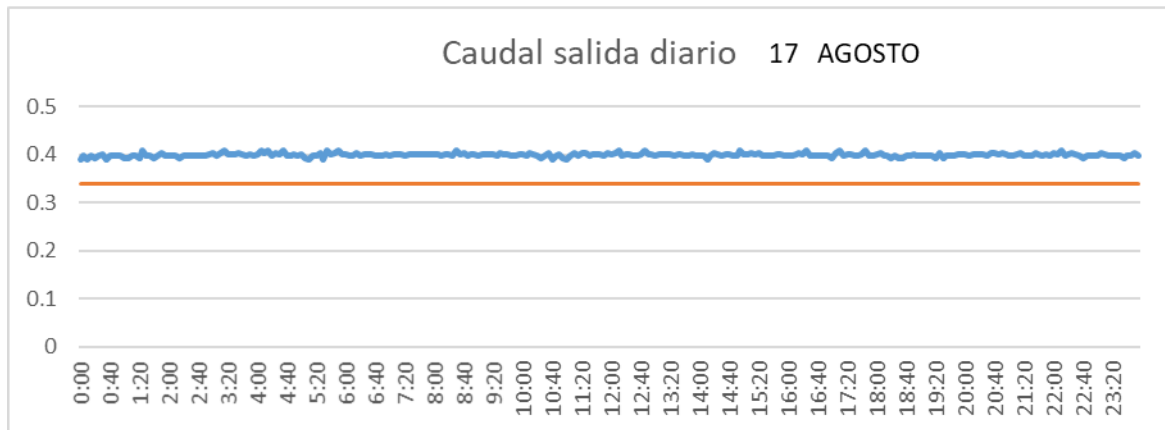
CUENCA



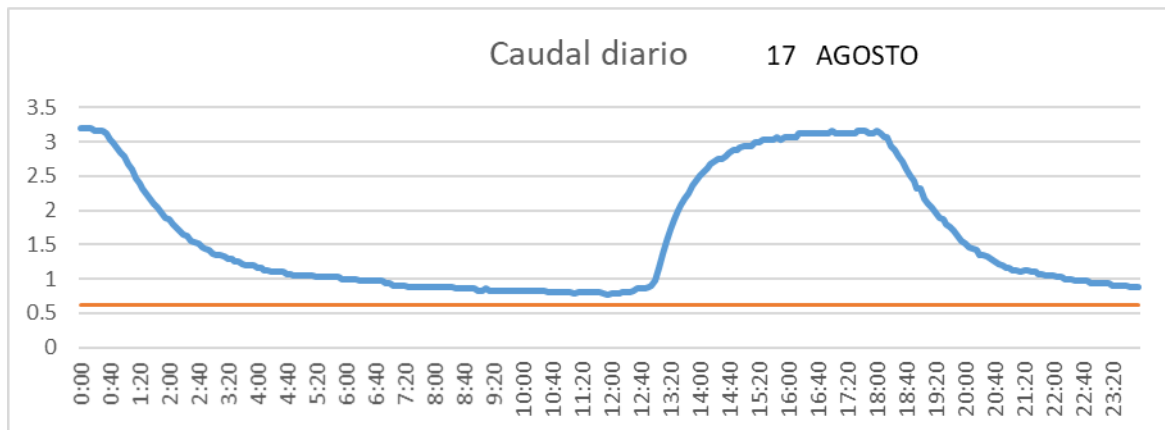
SAN LORENZO PARRILLA



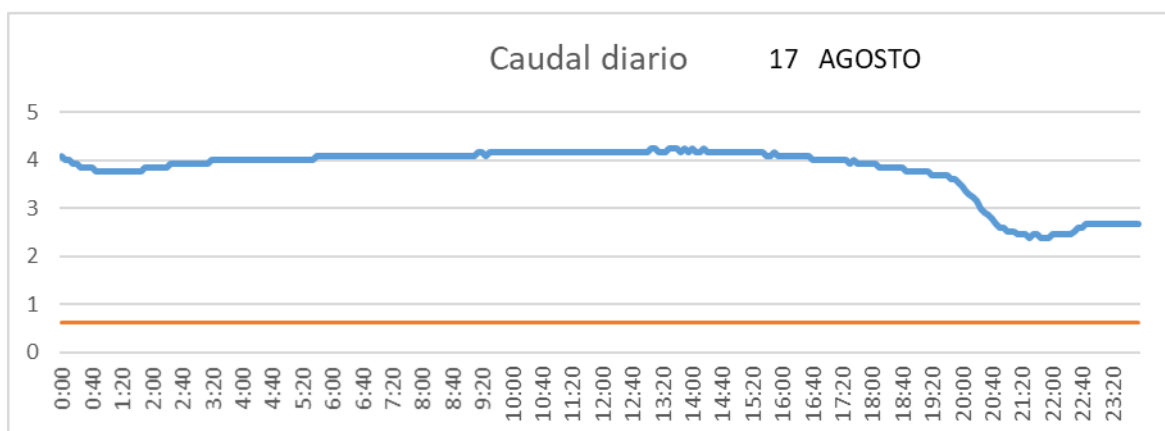
SALIDA TOBA



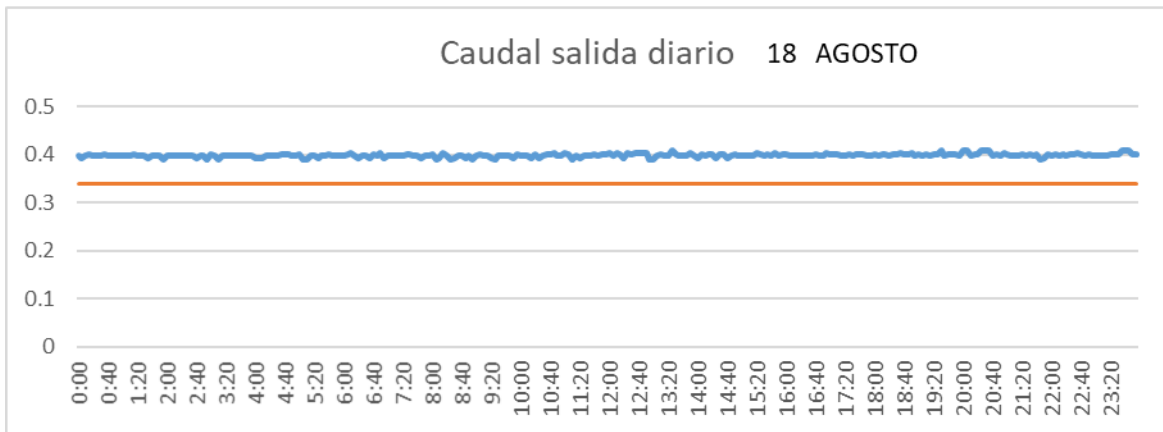
CUENCA



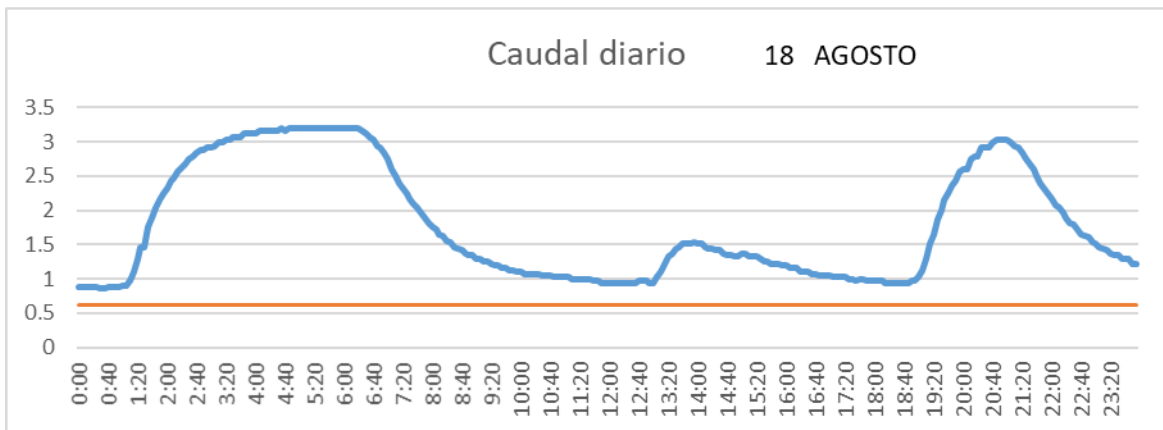
SAN LORENZO PARRILLA



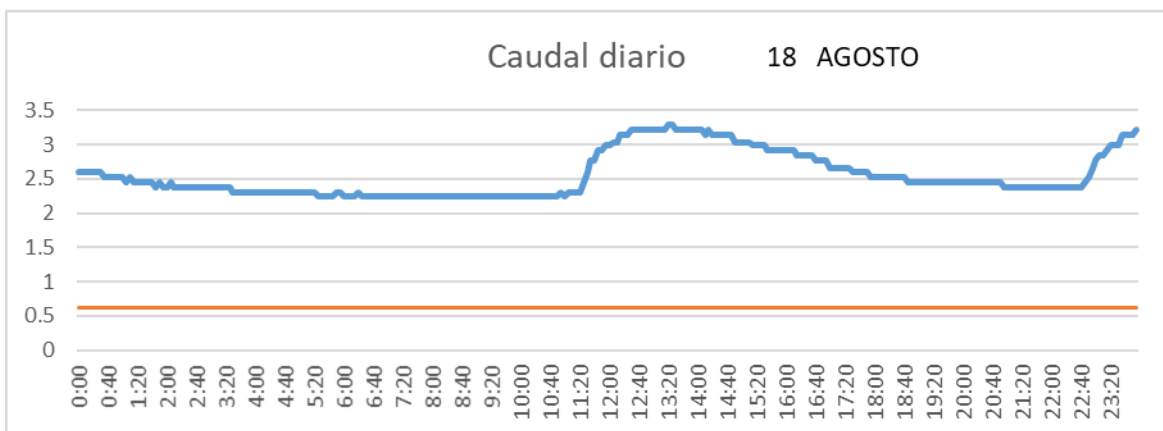
SALIDA TOBA



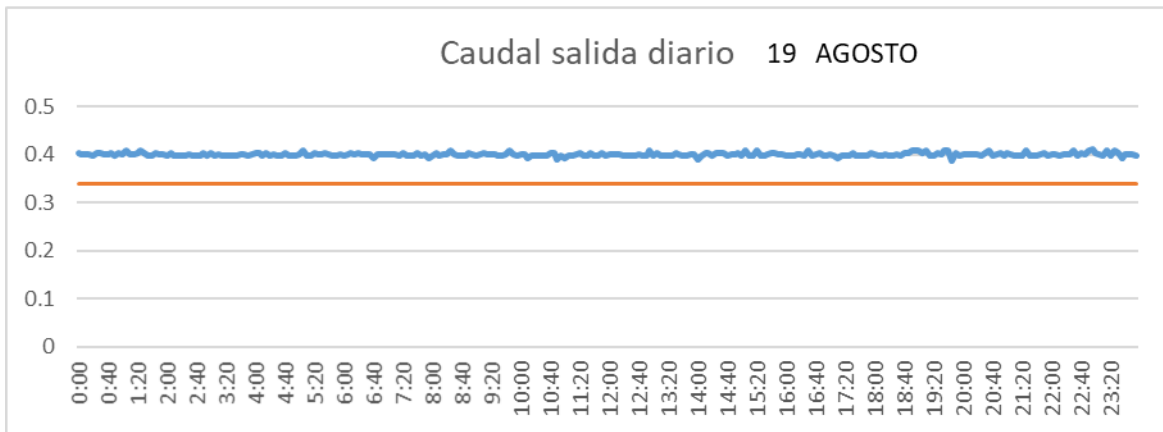
CUENCA



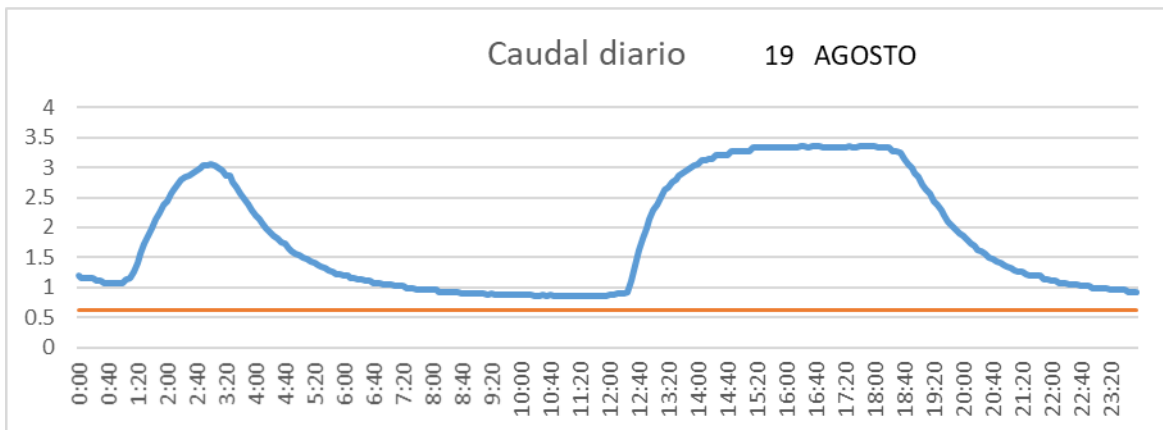
SAN LORENZO PARRILLA



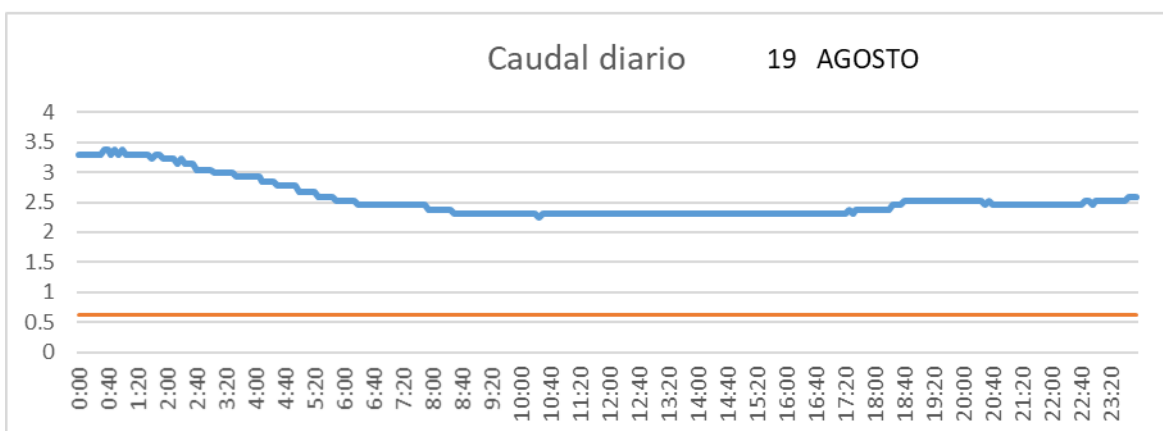
SALIDA TOBA



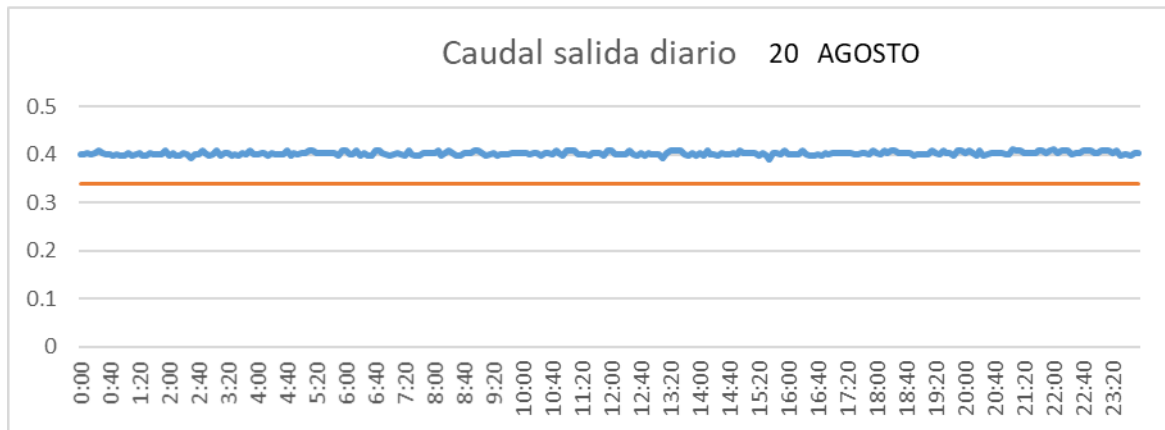
CUENCA



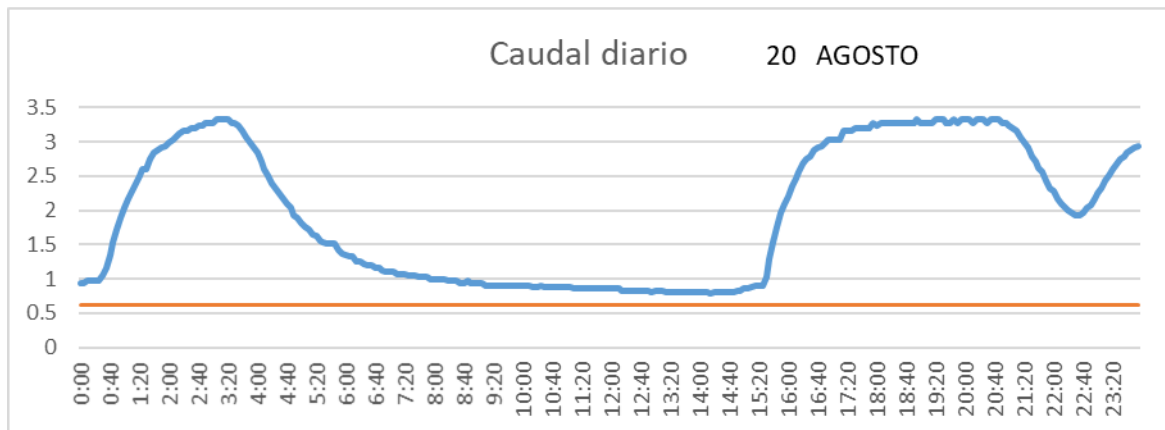
SAN LORENZO PARRILLA



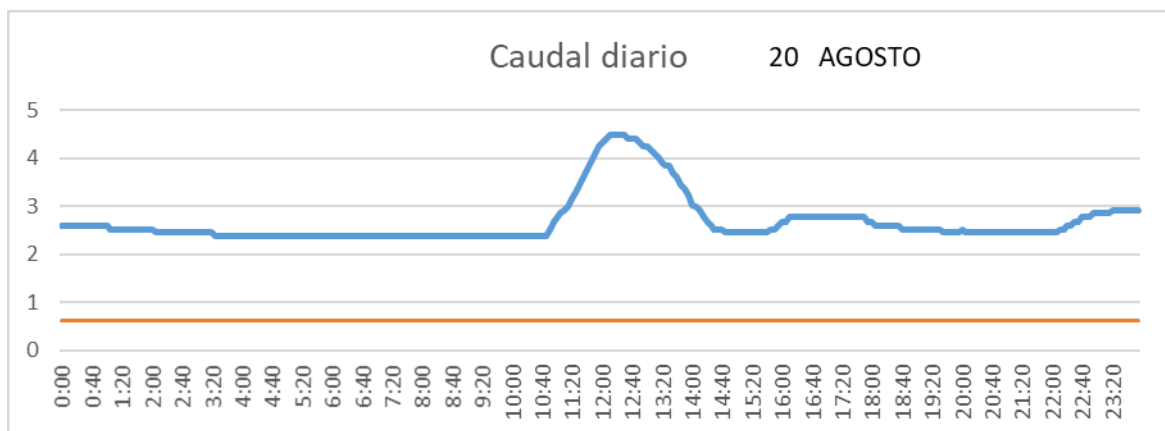
SALIDA TOBA



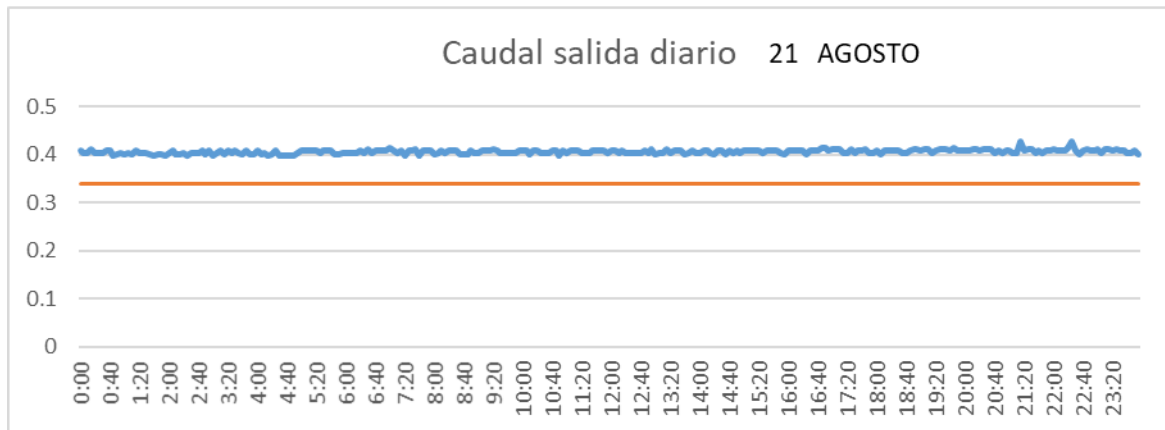
CUENCA



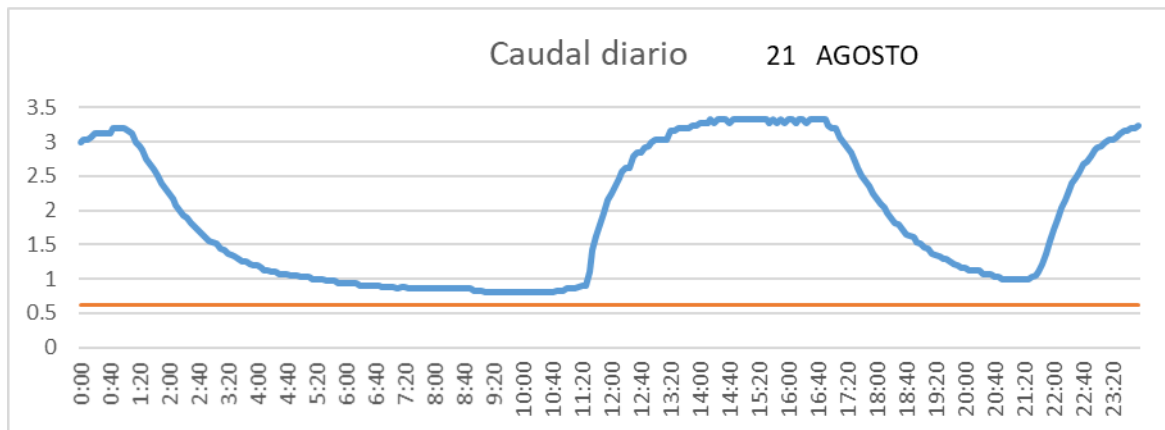
SAN LORENZO PARRILLA



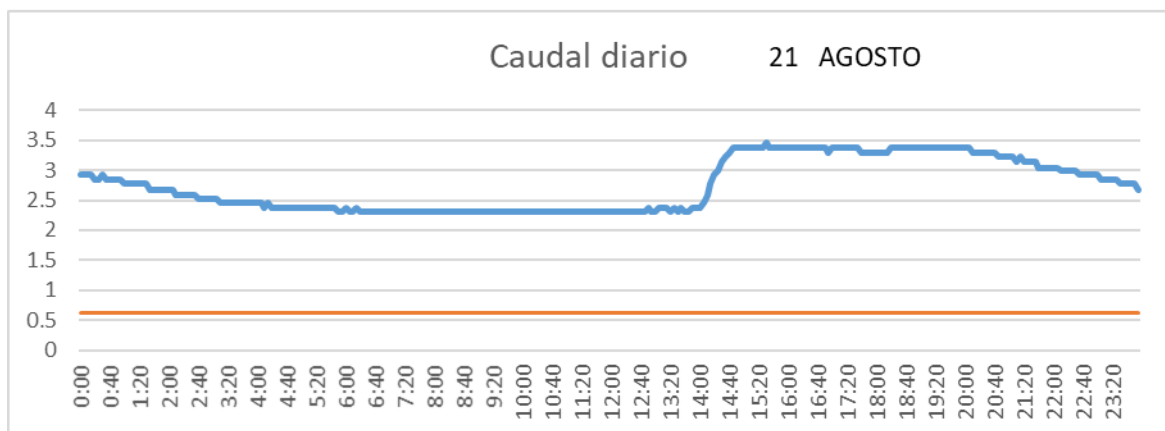
SALIDA TOBA



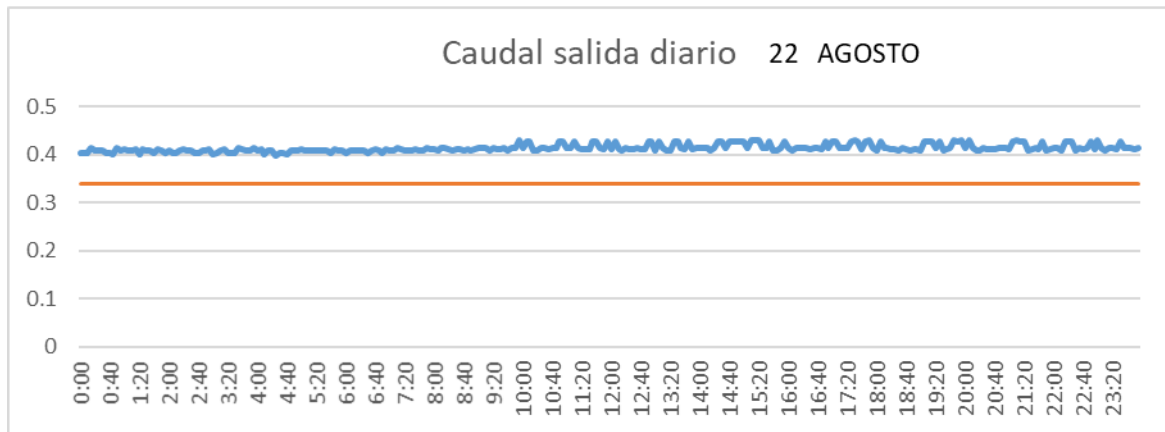
CUENCA



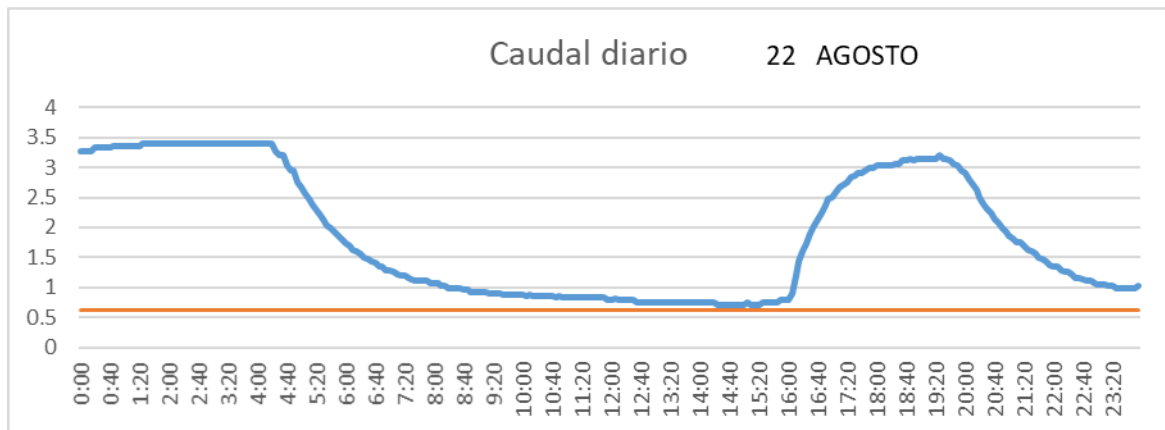
SAN LORENZO PARRILLA



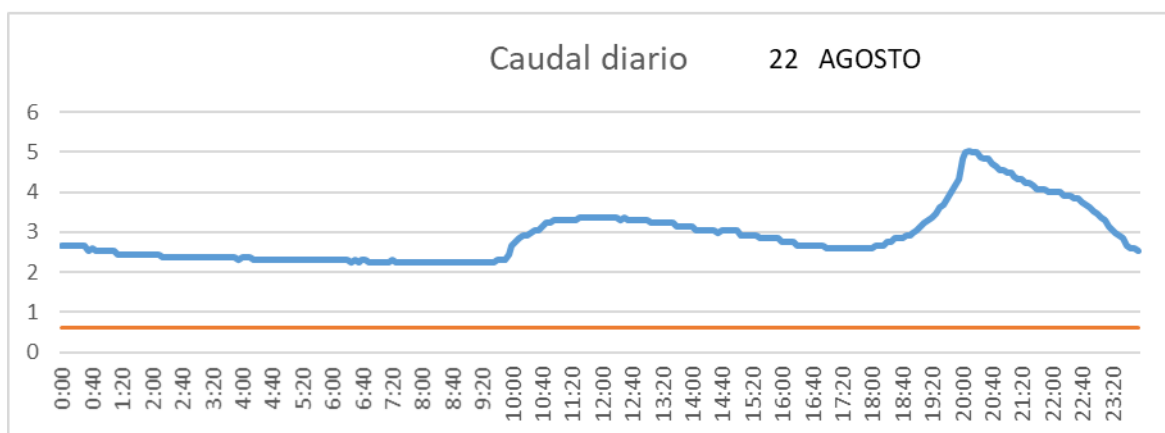
SALIDA TOBA



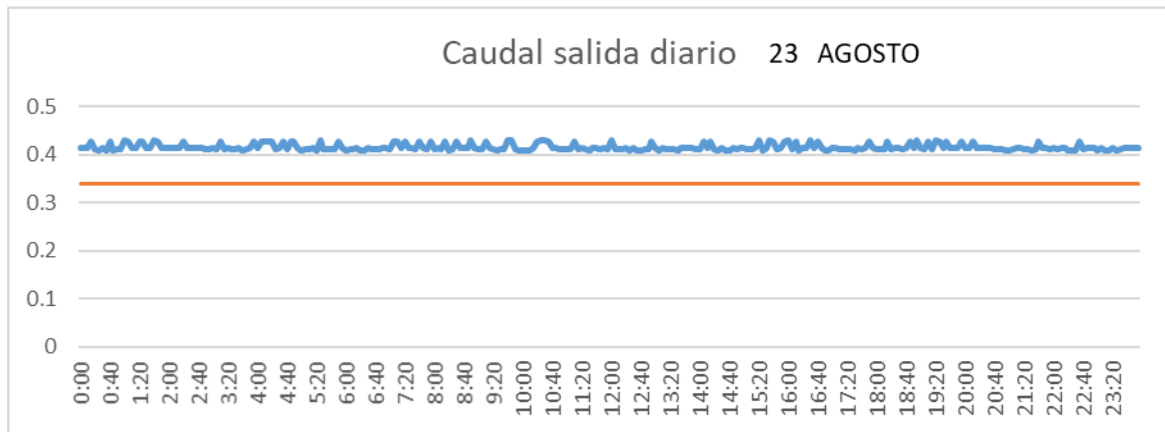
CUENCA



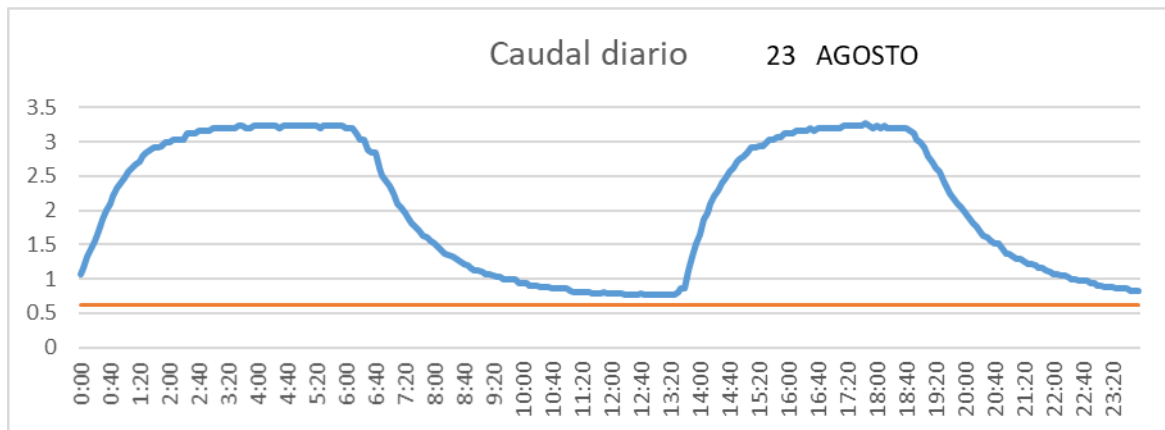
SAN LORENZO PARRILLA



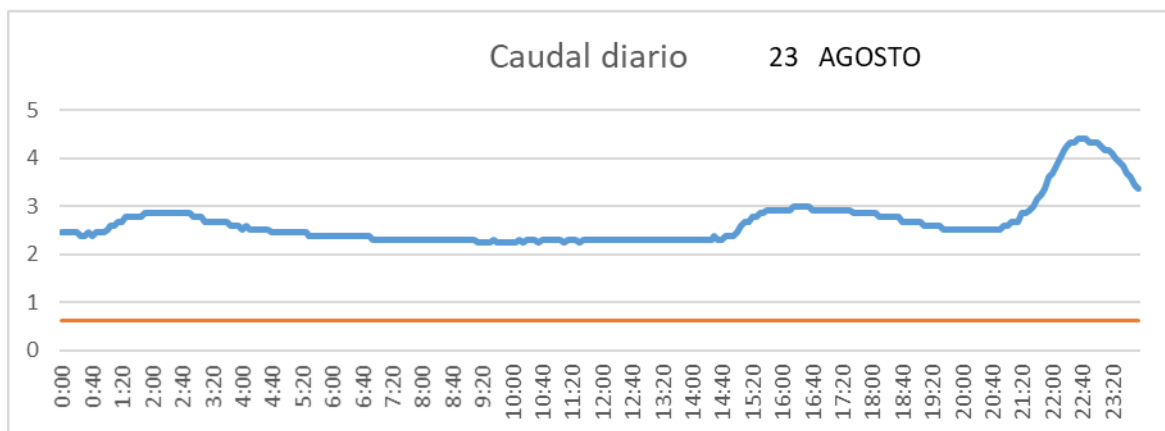
SALIDA TOBA



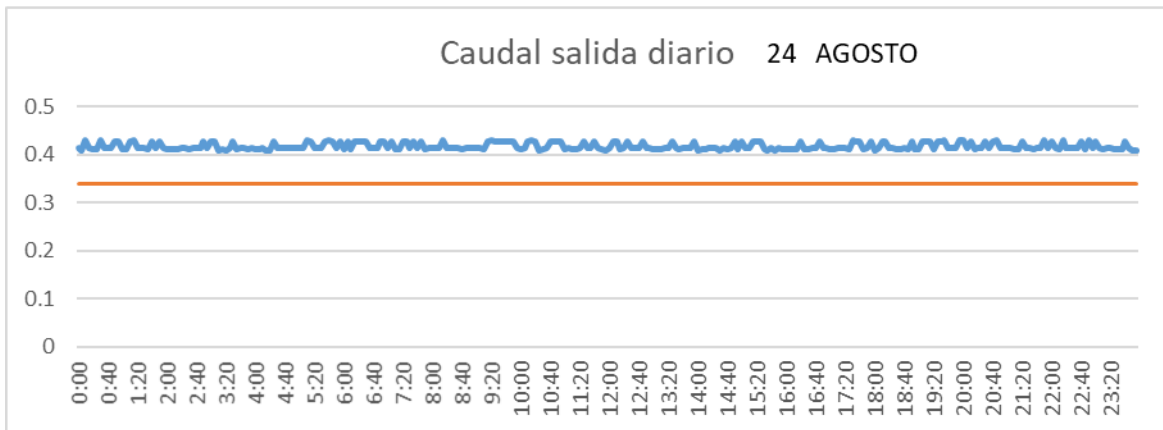
CUENCA



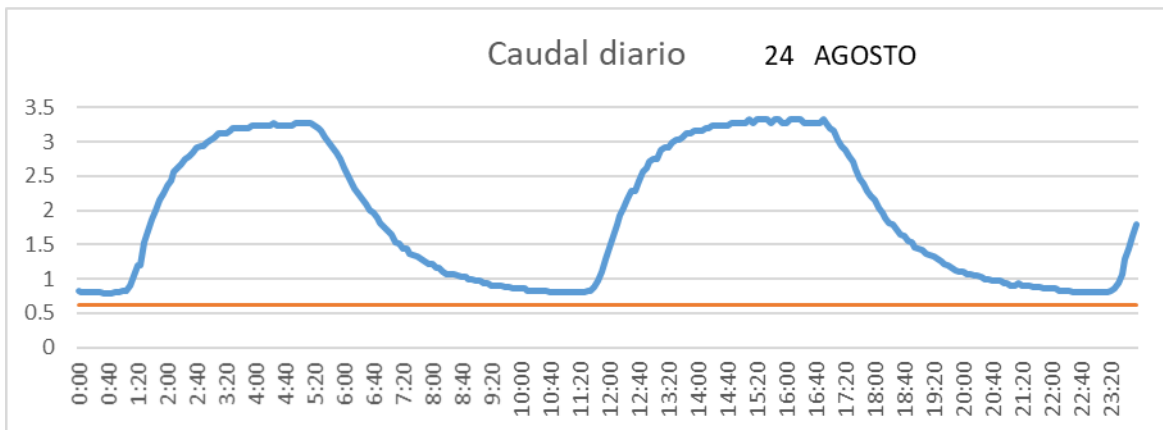
SAN LORENZO PARRILLA



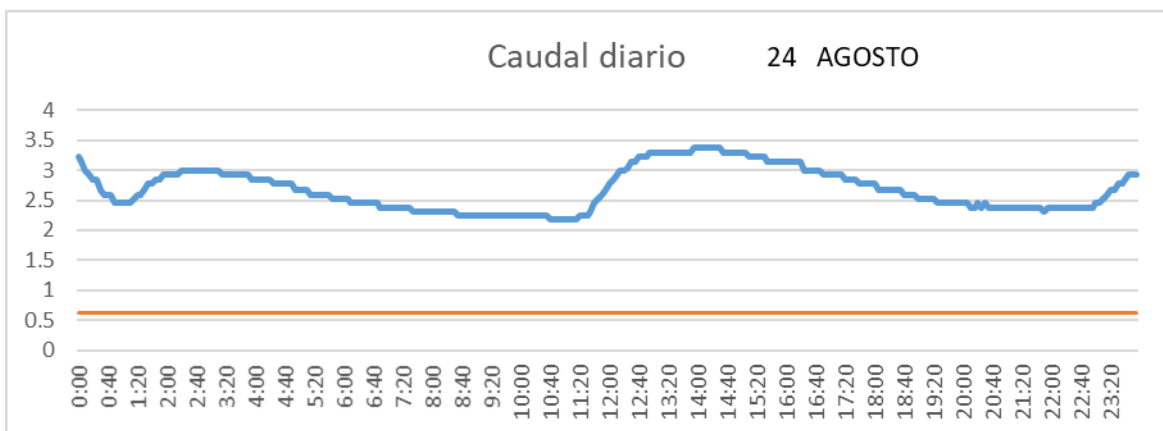
SALIDA TOBA



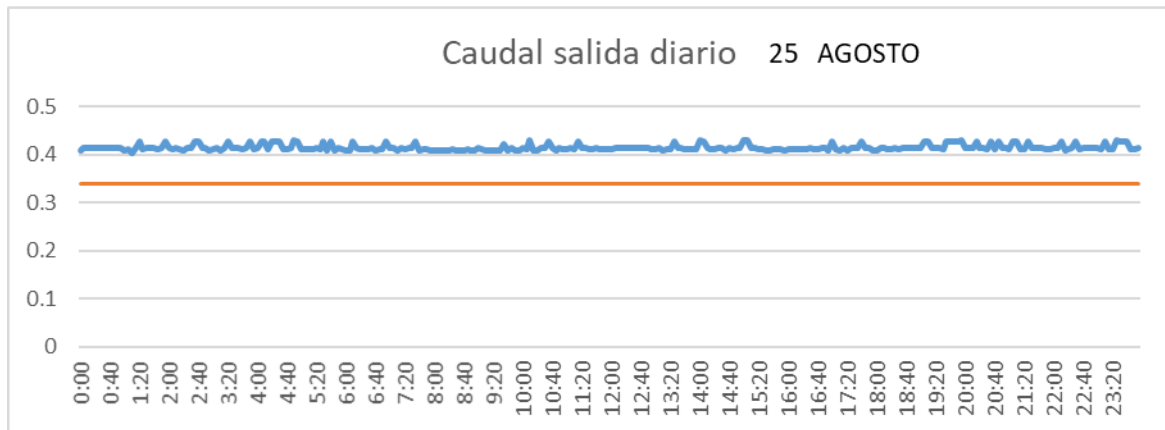
CUENCA



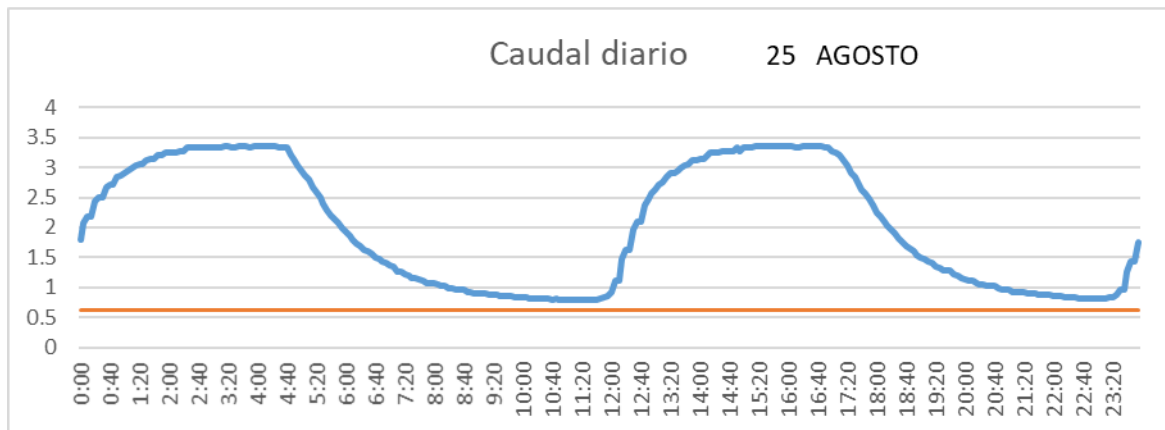
SAN LORENZO PARRILLA



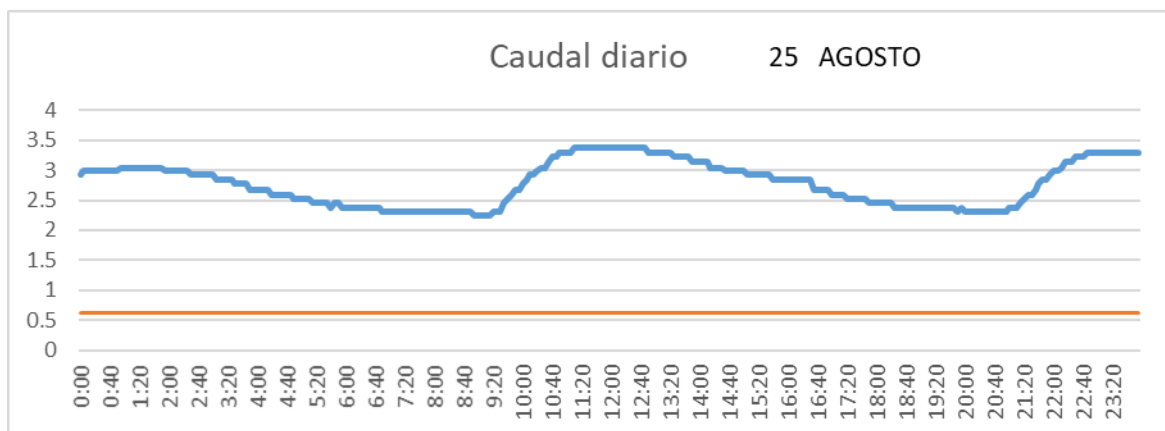
SALIDA TOBA



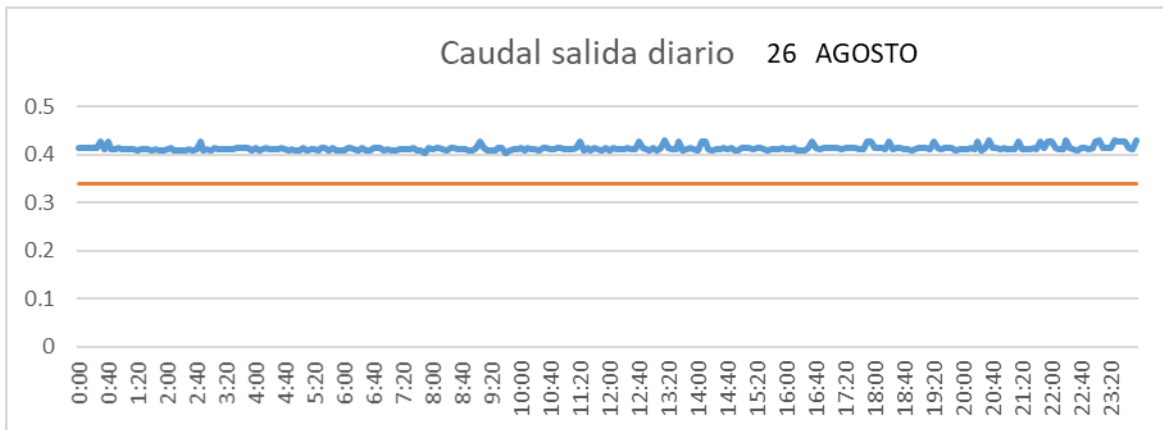
CUENCA



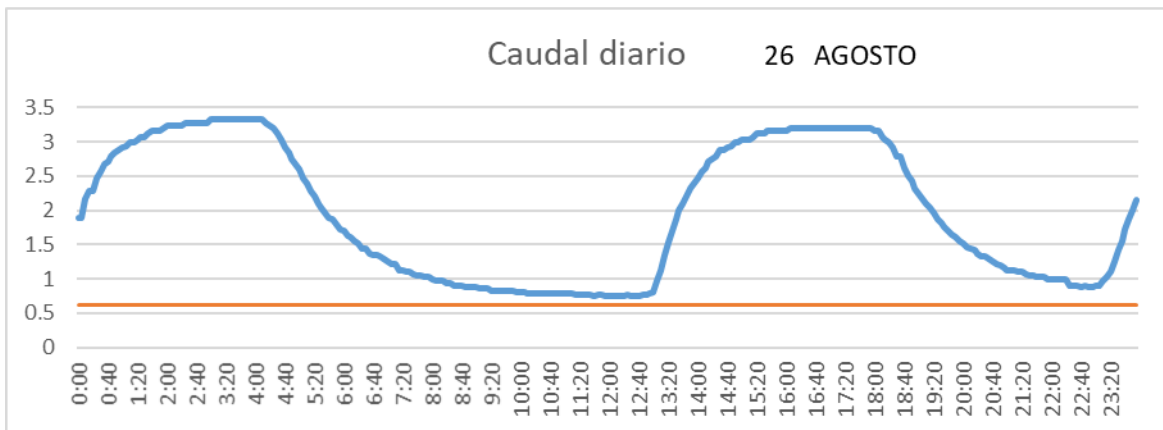
SAN LORENZO PARRILLA



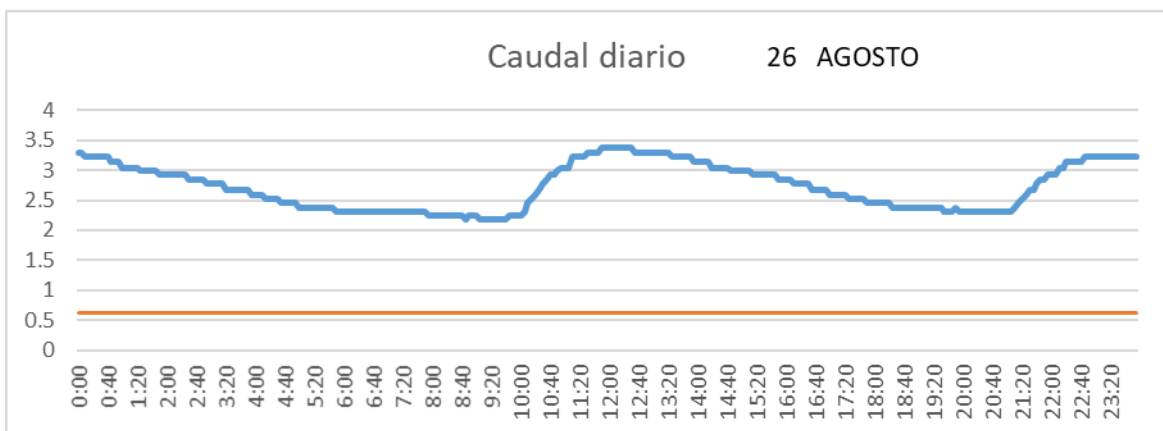
SALIDA TOBA



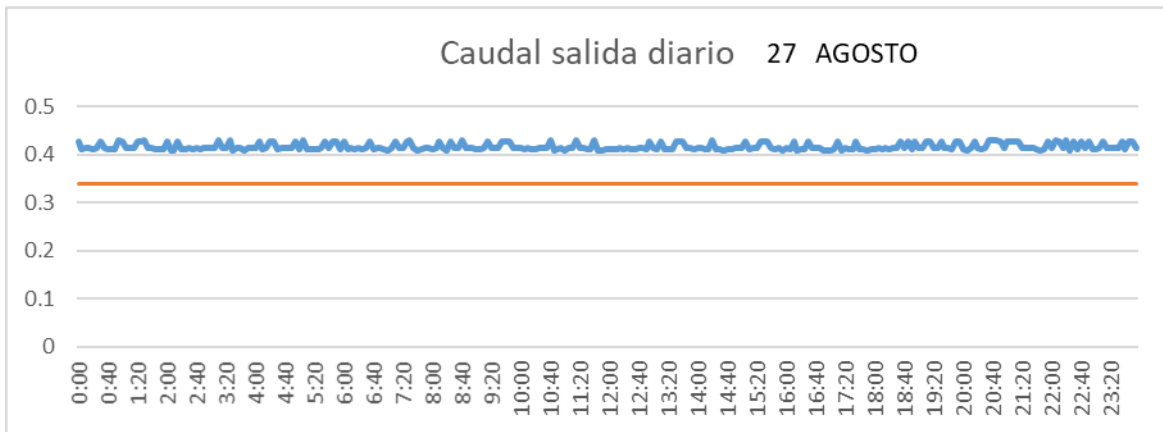
CUENCA



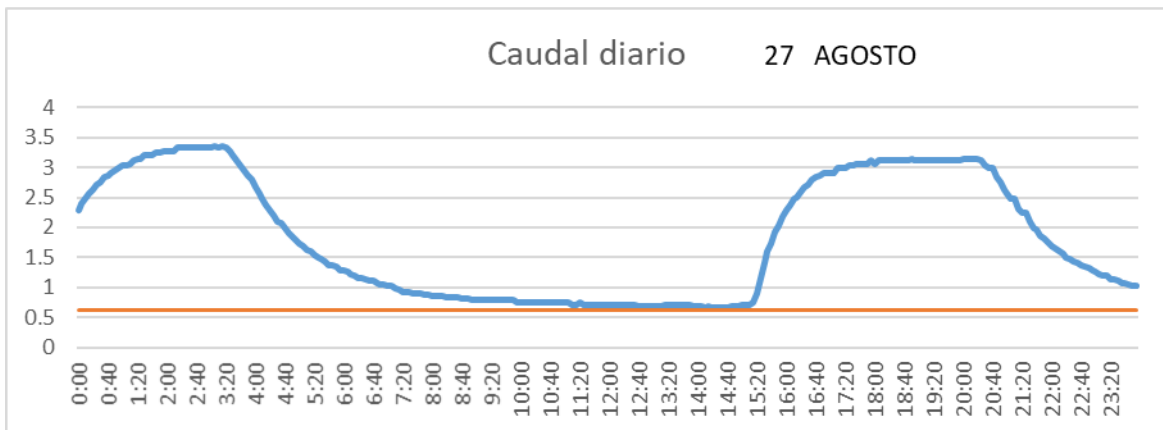
SAN LORENZO PARRILLA



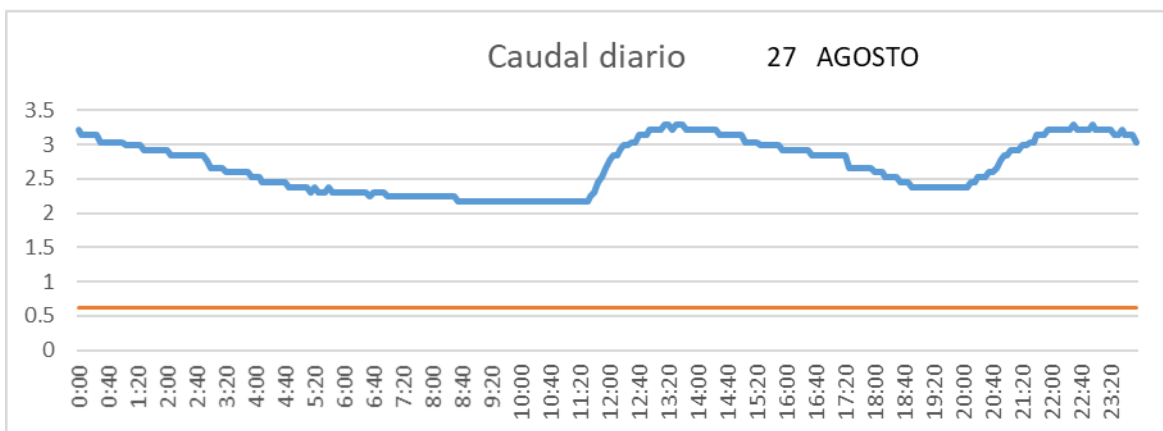
SALIDA TOBA



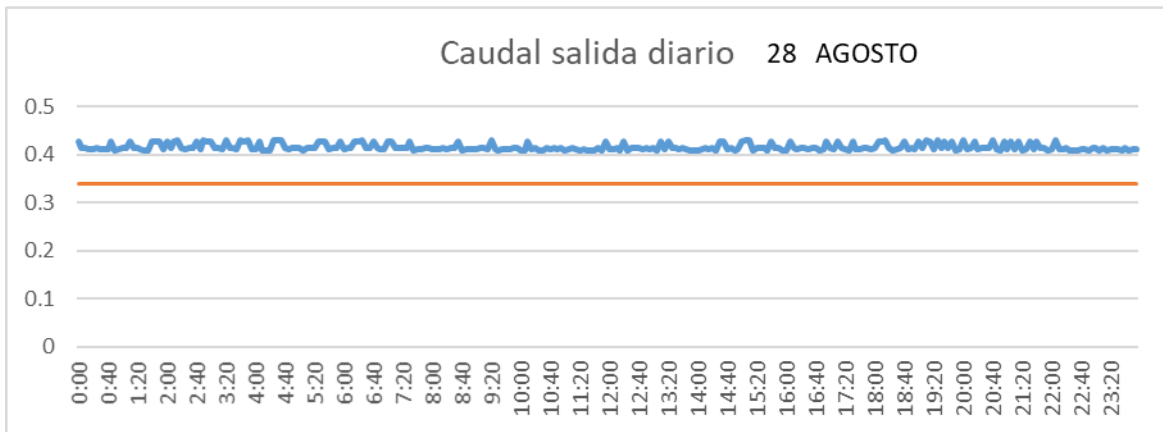
CUENCA



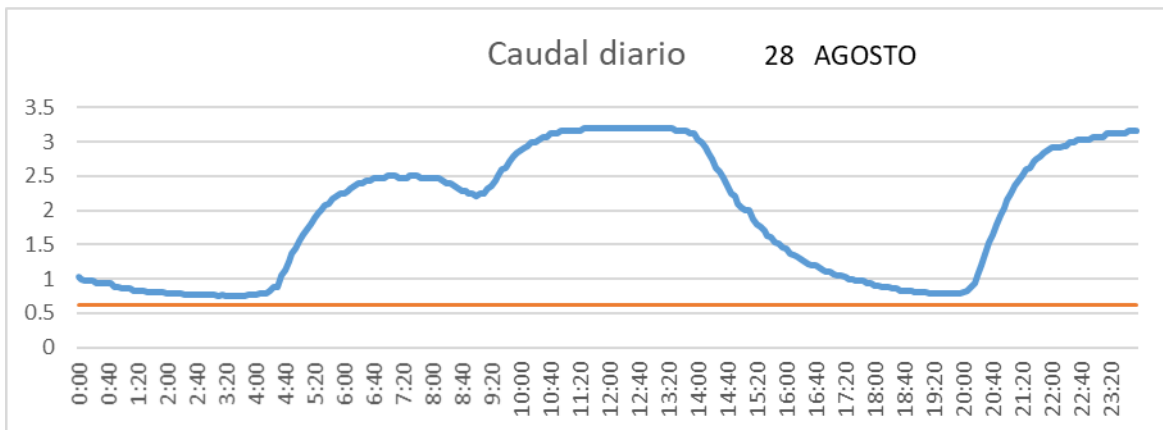
SAN LORENZO PARRILLA



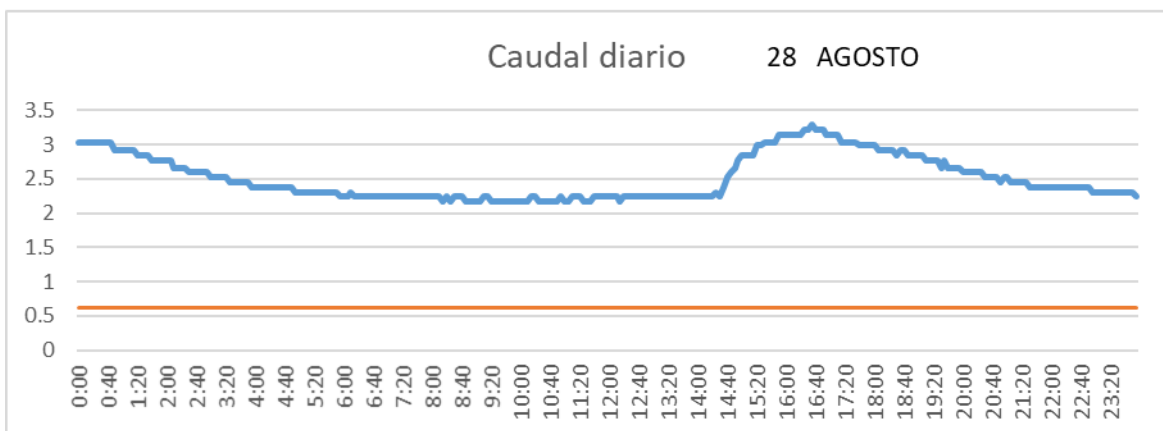
SALIDA TOBA



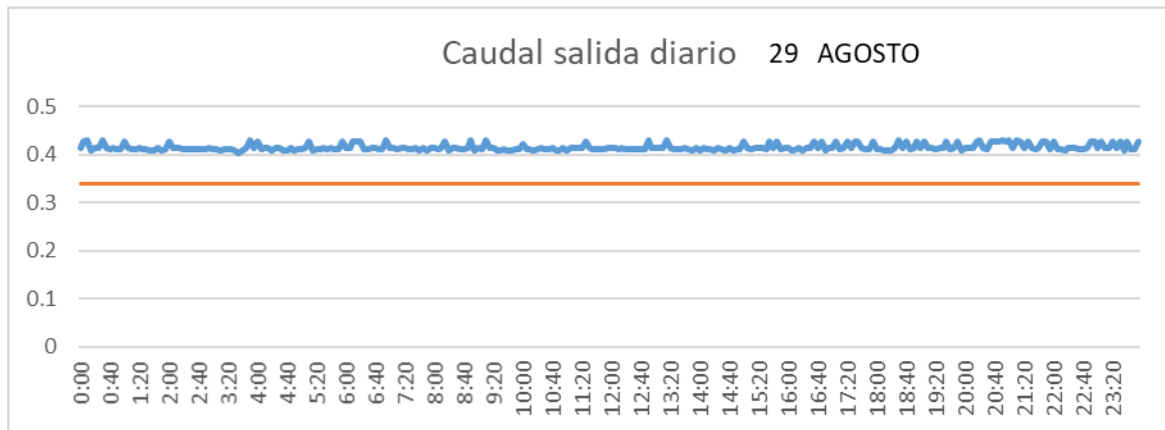
CUENCA



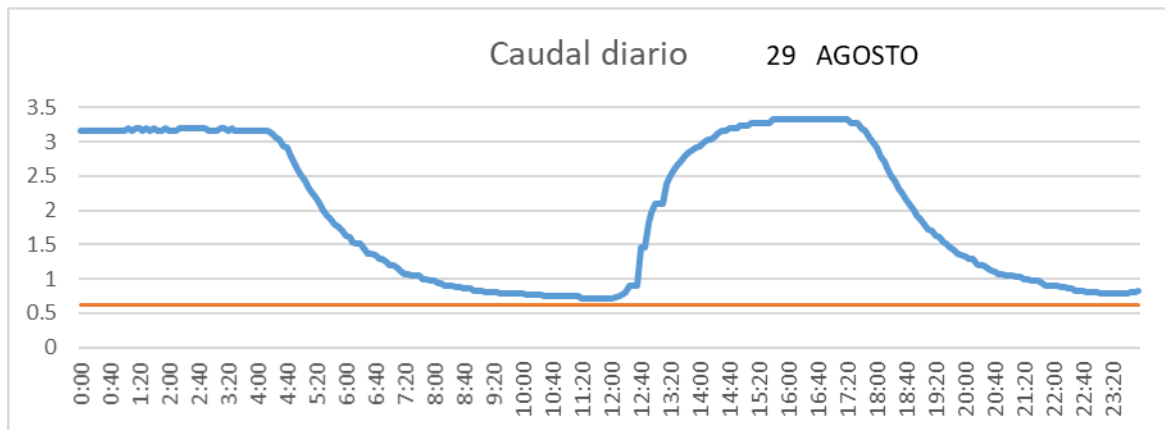
SAN LORENZO PARRILLA



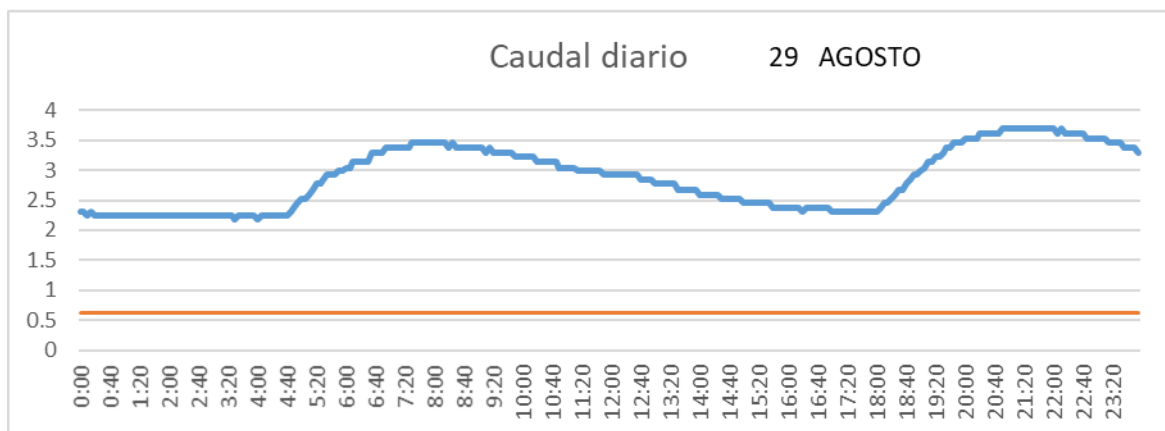
SALIDA TOBA



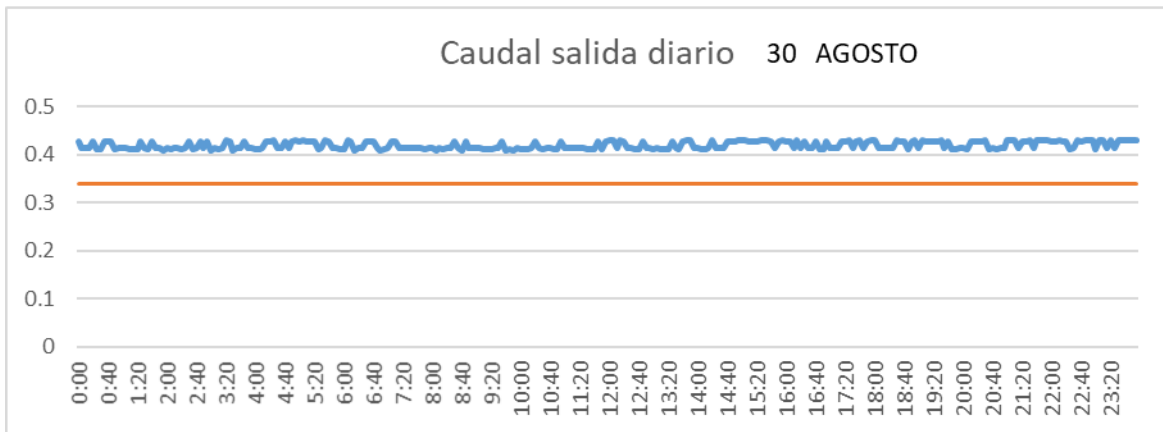
CUENCA



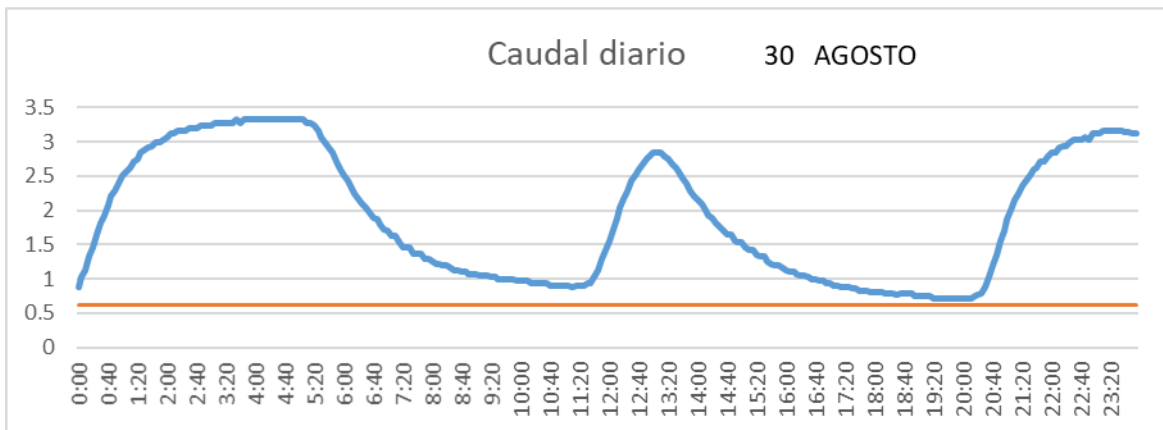
SAN LORENZO PARRILLA



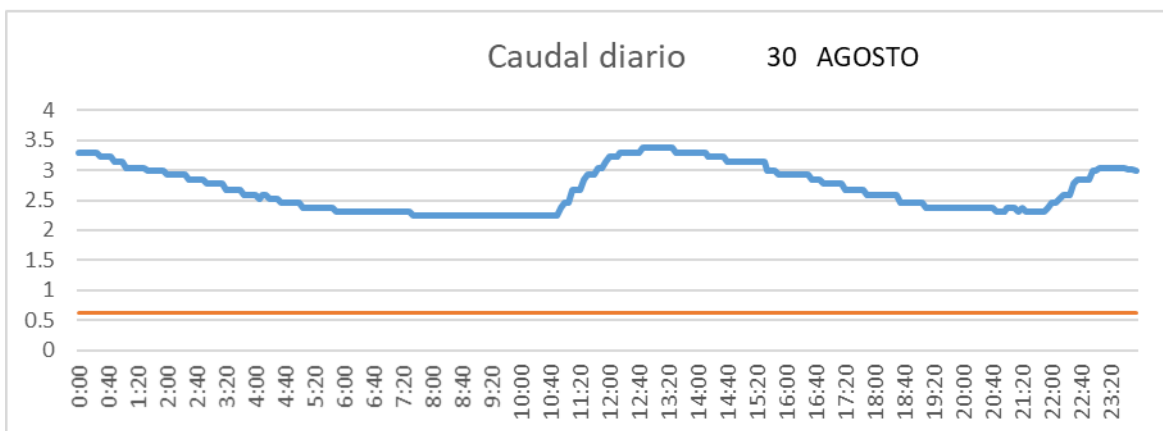
SALIDA TOBA



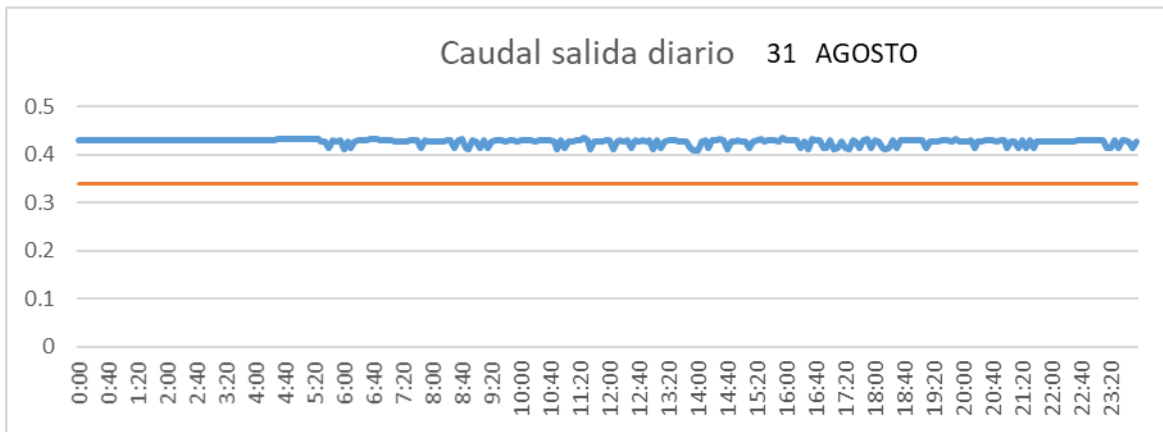
CUENCA



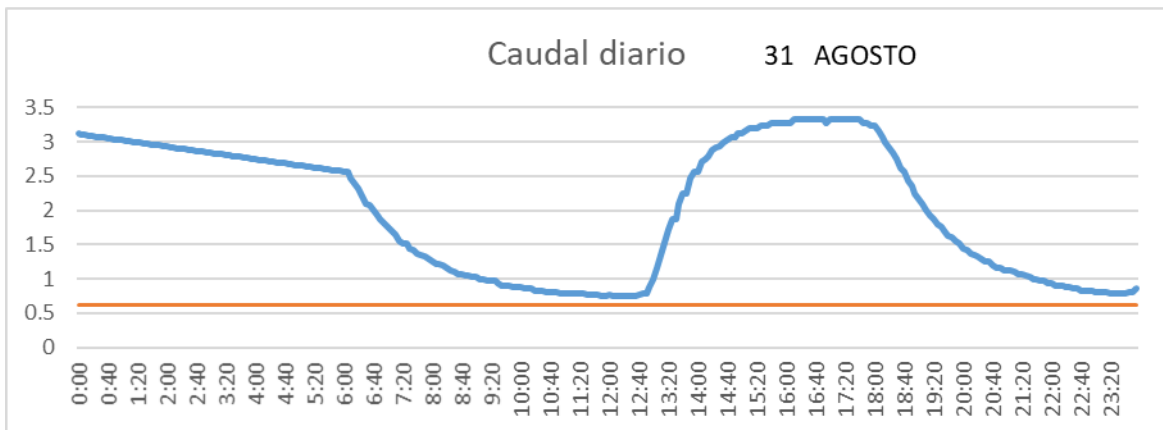
SAN LORENZO PARRILLA



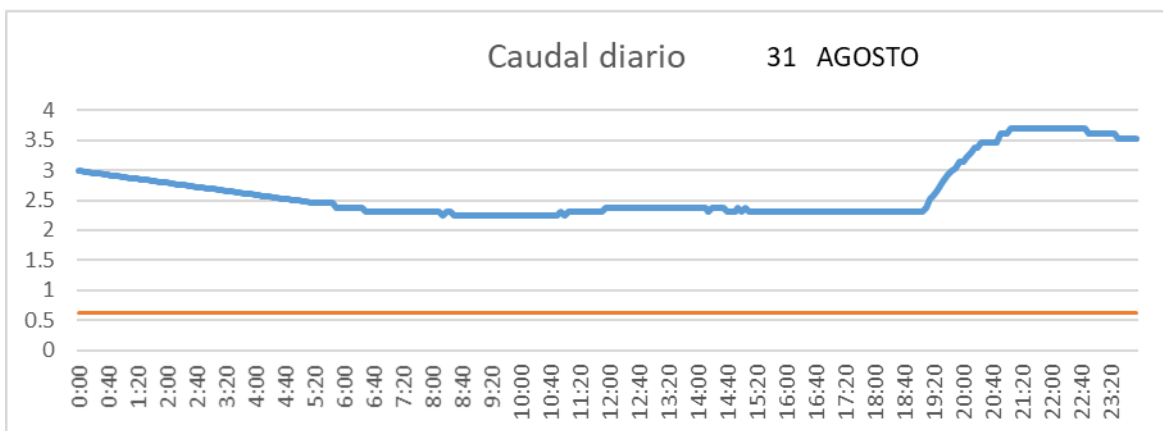
SALIDA TOBA



CUENCA

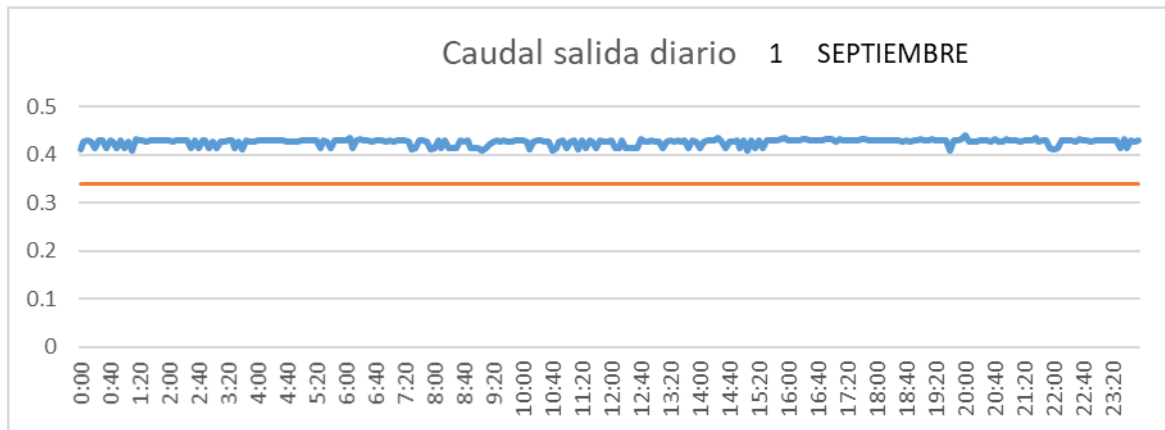


SAN LORENZO PARRILLA

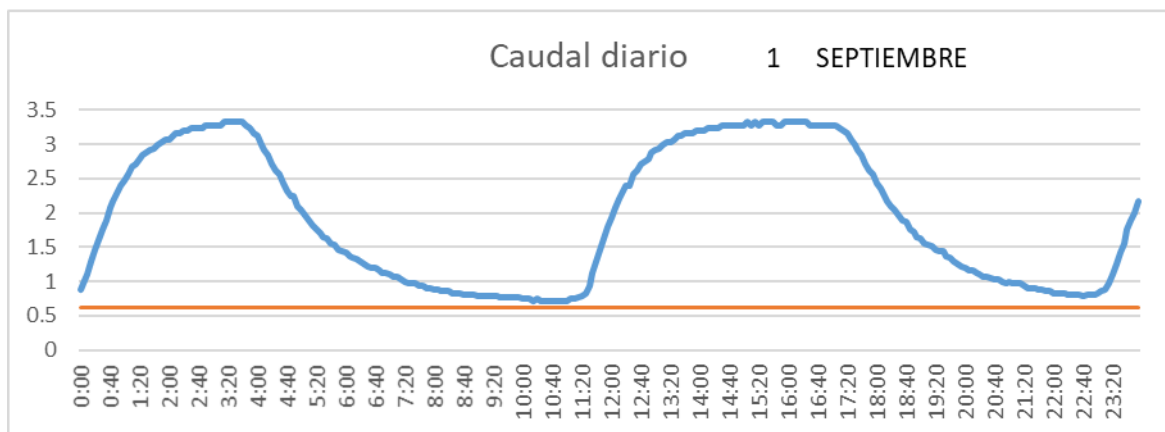


2.2.9 Septiembre

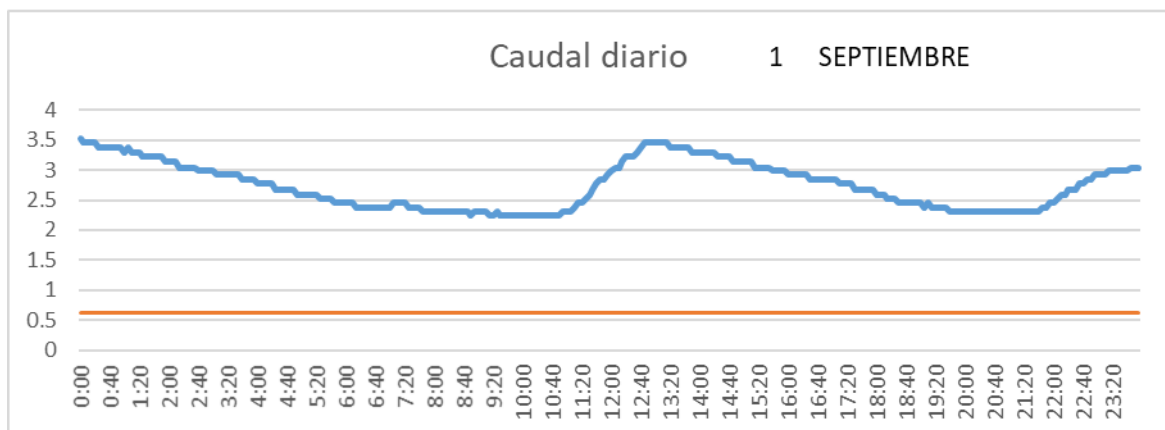
SALIDA TOBA



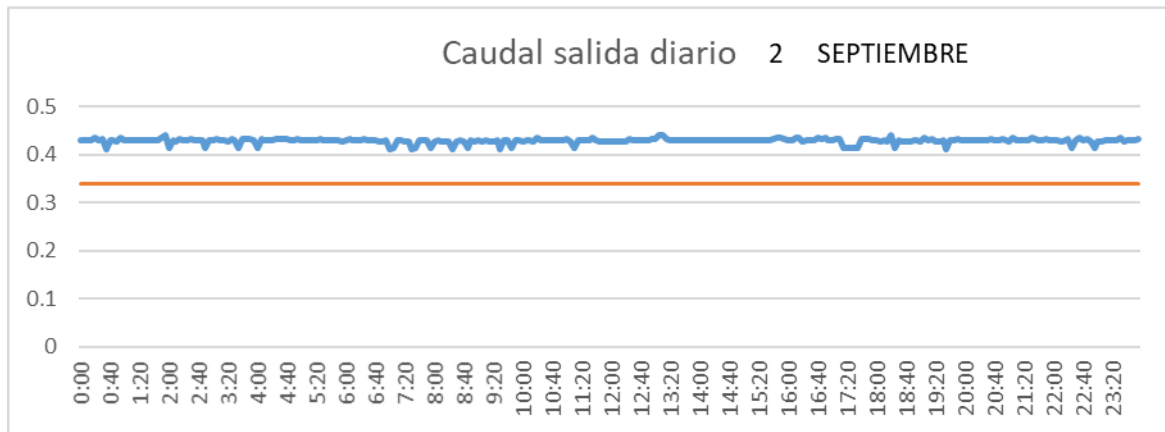
CUENCA



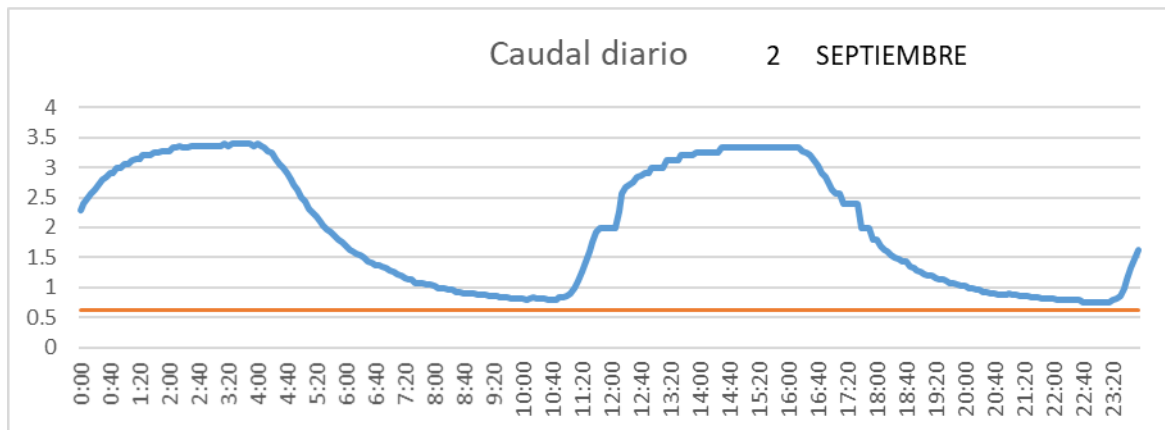
SAN LORENZO PARRILLA



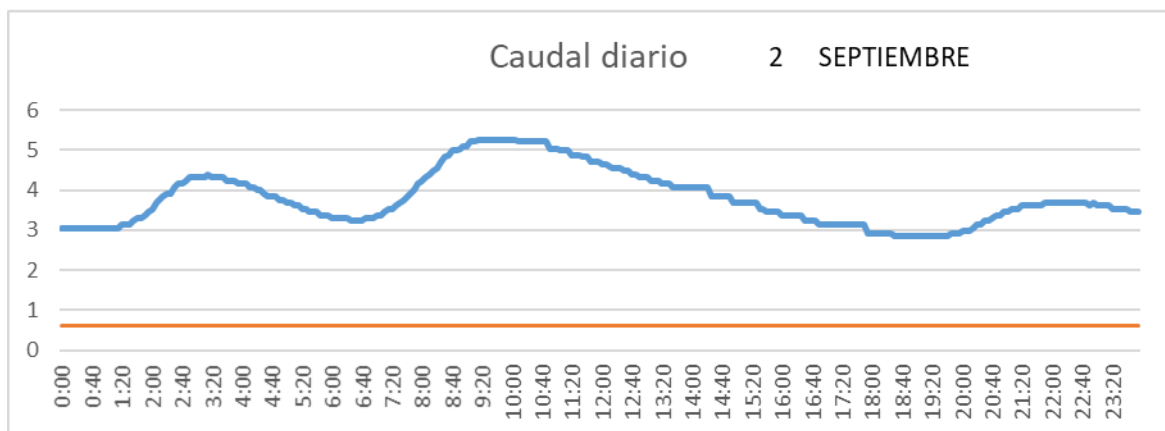
SALIDA TOBA



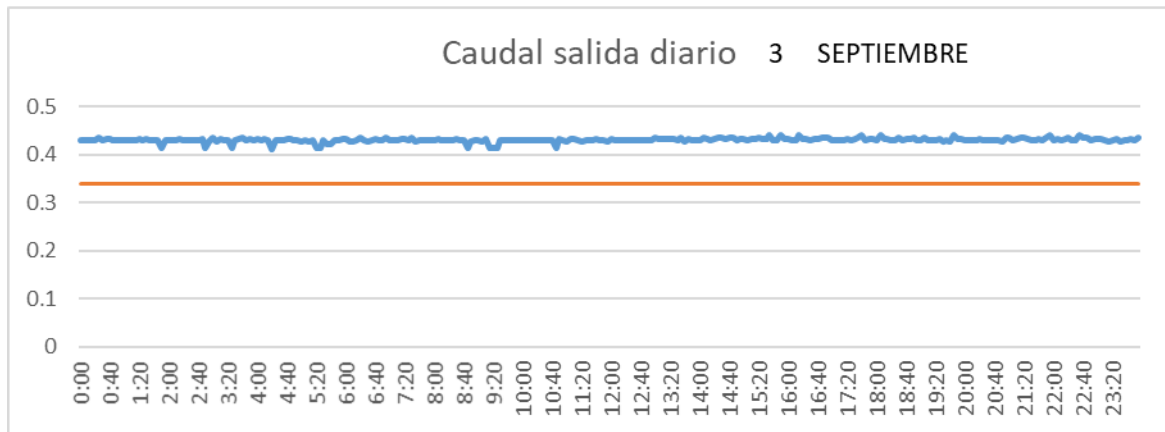
CUENCA



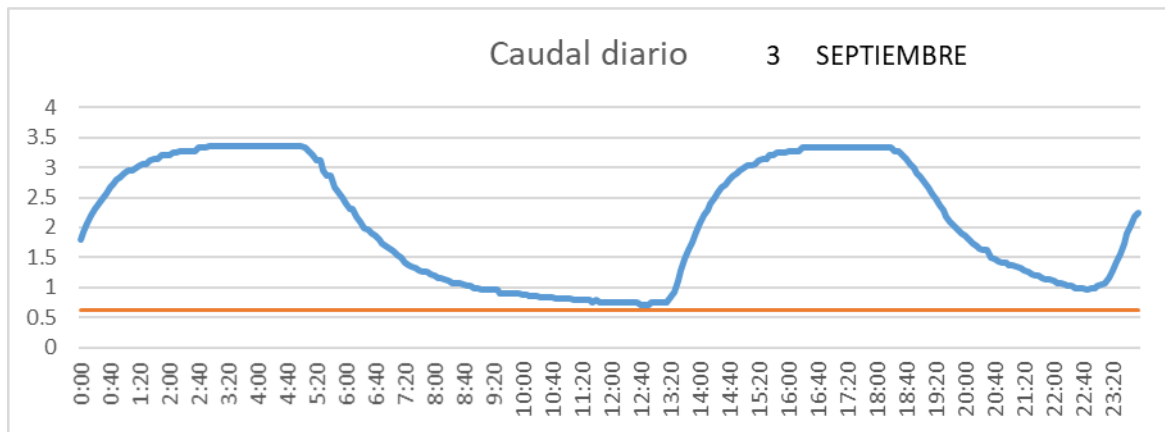
SAN LORENZO PARRILLA



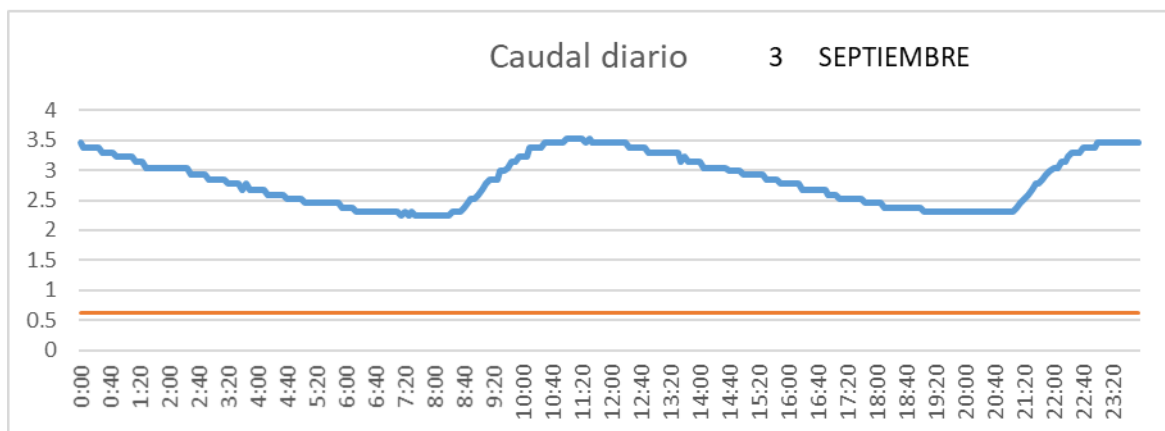
SALIDA TOBA



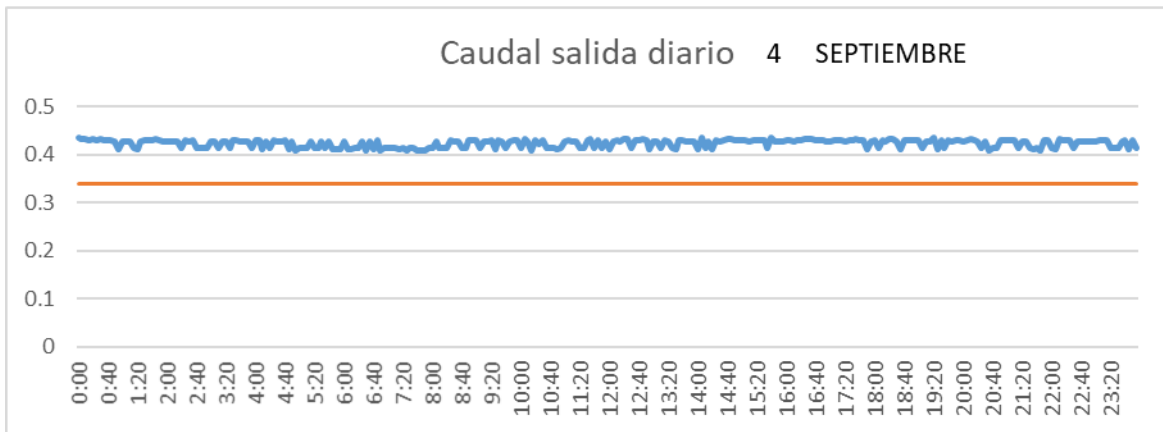
CUENCA



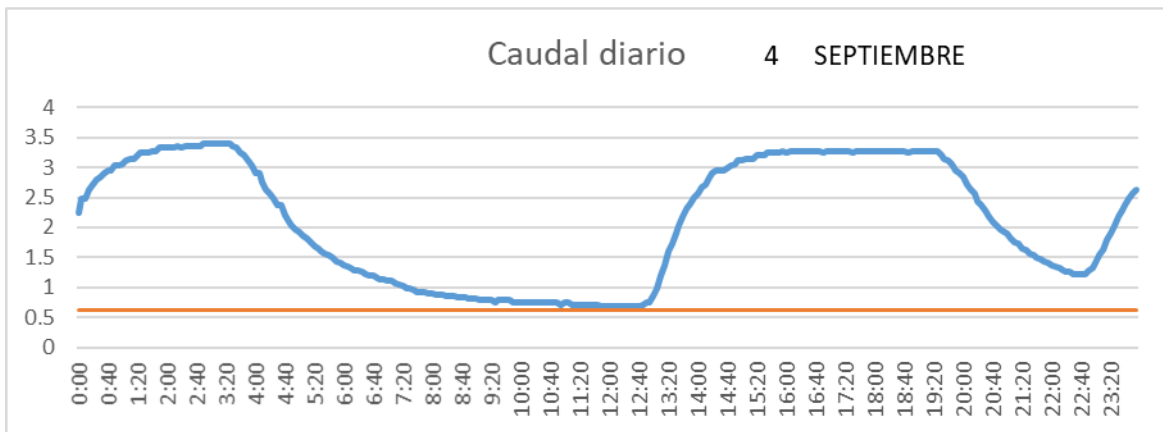
SAN LORENZO PARRILLA



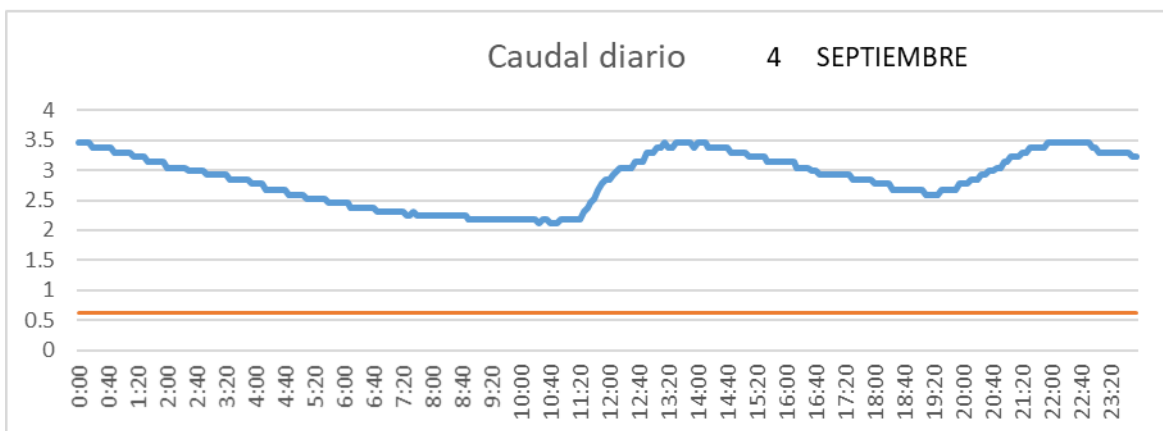
SALIDA TOBA



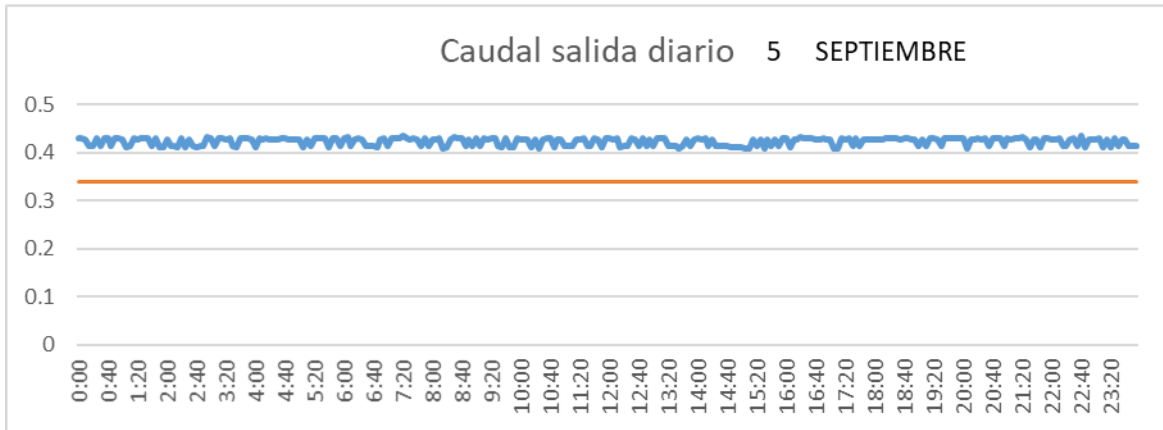
CUENCA



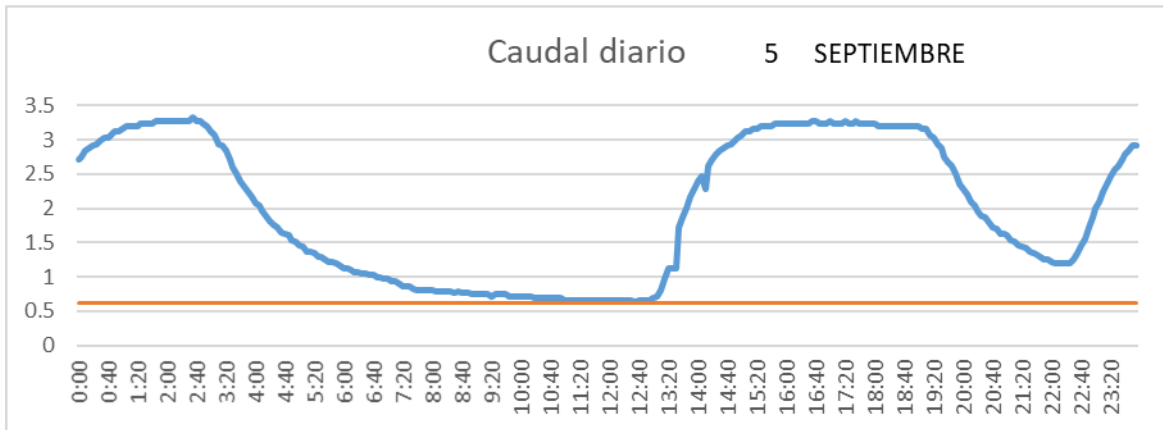
SAN LORENZO PARRILLA



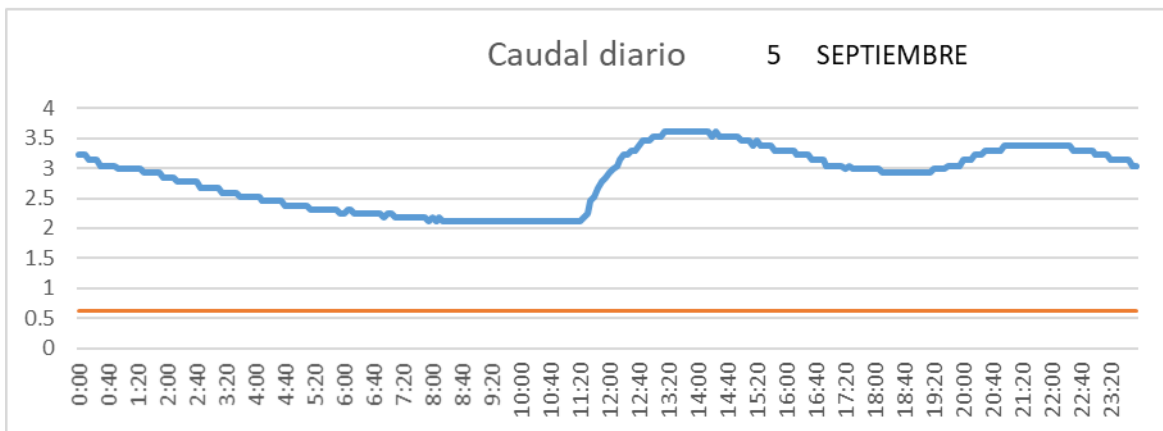
SALIDA TOBA



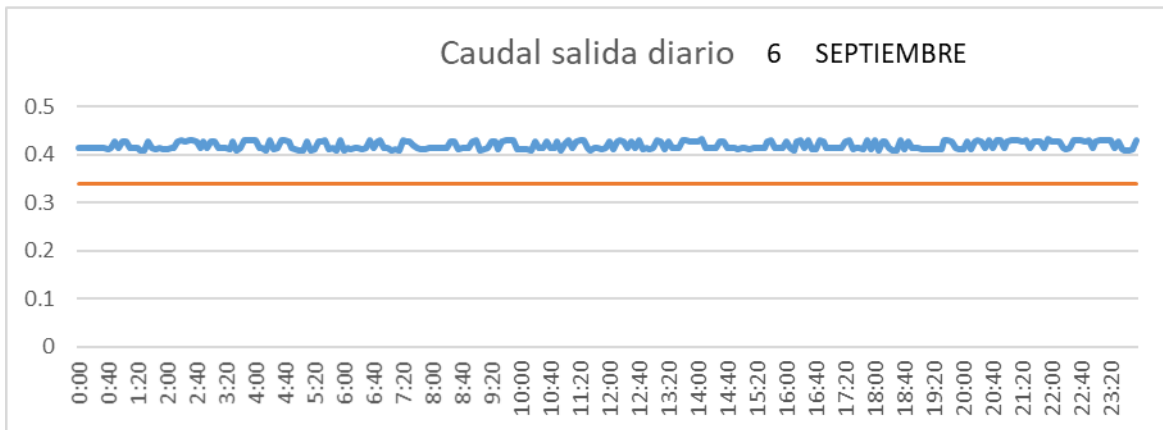
CUENCA



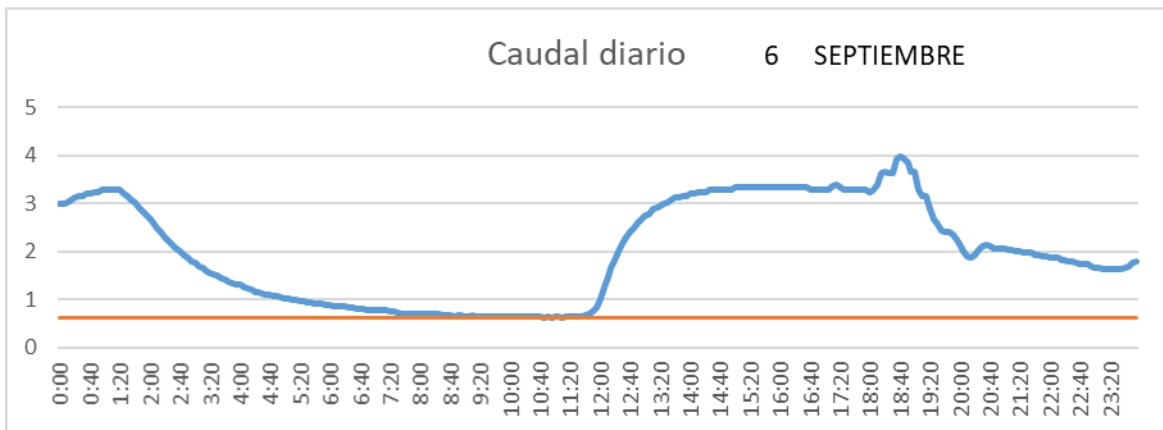
SAN LORENZO PARRILLA



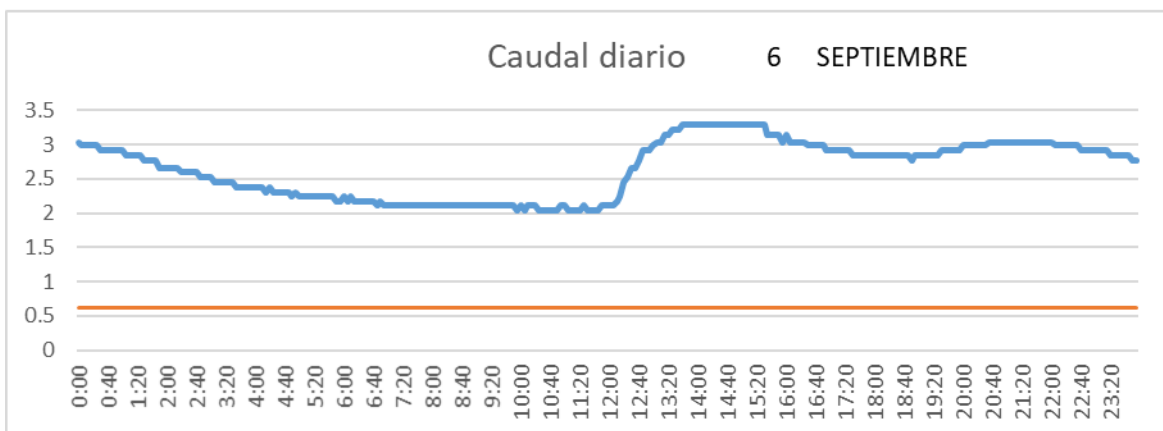
SALIDA TOBA



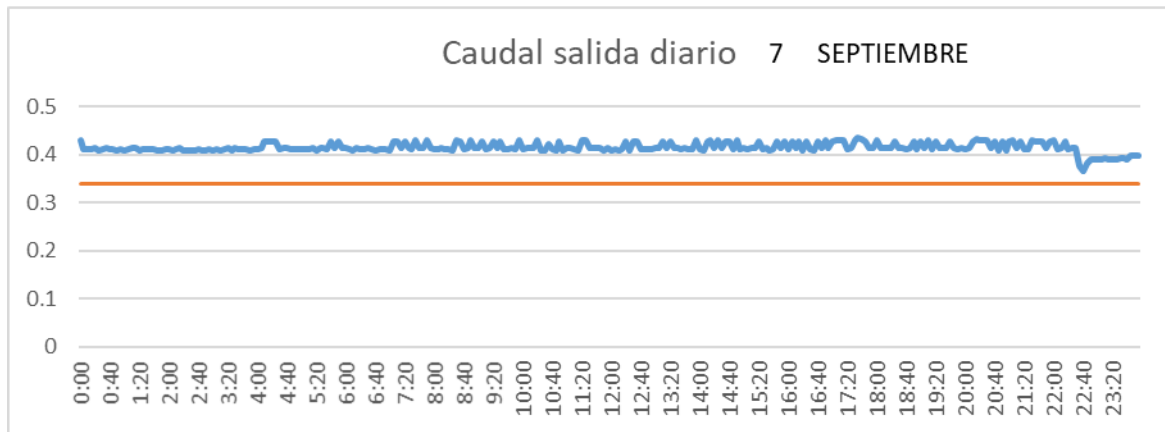
CUENCA



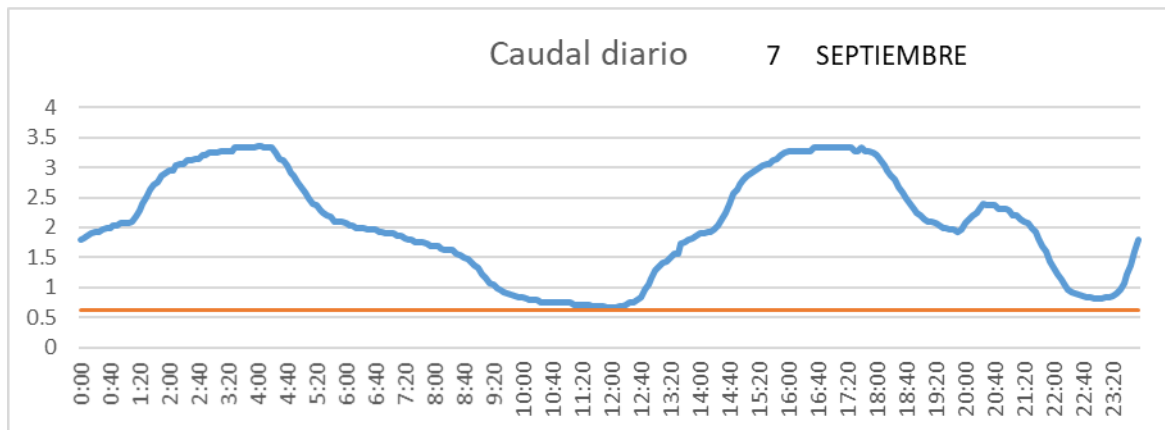
SAN LORENZO PARRILLA



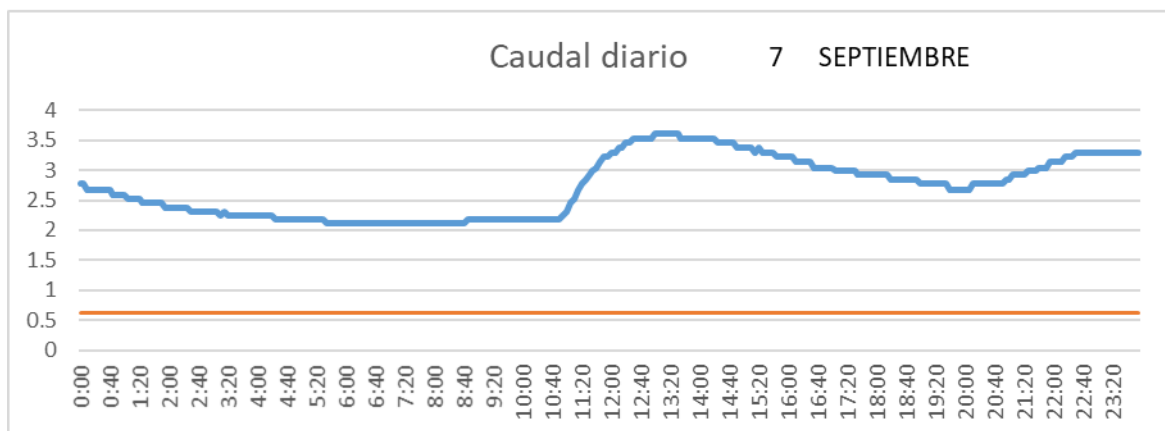
SALIDA TOBA



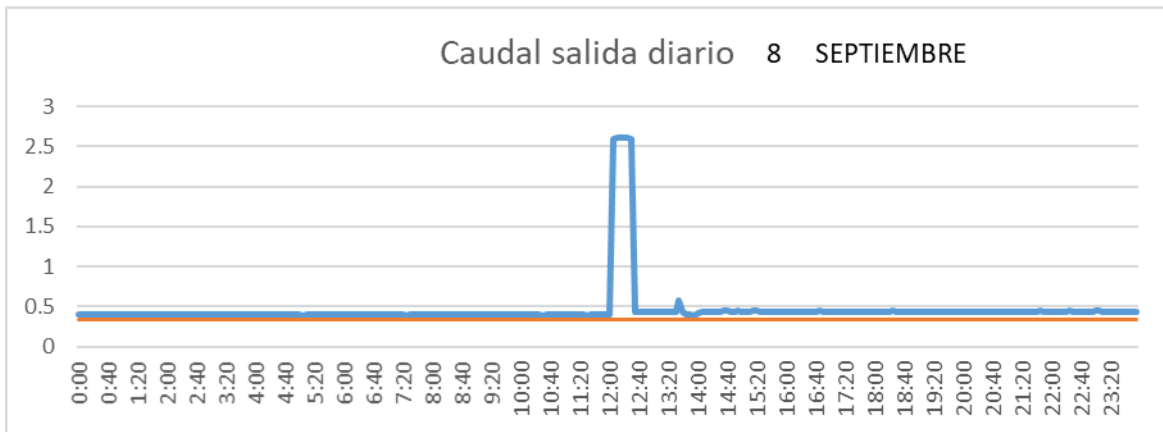
CUENCA



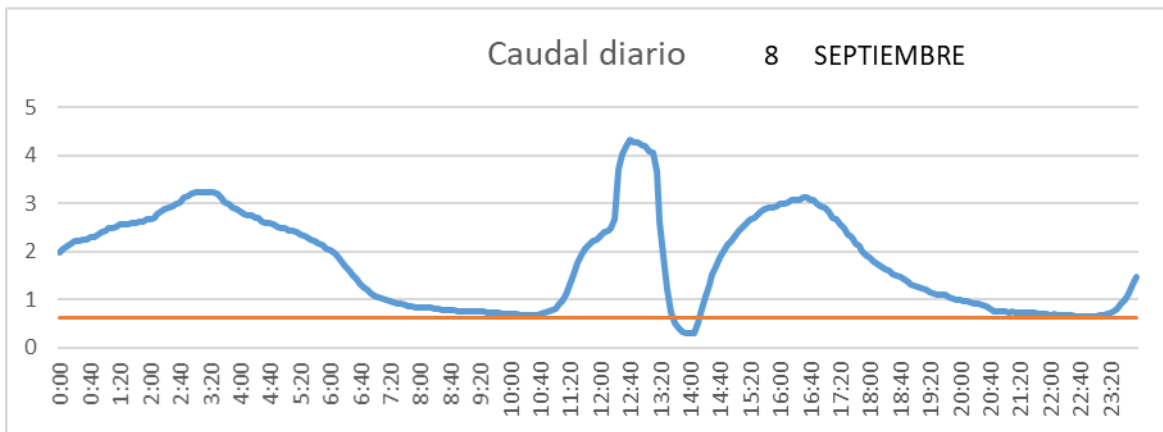
SAN LORENZO PARRILLA



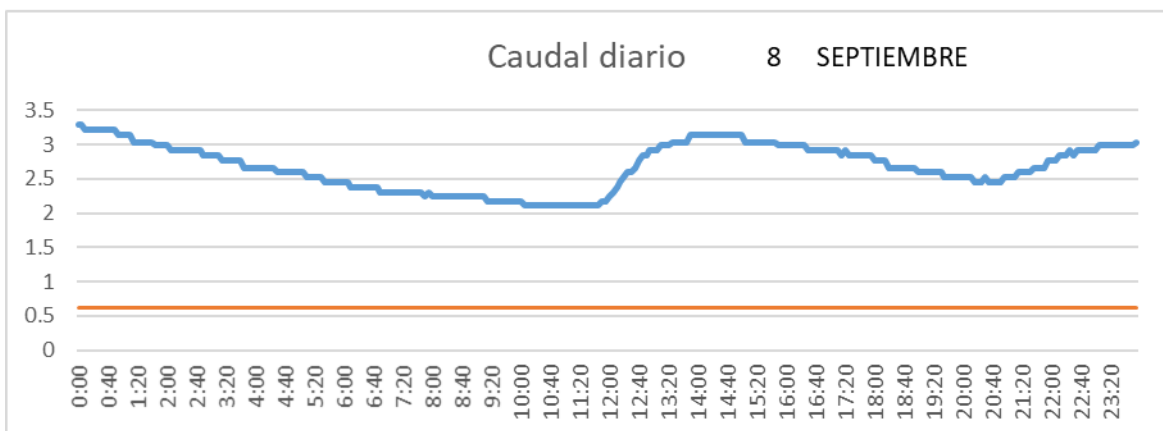
SALIDA TOBA



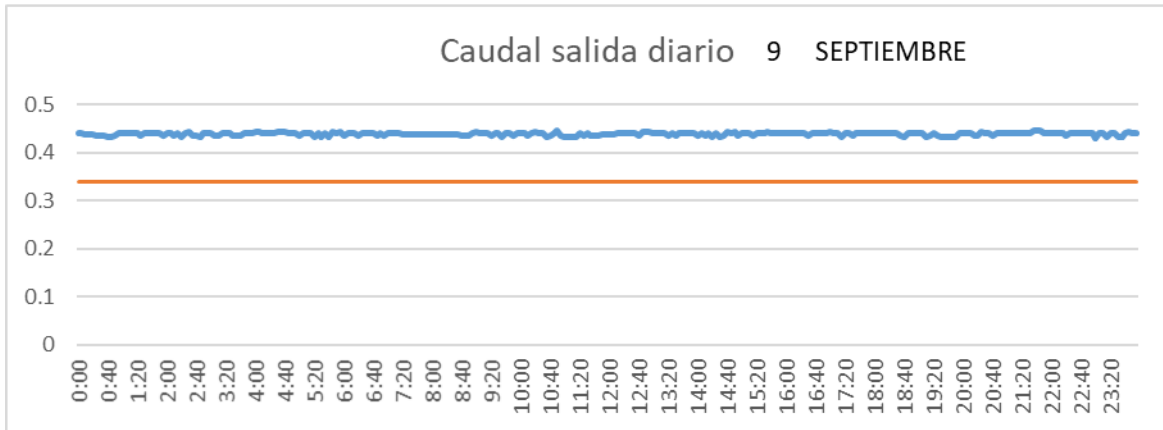
CUENCA



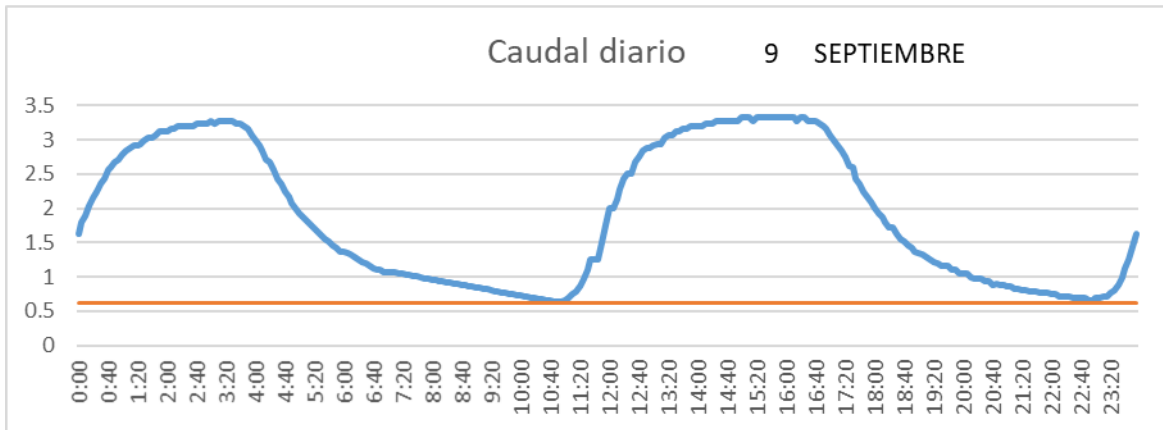
SAN LORENZO PARRILLA



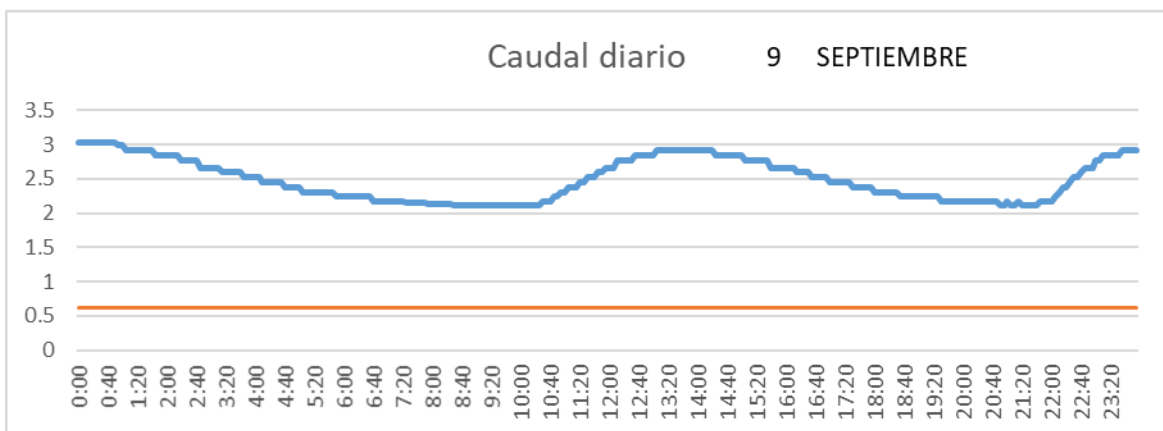
SALIDA TOBA



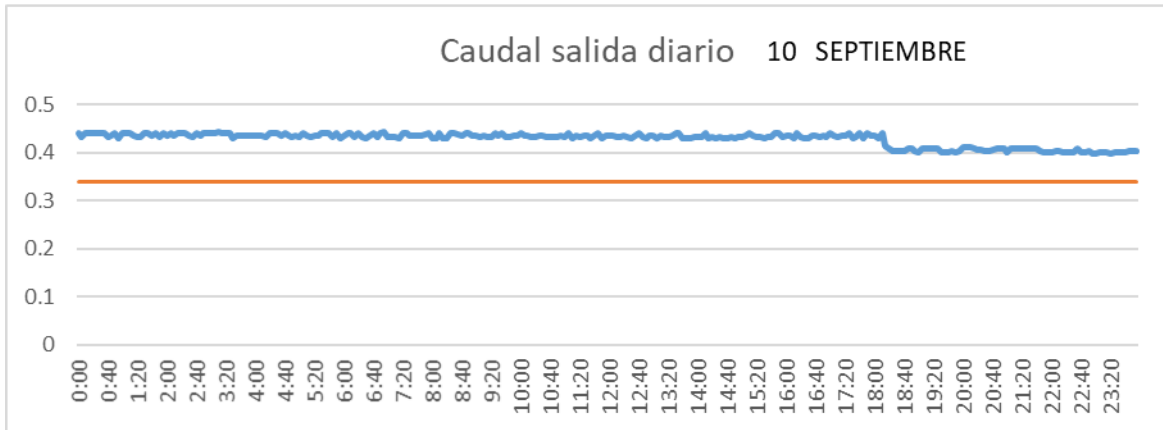
CUENCA



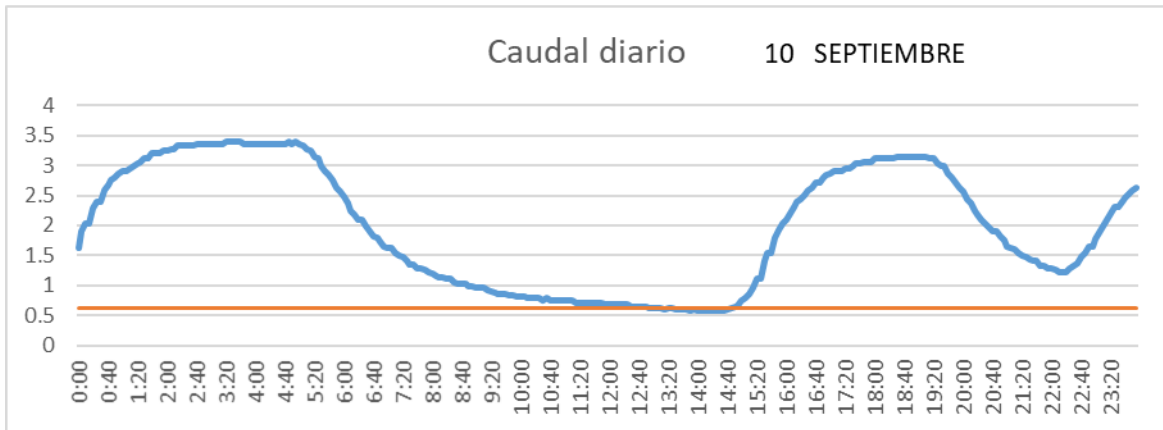
SAN LORENZO PARRILLA



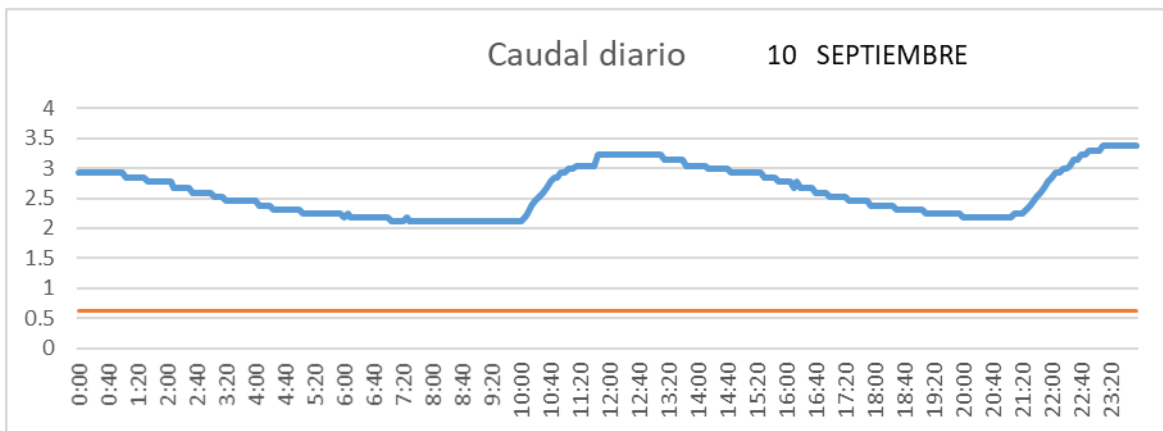
SALIDA TOBA



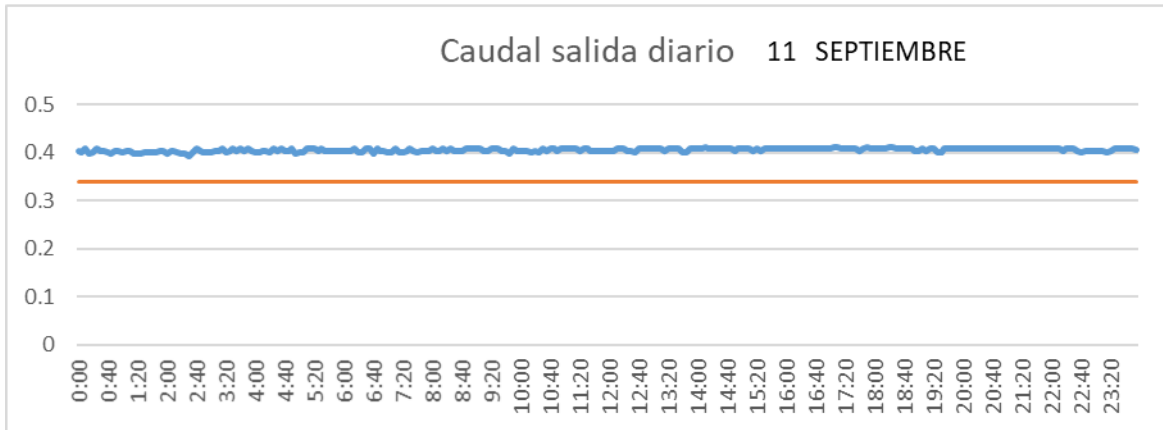
CUENCA



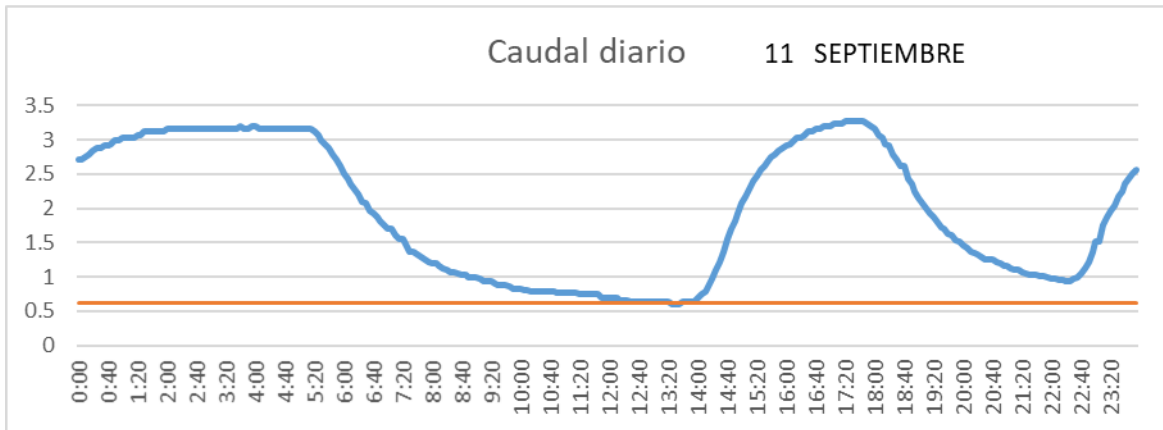
SAN LORENZO PARRILLA



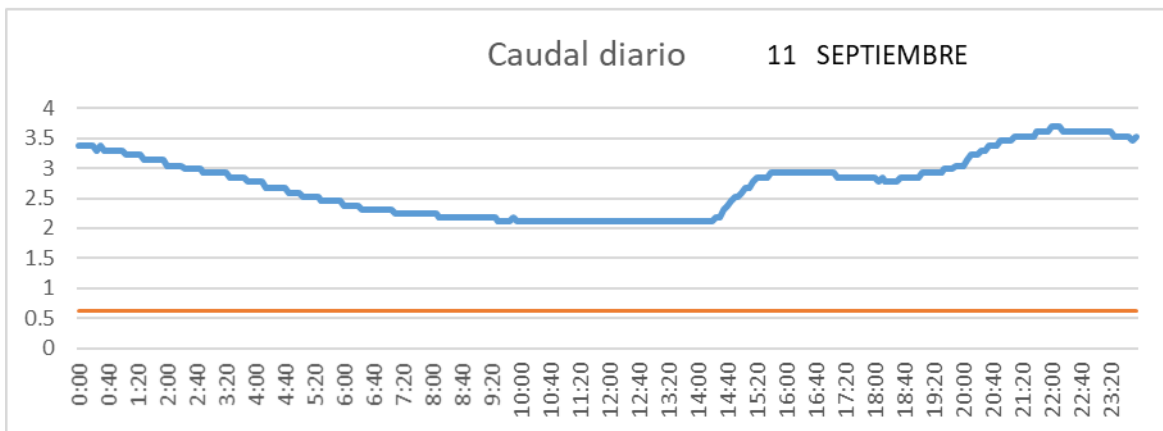
SALIDA TOBA



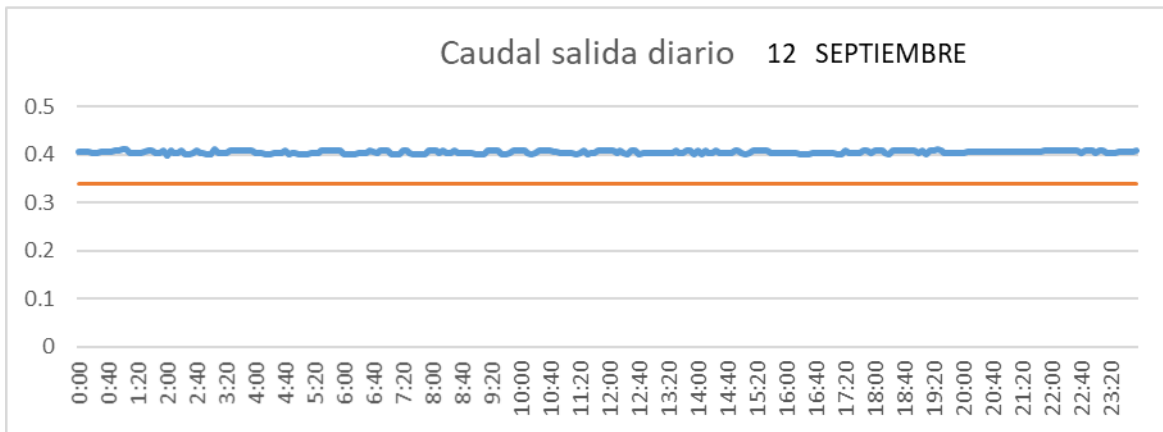
CUENCA



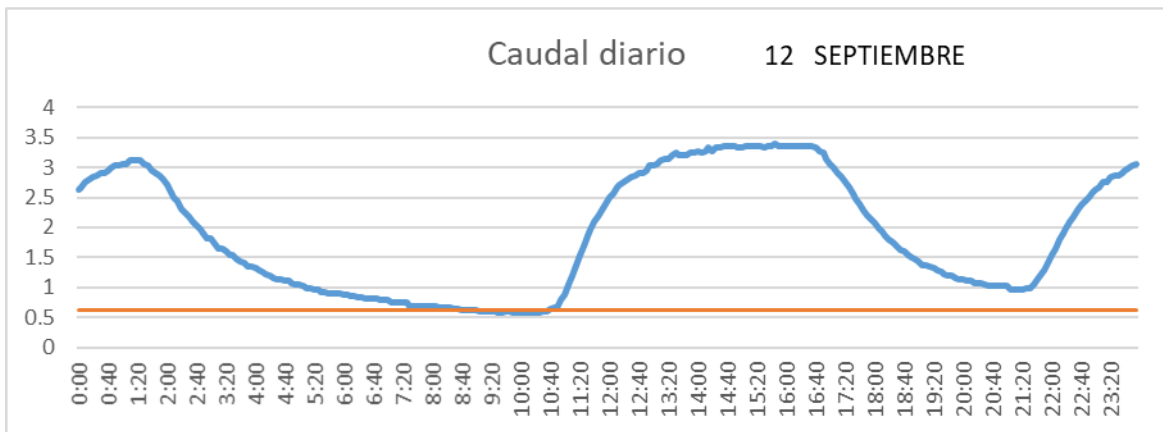
SAN LORENZO PARRILLA



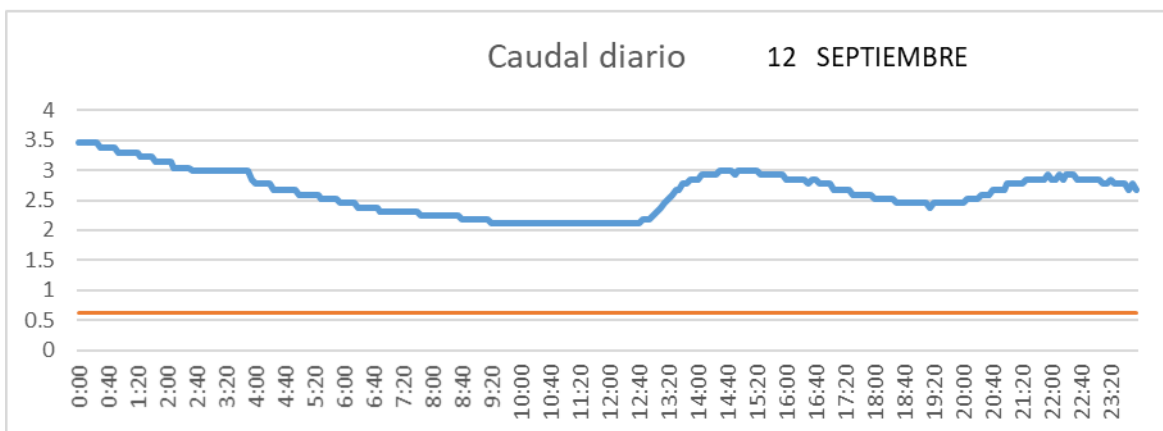
SALIDA TOBA



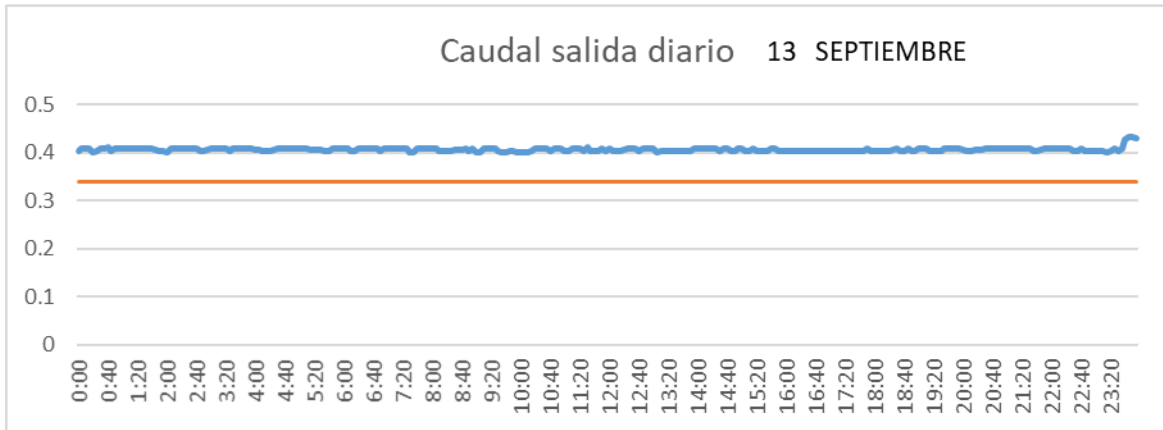
CUENCA



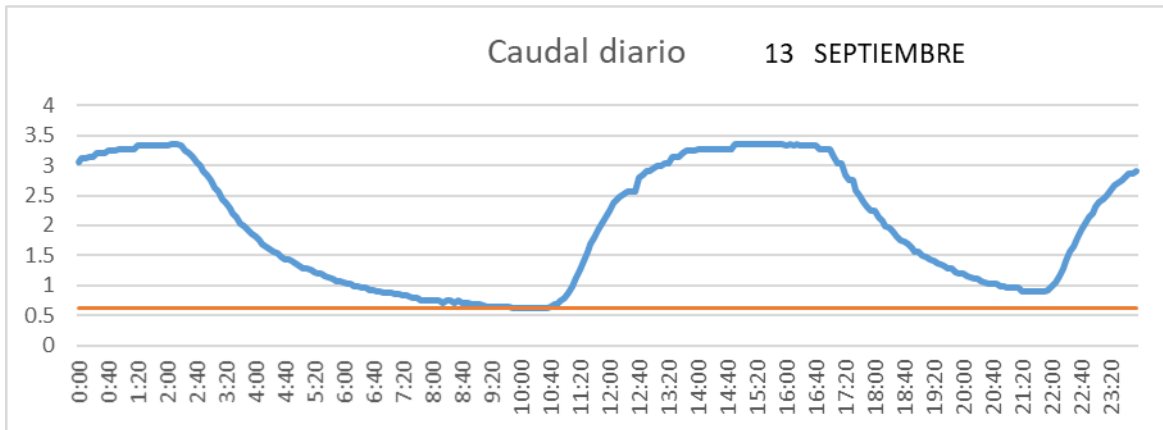
SAN LORENZO PARRILLA



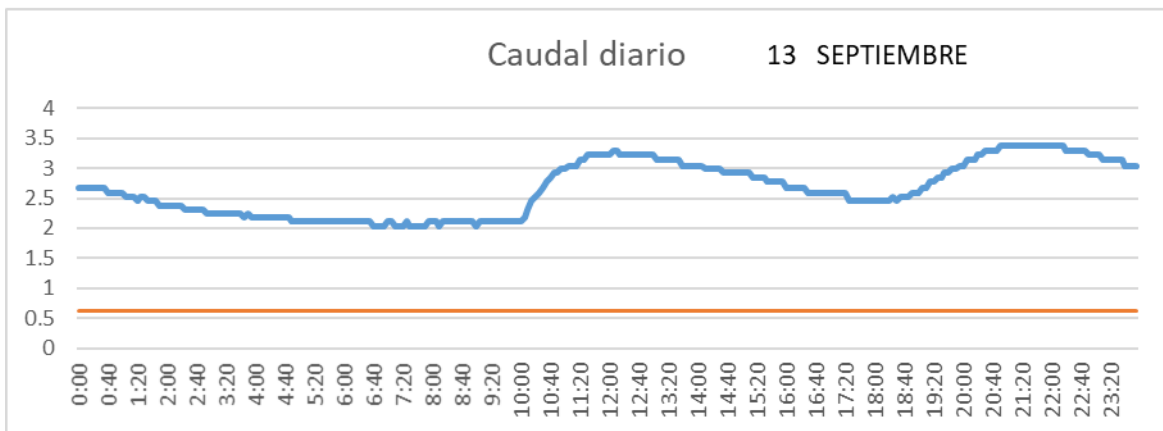
SALIDA TOBA



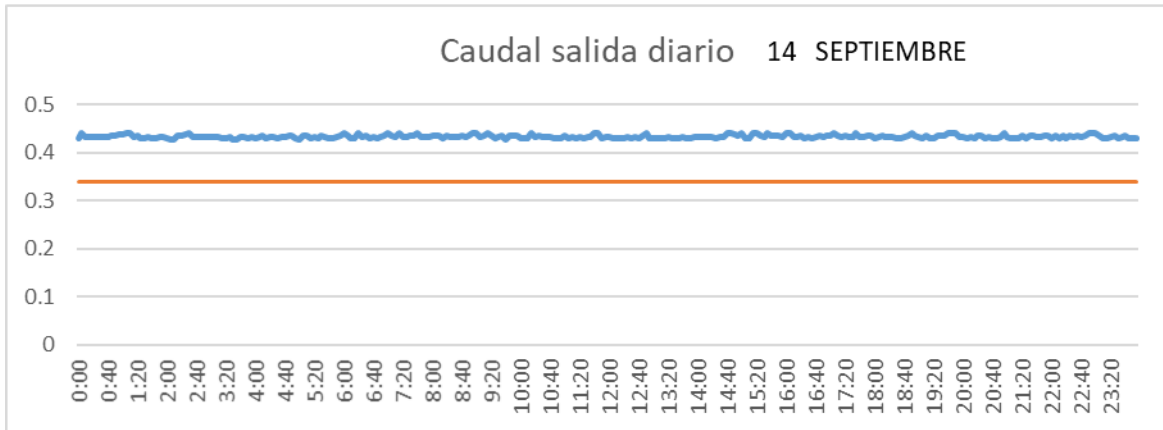
CUENCA



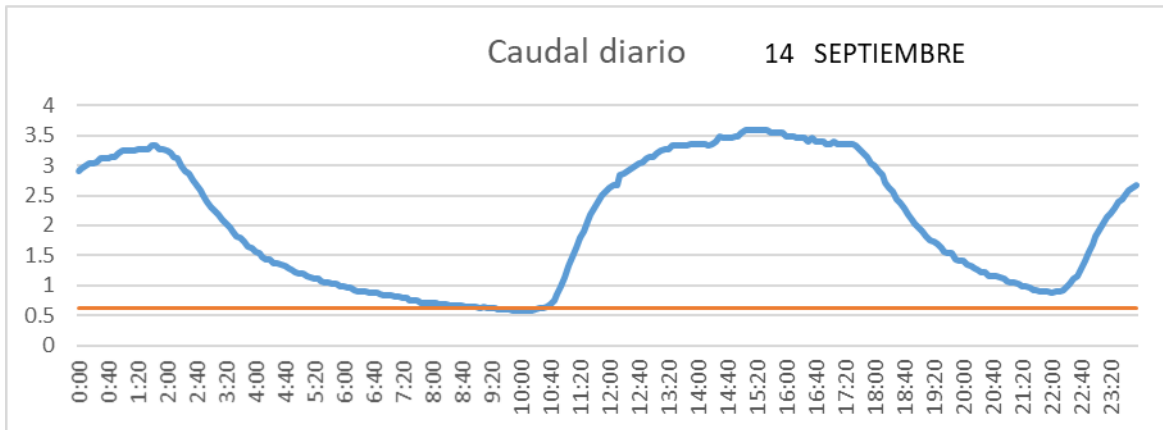
SAN LORENZO PARRILLA



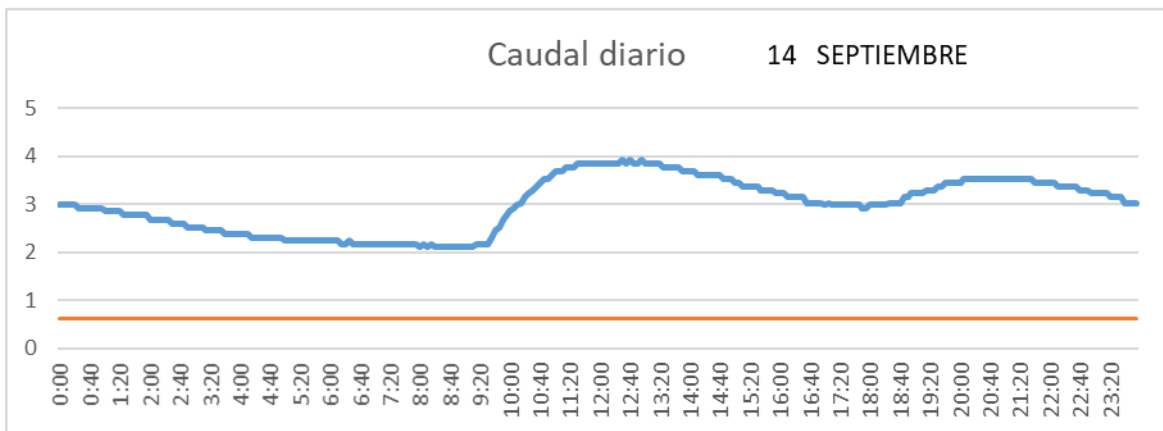
SALIDA TOBA



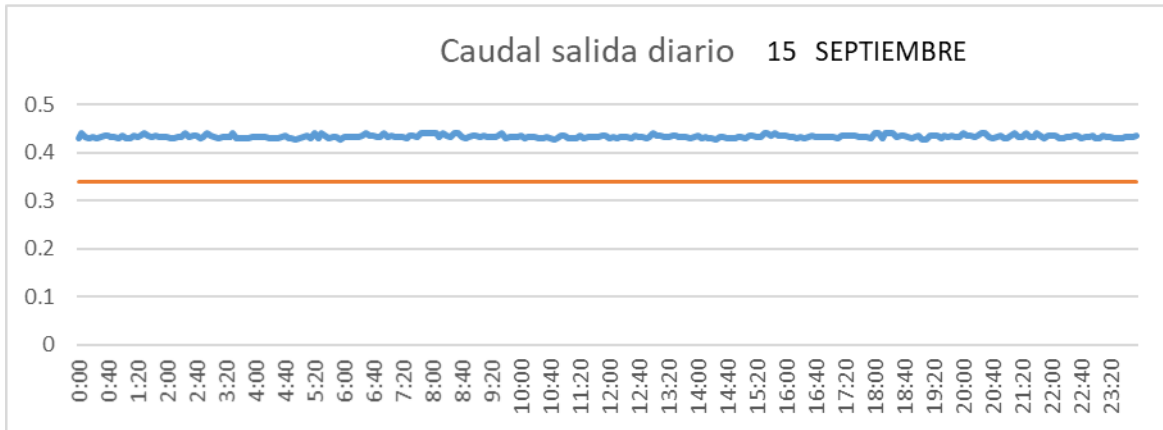
CUENCA



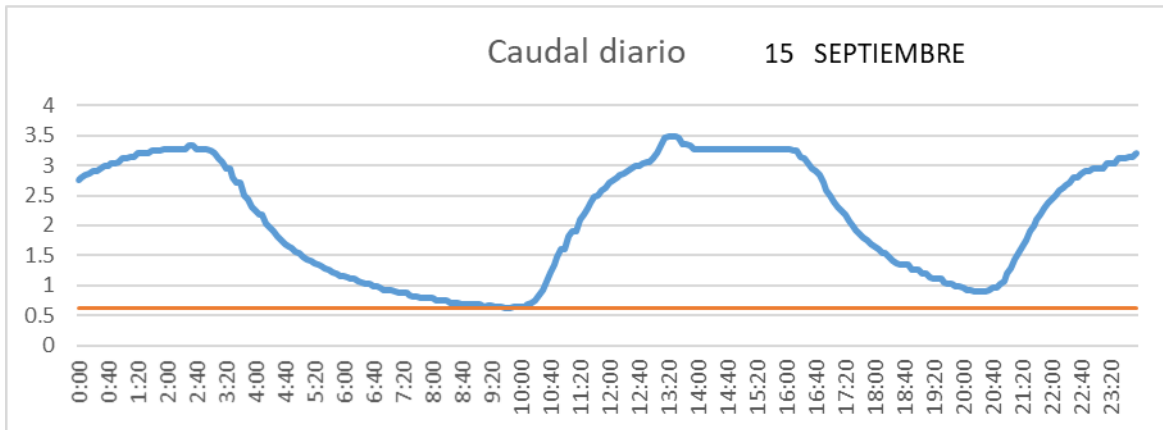
SAN LORENZO PARRILLA



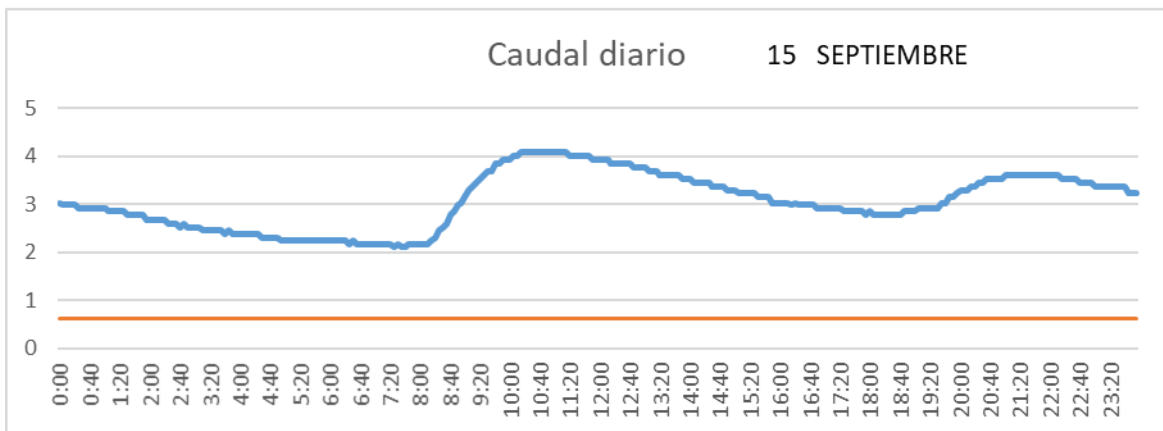
SALIDA TOBA



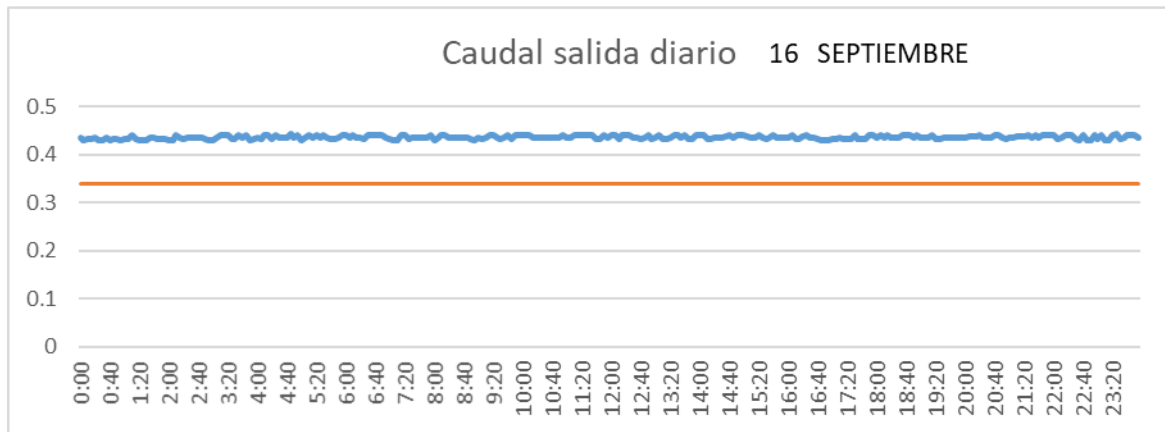
CUENCA



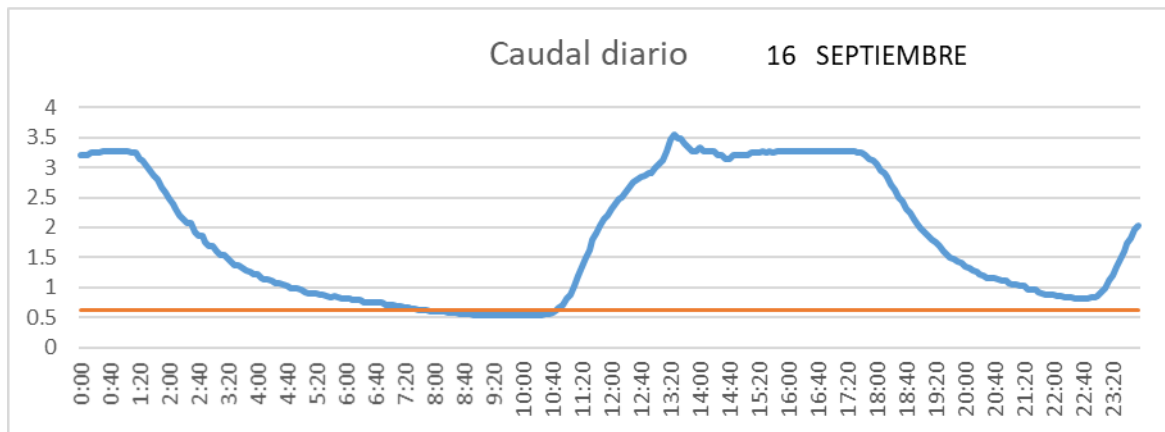
SAN LORENZO PARRILLA



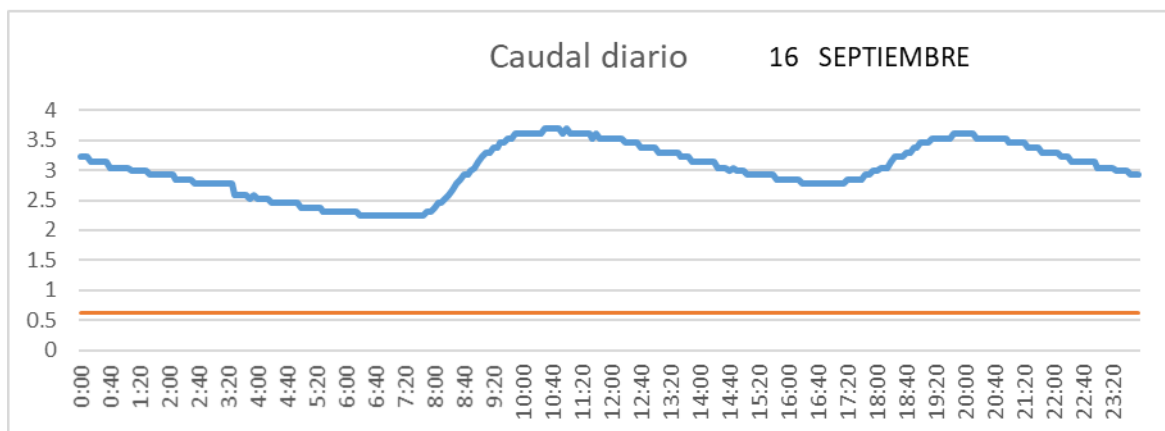
SALIDA TOBA



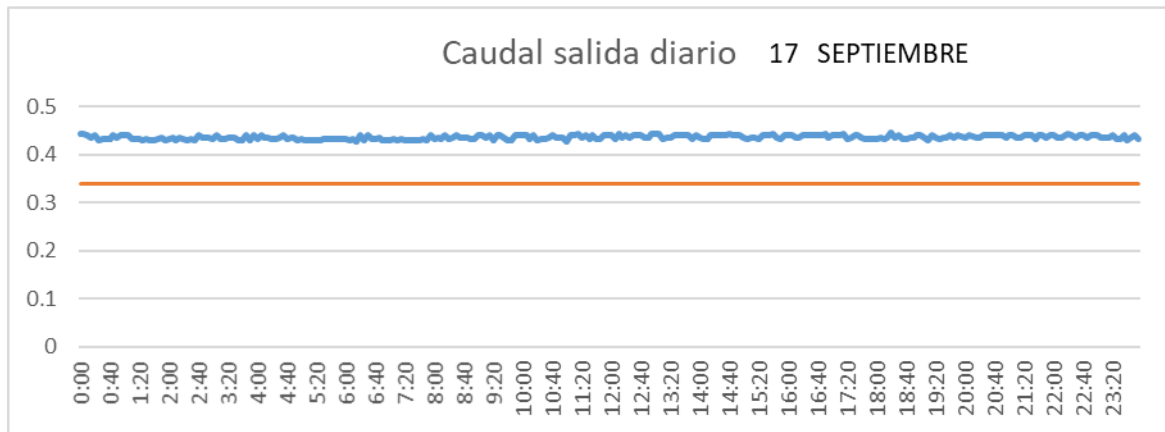
CUENCA



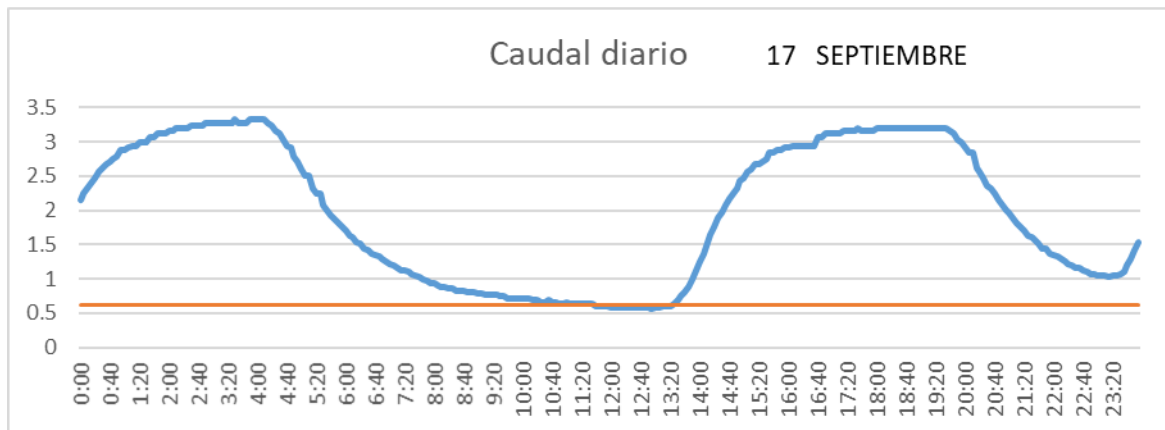
SAN LORENZO PARRILLA



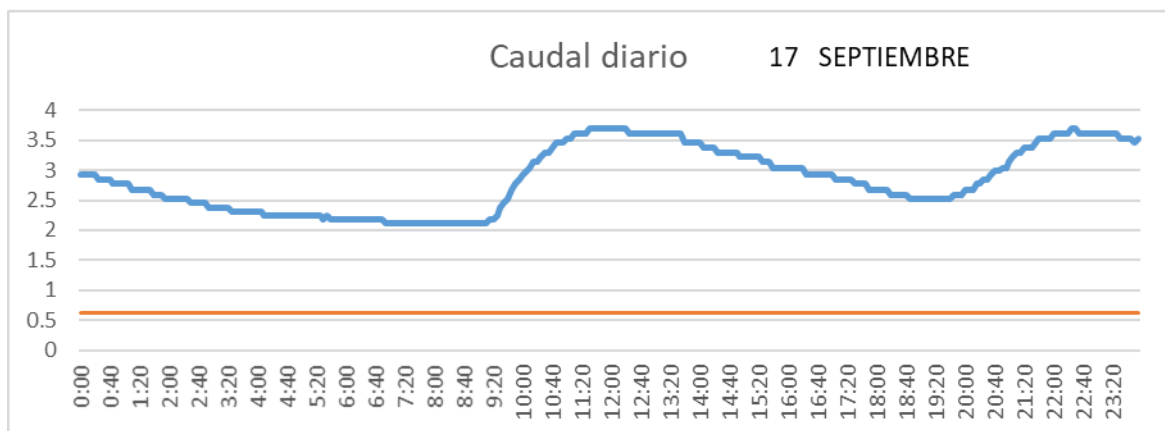
SALIDA TOBA



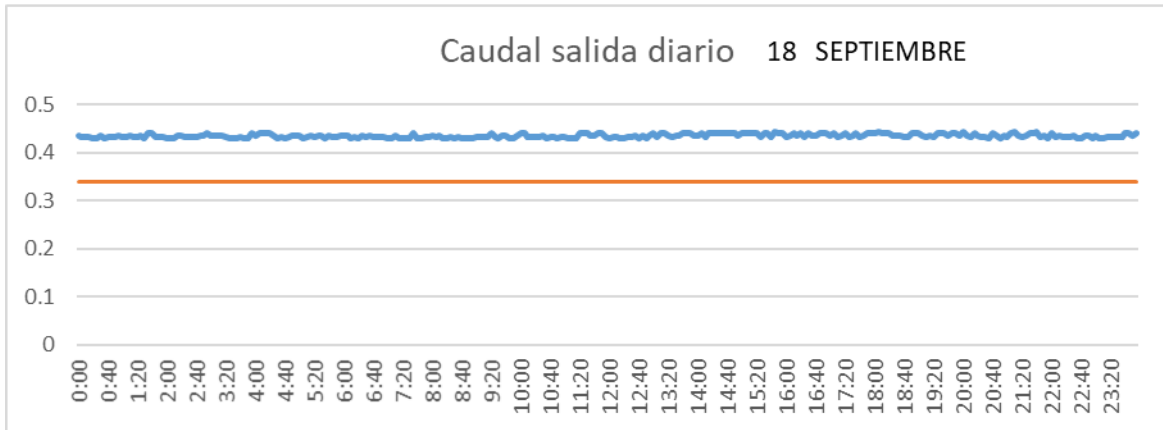
CUENCA



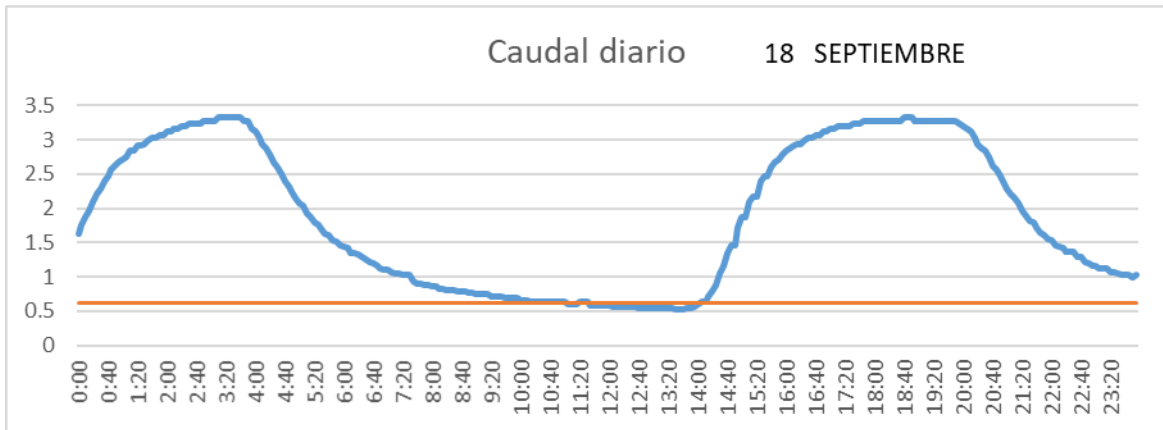
SAN LORENZO PARRILLA



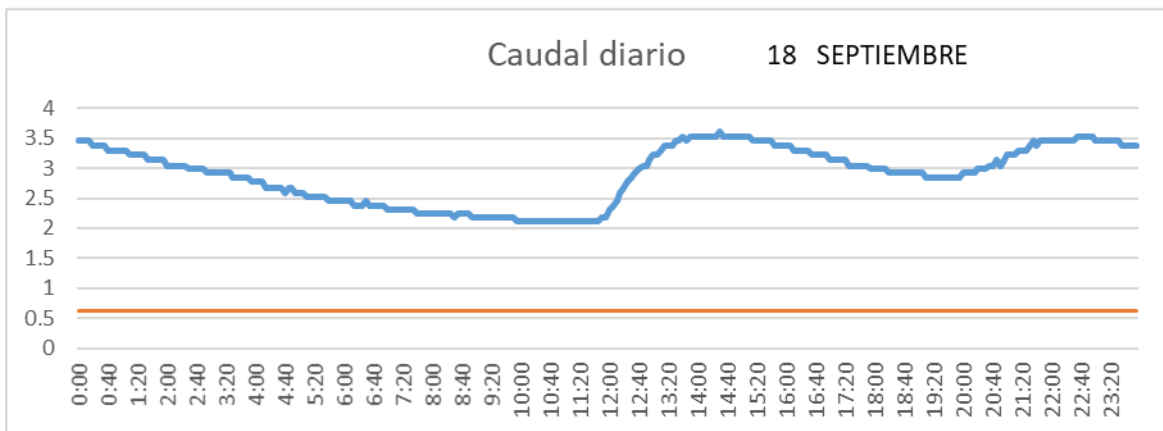
SALIDA TOBA



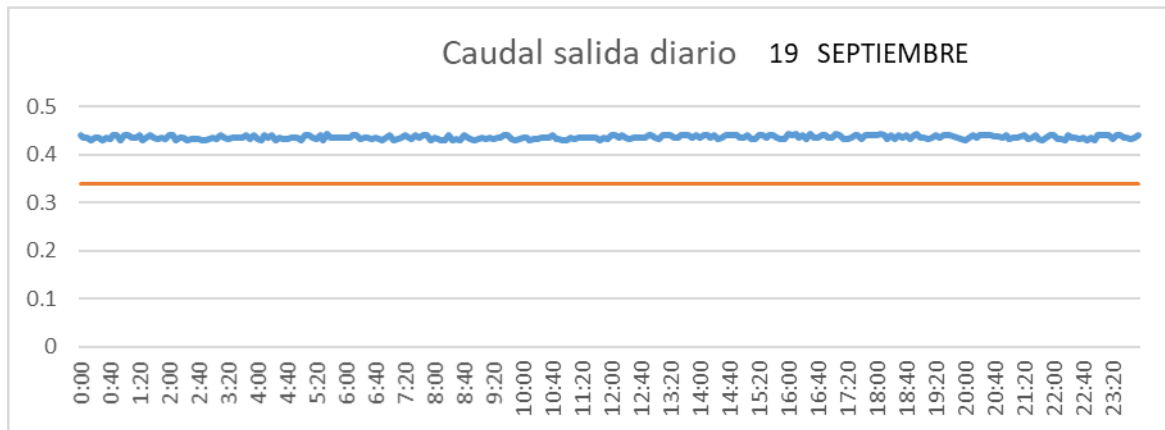
CUENCA



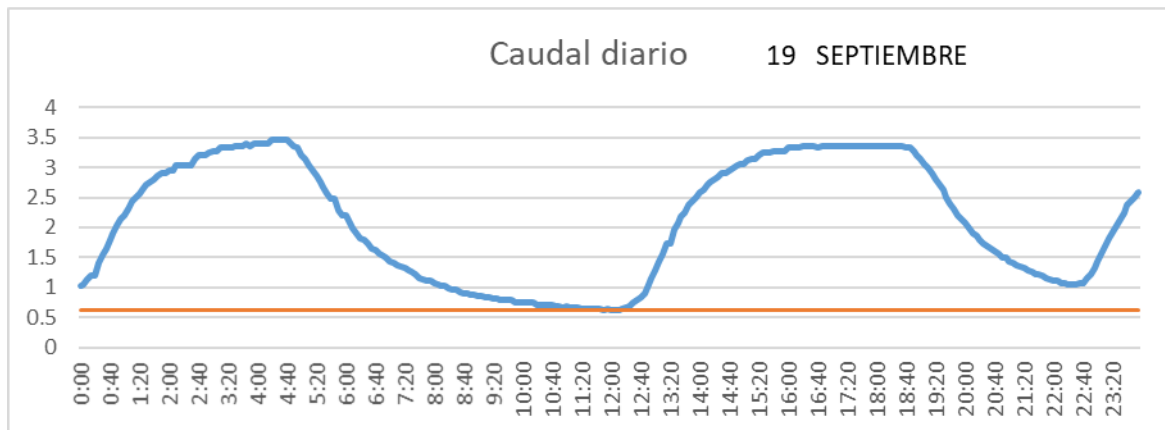
SAN LORENZO PARRILLA



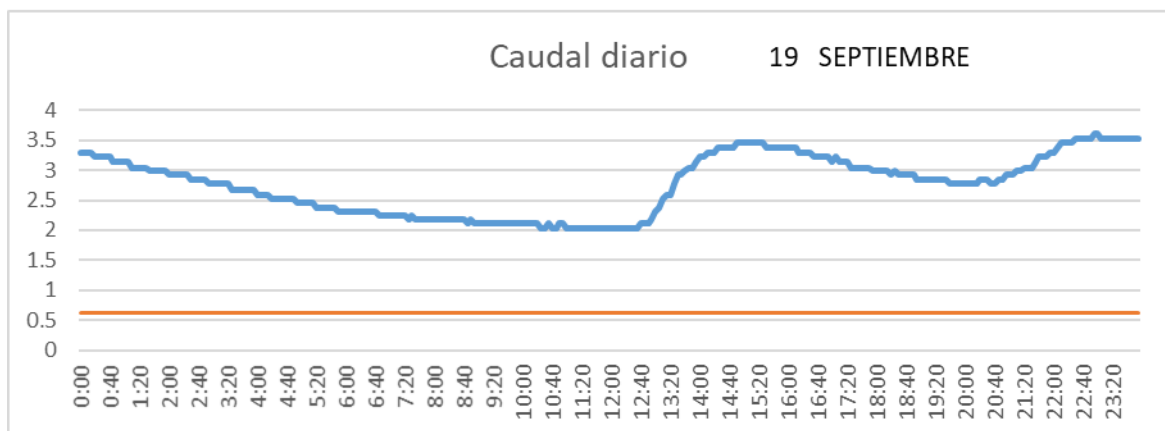
SALIDA TOBA



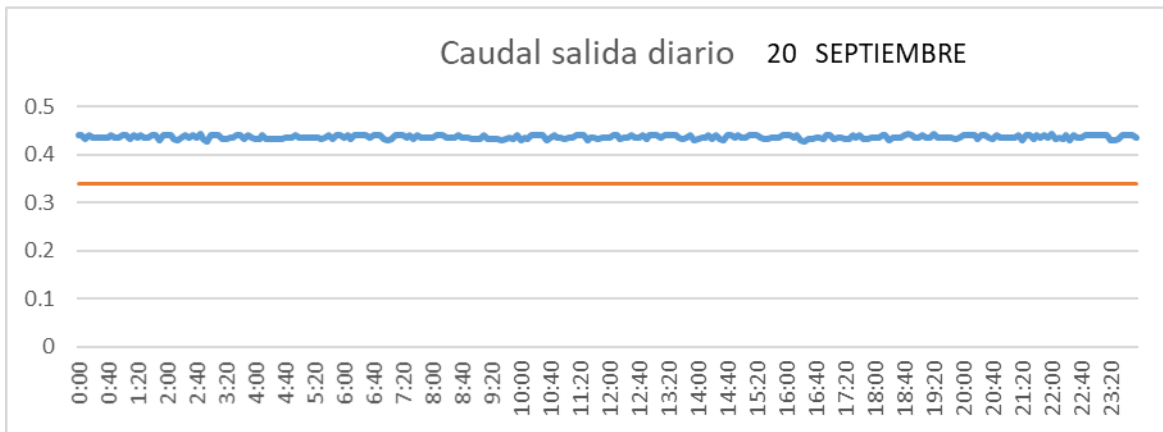
CUENCA



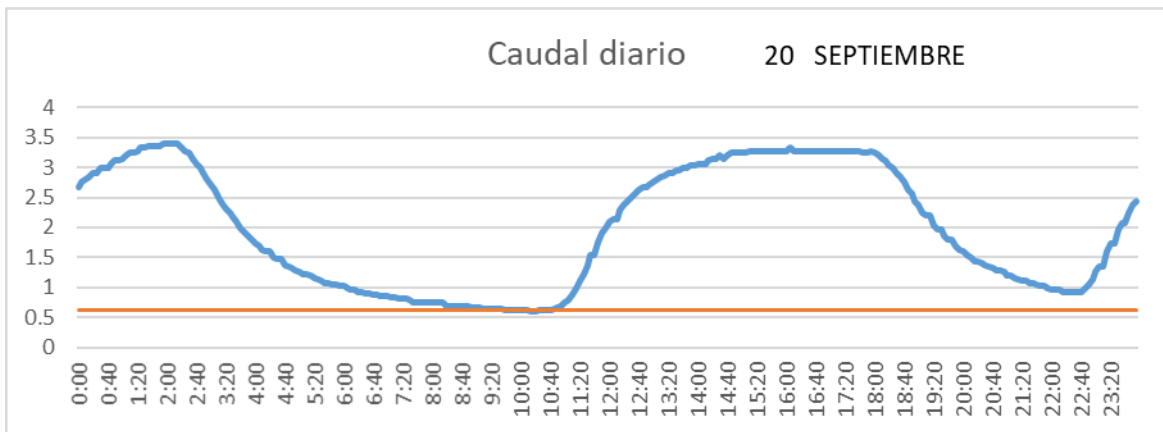
SAN LORENZO PARRILLA



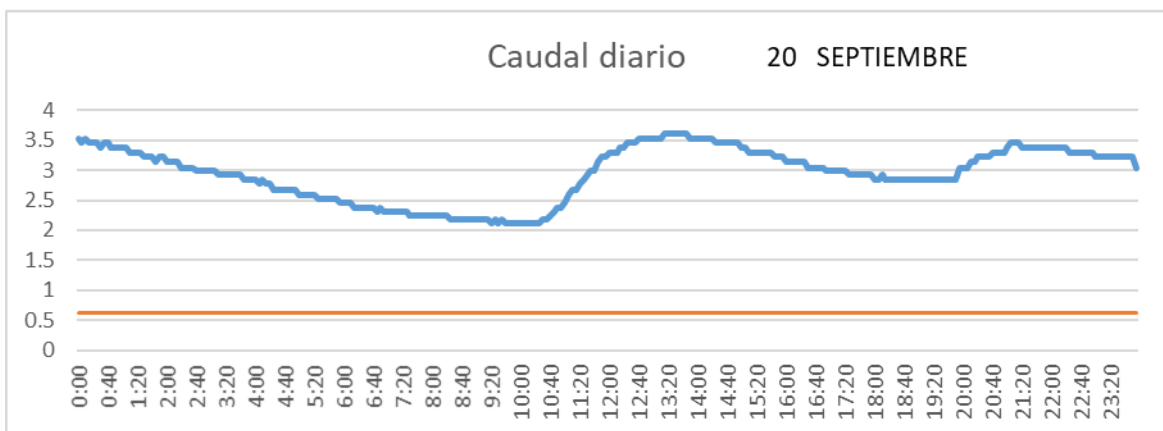
SALIDA TOBA



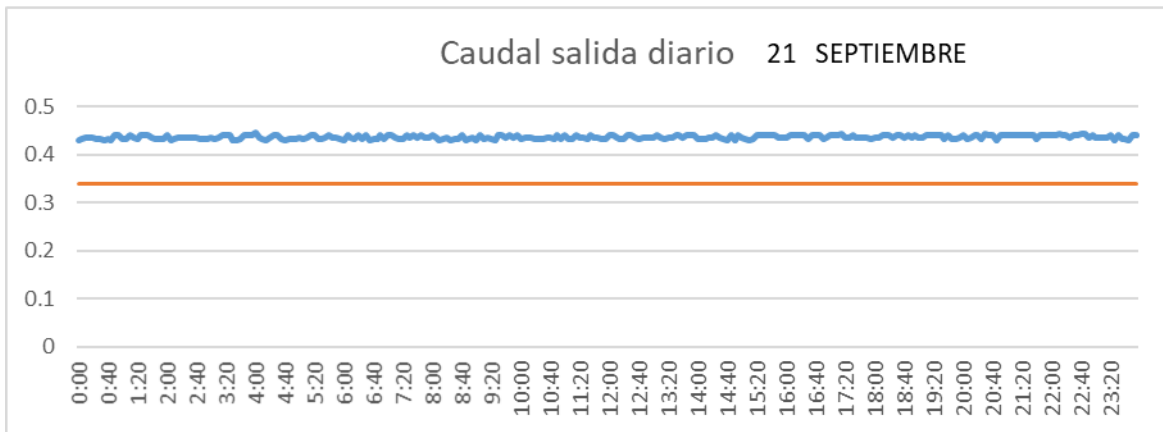
CUENCA



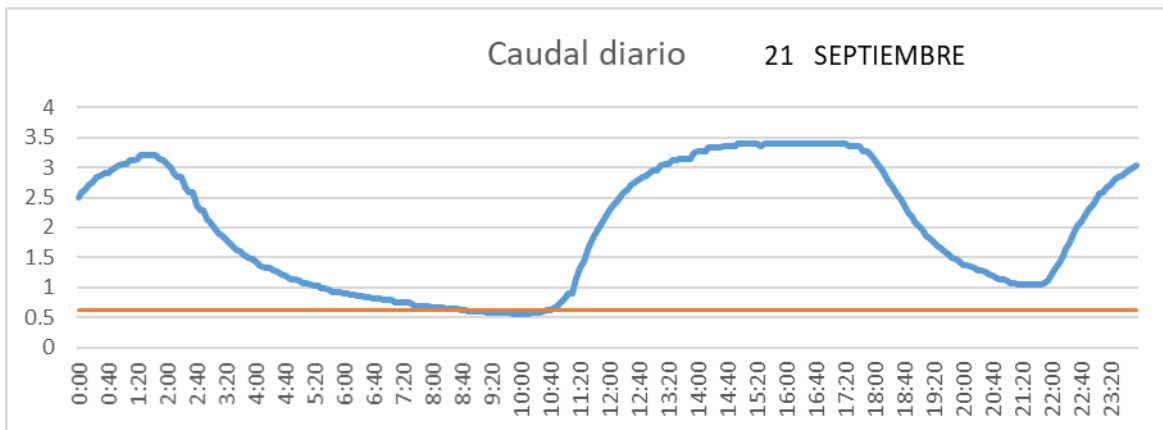
SAN LORENZO PARRILLA



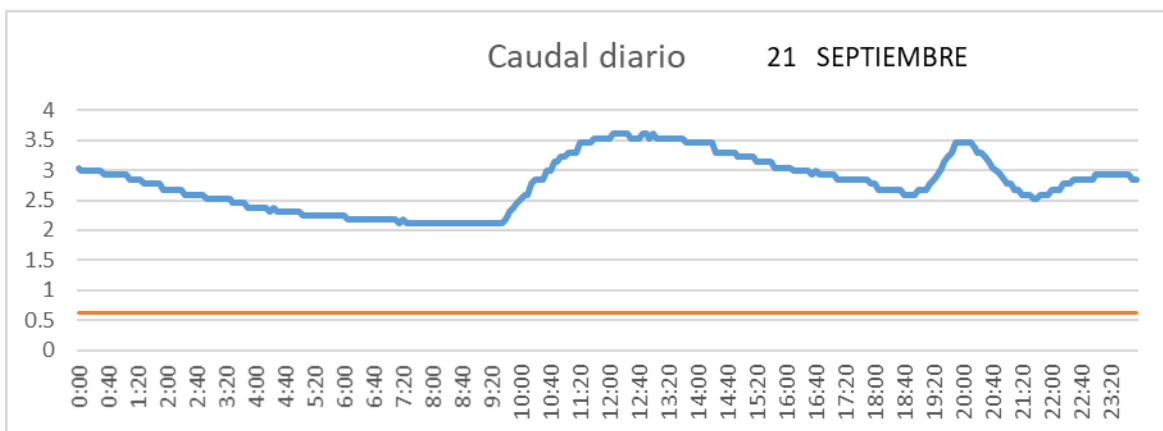
SALIDA TOBA



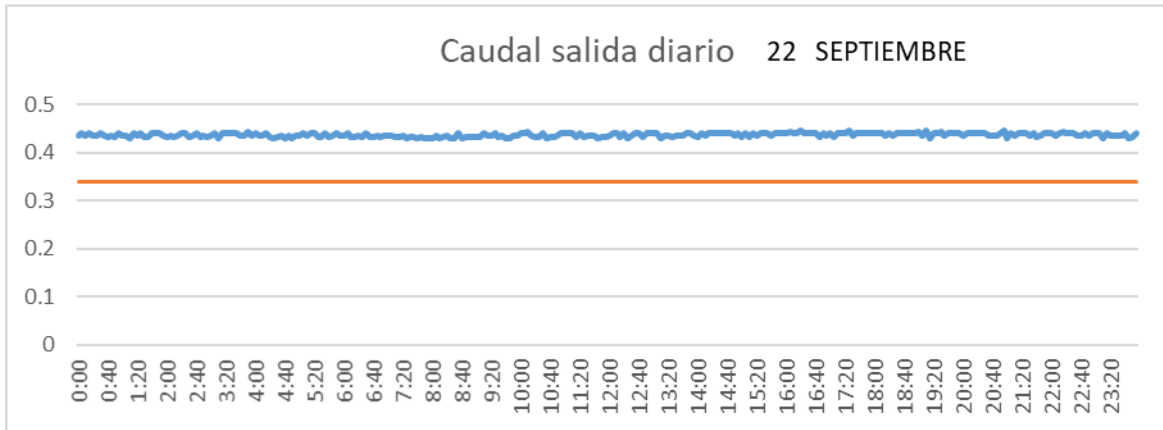
CUENCA



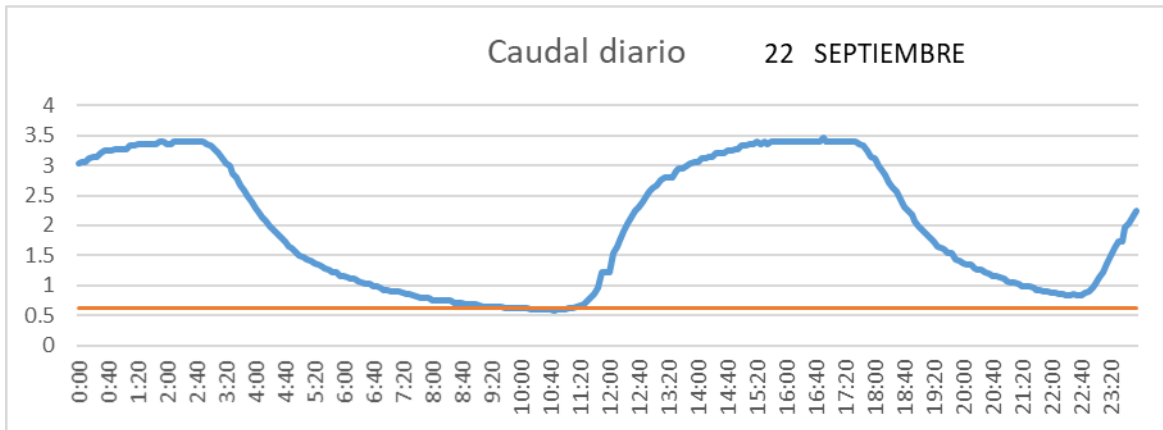
SAN LORENZO PARRILLA



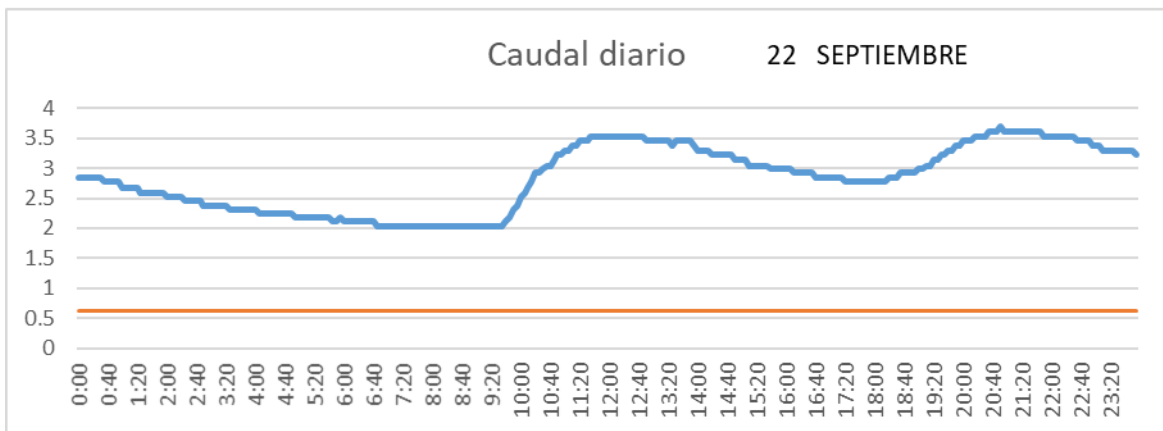
SALIDA TOBA



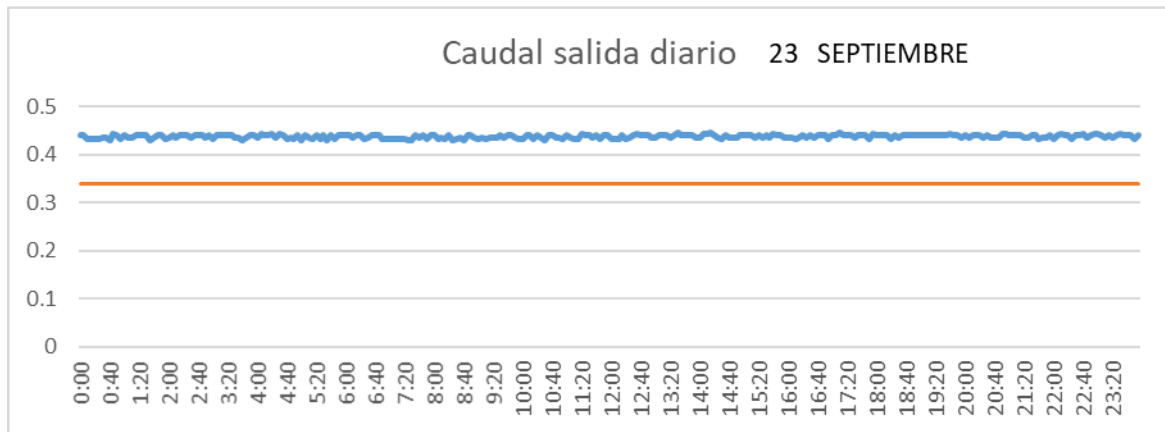
CUENCA



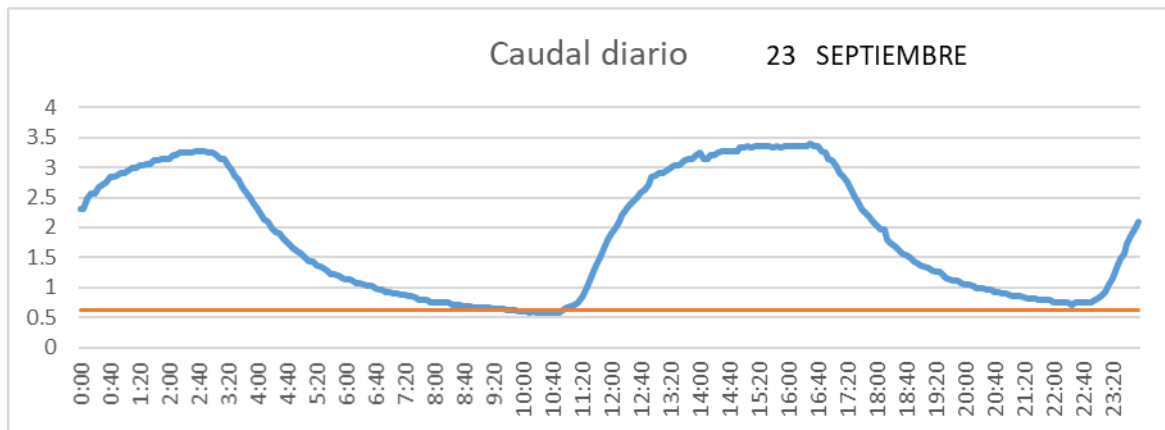
SAN LORENZO PARRILLA



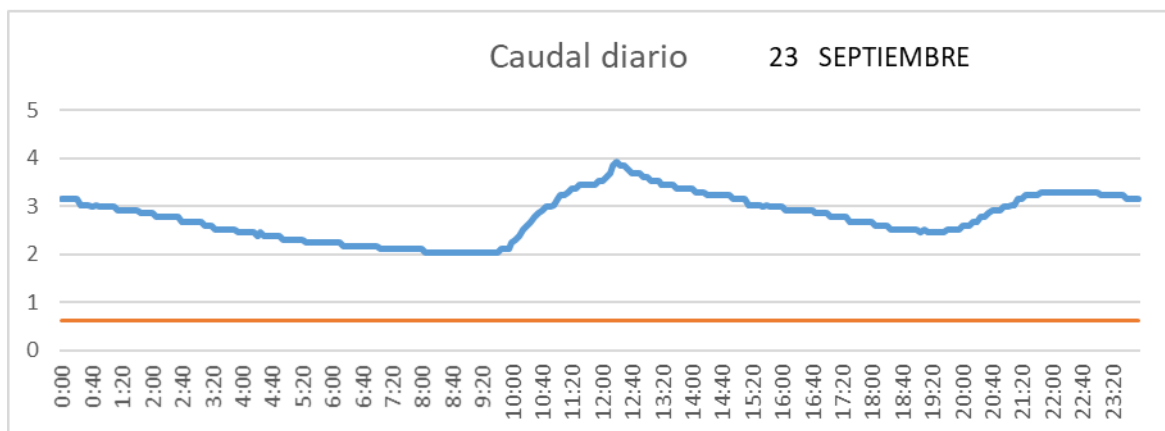
SALIDA TOBA



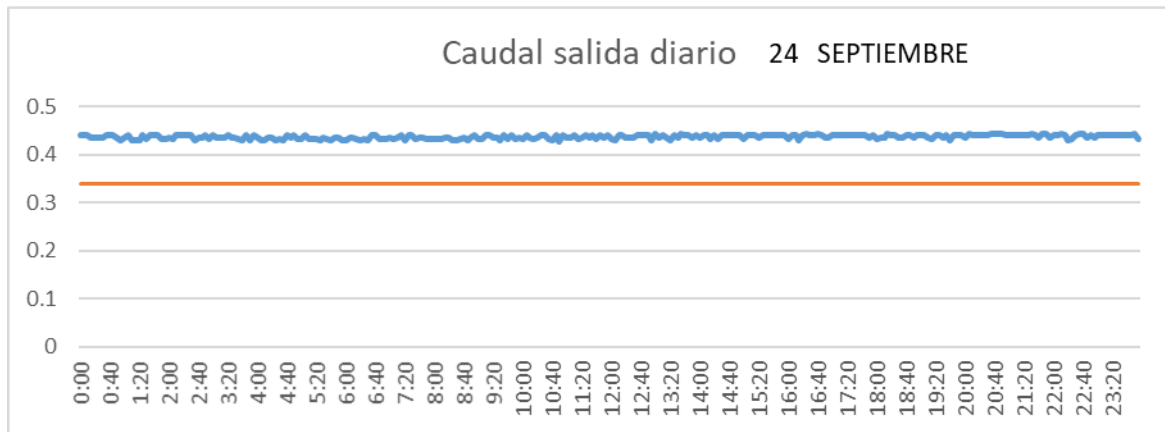
CUENCA



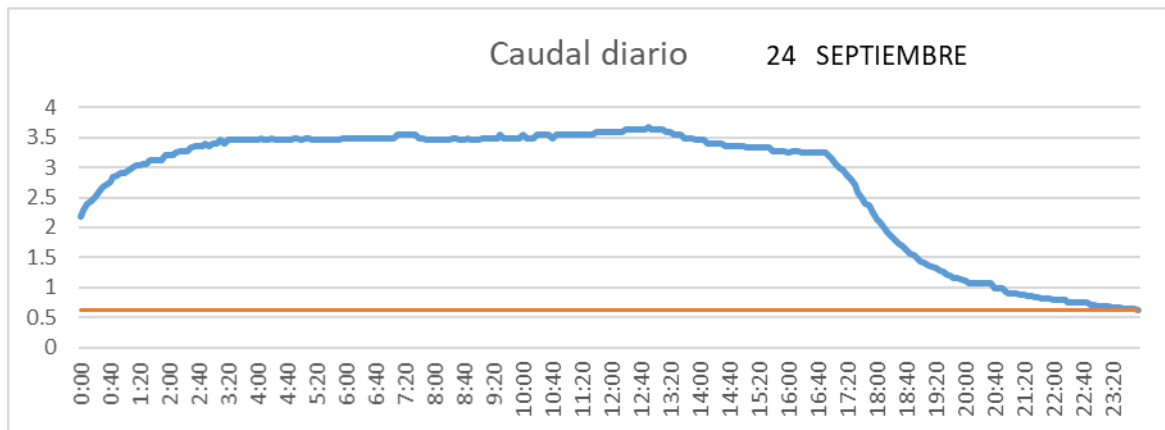
SAN LORENZO PARRILLA



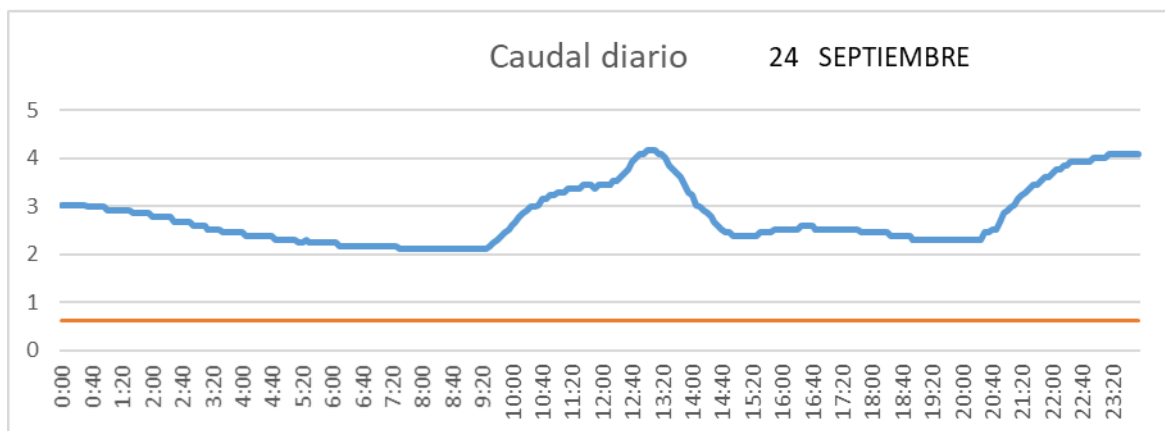
SALIDA TOBA



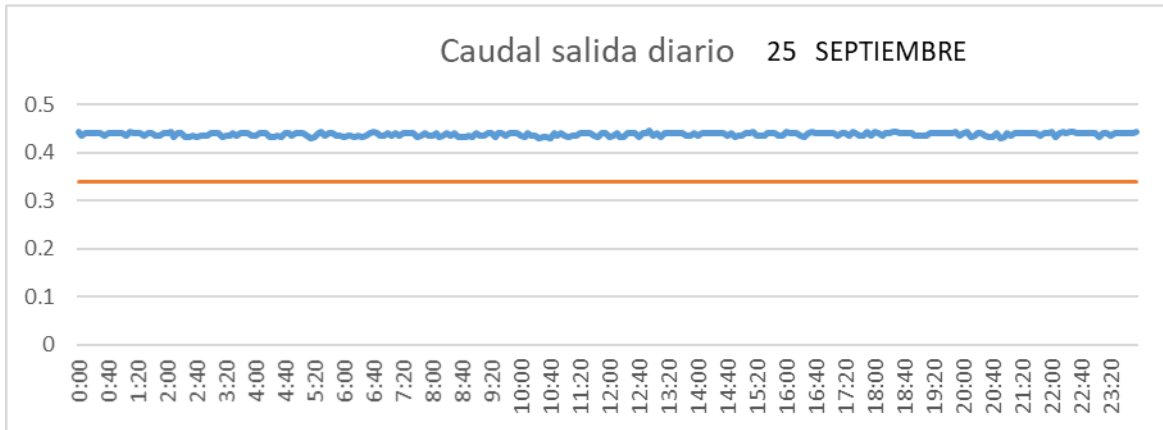
CUENCA



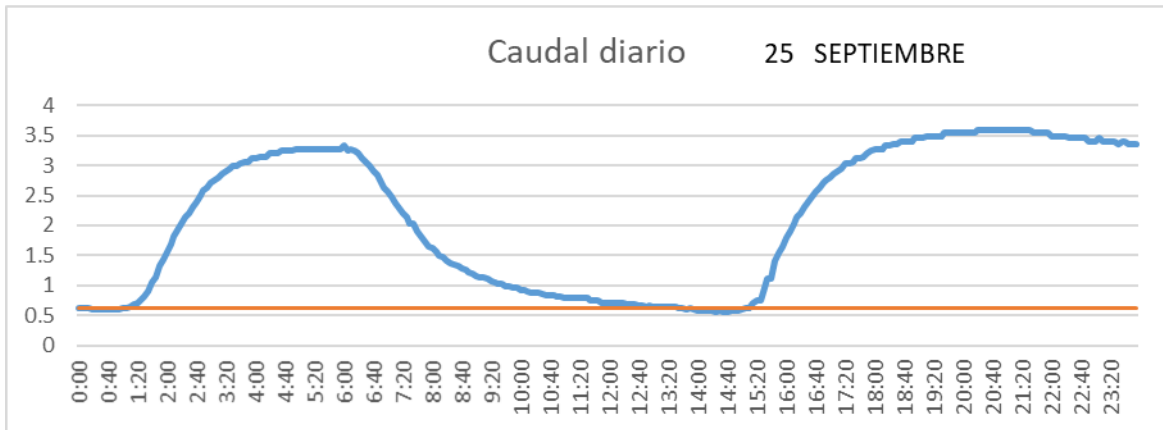
SAN LORENZO PARRILLA



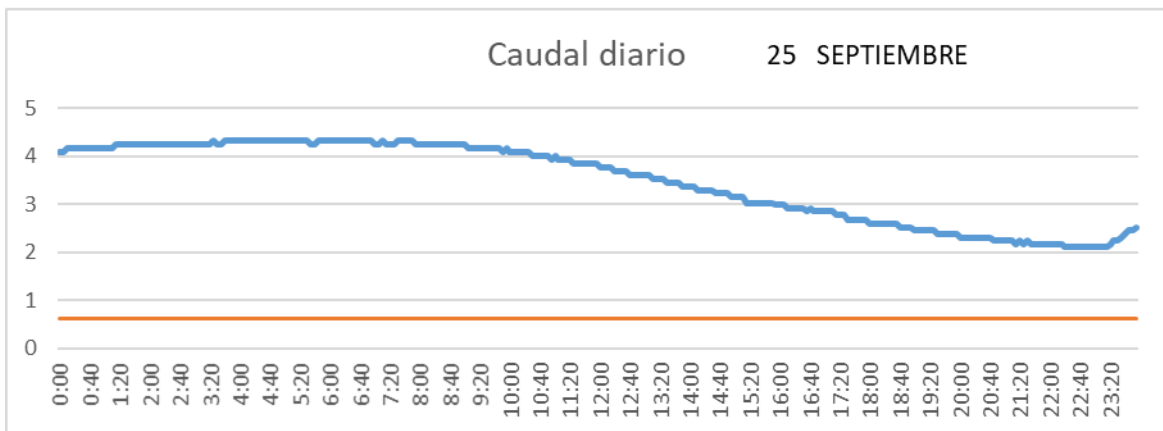
SALIDA TOBA



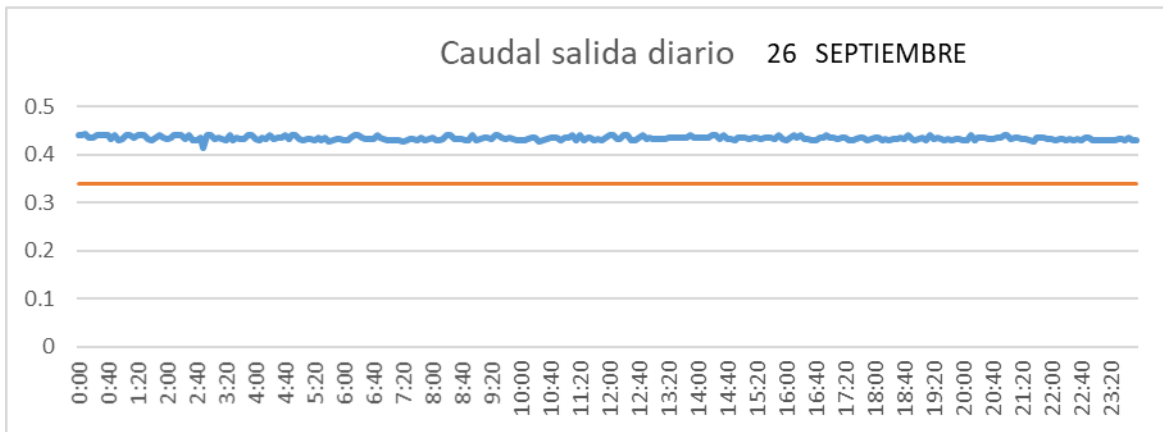
CUENCA



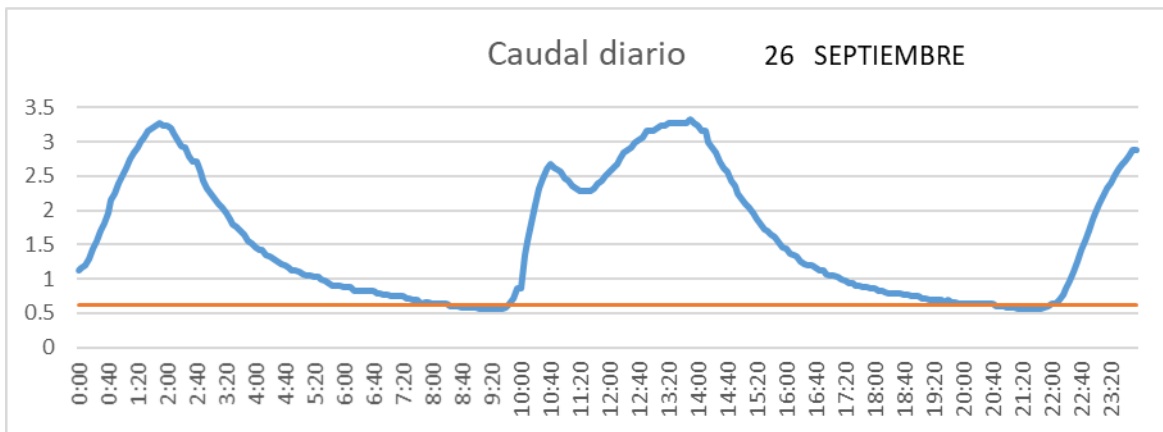
SAN LORENZO PARRILLA



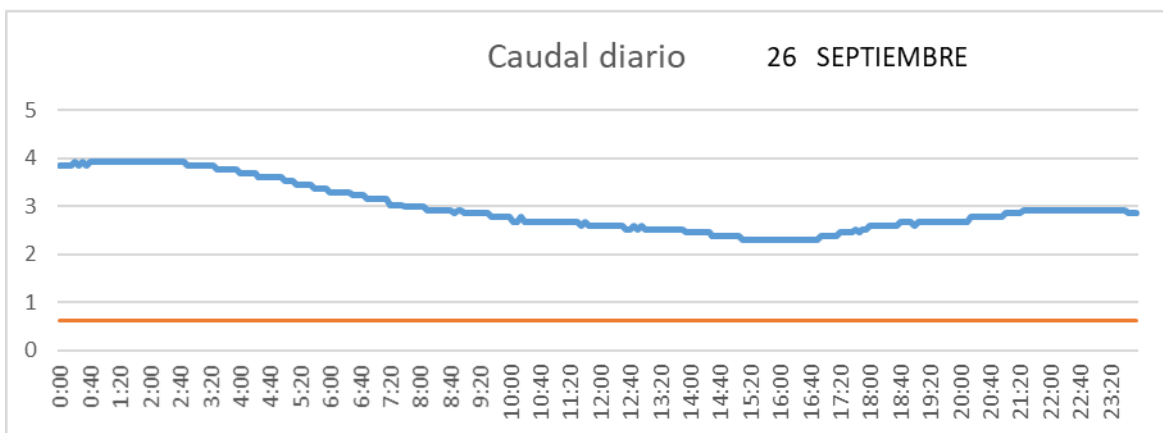
SALIDA TOBA



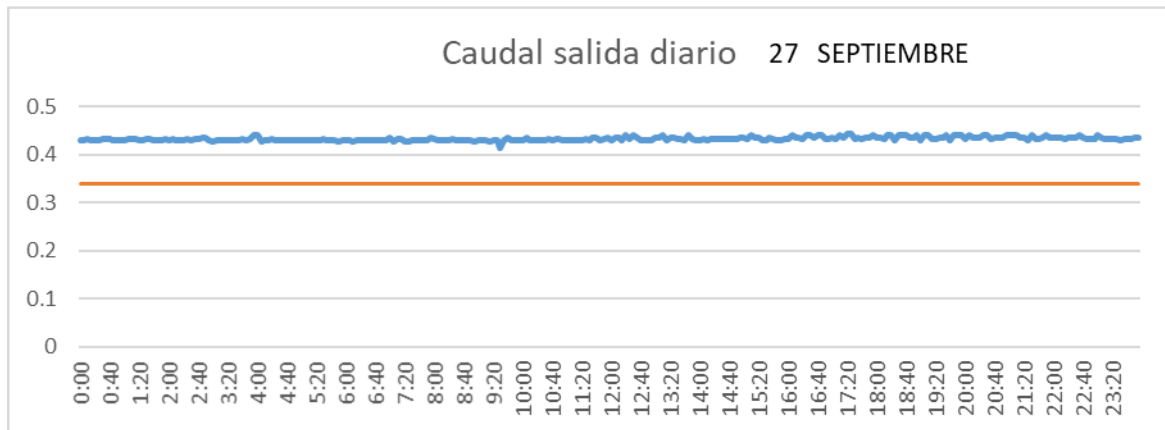
CUENCA



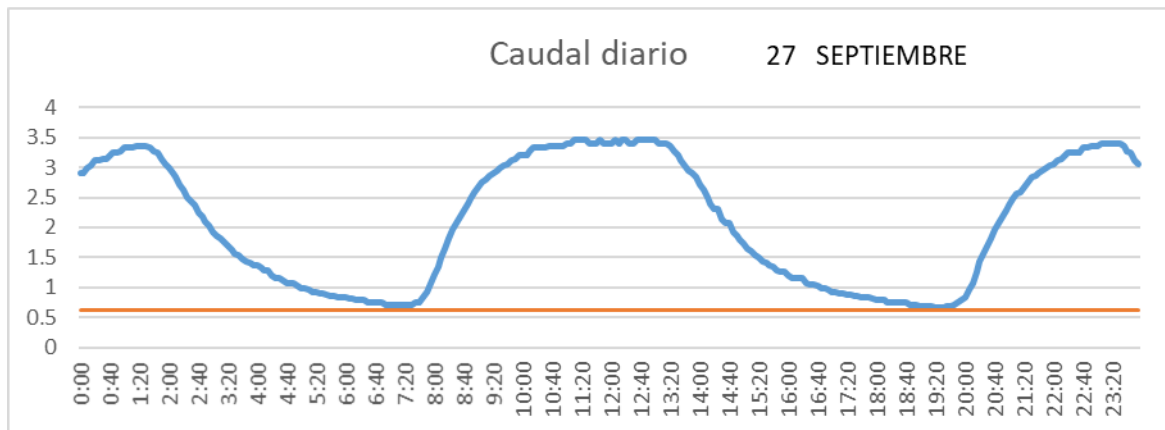
SAN LORENZO PARRILLA



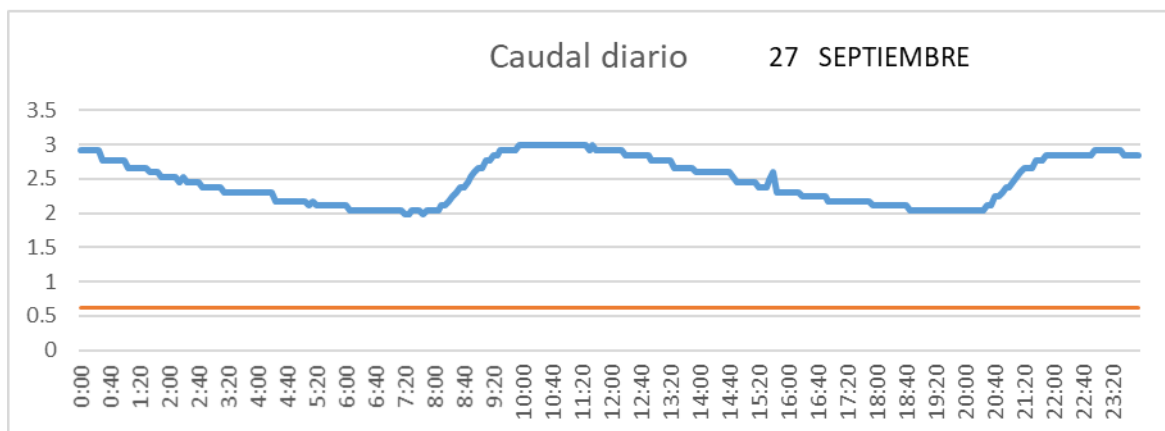
SALIDA TOBA



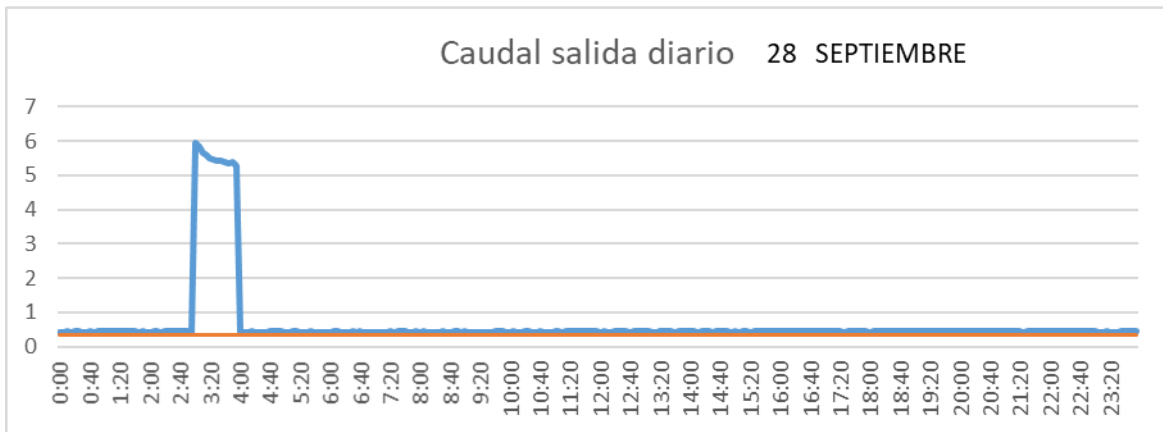
CUENCA



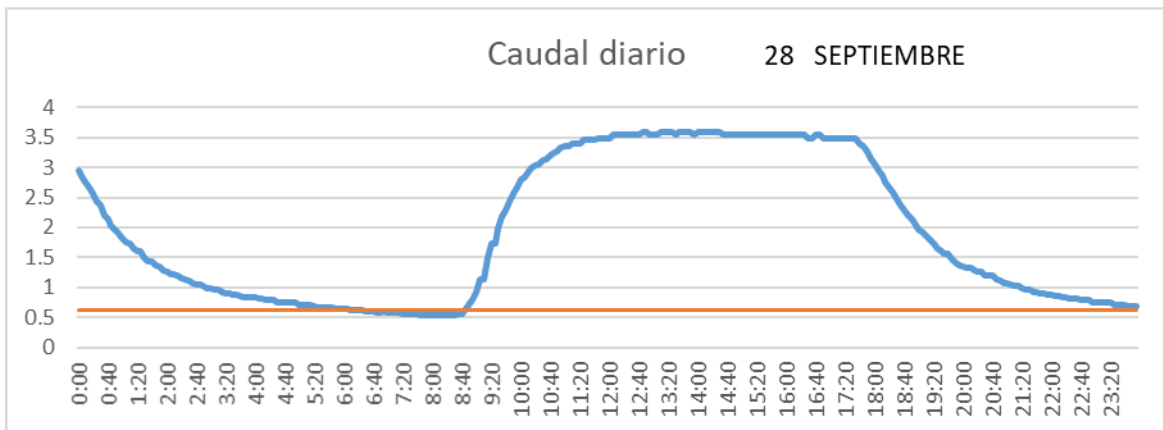
SAN LORENZO PARRILLA



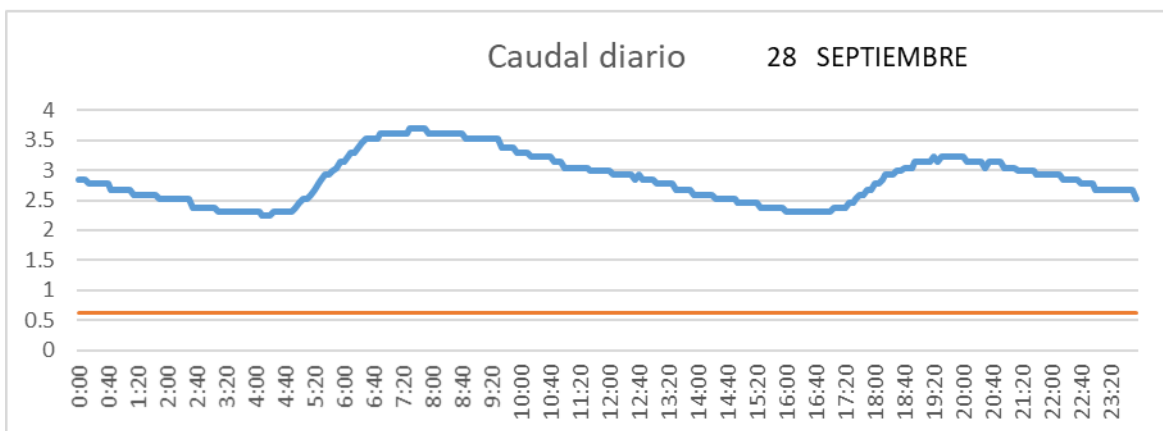
SALIDA TOBA



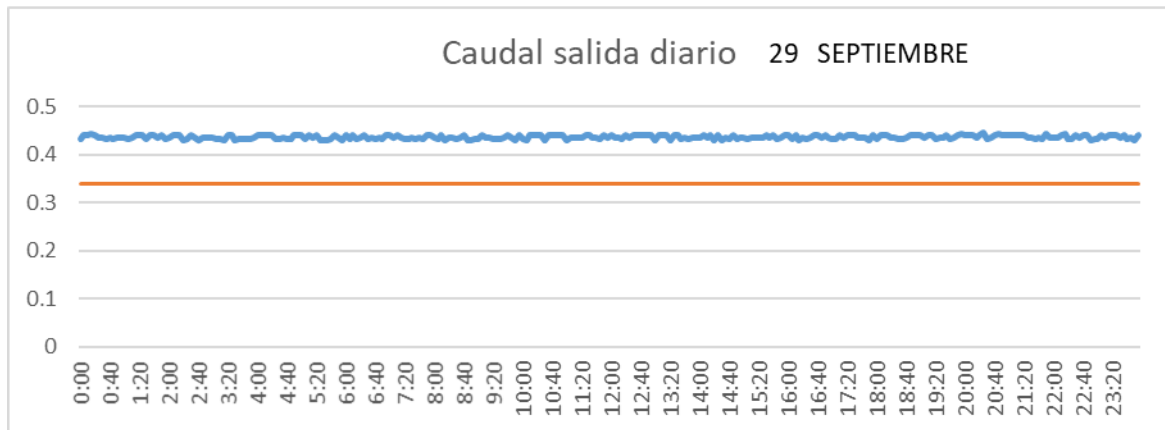
CUENCA



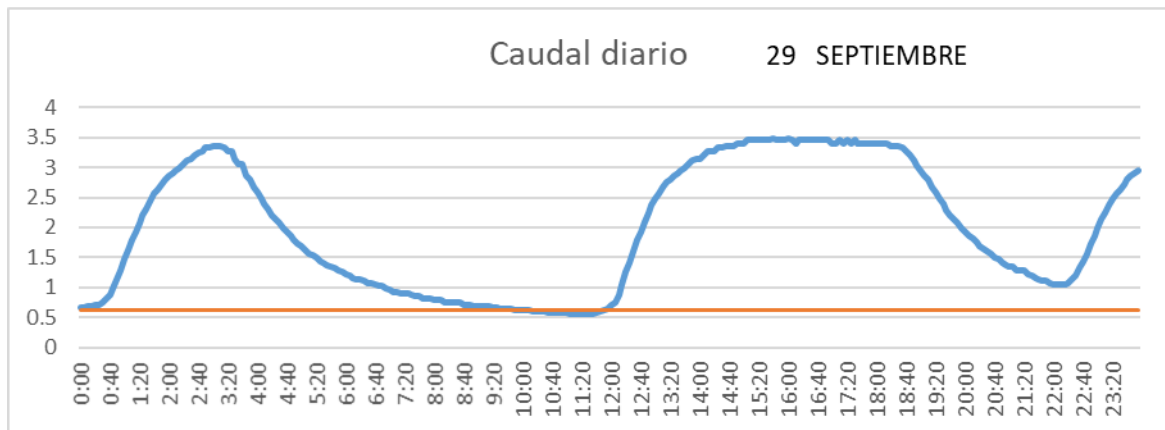
SAN LORENZO PARRILLA



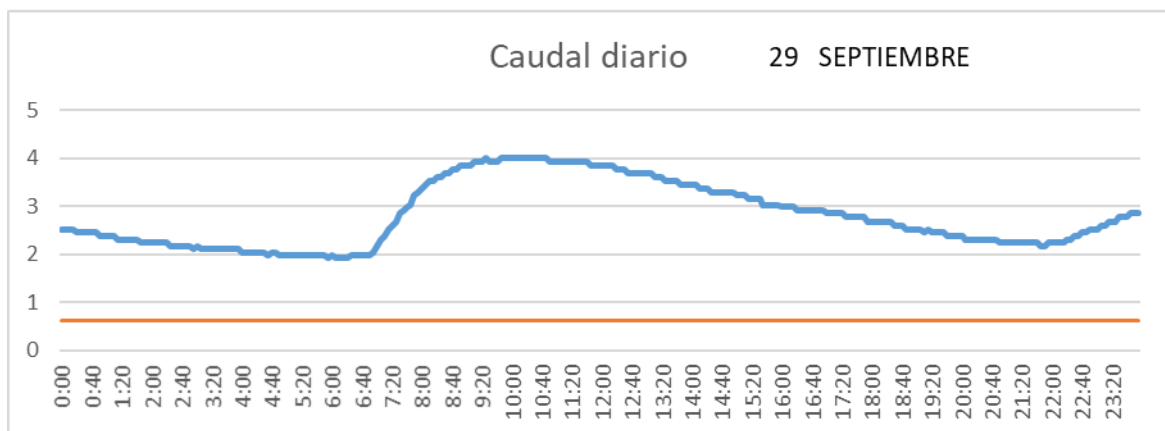
SALIDA TOBA



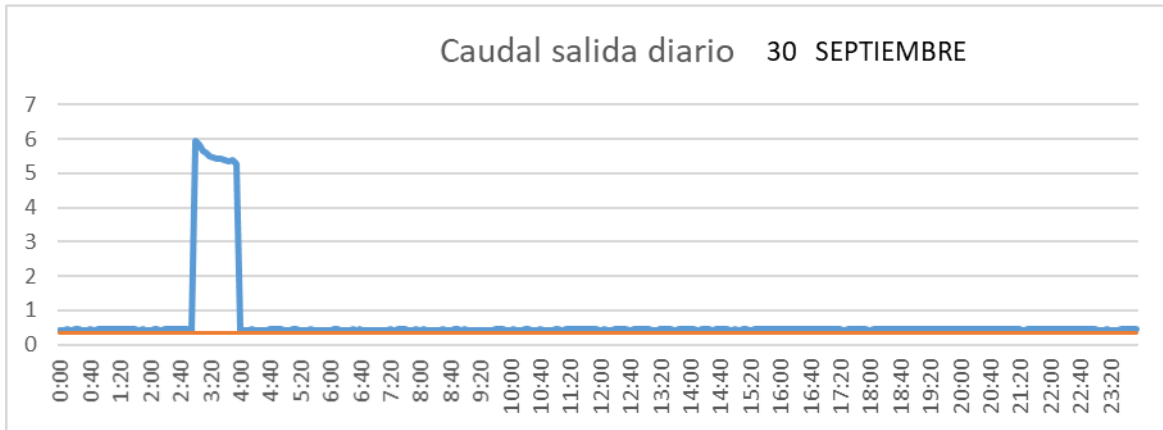
CUENCA



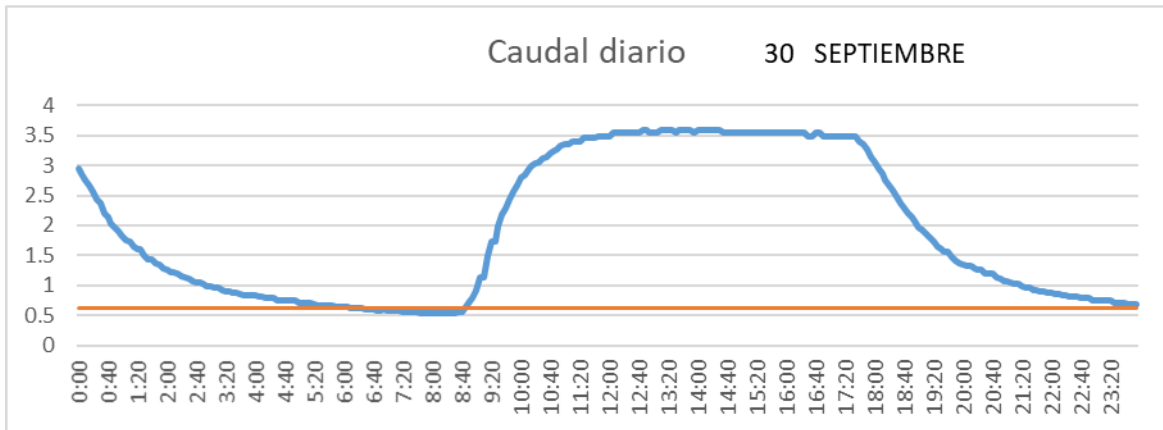
SAN LORENZO PARRILLA



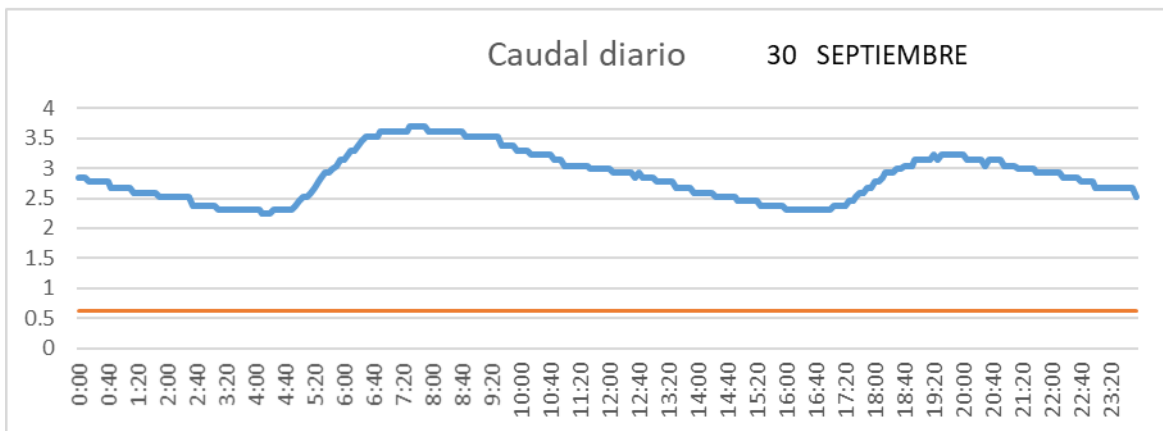
SALIDA TOBA



CUENCA

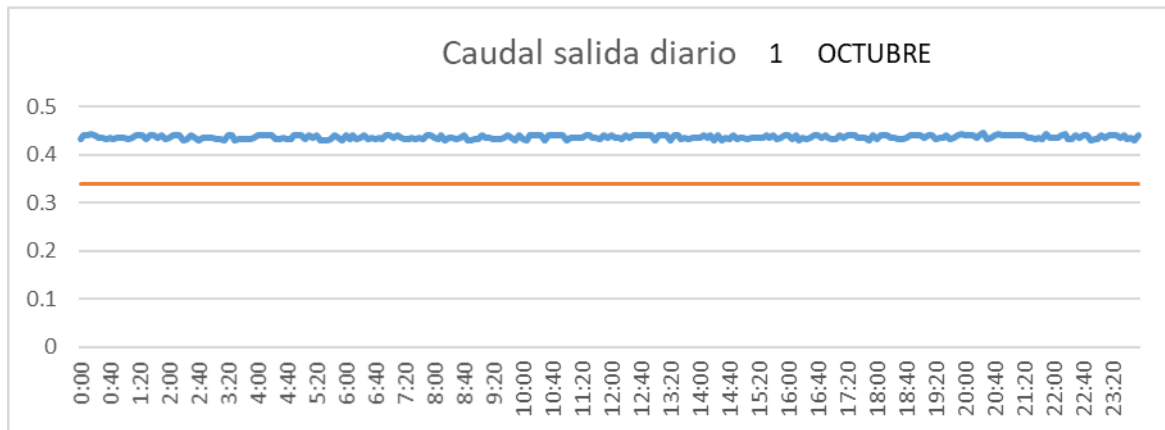


SAN LORENZO PARRILLA

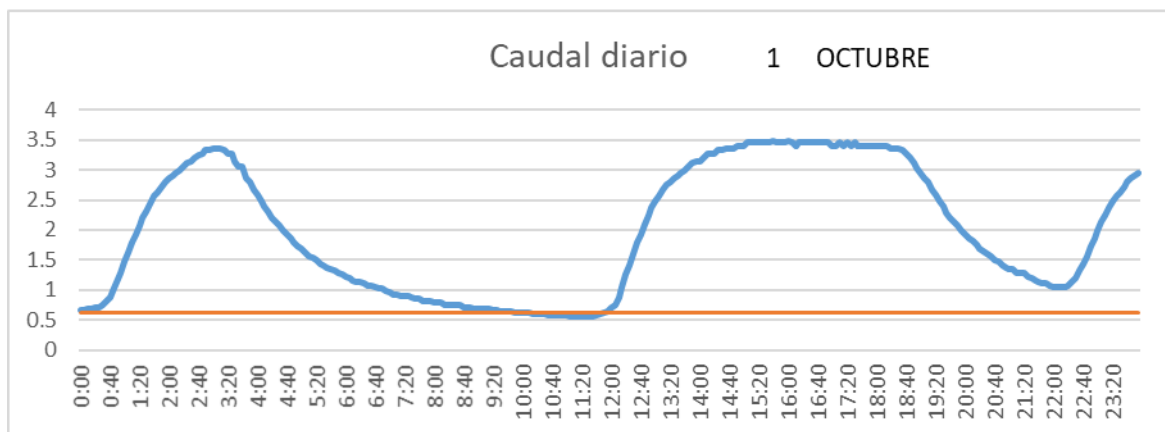


2.2.10 Octubre

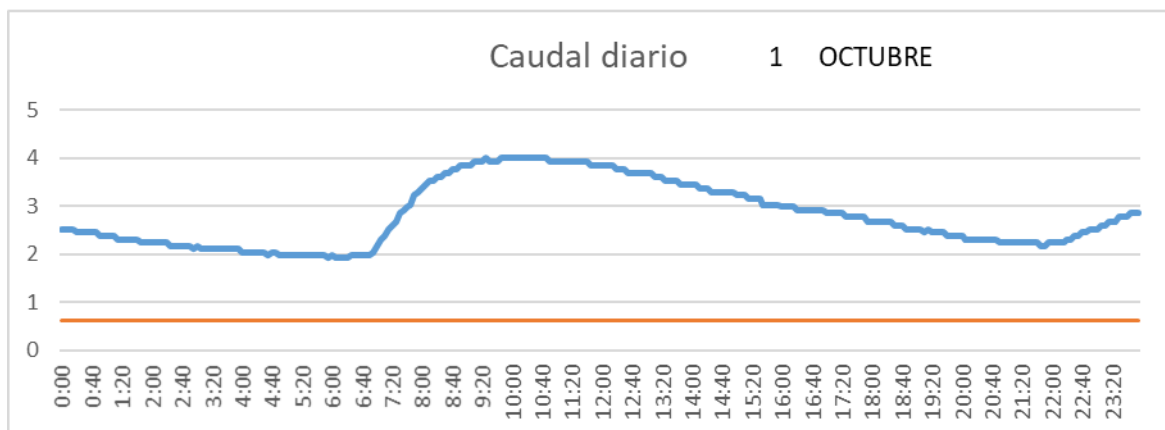
SALIDA TOBA



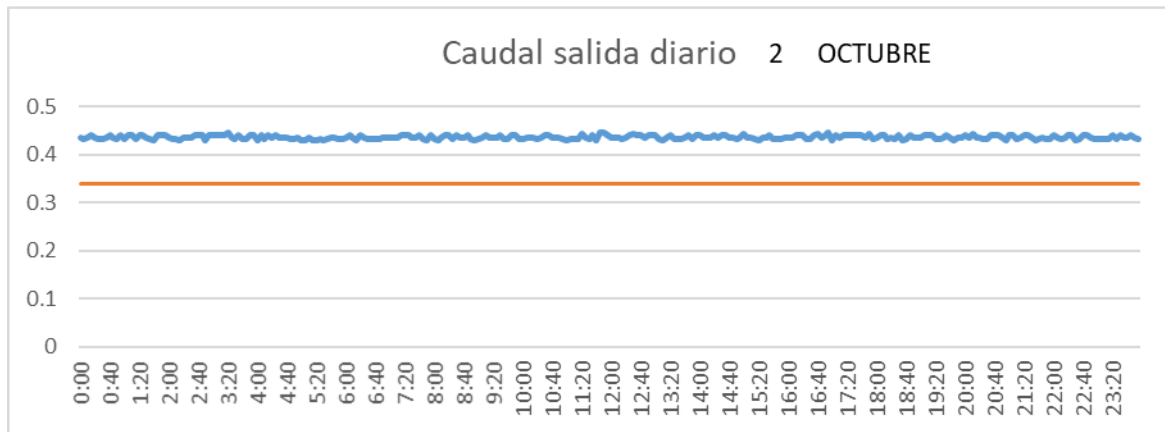
CUENCA



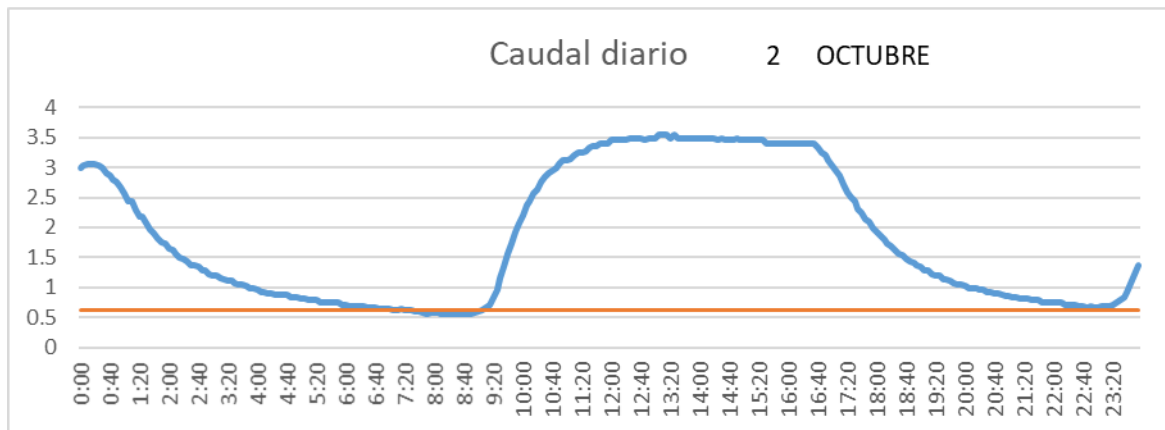
SAN LORENZO PARRILLA



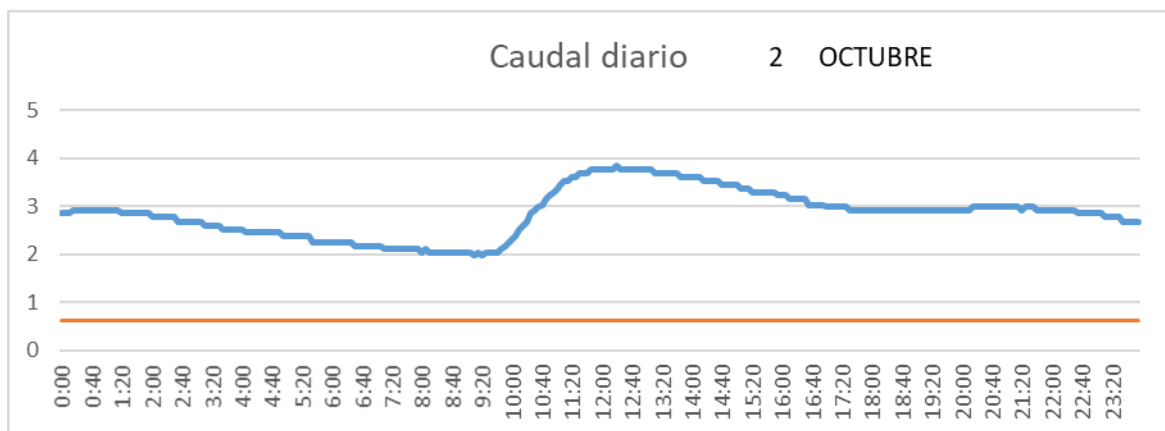
SALIDA TOBA



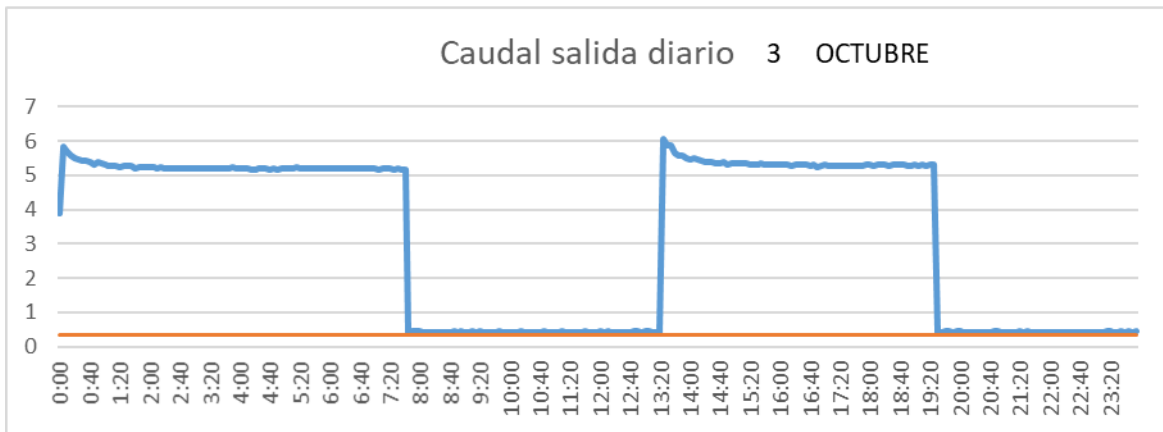
CUENCA



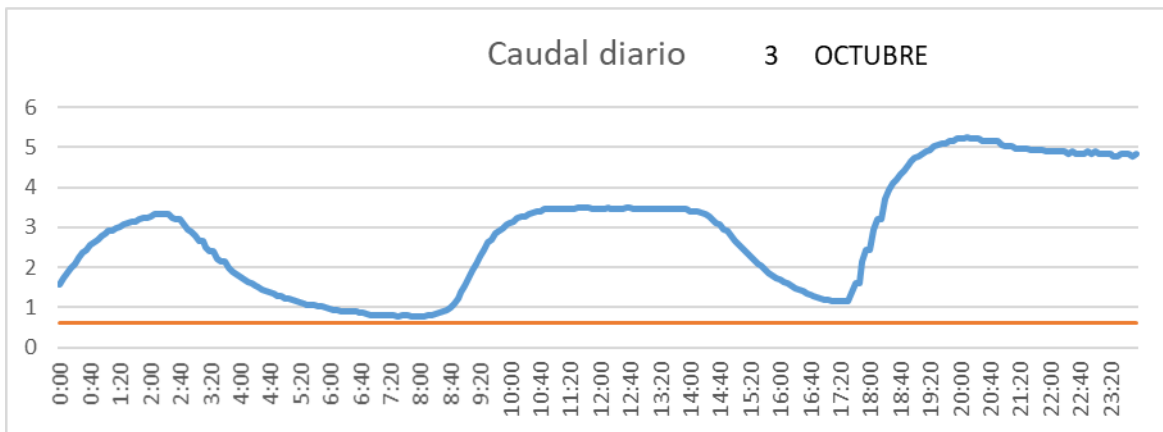
SAN LORENZO PARRILLA



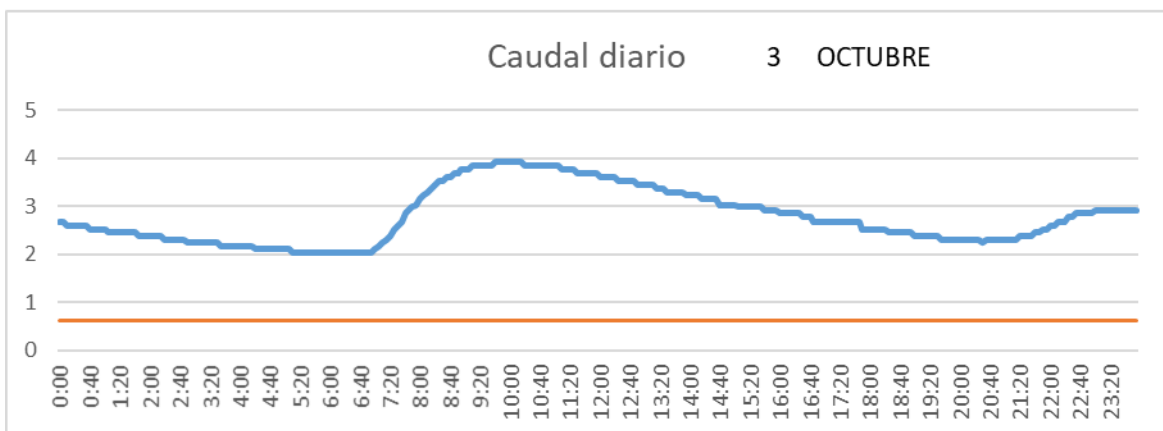
SALIDA TOBA



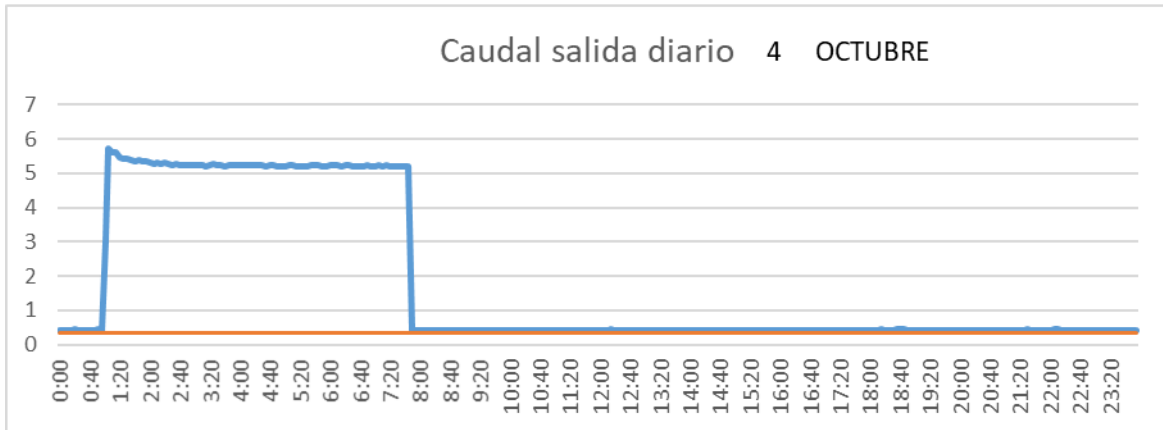
CUENCA



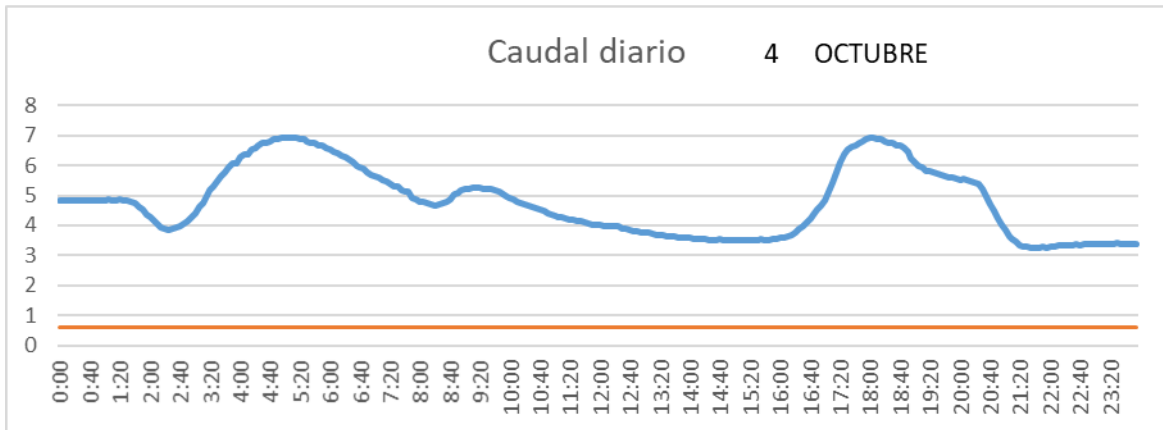
SAN LORENZO PARRILLA



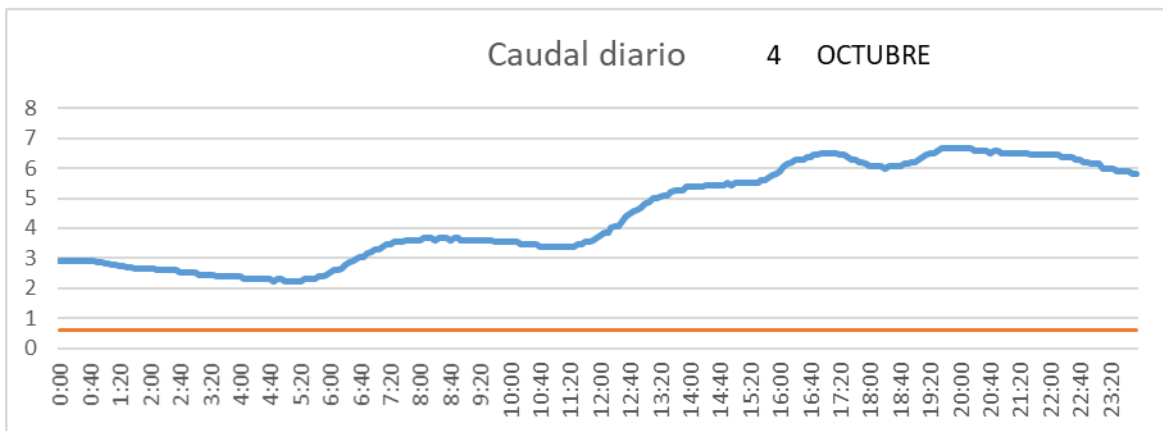
SALIDA TOBA



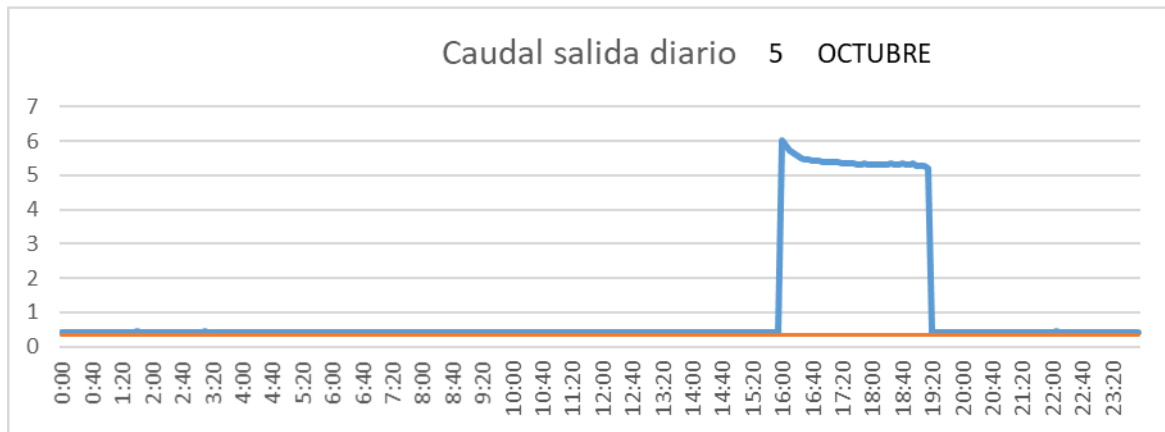
CUENCA



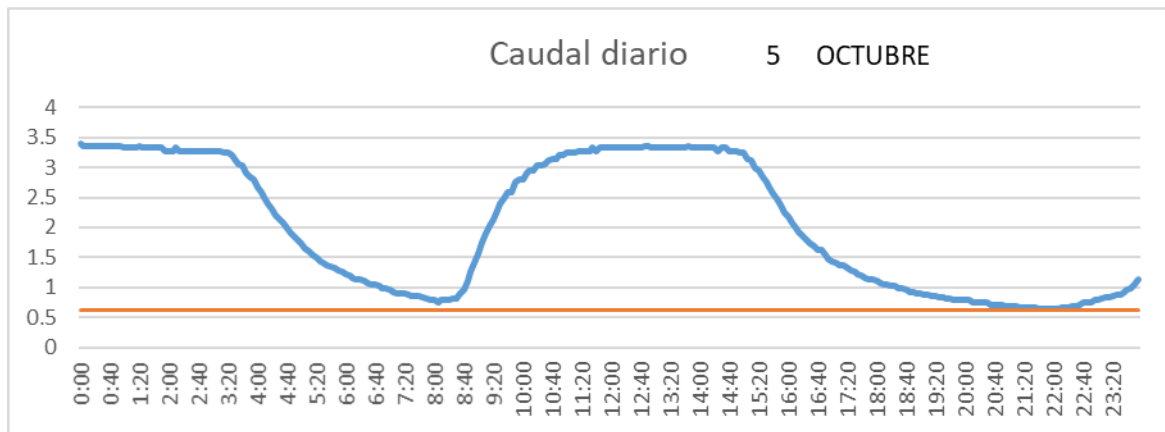
SAN LORENZO PARRILLA



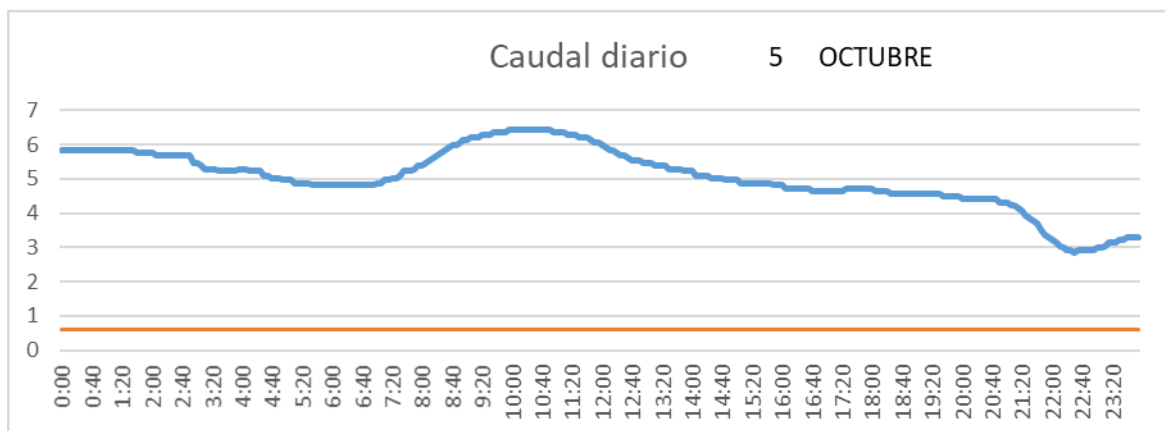
SALIDA TOBA



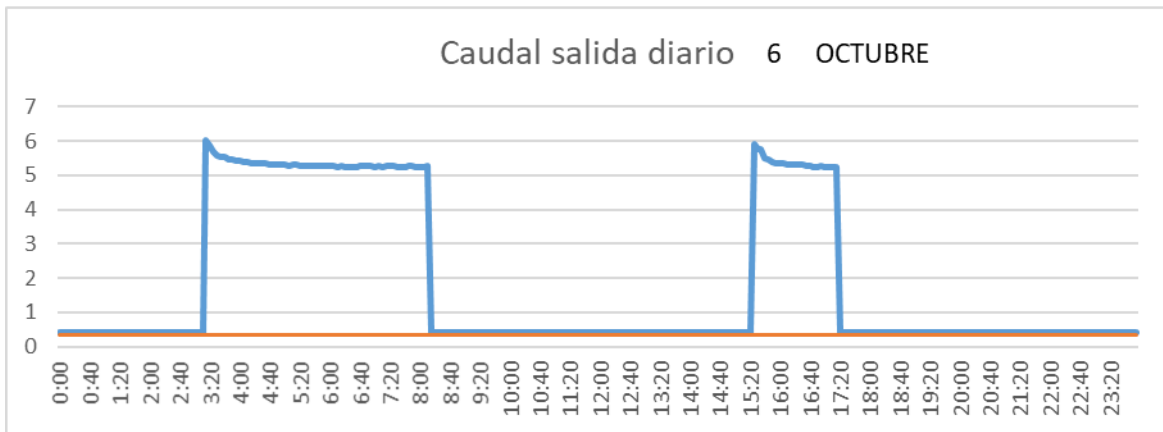
CUENCA



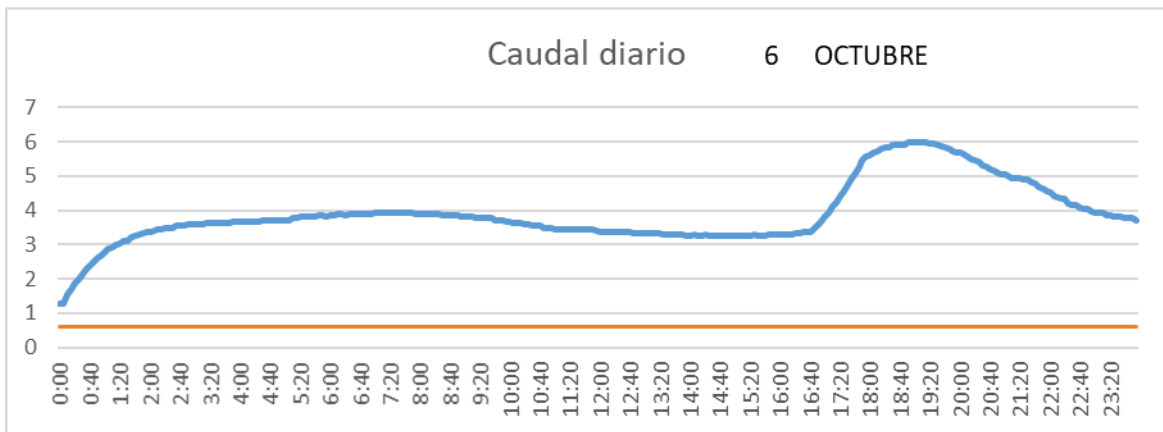
SAN LORENZO PARRILLA



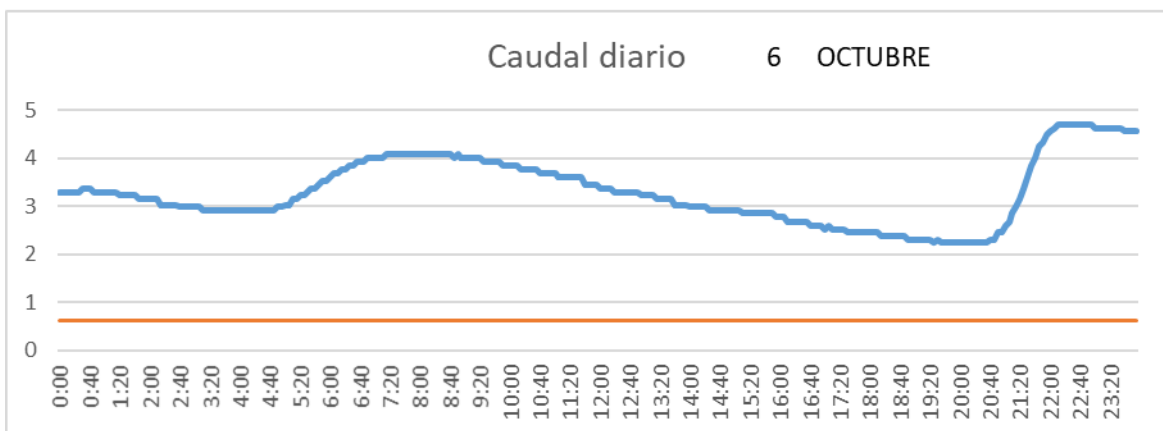
SALIDA TOBA



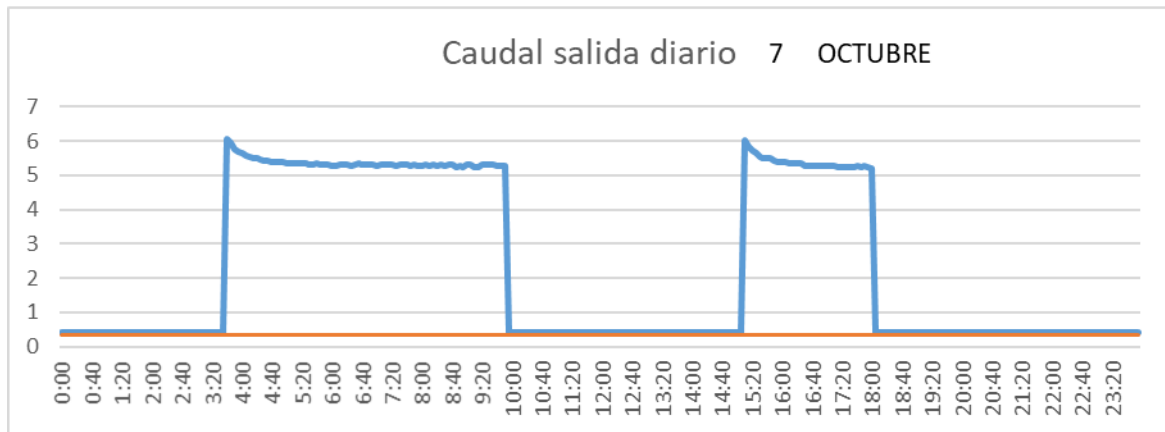
CUENCA



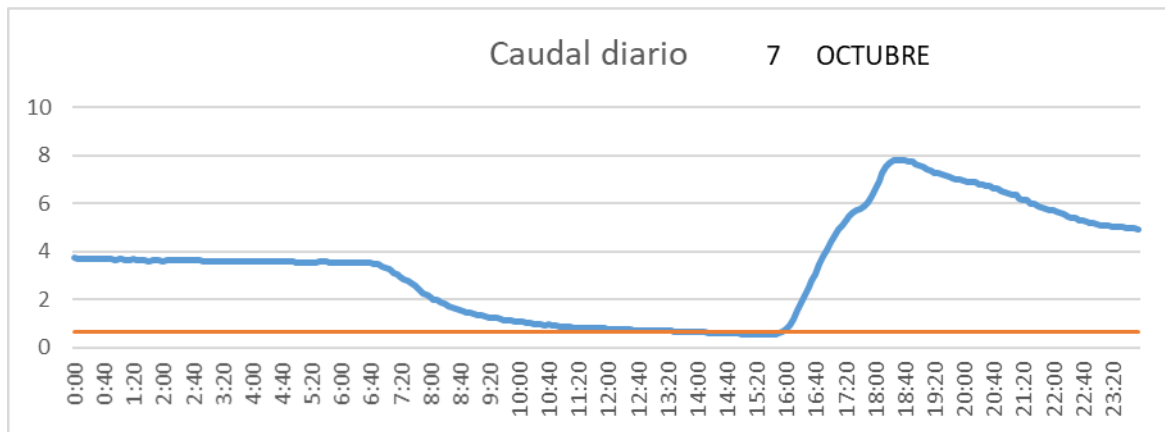
SAN LORENZO PARRILLA



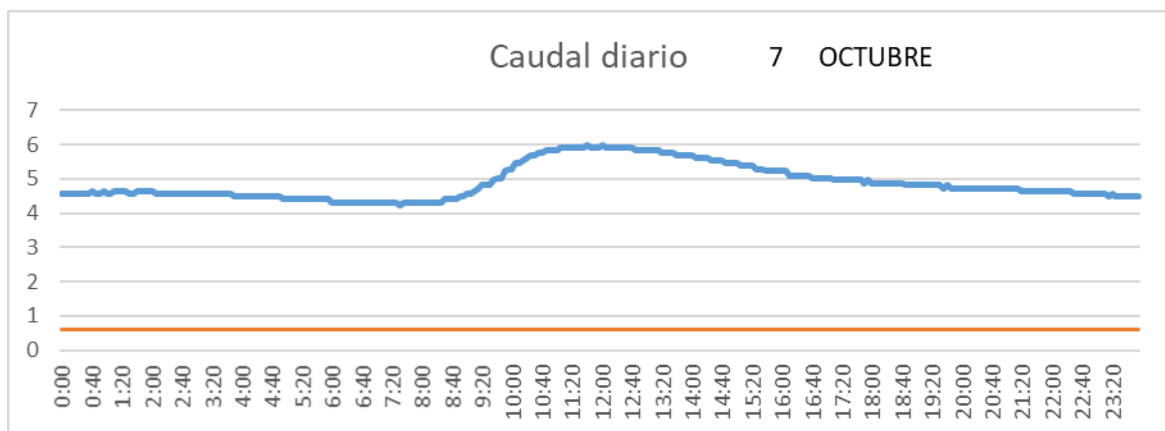
SALIDA TOBA



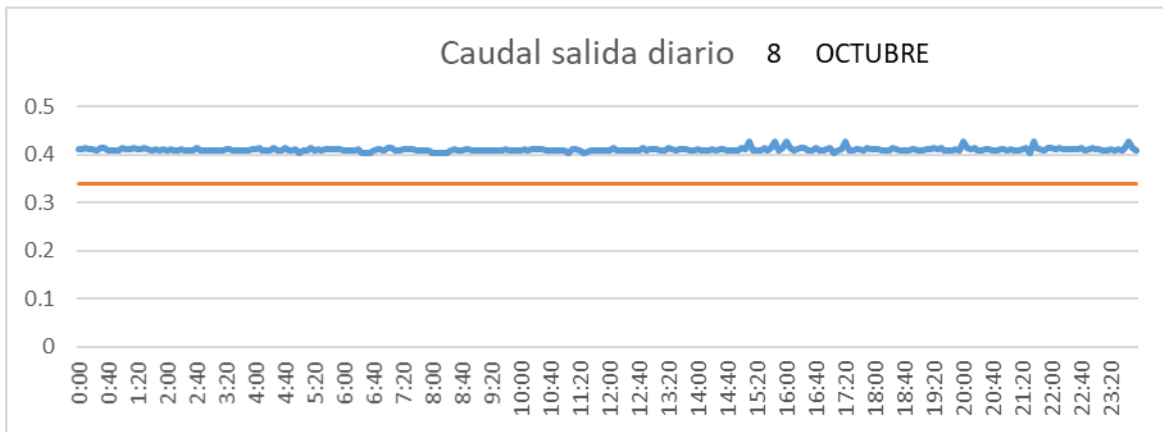
CUENCA



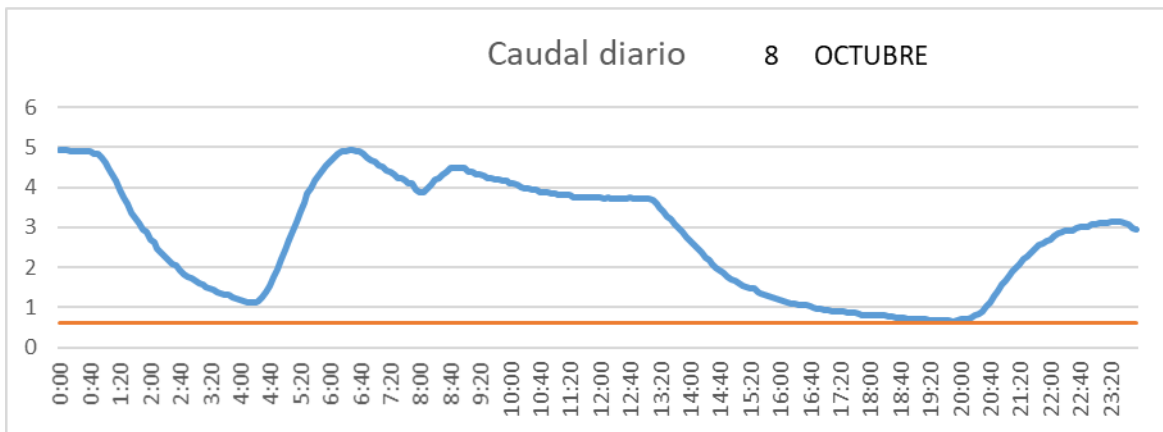
SAN LORENZO PARRILLA



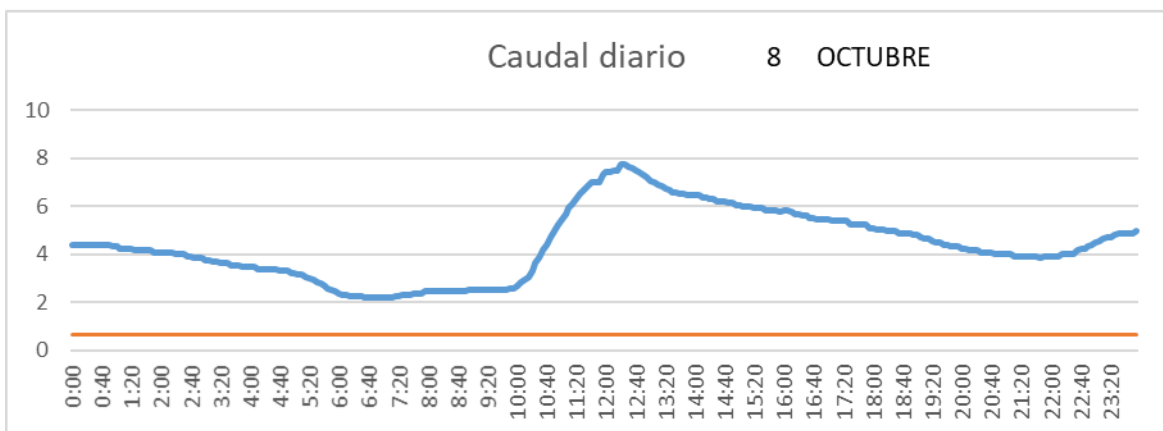
SALIDA TOBA



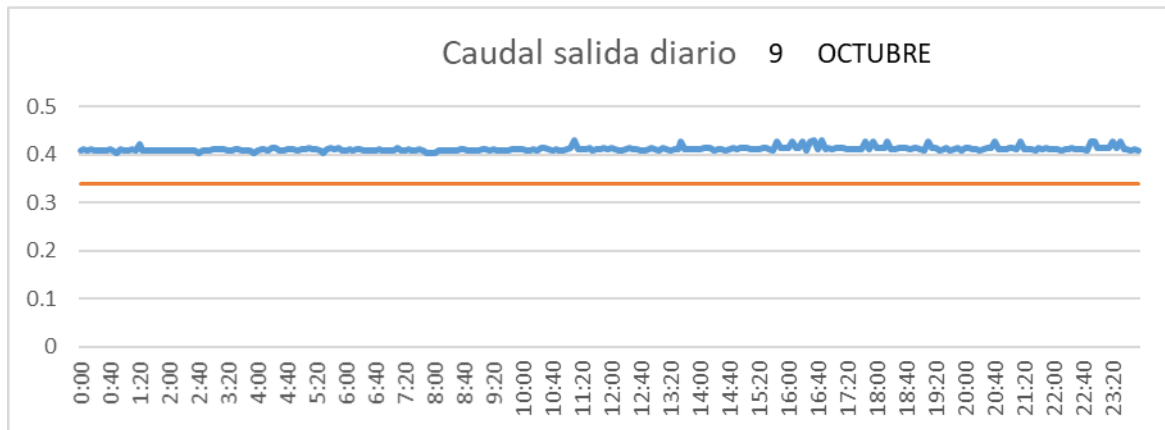
CUENCA



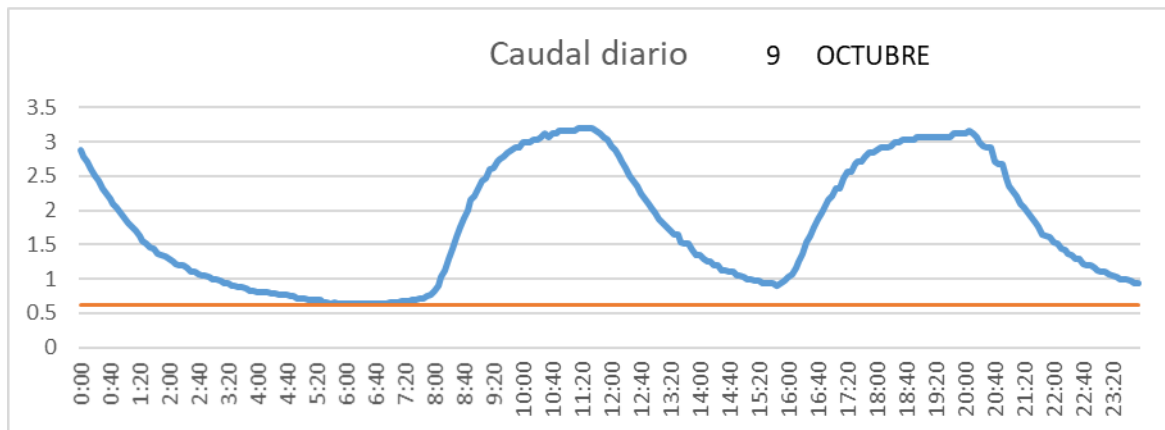
SAN LORENZO PARRILLA



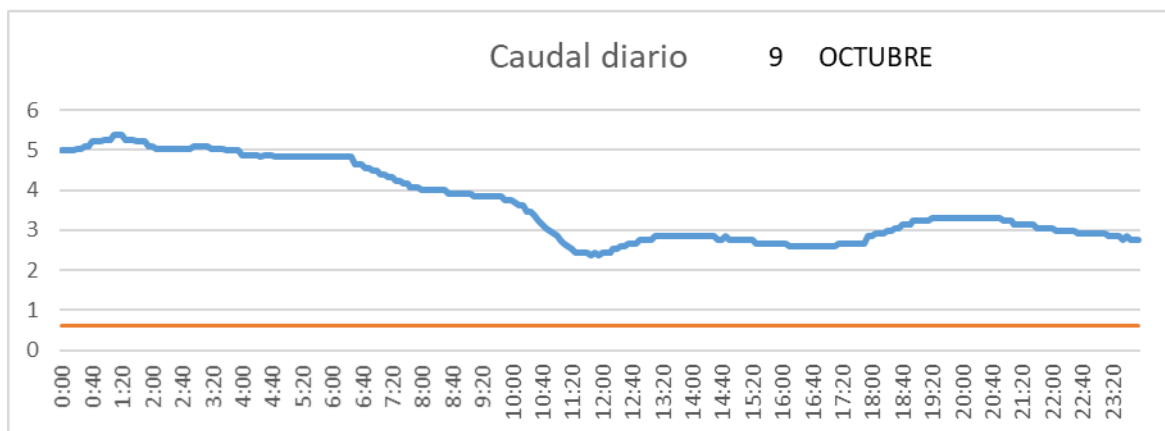
SALIDA TOBA



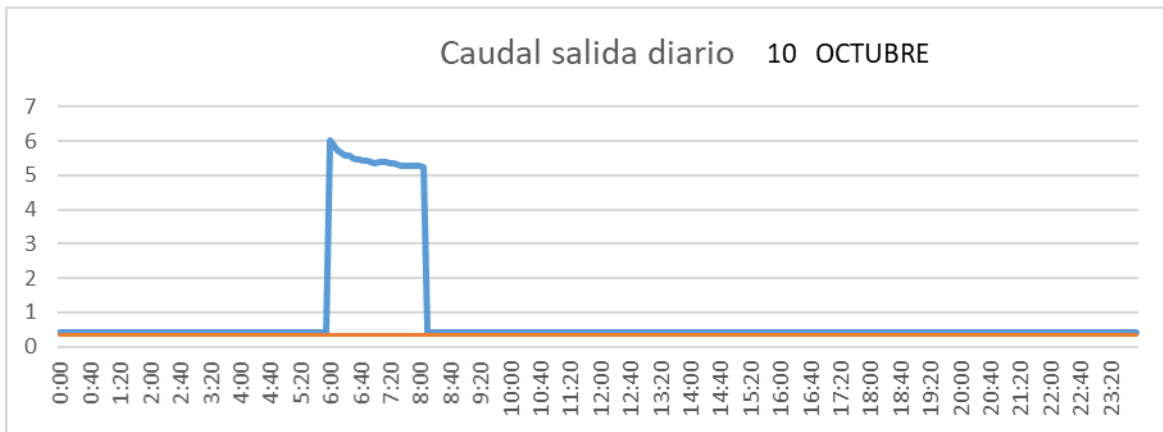
CUENCA



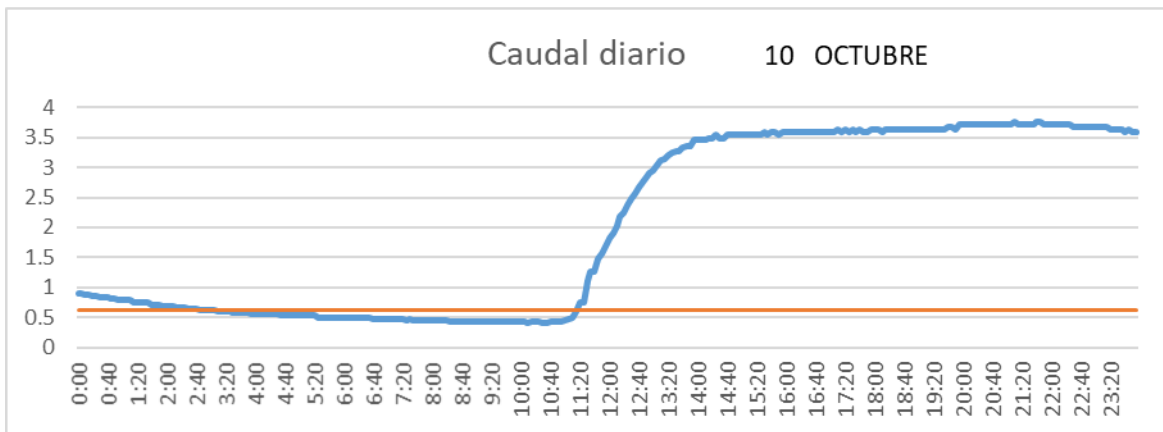
SAN LORENZO PARRILLA



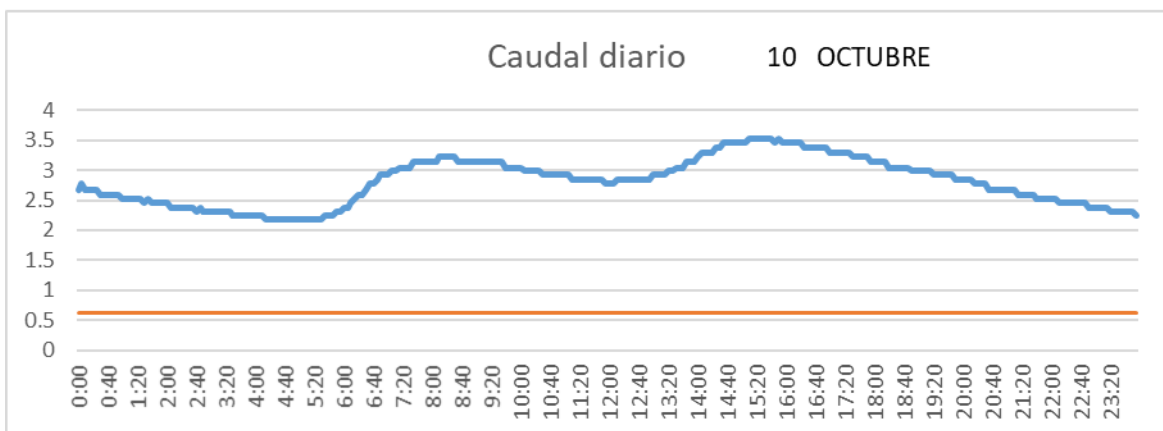
SALIDA TOBA



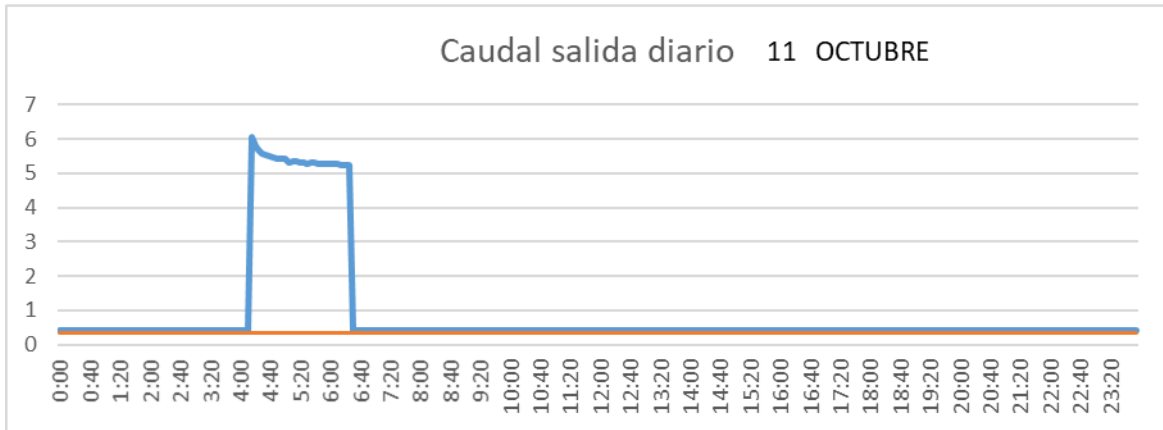
CUENCA



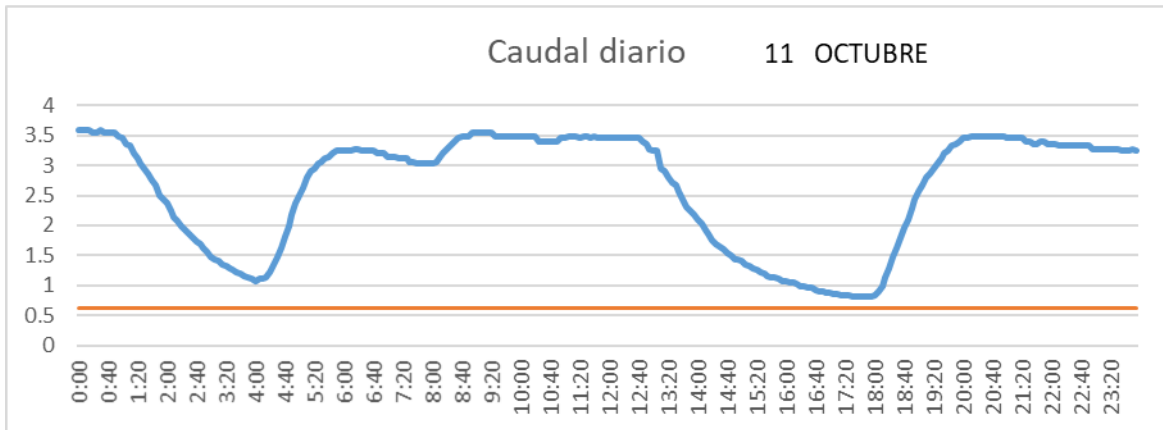
SAN LORENZO PARRILLA



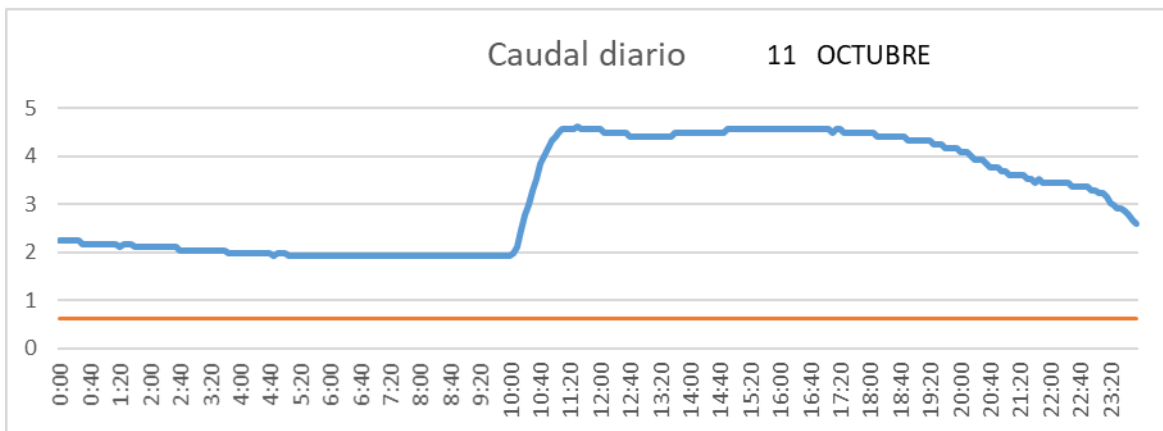
SALIDA TOBA



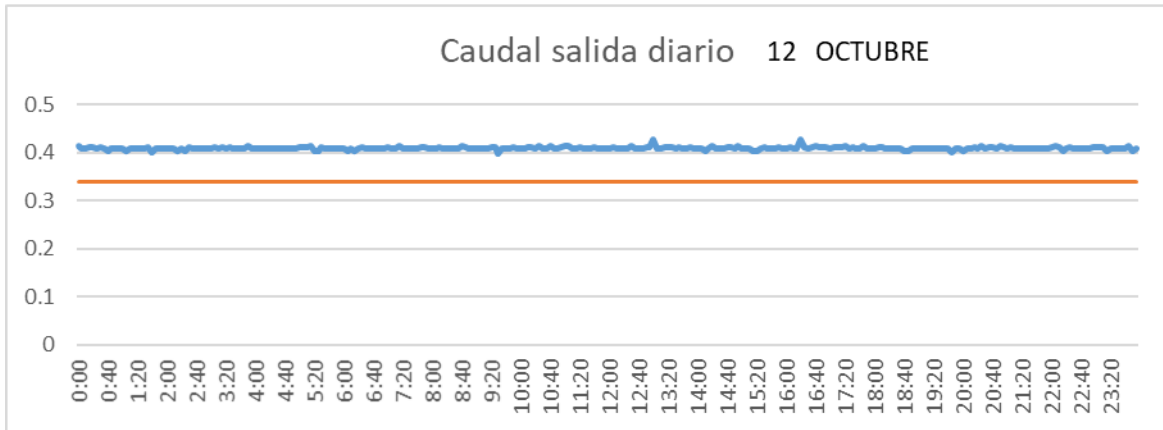
CUENCA



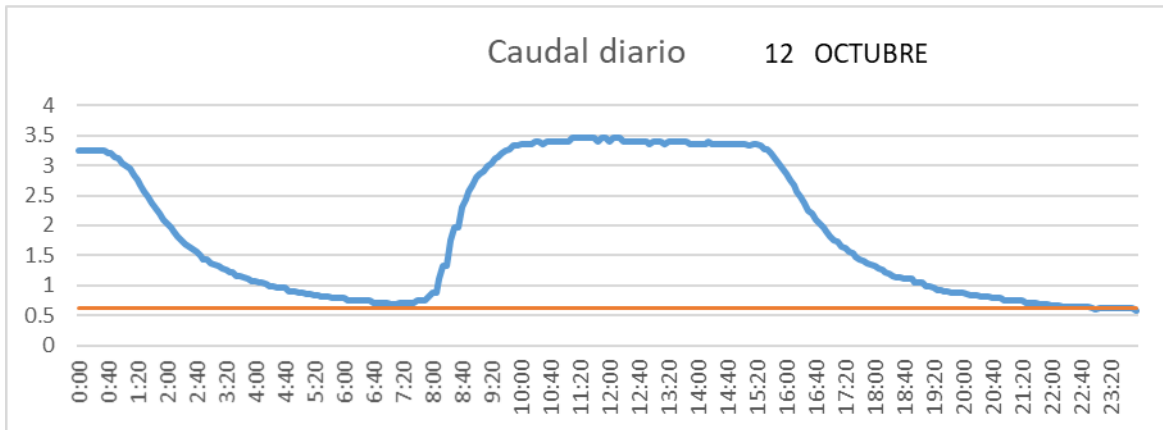
SAN LORENZO PARRILLA



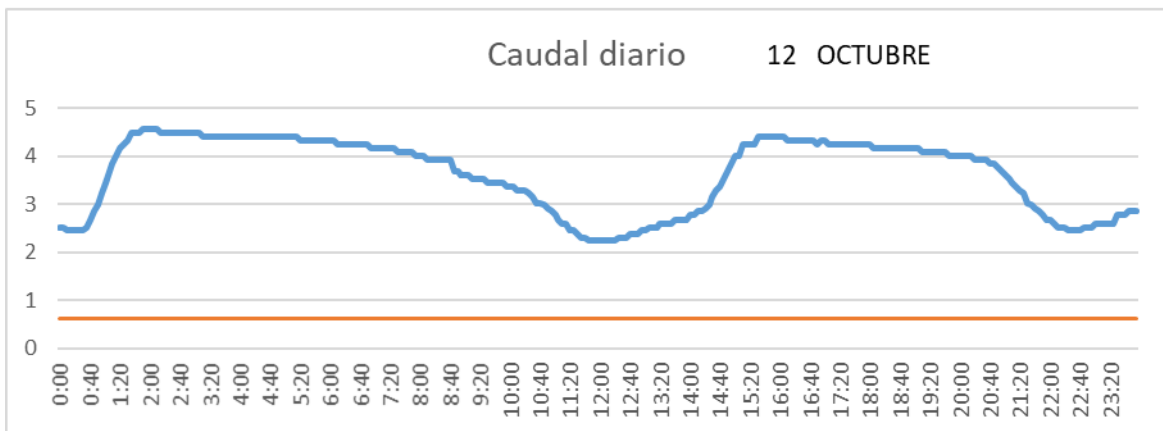
SALIDA TOBA



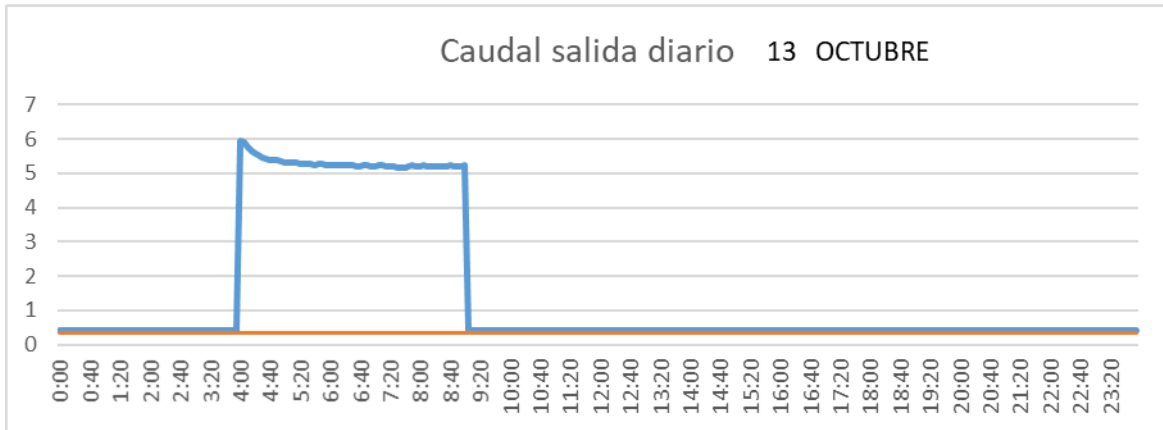
CUENCA



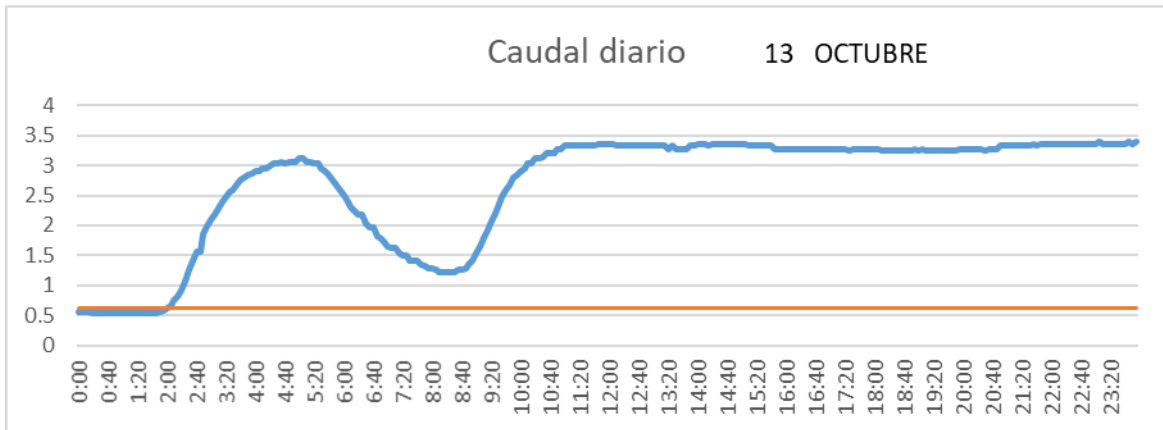
SAN LORENZO PARRILLA



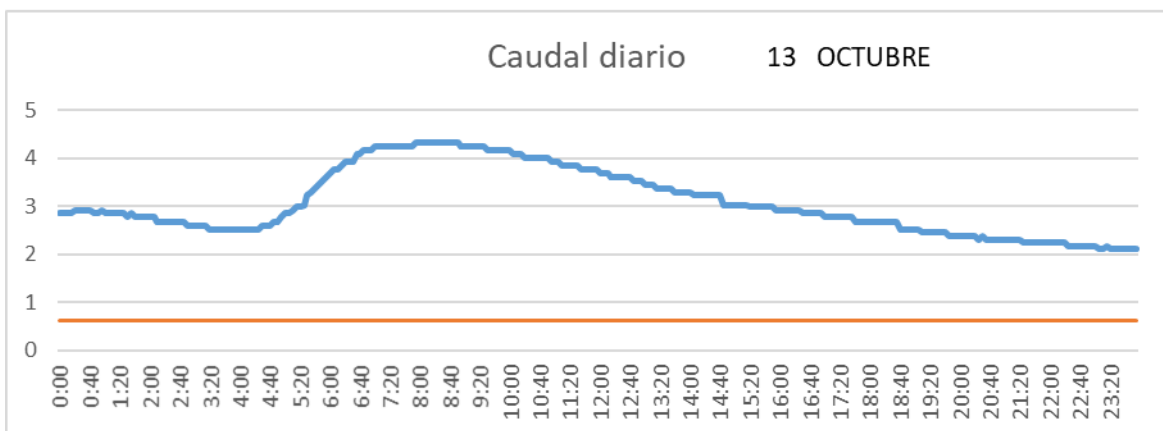
SALIDA TOBA



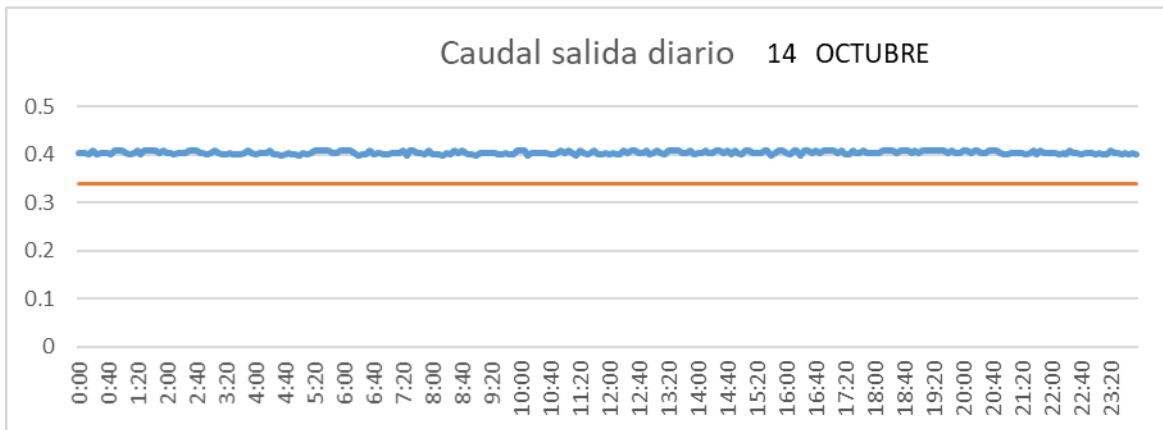
CUENCA



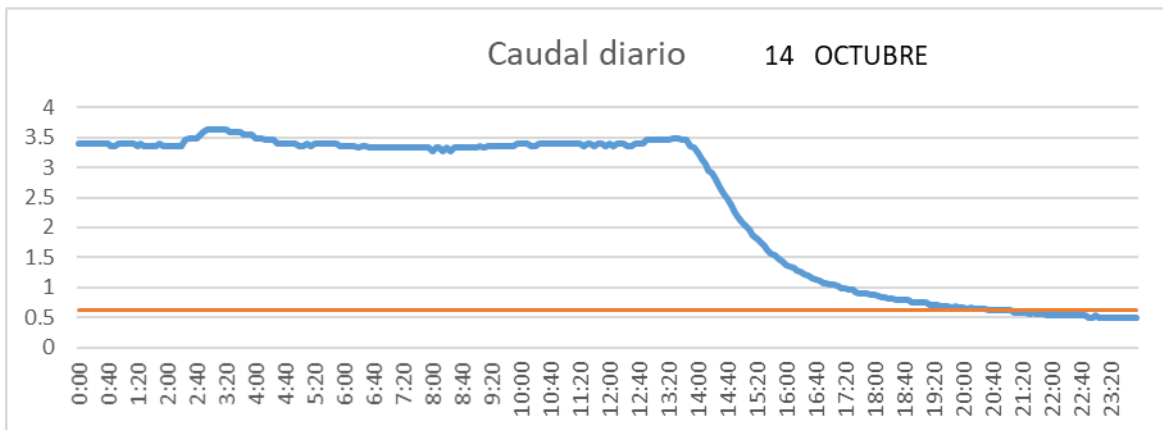
SAN LORENZO PARRILLA



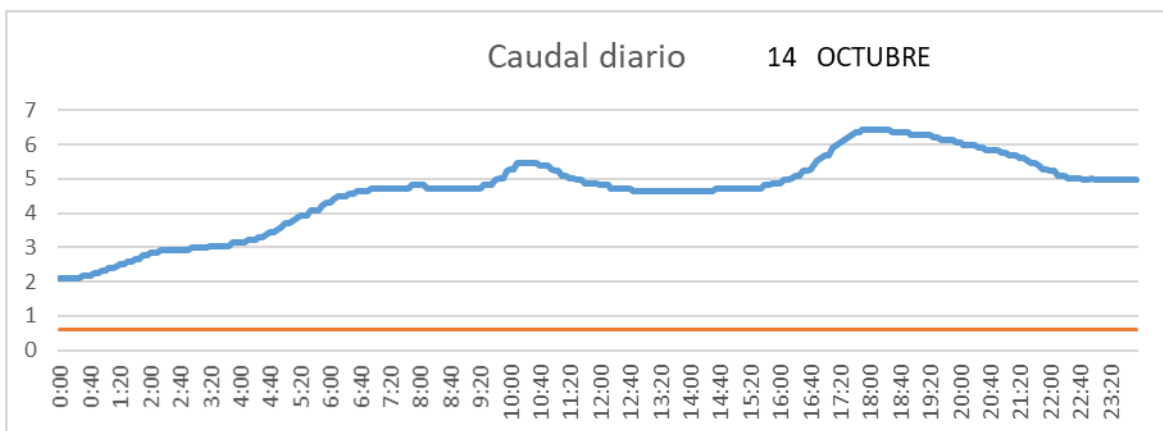
SALIDA TOBA



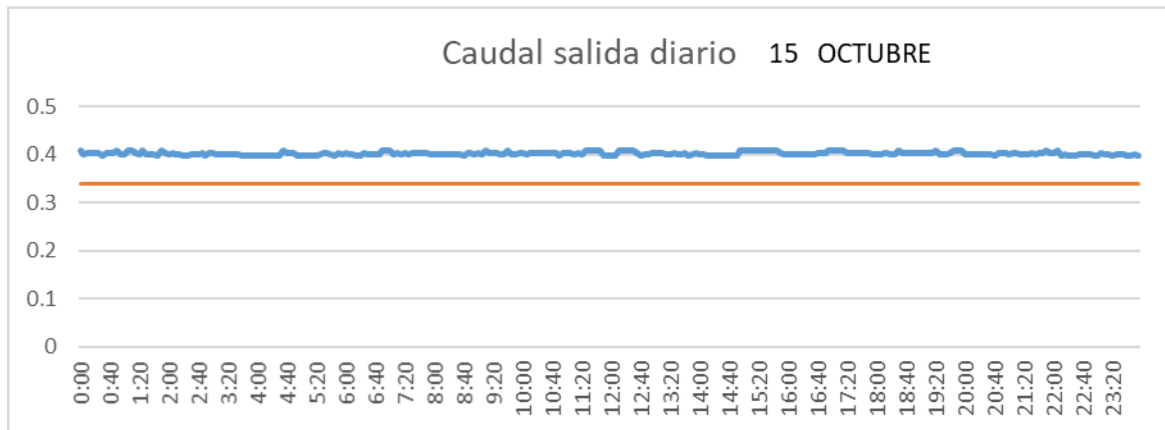
CUENCA



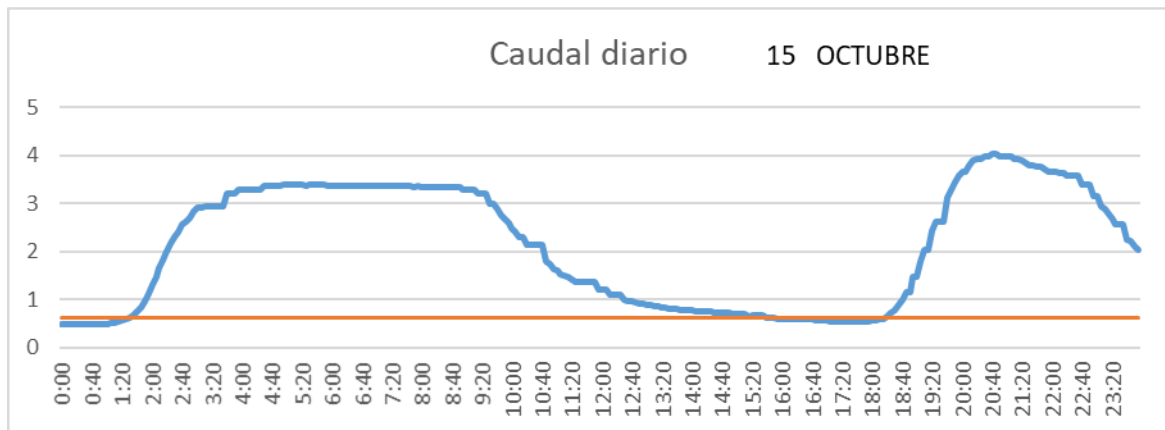
SAN LORENZO PARRILLA



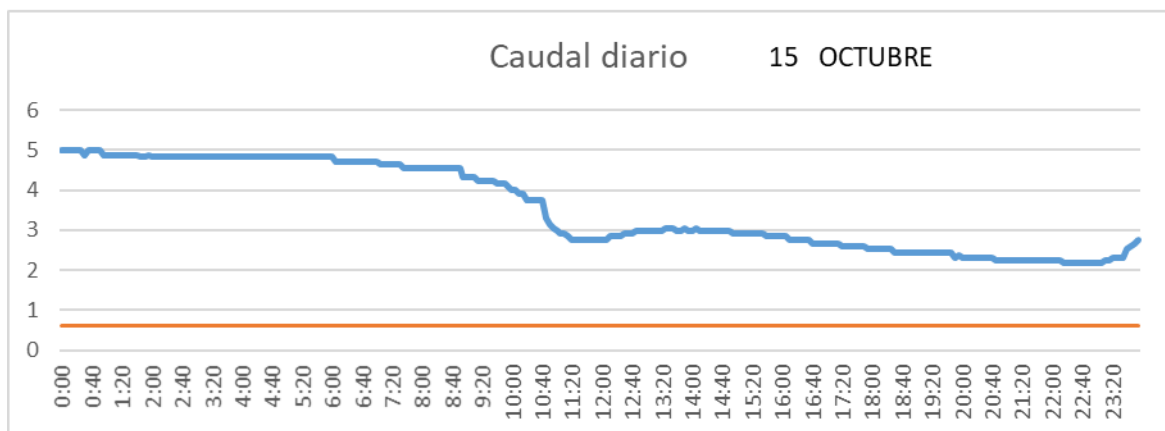
SALIDA TOBA



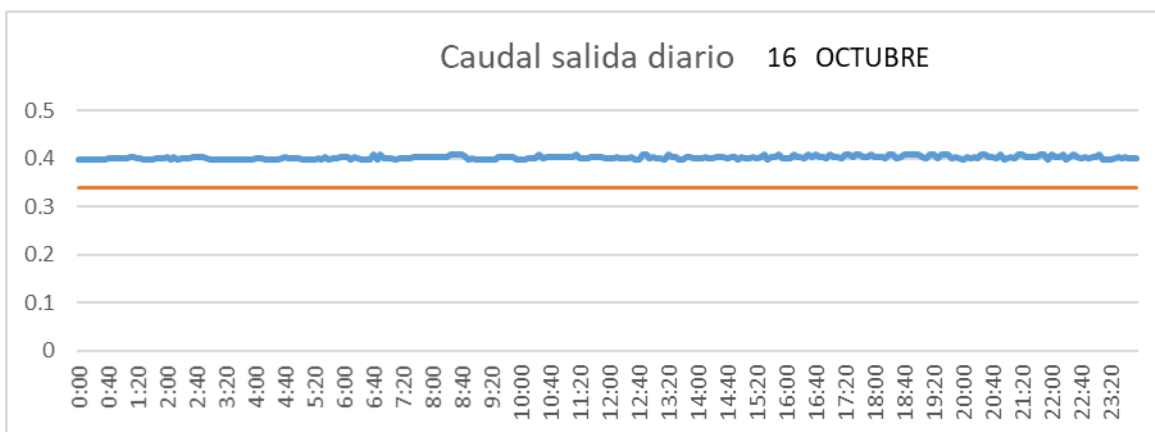
CUENCA



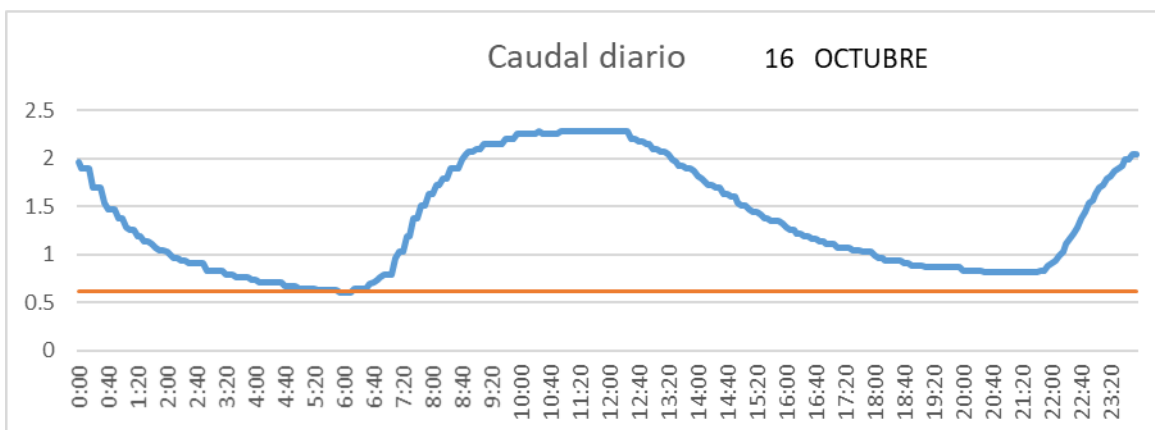
SAN LORENZO PARRILLA



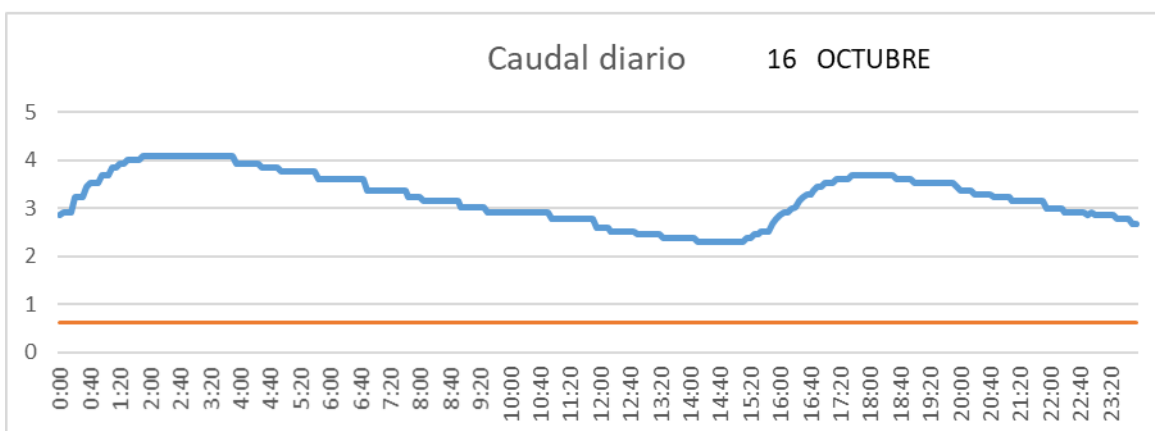
SALIDA TOBA



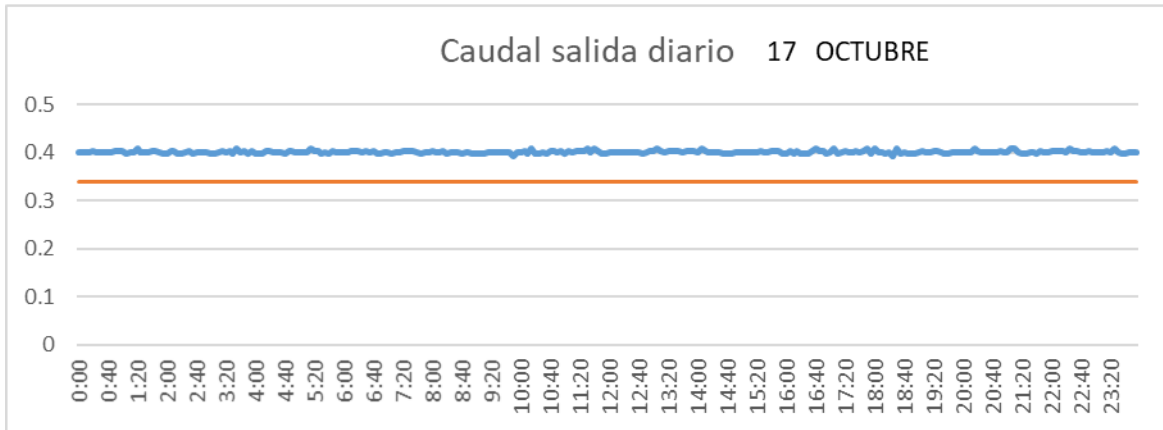
CUENCA



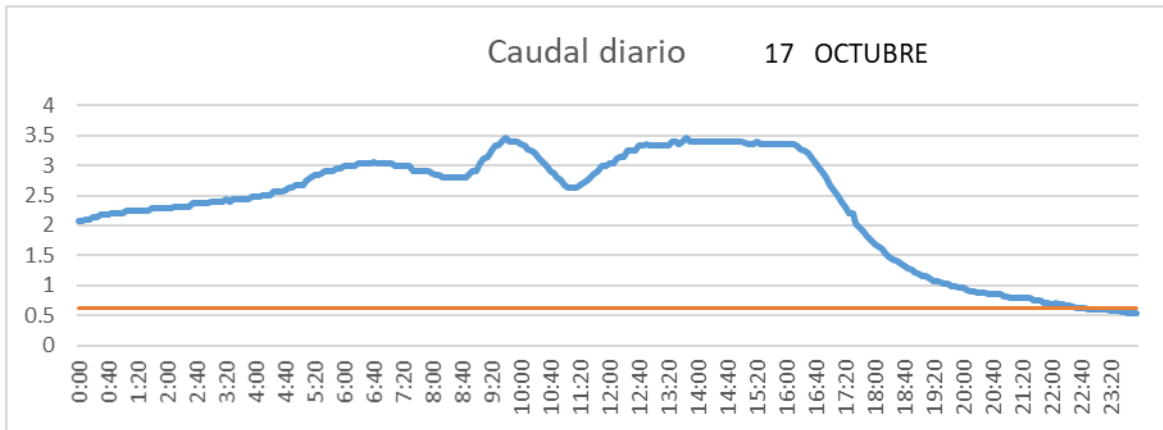
SAN LORENZO PARRILLA



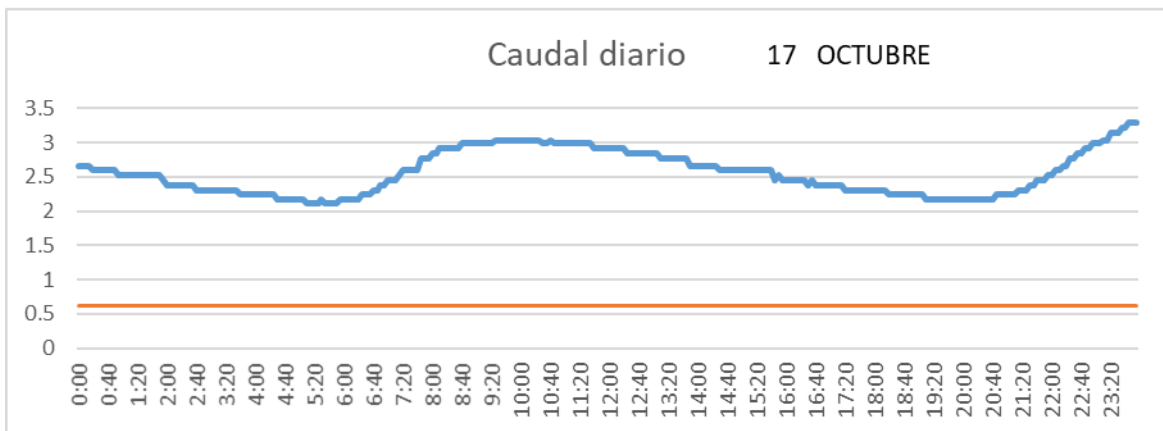
SALIDA TOBA



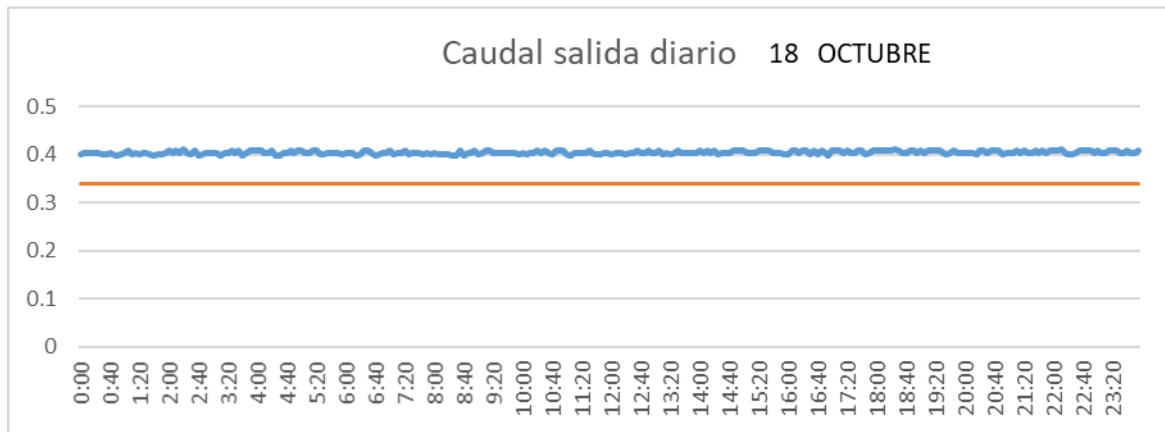
CUENCA



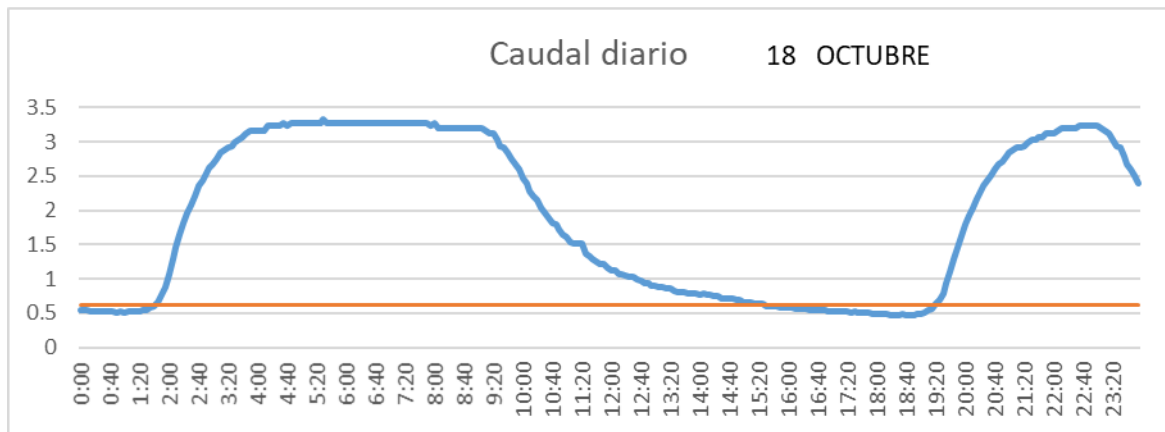
SAN LORENZO PARRILLA



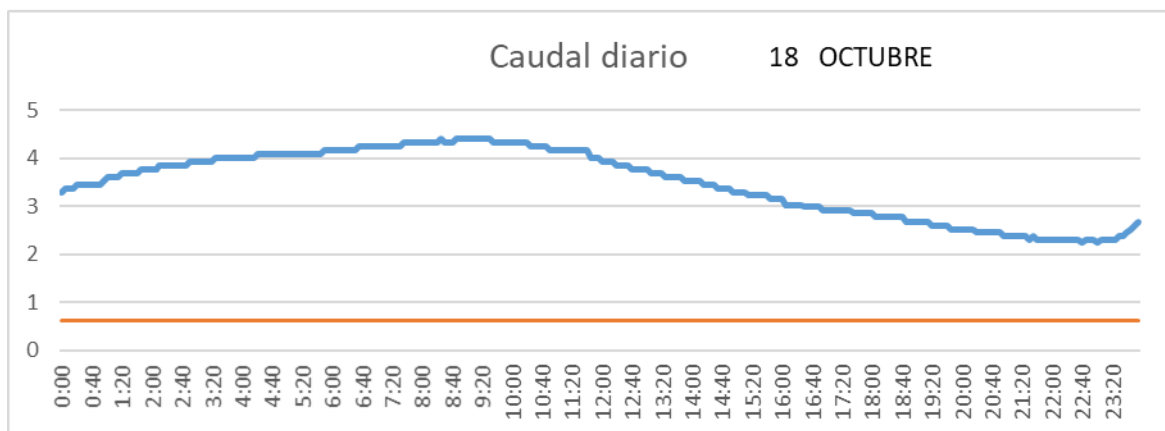
SALIDA TOBA



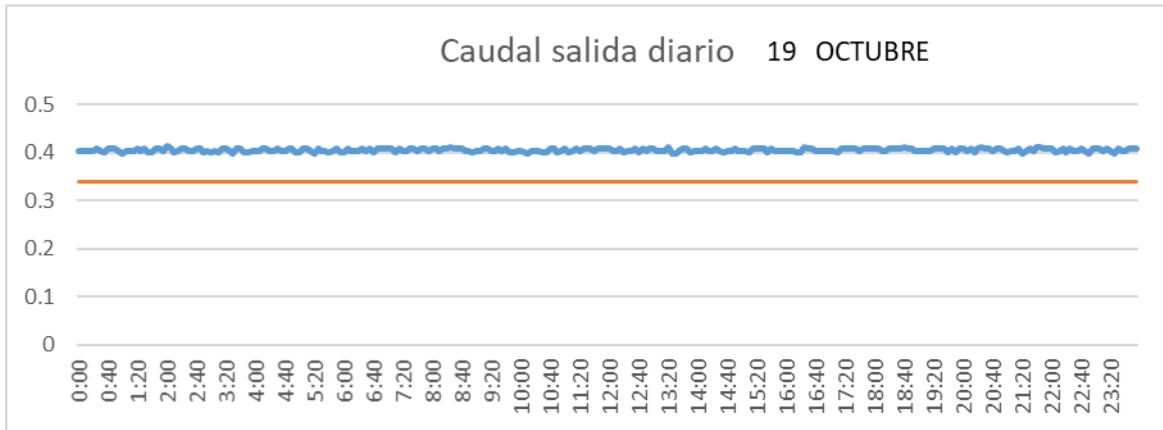
CUENCA



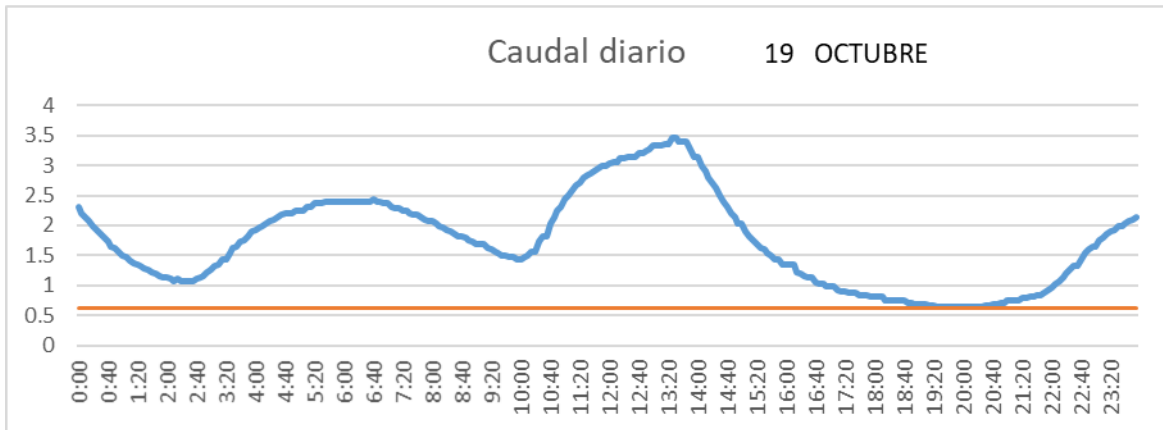
SAN LORENZO PARRILLA



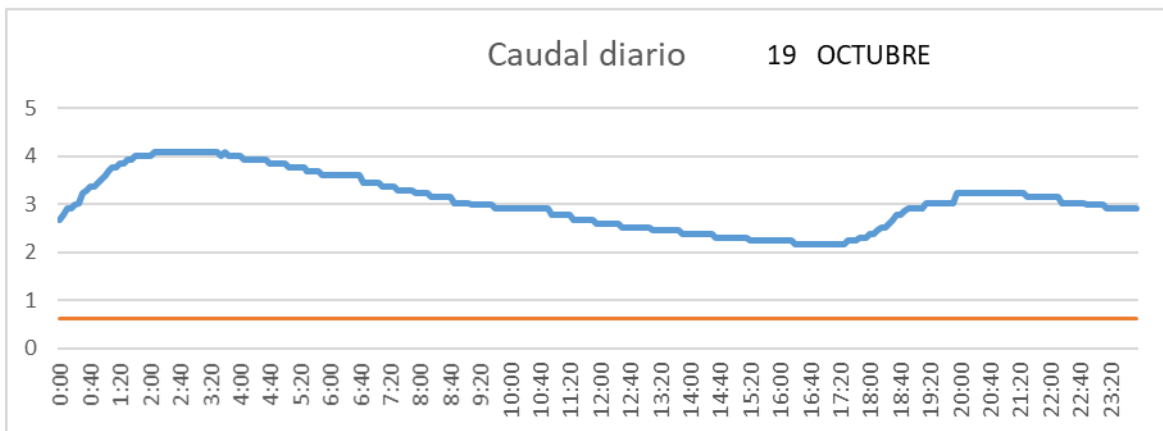
SALIDA TOBA



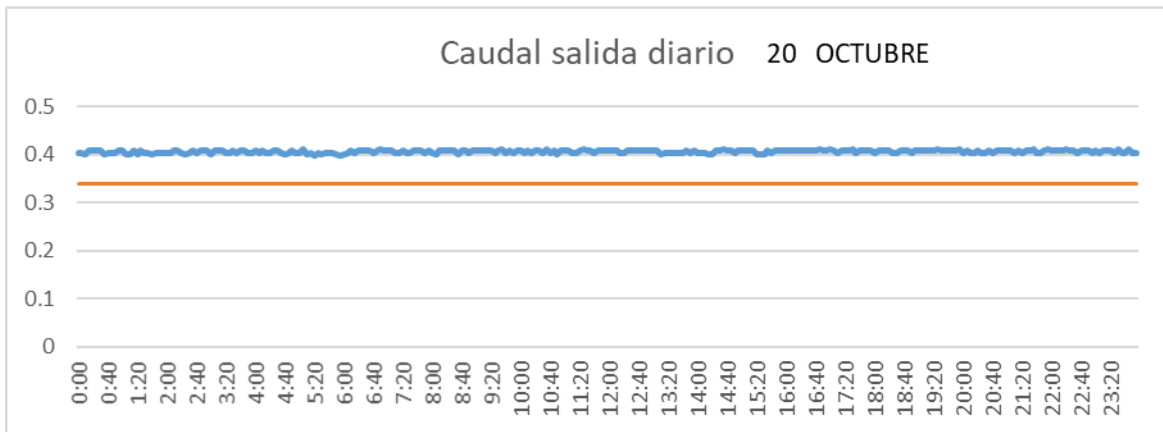
CUENCA



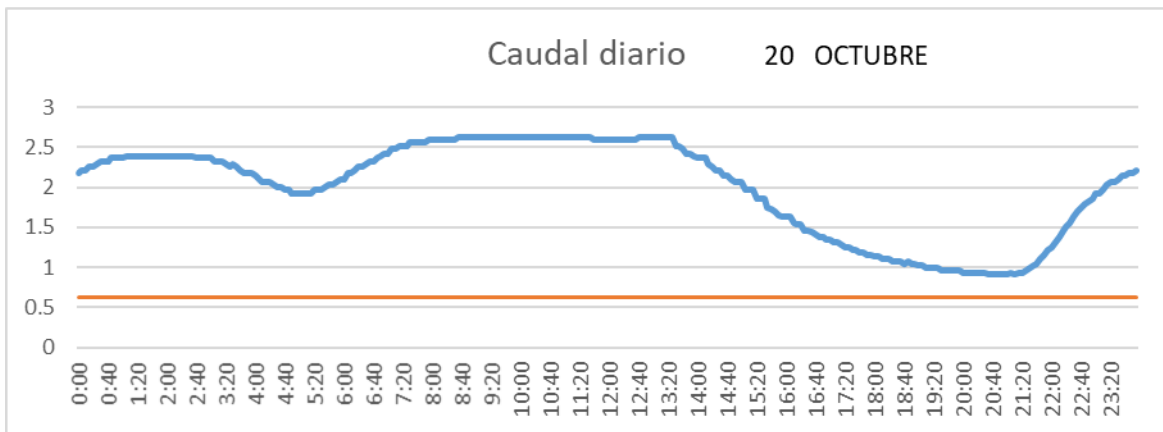
SAN LORENZO PARRILLA



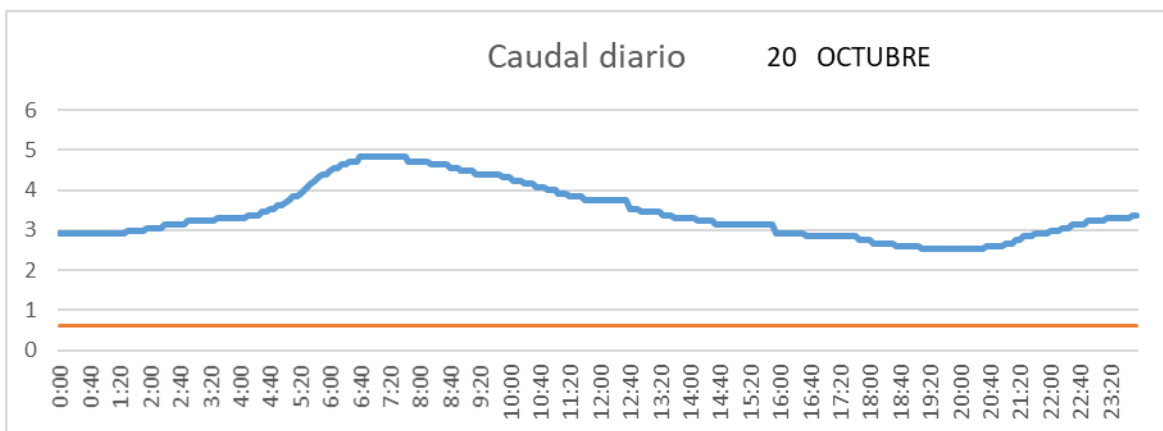
SALIDA TOBA



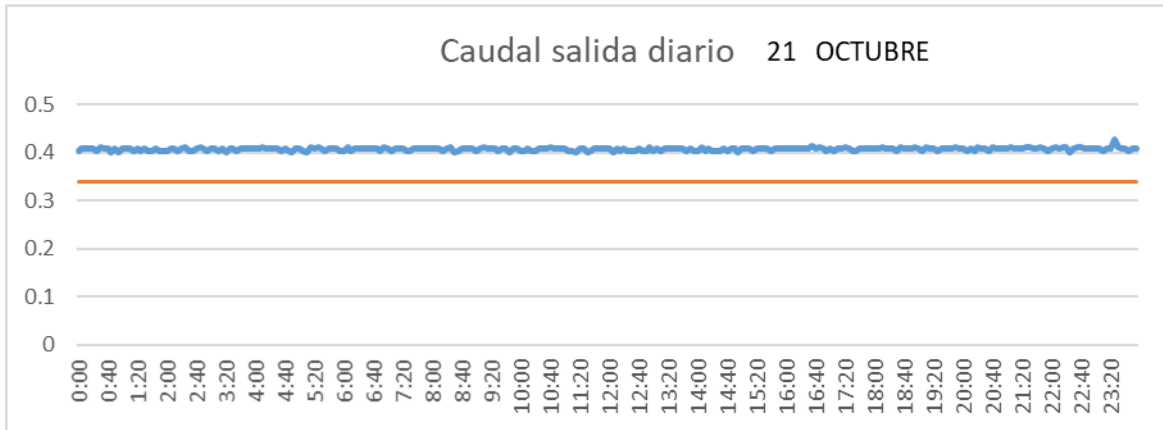
CUENCA



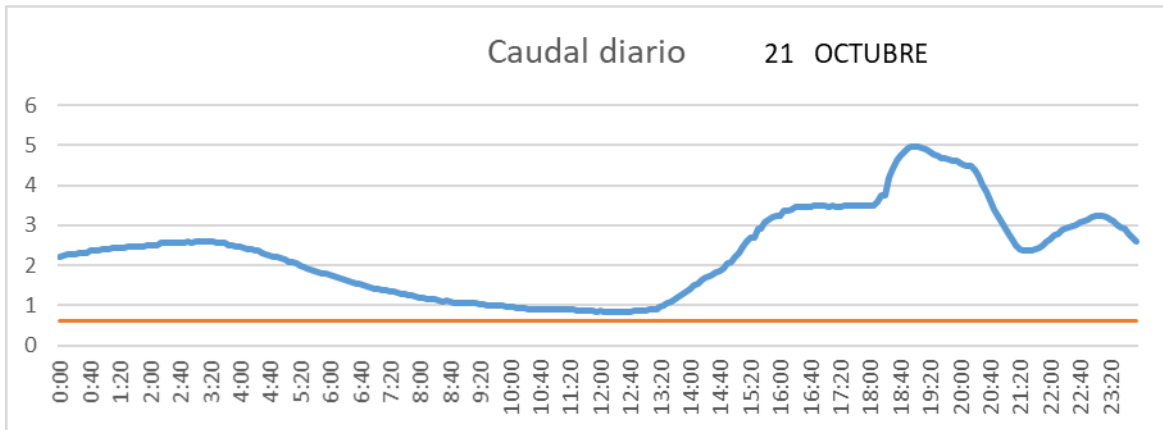
SAN LORENZO PARRILLA



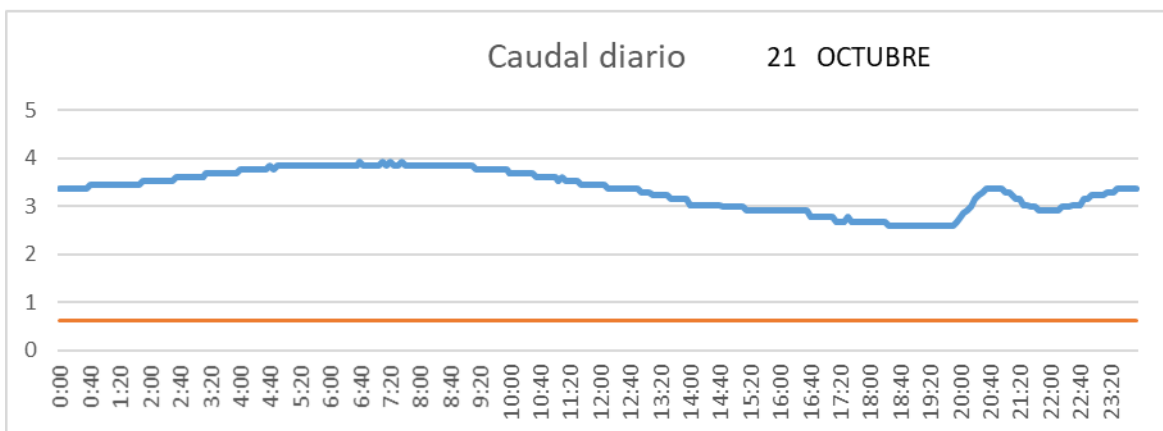
SALIDA TOBA



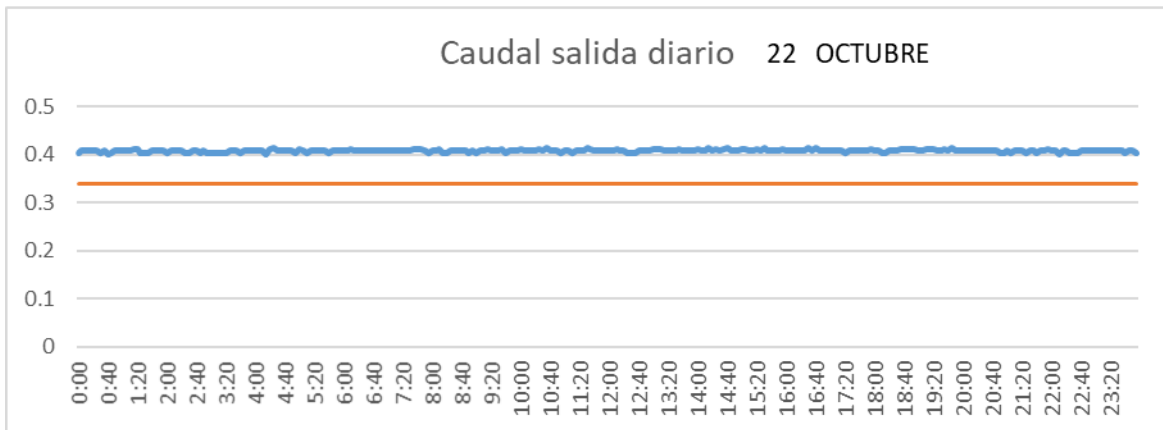
CUENCA



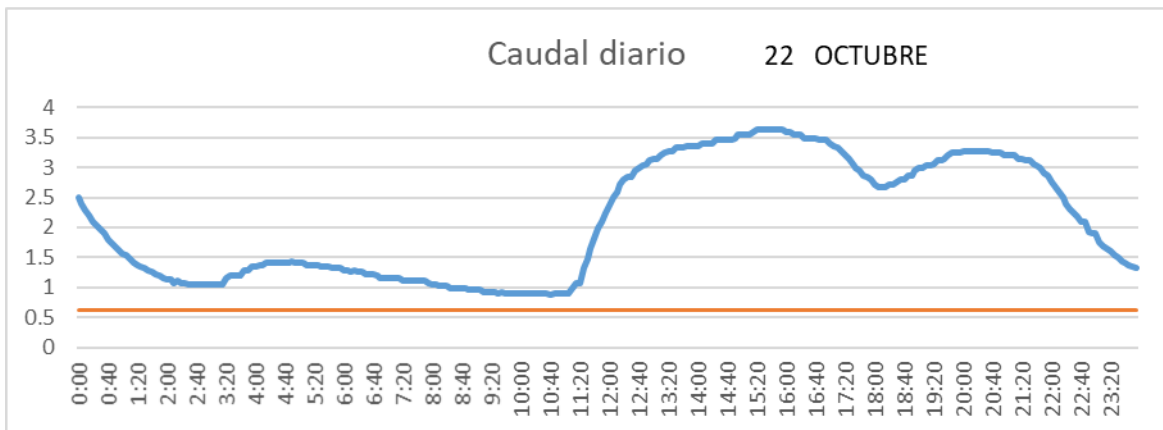
SAN LORENZO PARRILLA



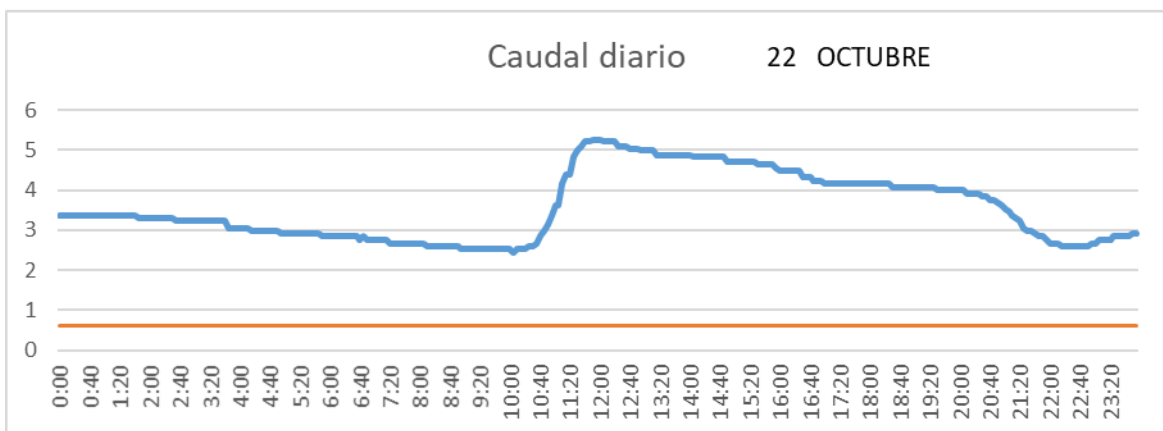
SALIDA TOBA



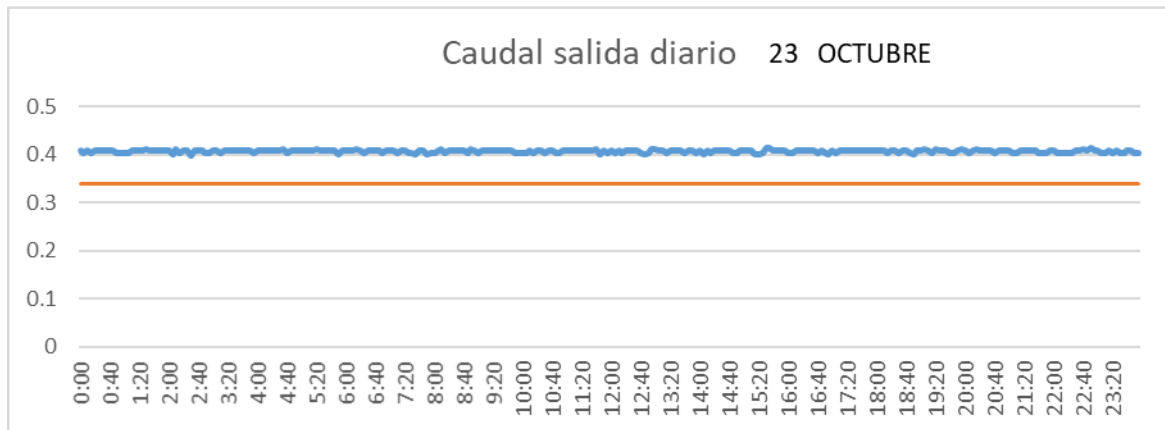
CUENCA



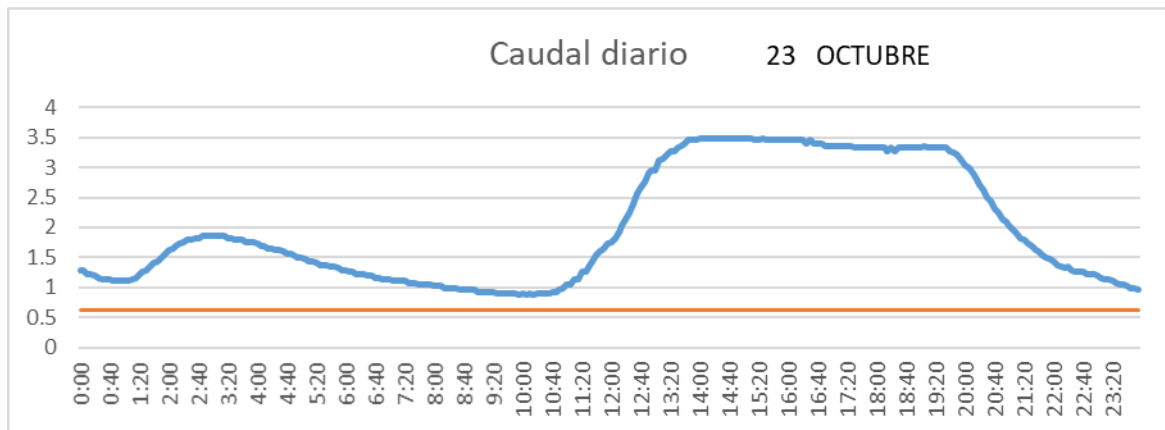
SAN LORENZO PARRILLA



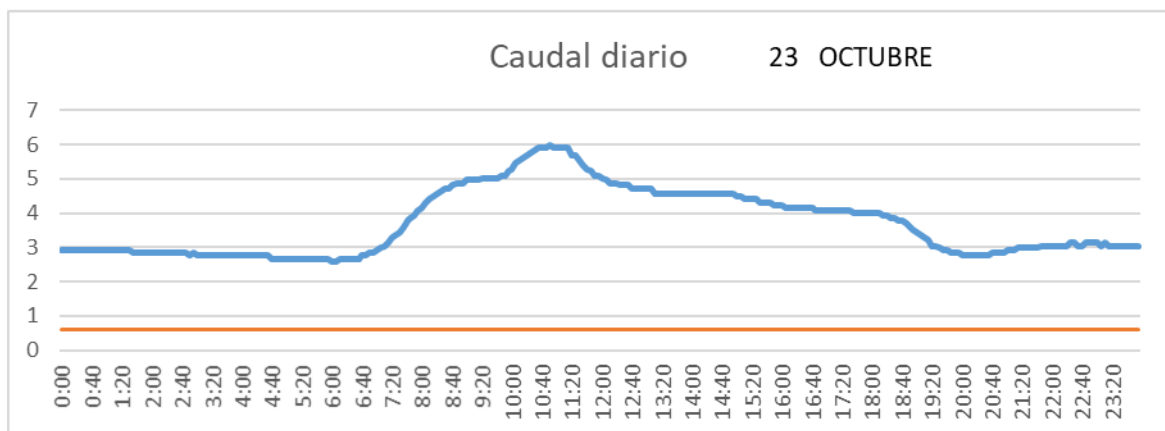
SALIDA TOBA



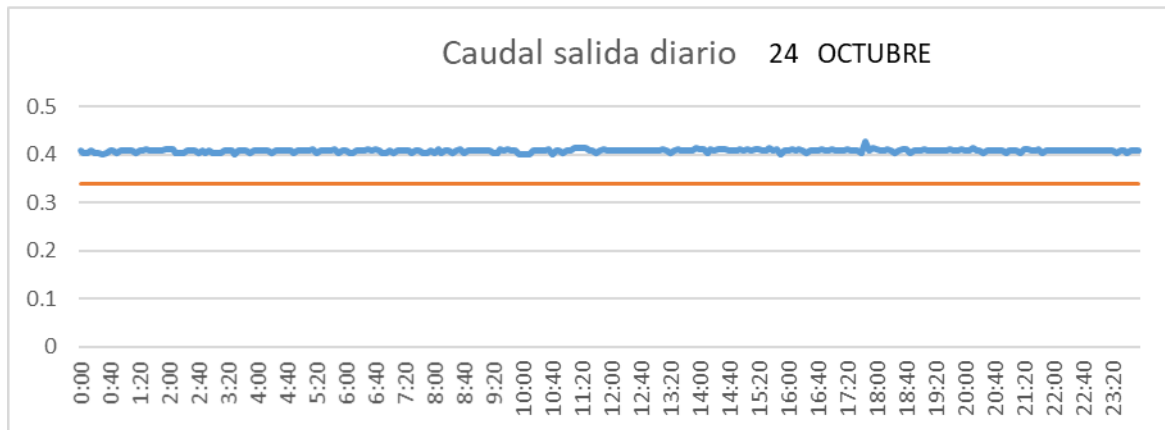
CUENCA



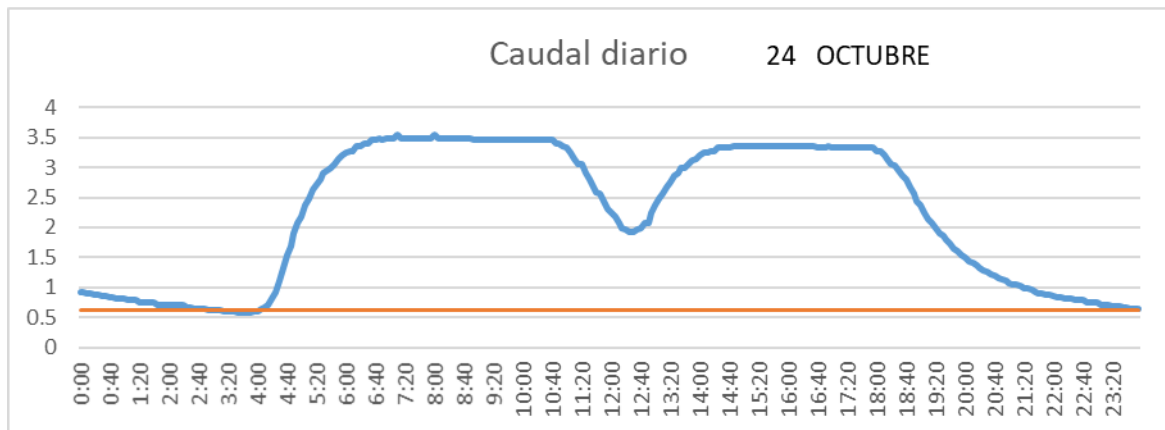
SAN LORENZO PARRILLA



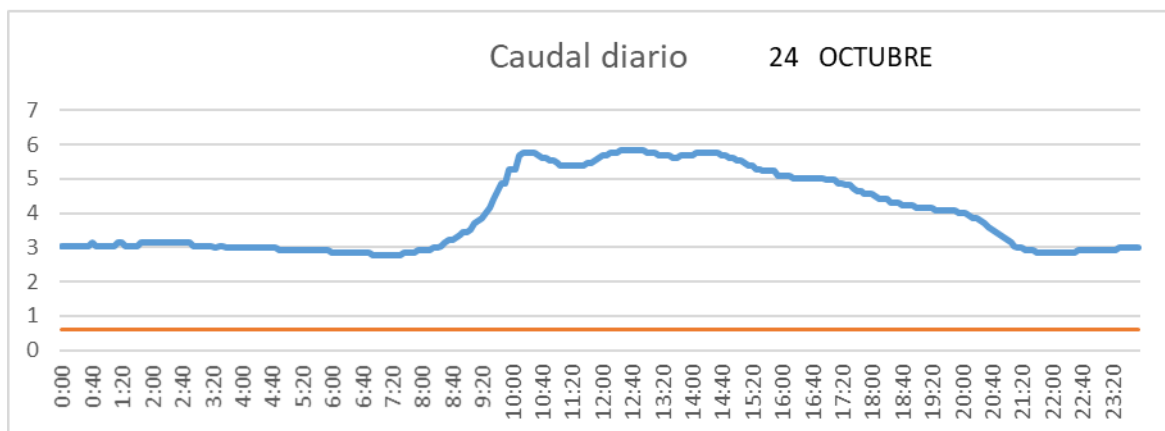
SALIDA TOBA



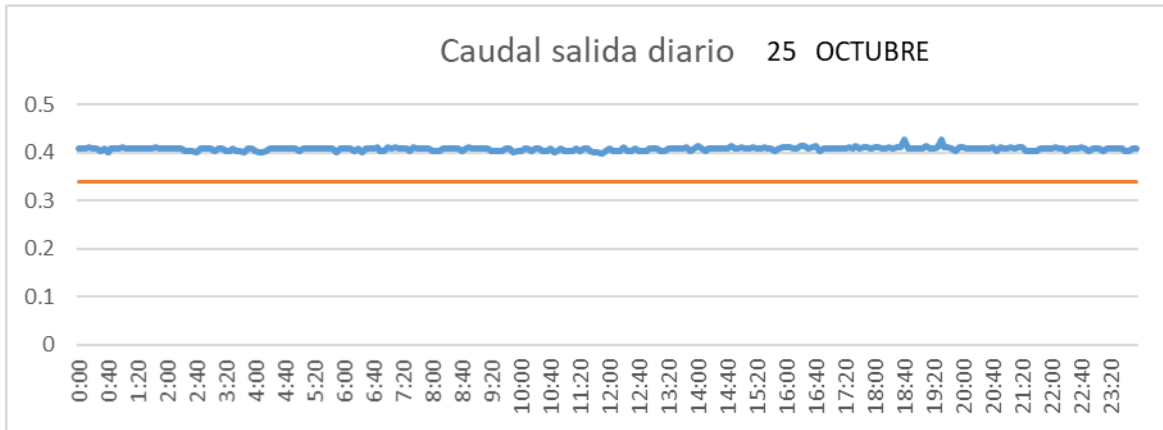
CUENCA



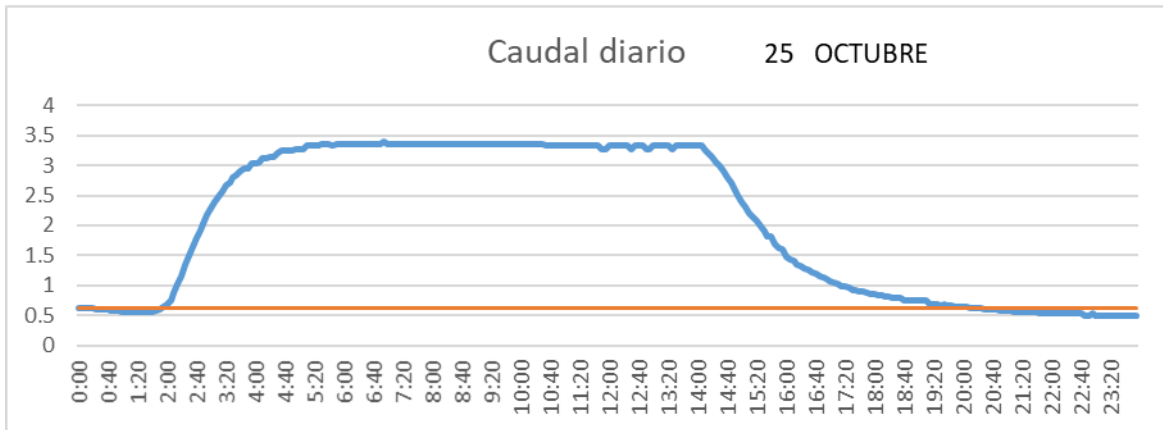
SAN LORENZO PARRILLA



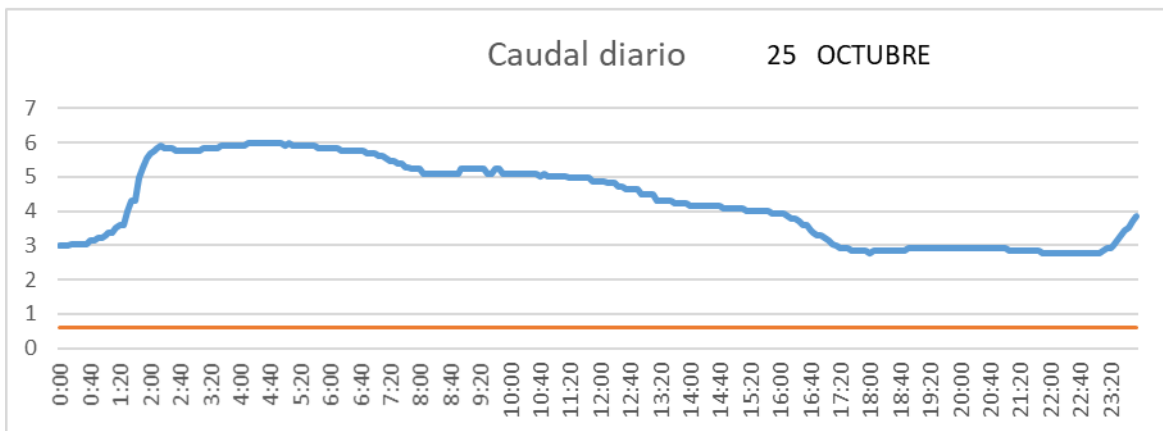
SALIDA TOBA



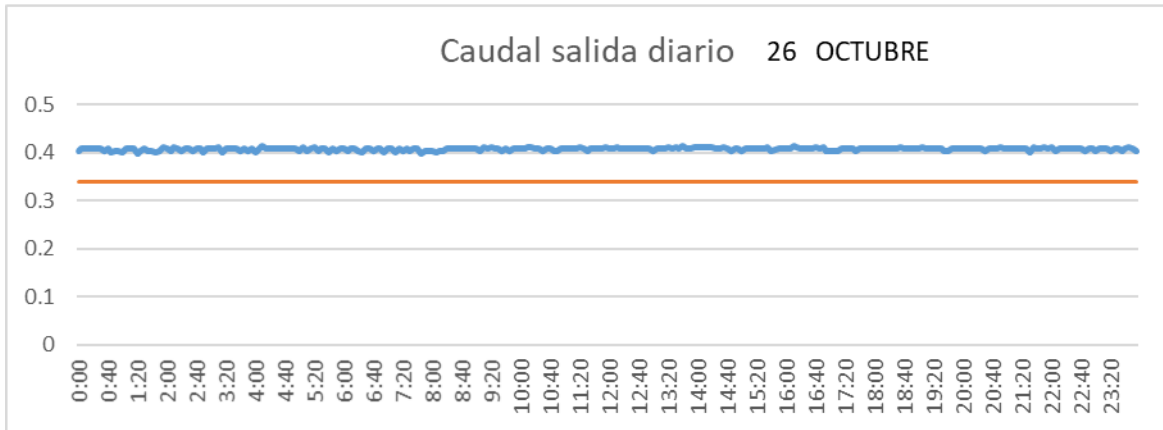
CUENCA



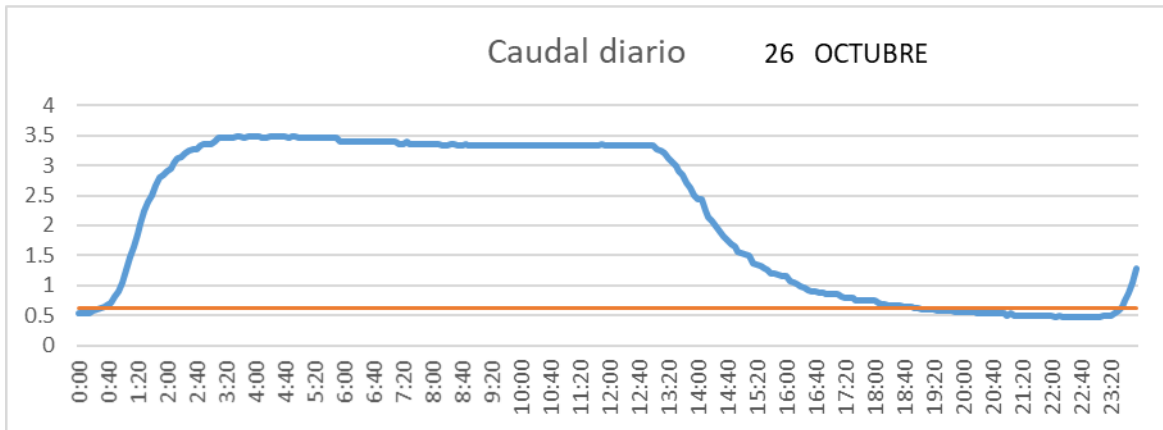
SAN LORENZO PARRILLA



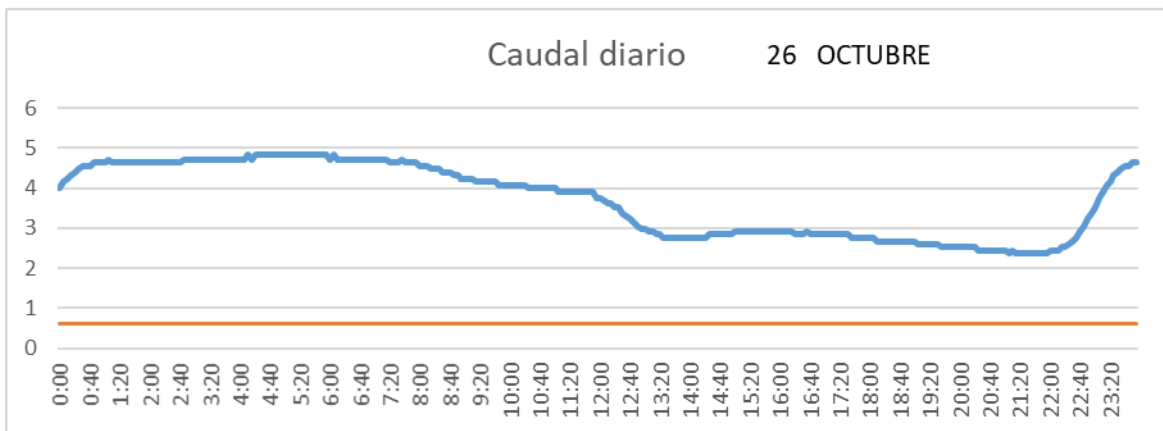
SALIDA TOBA



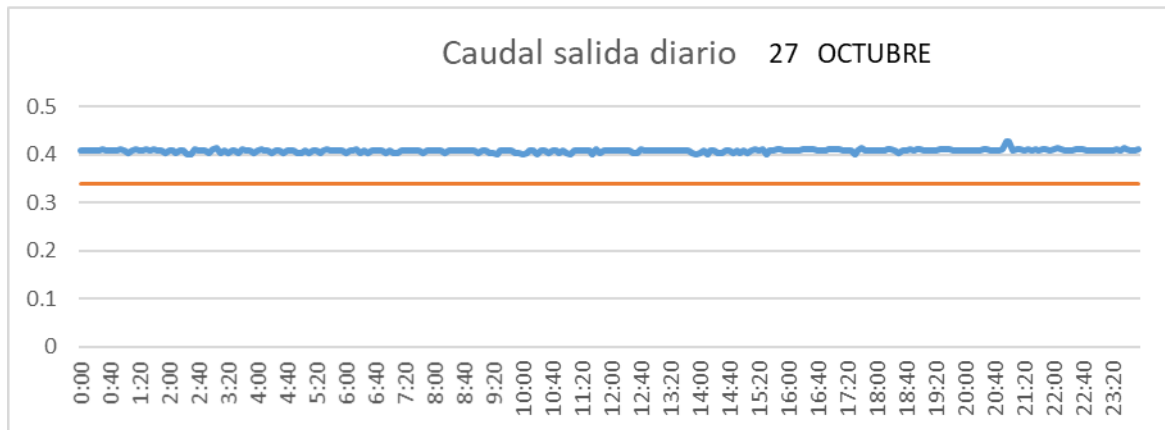
CUENCA



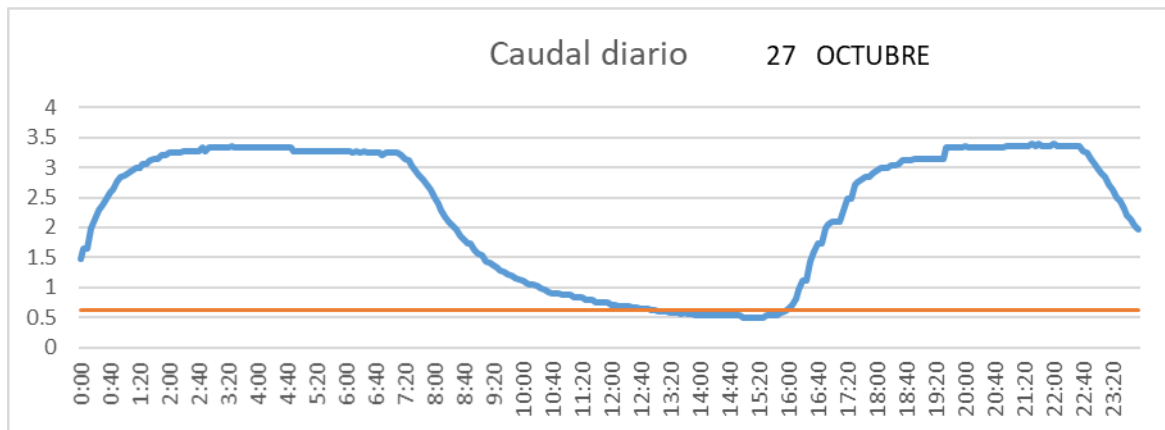
SAN LORENZO PARRILLA



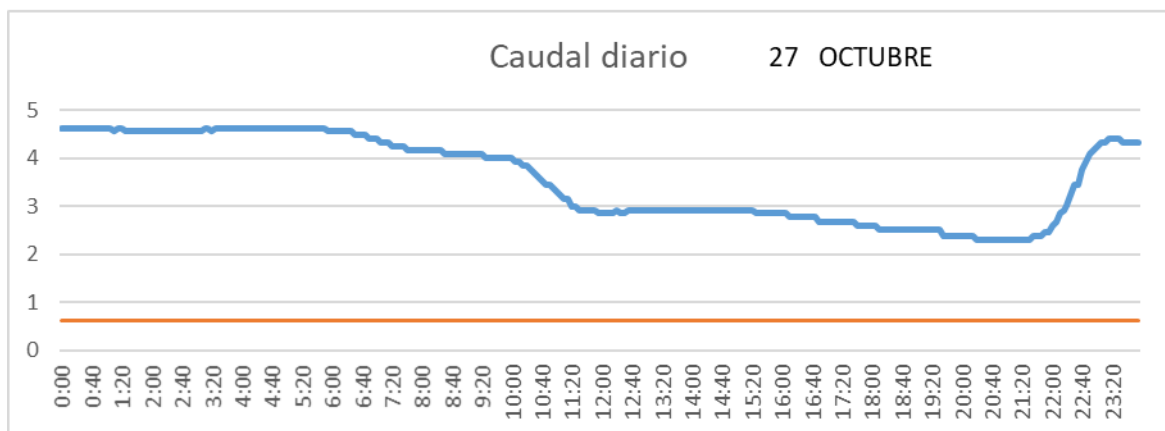
SALIDA TOBA



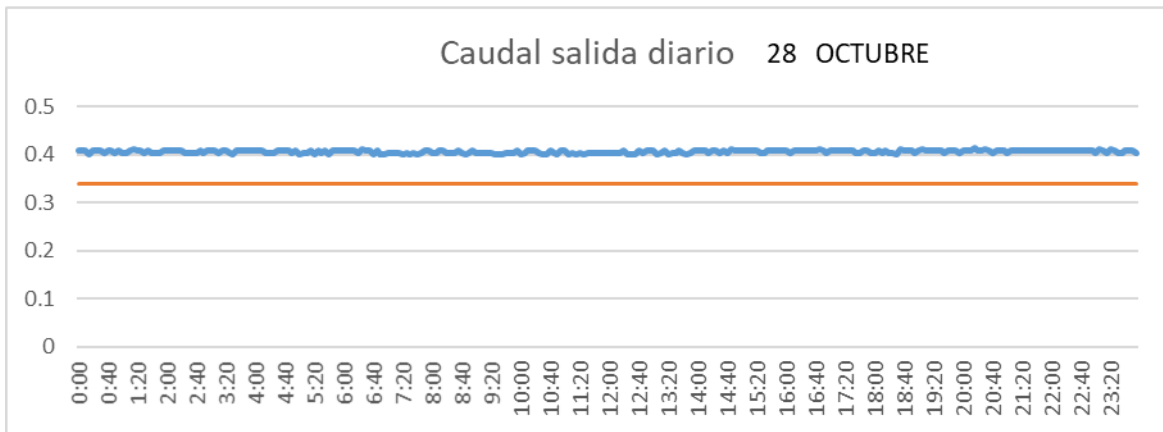
CUENCA



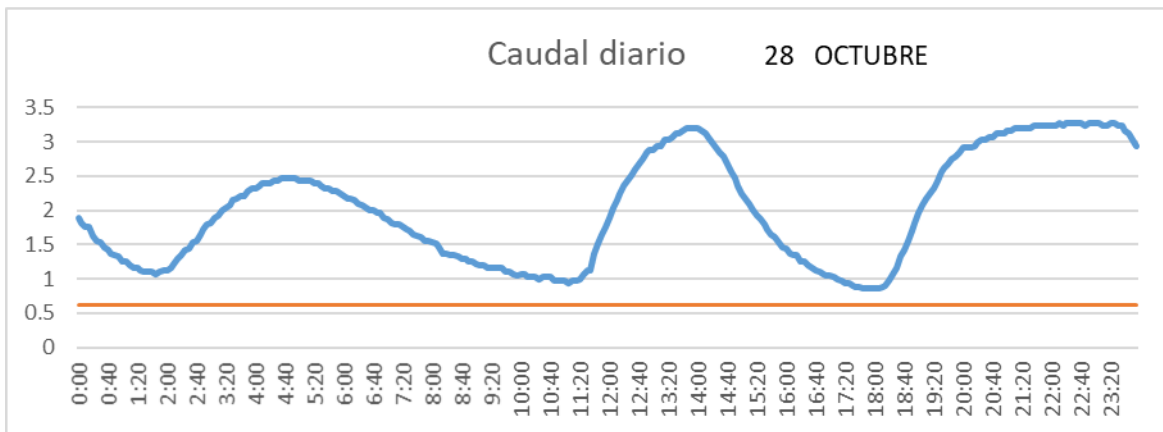
SAN LORENZO PARRILLA



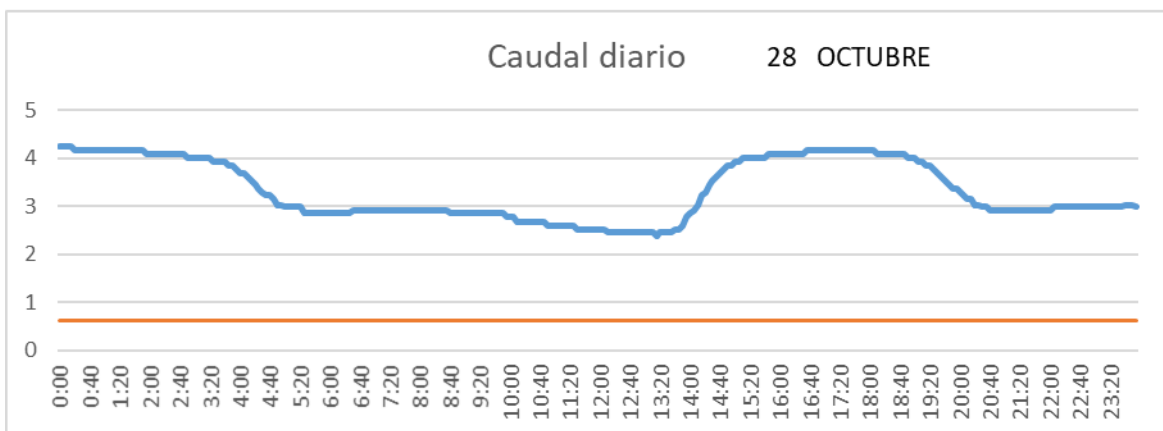
SALIDA TOBA



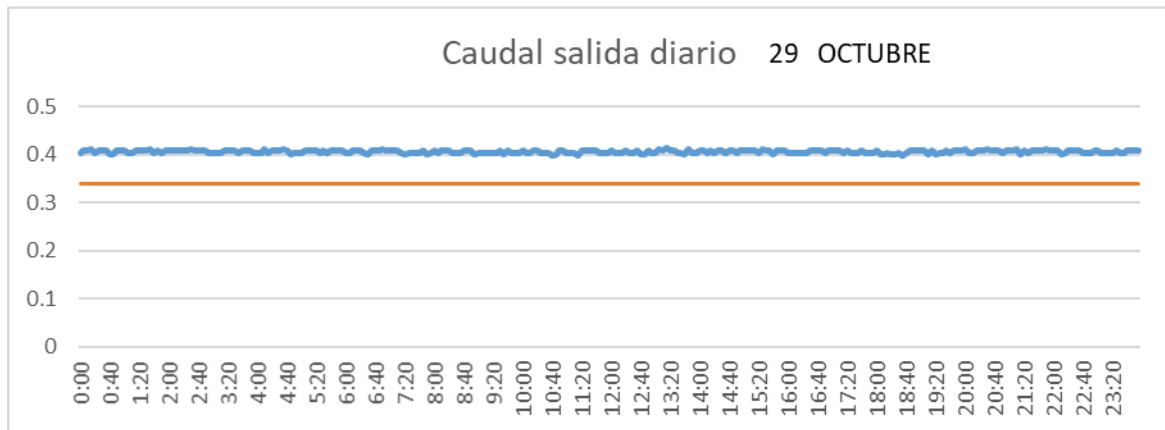
CUENCA



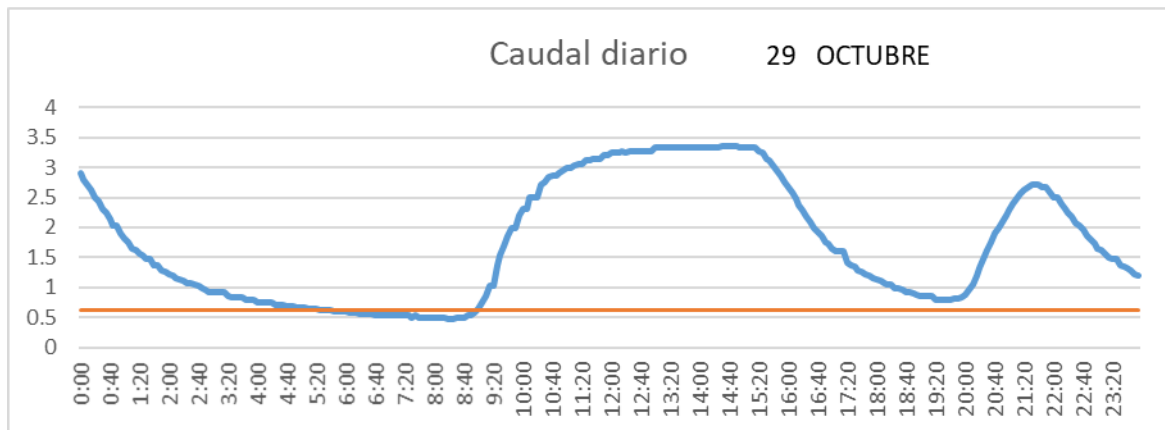
SAN LORENZO PARRILLA



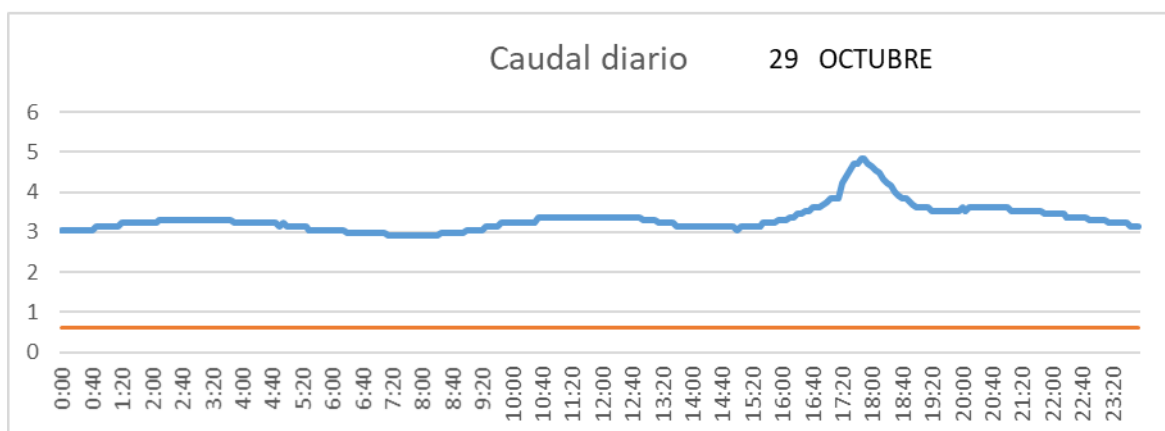
SALIDA TOBA



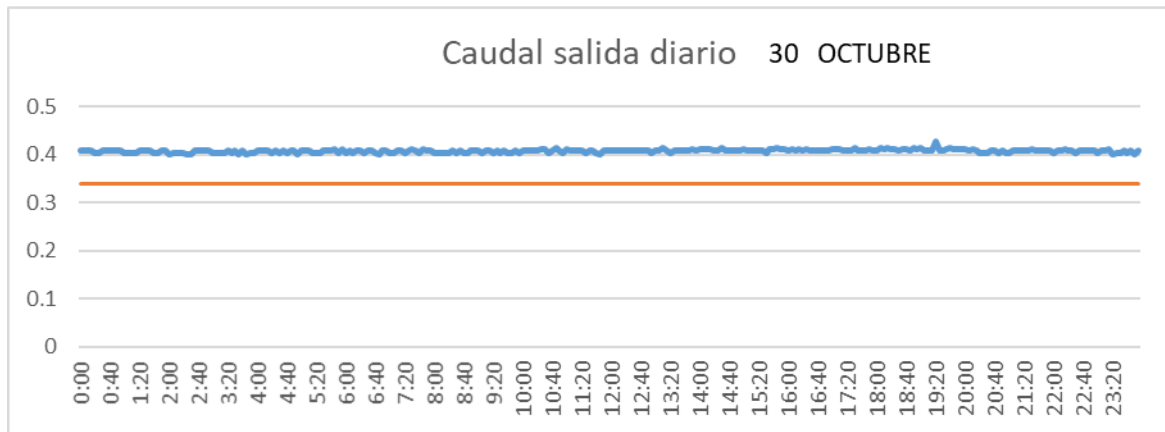
CUENCA



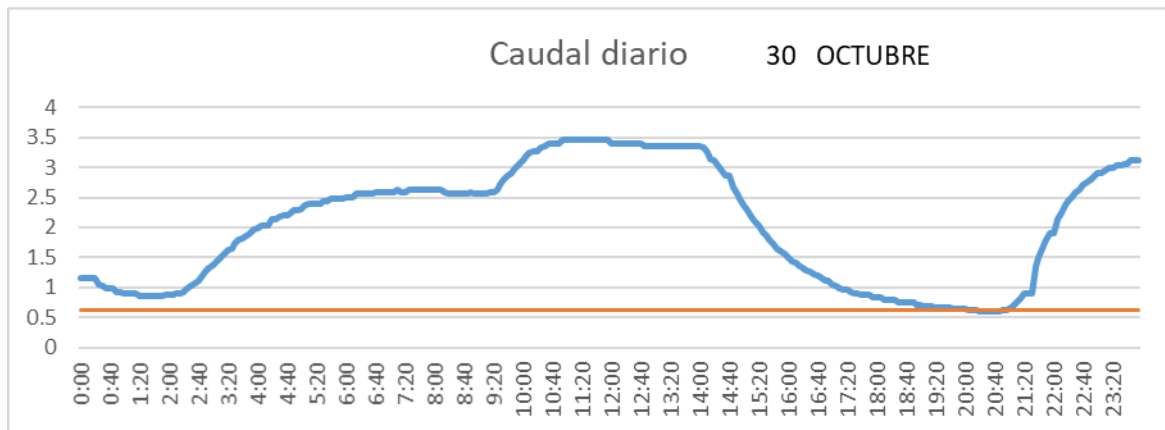
SAN LORENZO PARRILLA



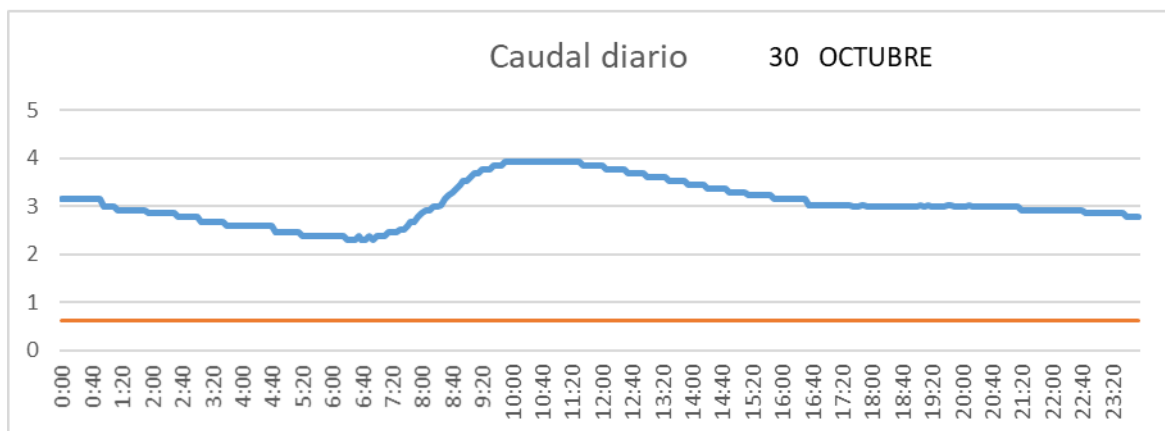
SALIDA TOBA



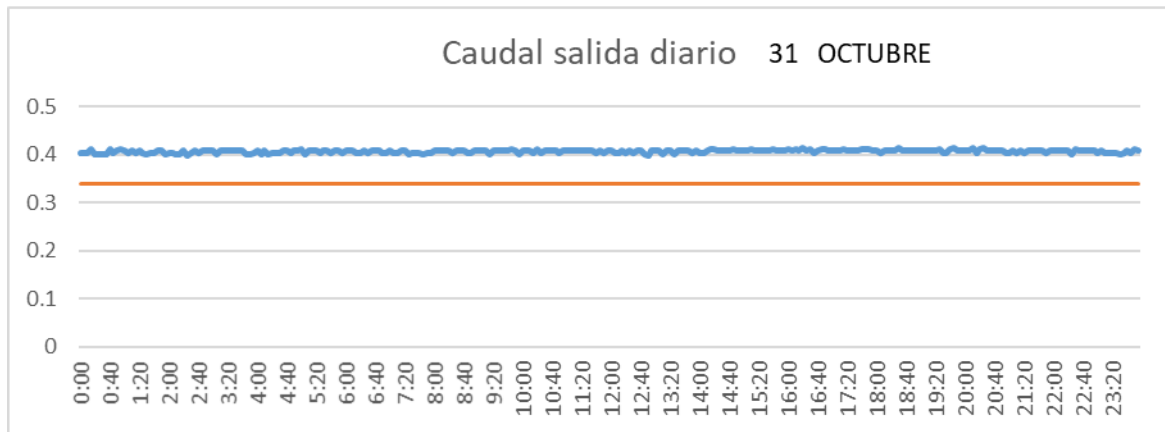
CUENCA



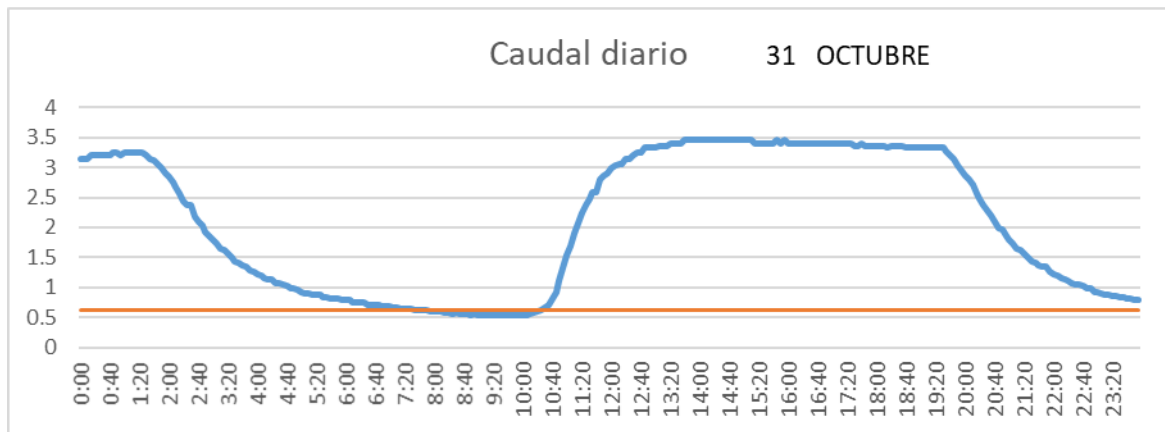
SAN LORENZO PARRILLA



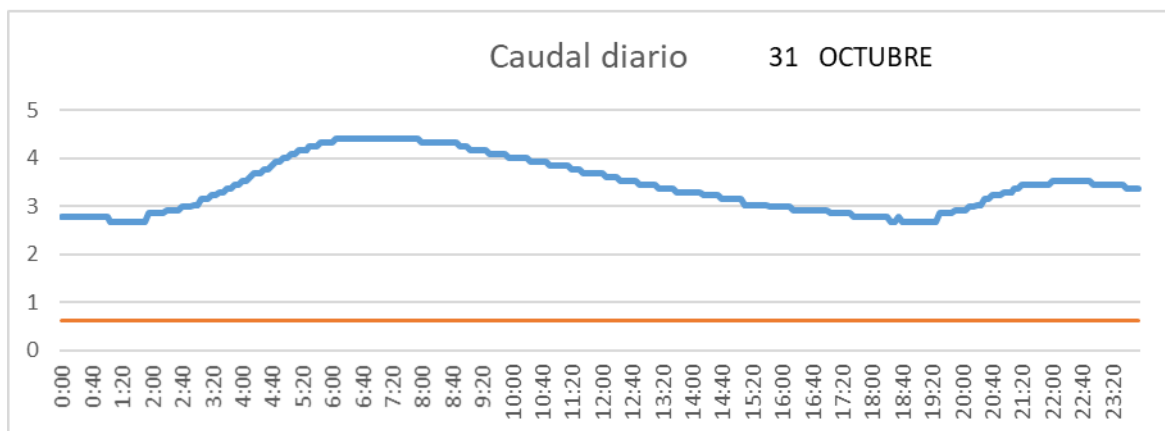
SALIDA TOBA



CUENCA

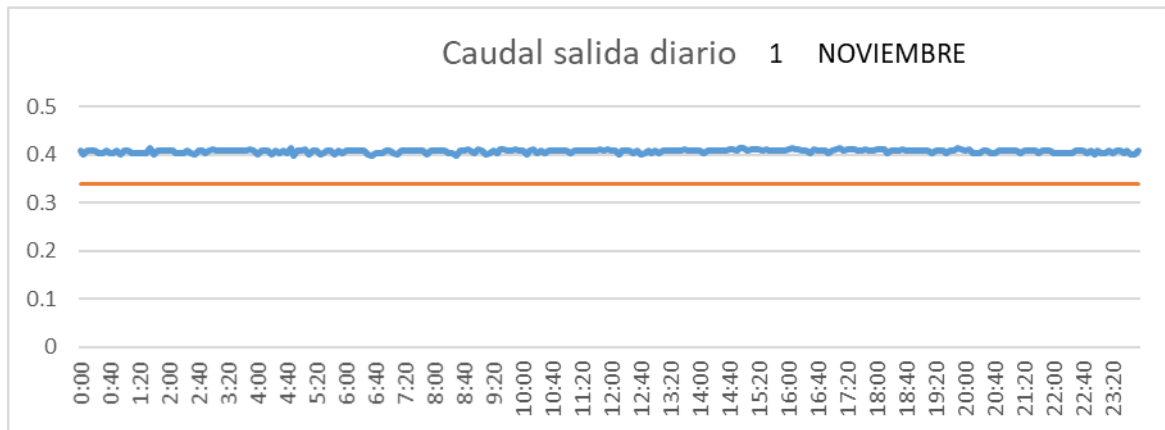


SAN LORENZO PARRILLA

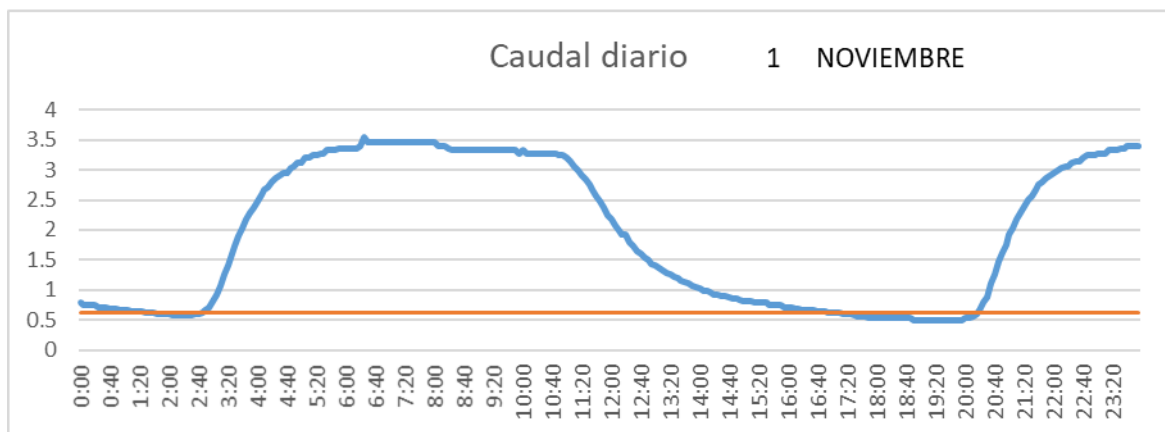


2.2.11 Noviembre

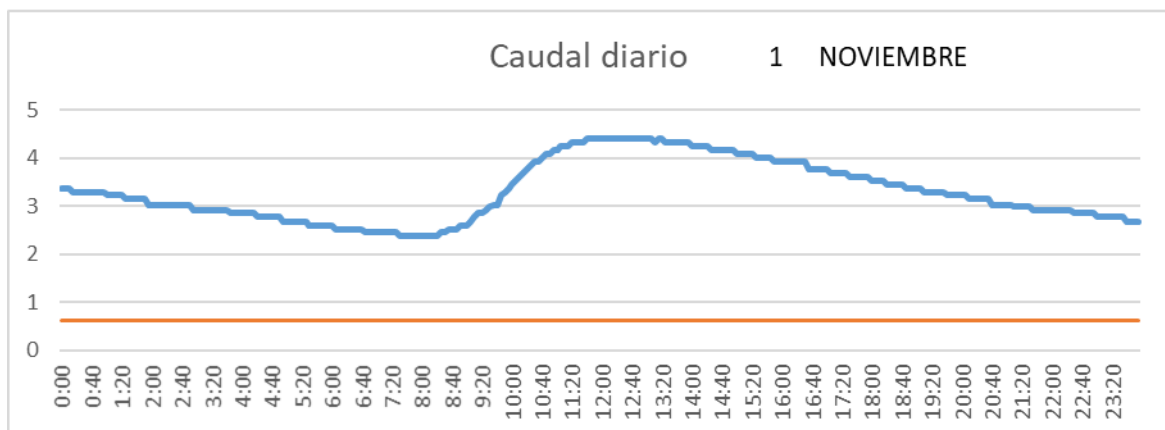
SALIDA TOBA



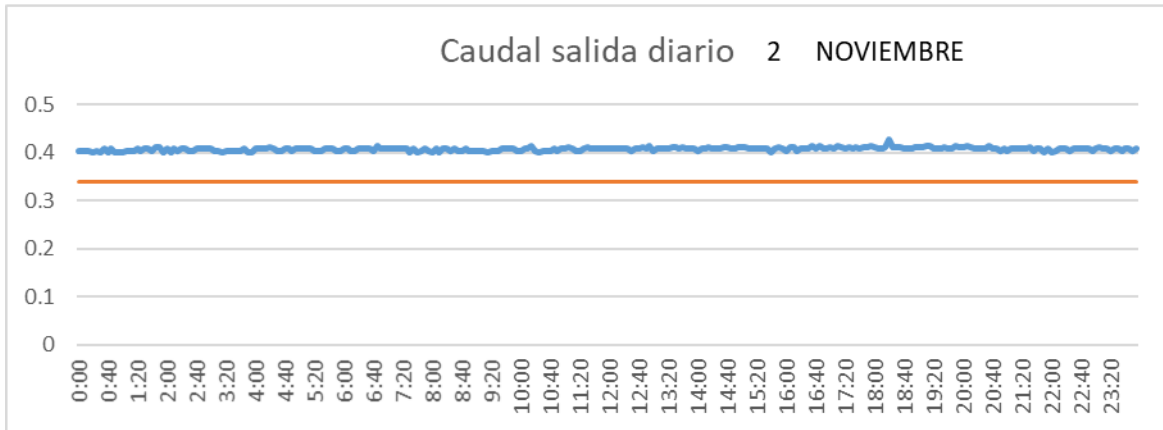
CUENCA



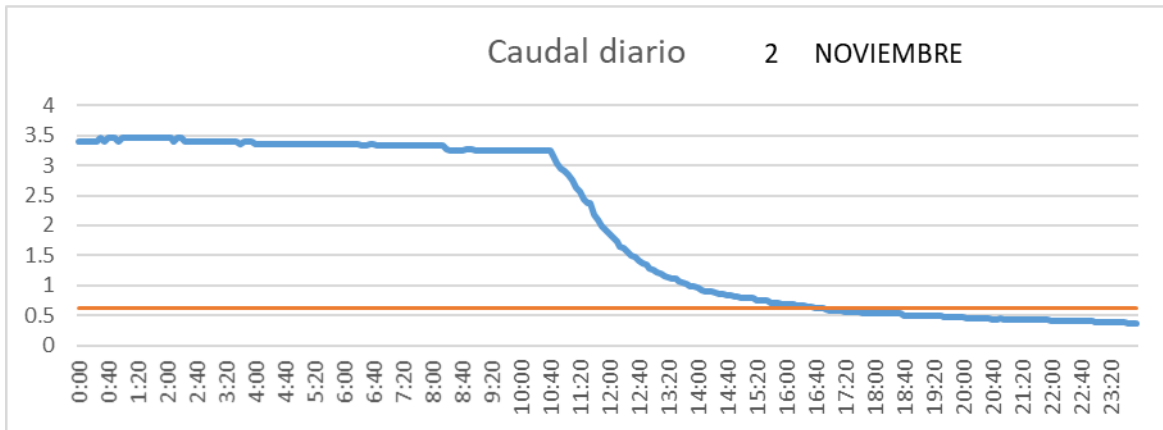
SAN LORENZO PARRILLA



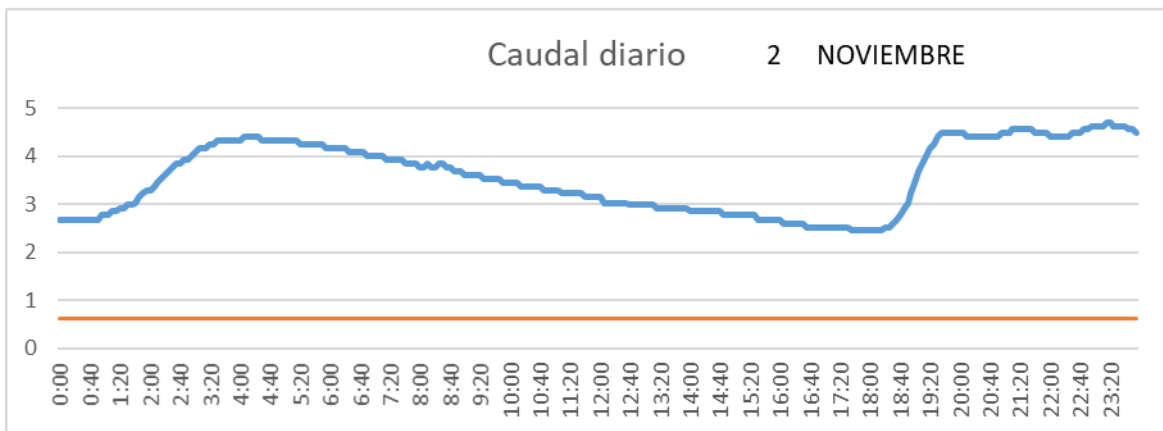
SALIDA TOBA



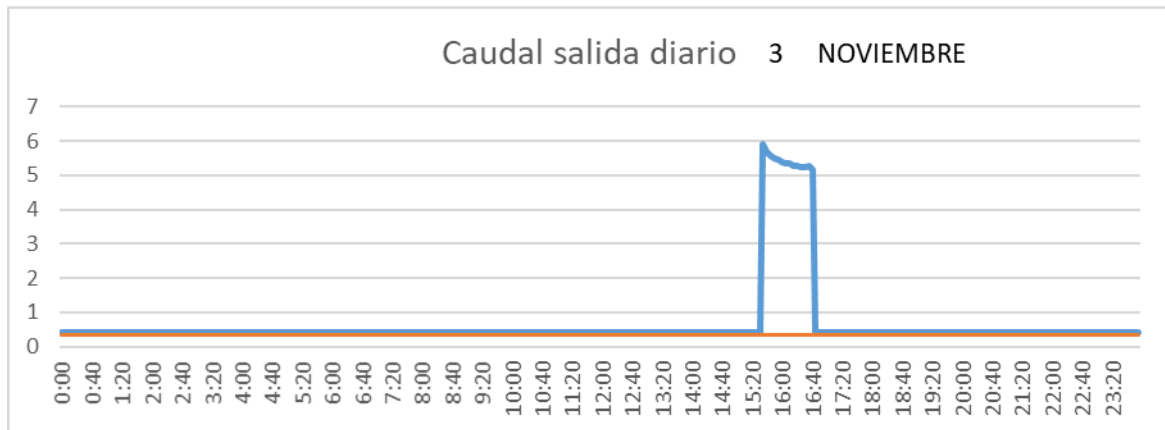
CUENCA



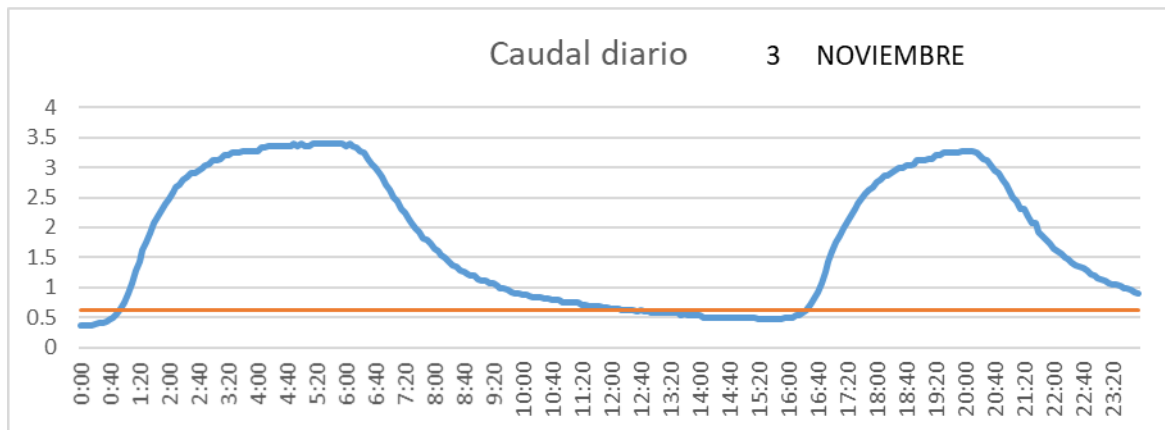
SAN LORENZO PARRILLA



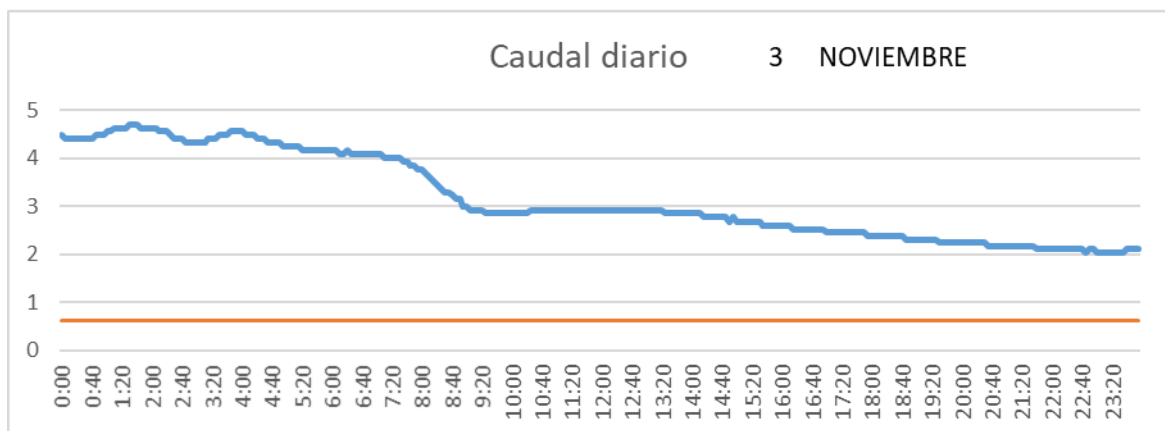
SALIDA TOBA



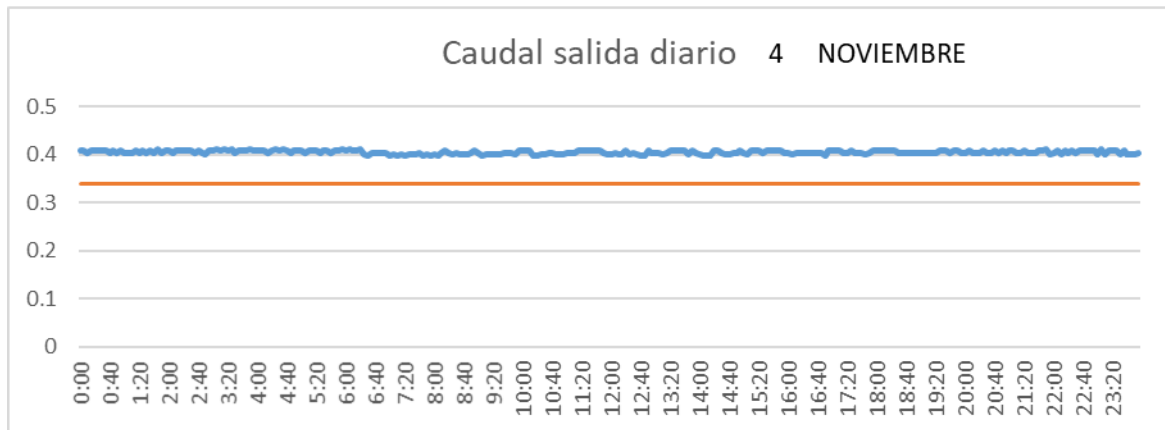
CUENCA



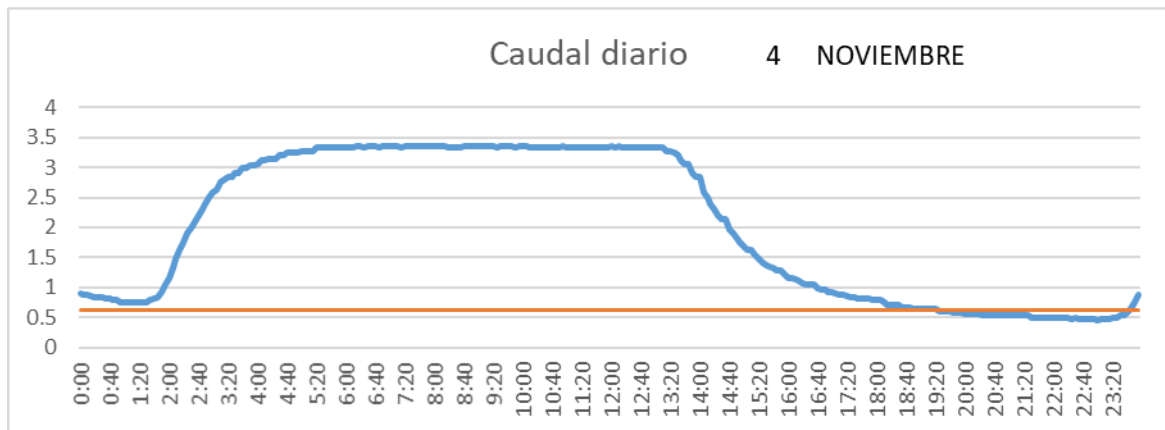
SAN LORENZO PARRILLA



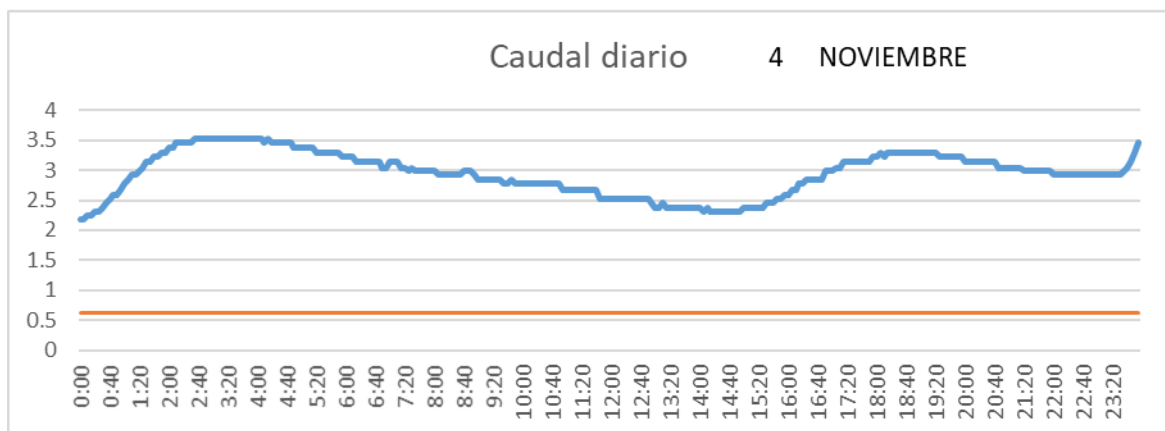
SALIDA TOBA



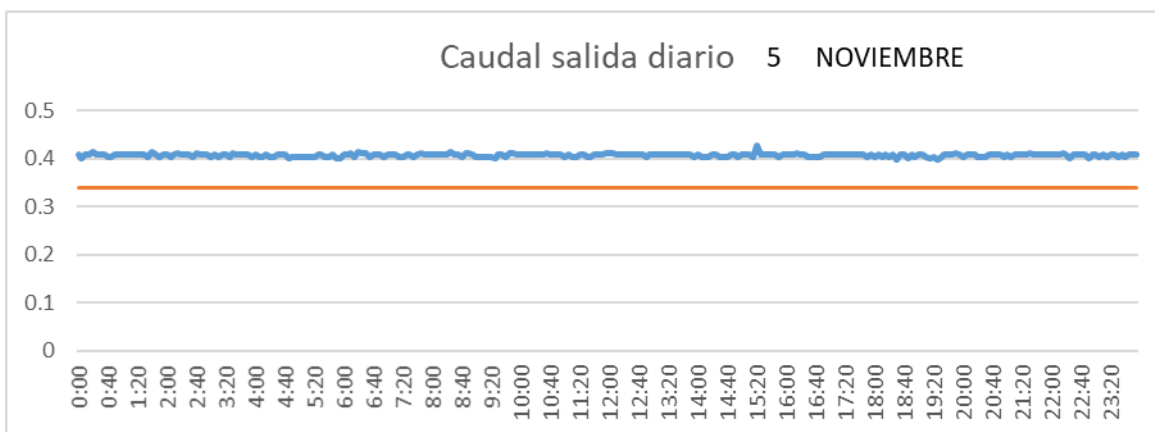
CUENCA



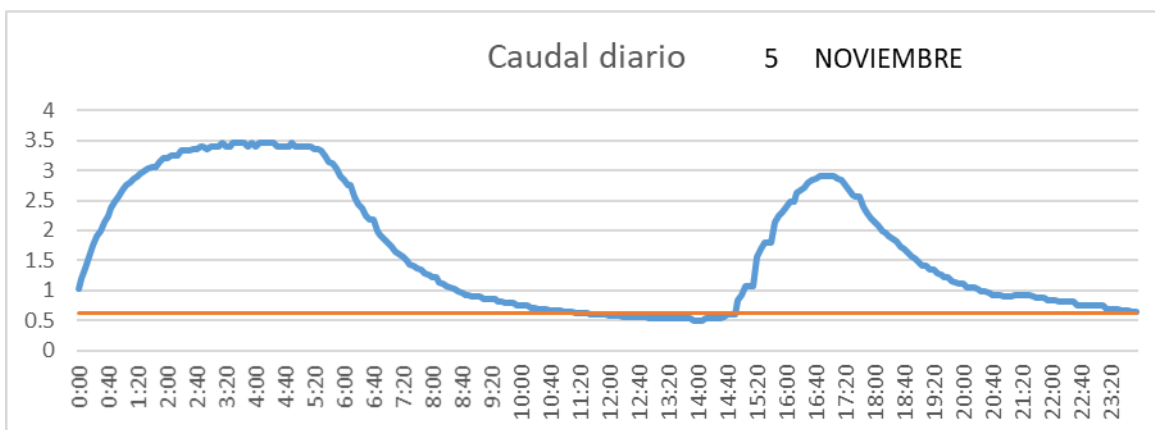
SAN LORENZO PARRILLA



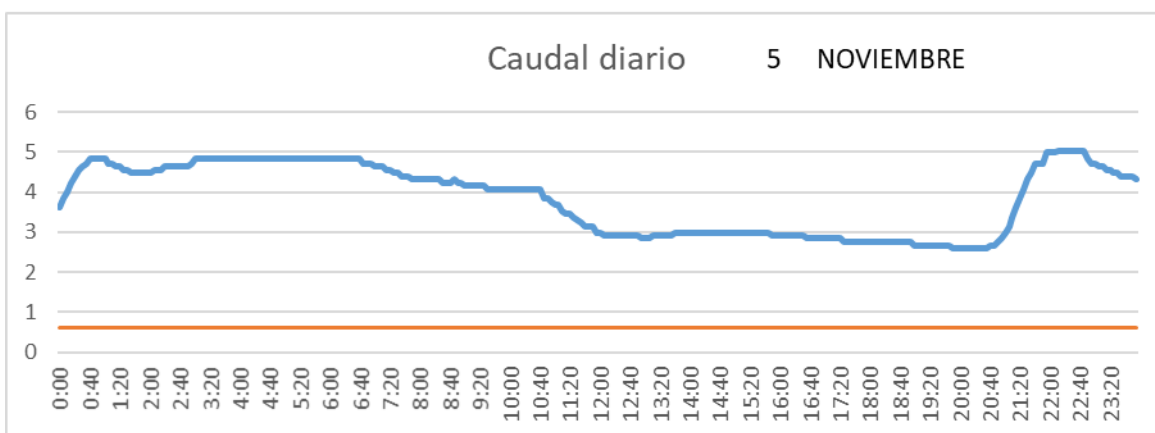
SALIDA TOBA



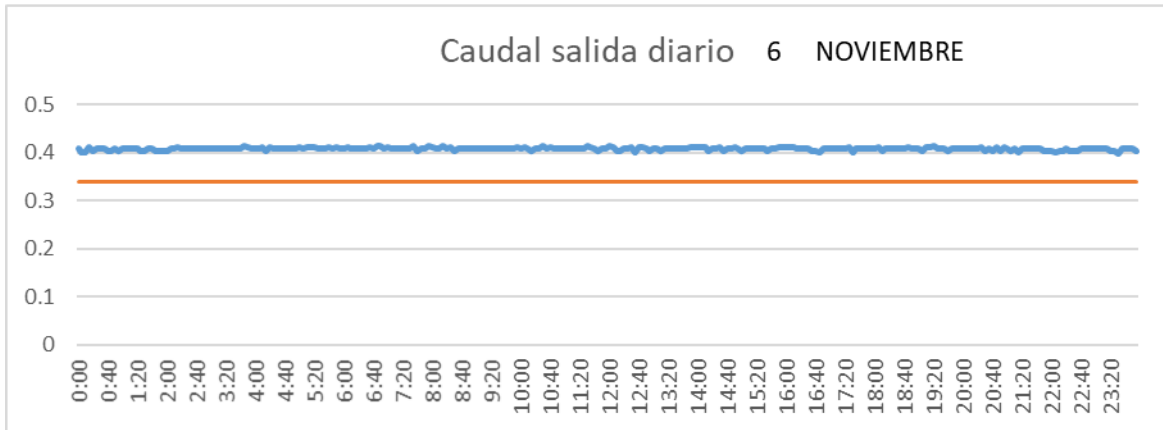
CUENCA



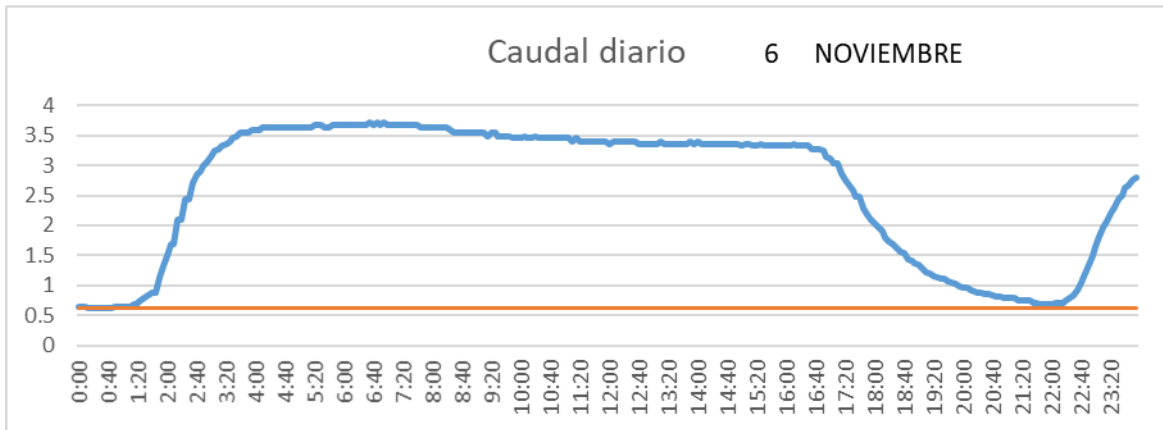
SAN LORENZO PARRILLA



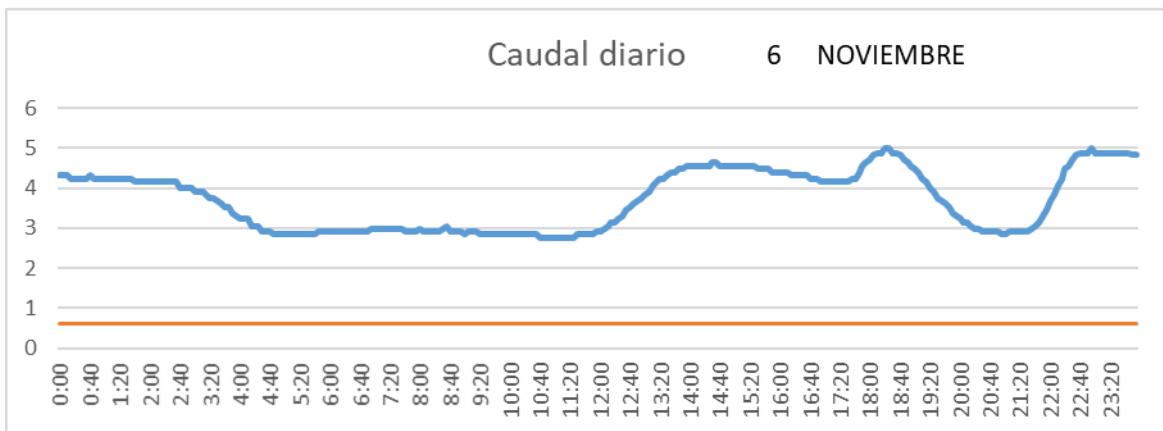
SALIDA TOBA



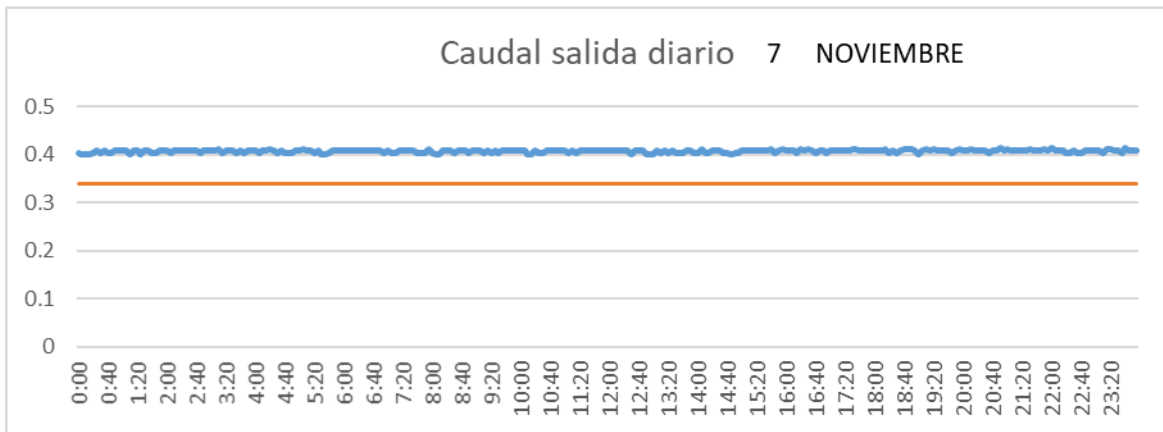
CUENCA



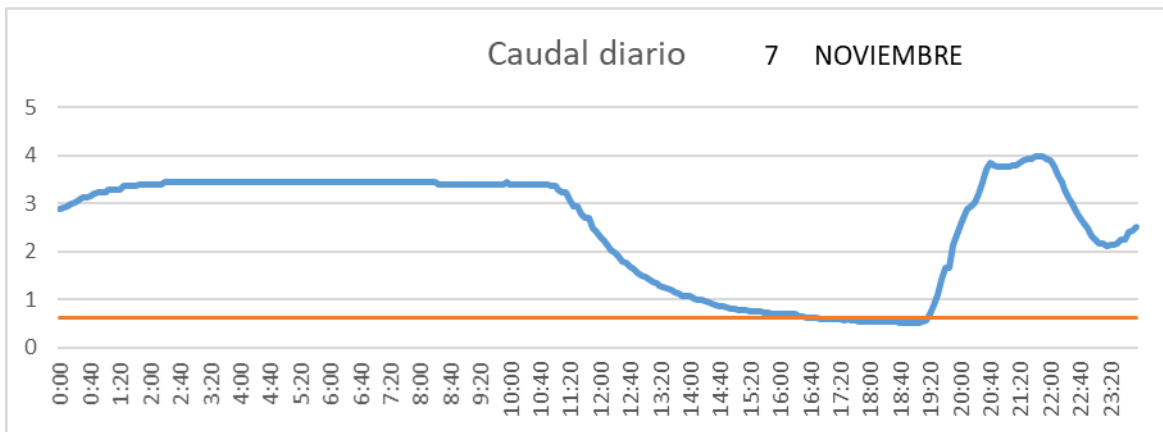
SAN LORENZO PARRILLA



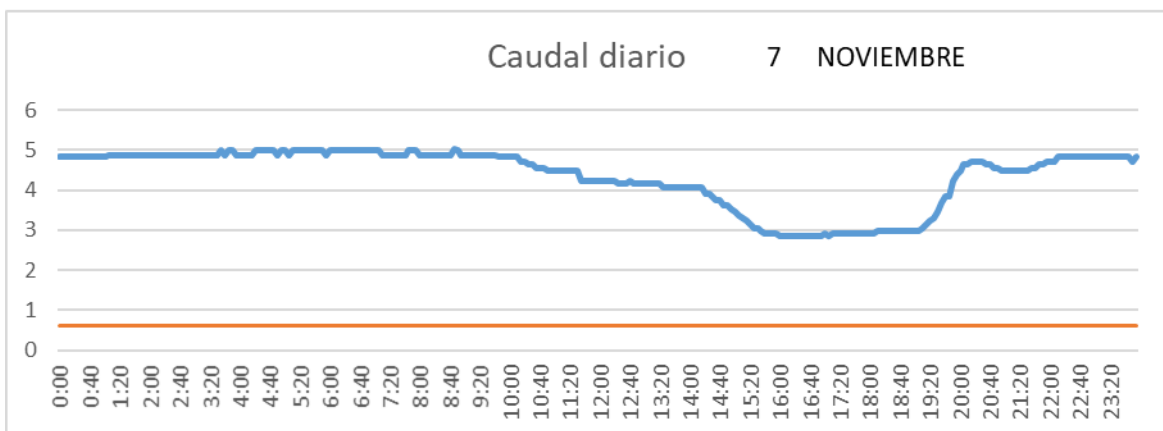
SALIDA TOBA



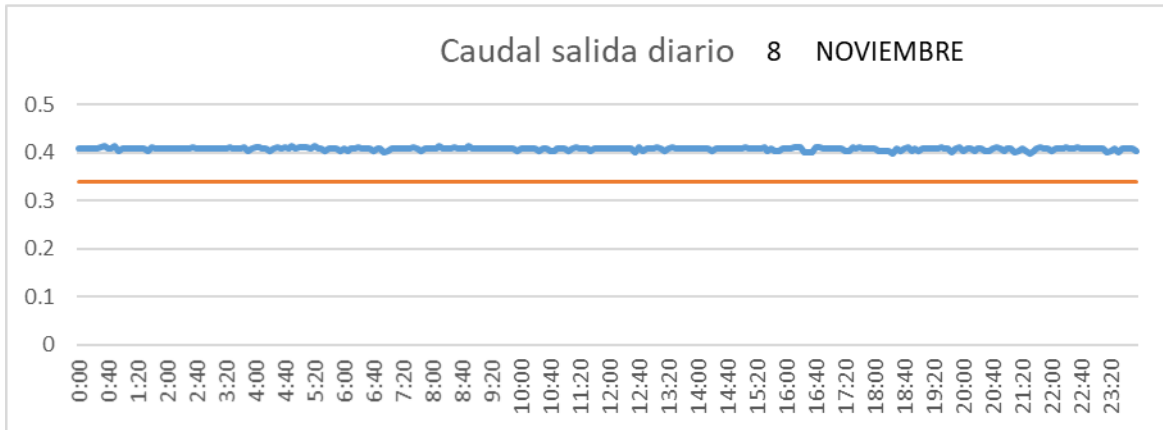
CUENCA



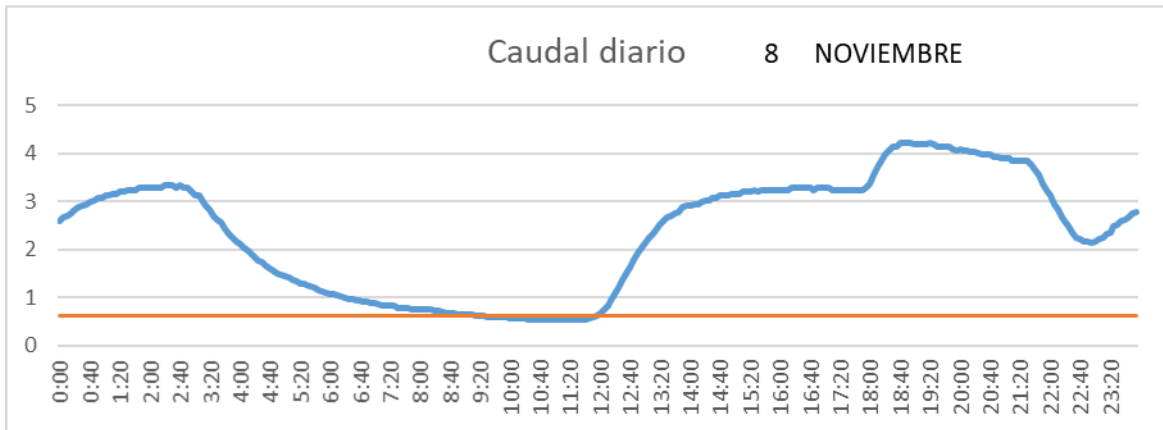
SAN LORENZO PARRILLA



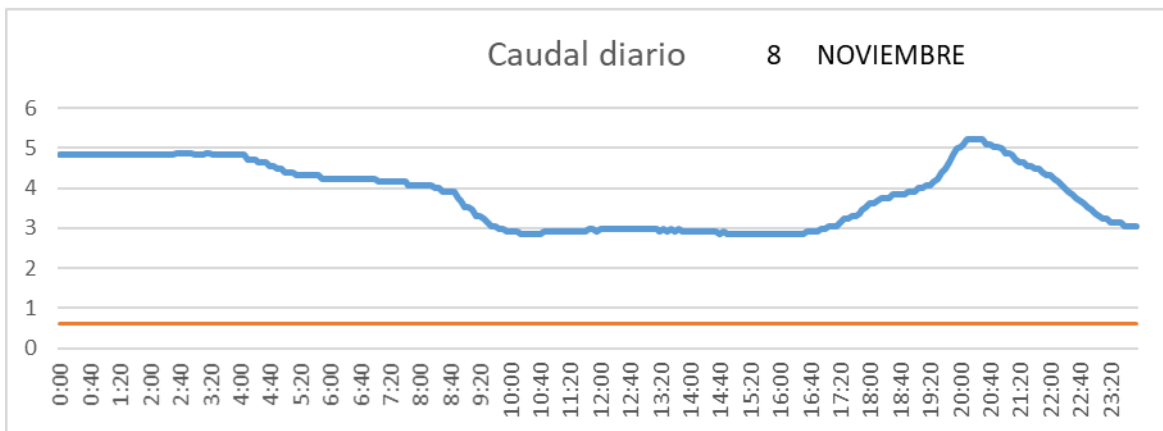
SALIDA TOBA



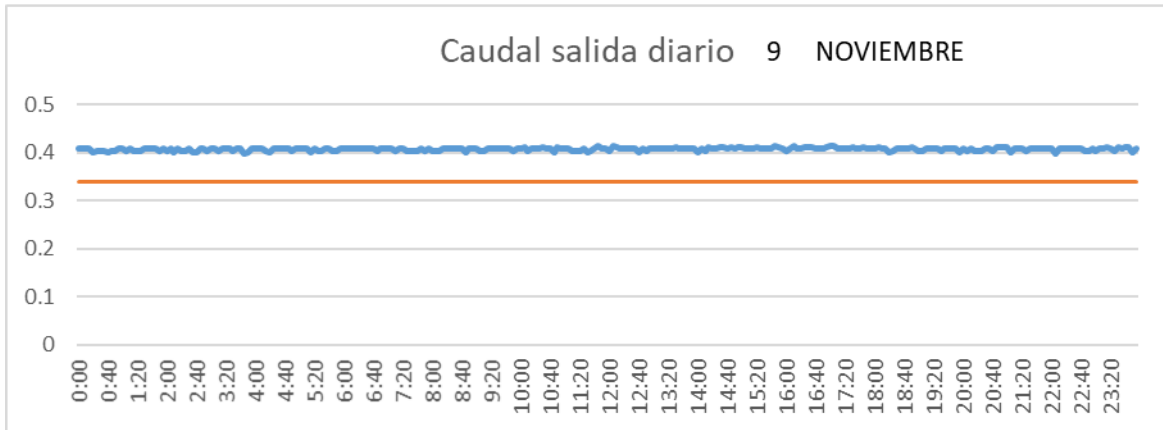
CUENCA



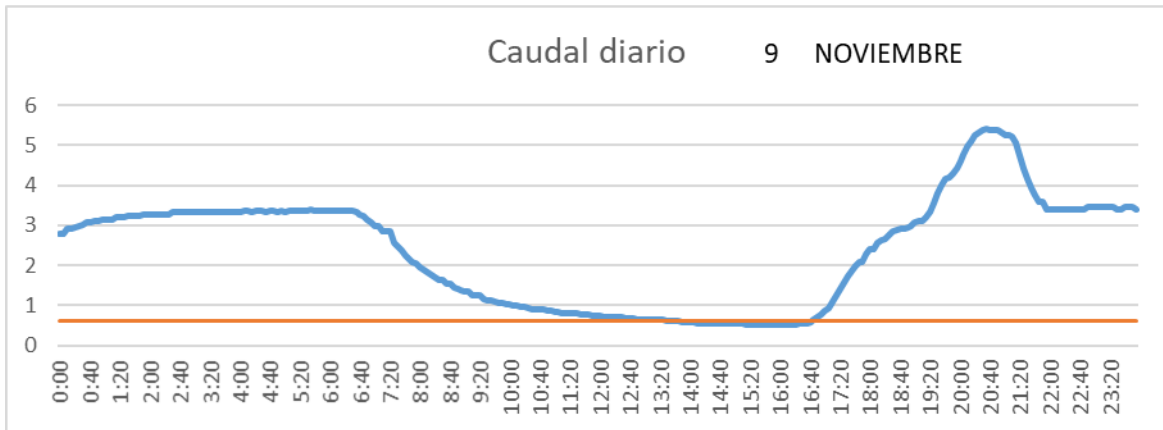
SAN LORENZO PARRILLA



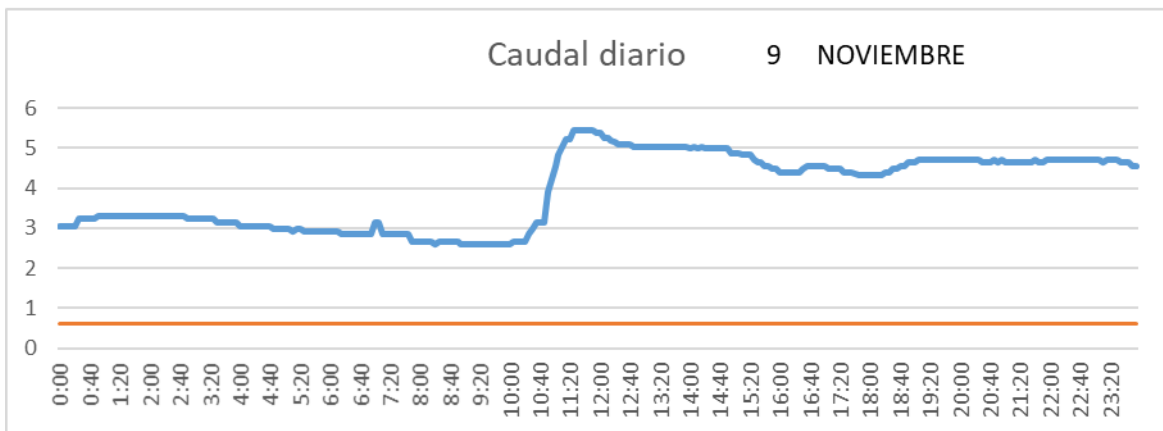
SALIDA TOBA



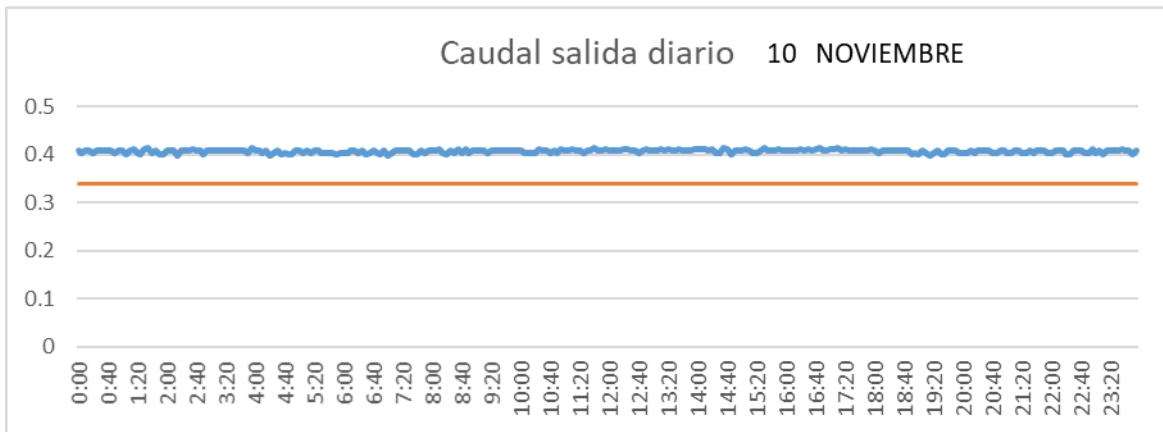
CUENCA



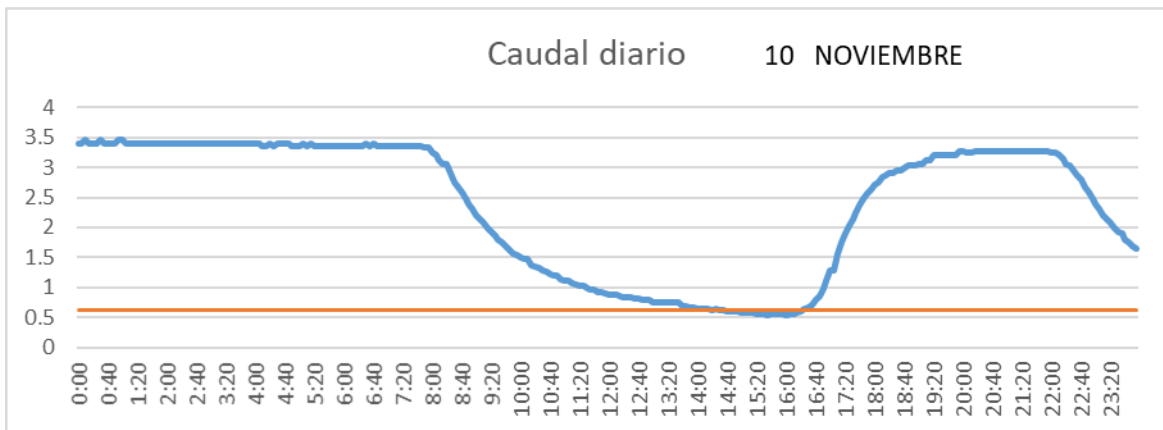
SAN LORENZO PARRILLA



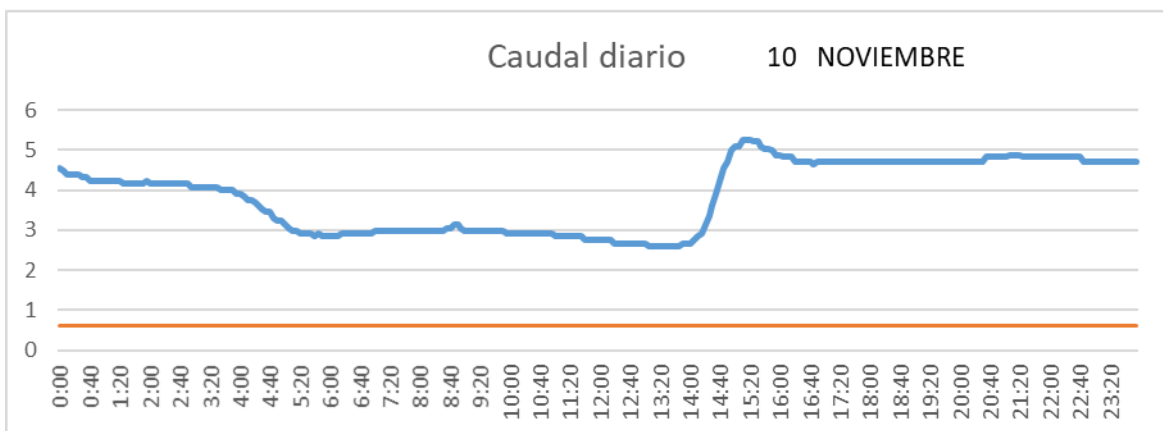
SALIDA TOBA



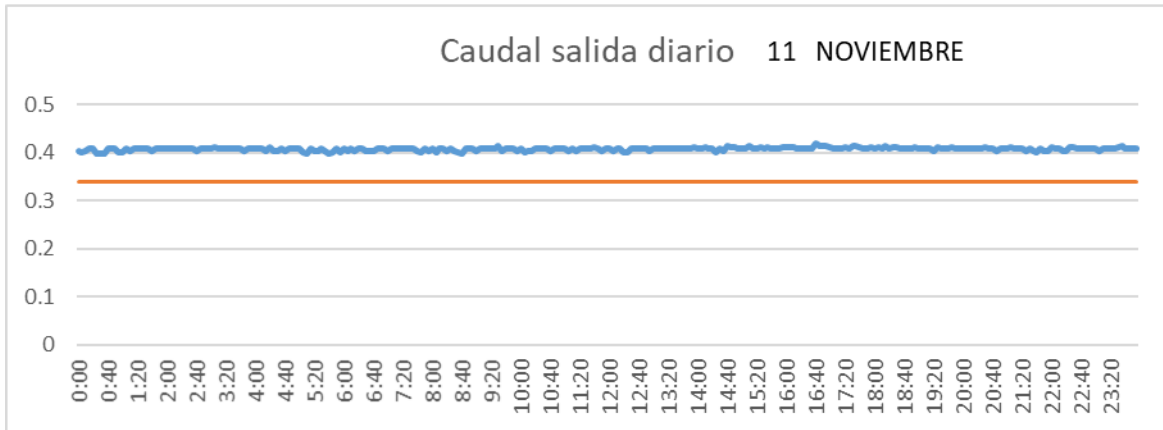
CUENCA



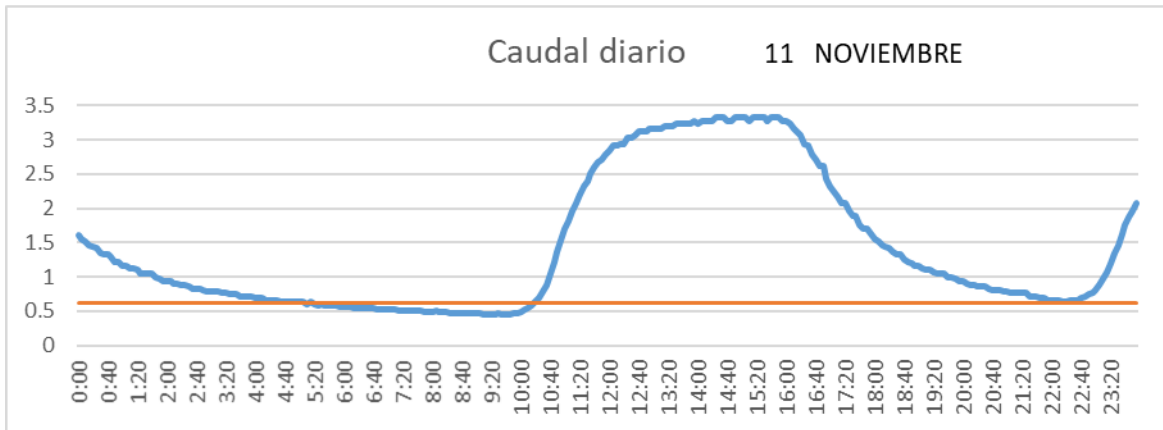
SAN LORENZO PARRILLA



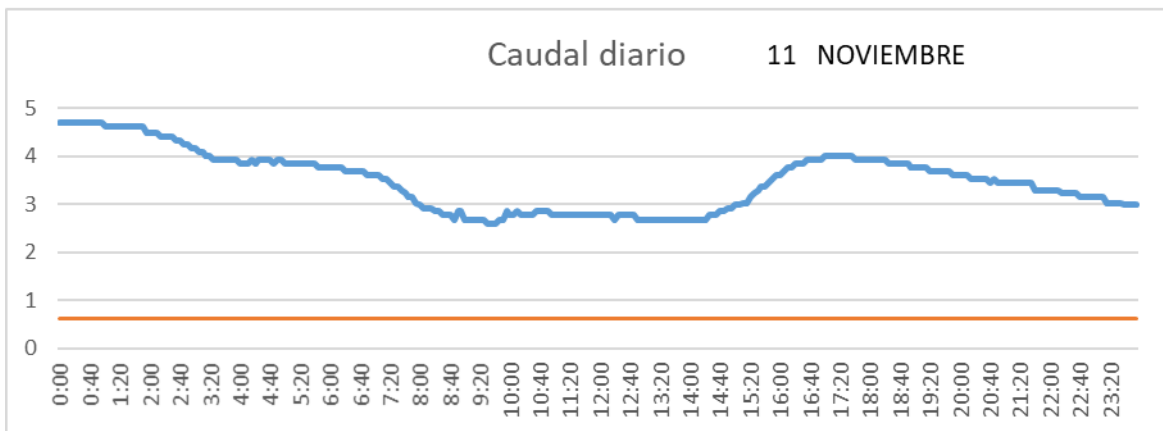
SALIDA TOBA



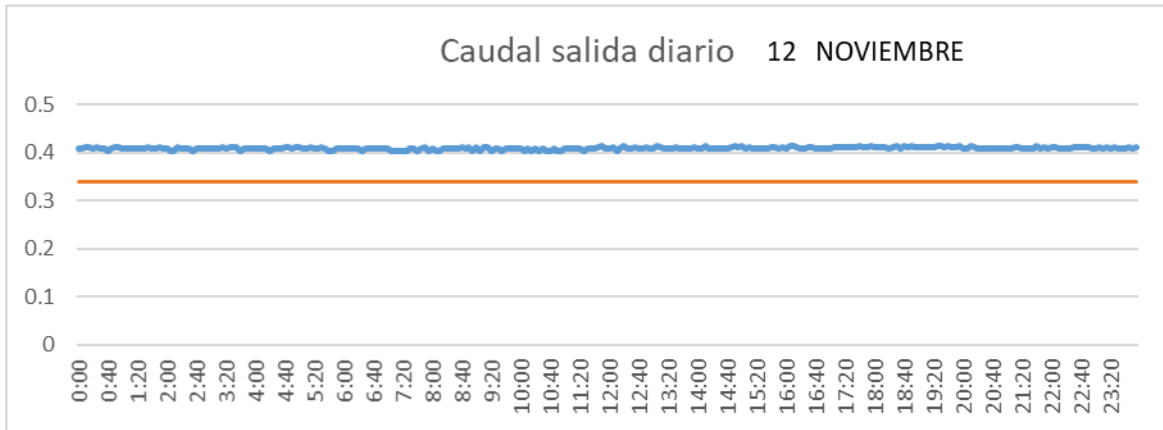
CUENCA



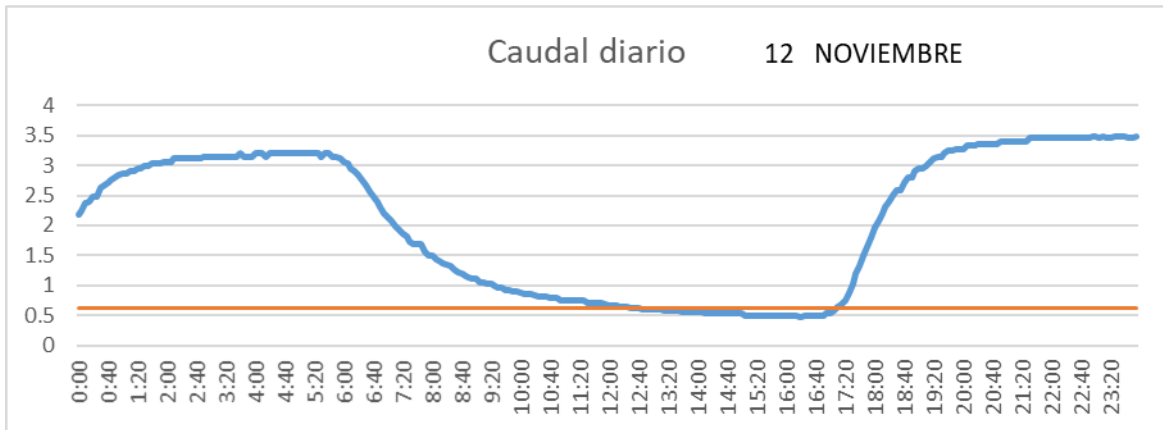
SAN LORENZO PARRILLA



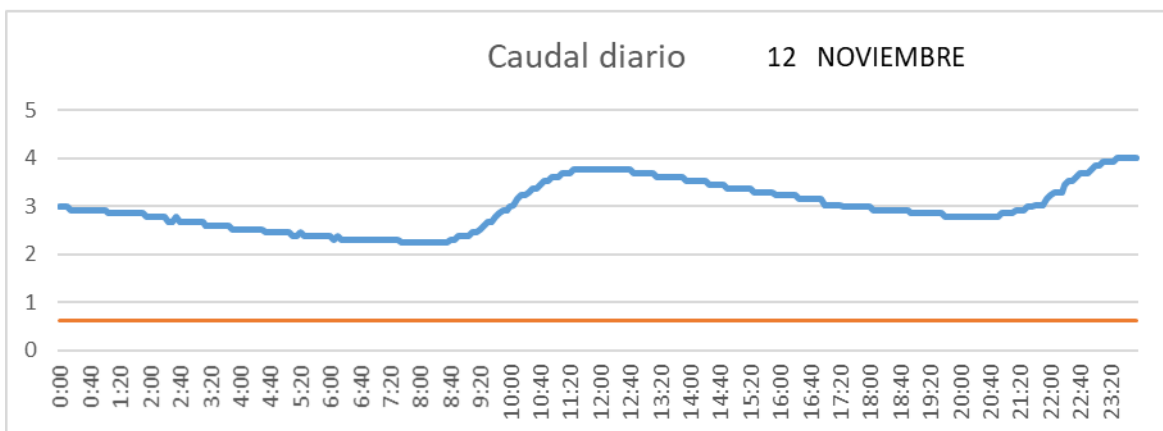
SALIDA TOBA



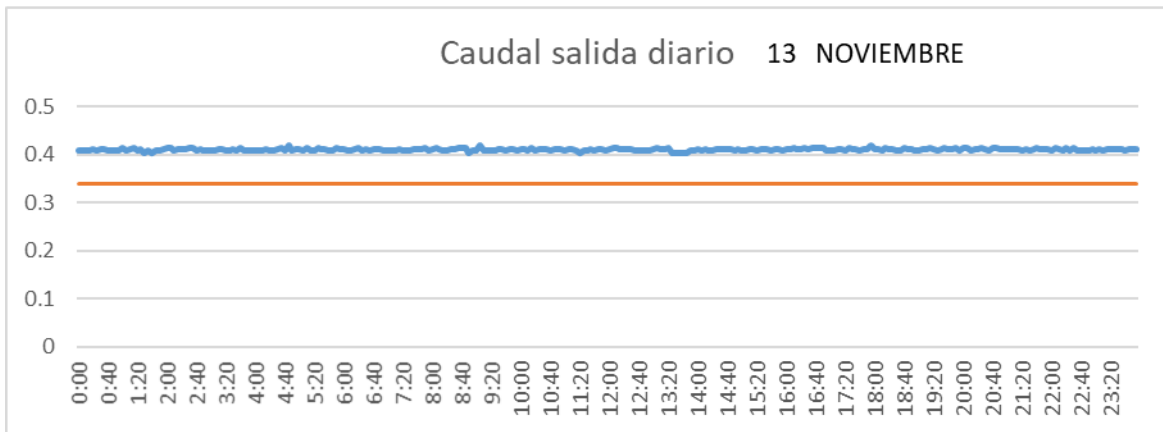
CUENCA



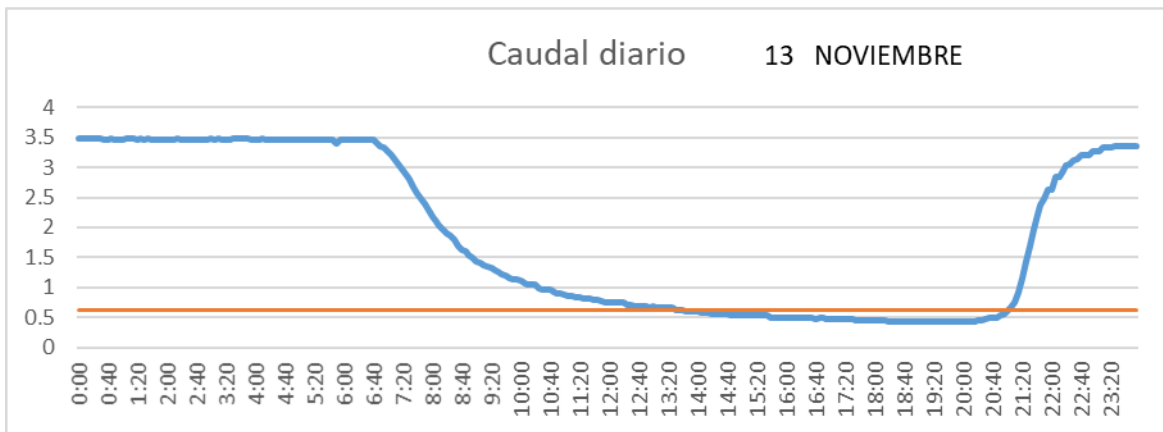
SAN LORENZO PARRILLA



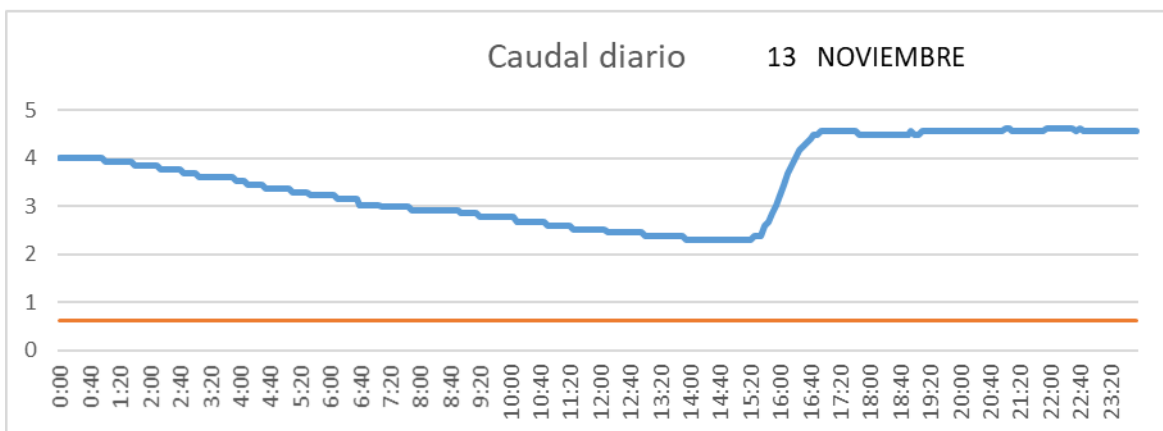
SALIDA TOBA



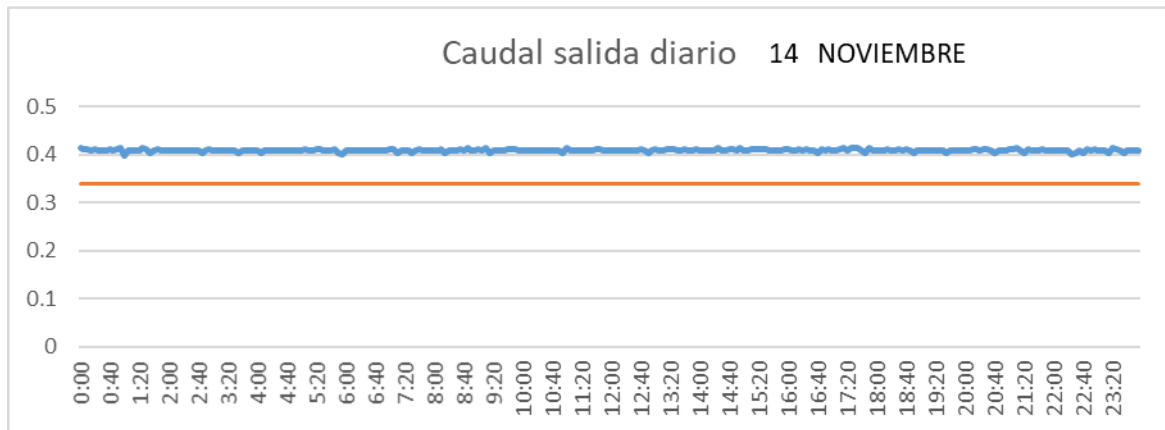
CUENCA



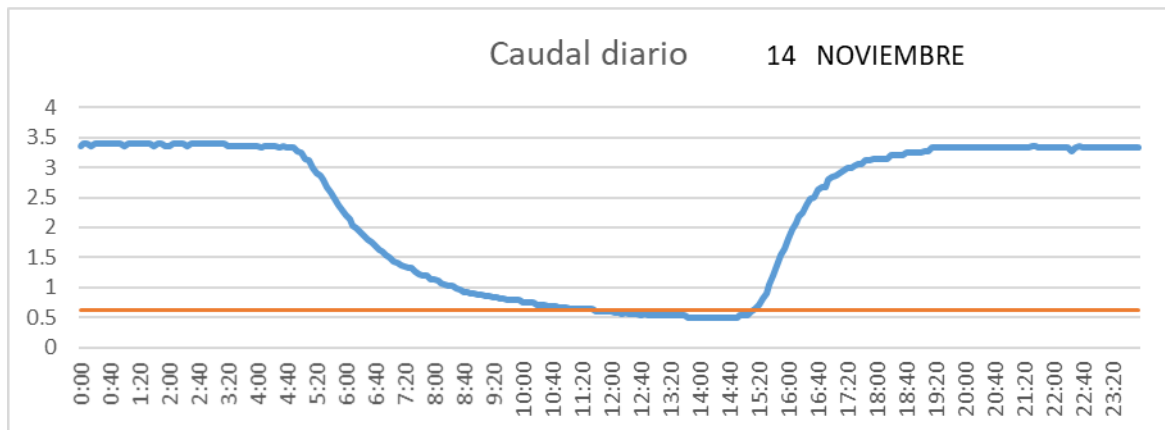
SAN LORENZO PARRILLA



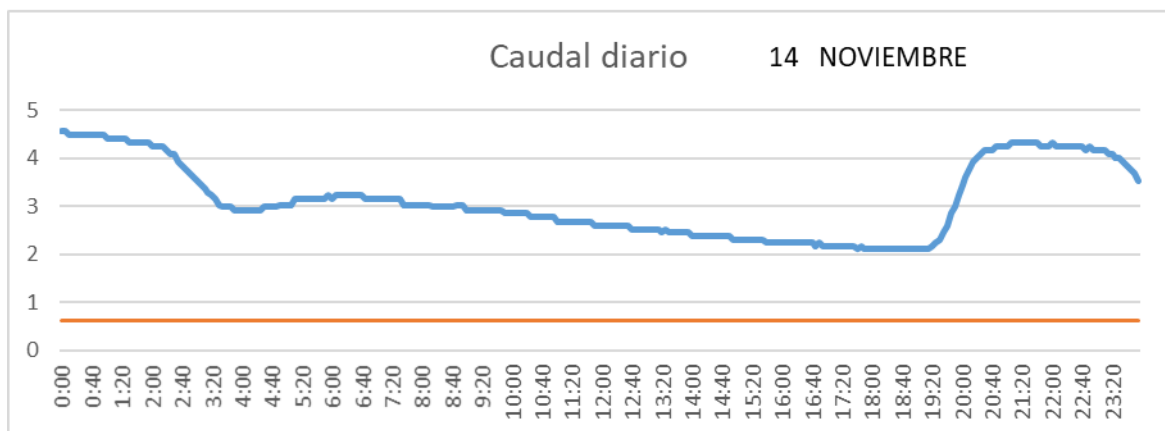
SALIDA TOBA



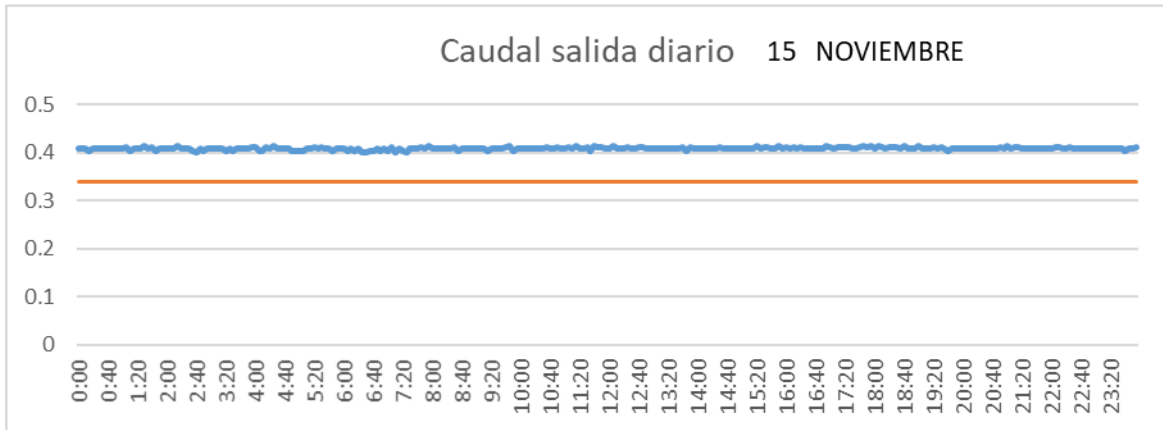
CUENCA



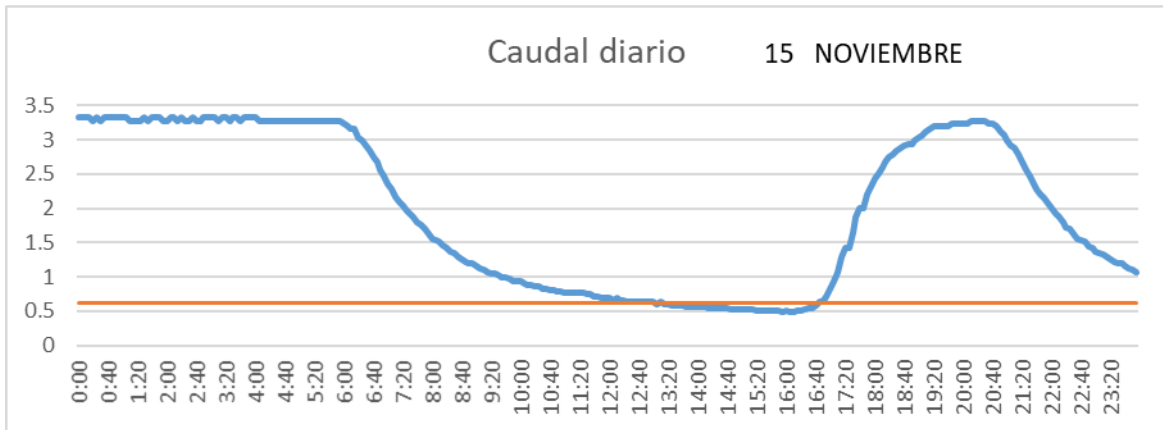
SAN LORENZO PARRILLA



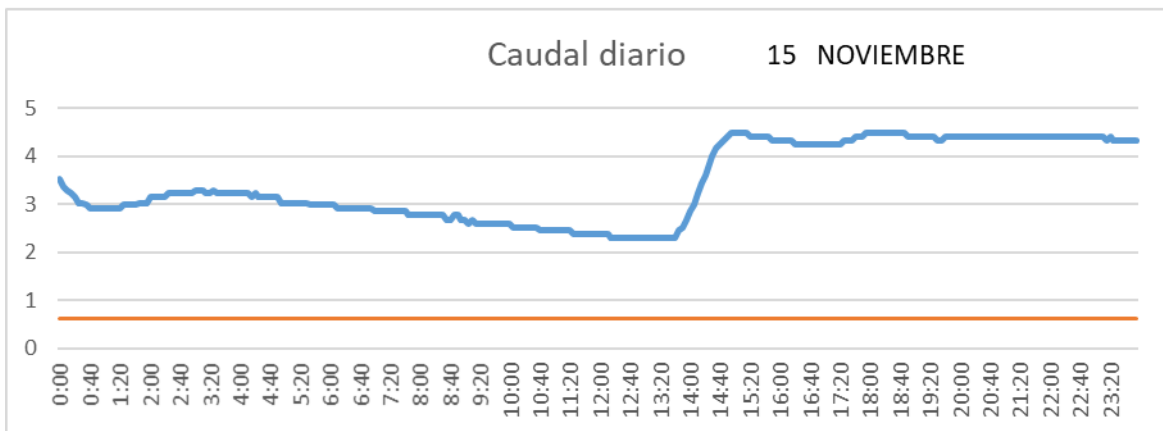
SALIDA TOBA



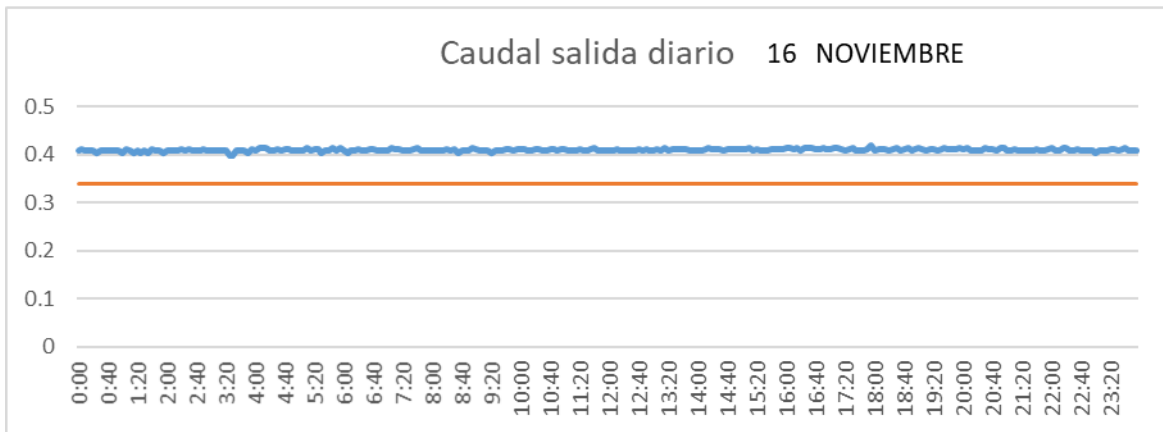
CUENCA



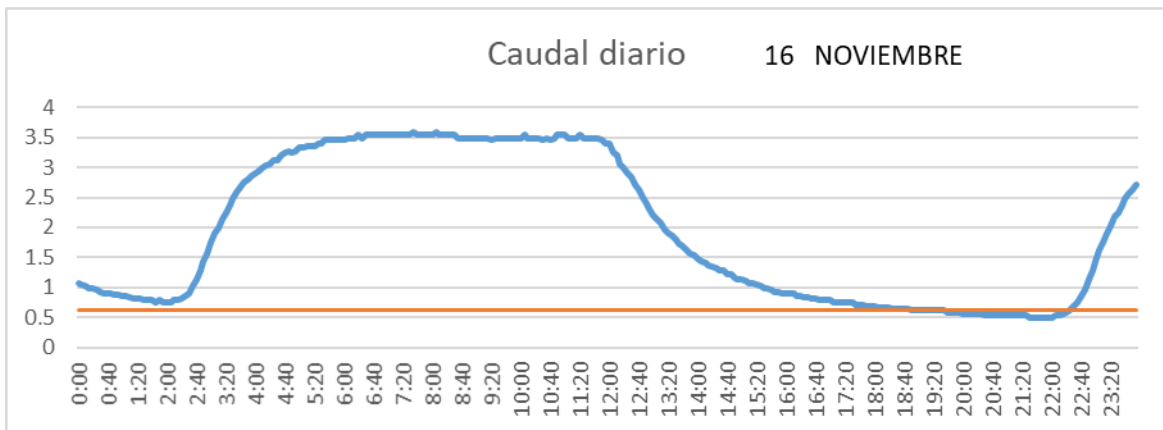
SAN LORENZO PARRILLA



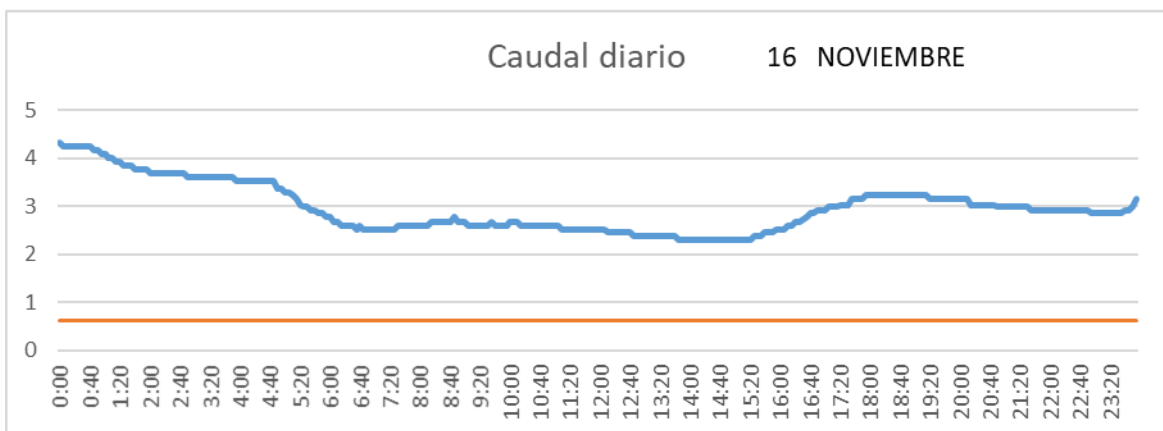
SALIDA TOBA



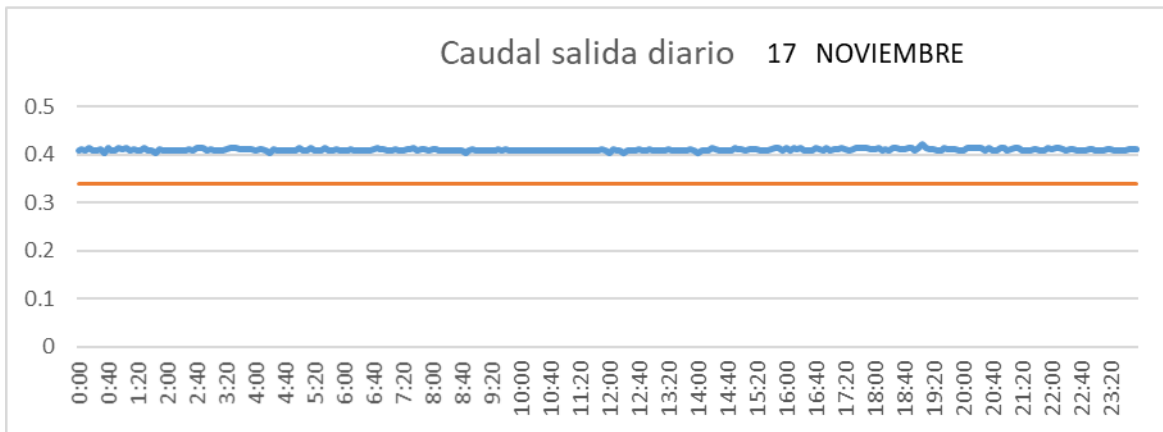
CUENCA



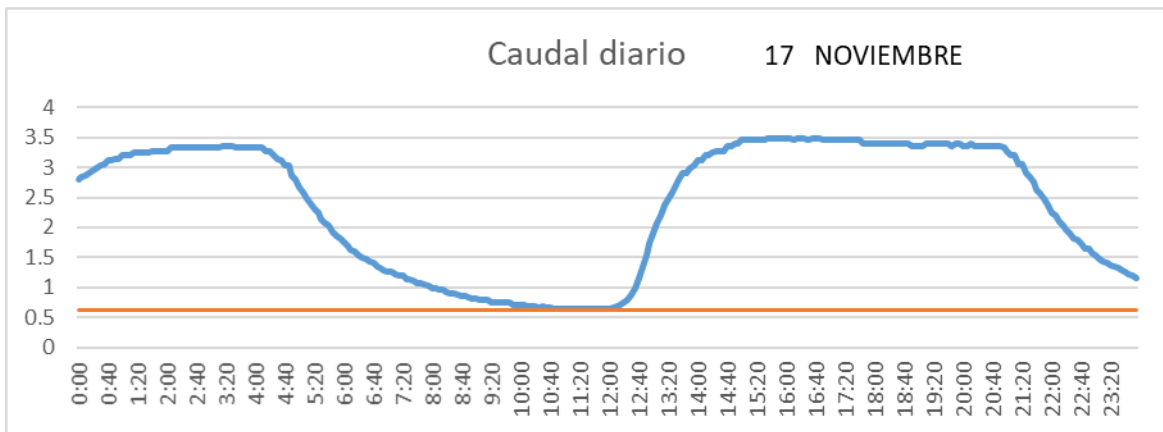
SAN LORENZO PARRILLA



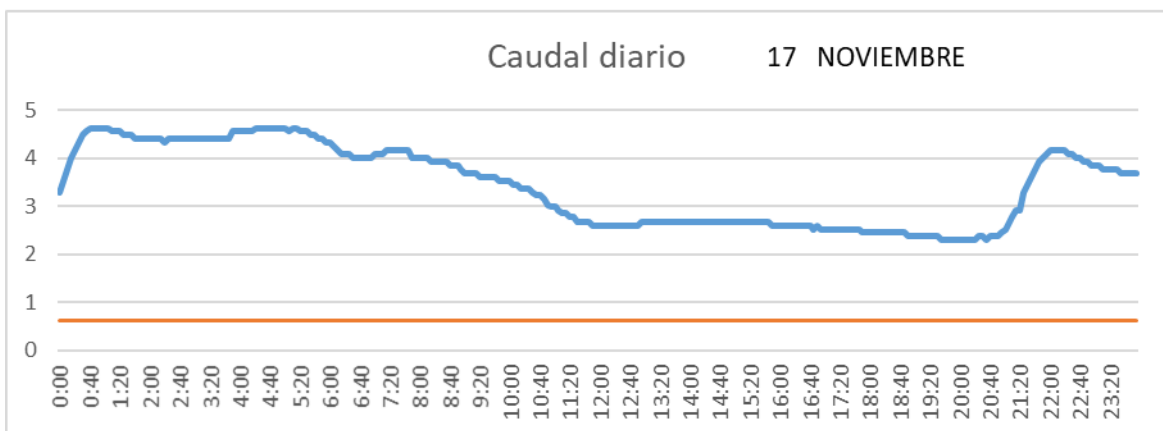
SALIDA TOBA



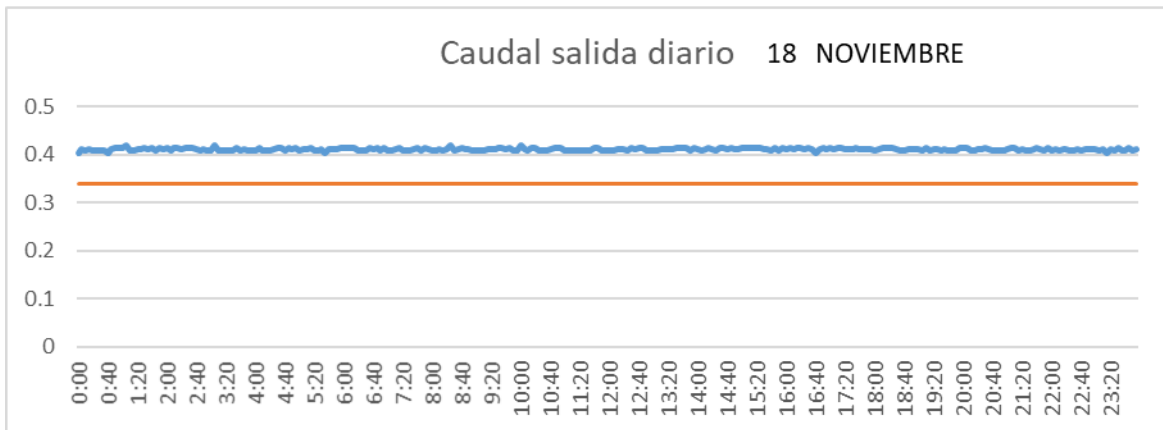
CUENCA



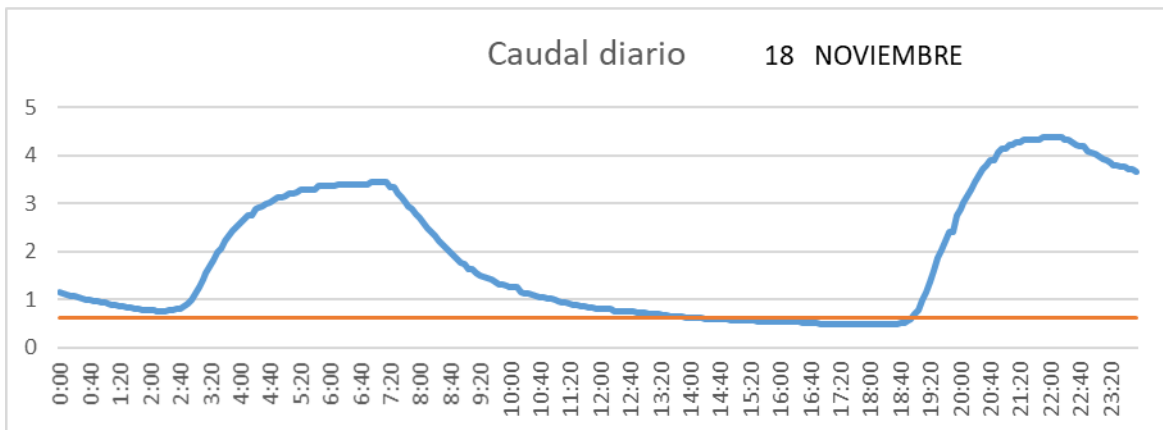
SAN LORENZO PARRILLA



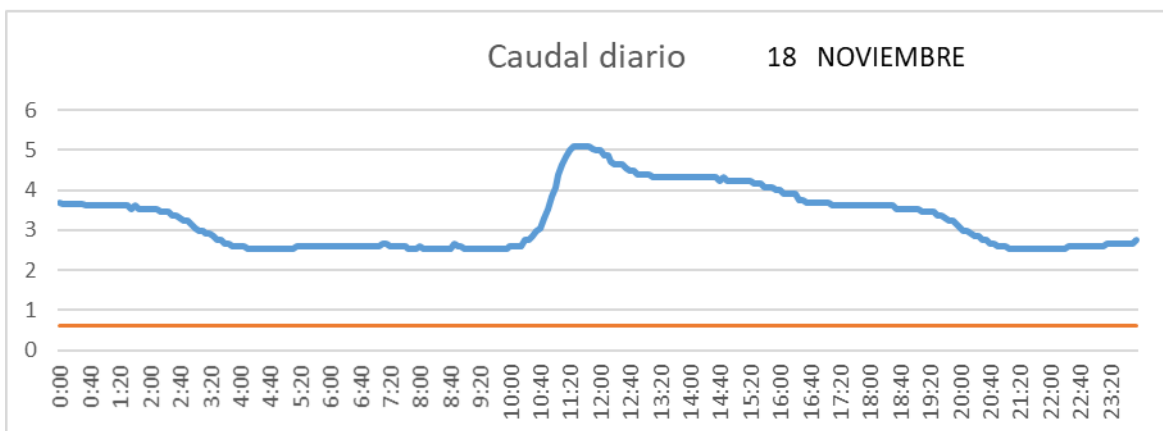
SALIDA TOBA



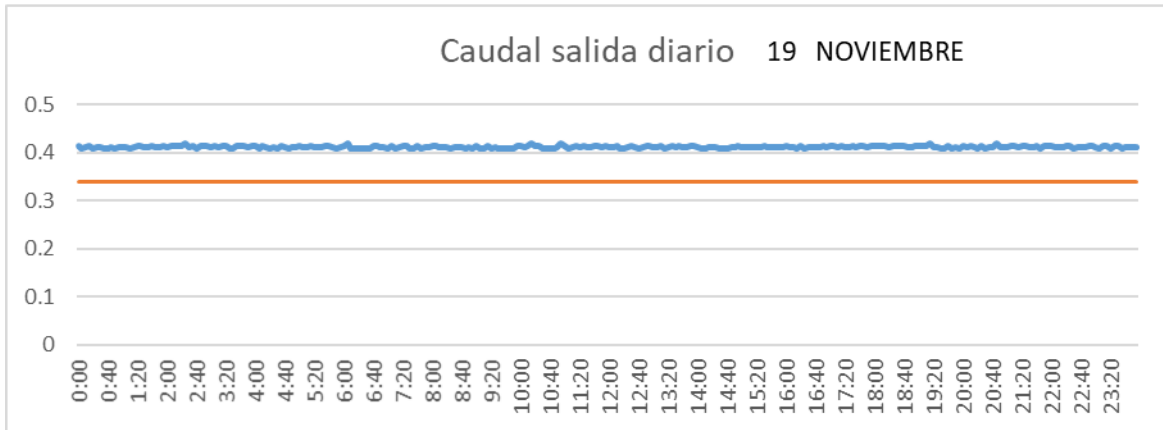
CUENCA



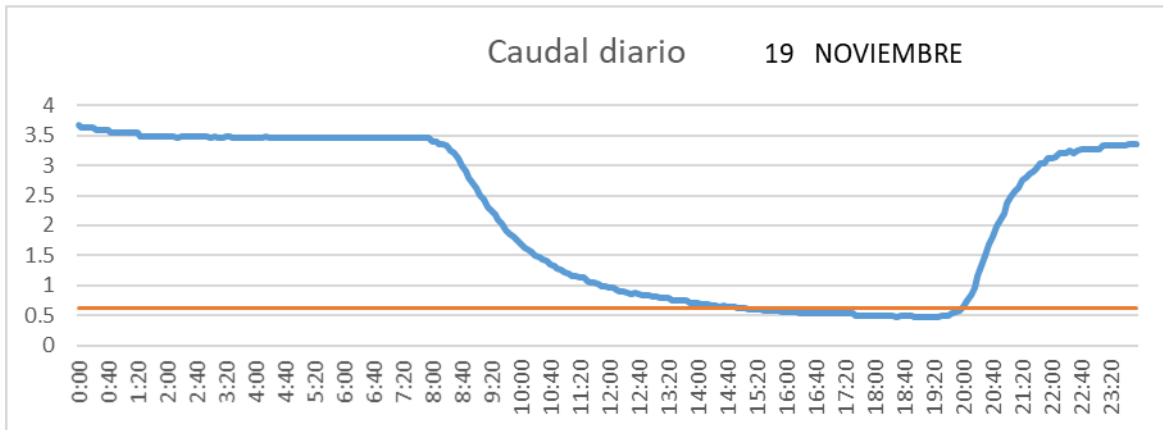
SAN LORENZO PARRILLA



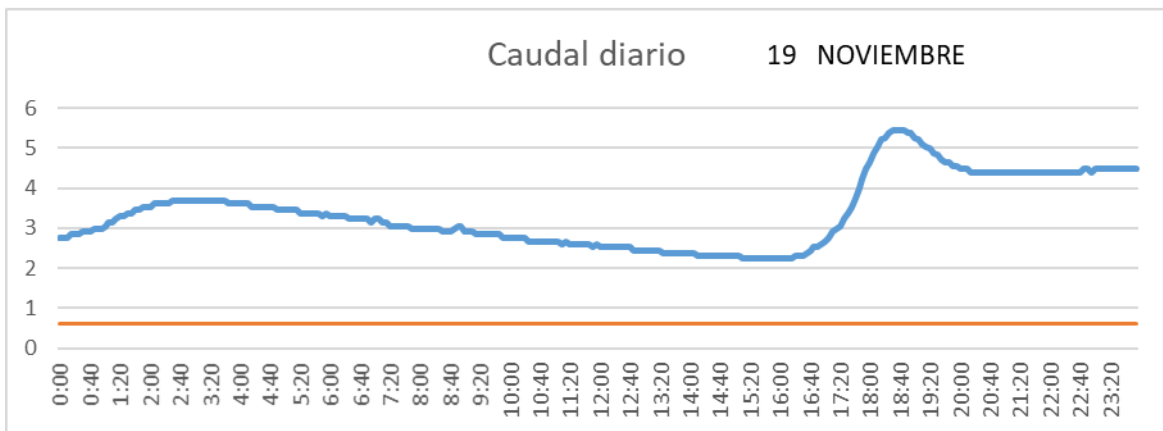
SALIDA TOBA



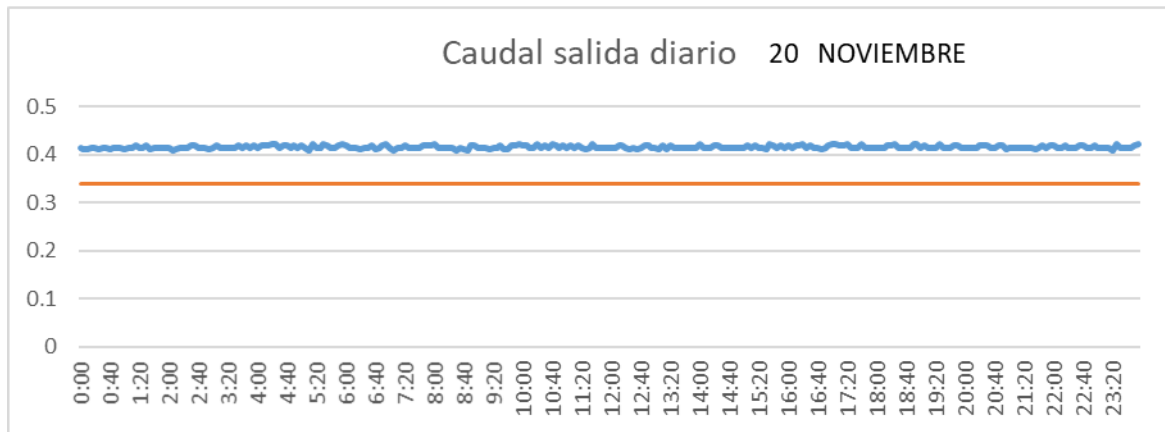
CUENCA



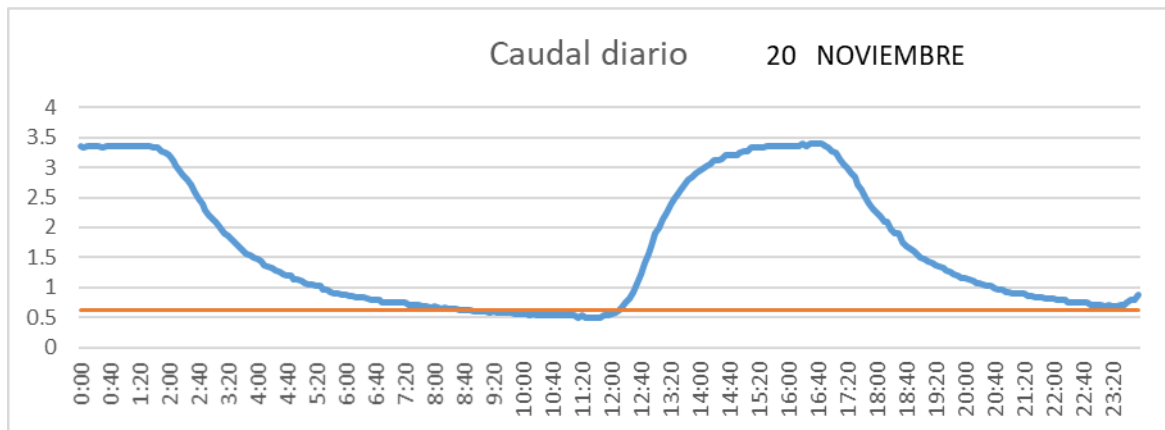
SAN LORENZO PARRILLA



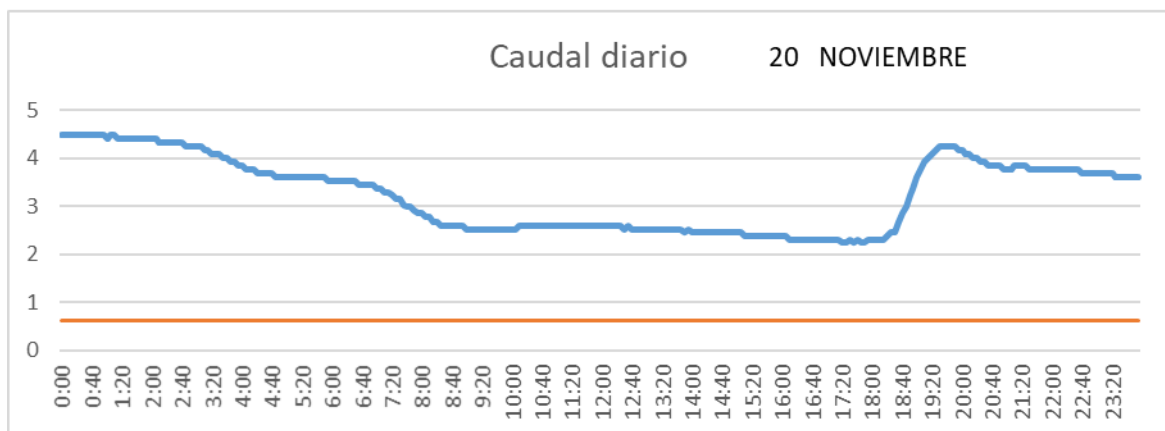
SALIDA TOBA



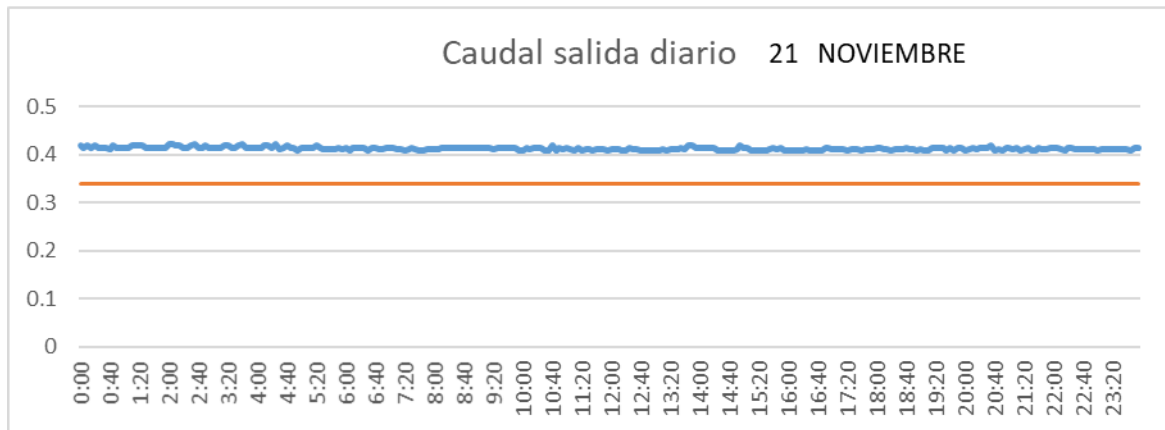
CUENCA



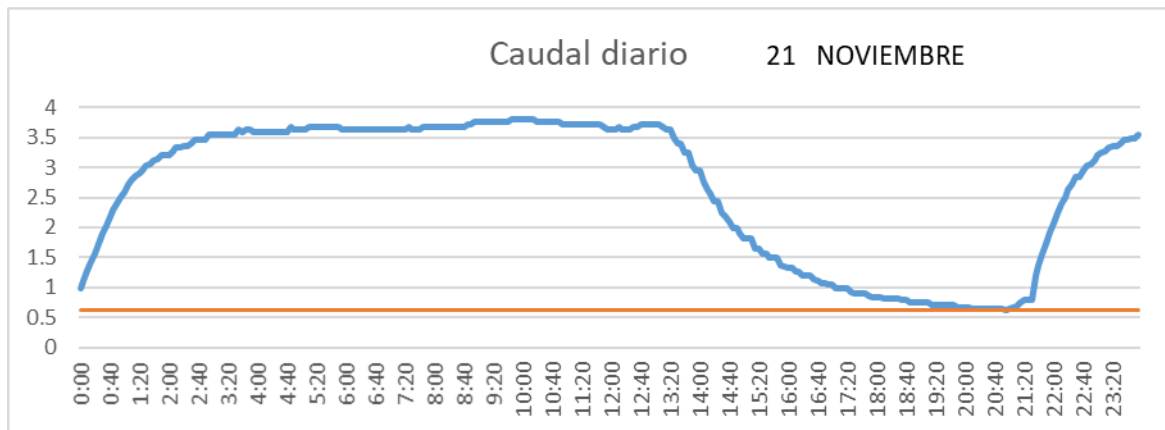
SAN LORENZO PARRILLA



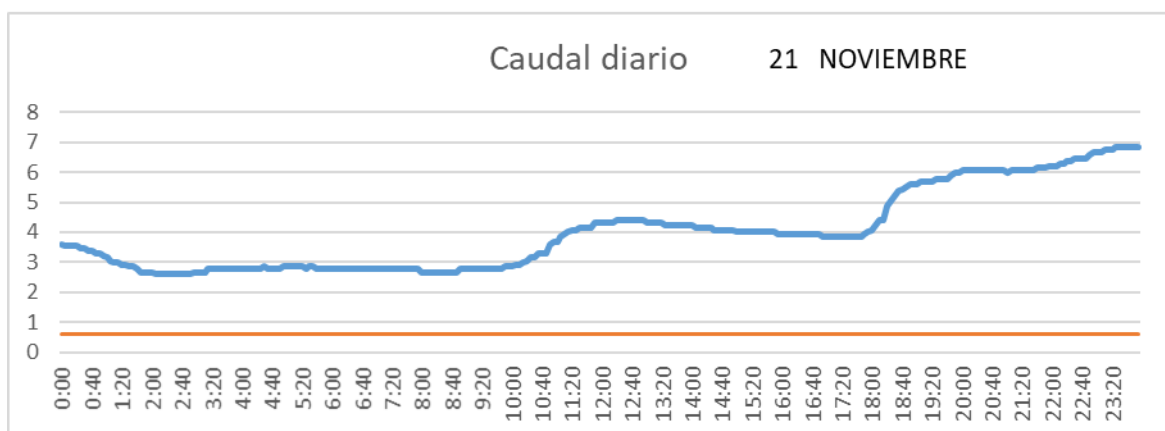
SALIDA TOBA



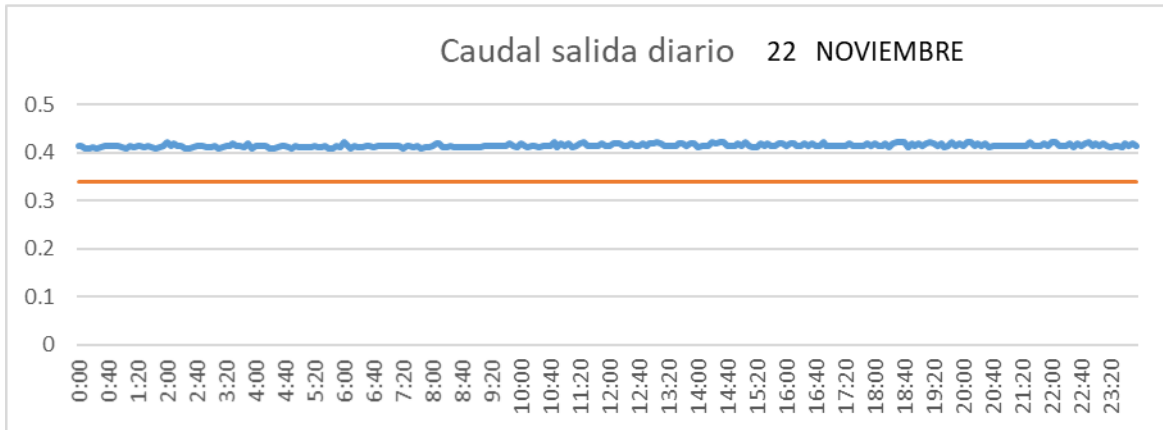
CUENCA



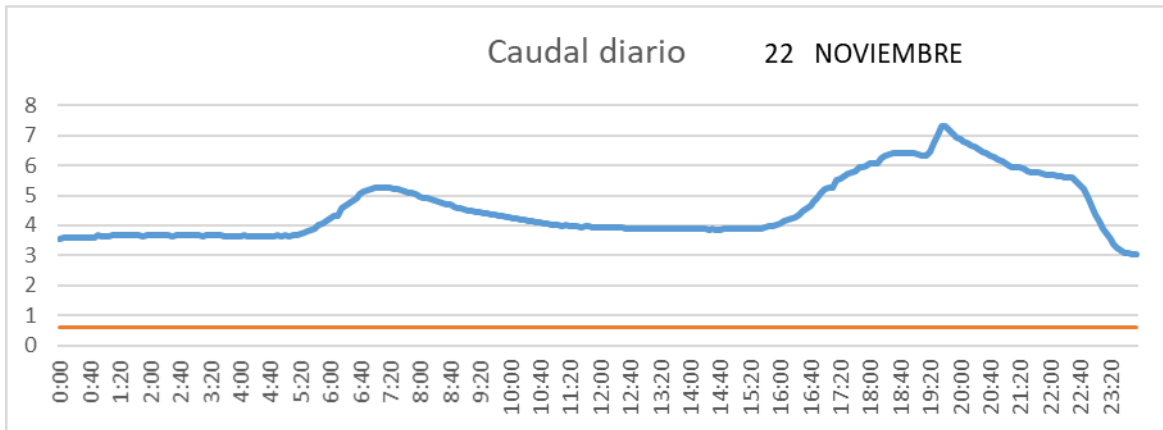
SAN LORENZO PARRILLA



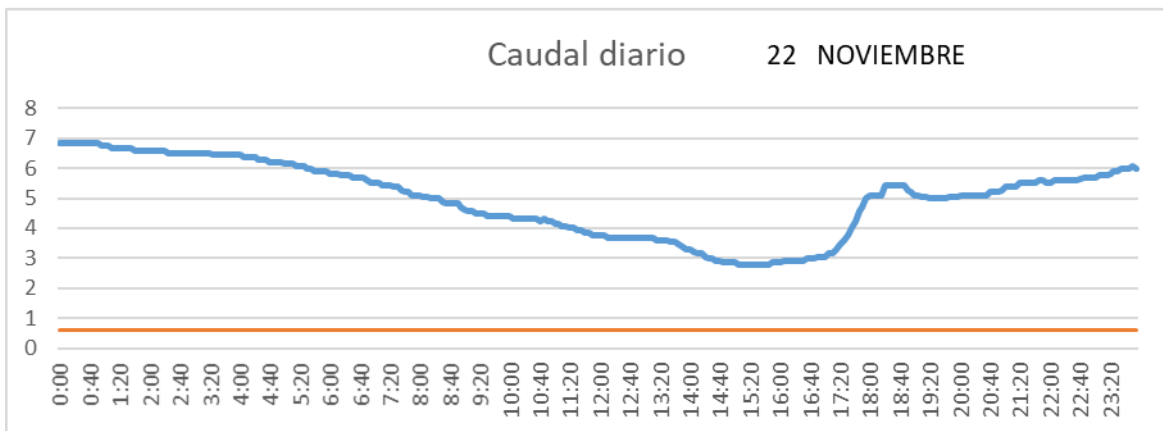
SALIDA TOBA



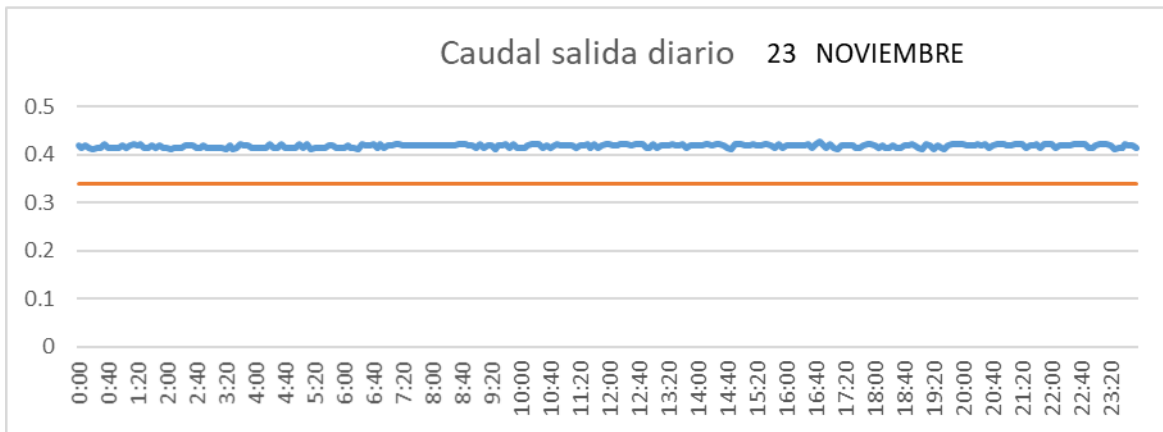
CUENCA



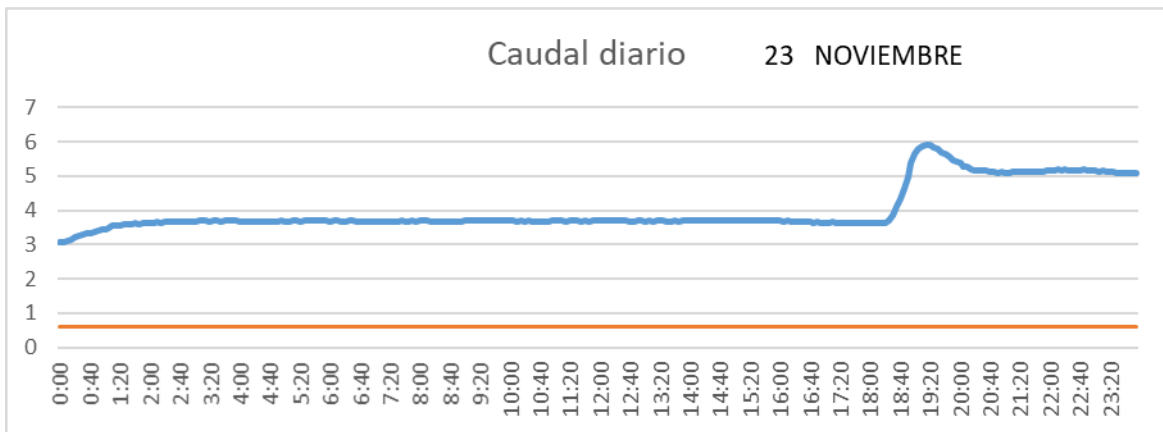
SAN LORENZO PARRILLA



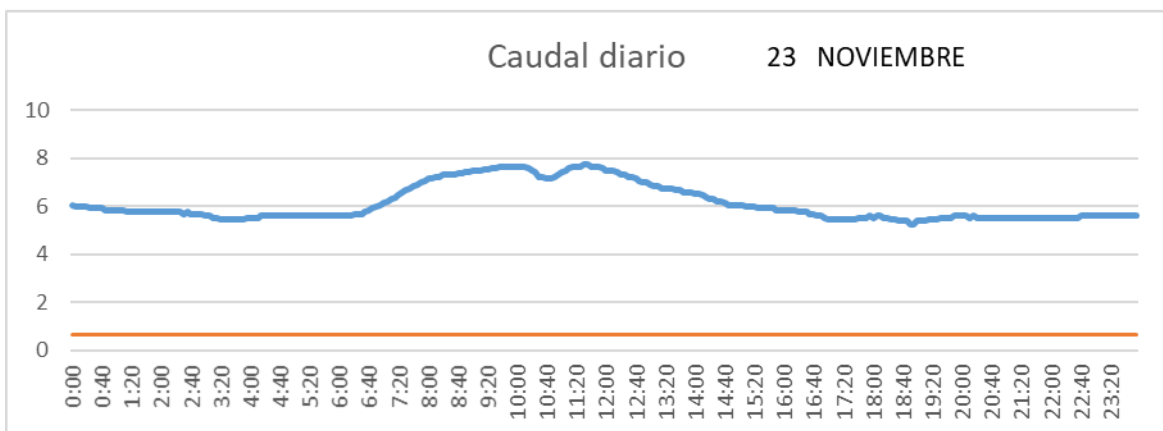
SALIDA TOBA



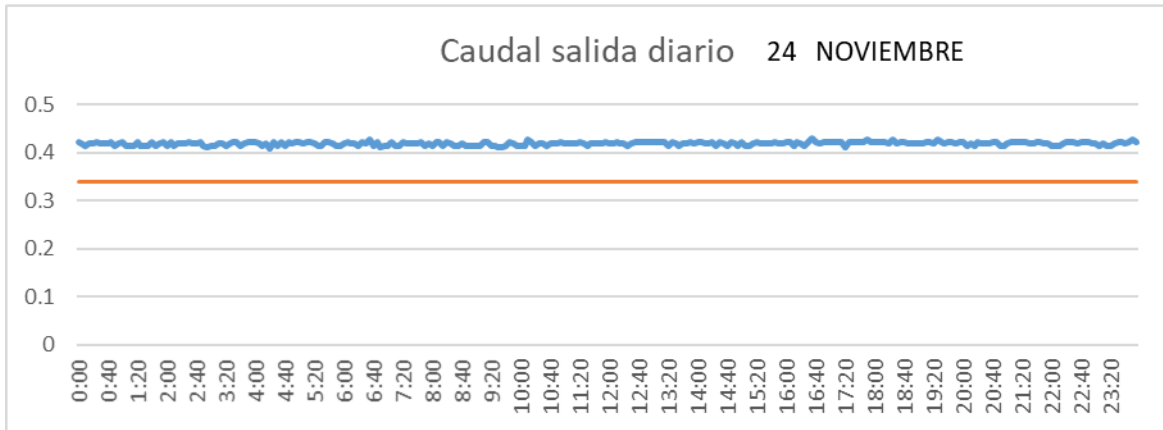
CUENCA



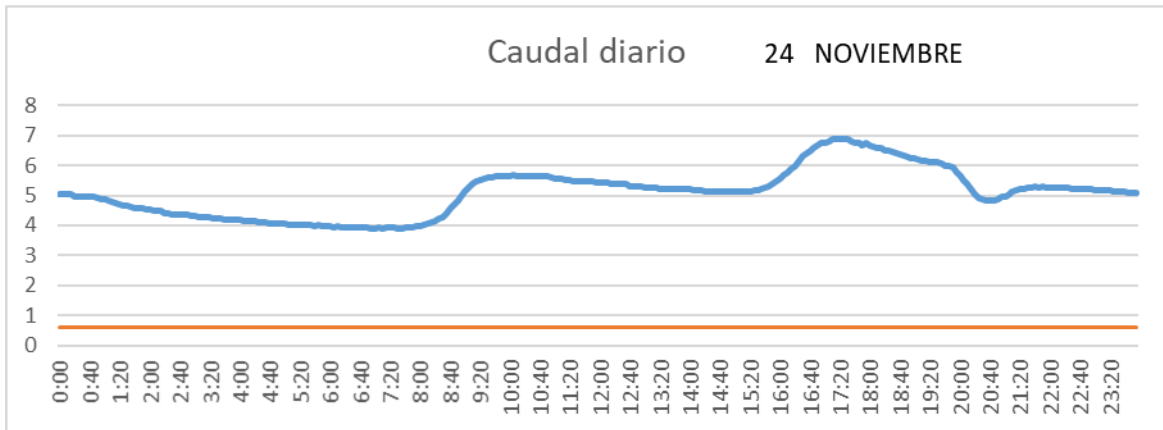
SAN LORENZO PARRILLA



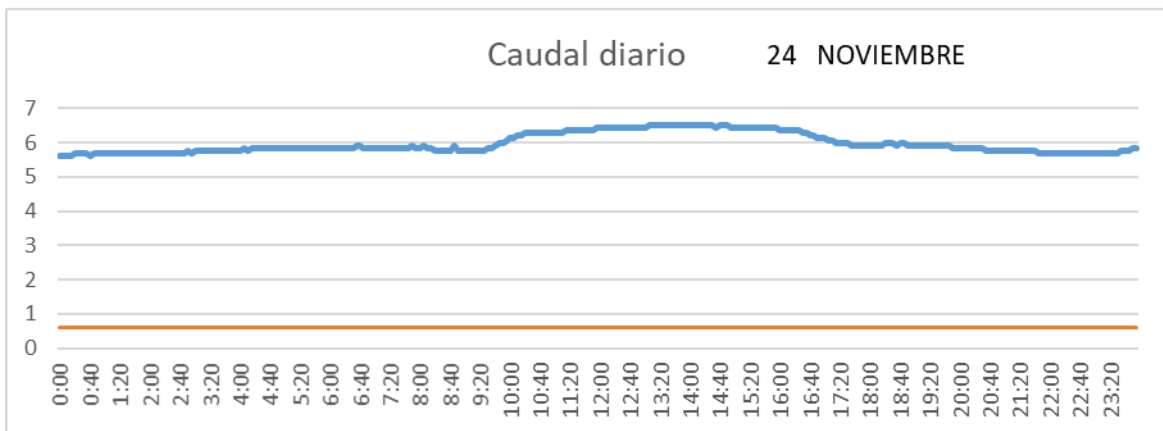
SALIDA TOBA



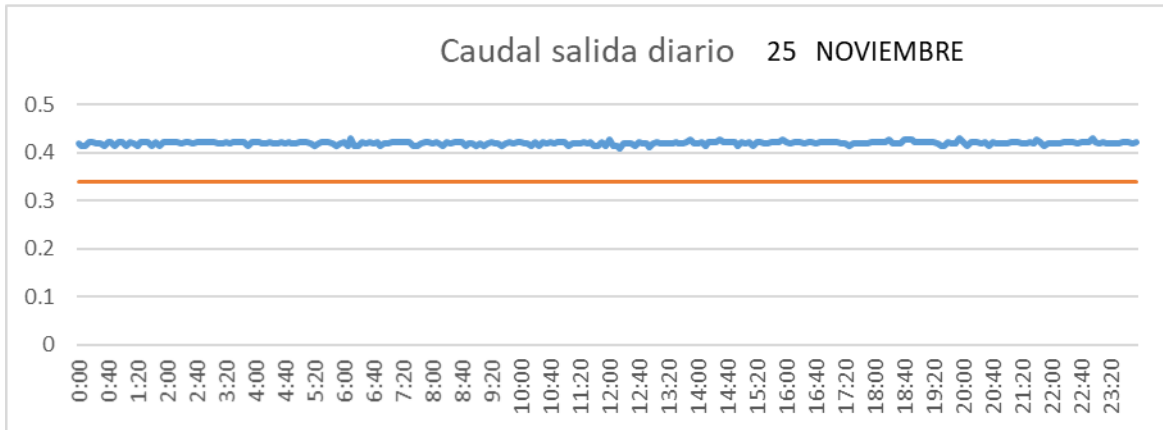
CUENCA



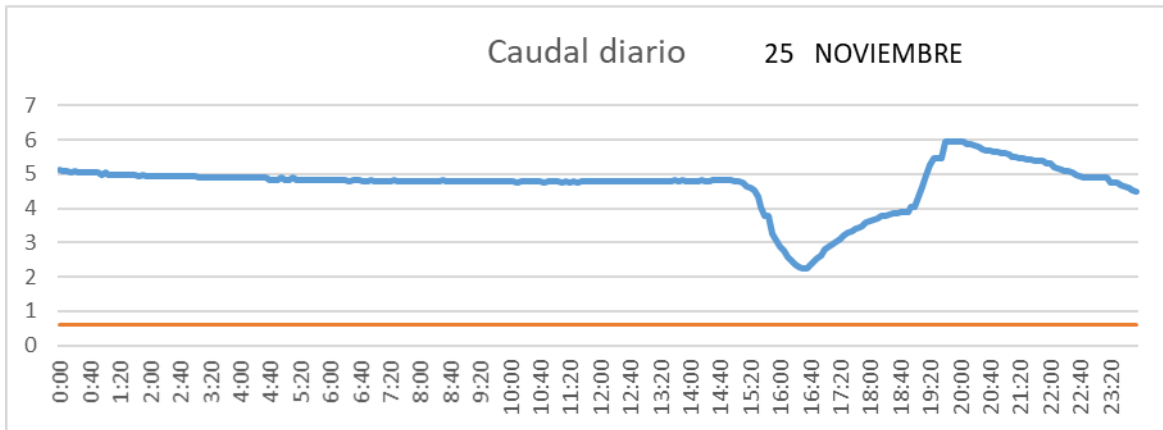
SAN LORENZO PARRILLA



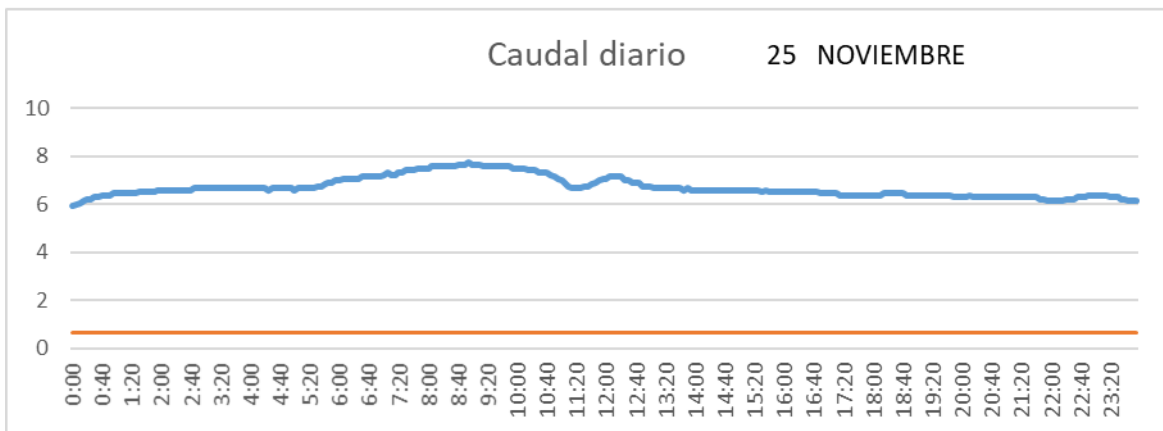
SALIDA TOBA



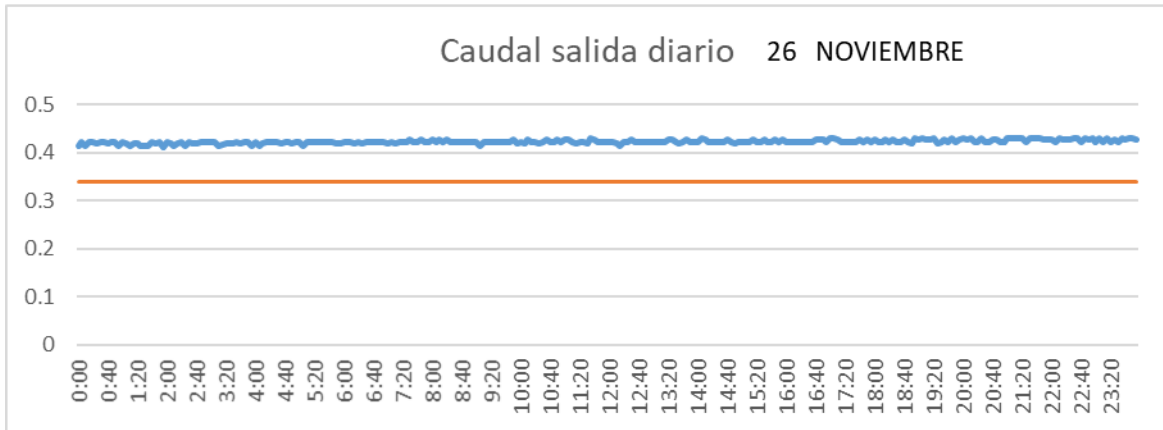
CUENCA



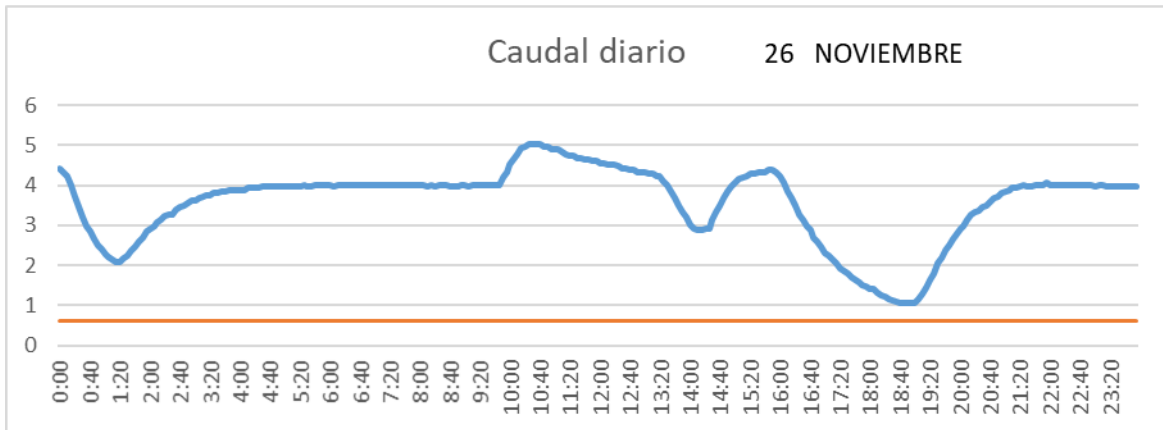
SAN LORENZO PARRILLA



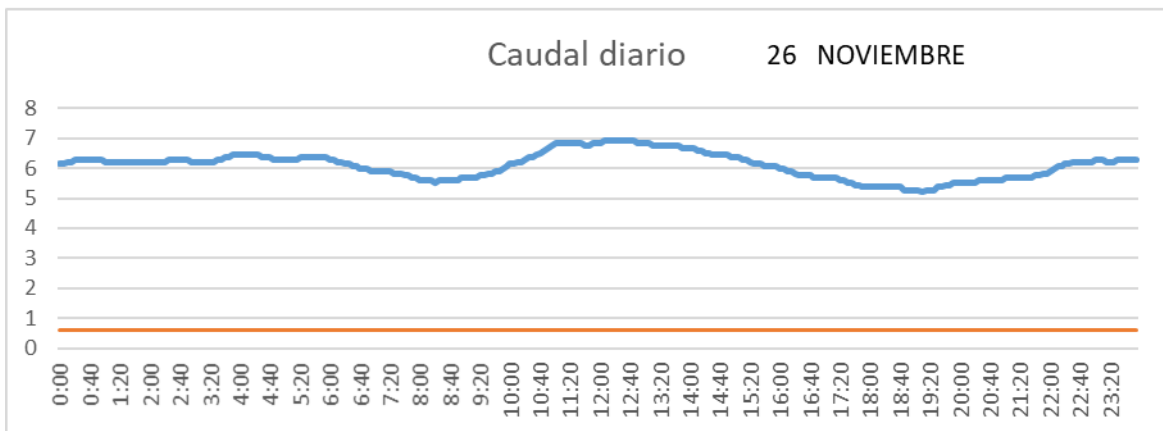
SALIDA TOBA



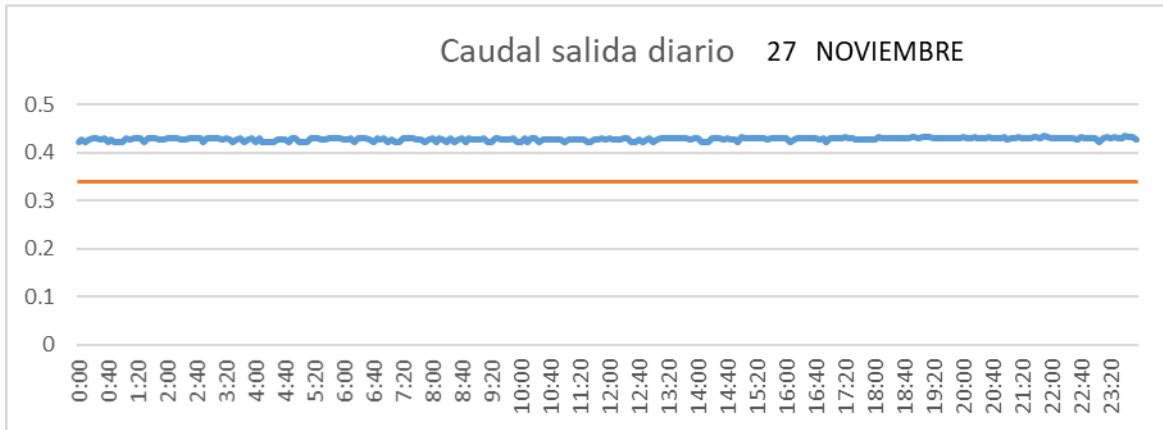
CUENCA



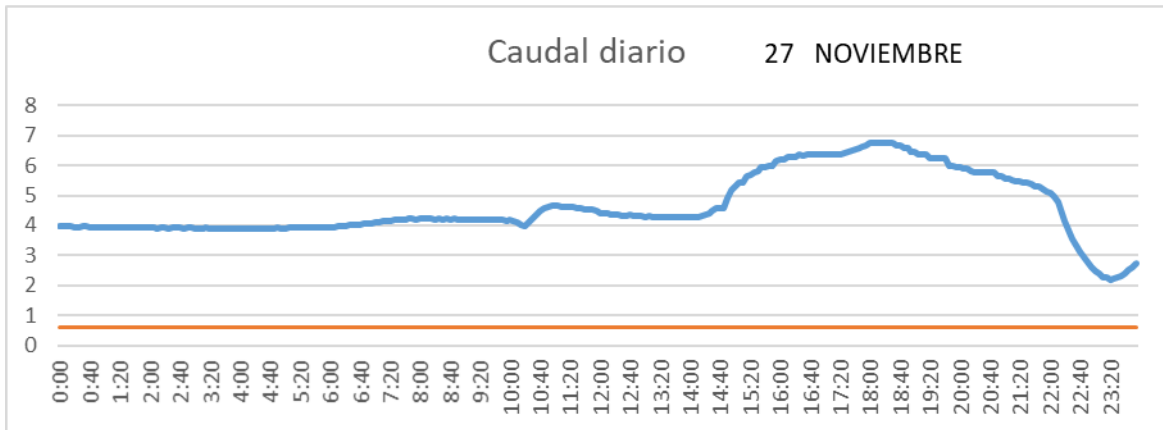
SAN LORENZO PARRILLA



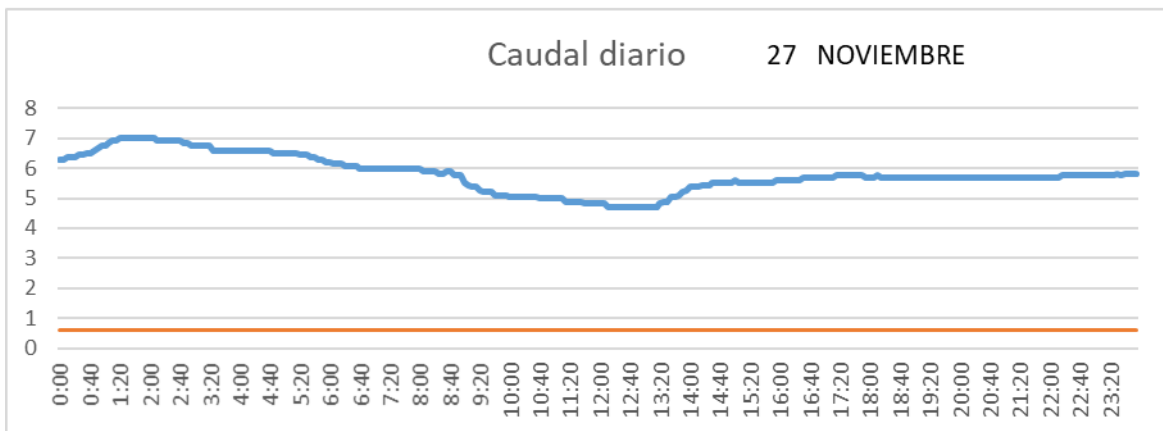
SALIDA TOBA



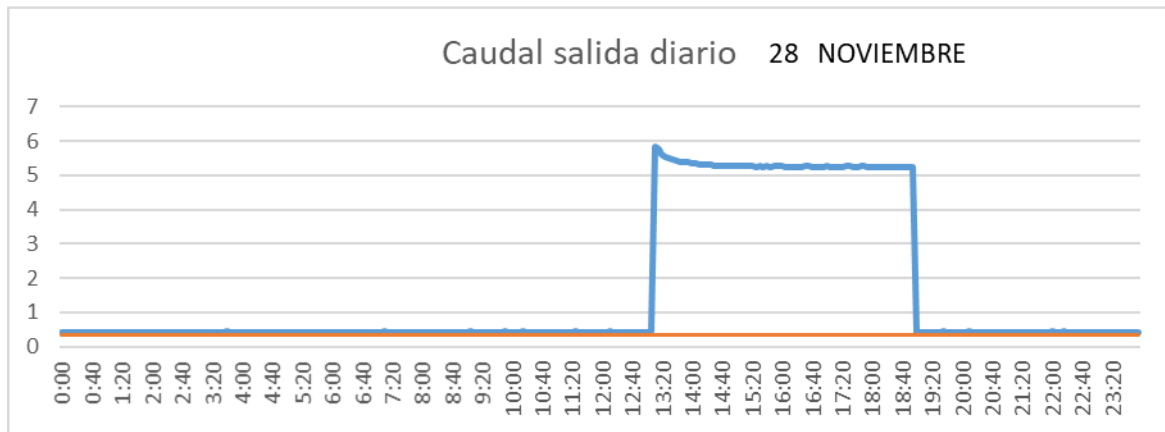
CUENCA



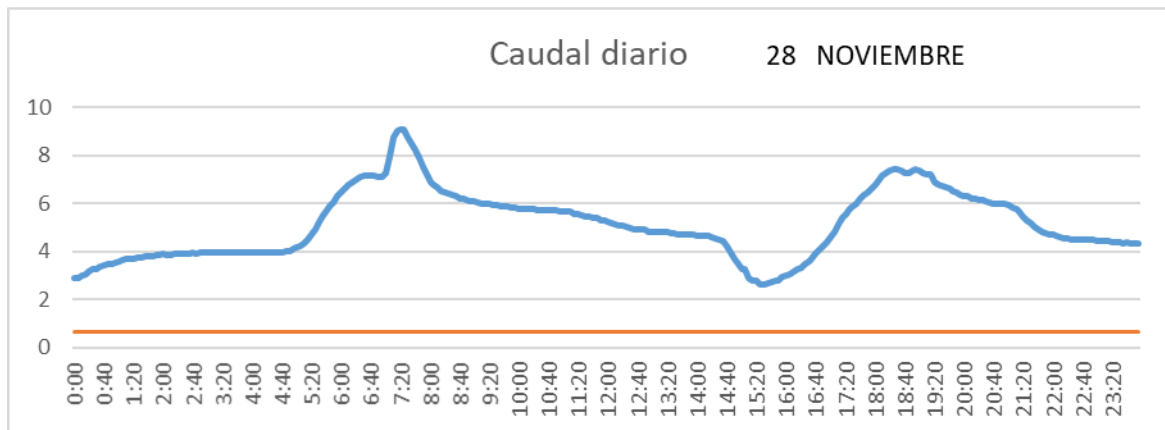
SAN LORENZO PARRILLA



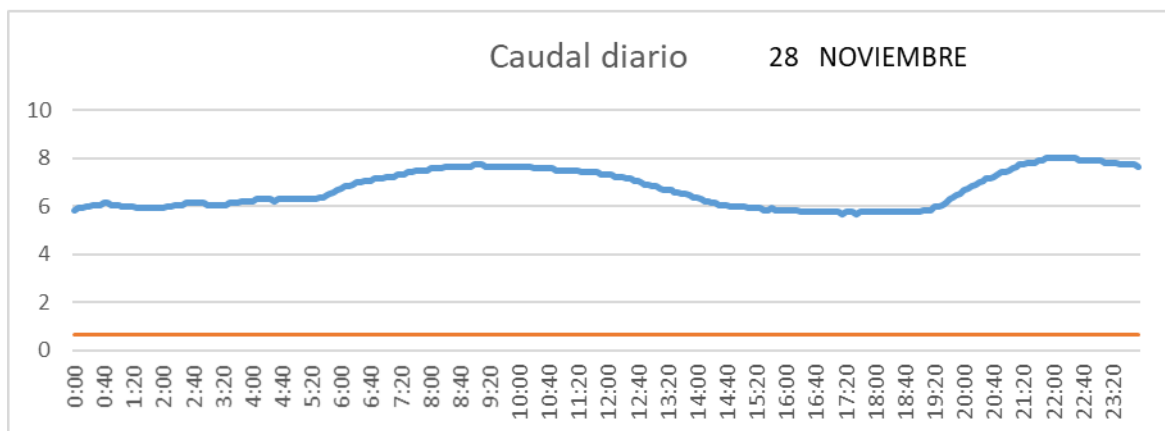
SALIDA TOBA



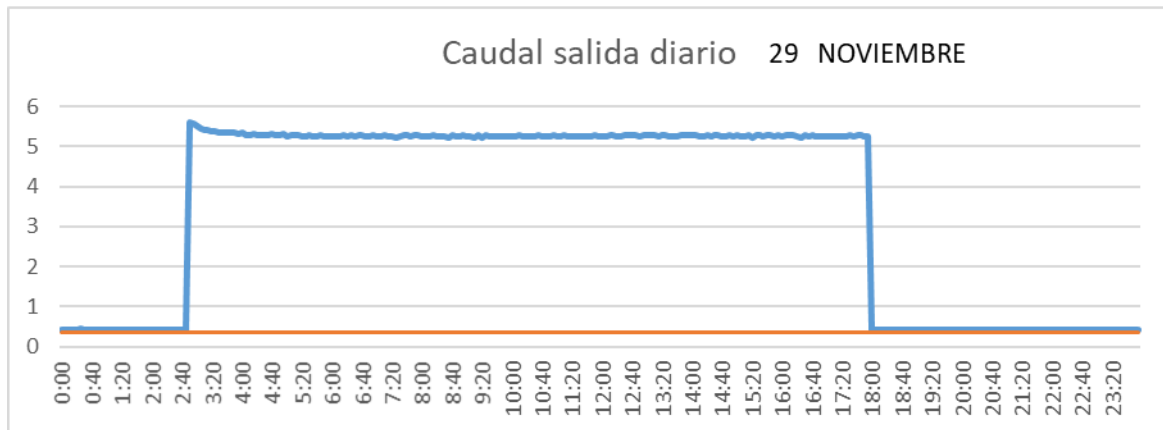
CUENCA



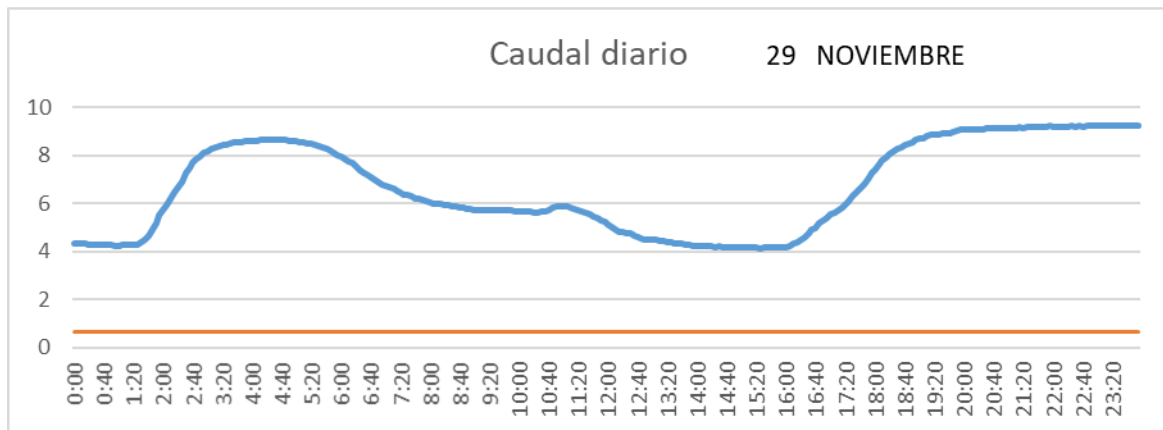
SAN LORENZO PARRILLA



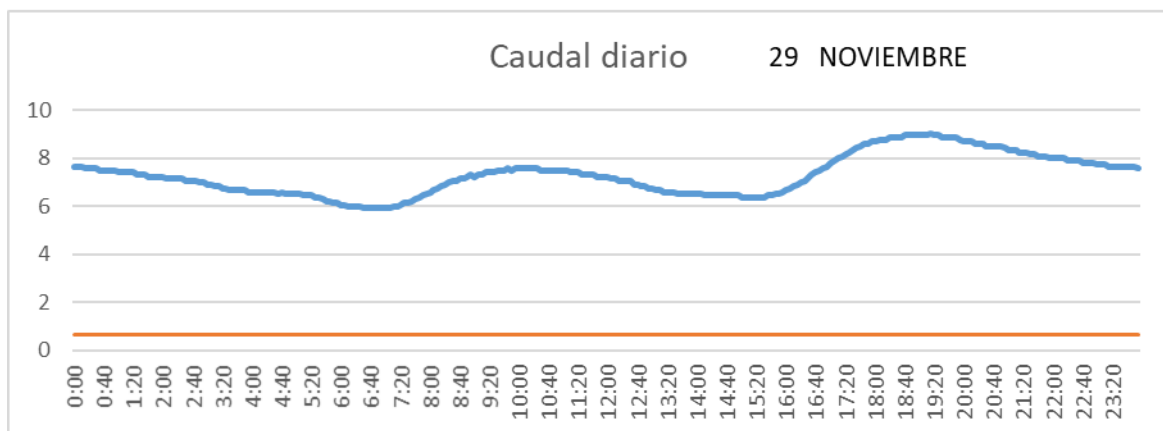
SALIDA TOBA



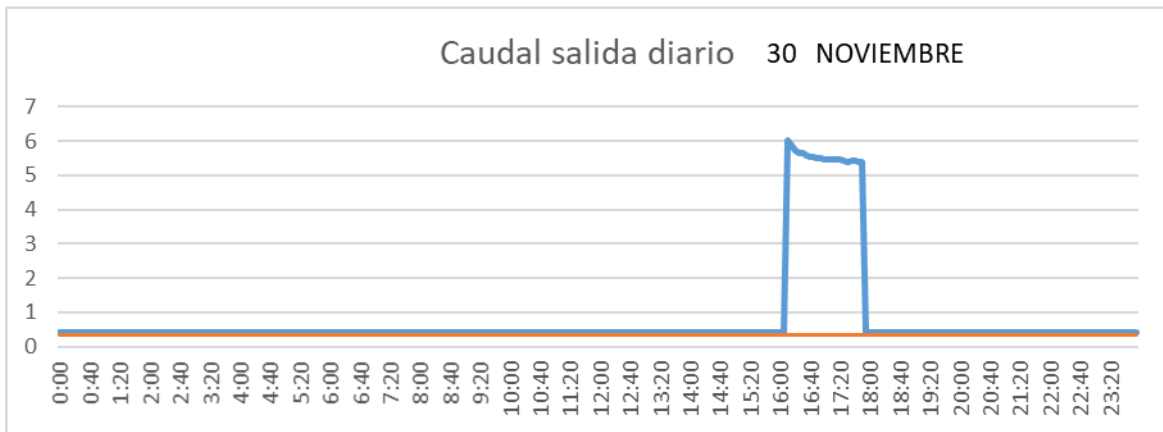
CUENCA



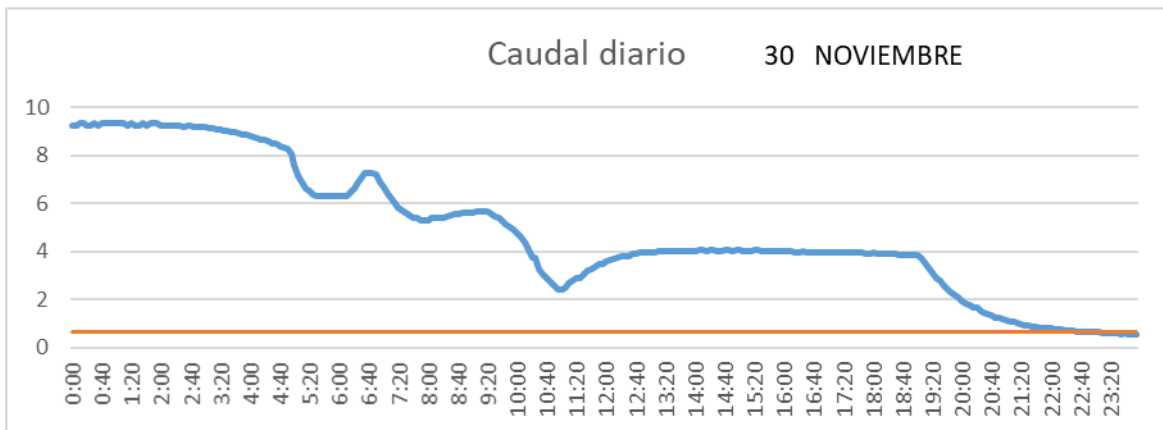
SAN LORENZO PARRILLA



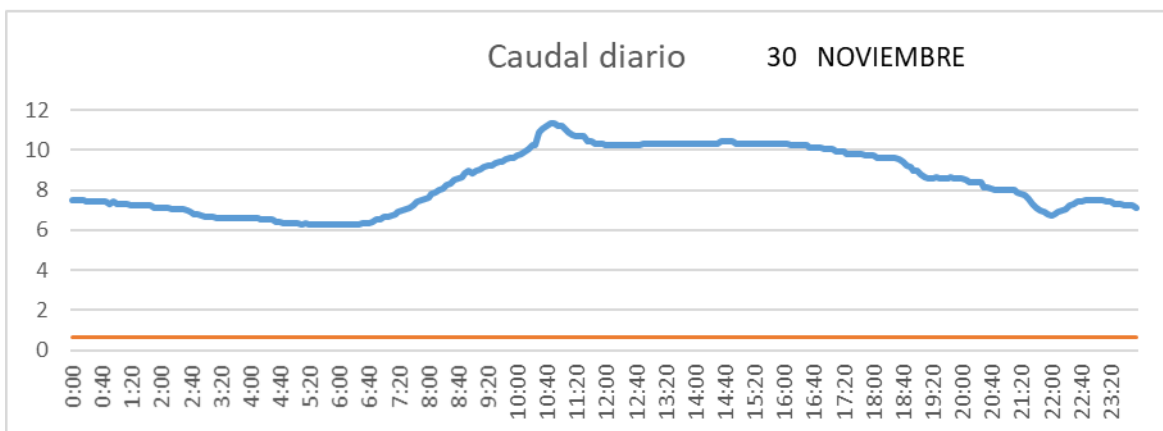
SALIDA TOBA



CUENCA

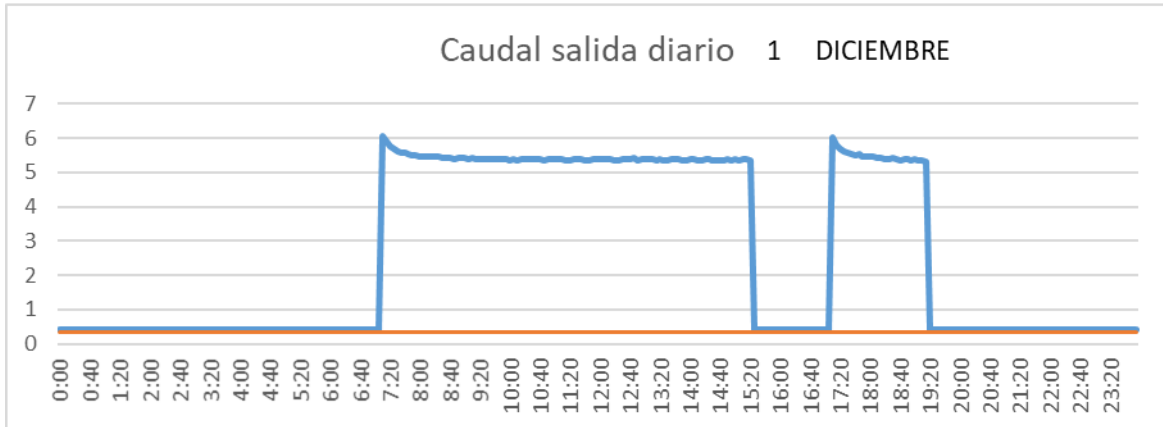


SAN LORENZO PARRILLA

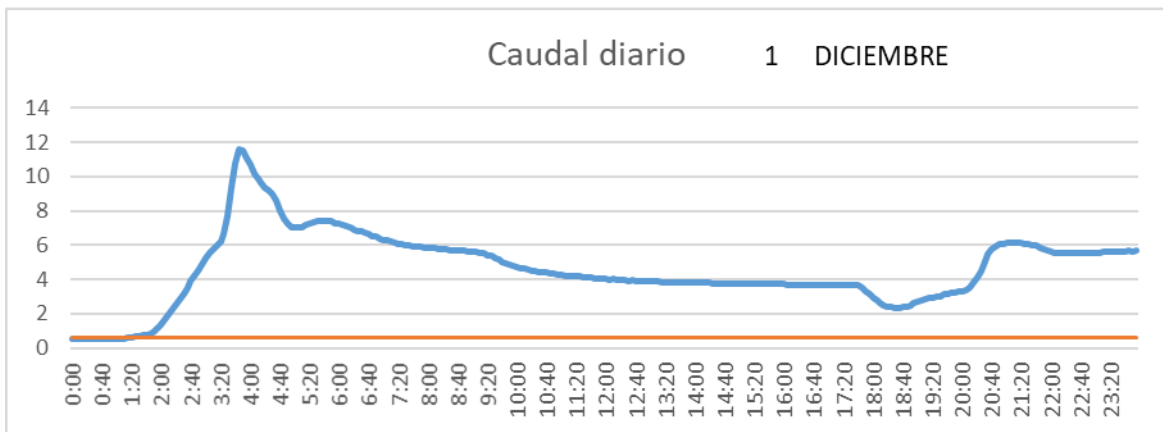


2.2.12 Diciembre

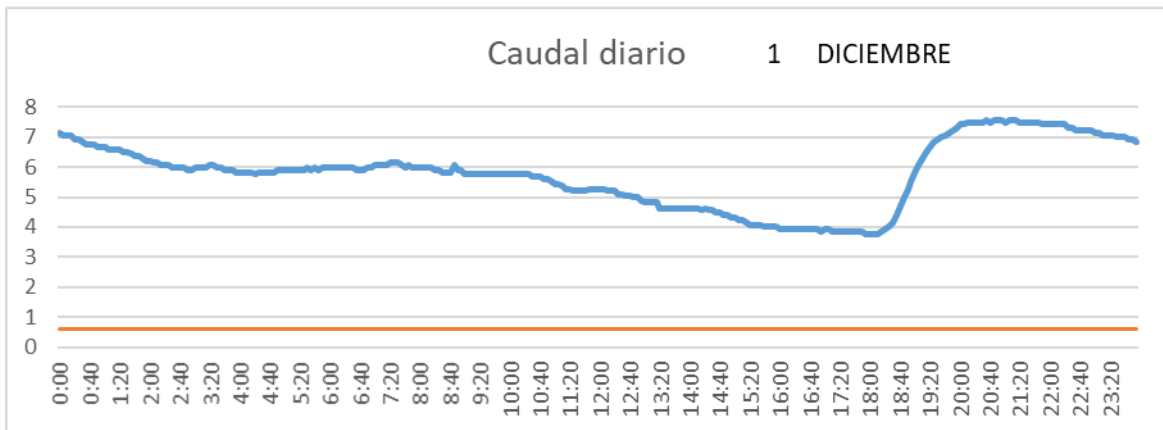
SALIDA TOBA



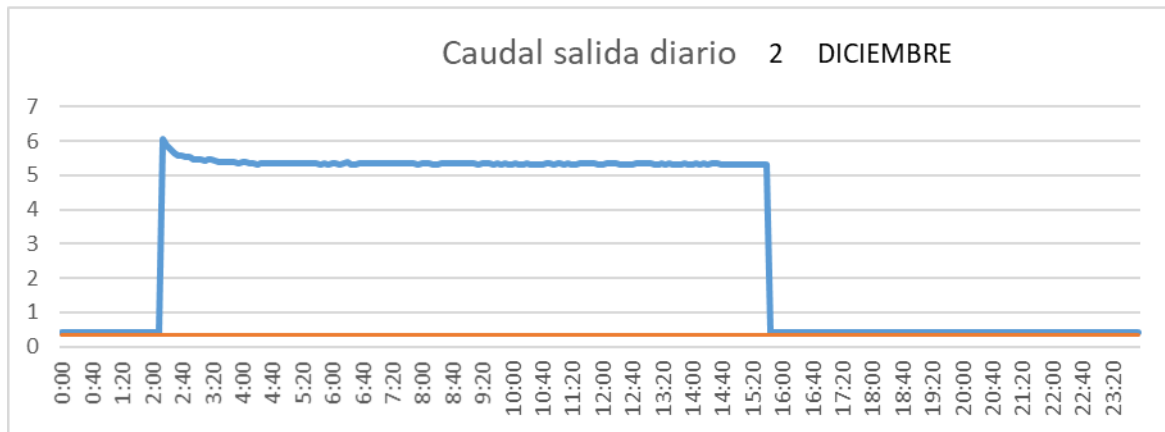
CUENCA



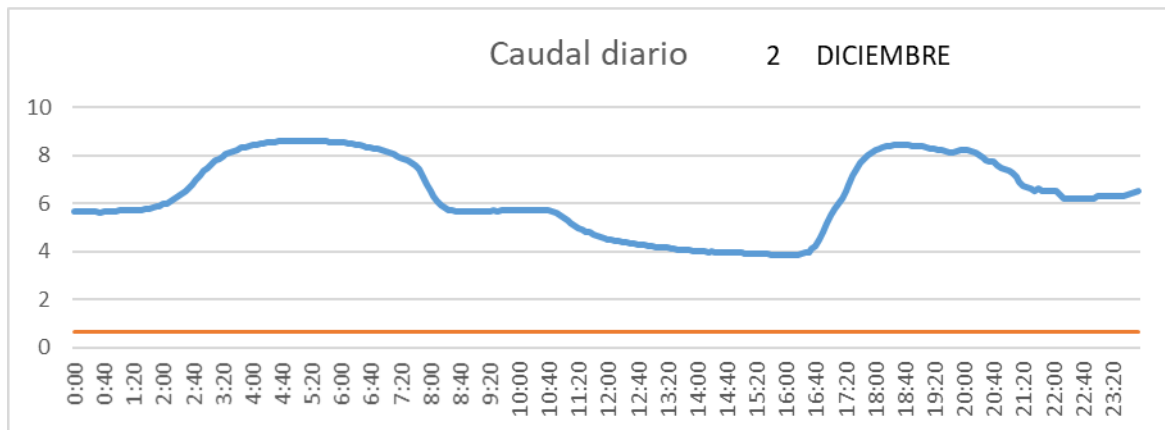
SAN LORENZO PARRILLA



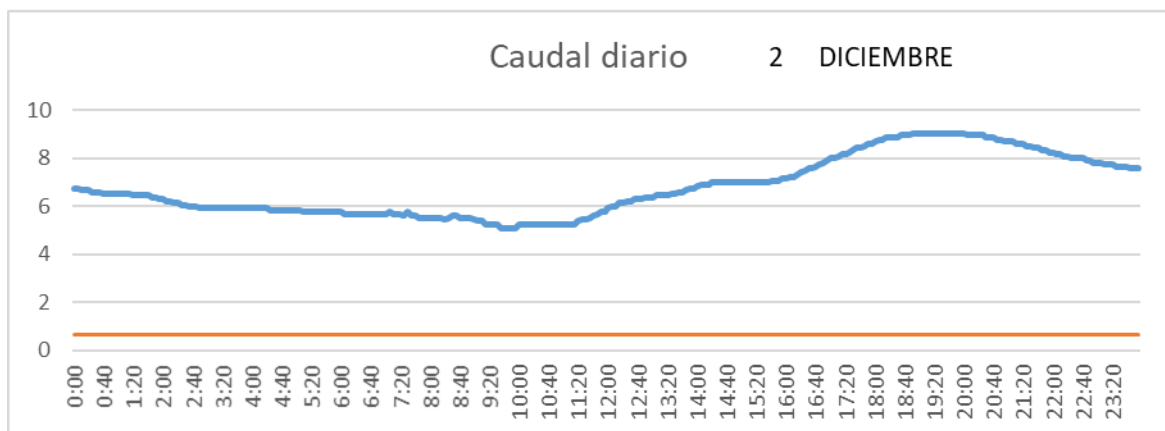
SALIDA TOBA



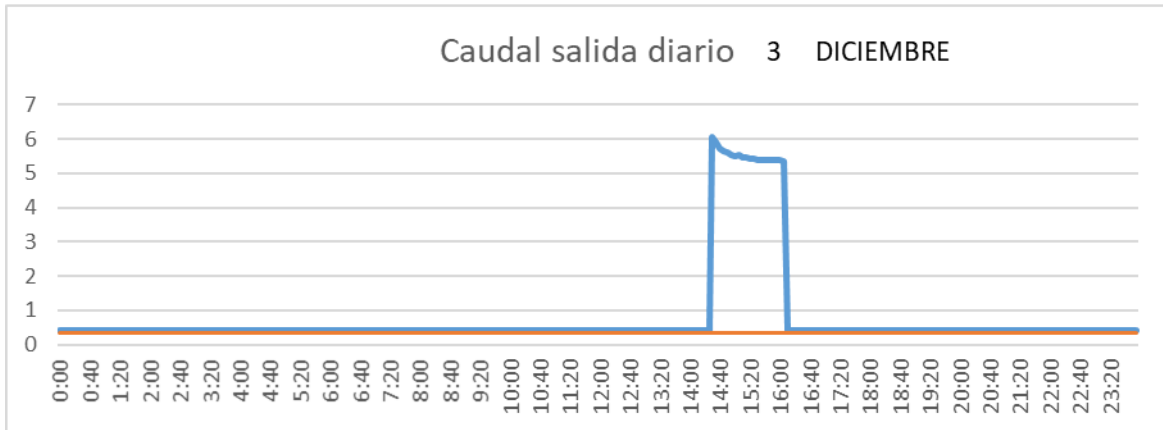
CUENCA



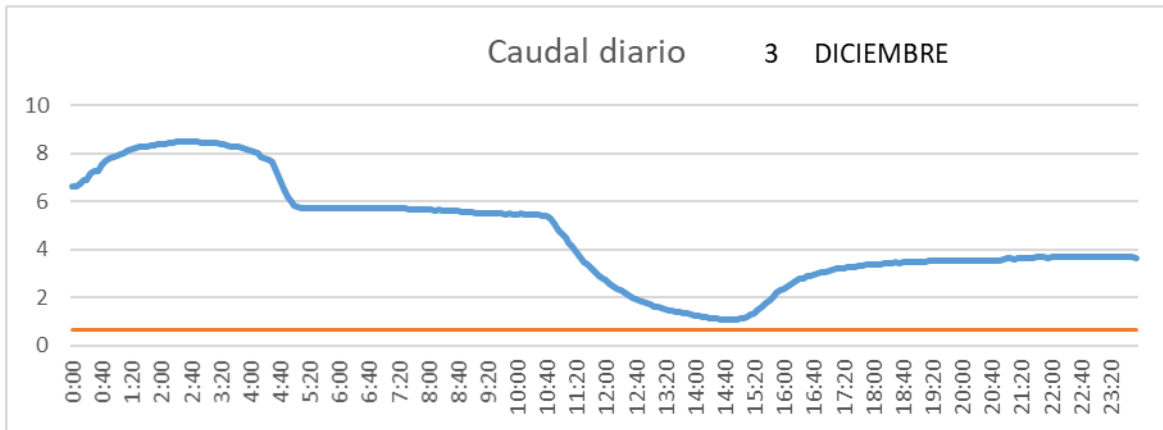
SAN LORENZO PARRILLA



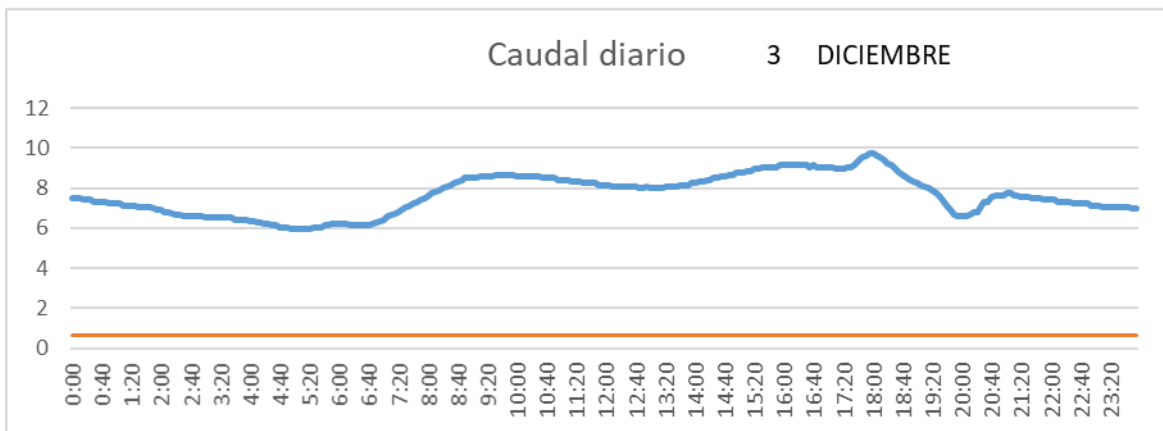
SALIDA TOBA



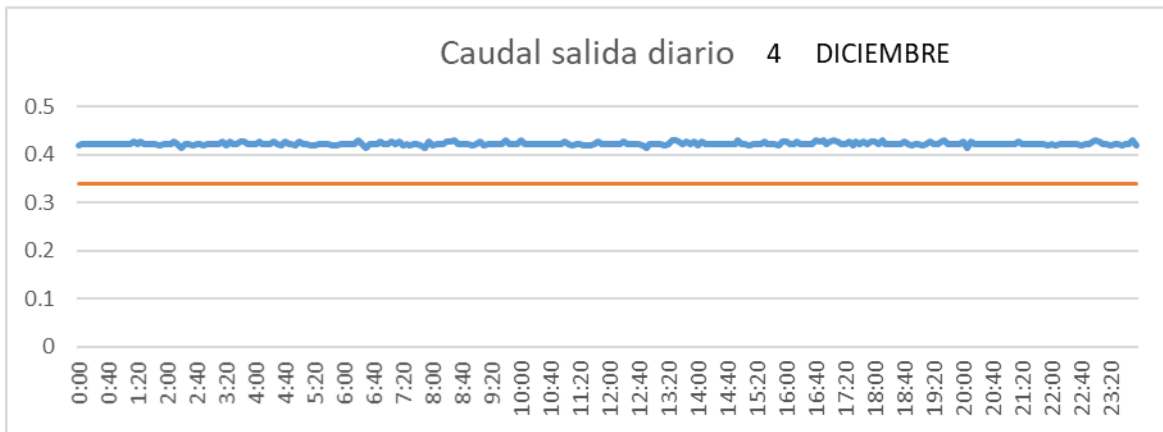
CUENCA



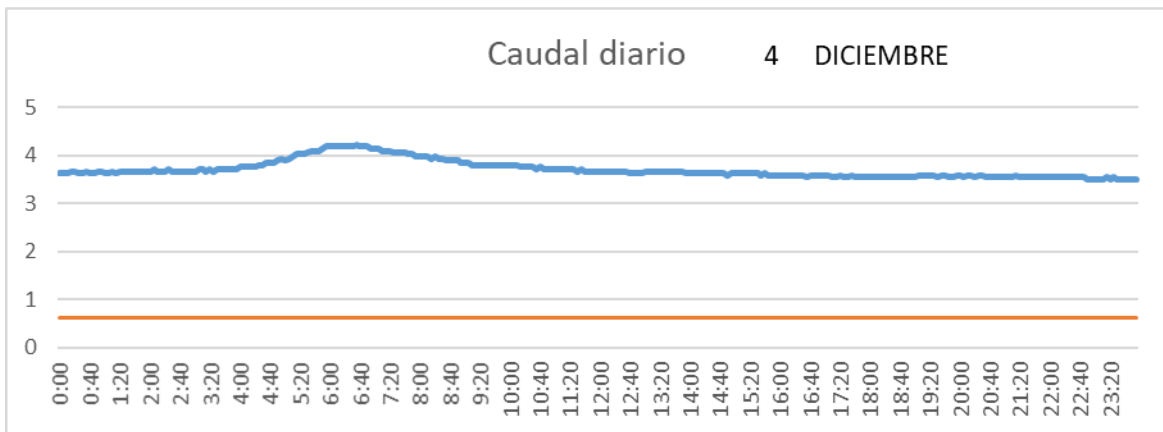
SAN LORENZO PARRILLA



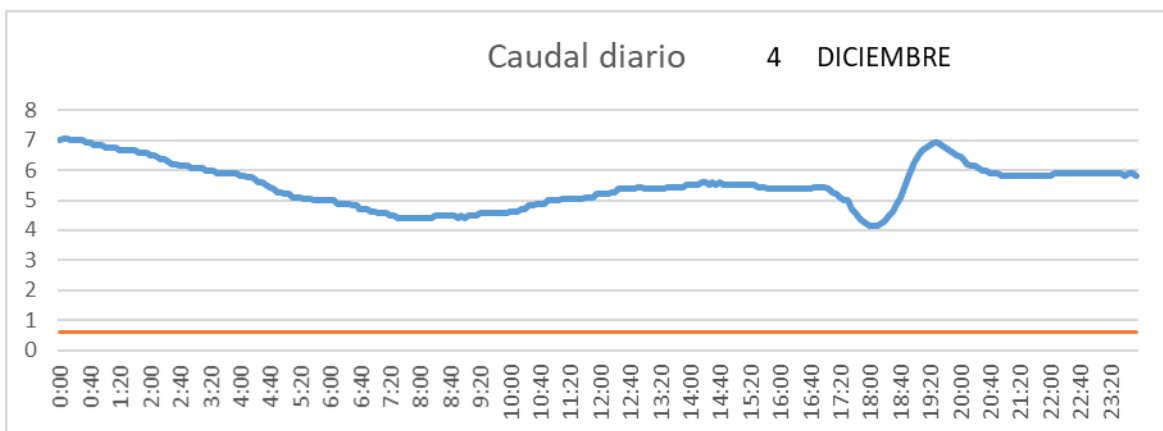
SALIDA TOBA



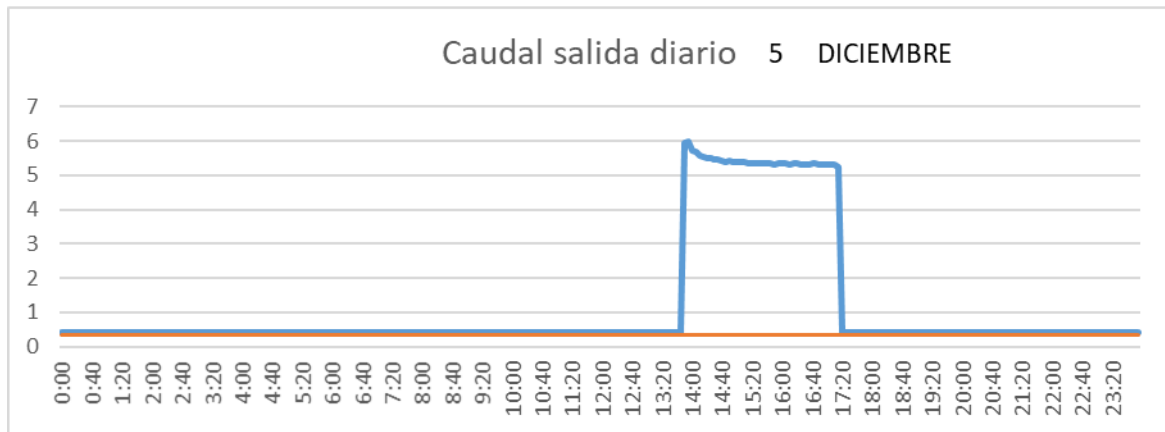
CUENCA



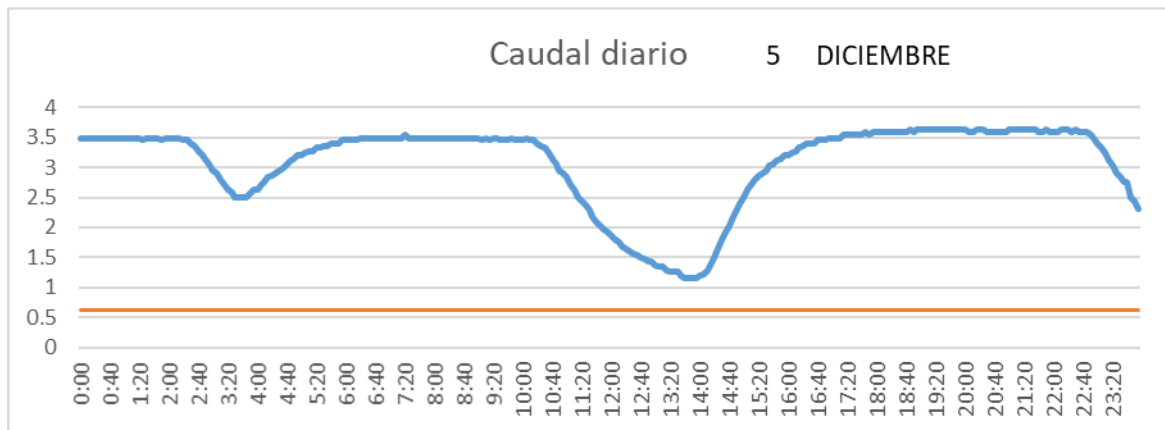
SAN LORENZO PARRILLA



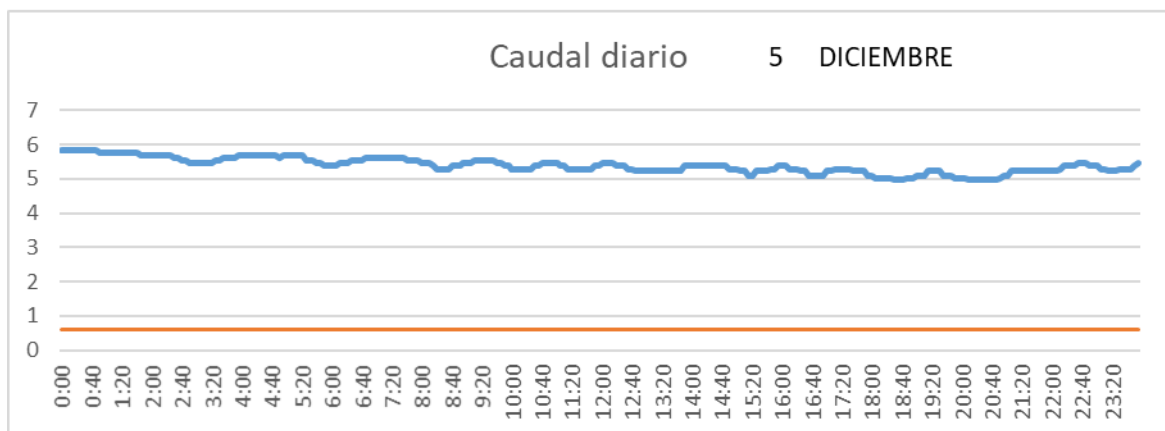
SALIDA TOBA



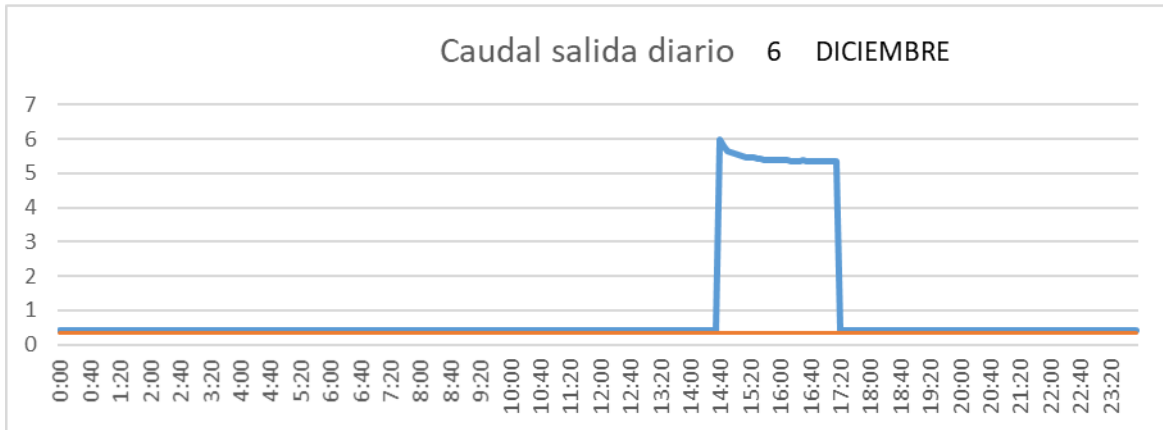
CUENCA



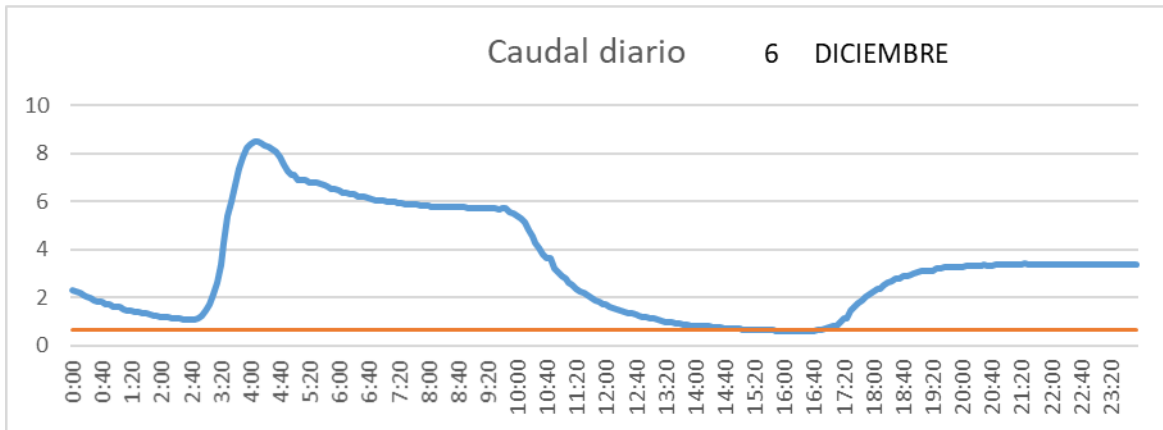
SAN LORENZO PARRILLA



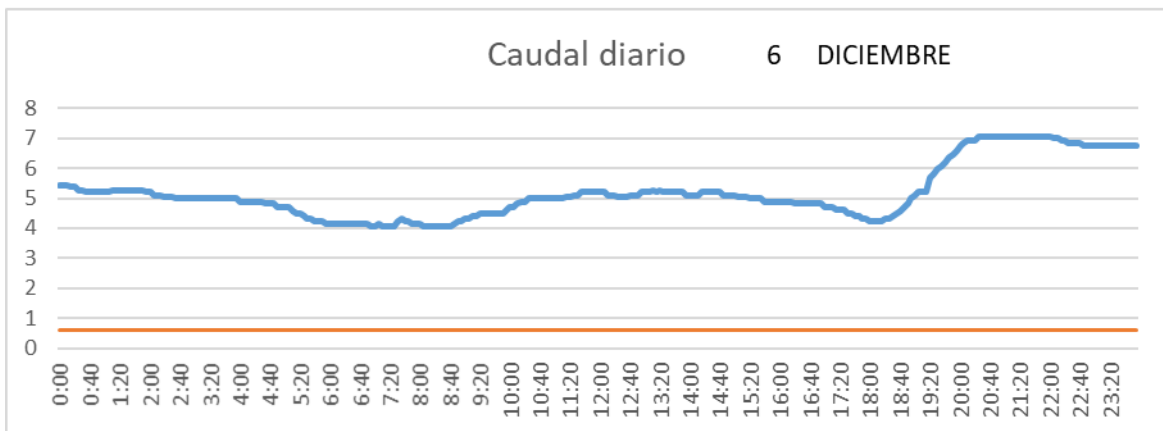
SALIDA TOBA



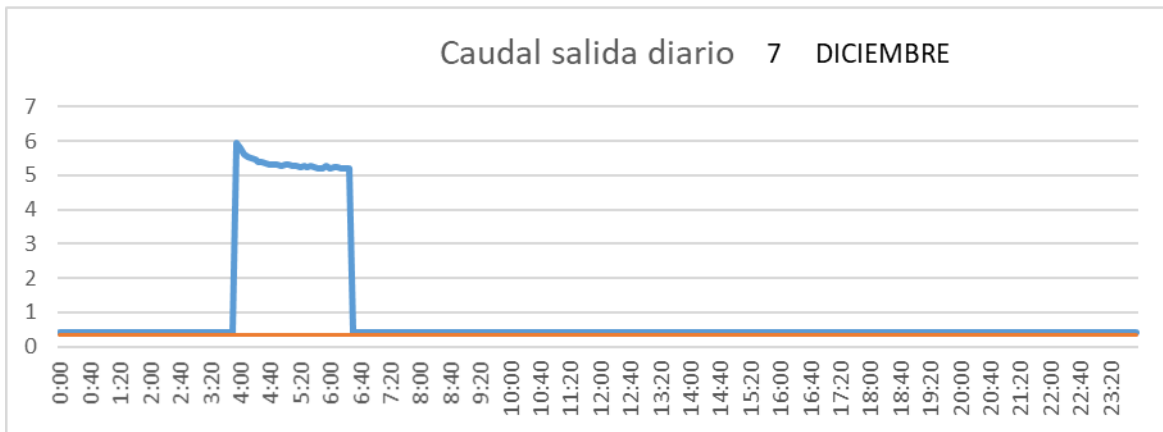
CUENCA



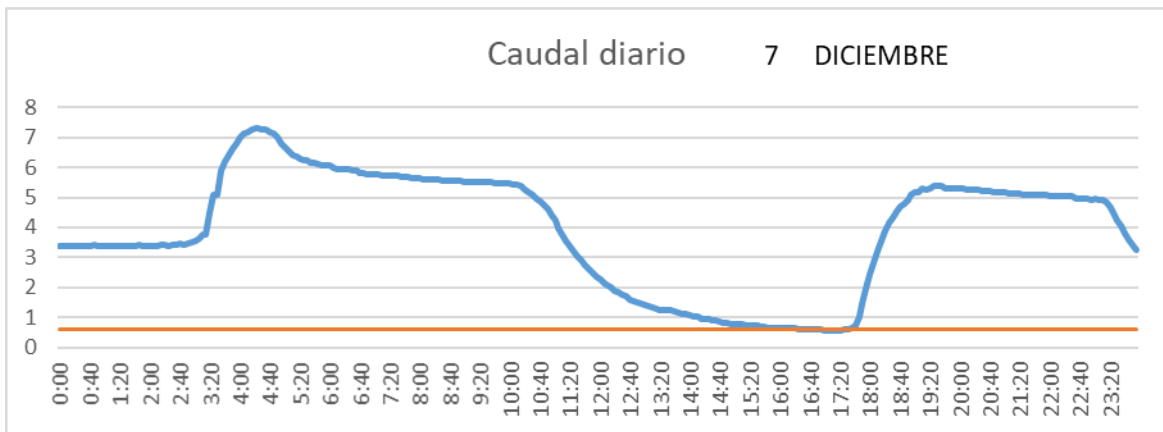
SAN LORENZO PARRILLA



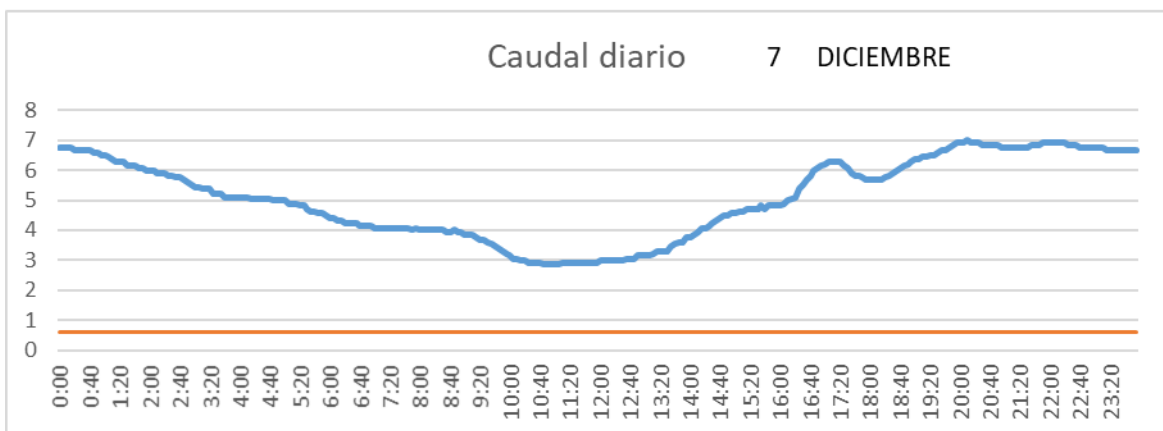
SALIDA TOBA



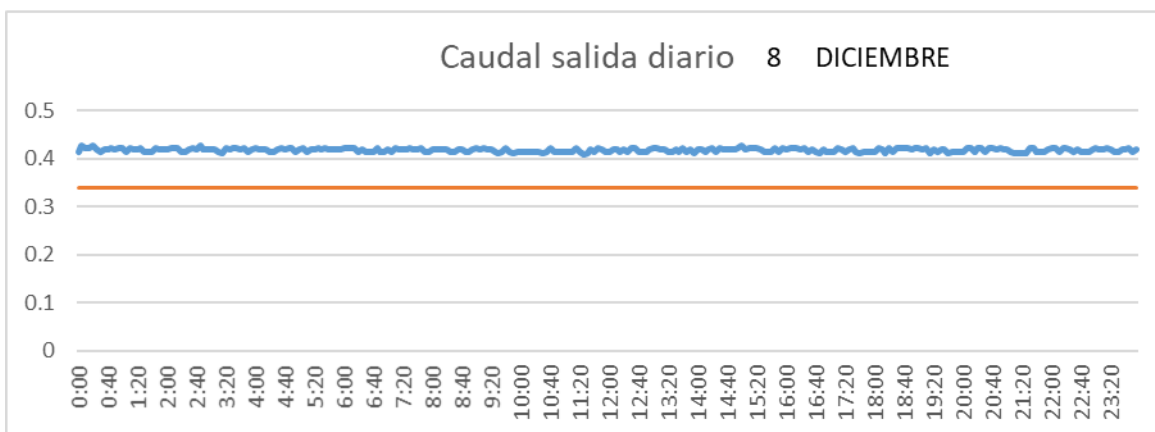
CUENCA



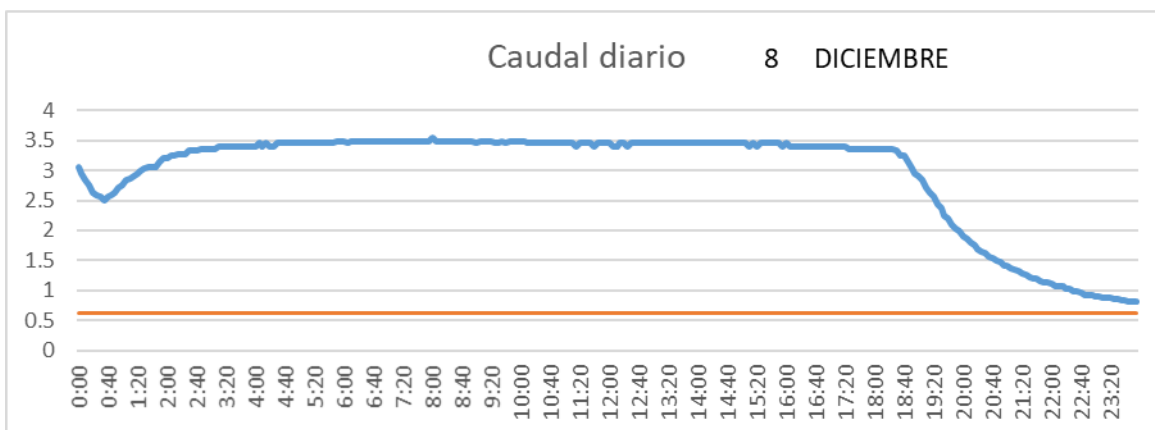
SAN LORENZO PARRILLA



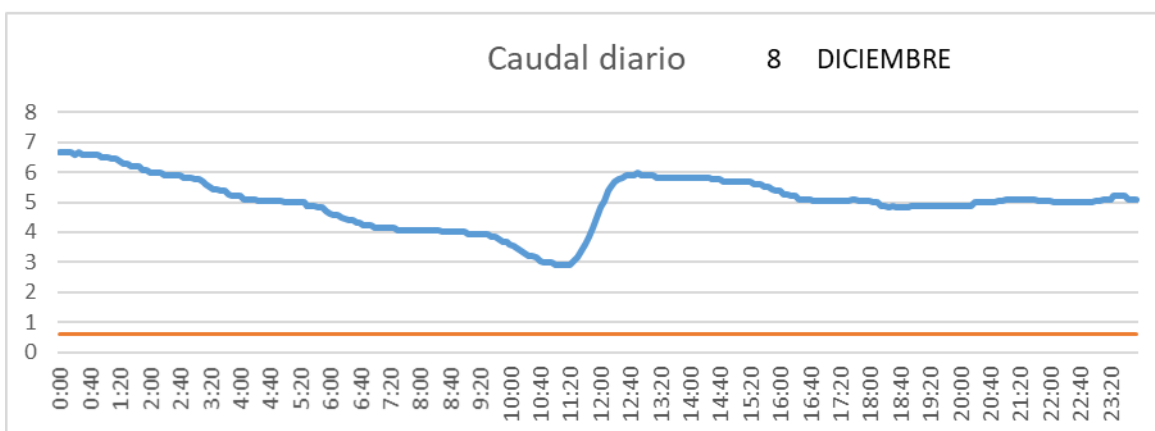
SALIDA TOBA



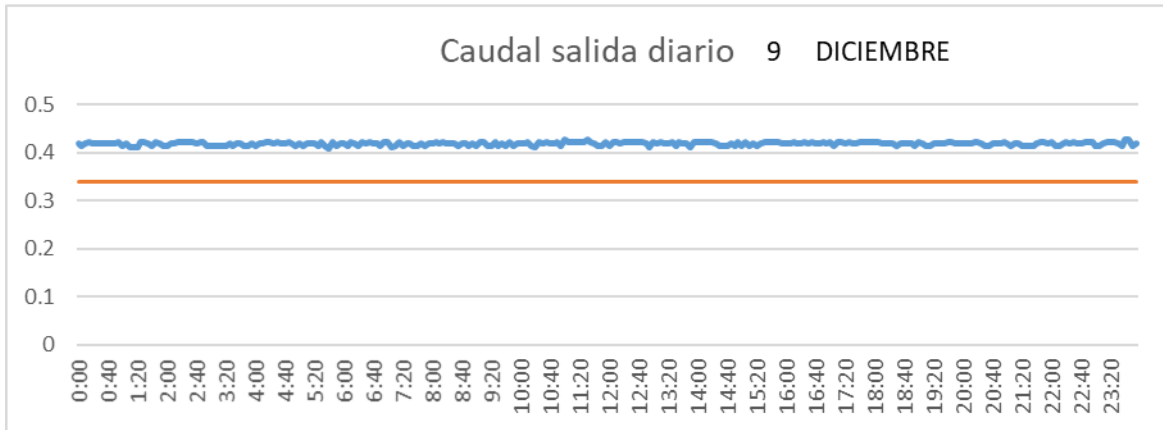
CUENCA



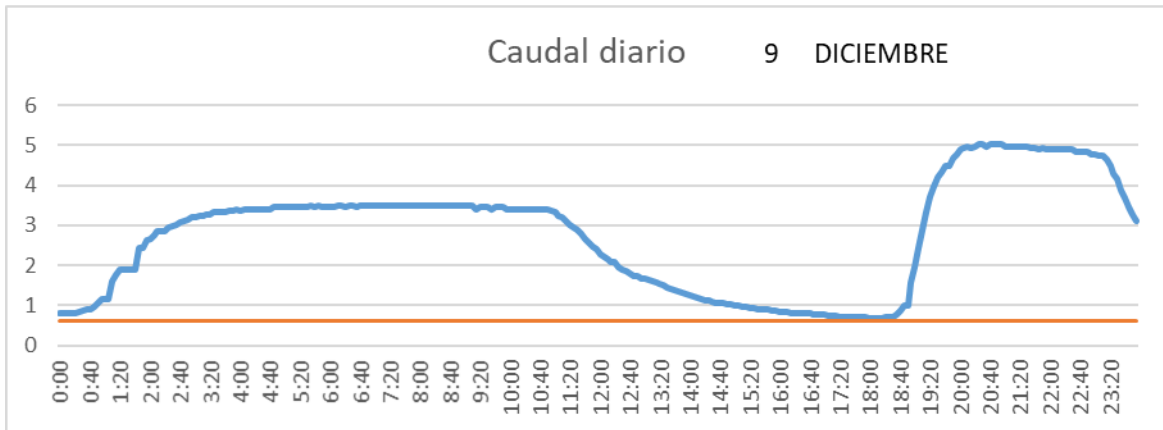
SAN LORENZO PARRILLA



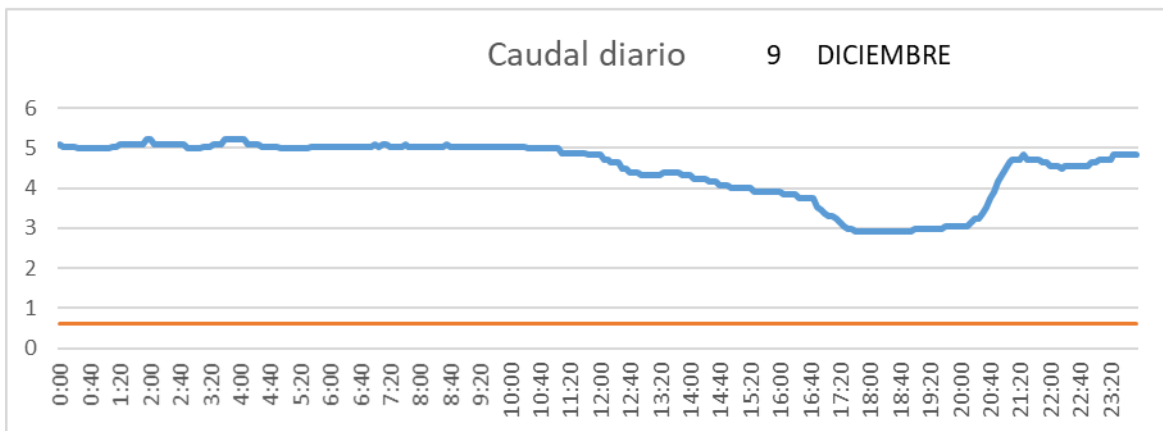
SALIDA TOBA



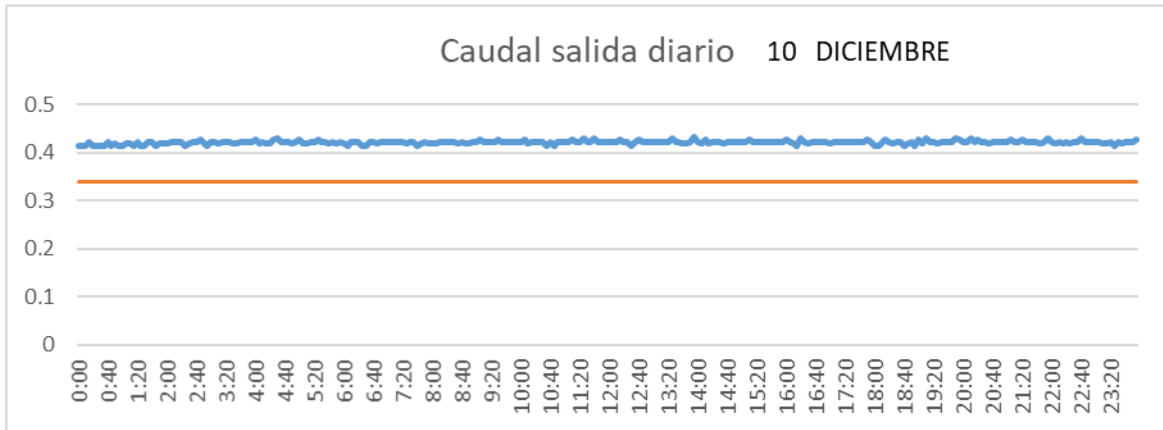
CUENCA



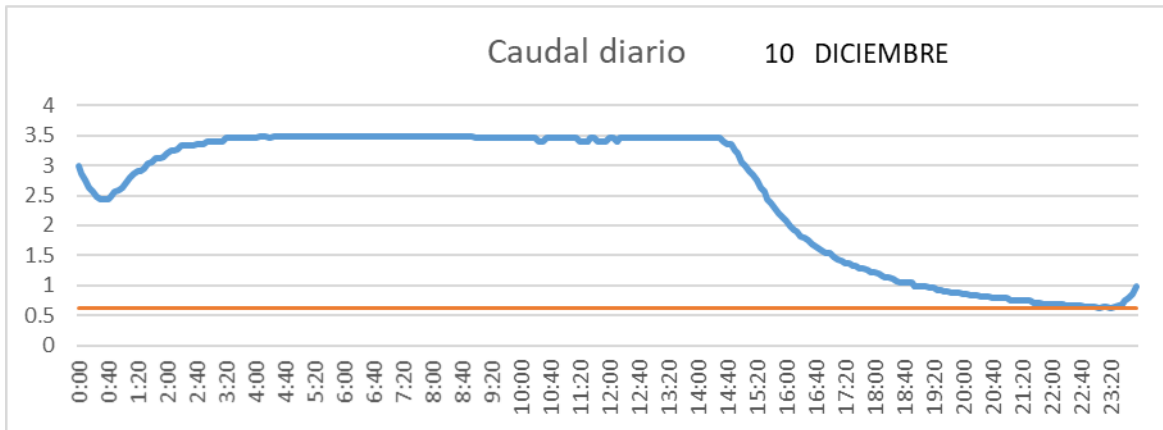
SAN LORENZO PARRILLA



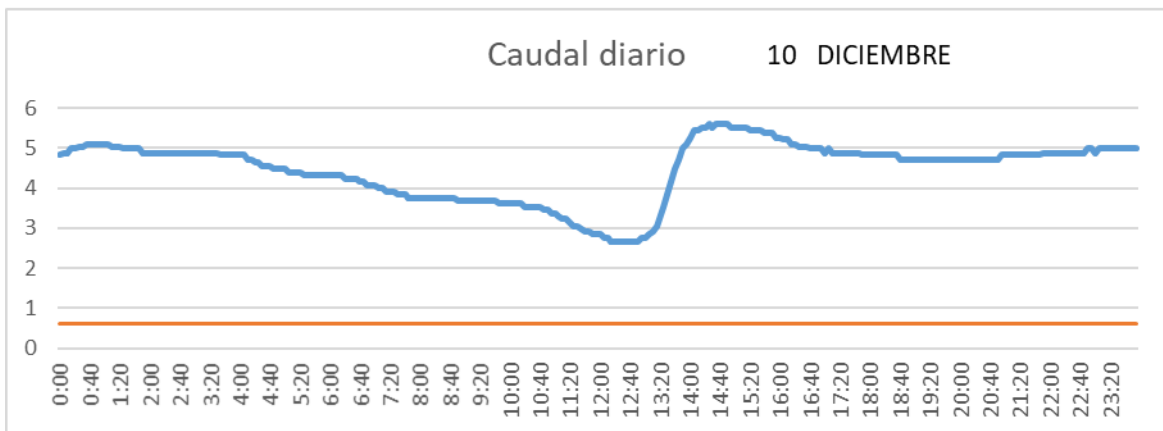
SALIDA TOBA



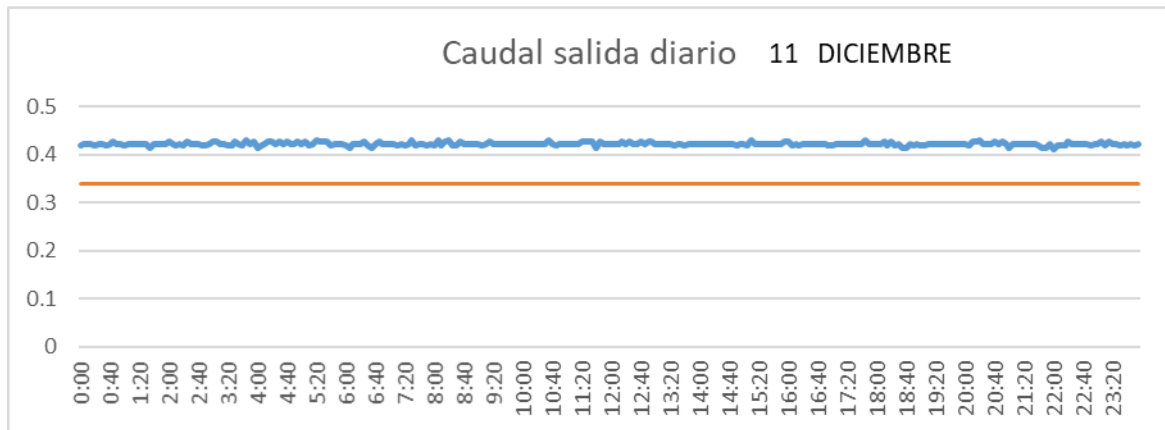
CUENCA



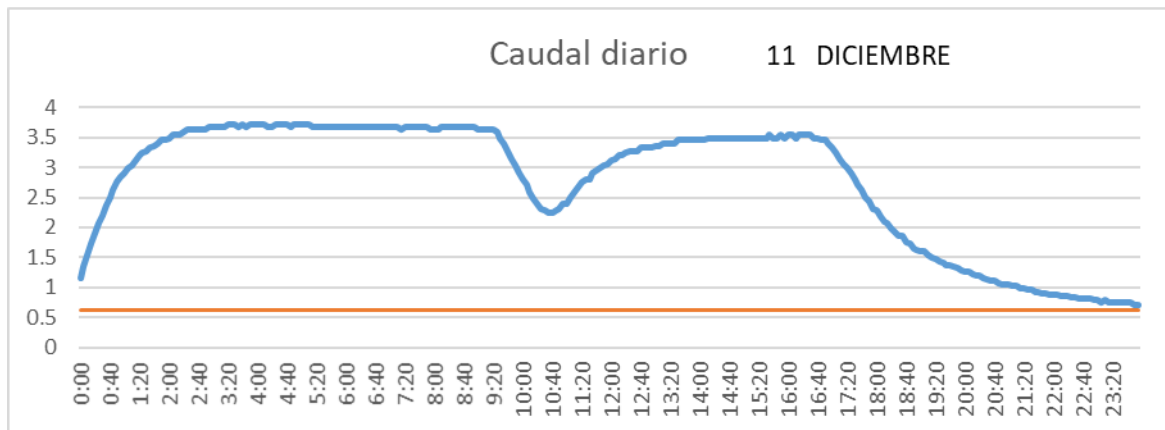
SAN LORENZO PARRILLA



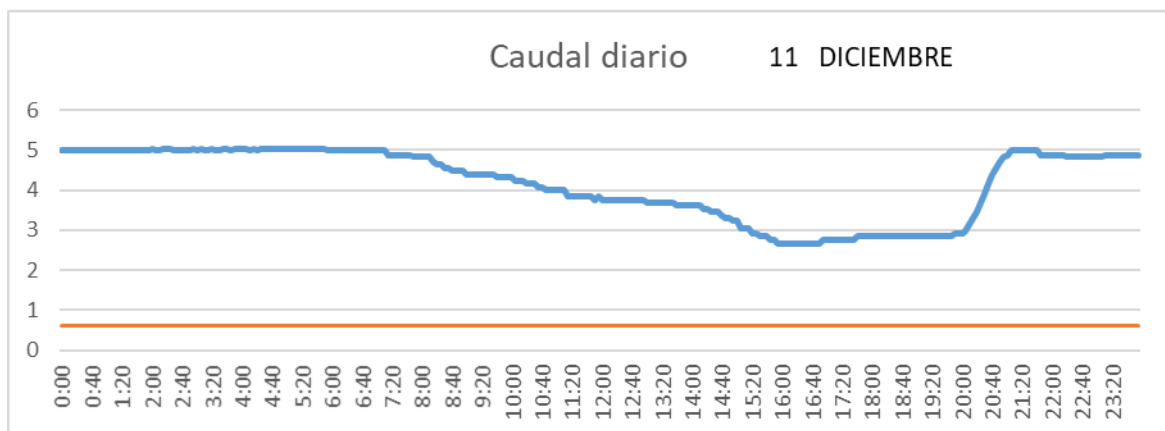
SALIDA TOBA



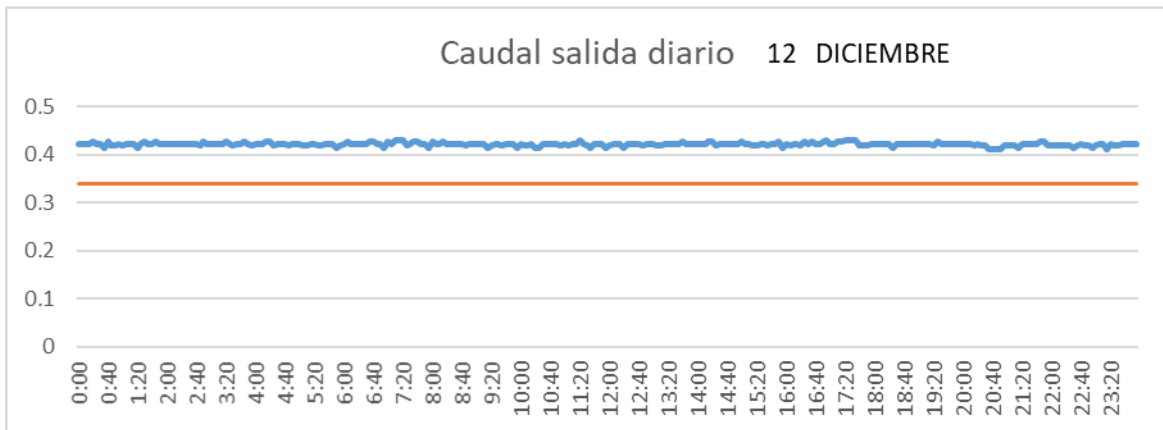
CUENCA



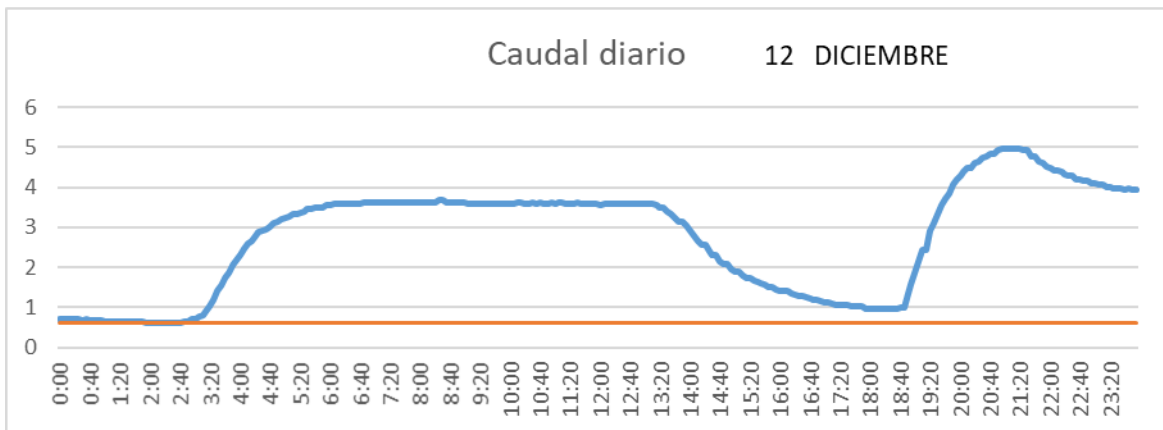
SAN LORENZO PARRILLA



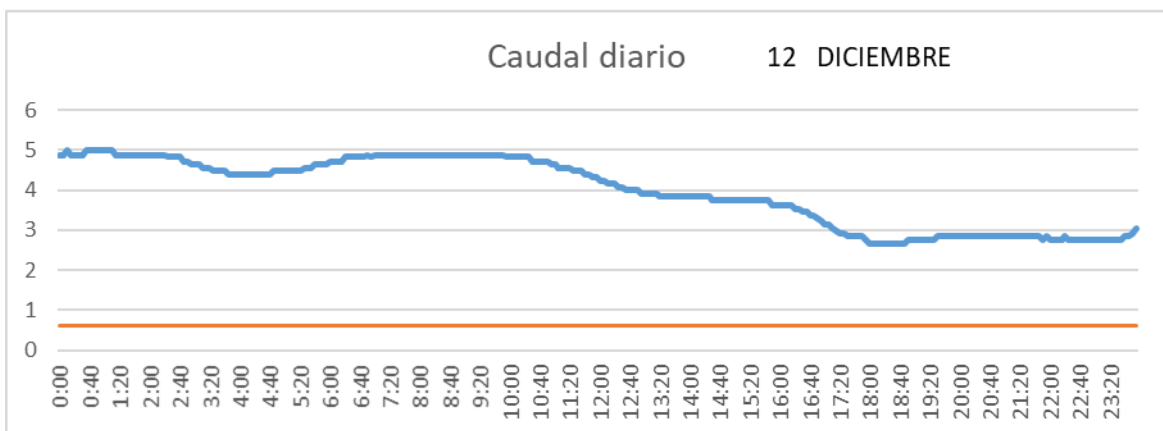
SALIDA TOBA



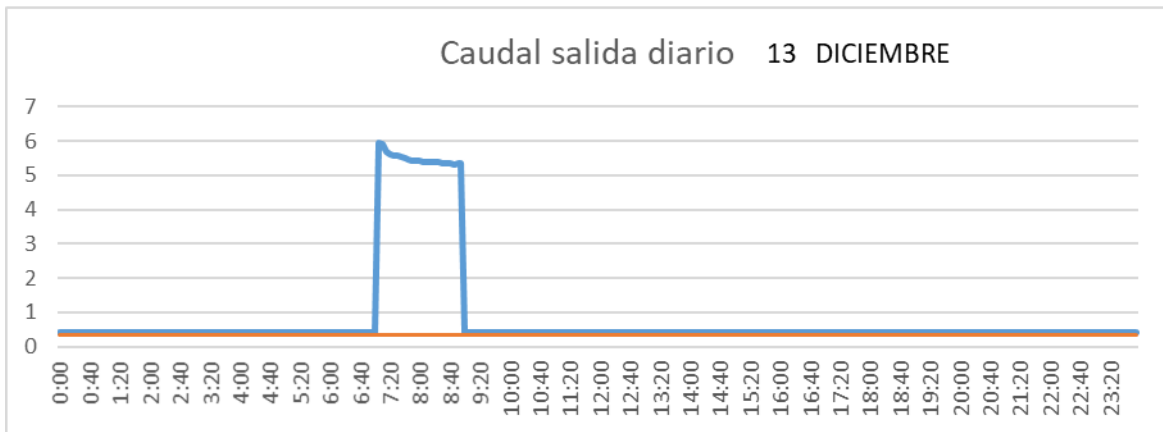
CUENCA



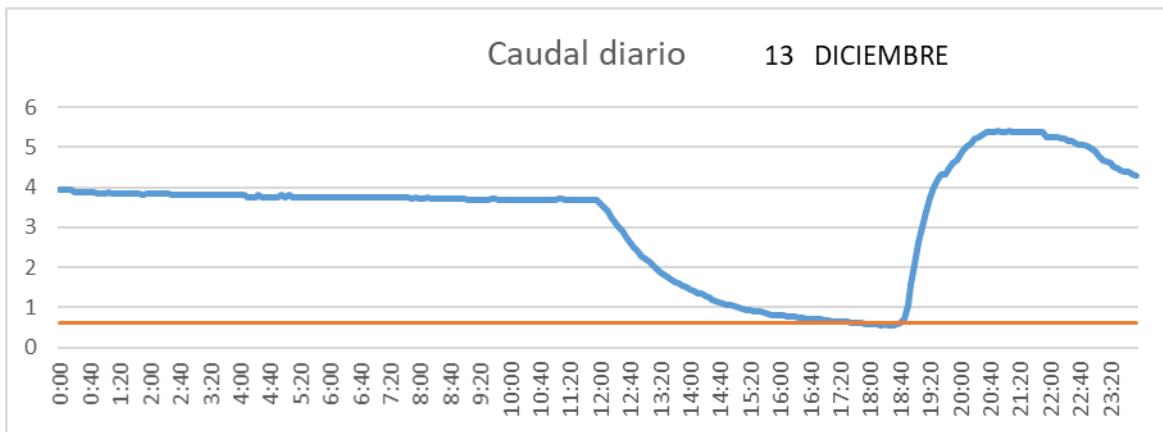
SAN LORENZO PARRILLA



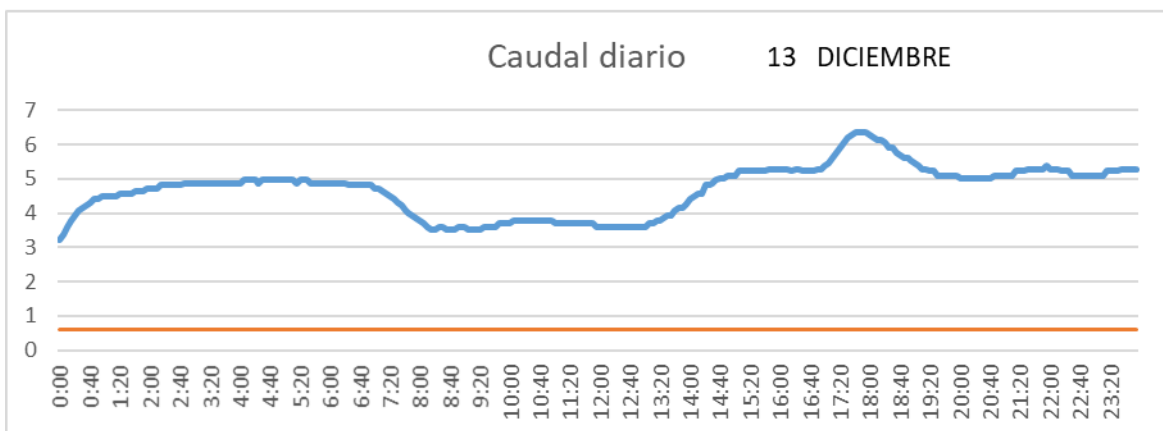
SALIDA TOBA



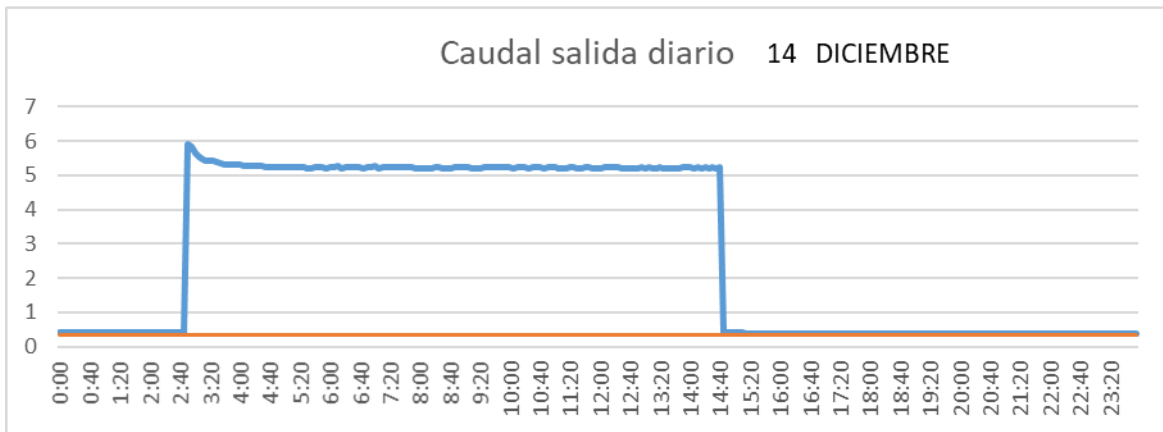
CUENCA



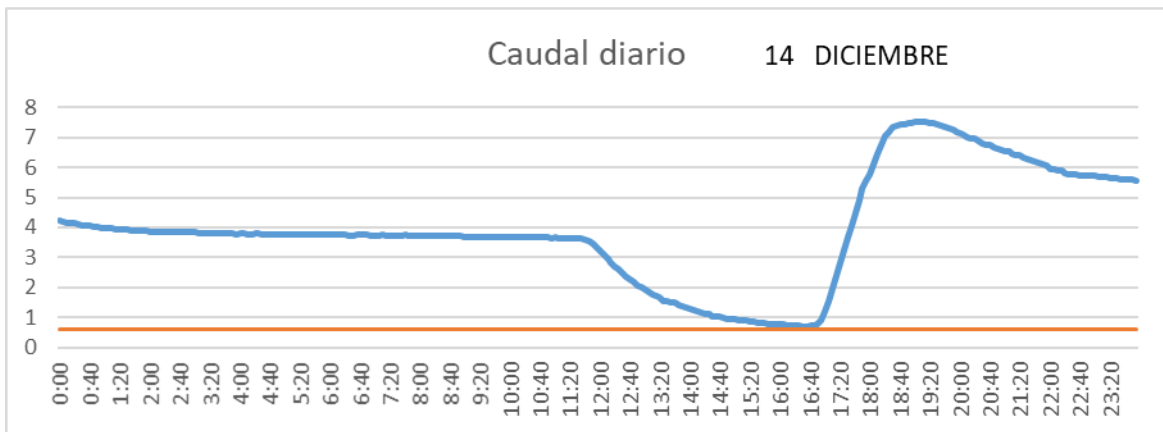
SAN LORENZO PARRILLA



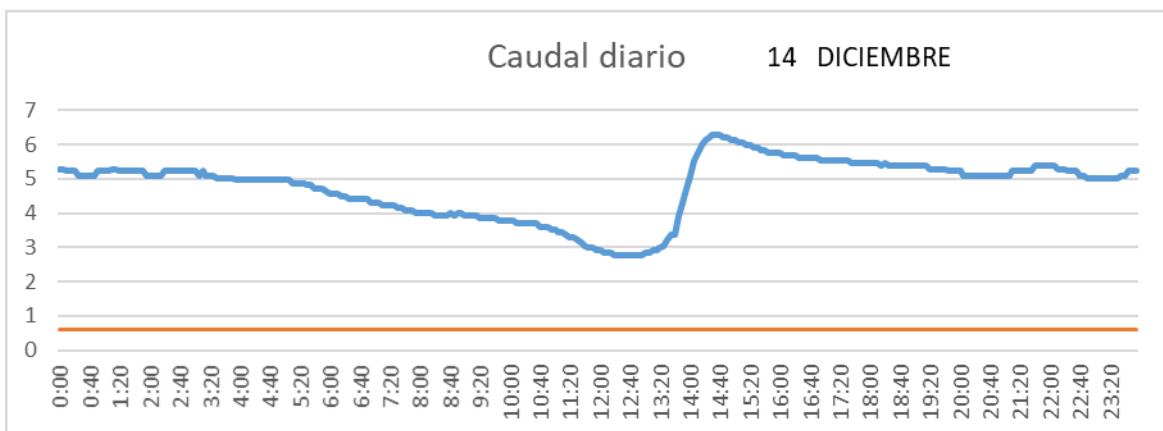
SALIDA TOBA



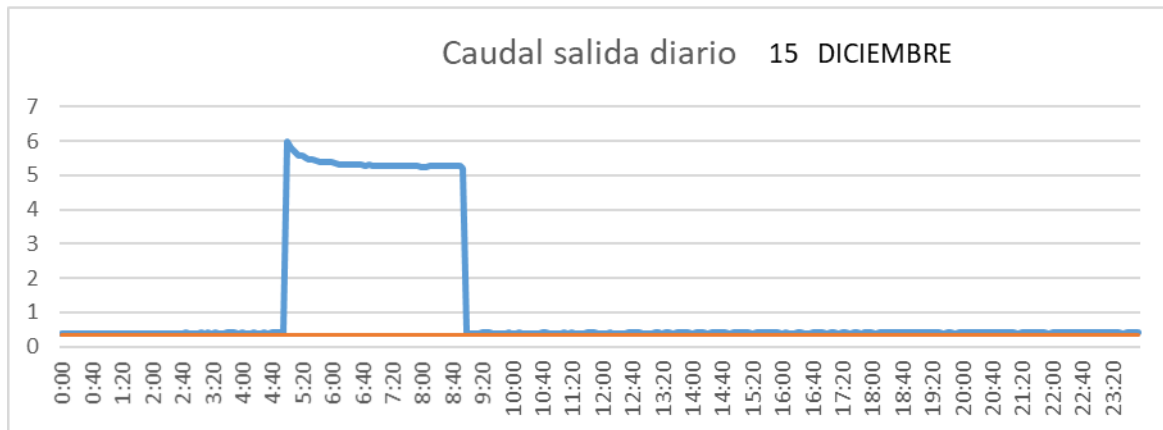
CUENCA



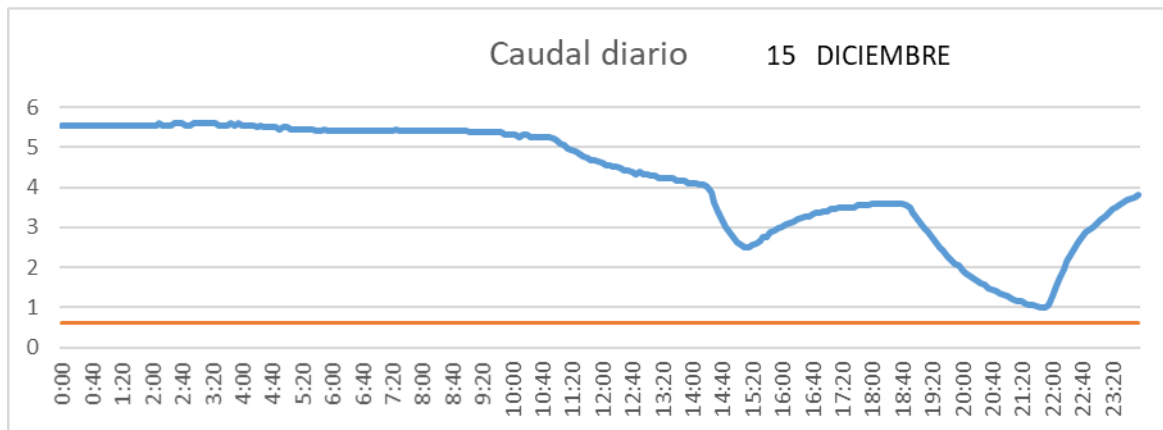
SAN LORENZO PARRILLA



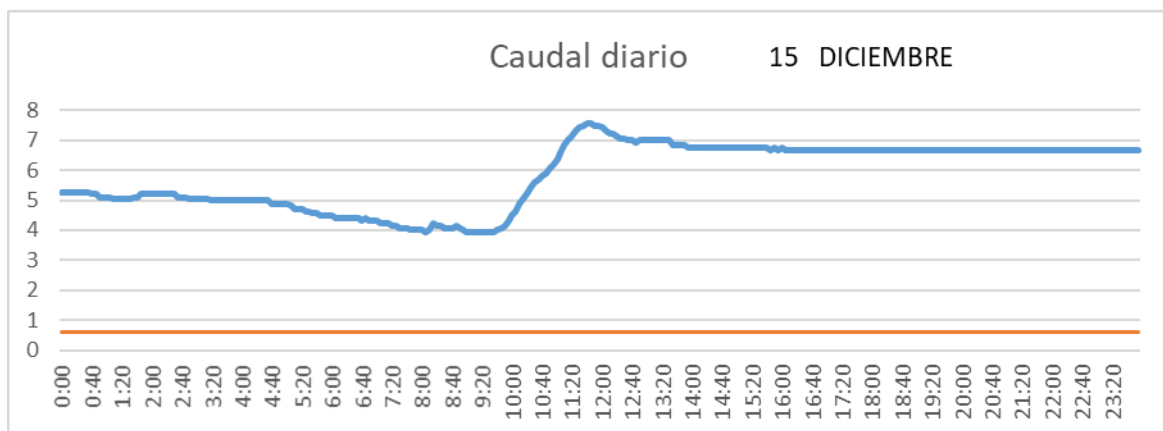
SALIDA TOBA



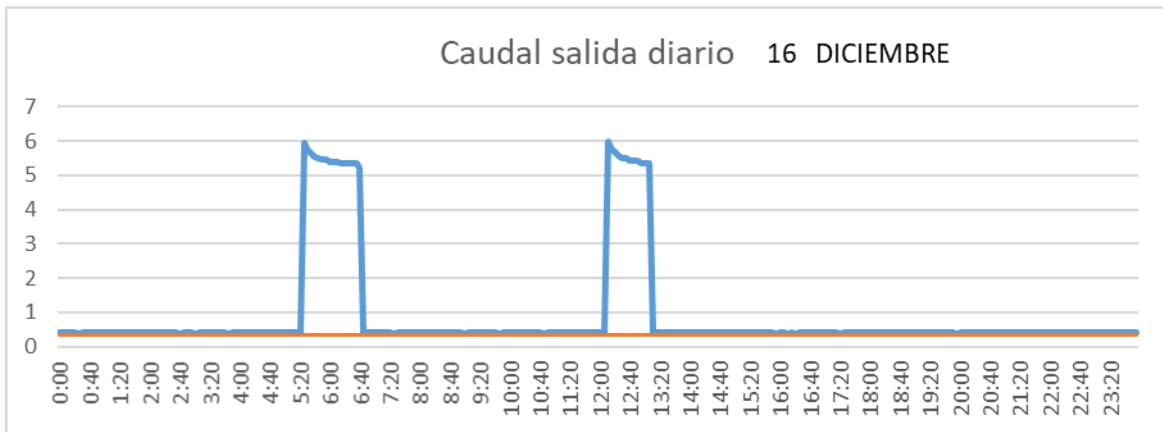
CUENCA



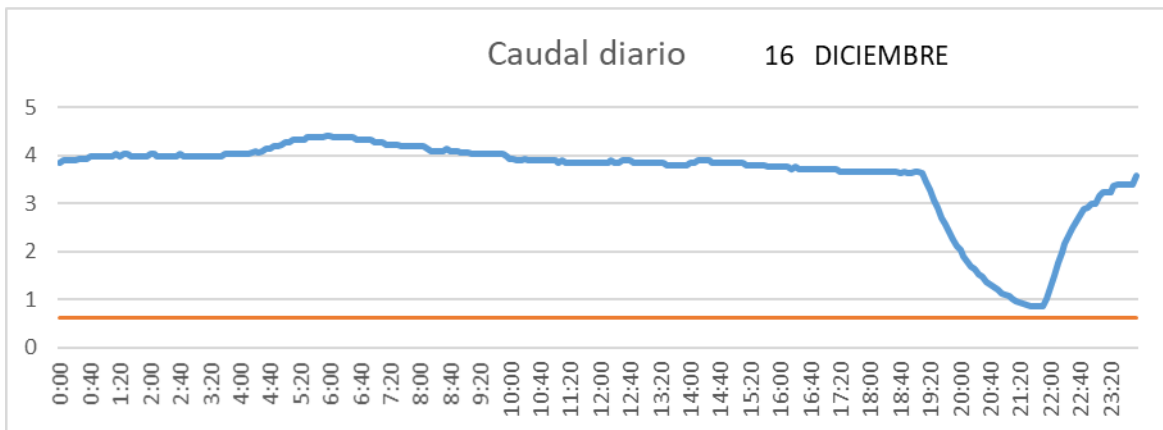
SAN LORENZO PARRILLA



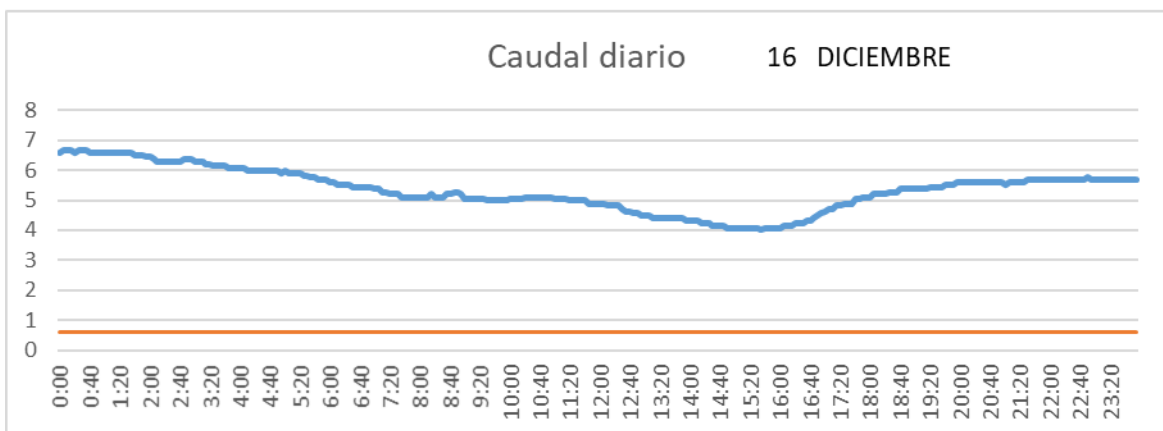
SALIDA TOBA



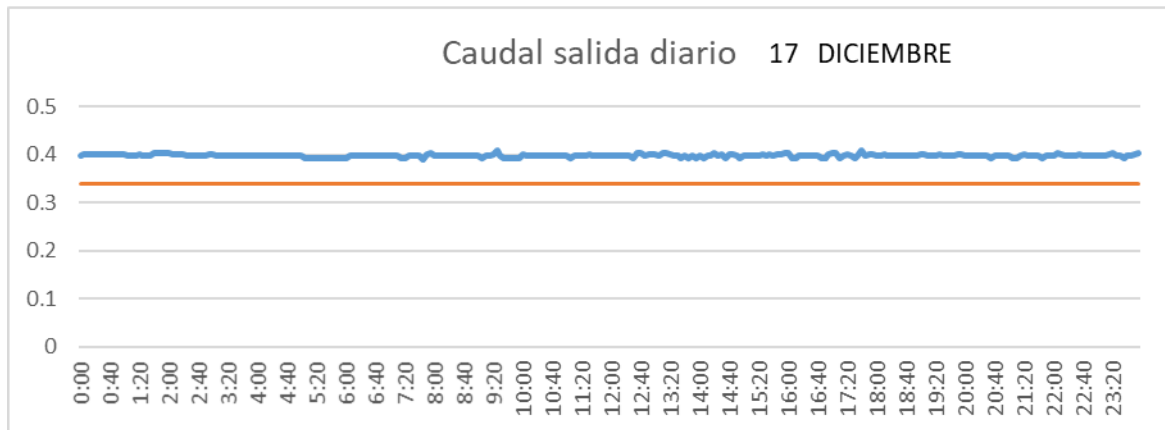
CUENCA



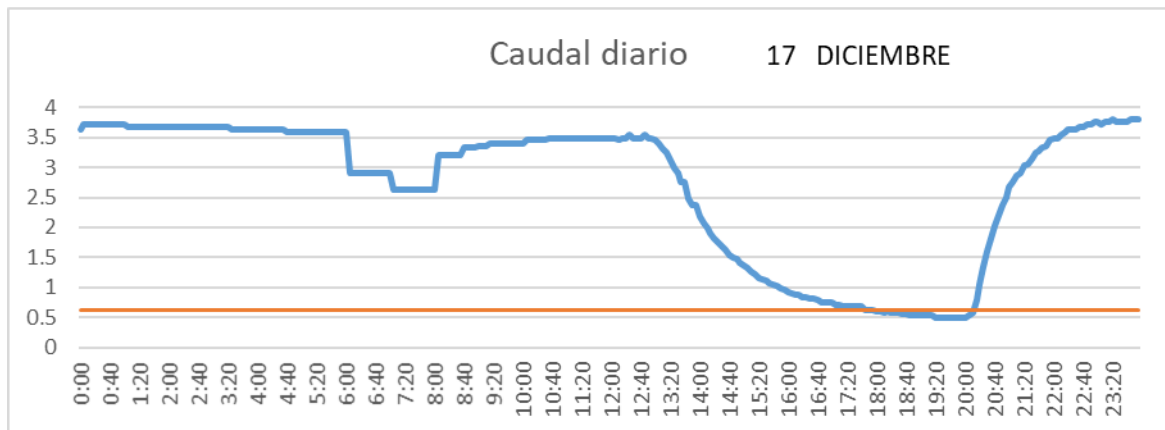
SAN LORENZO PARRILLA



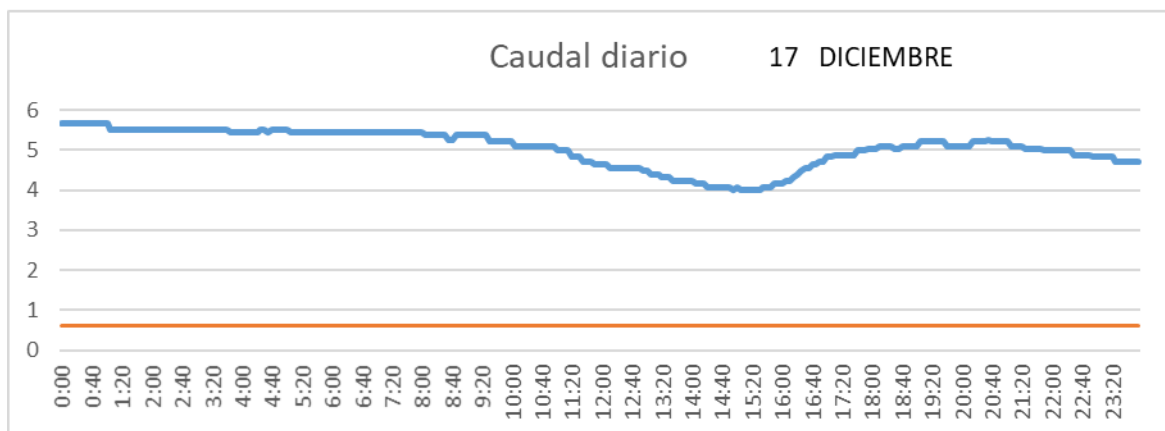
SALIDA TOBA



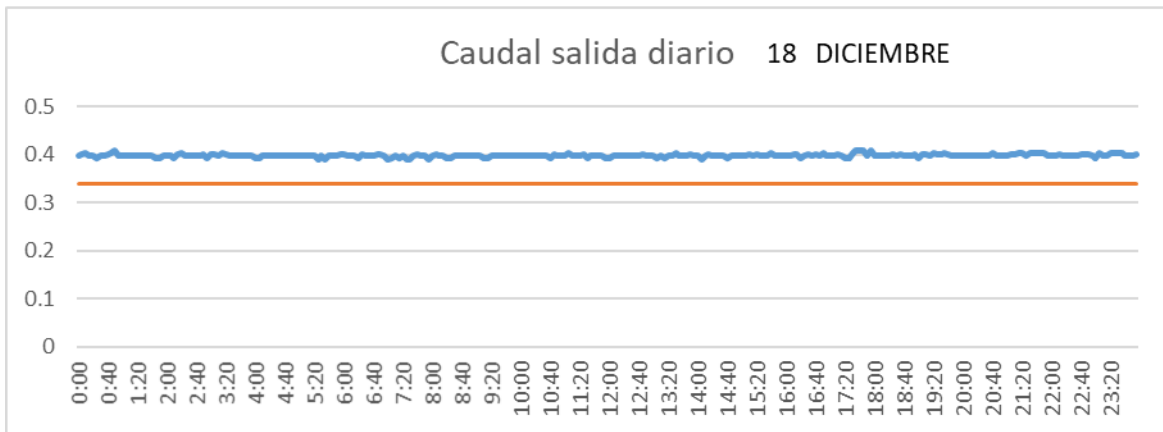
CUENCA



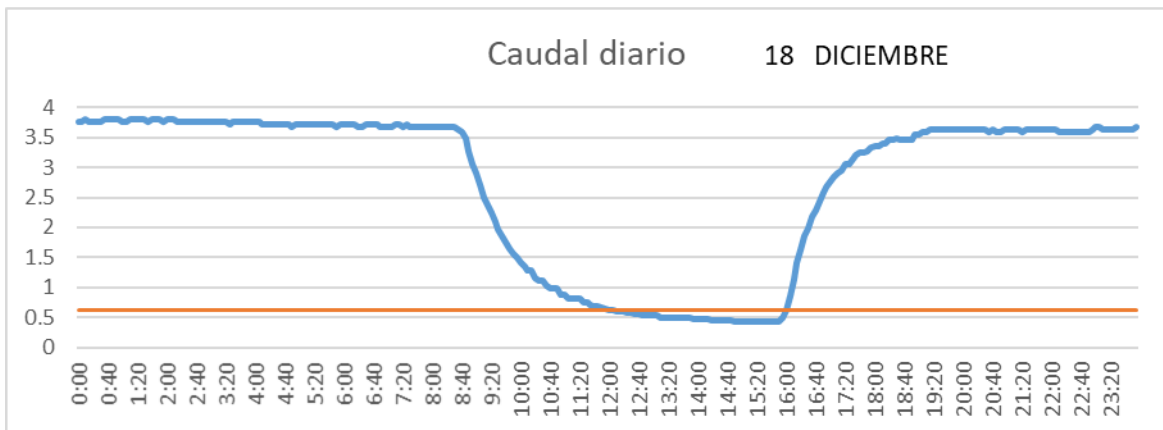
SAN LORENZO PARRILLA



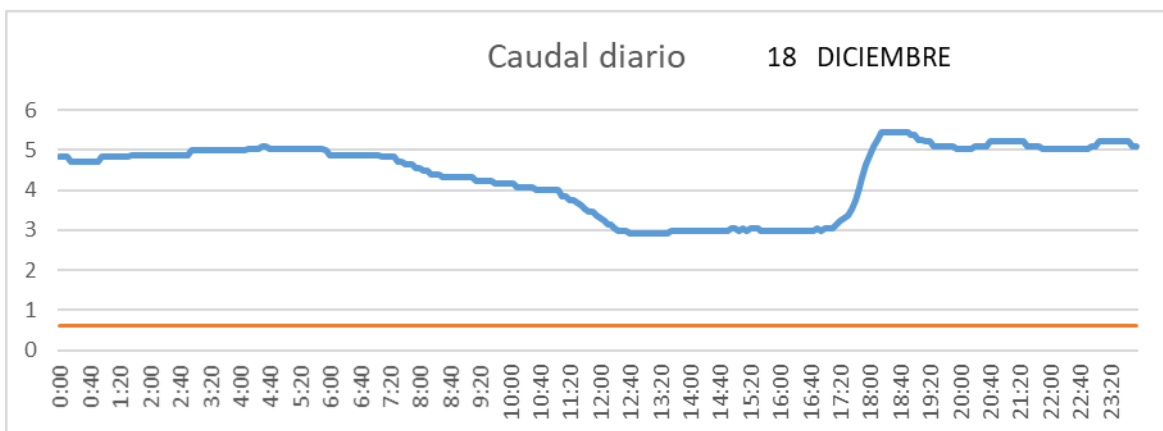
SALIDA TOBA



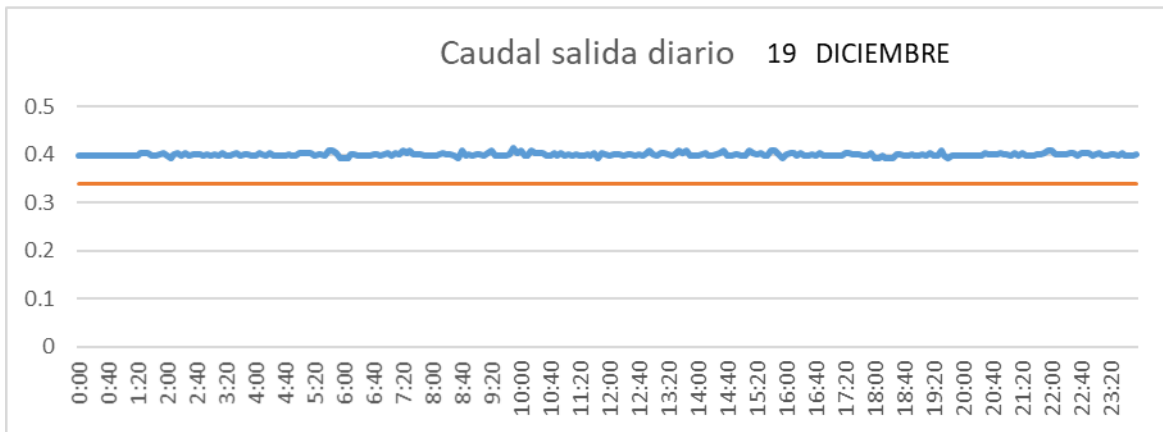
CUENCA



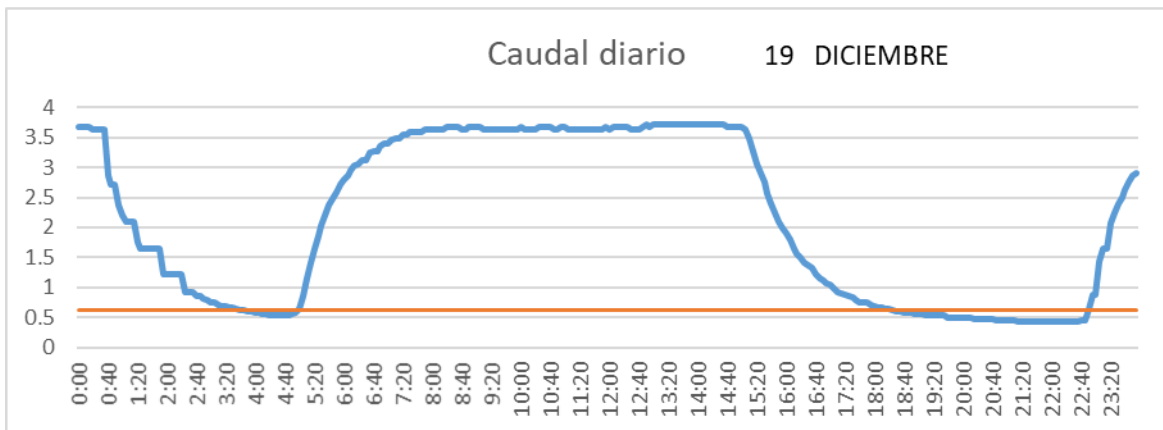
SAN LORENZO PARRILLA



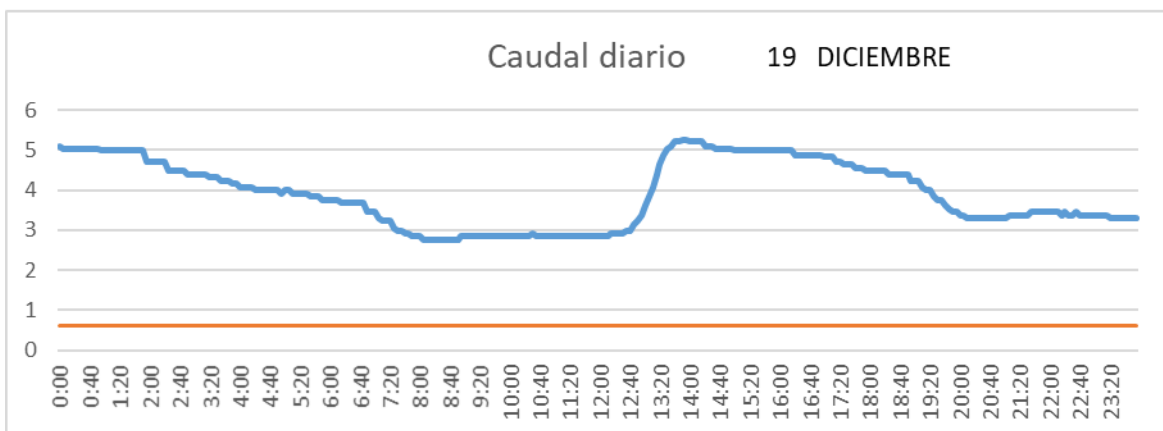
SALIDA TOBA



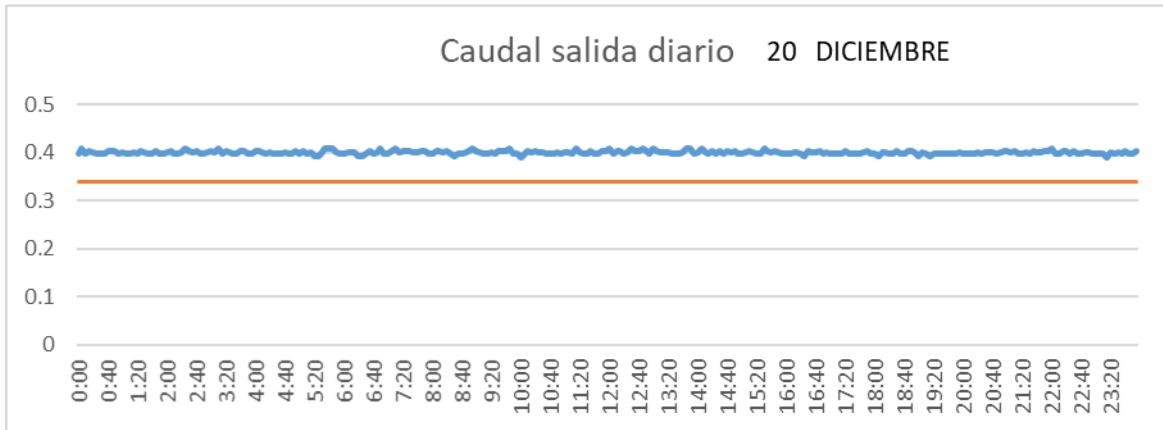
CUENCA



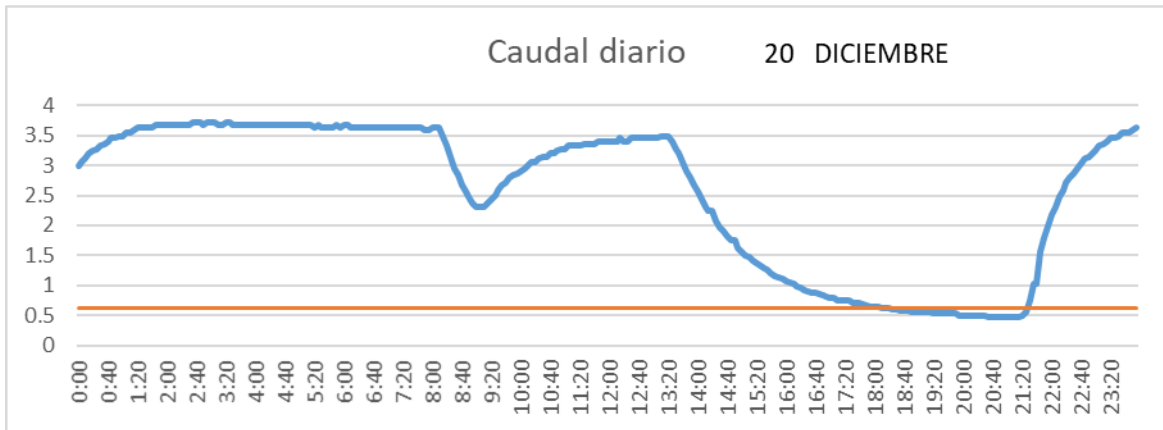
SAN LORENZO PARRILLA



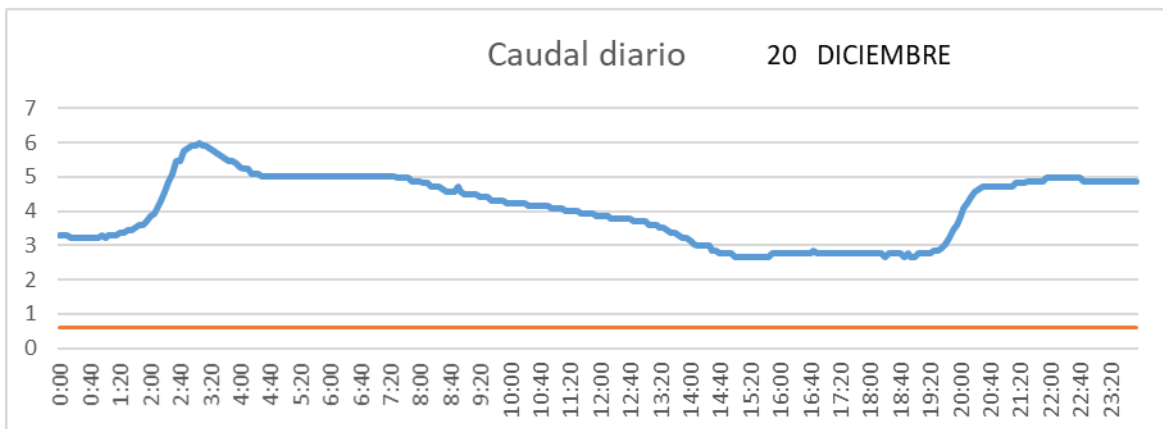
SALIDA TOBA



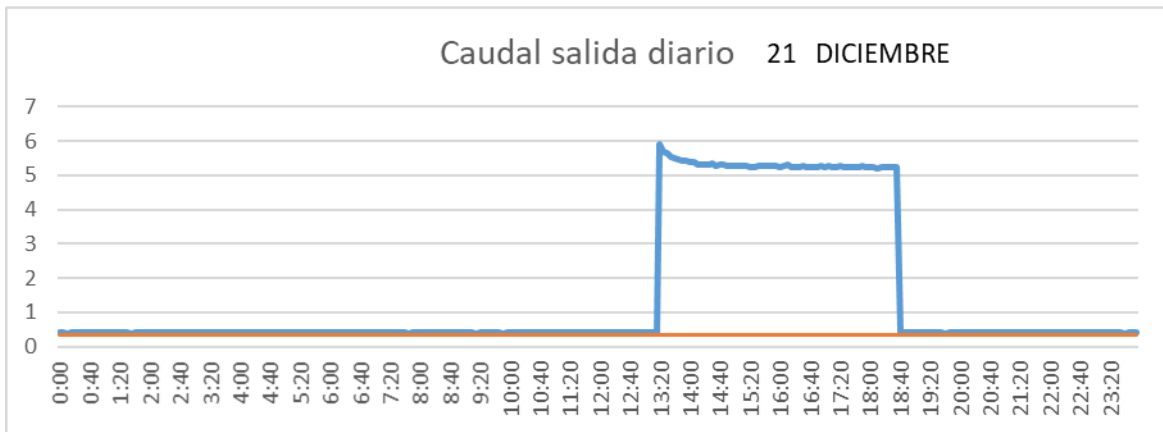
CUENCA



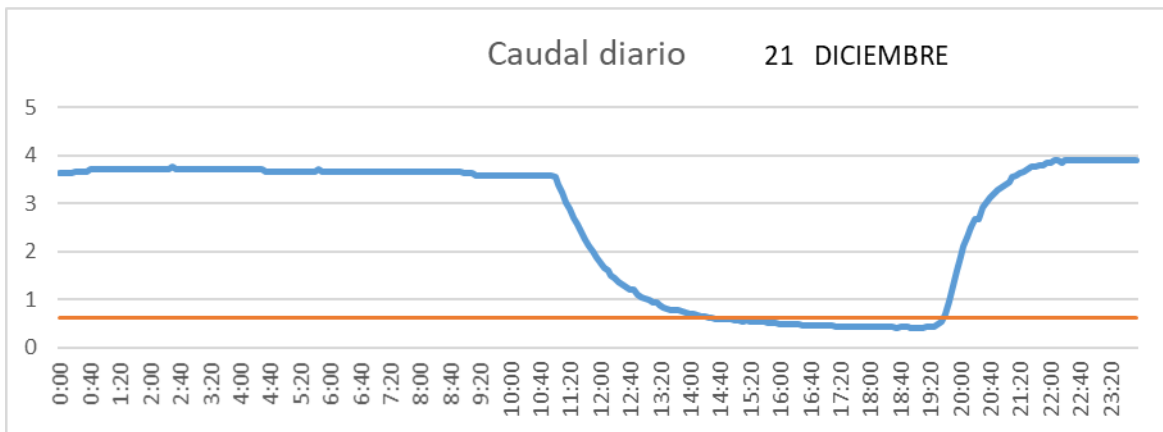
SAN LORENZO PARRILLA



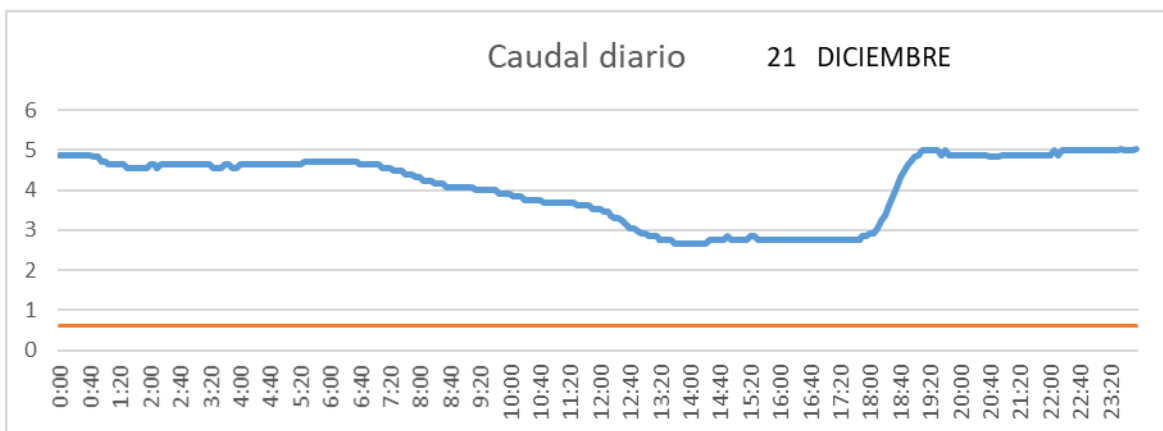
SALIDA TOBA



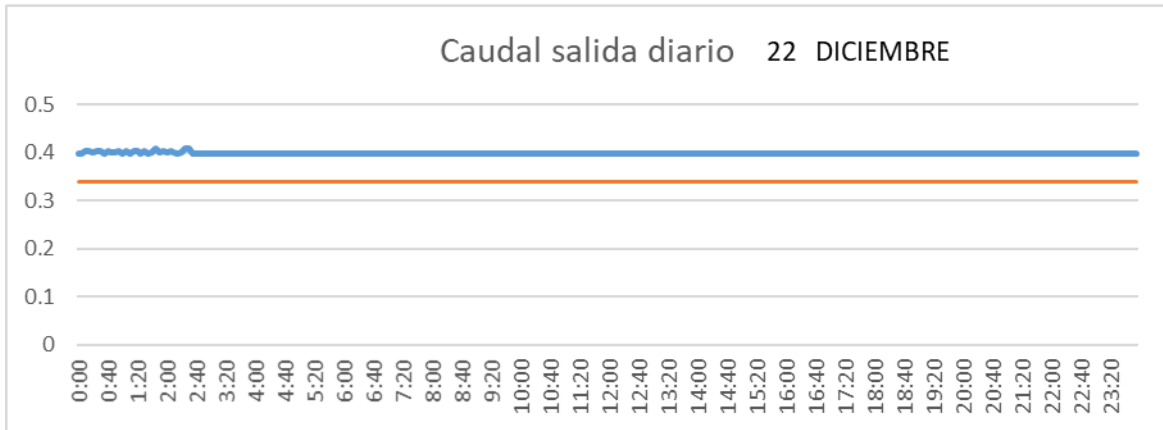
CUENCA



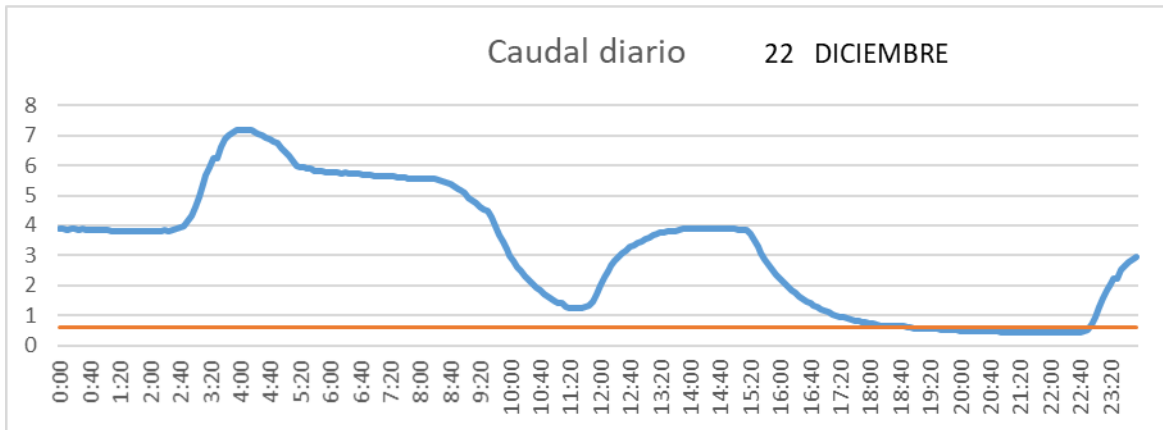
SAN LORENZO PARRILLA



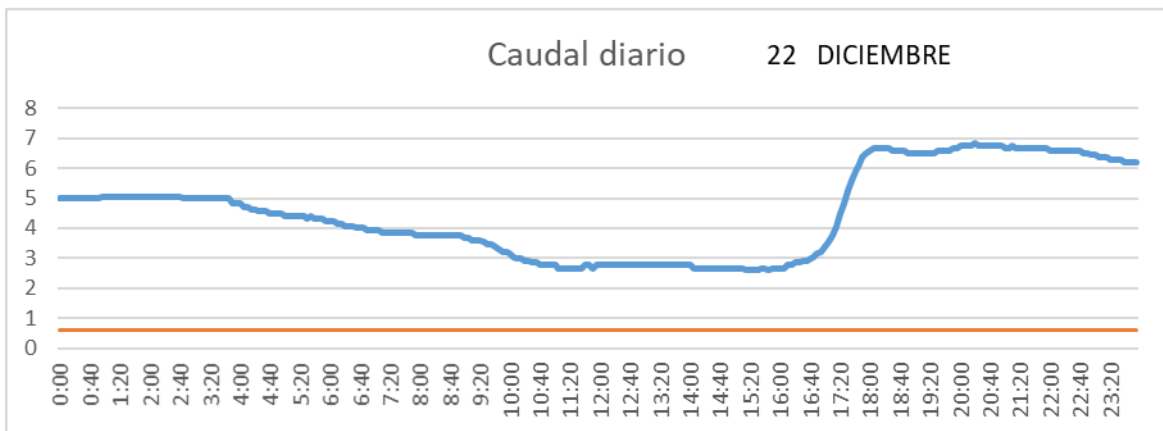
SALIDA TOBA



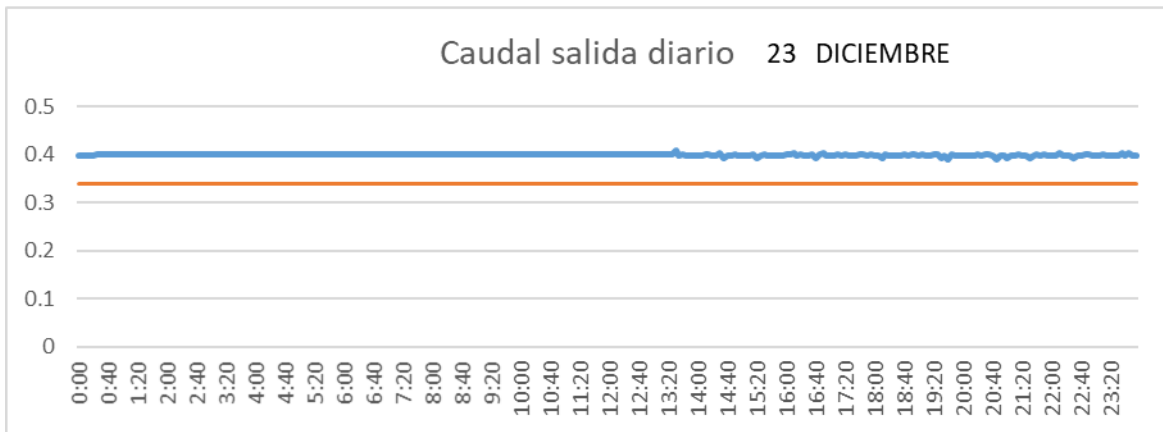
CUENCA



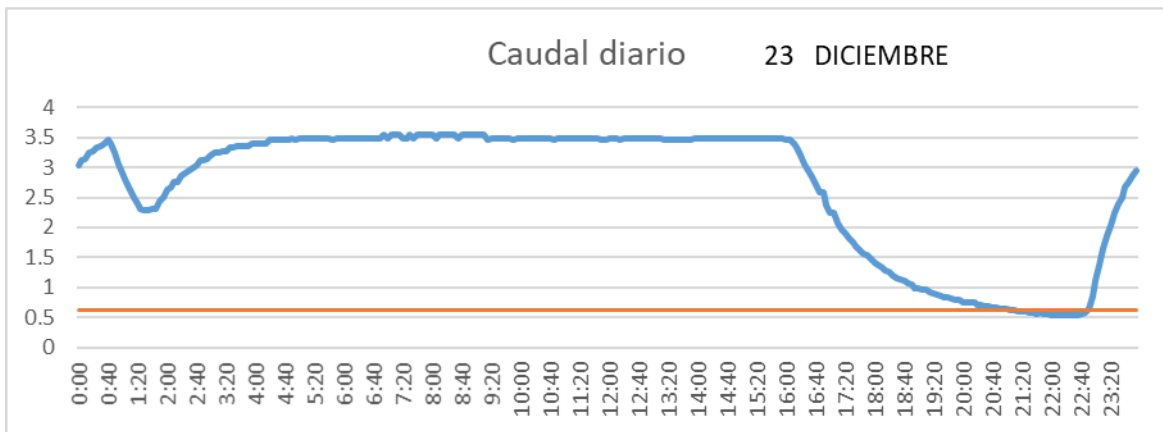
SAN LORENZO PARRILLA



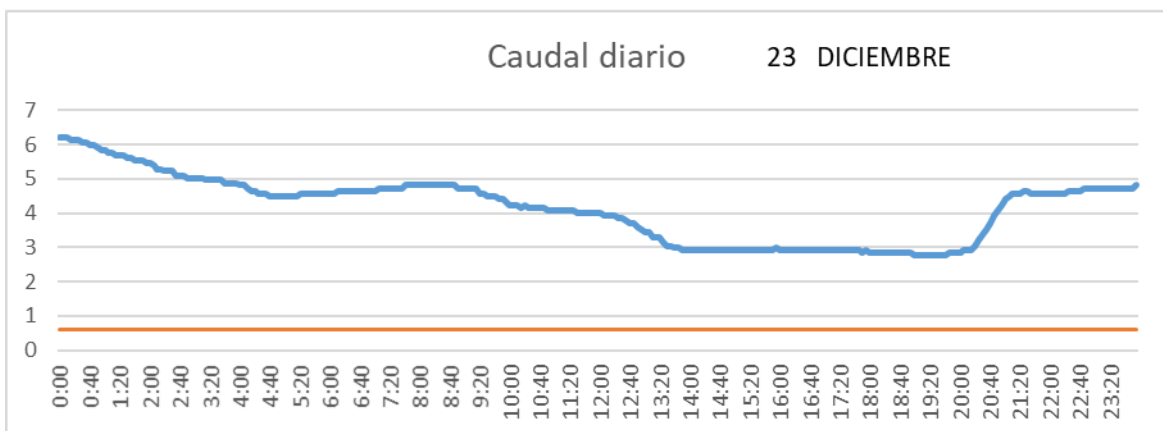
SALIDA TOBA



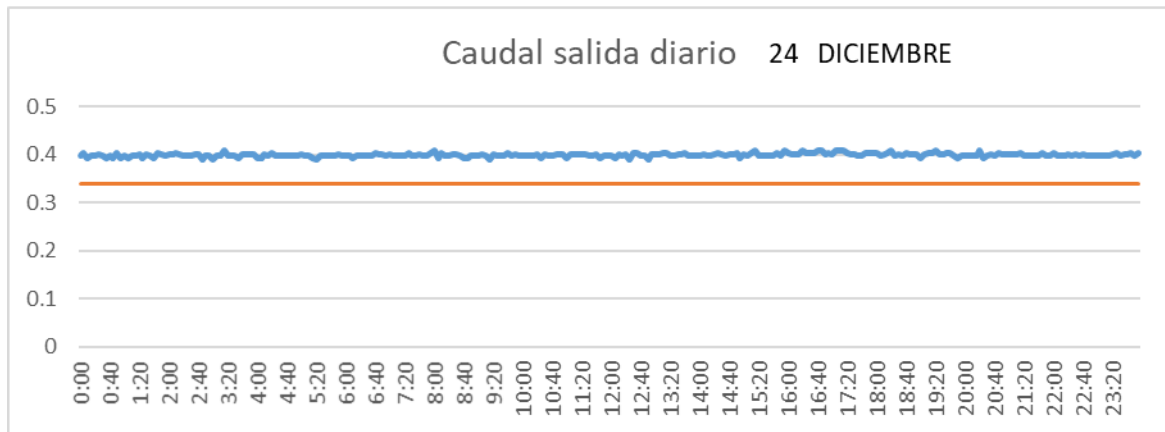
CUENCA



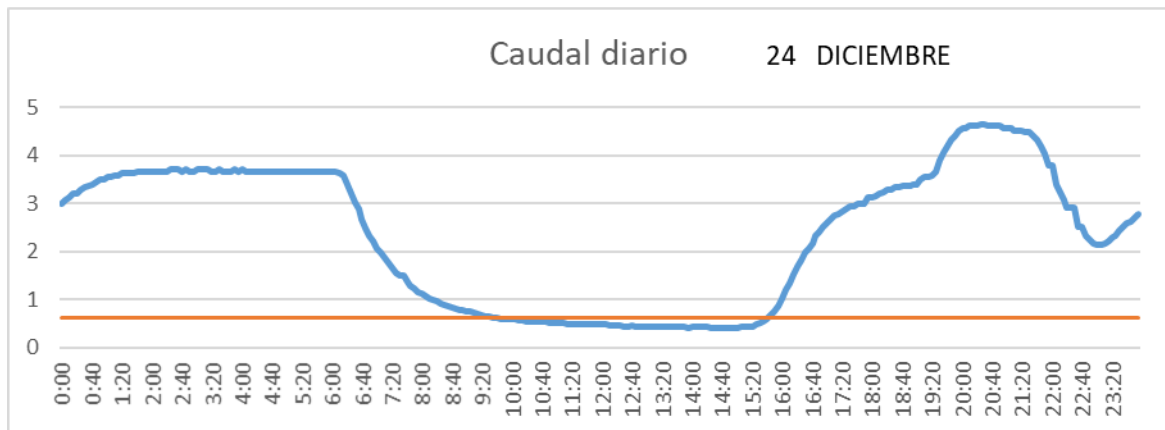
SAN LORENZO PARRILLA



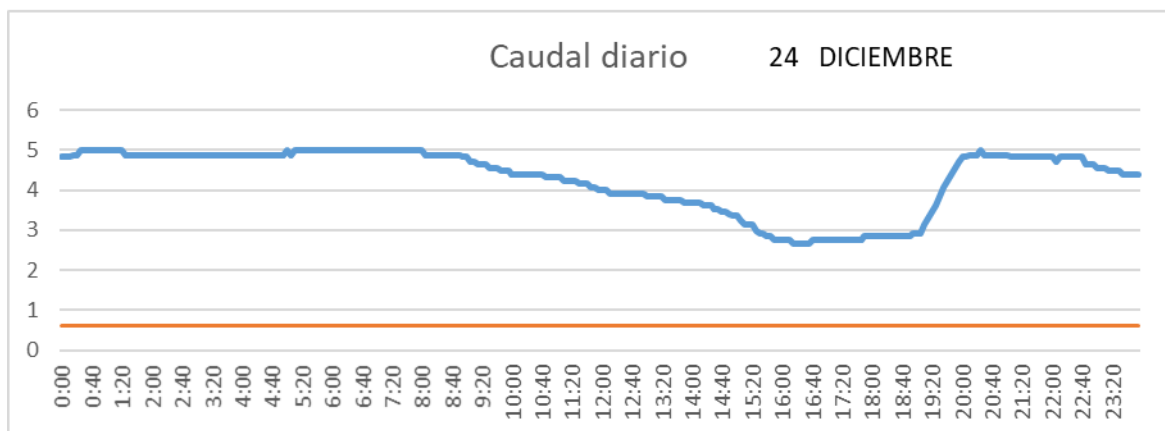
SALIDA TOBA



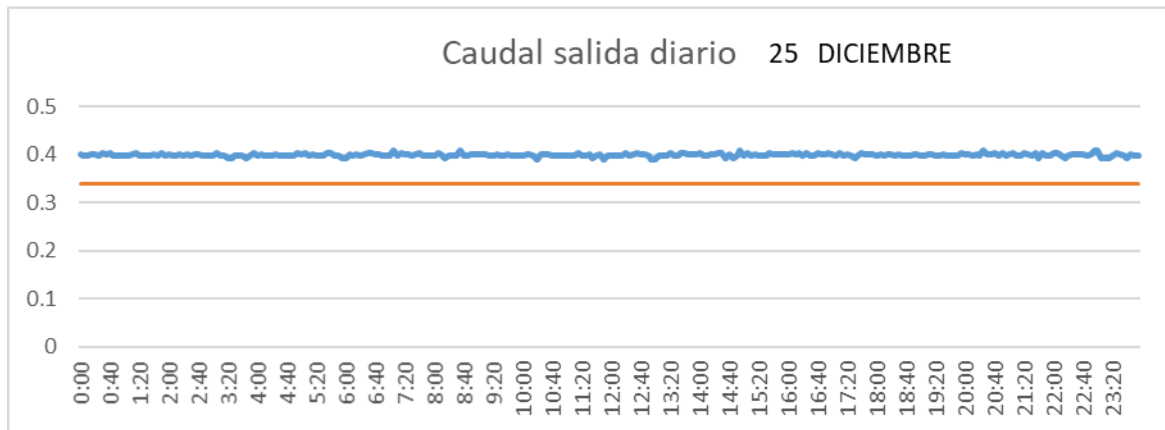
CUENCA



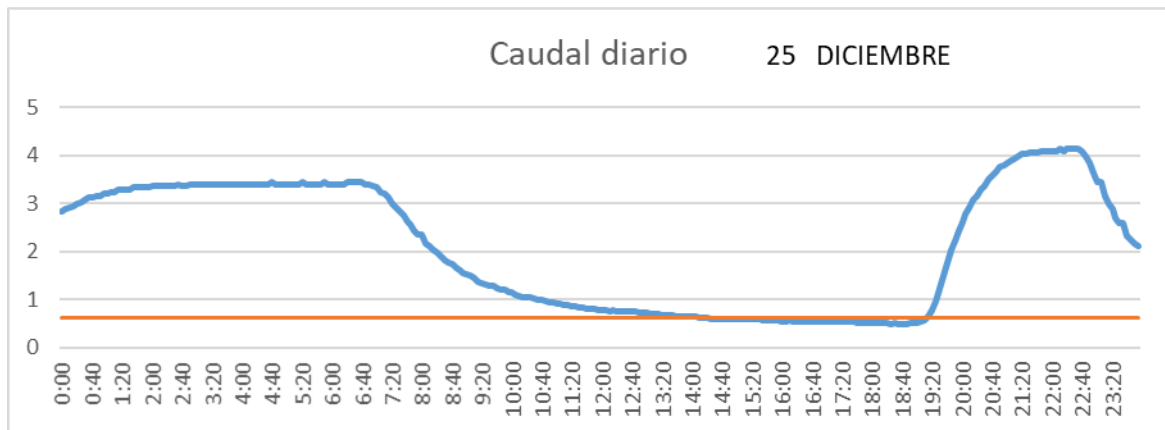
SAN LORENZO PARRILLA



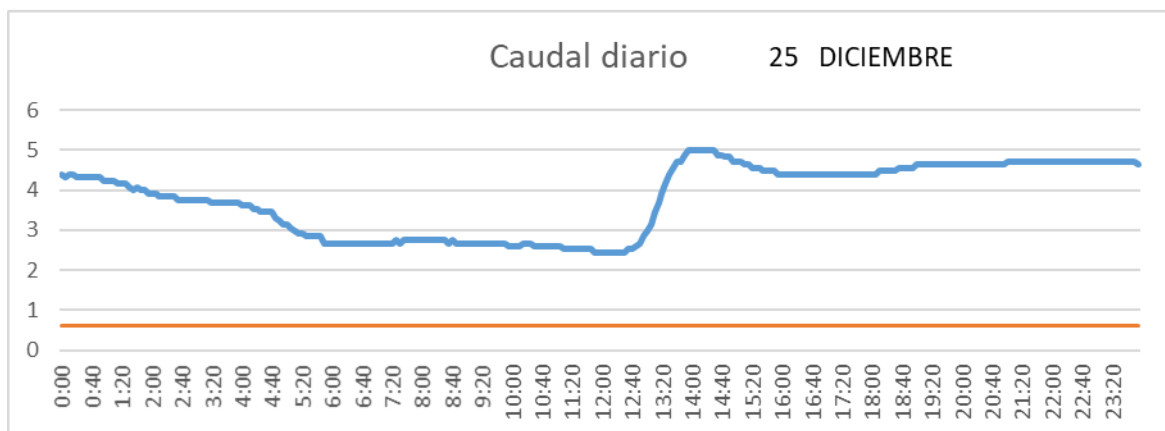
SALIDA TOBA



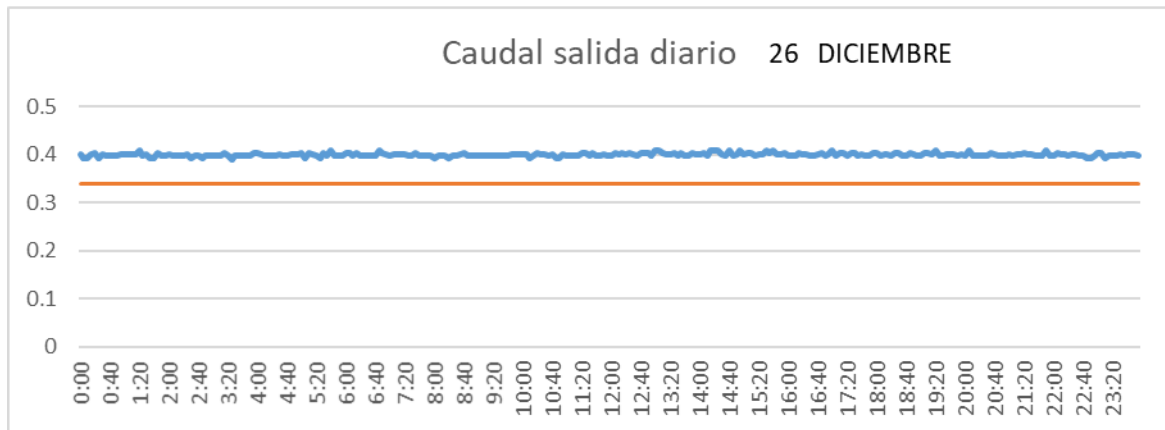
CUENCA



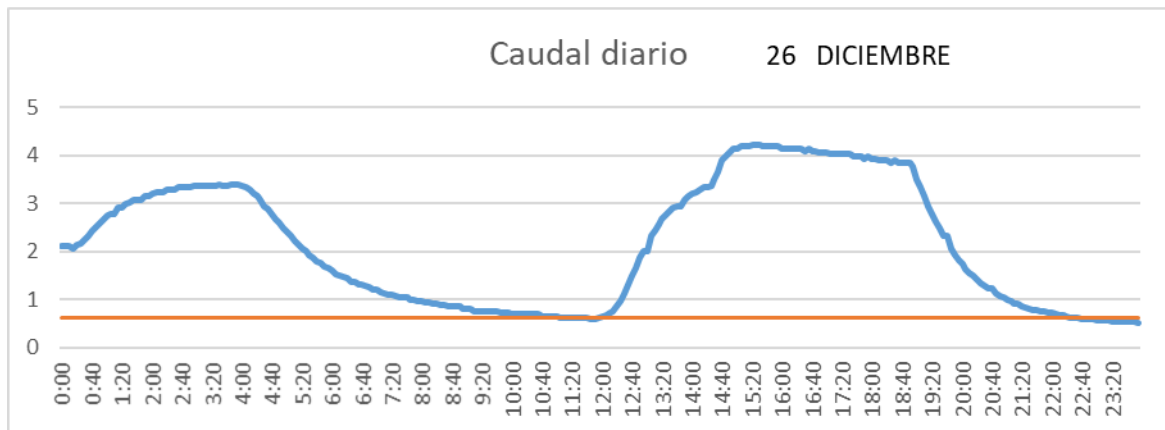
SAN LORENZO PARRILLA



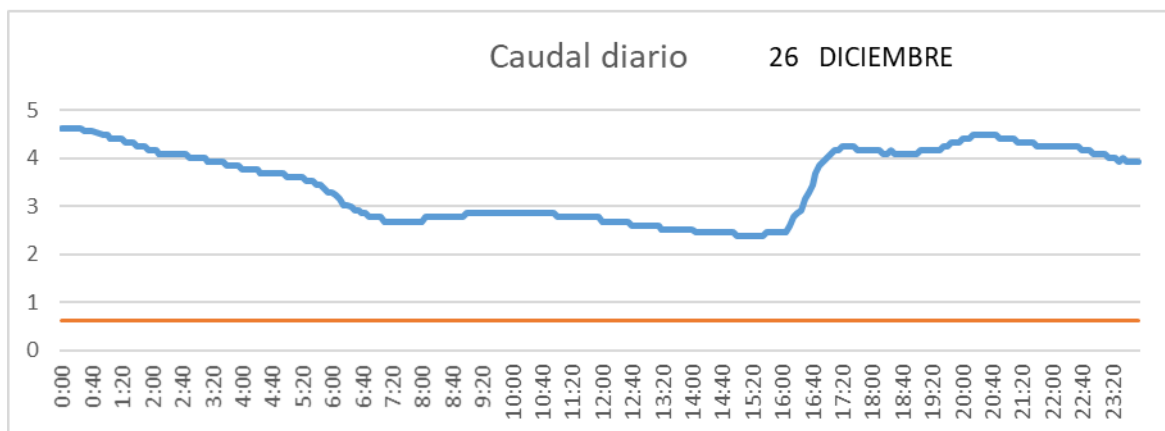
SALIDA TOBA



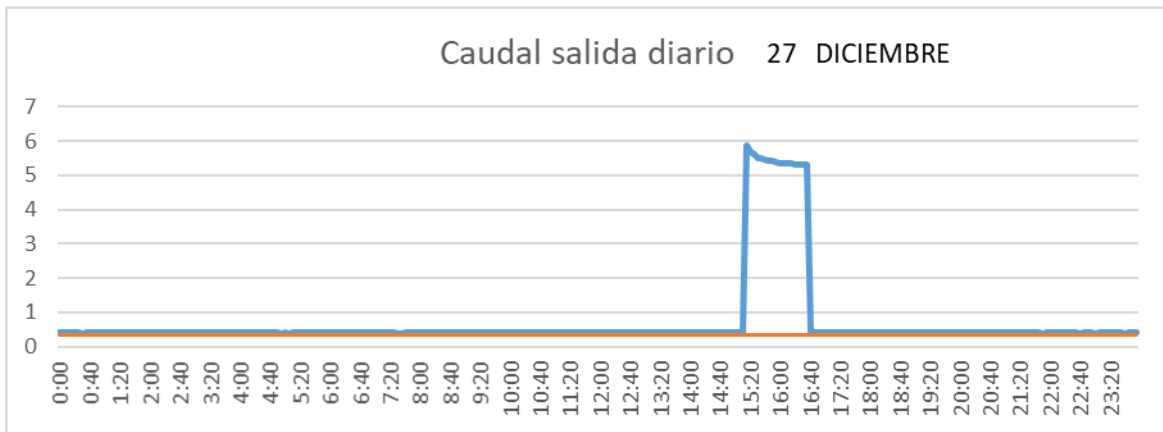
CUENCA



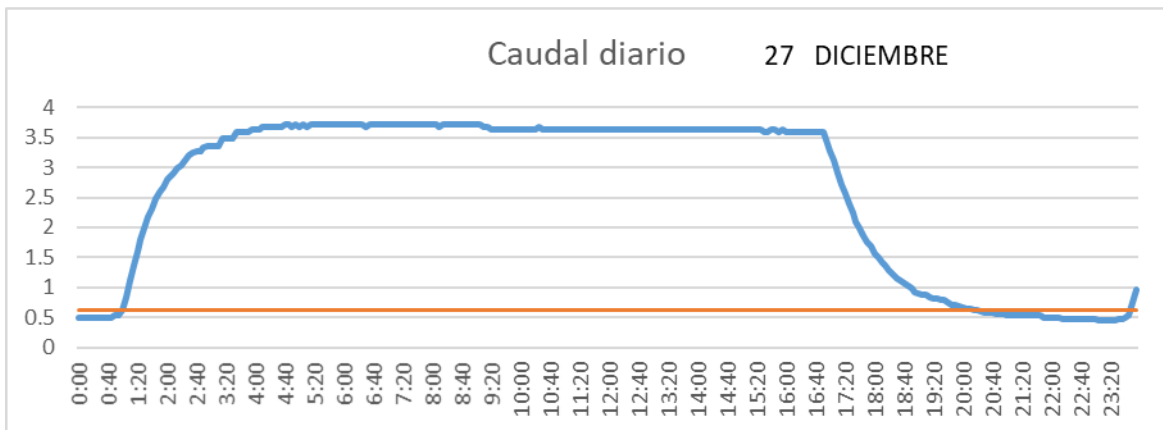
SAN LORENZO PARRILLA



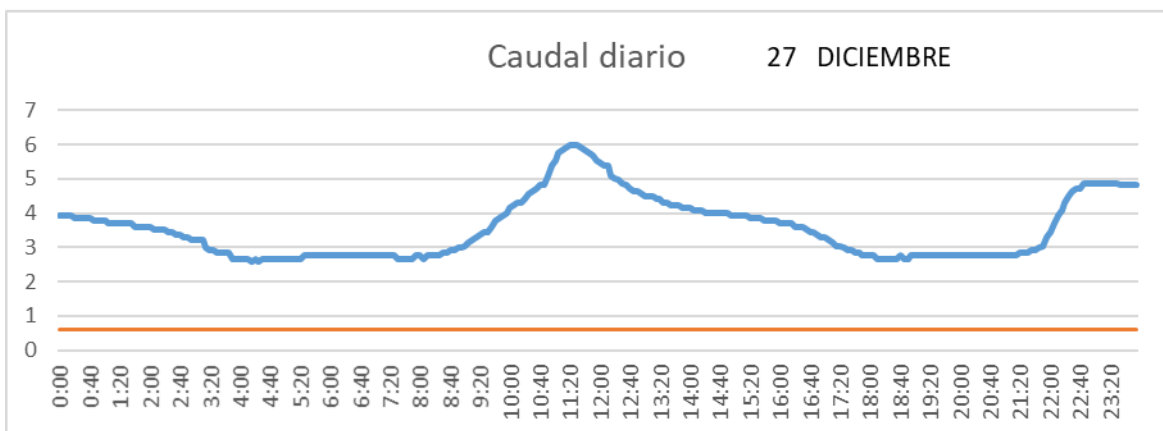
SALIDA TOBA



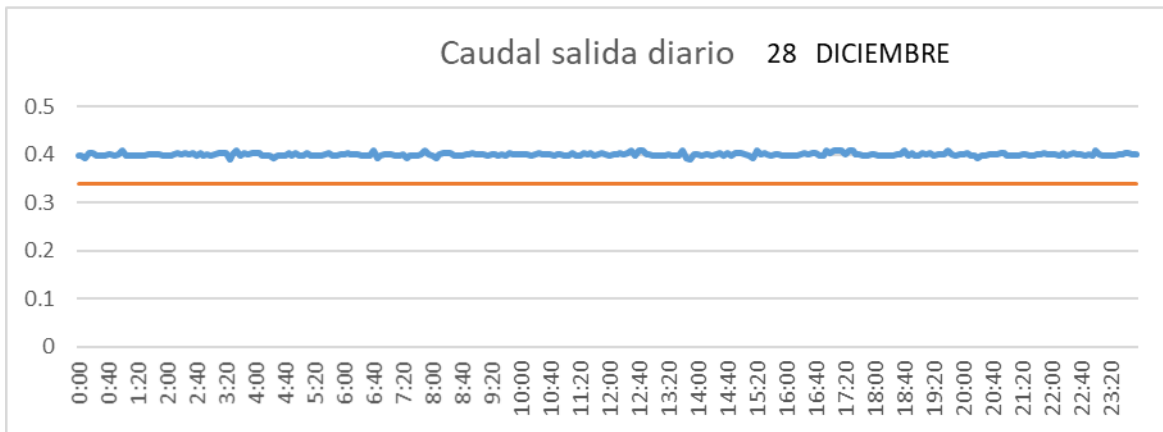
CUENCA



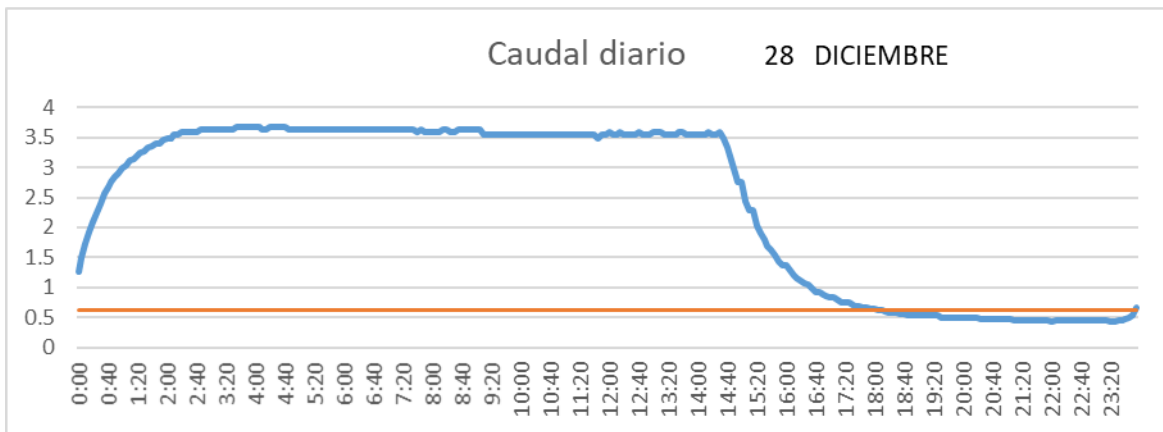
SAN LORENZO PARRILLA



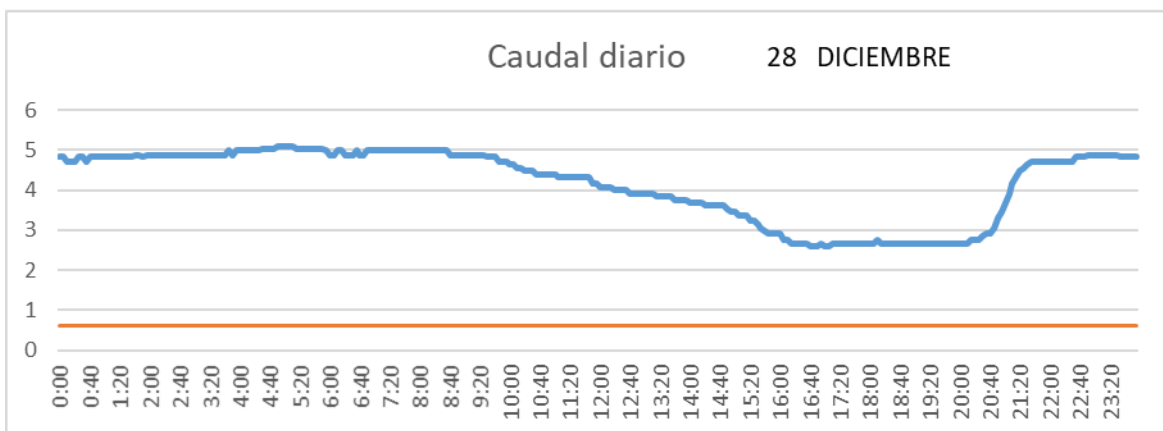
SALIDA TOBA



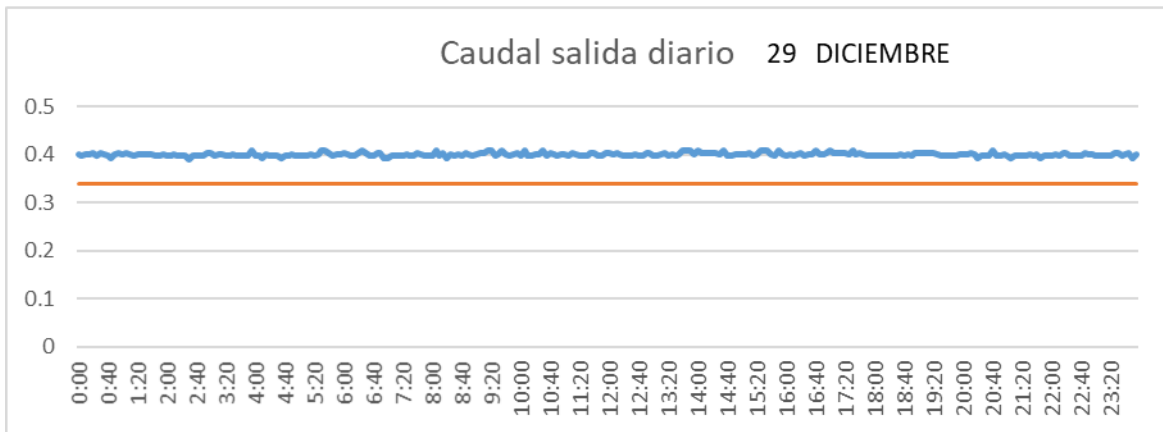
CUENCA



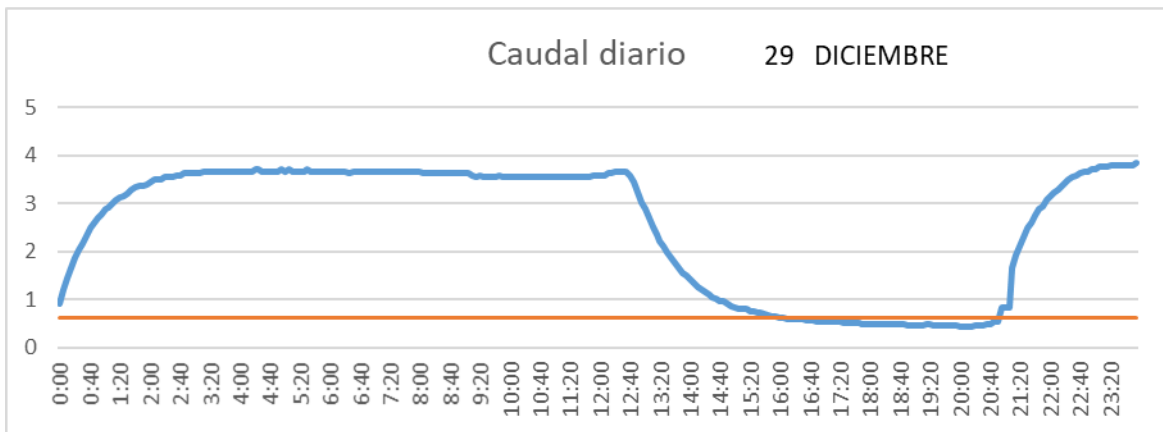
SAN LORENZO PARRILLA



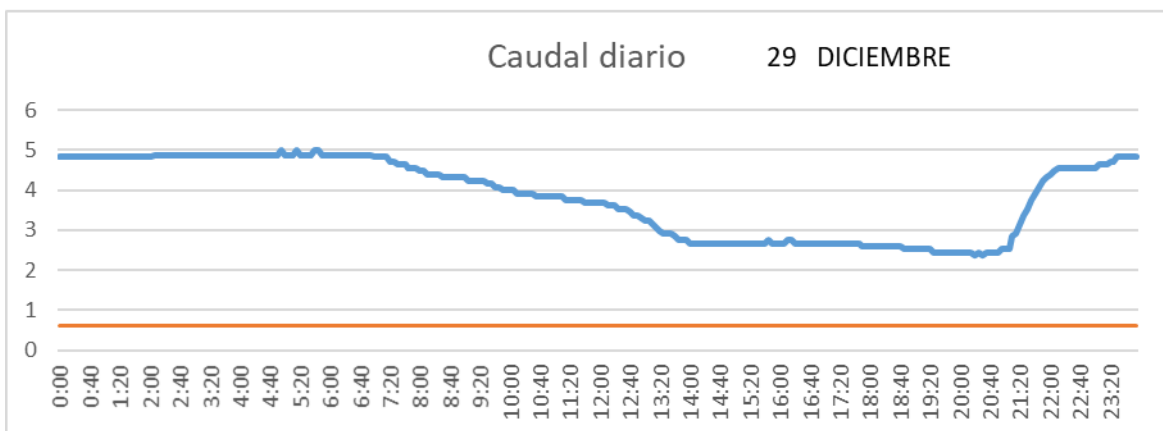
SALIDA TOBA



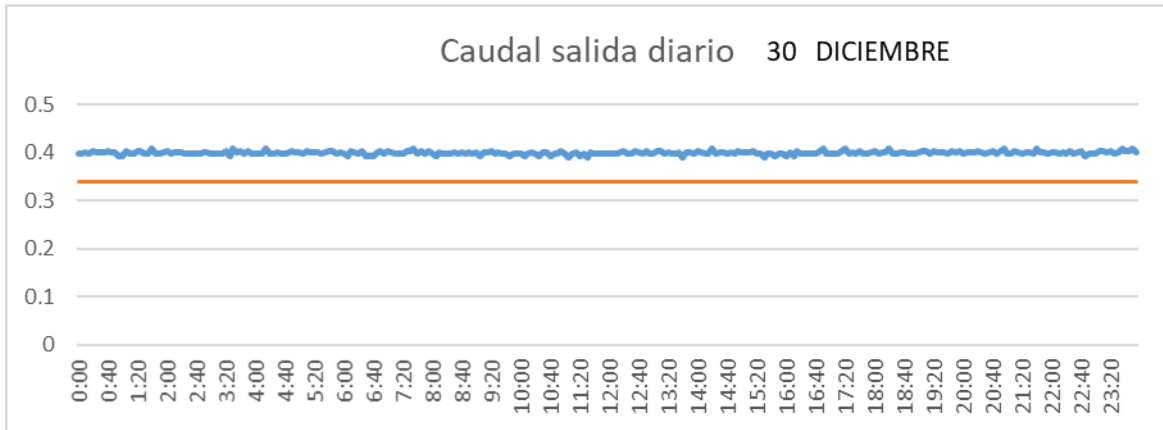
CUENCA



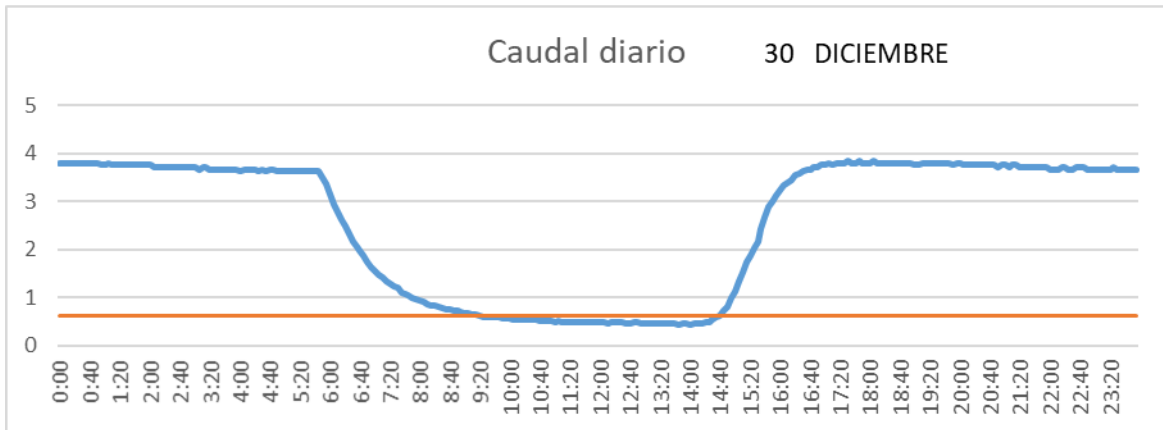
SAN LORENZO PARRILLA



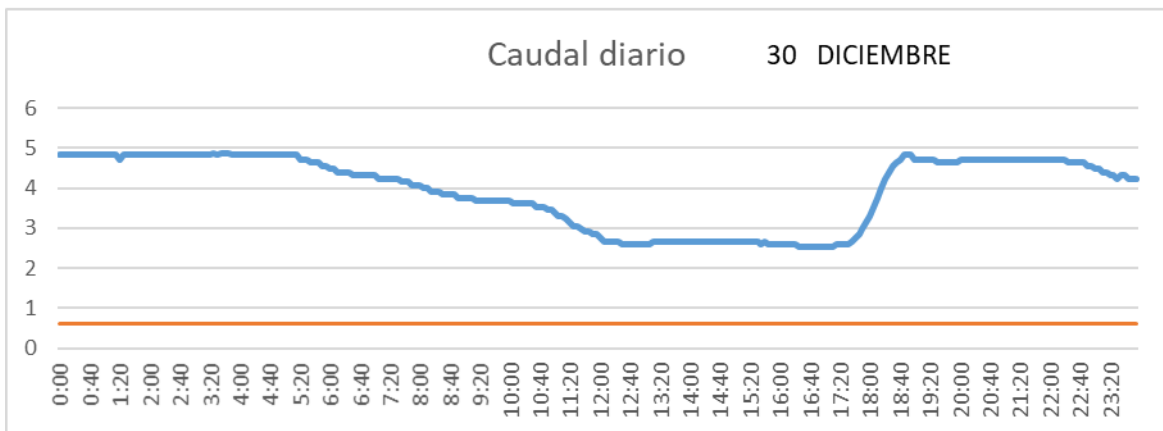
SALIDA TOBA



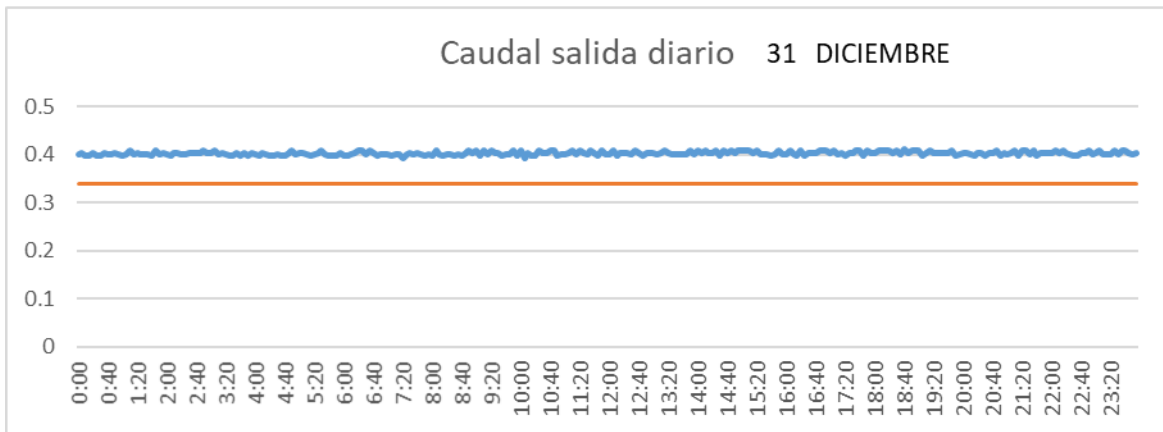
CUENCA



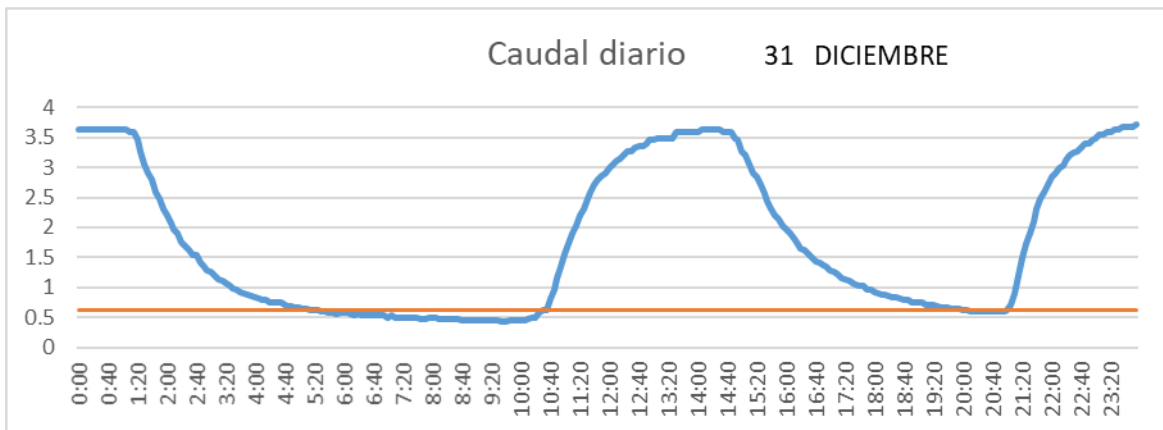
SAN LORENZO PARRILLA



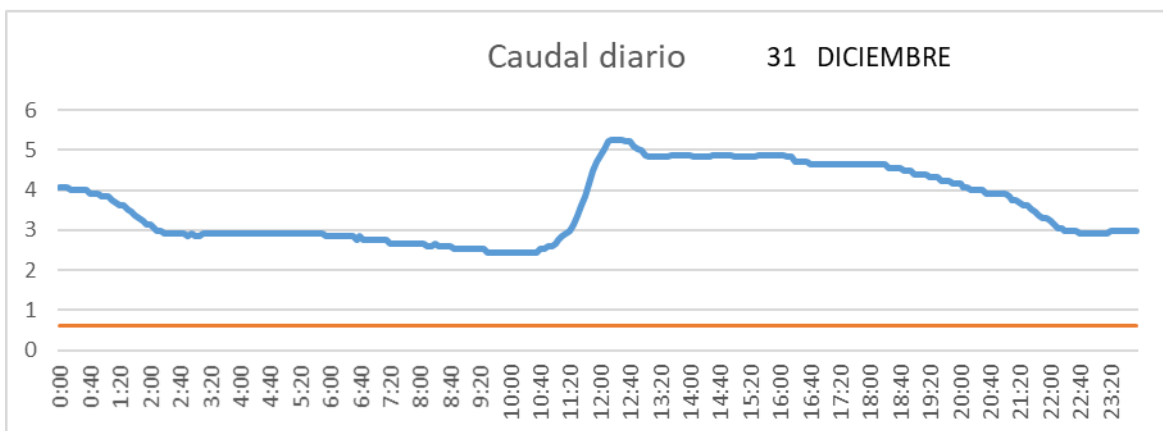
SALIDA TOBA



CUENCA



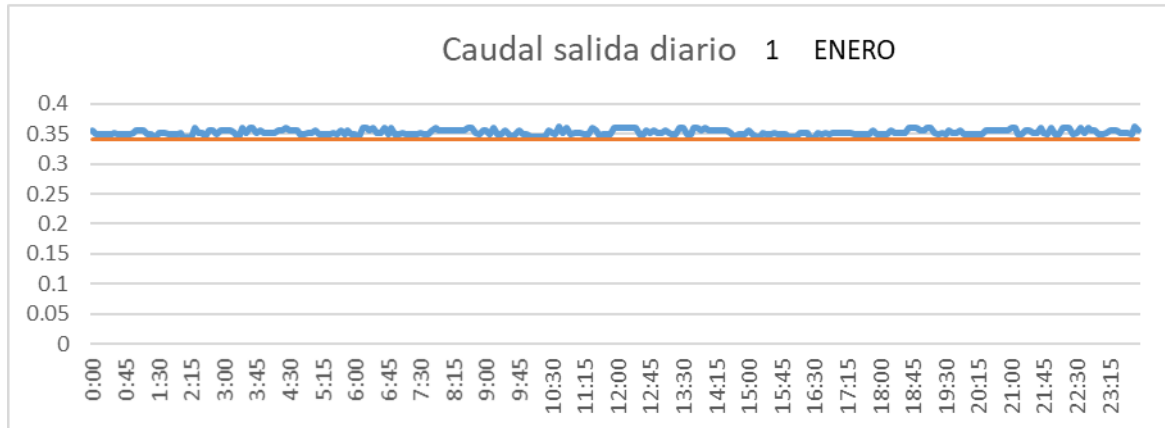
SAN LORENZO PARRILLA



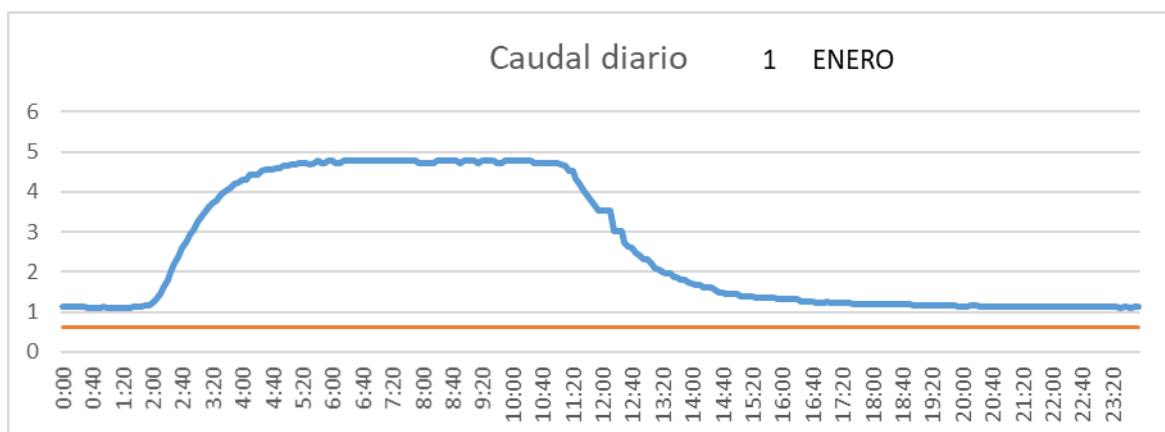
2.3 Año 2018

2.3.1 Enero

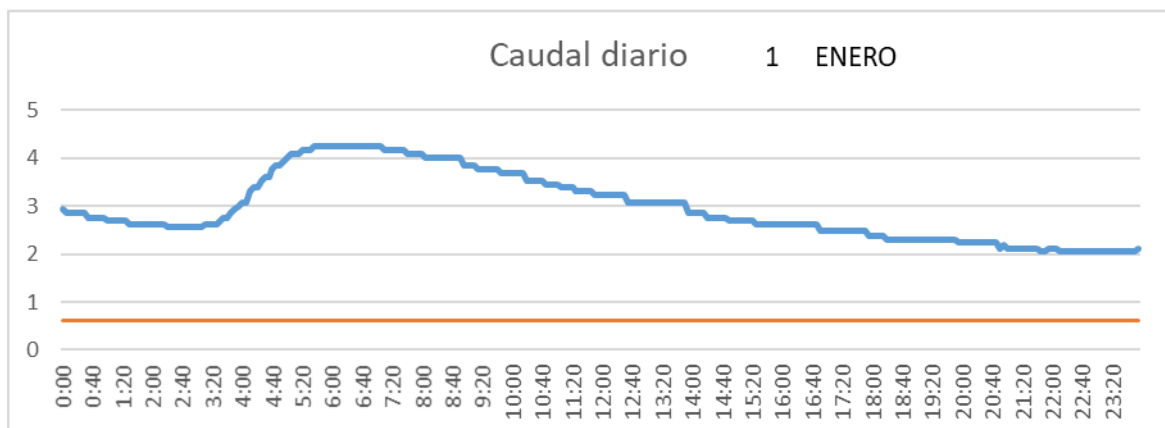
SALIDA TOBA



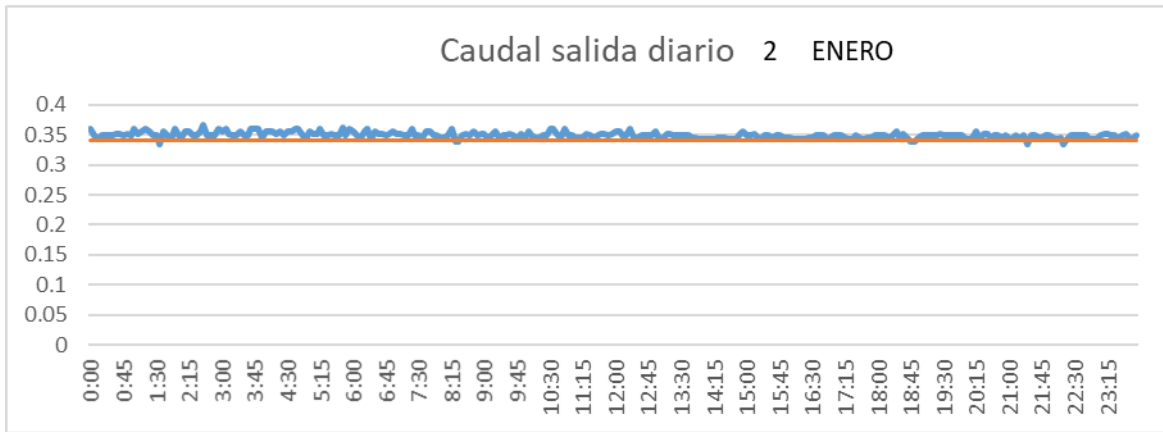
CUENCA



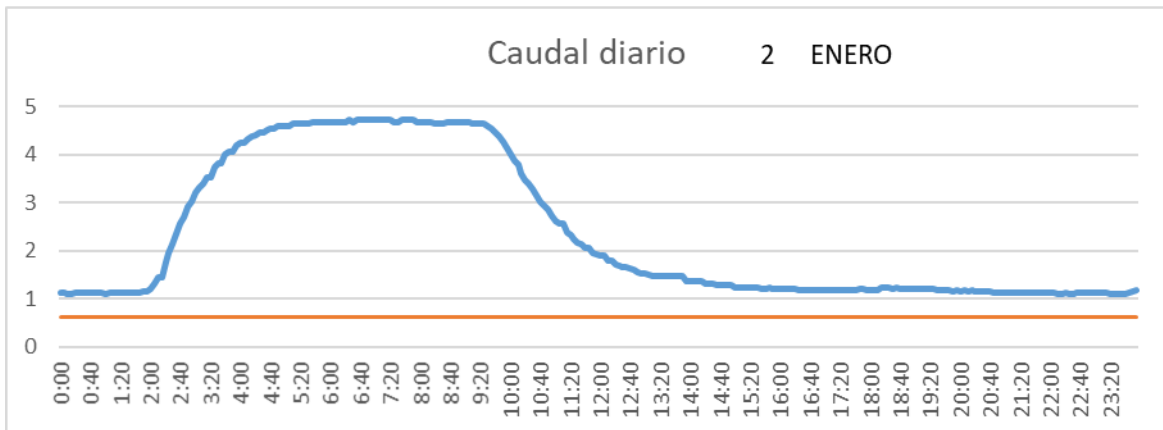
SANLORENZO PARRILLA



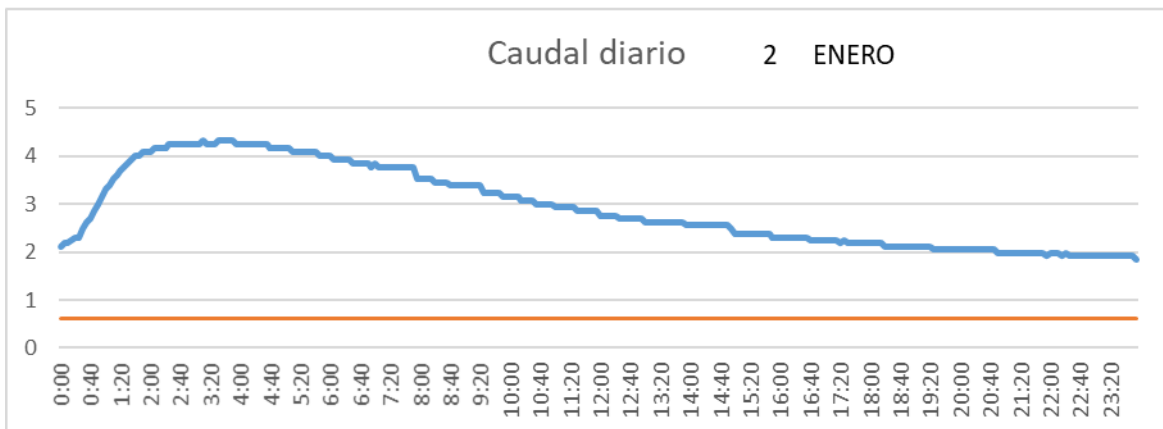
SALIDA TOBA



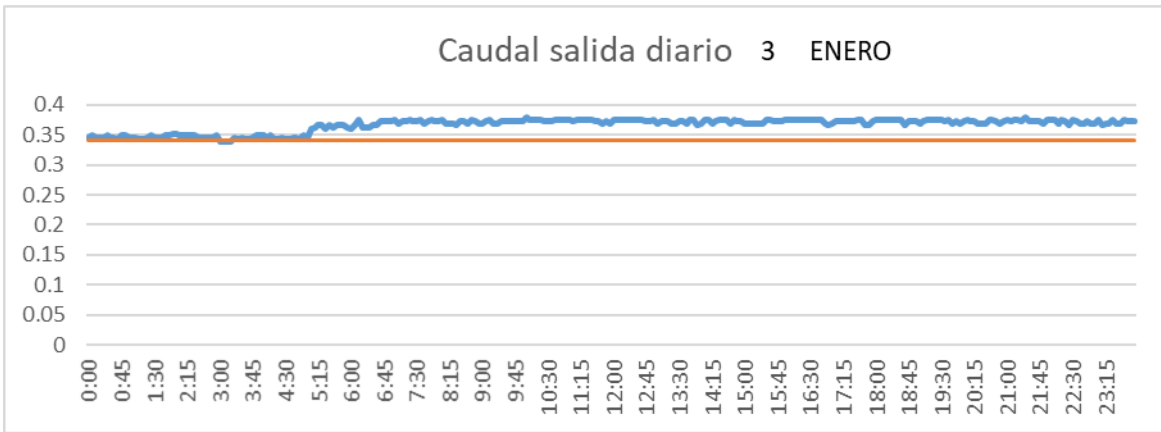
CUENCA



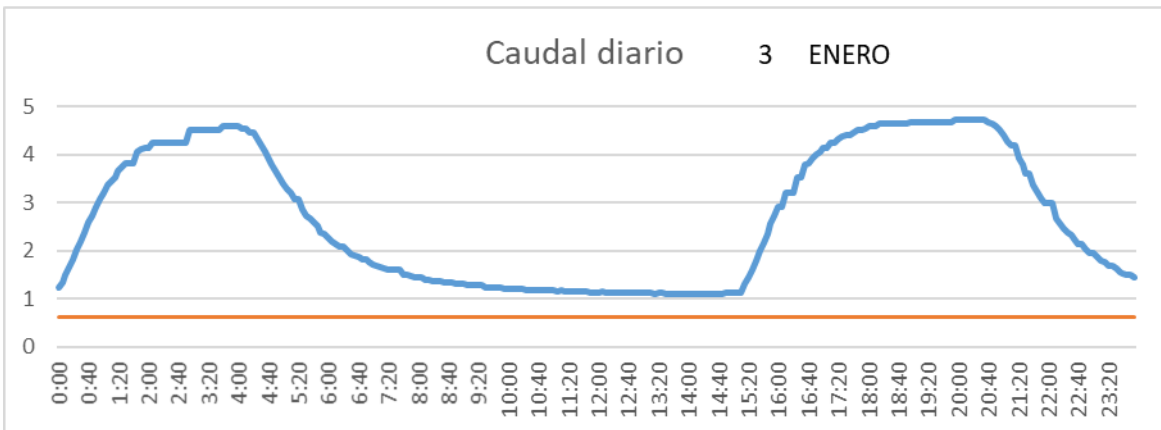
SAN LORENZO PARRILLA



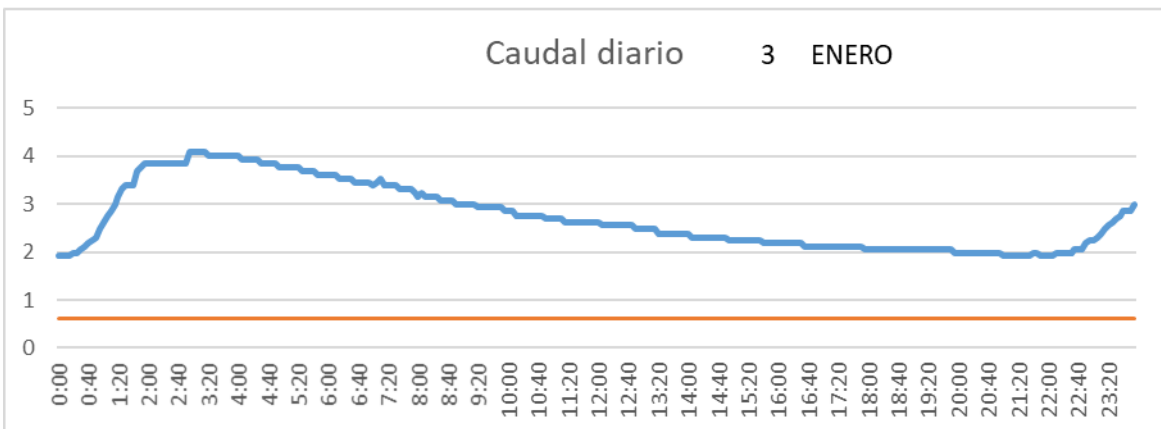
SALIDA TOBA



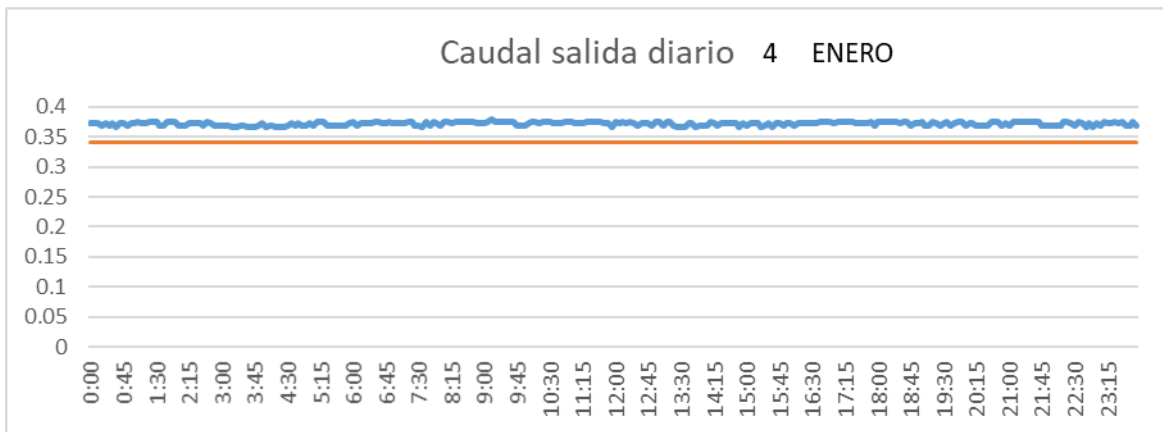
CUENCA



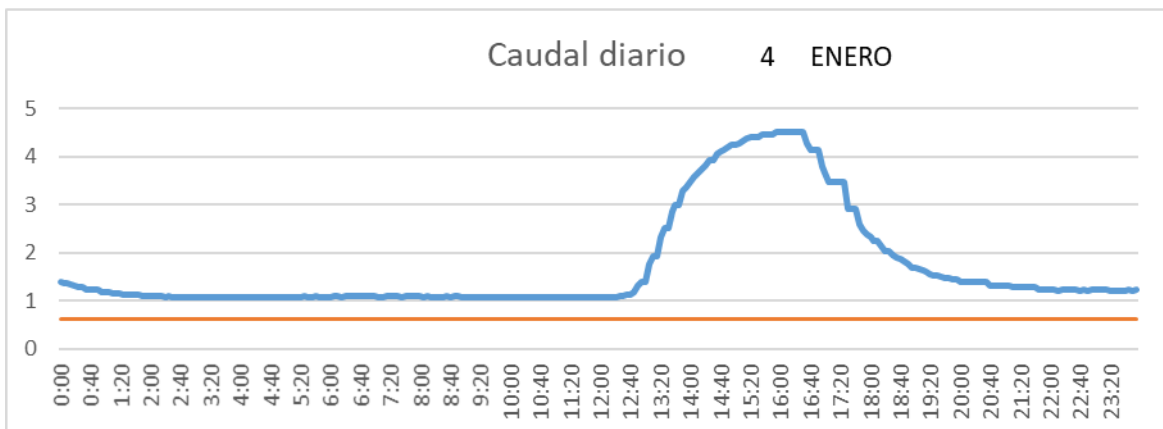
SAN LORENZO PARRILLA



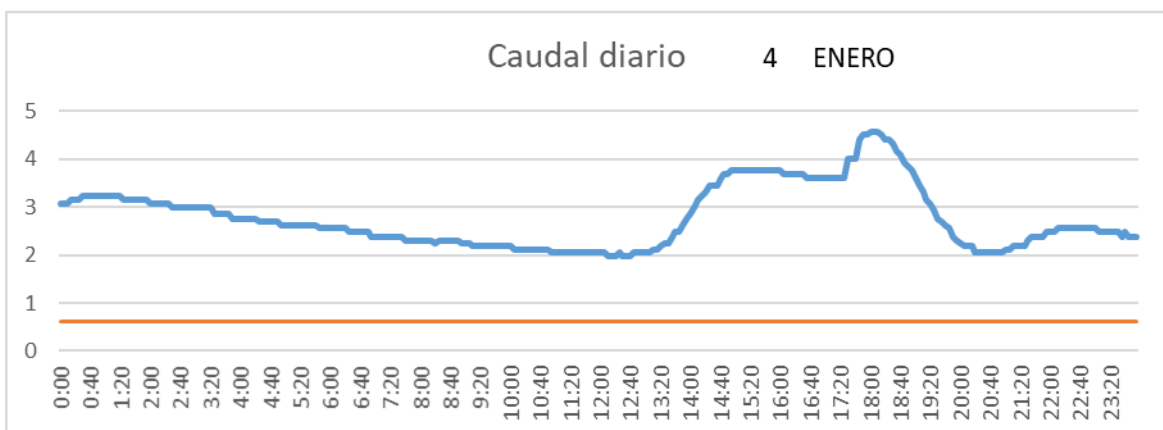
SALIDA TOBA



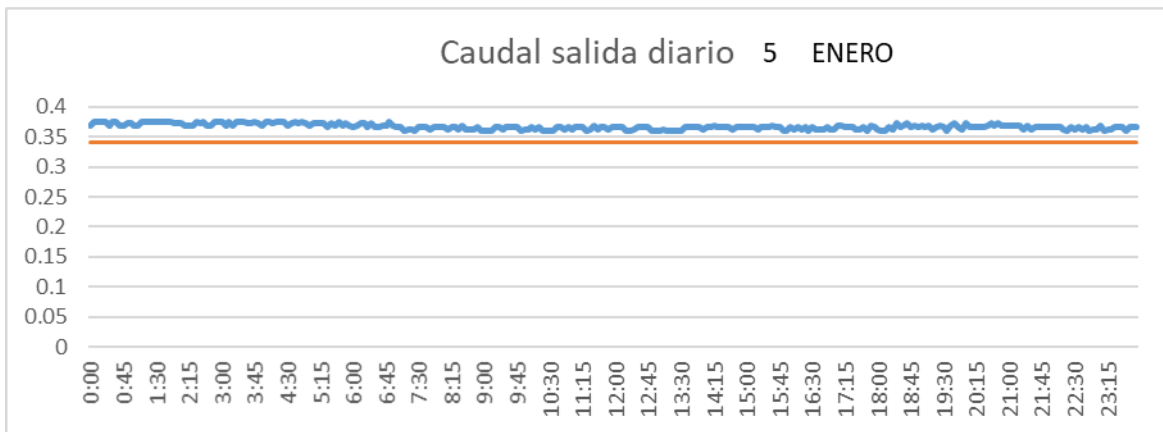
CUENCA



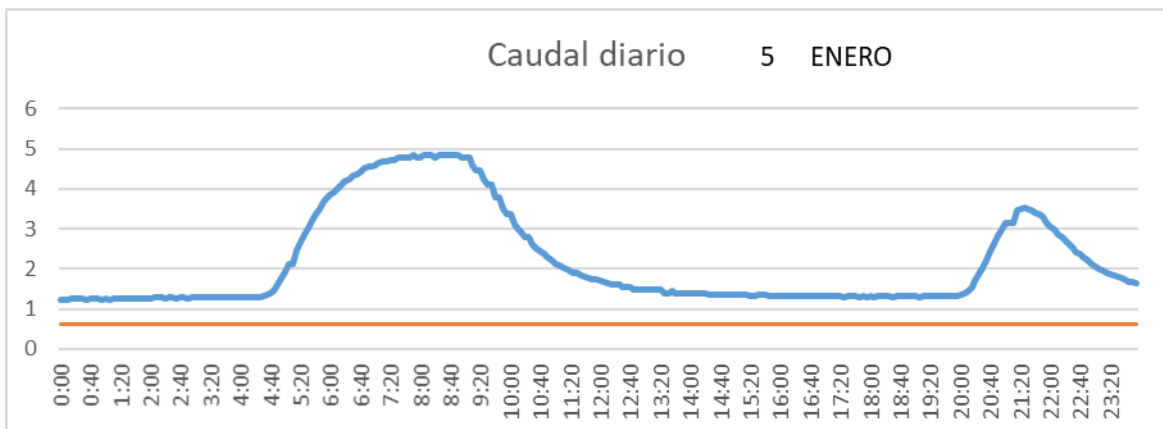
SAN LORENZO PARRILLA



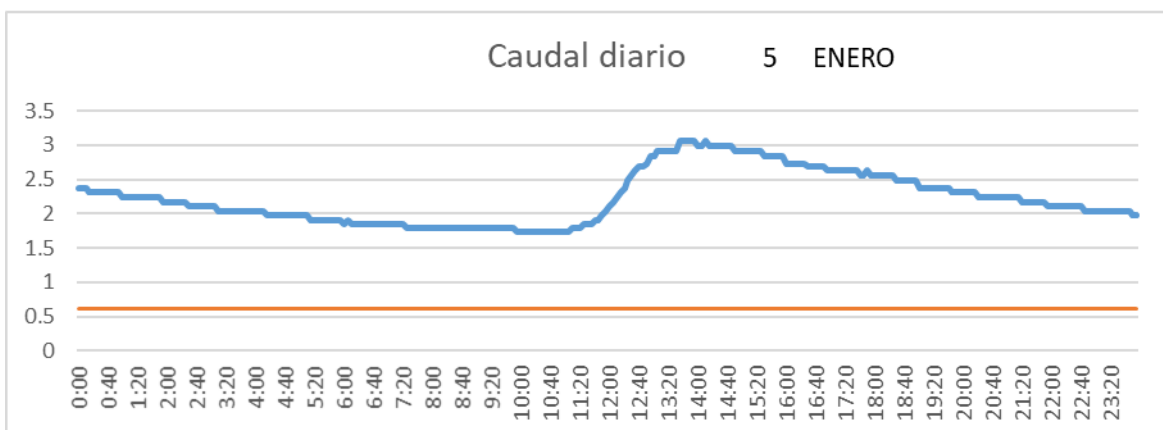
SALIDA TOBA



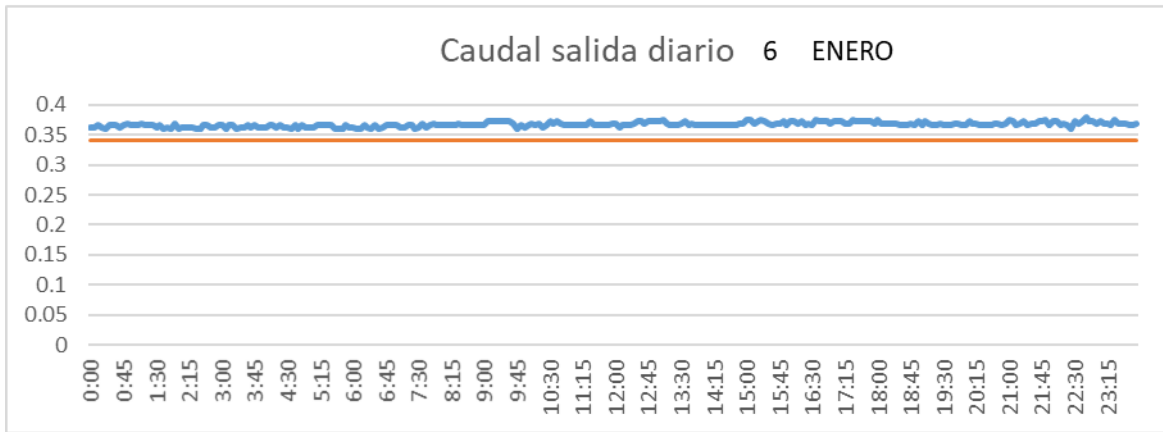
CUENCA



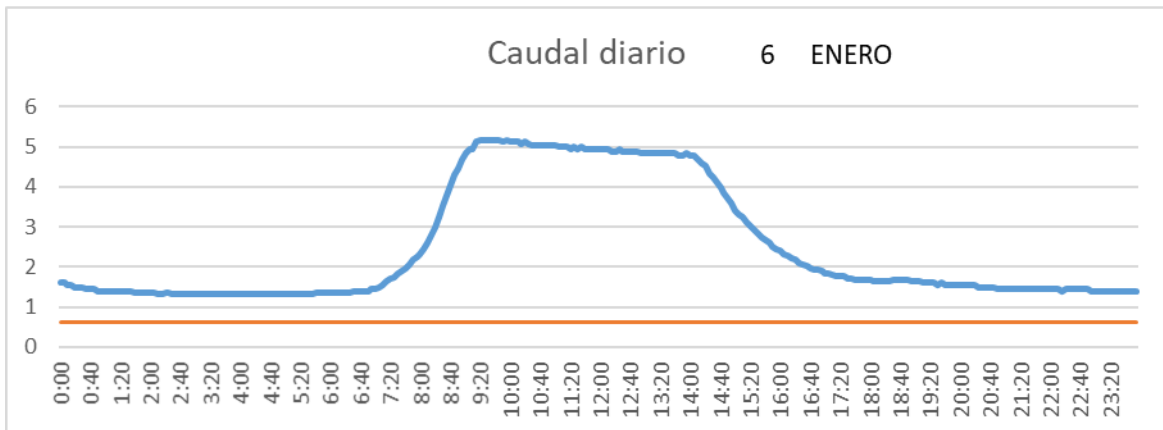
SAN LORENZO PARRILLA



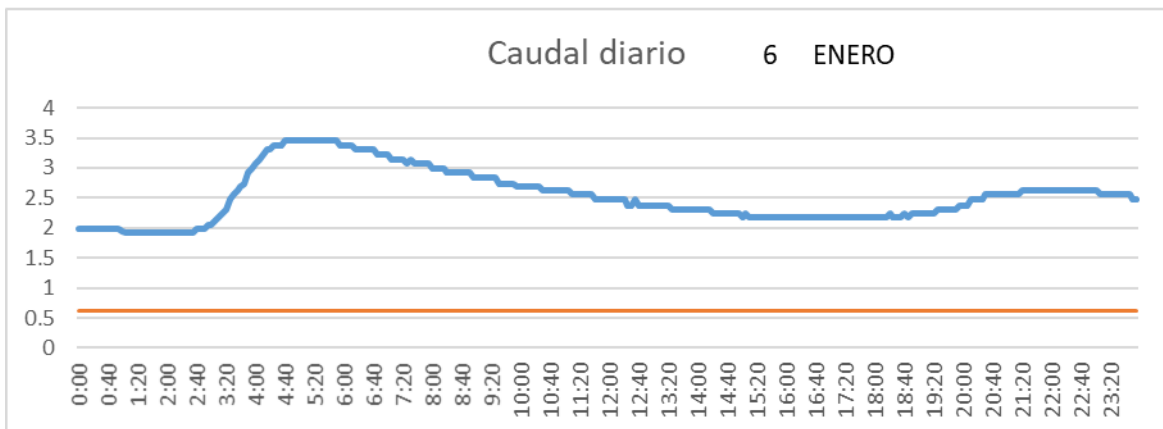
SALIDA TOBA



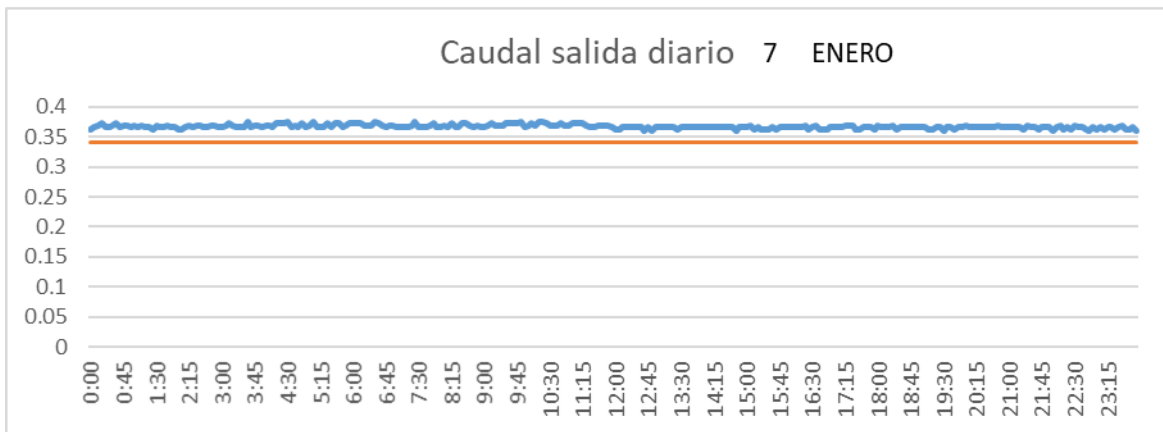
CUENCA



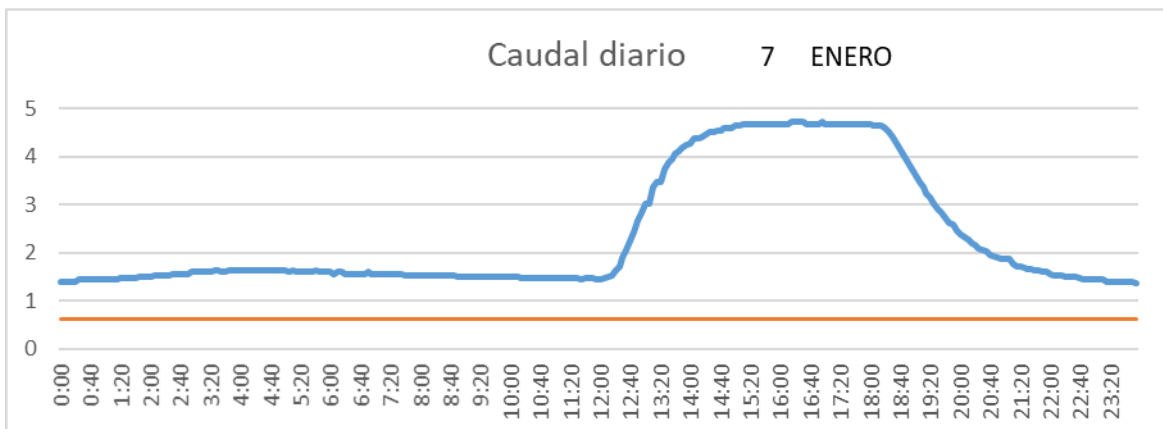
SAN LORENZO PARRILLA



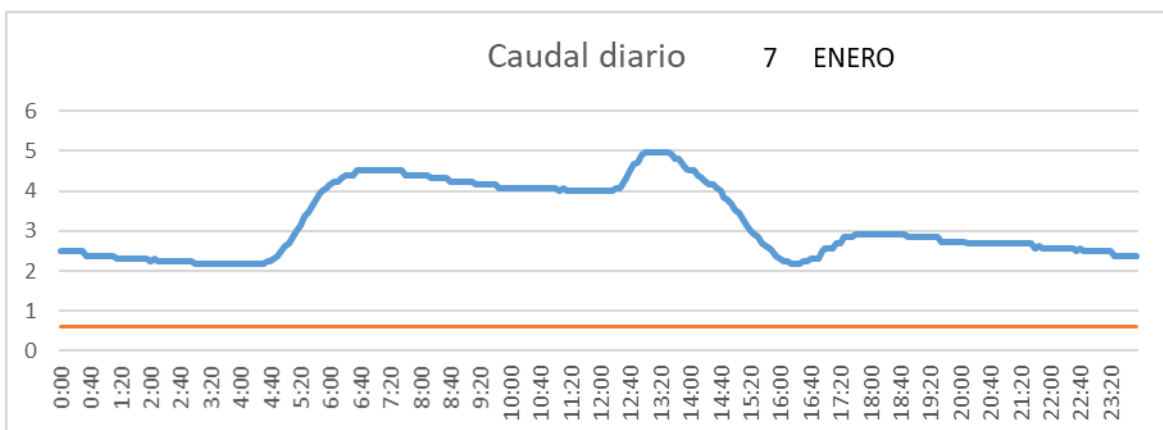
SALIDA TOBA



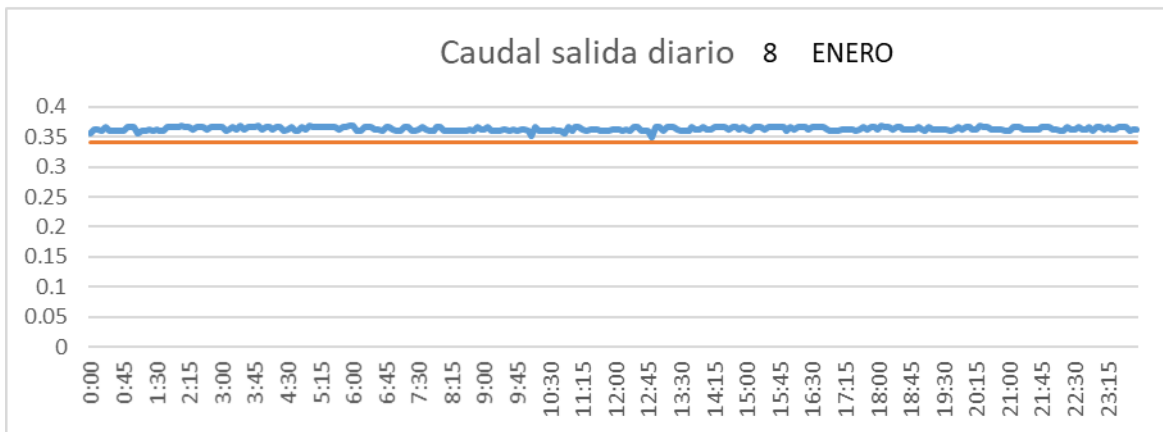
CUENCA



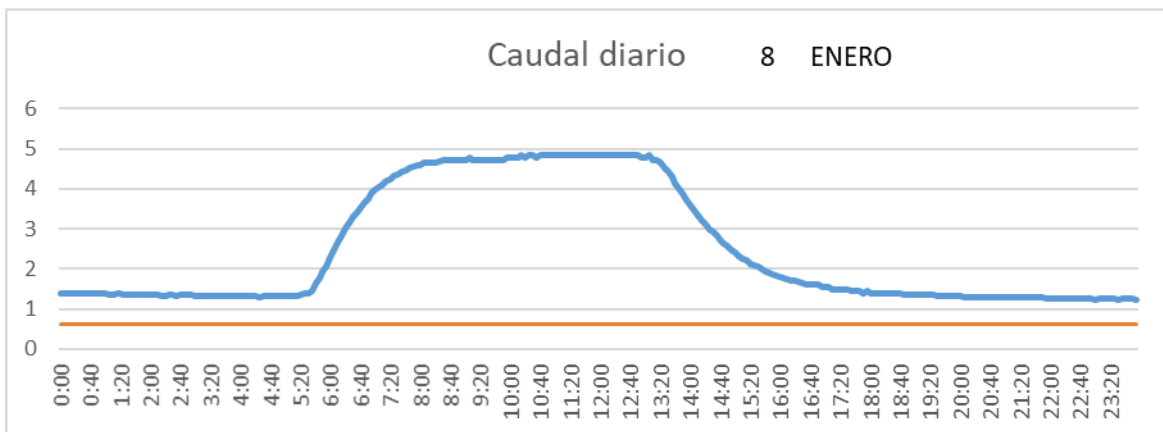
SAN LORENZO PARRILLA



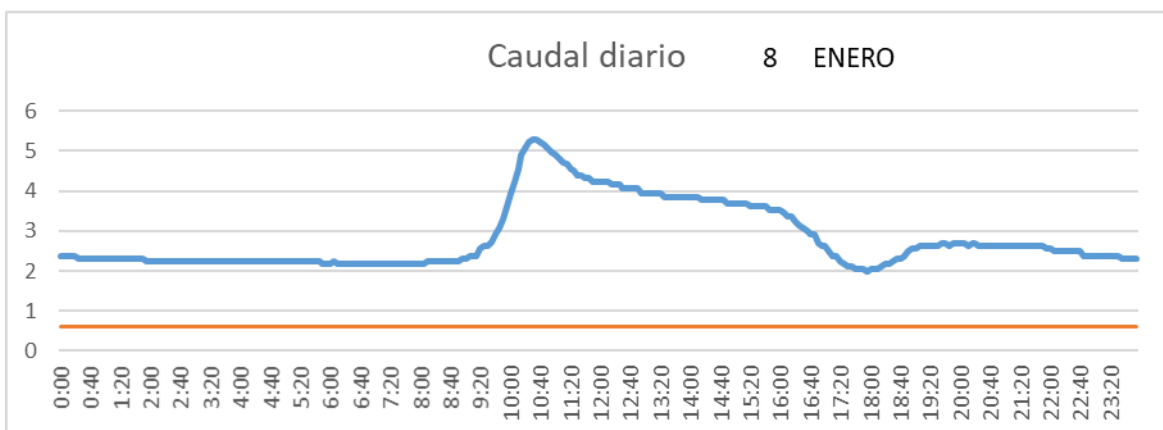
SALIDA TOBA



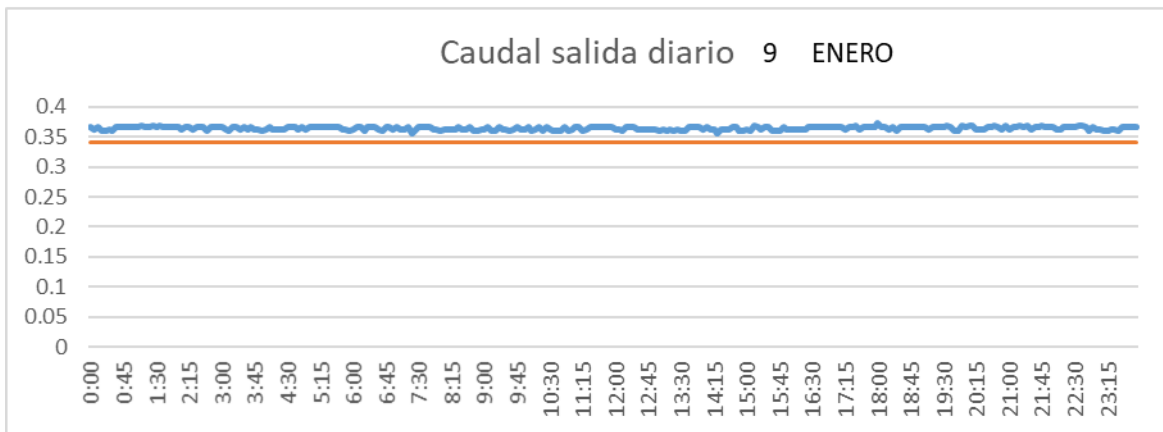
CUENCA



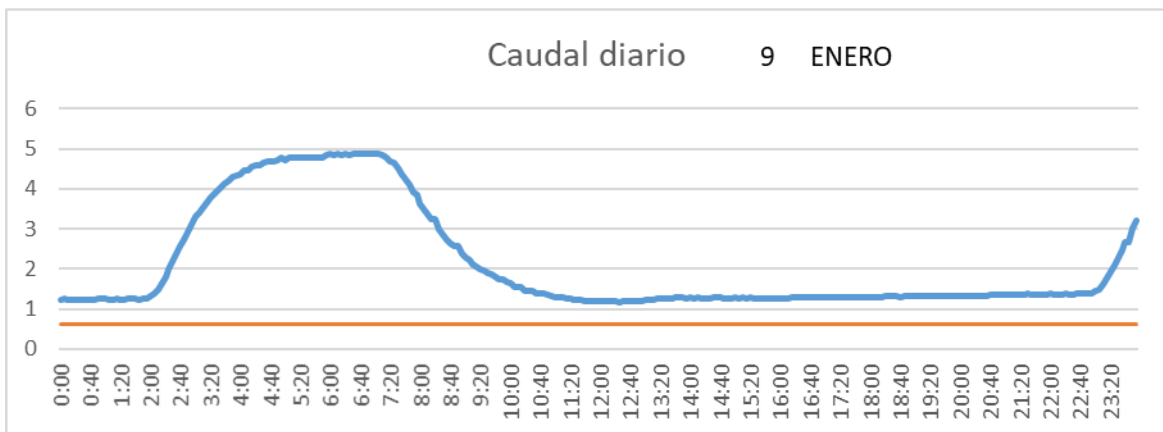
SAN LORENZO PARRILLA



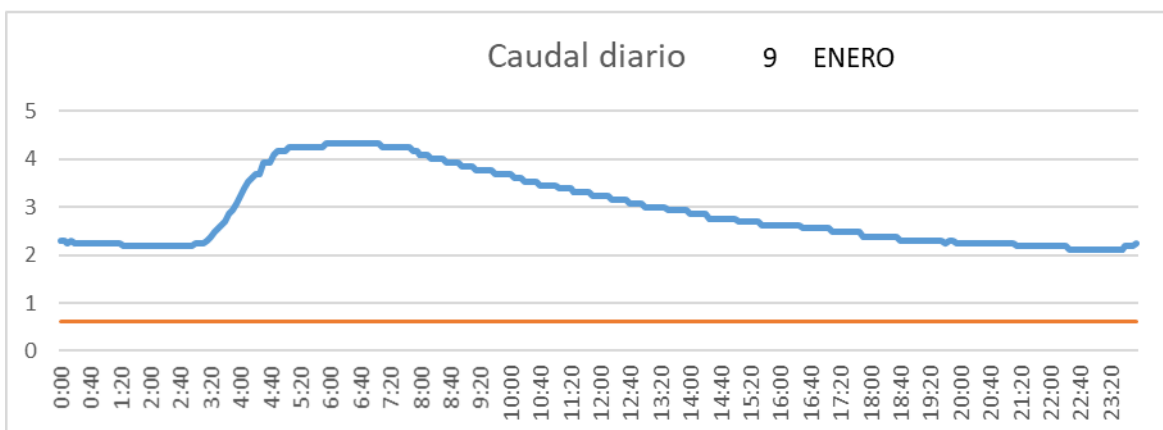
SALIDA TOBA



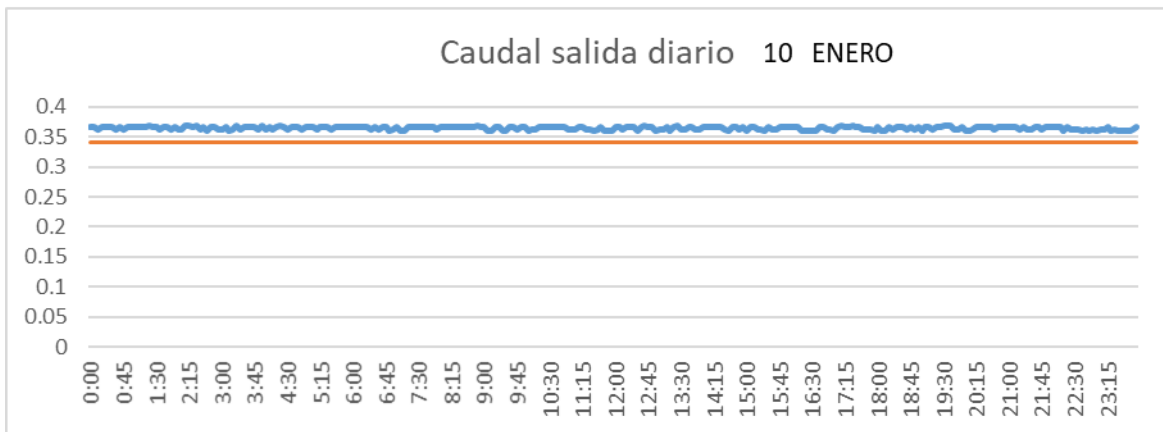
CUENCA



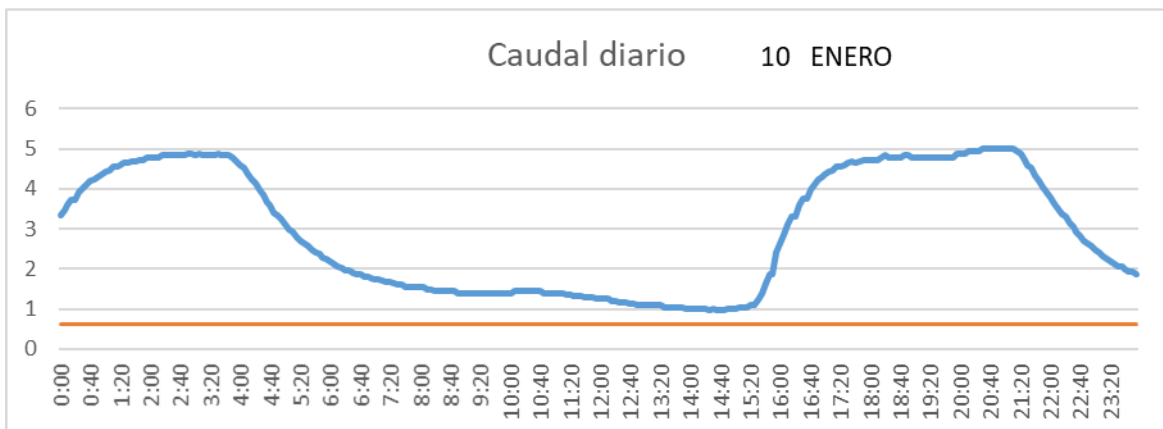
SAN LORENZO PARRILLA



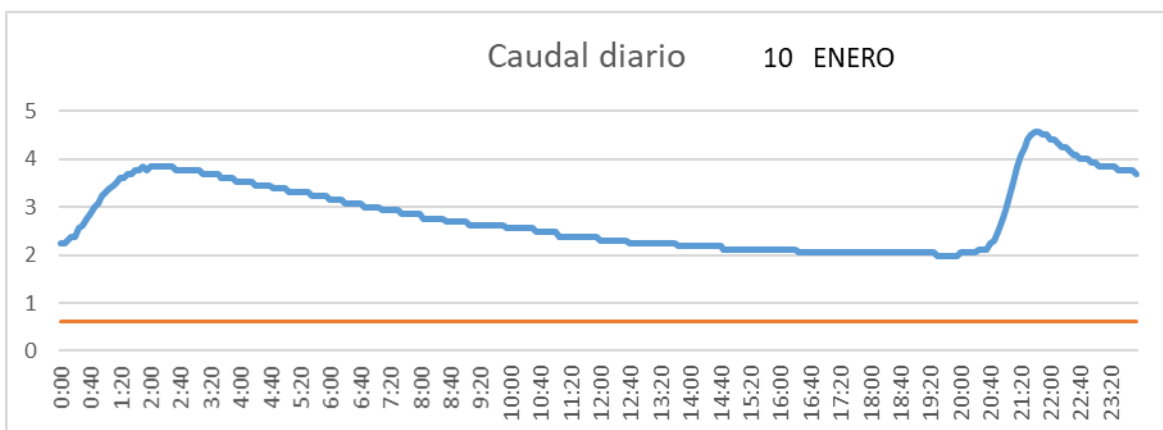
SALIDA TOBA



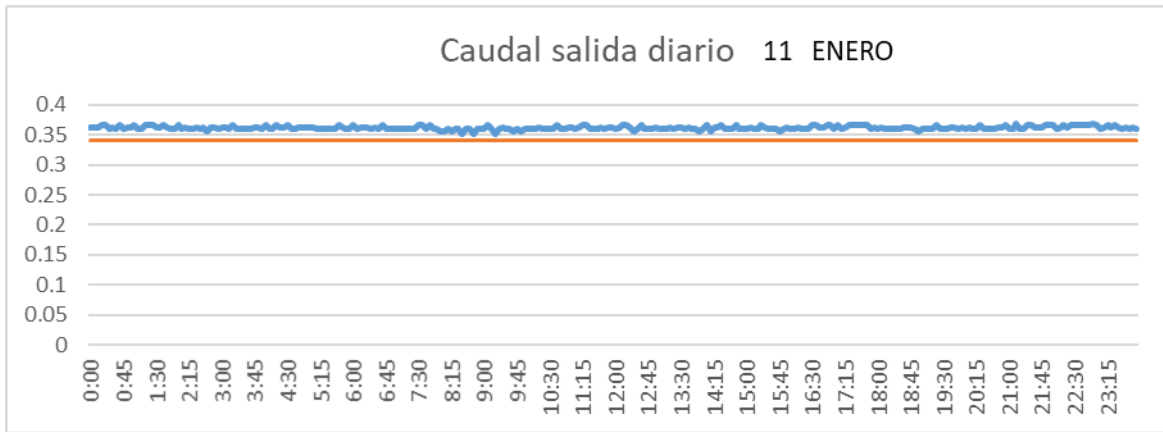
CUENCA



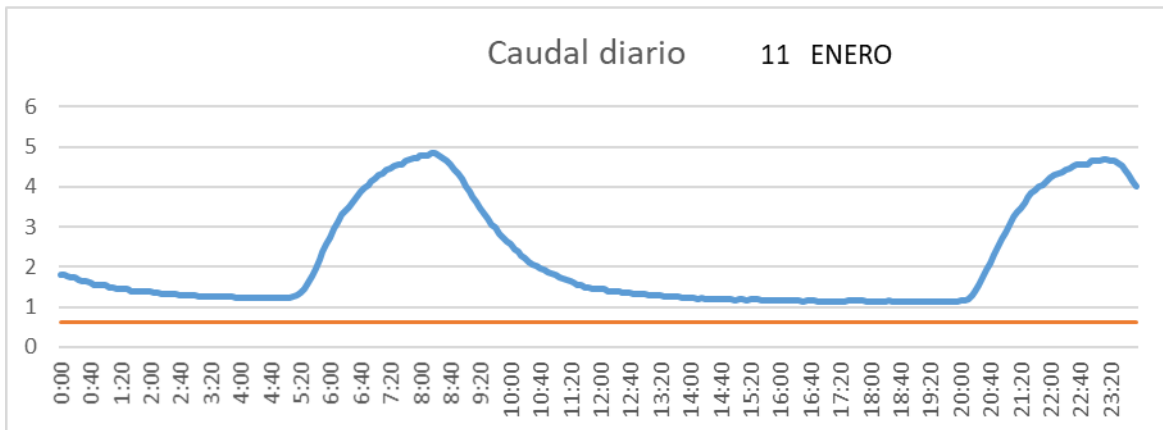
SAN LORENZO PARRILLA



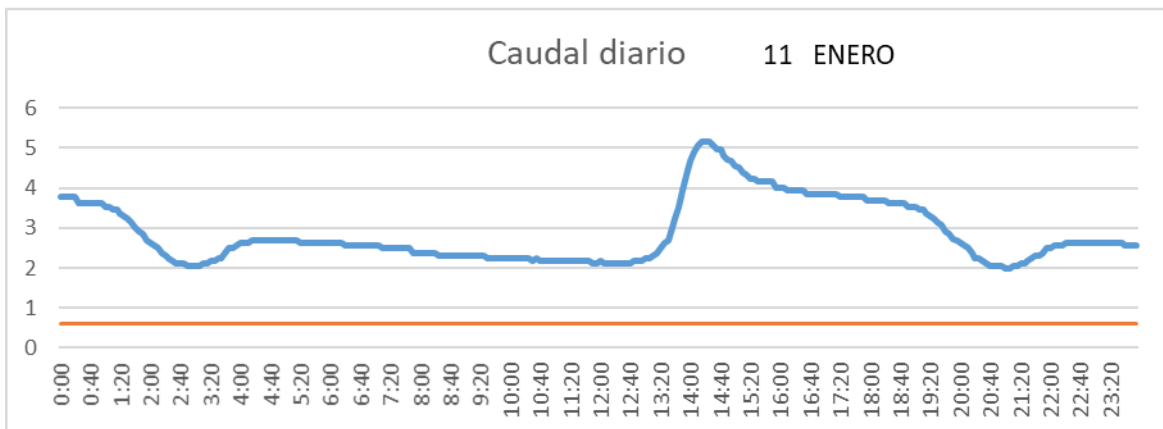
SALIDA TOBA



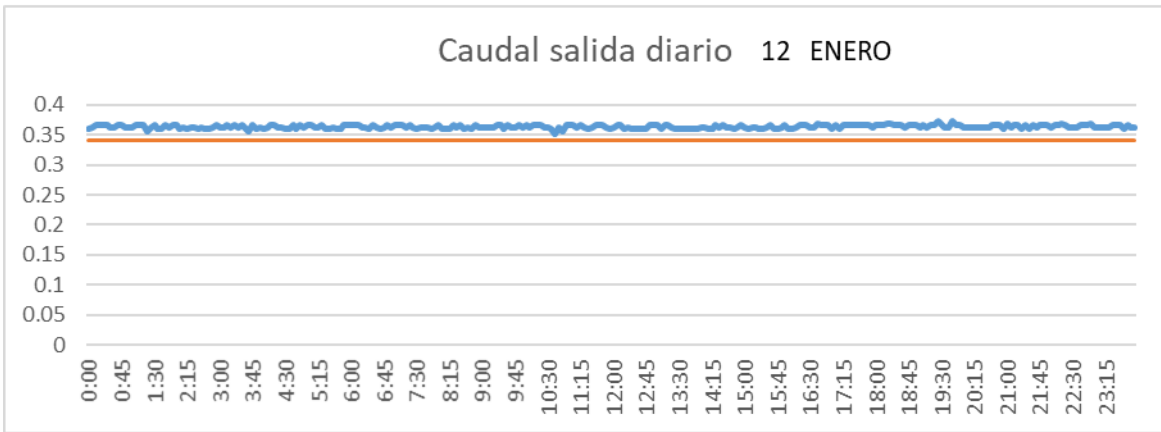
CUENCA



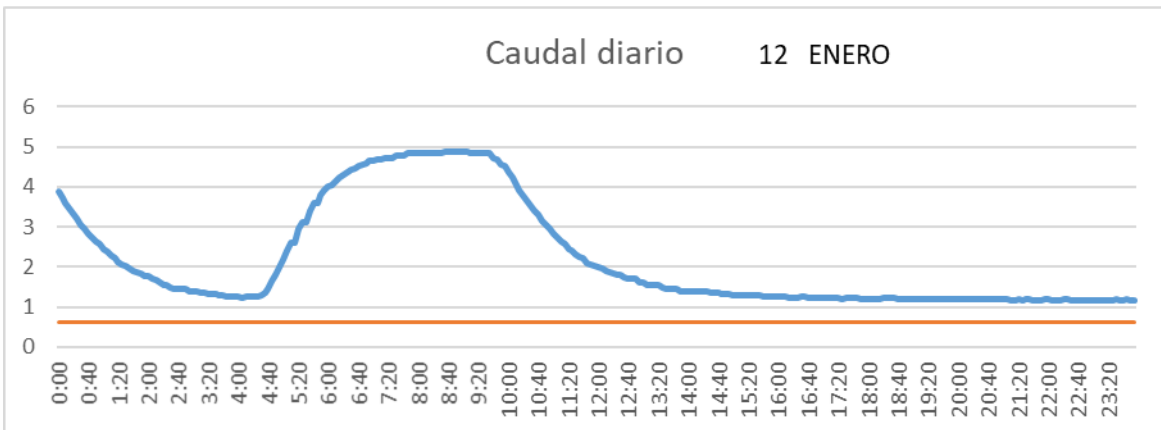
SAN LORENZO PARRILLA



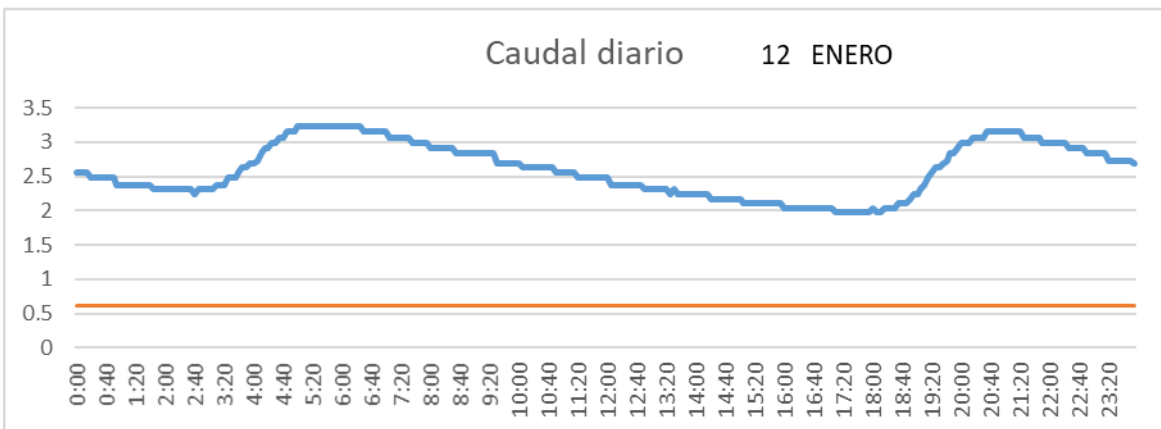
SALIDA TOBA



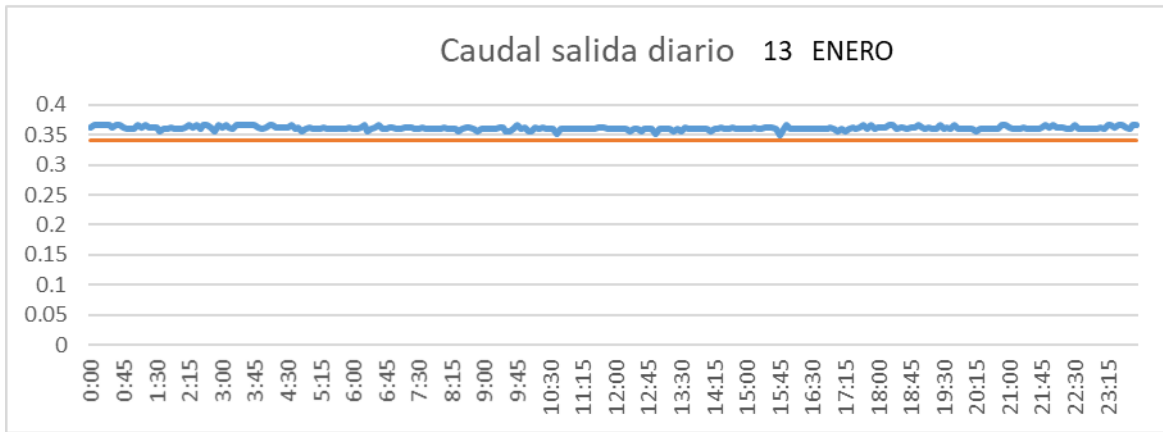
CUENCA



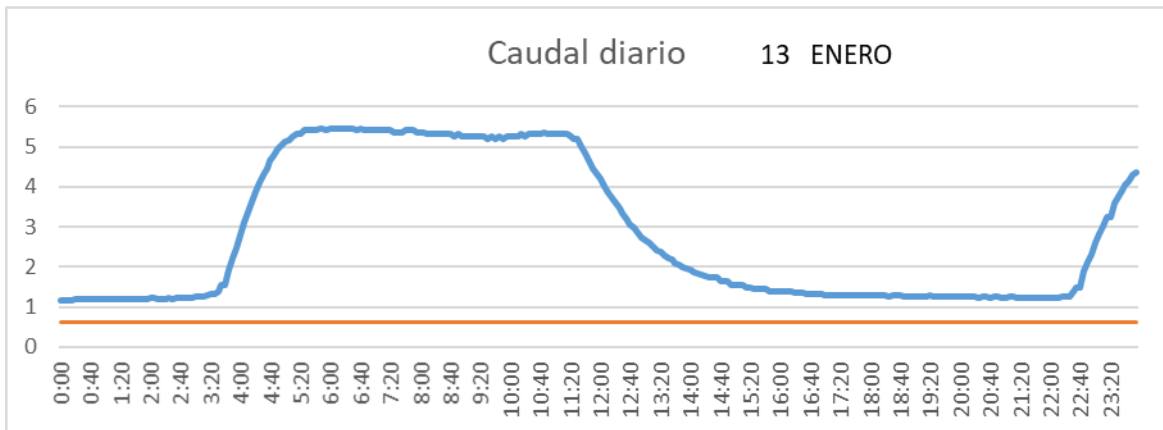
SAN LORENZO PARRILLA



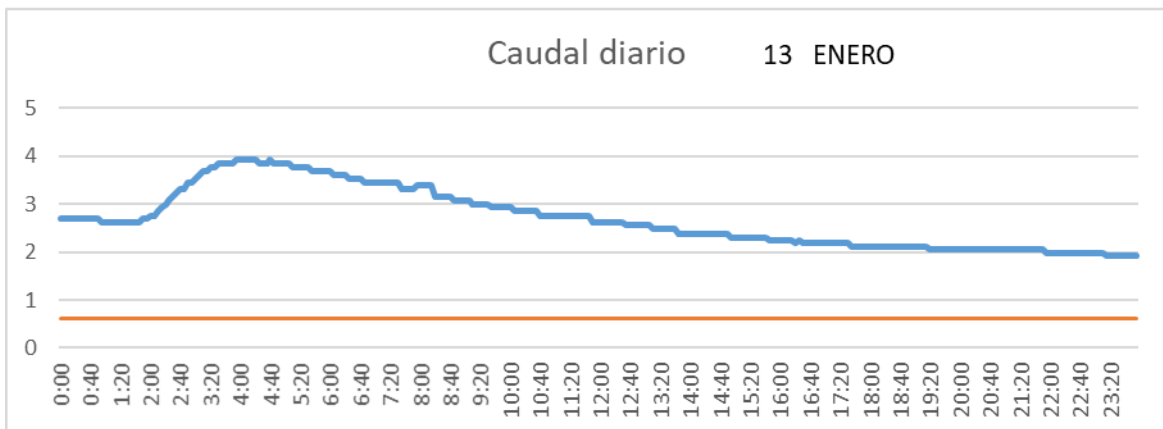
SALIDA TOBA



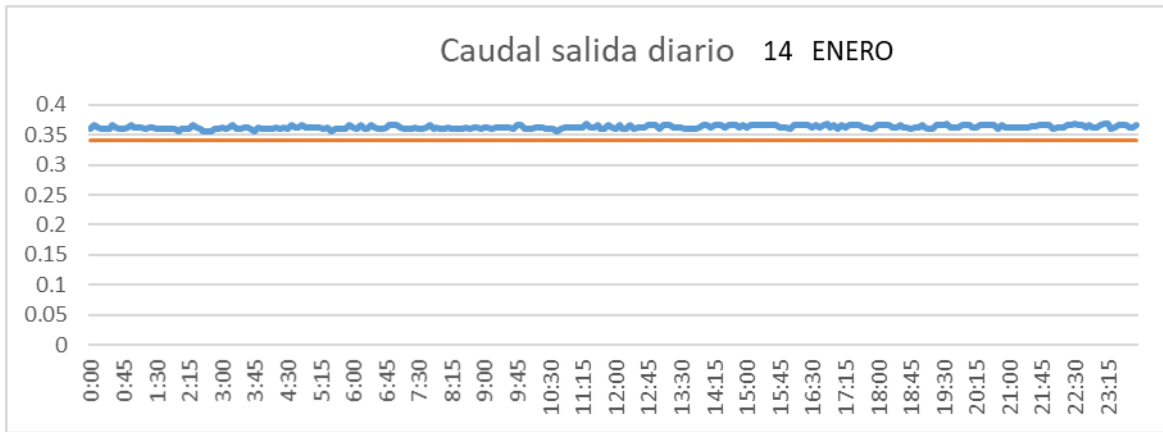
CUENCA



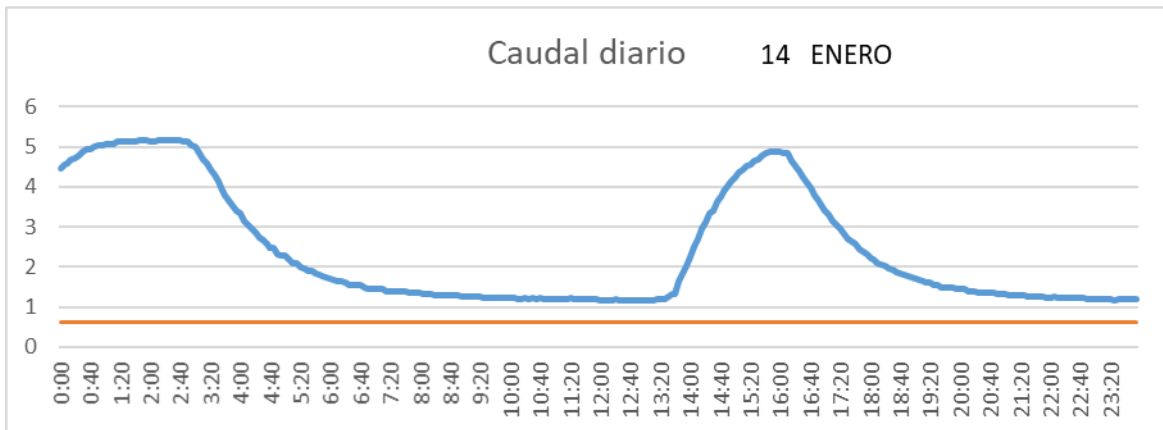
SAN LORENZO PARRILLA



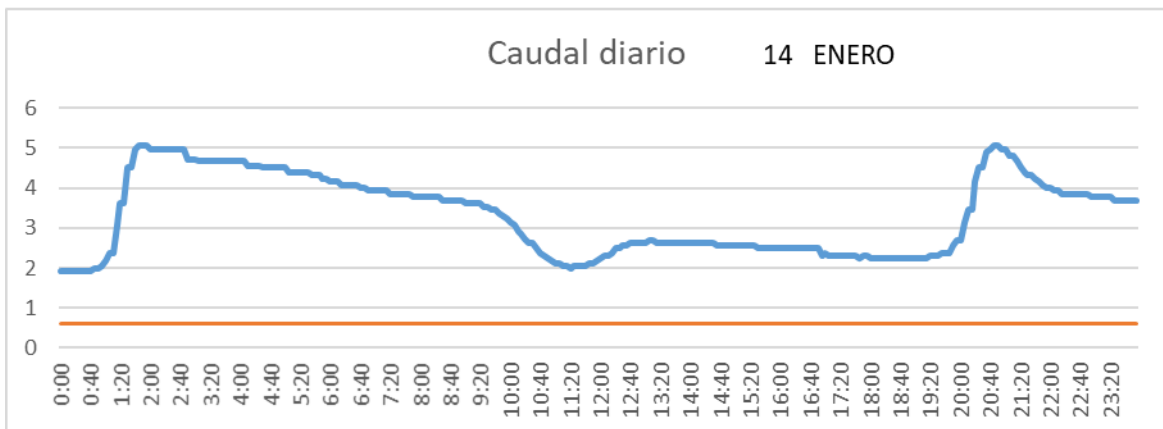
SALIDA TOBA



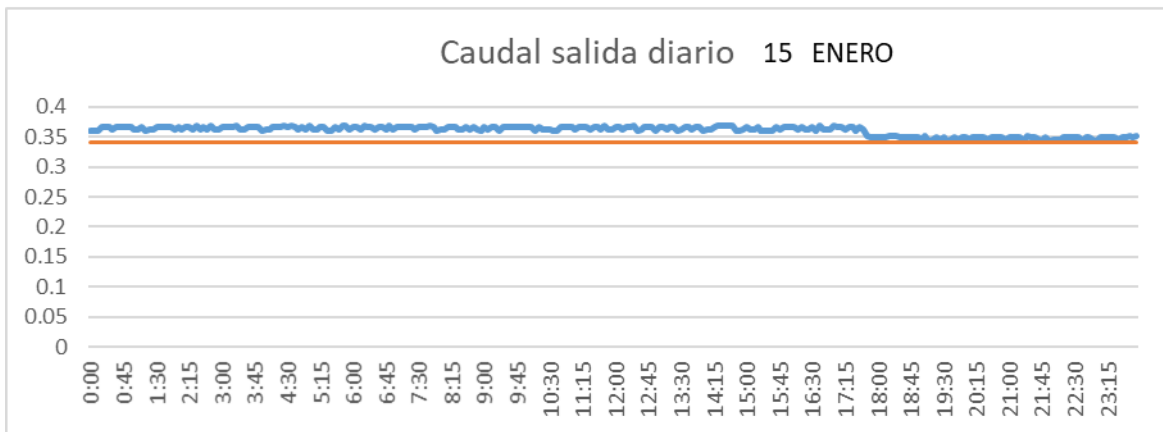
CUENCA



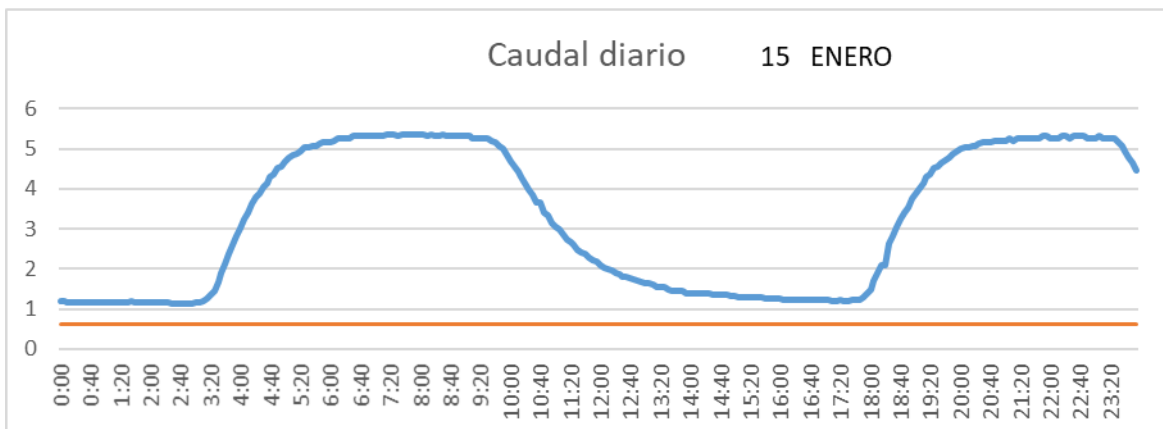
SAN LORENZO PARRILLA



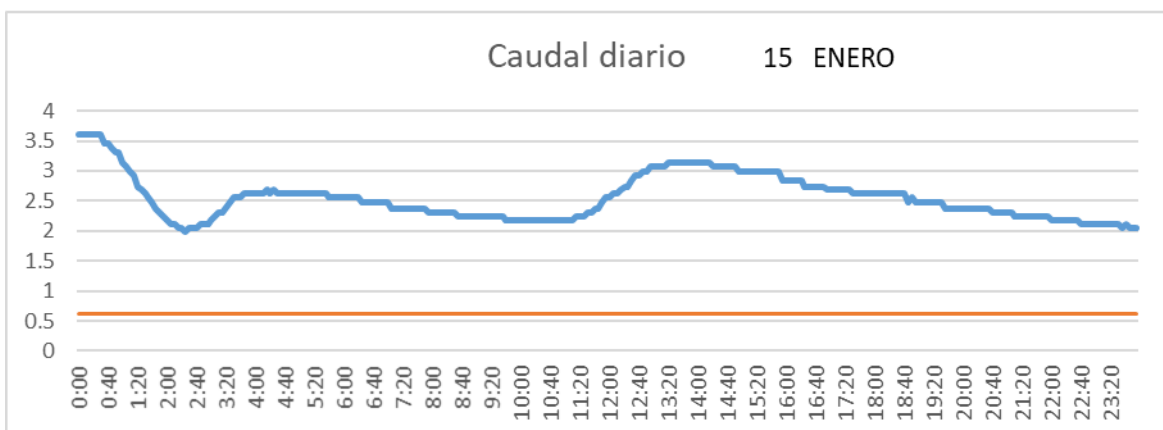
SALIDA TOBA



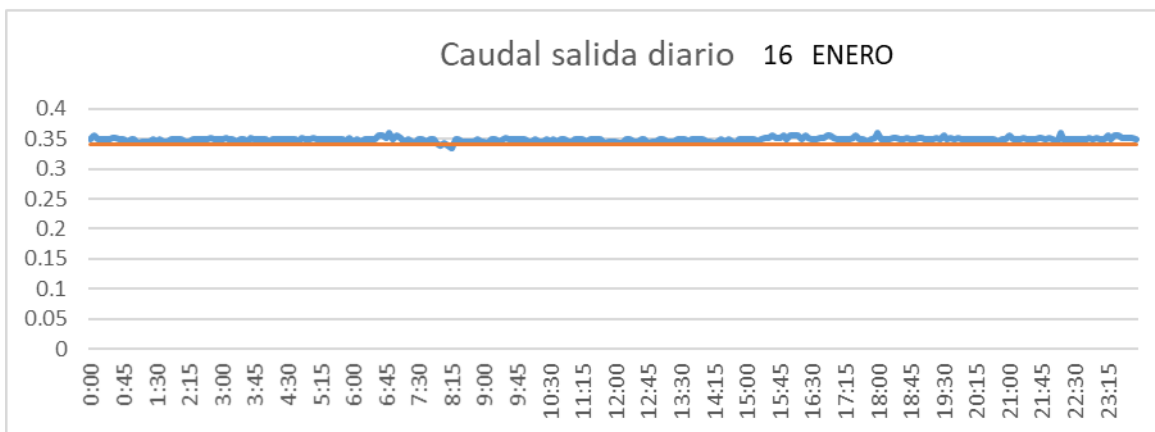
CUENCA



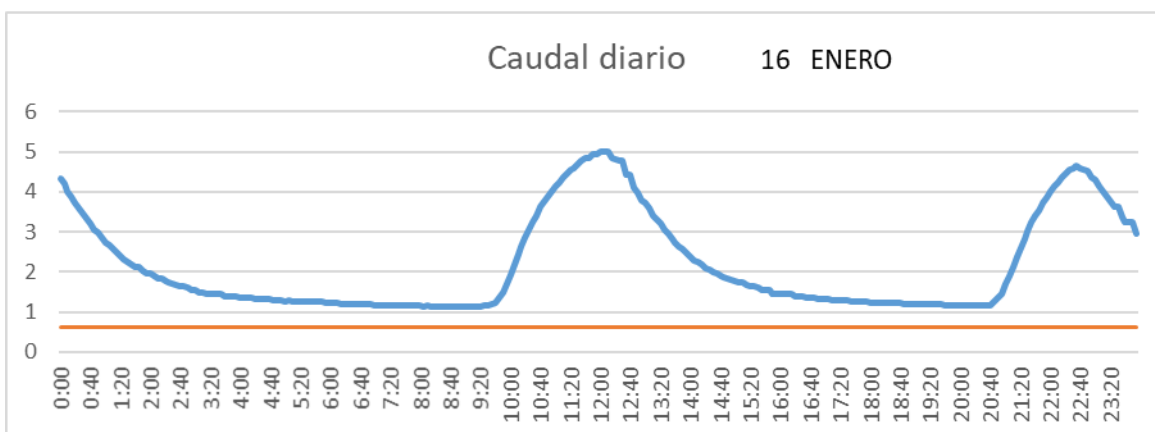
SAN LORENZO PARRILLA



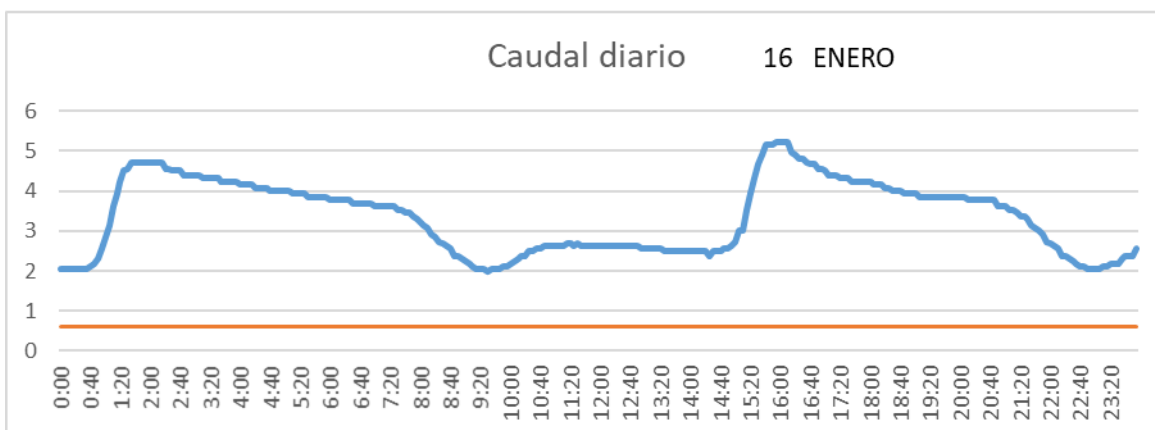
SALIDA TOBA



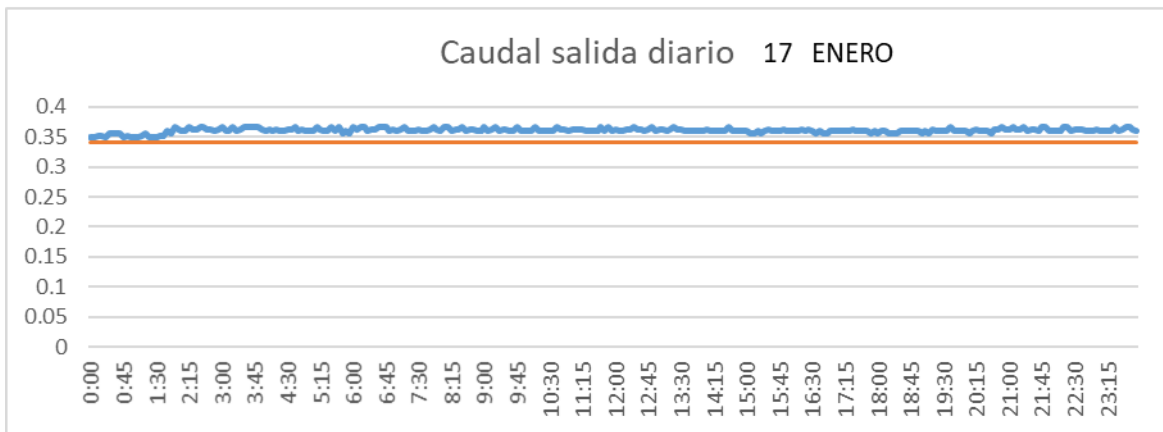
CUENCA



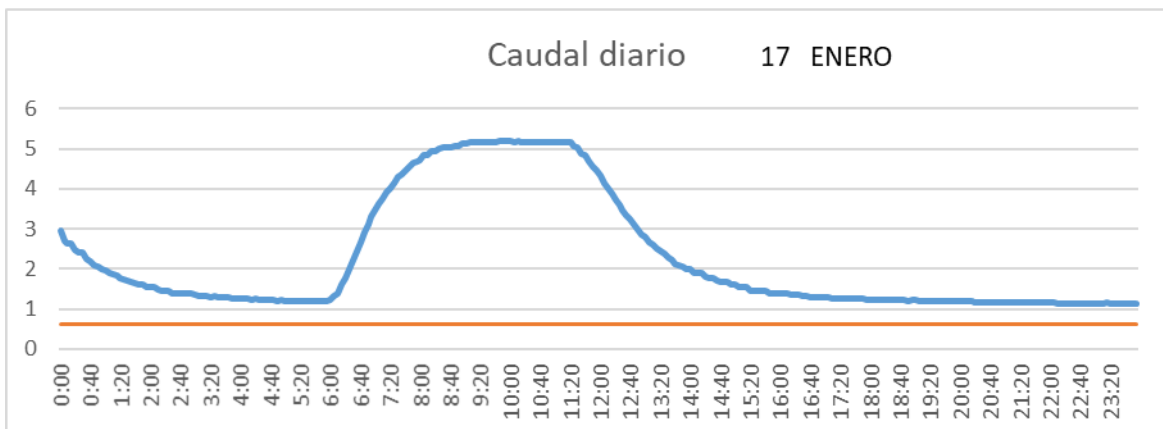
SAN LORENZO PARRILLA



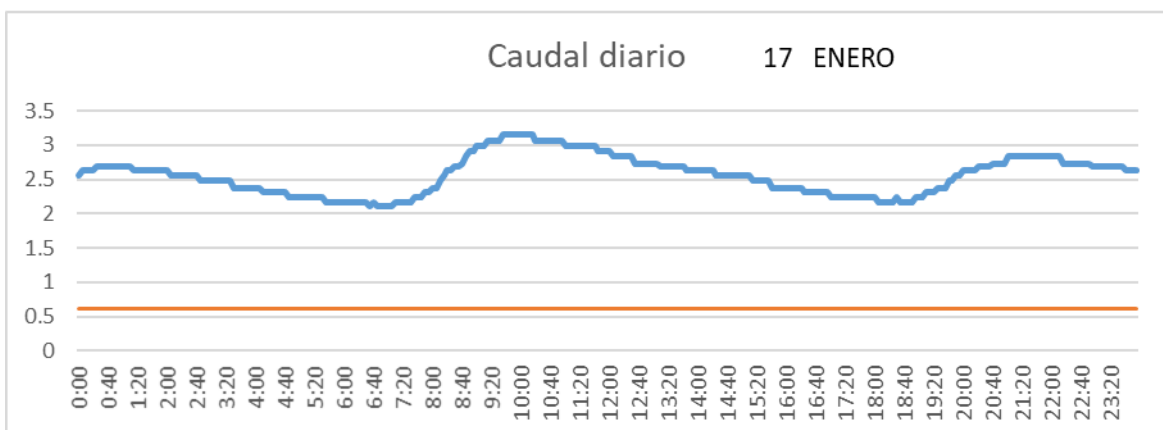
SALIDA TOBA



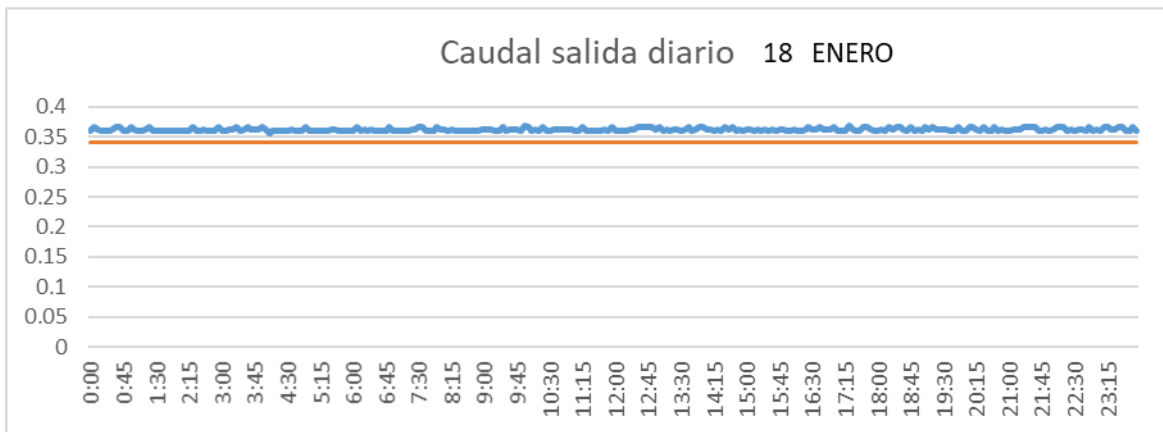
CUENCA



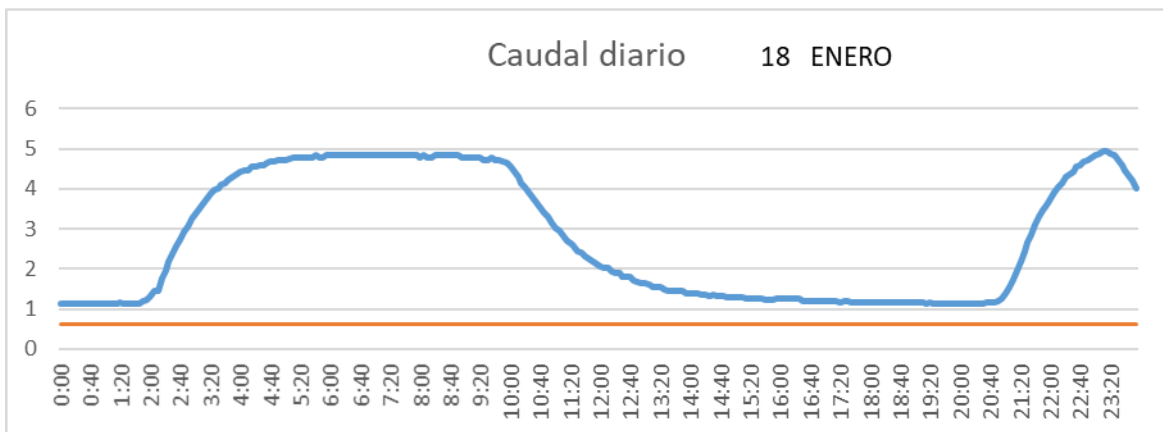
SAN LORENZO PARRILLA



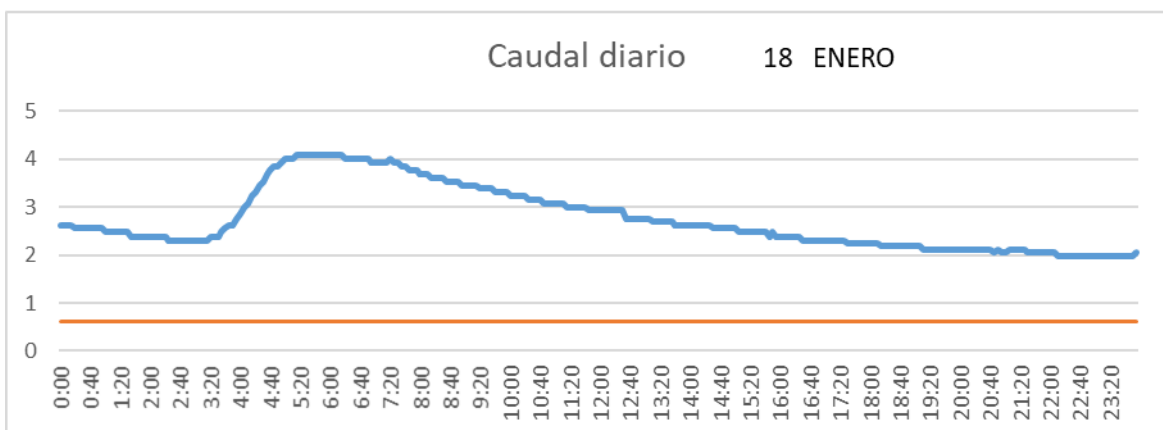
SALIDA TOBA



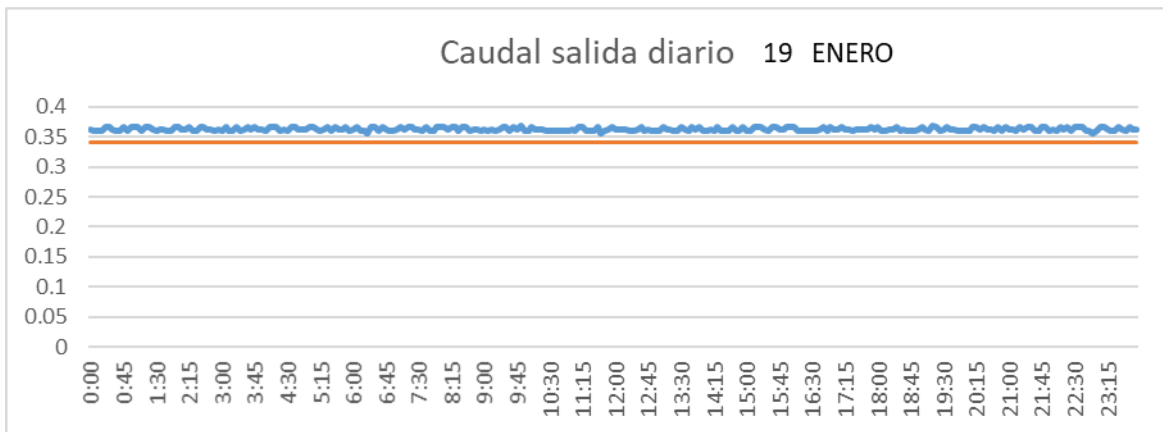
CUENCA



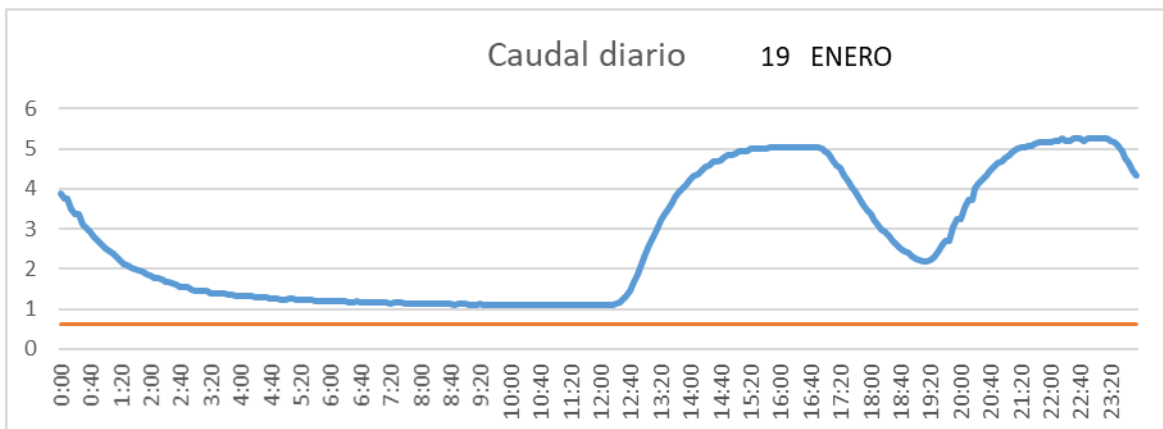
SAN LORENZO PARRILLA



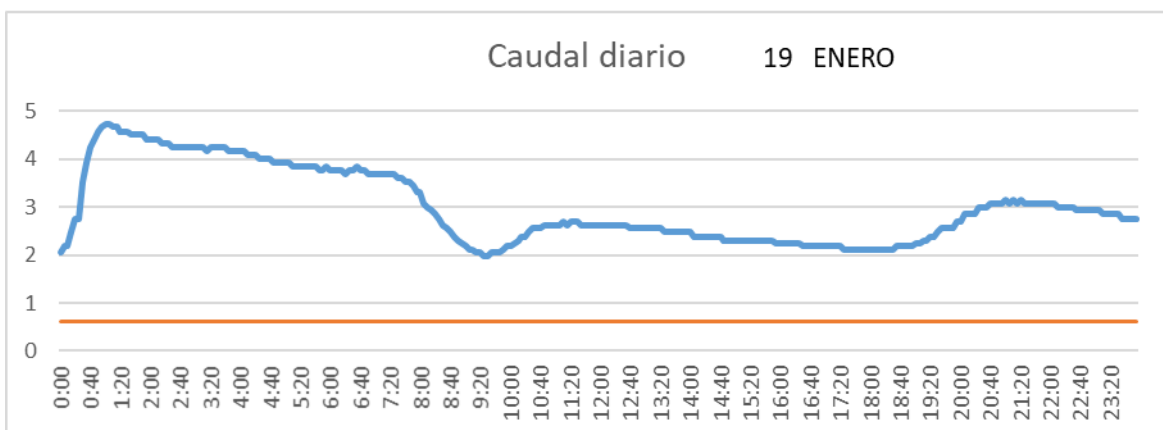
SALIDA TOBA



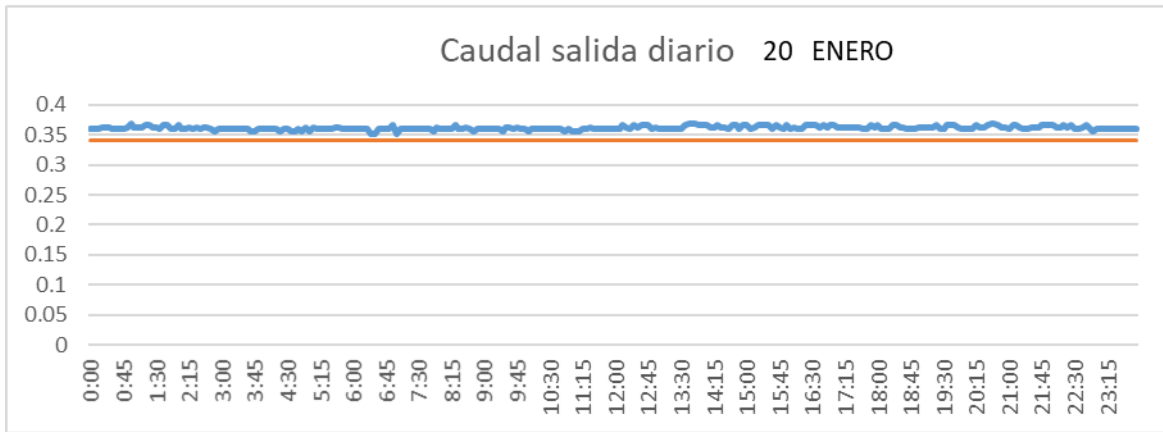
CUENCA



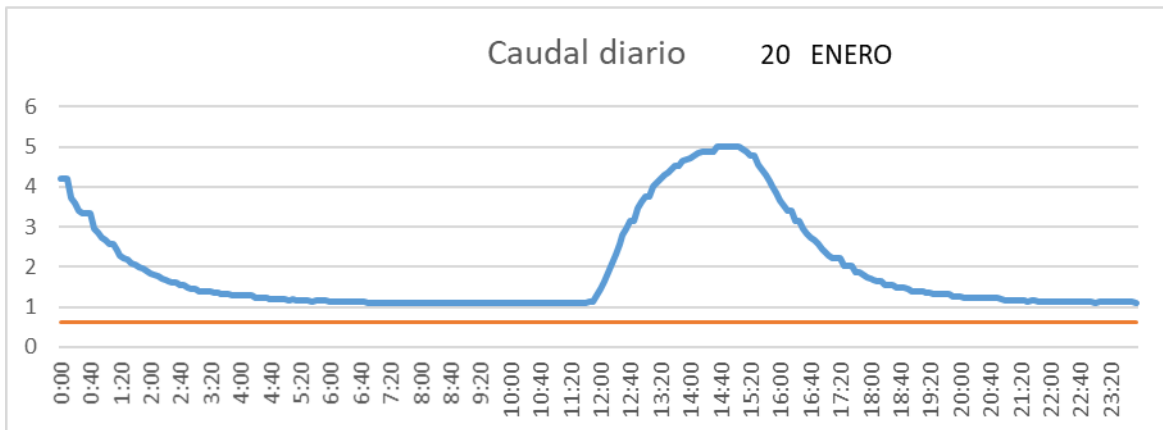
SAN LORENZO PARRILLA



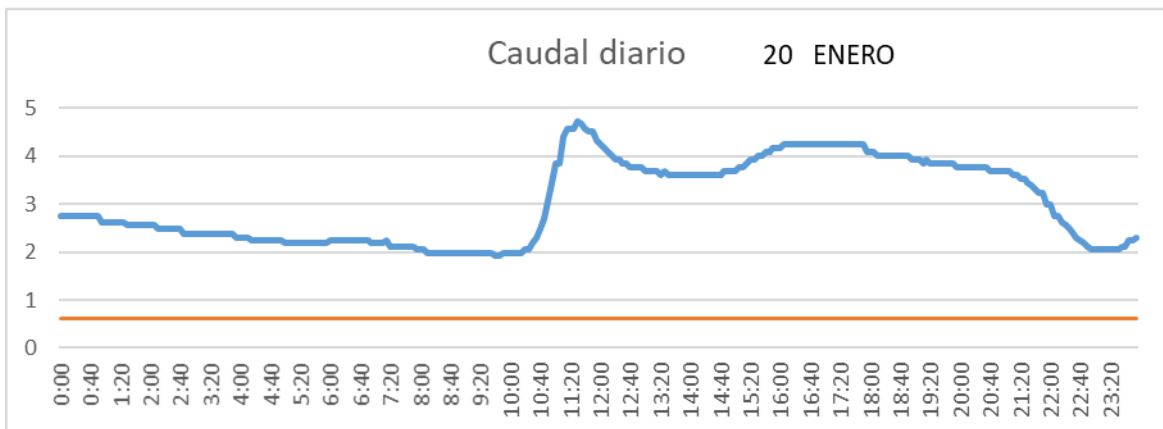
SALIDA TOBA



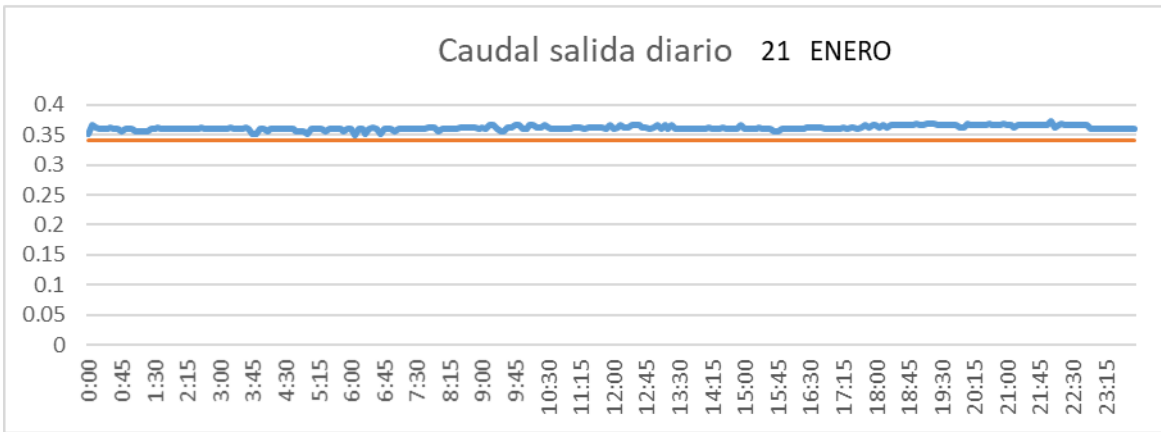
CUENCA



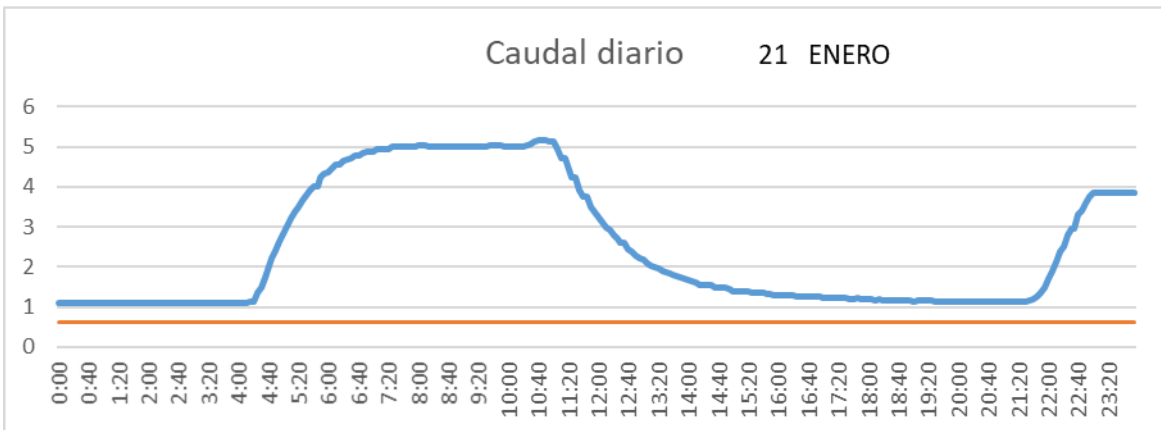
SAN LORENZO PARRILLA



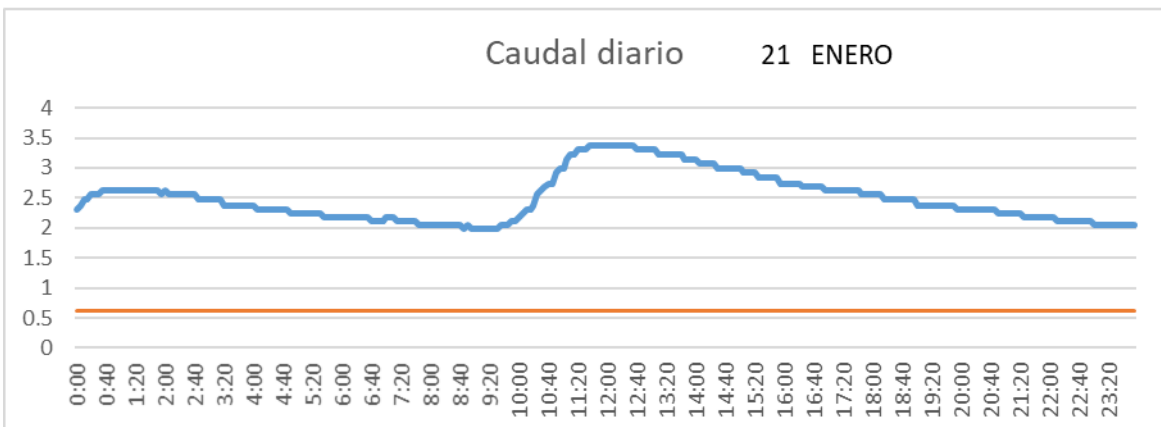
SALIDA TOBA



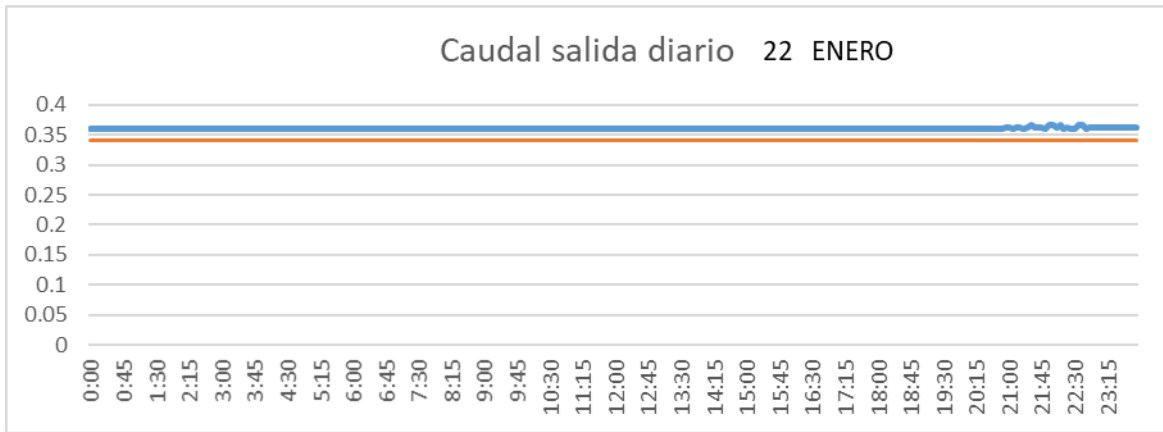
CUENCA



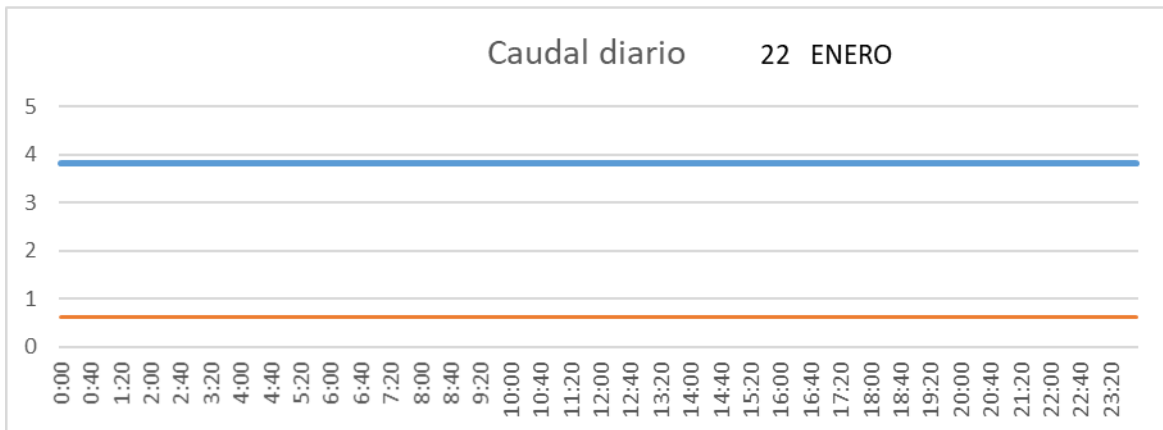
SAN LORENZO PARRILLA



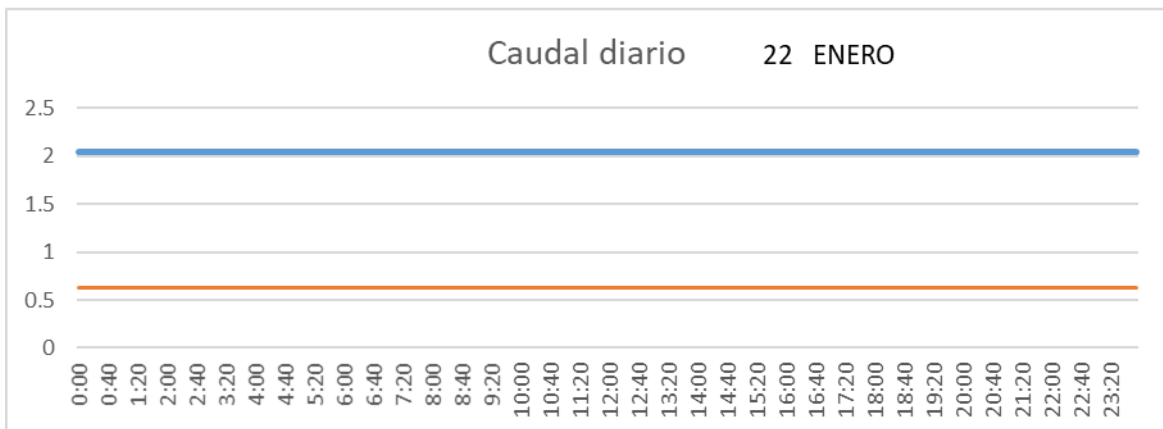
SALIDA TOBA



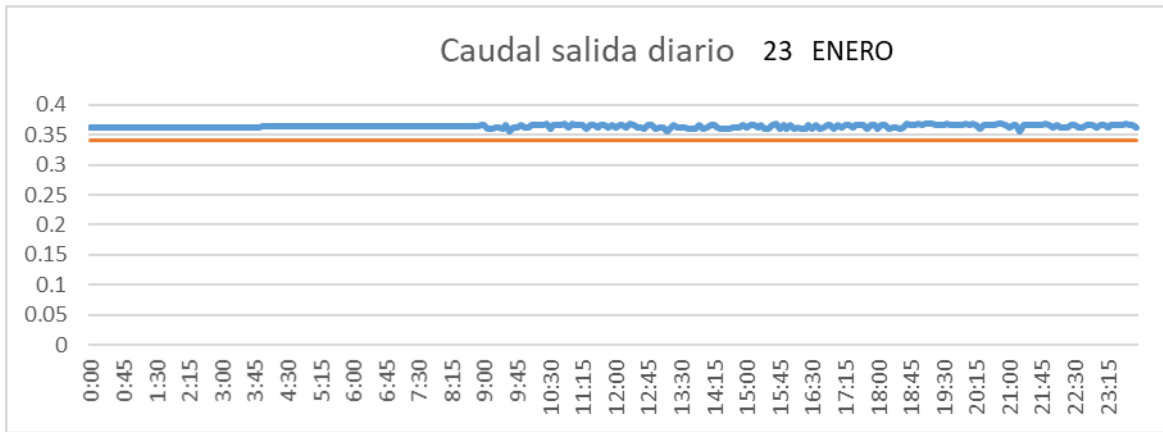
CUENCA



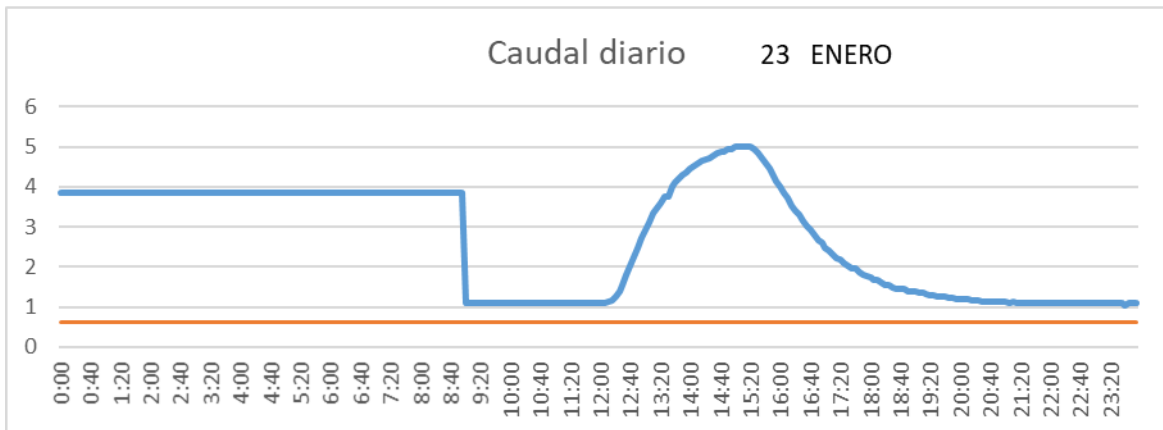
SAN LORENZO PARRILLA



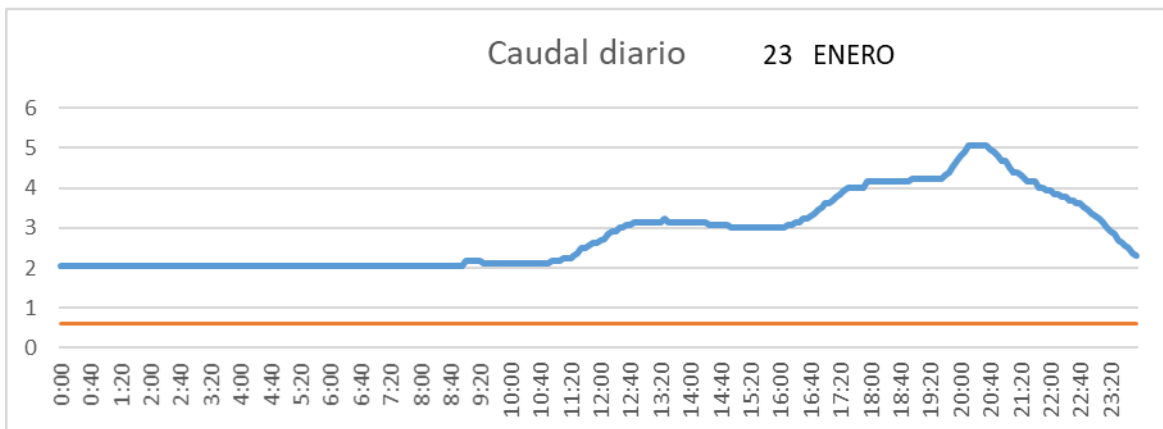
SALIDA TOBA



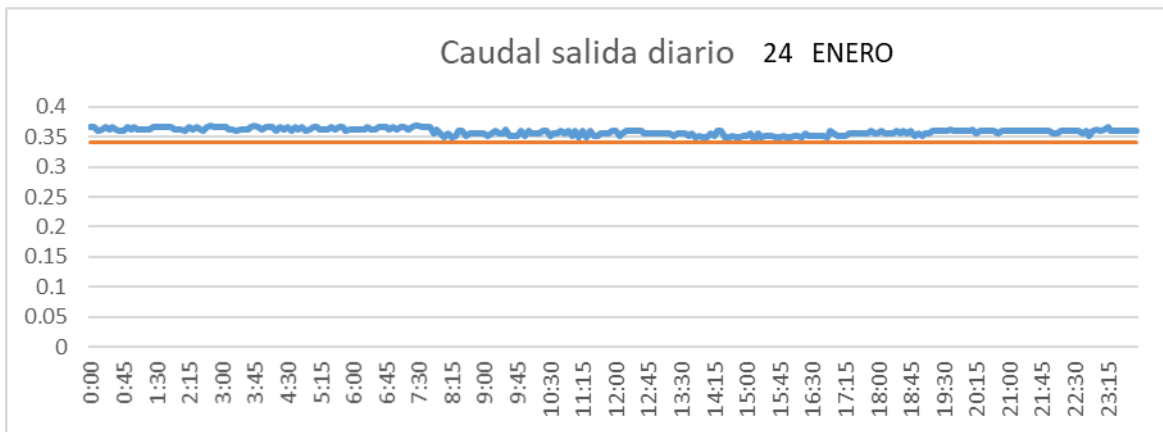
CUENCA



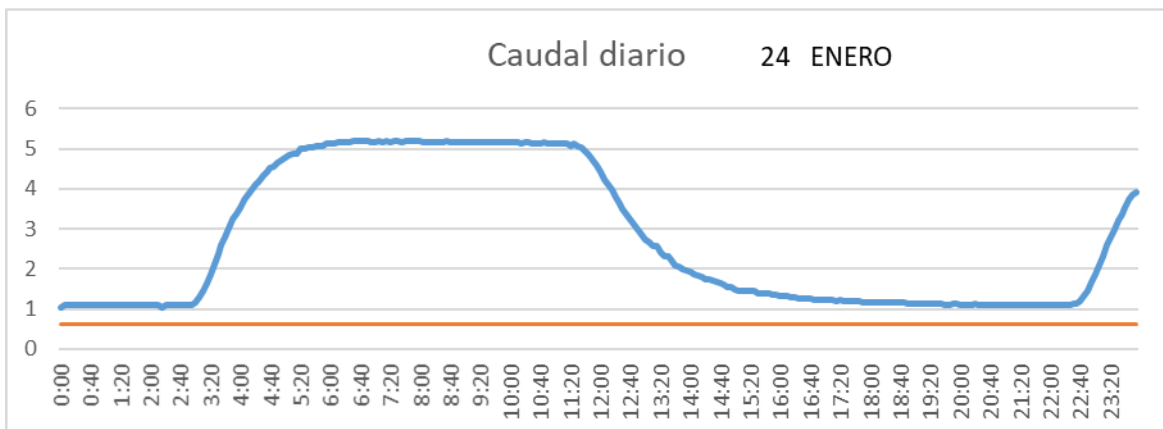
SAN LORENZO PARRILLA



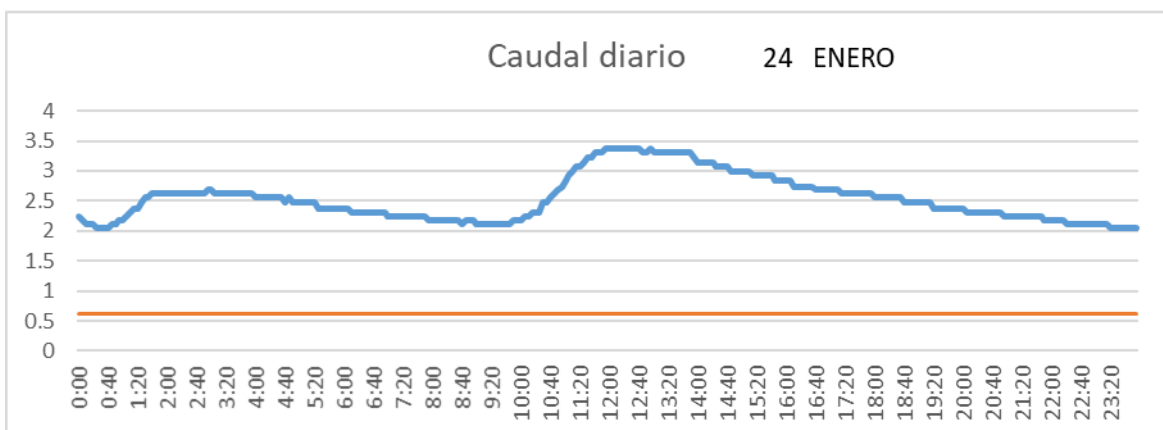
SALIDA TOBA



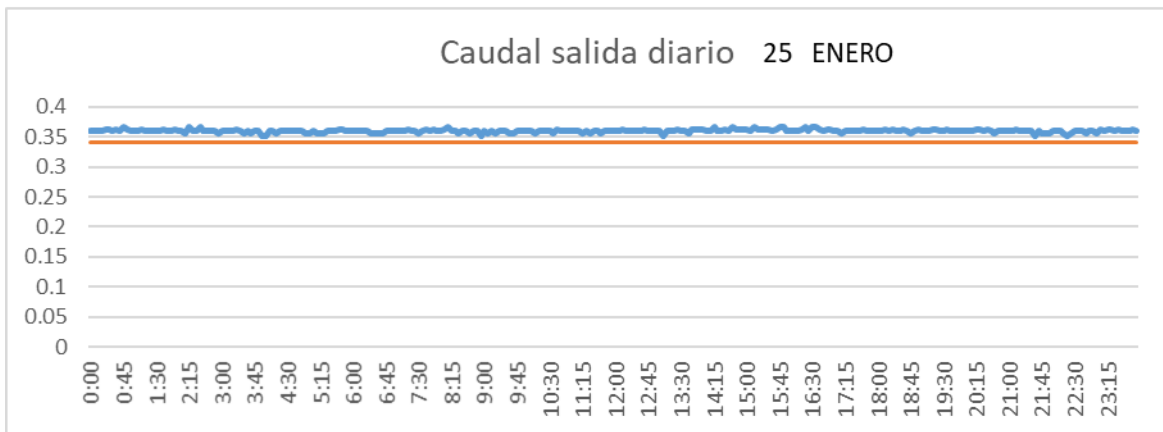
CUENCA



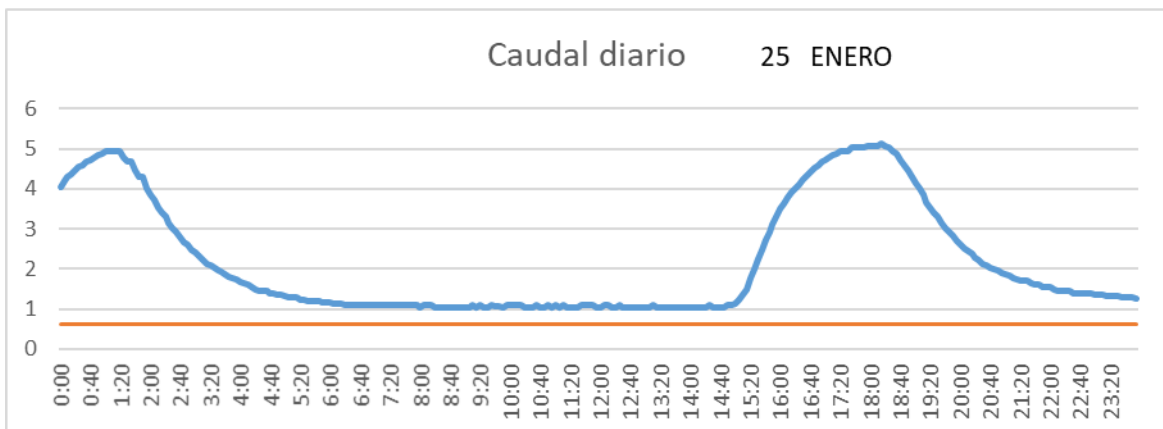
SAN LORENZO PARRILLA



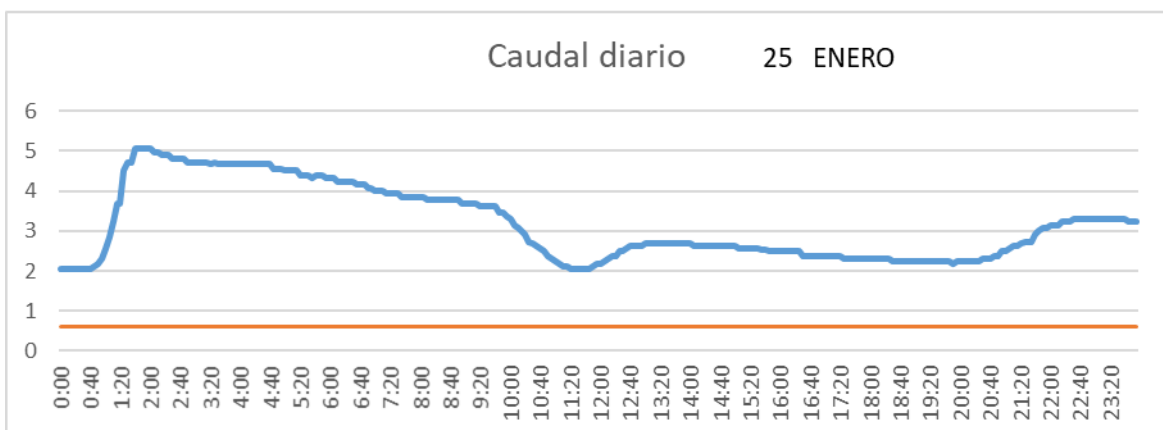
SALIDA TOBA



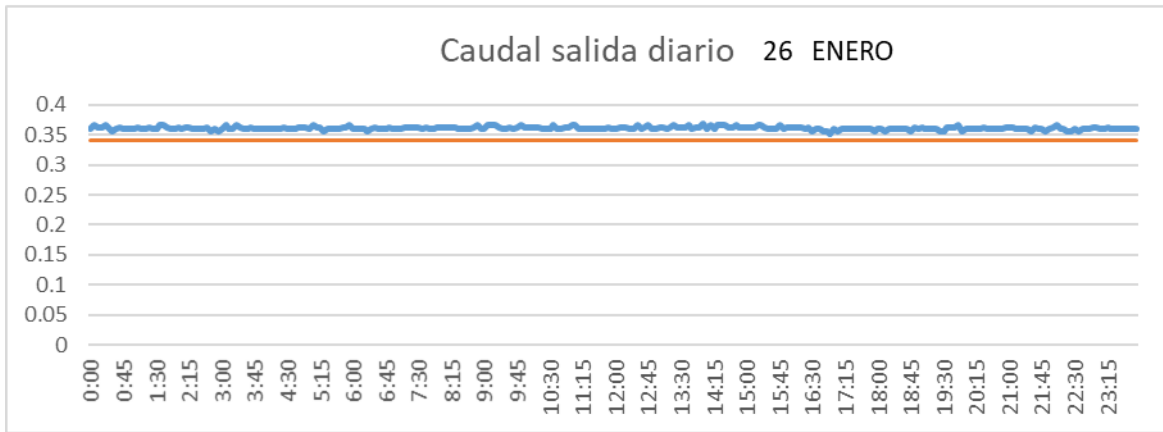
CUENCA



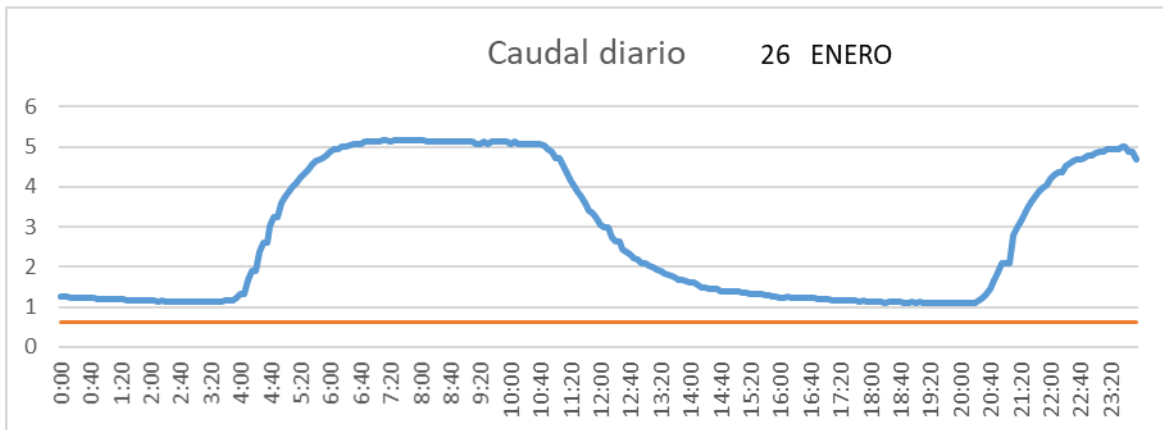
SAN LORENZO PARRILLA



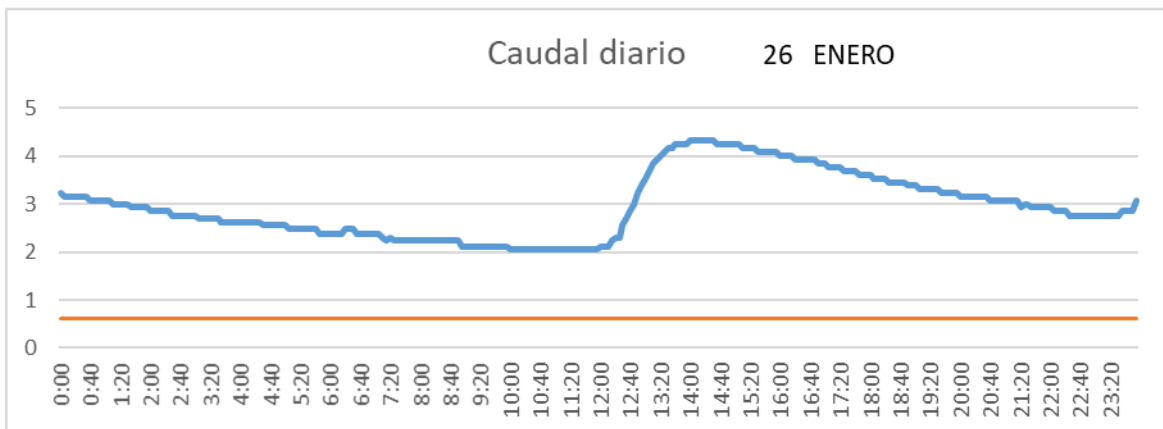
SALIDA TOBA



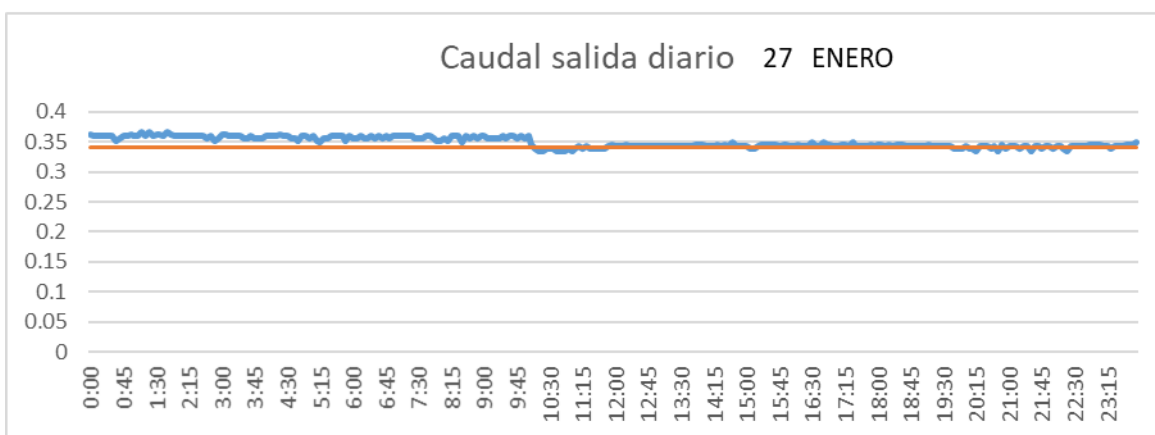
CUENCA



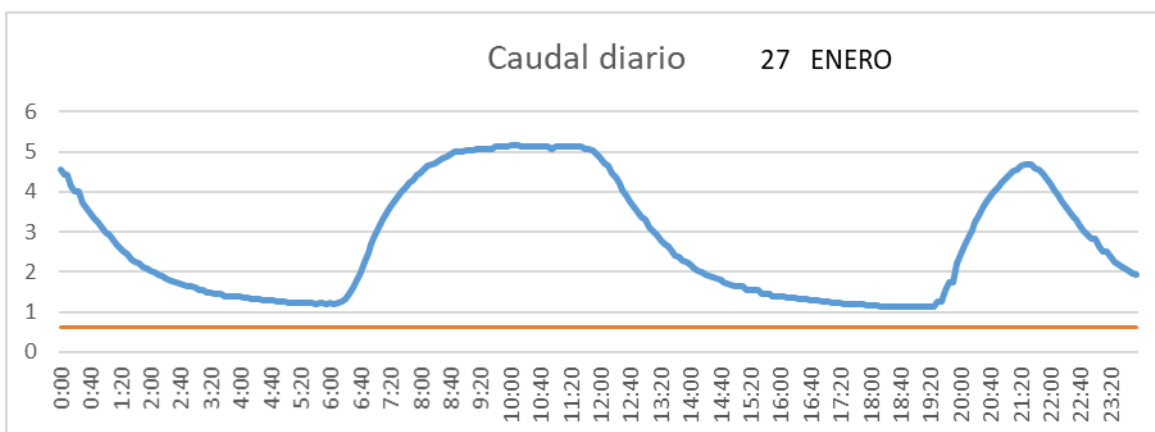
SAN LORENZO PARRILLA



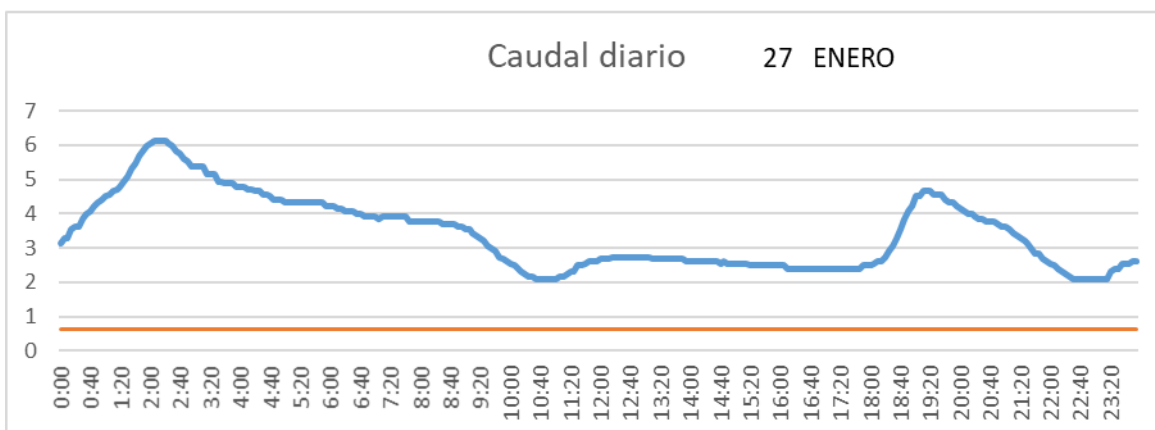
SALIDA TOBA



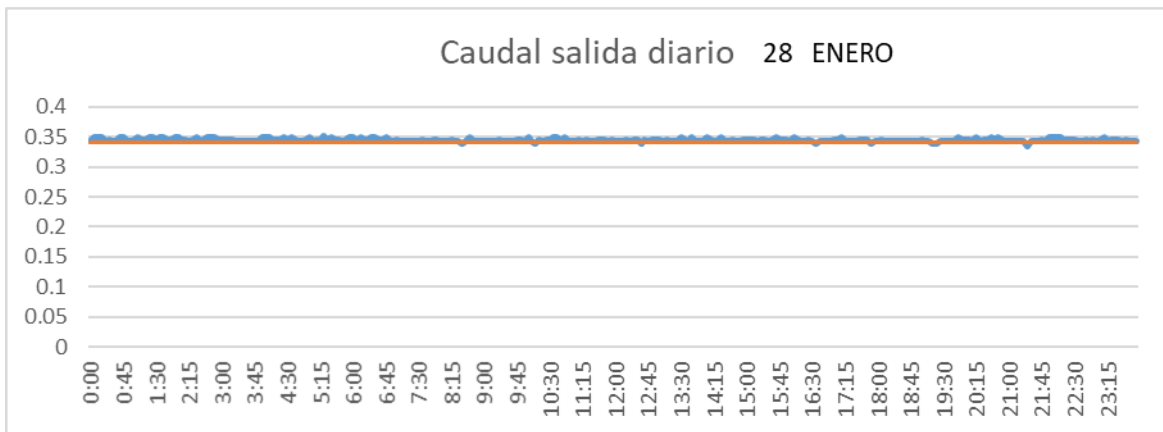
CUENCA



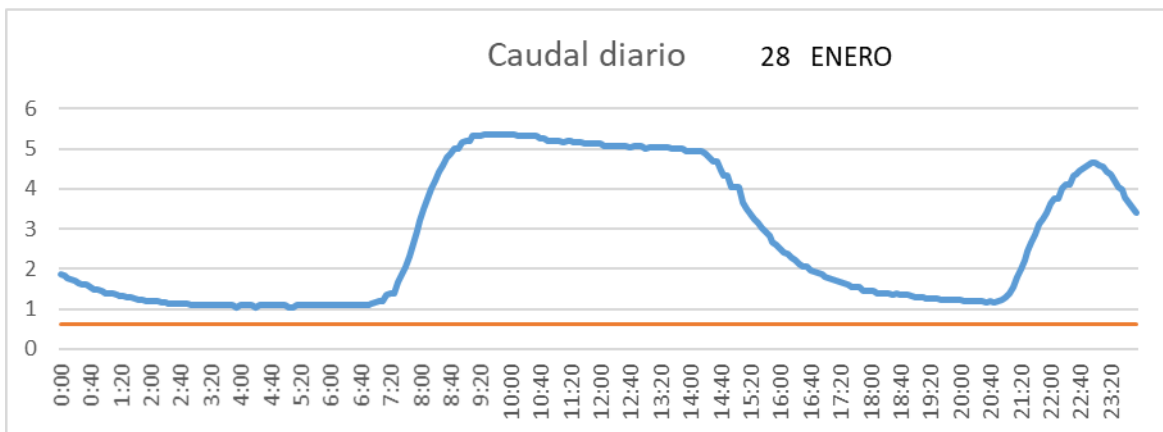
SAN LORENZO PARRILLA



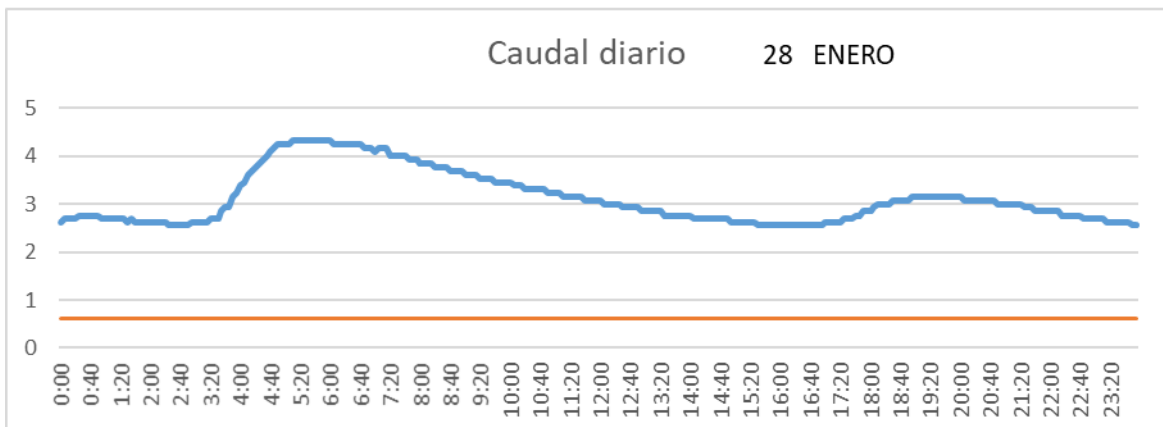
SALIDA TOBA



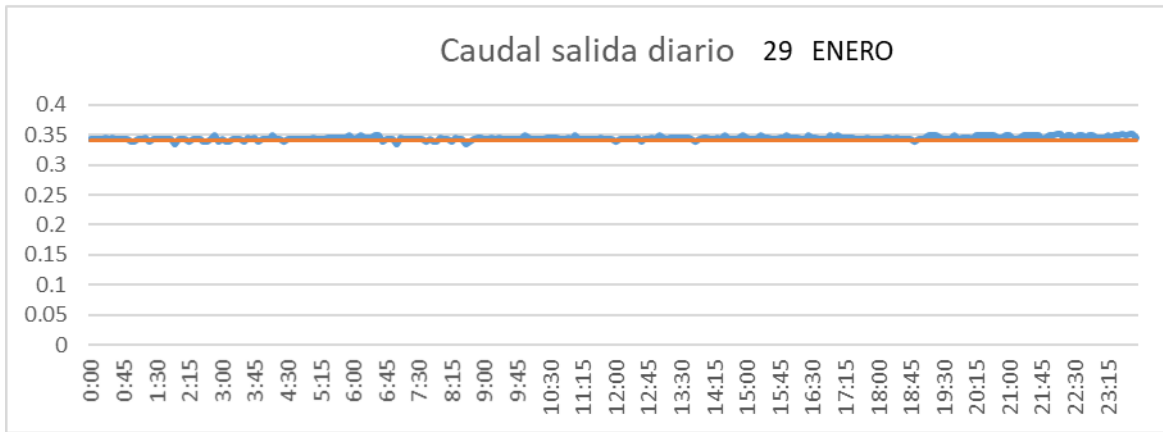
CUENCA



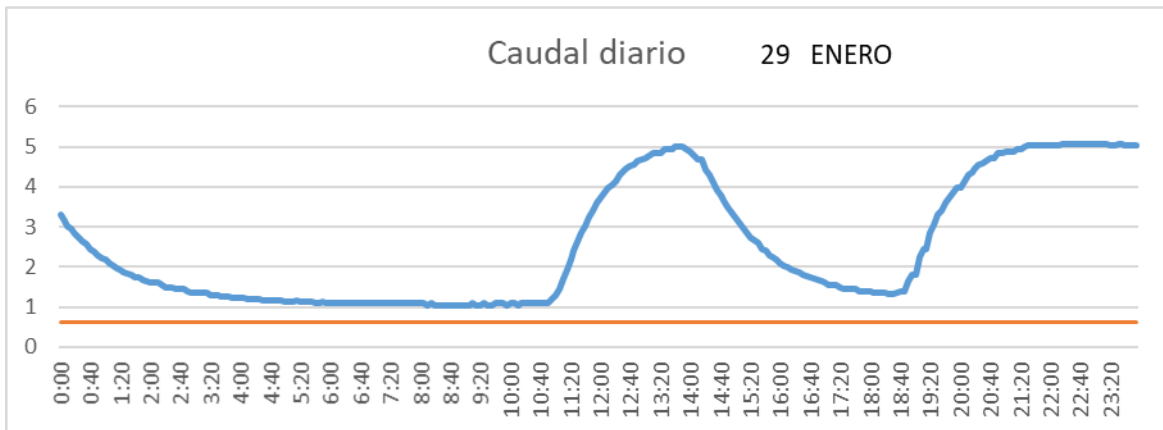
SAN LORENZO PARRILLA



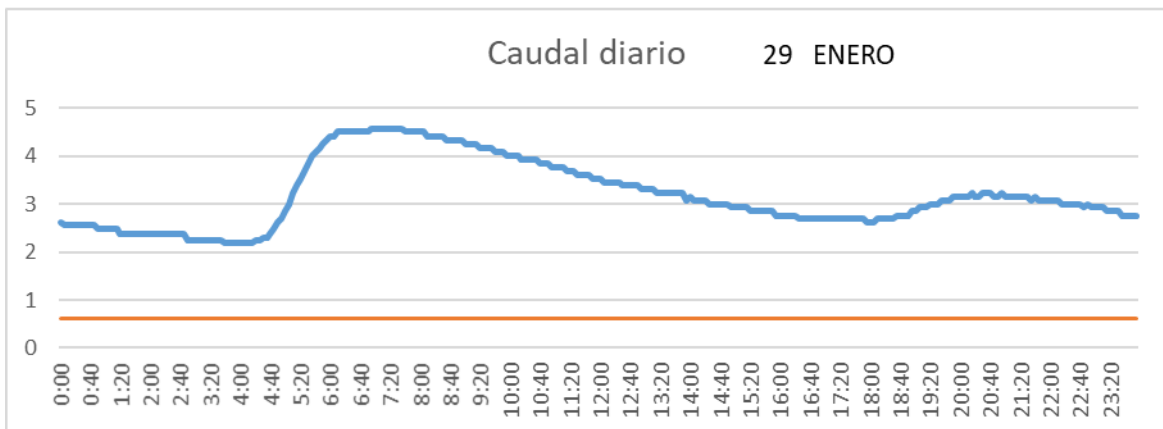
SALIDA TOBA



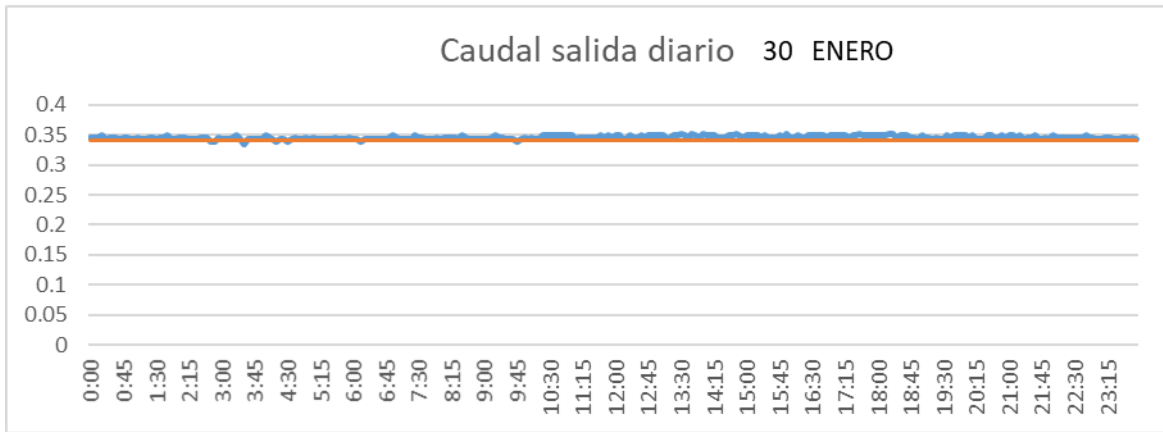
CUENCA



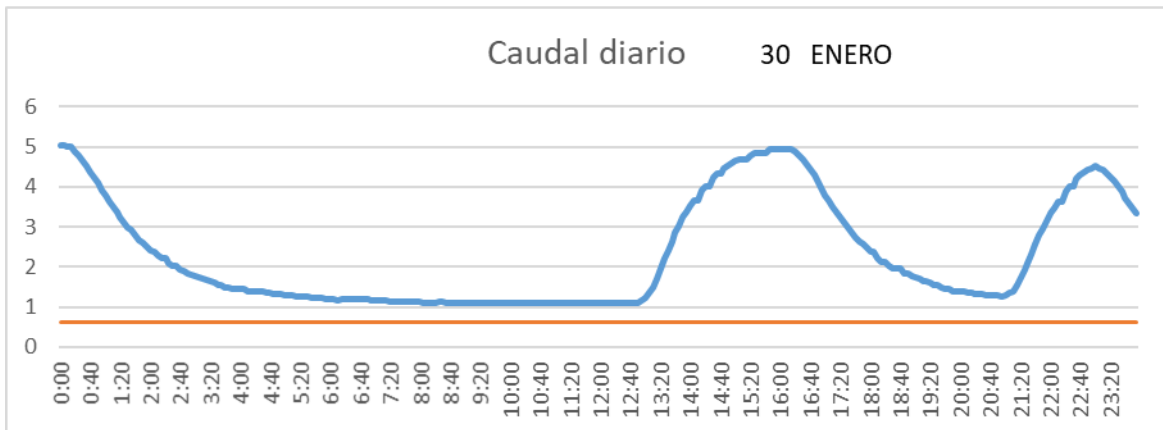
SAN LORENZO PARRILLA



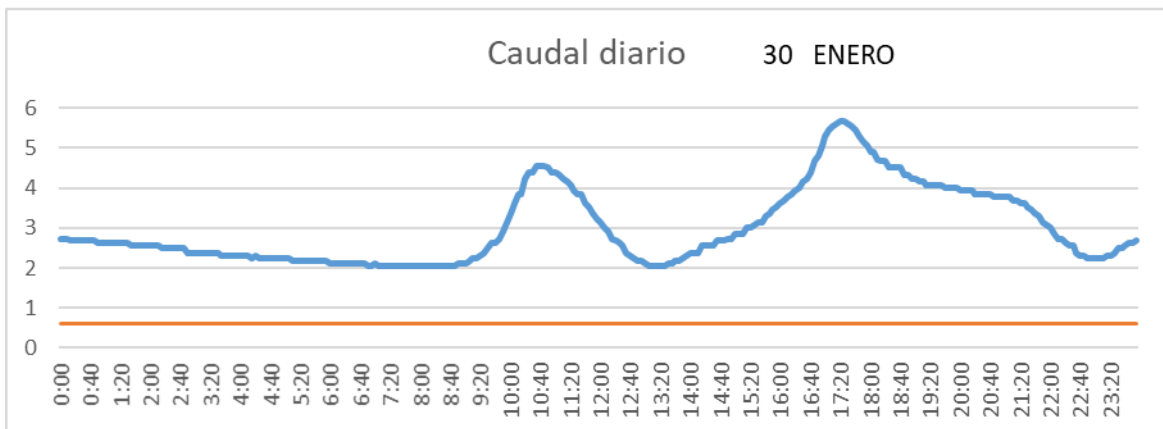
SALIDA TOBA



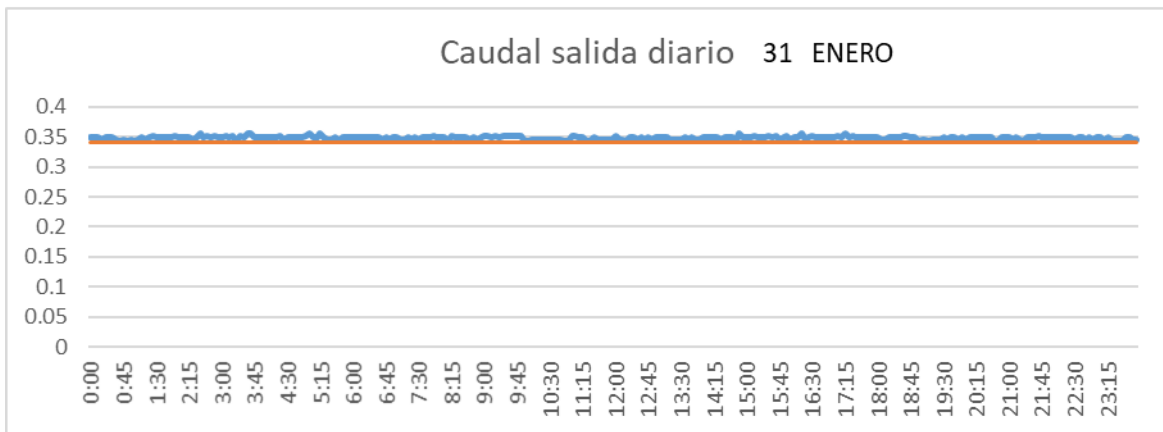
CUENCA



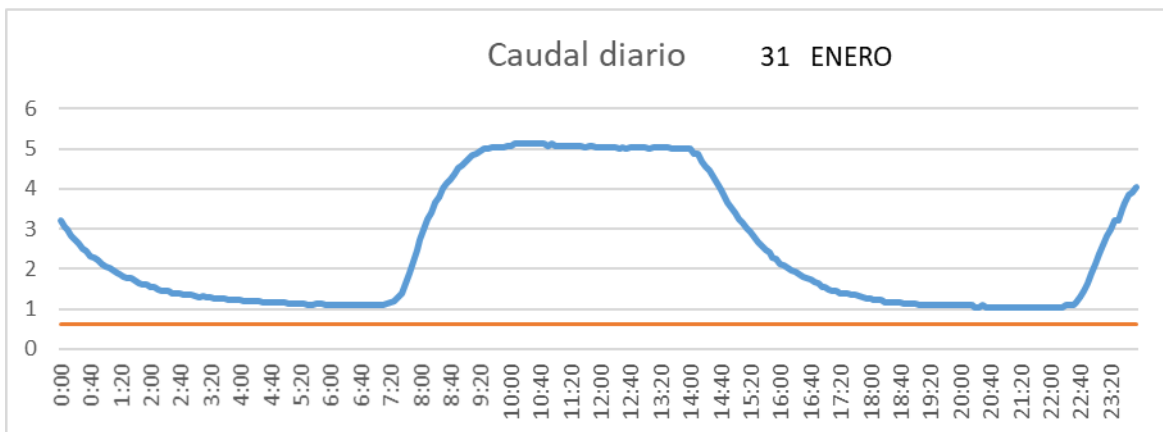
SAN LORENZO PARRILLA



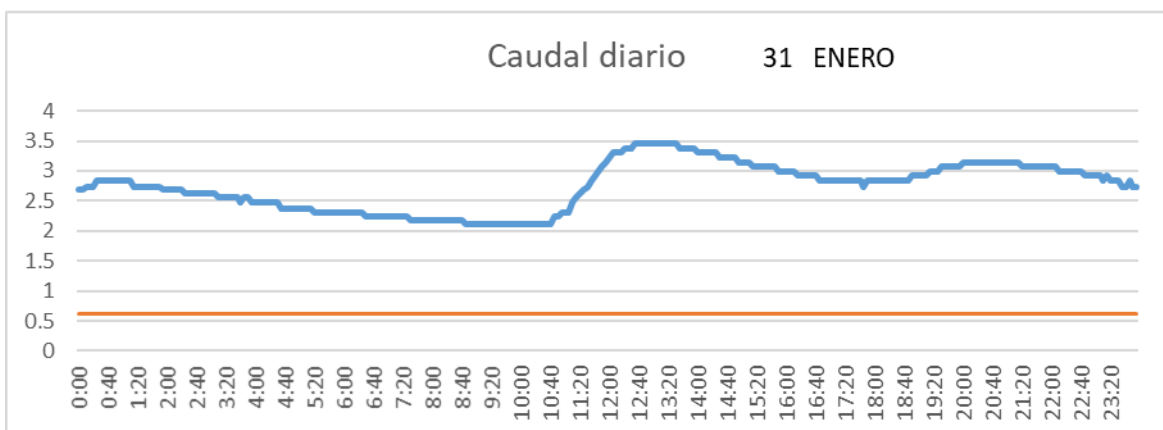
SALIDA TOBA



CUENCA

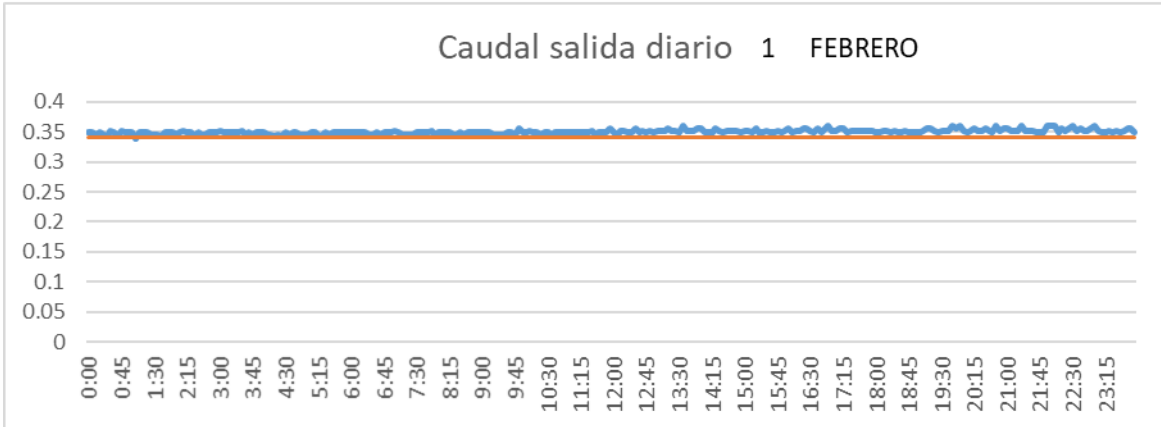


SAN LORENZO PARRILLA

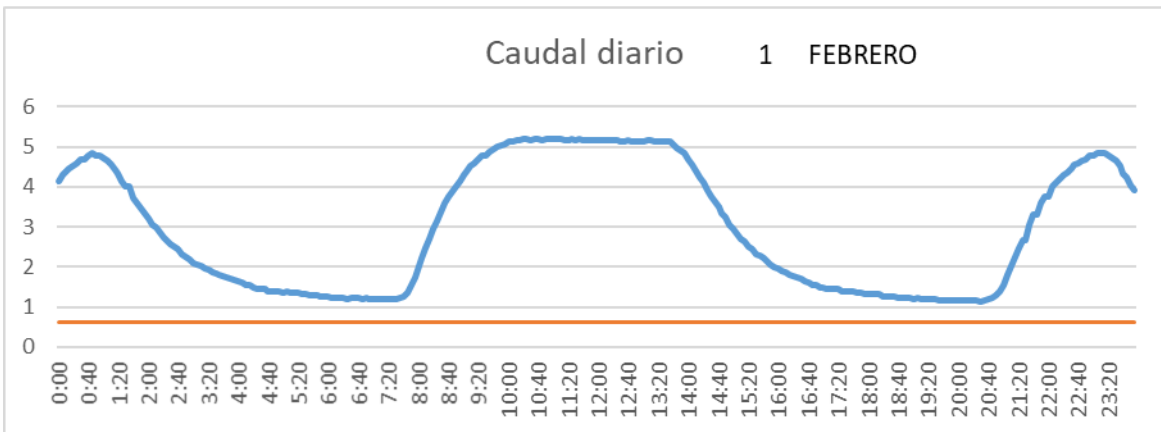


2.3.2 Febrero

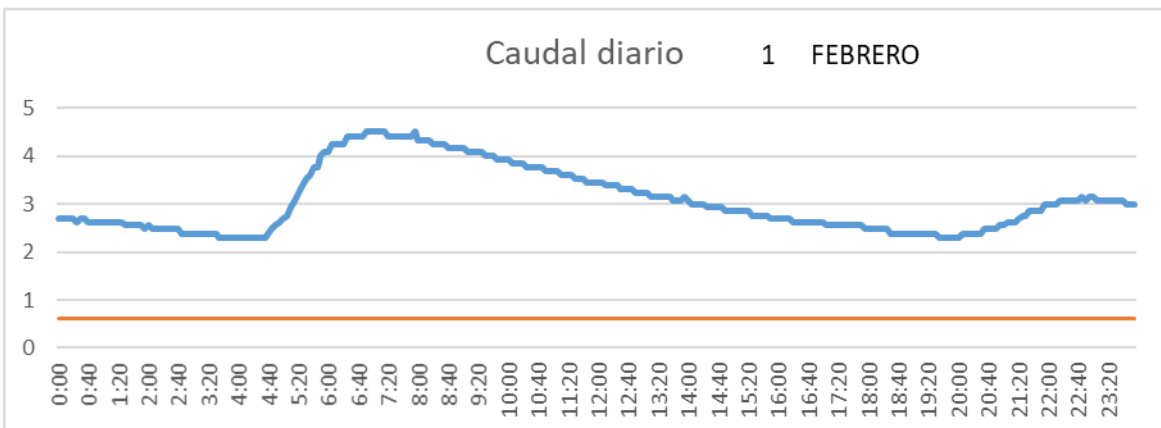
SALIDA TOBA



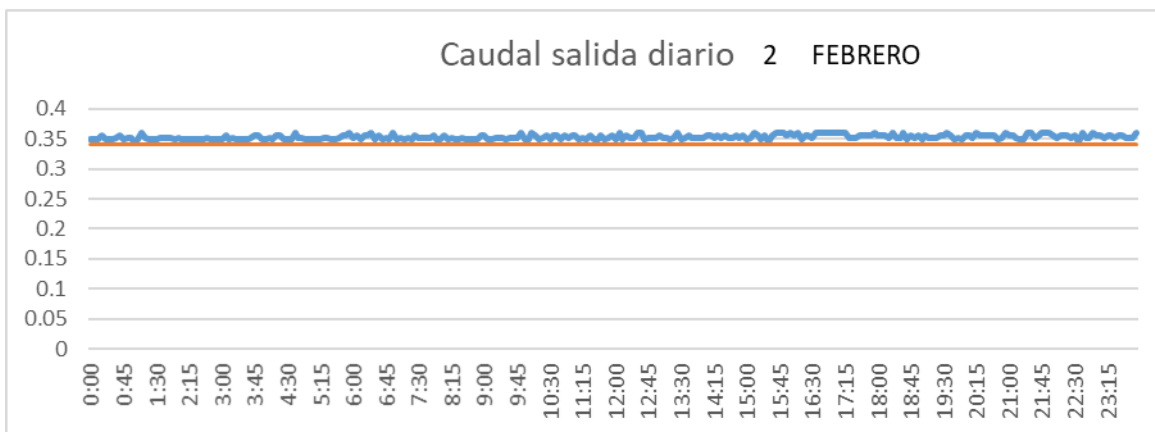
CUENCA



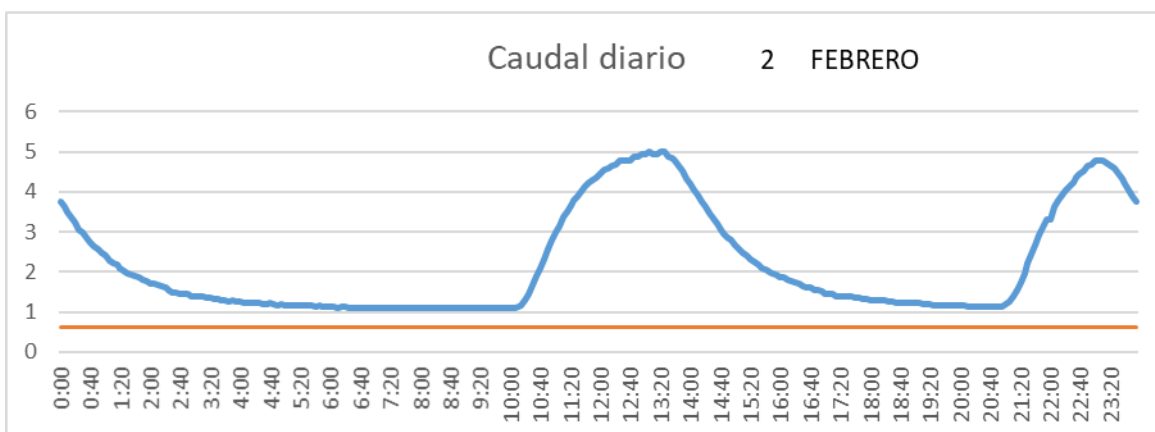
SAN LORENZO PARRILLA



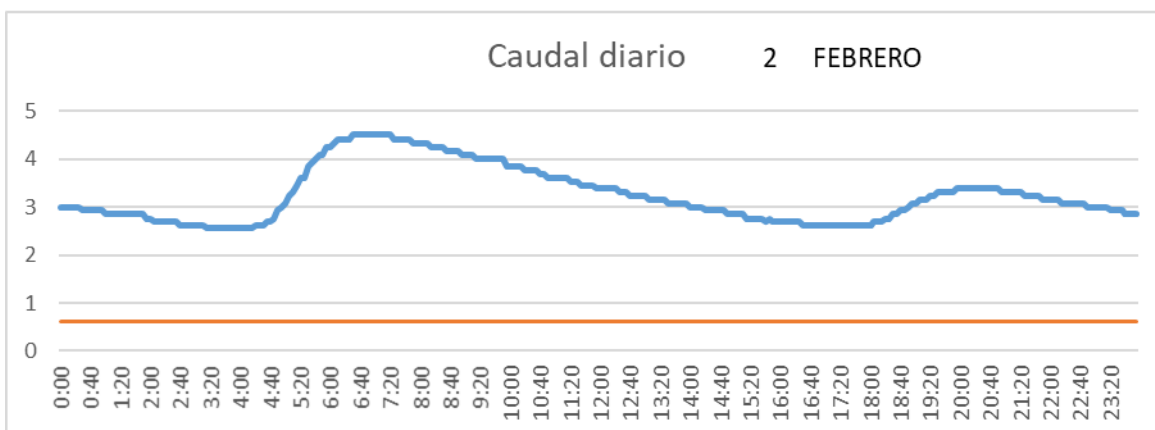
SALIDA TOBA



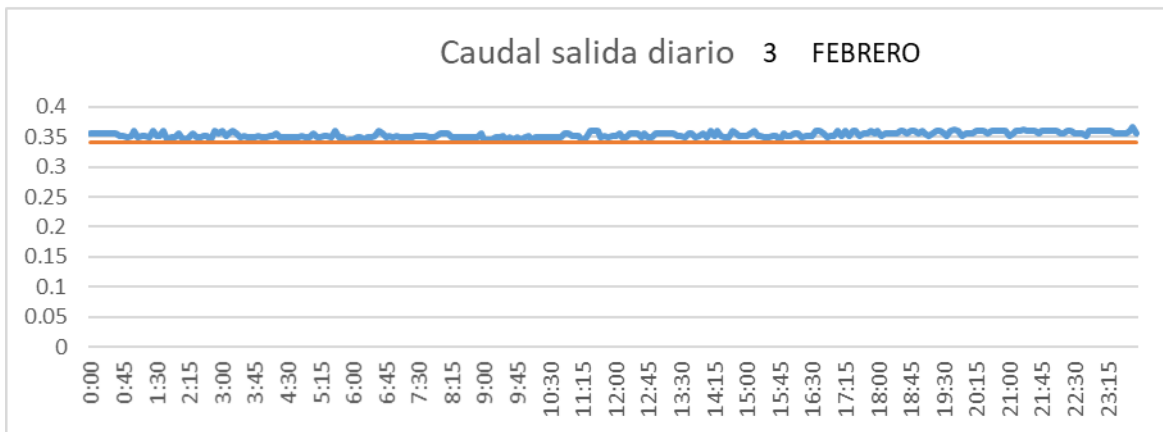
CUENCA



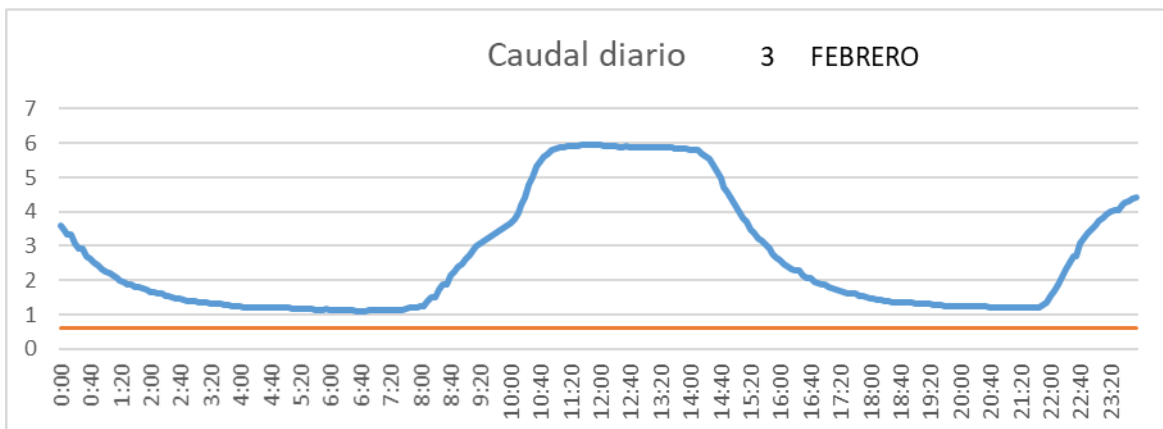
SAN LORENZO PARRILLA



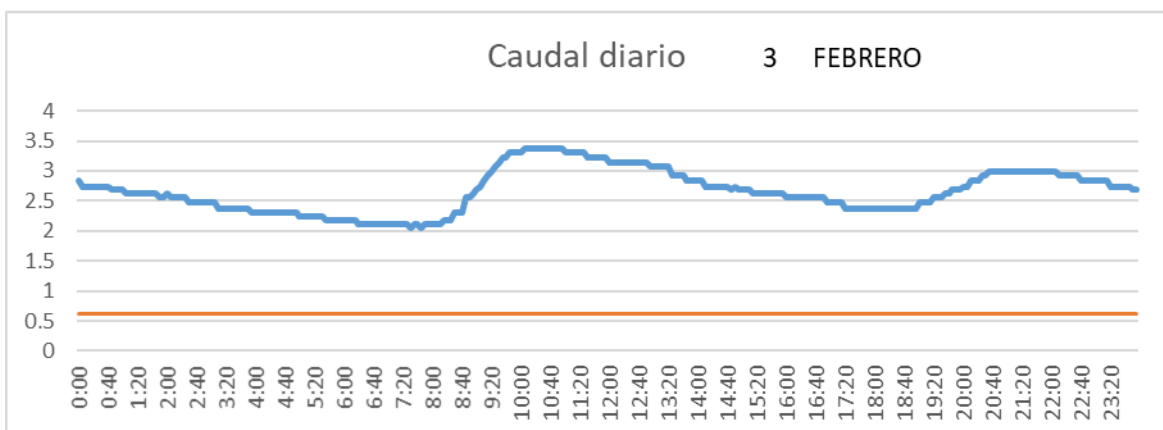
SALIDA TOBA



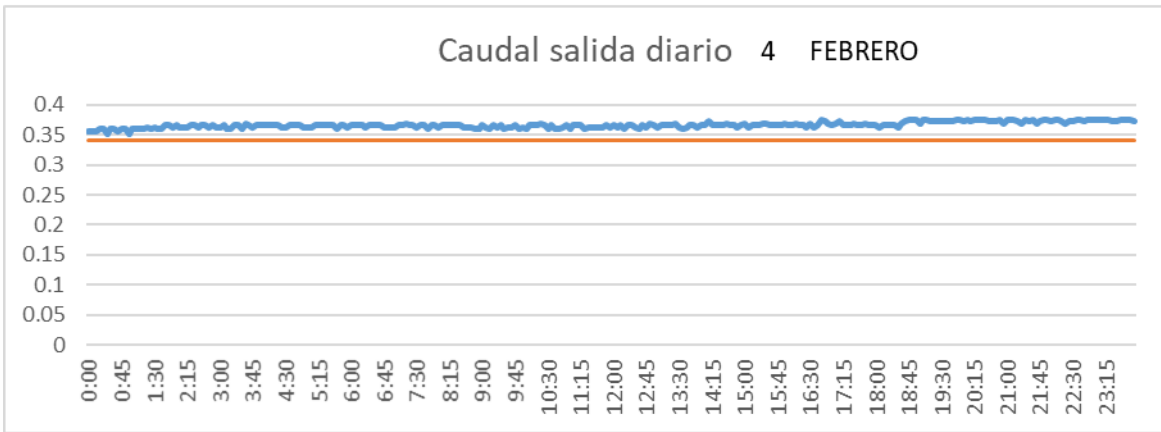
CUENCA



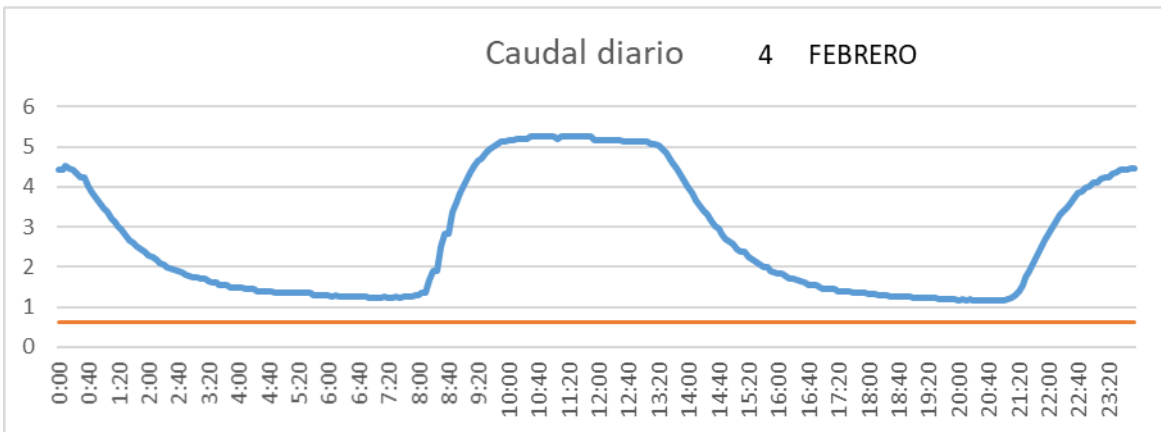
SAN LORENZO PARRILLA



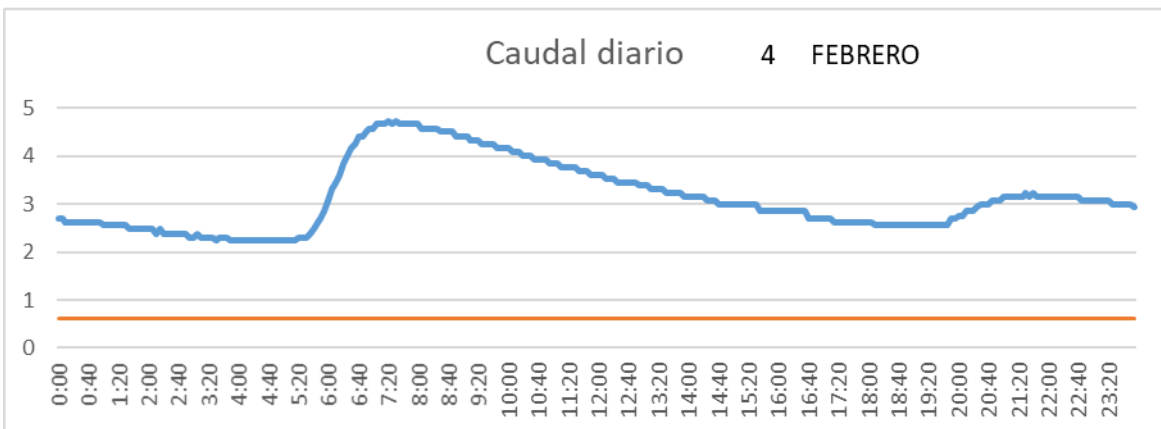
SALIDA TOBA



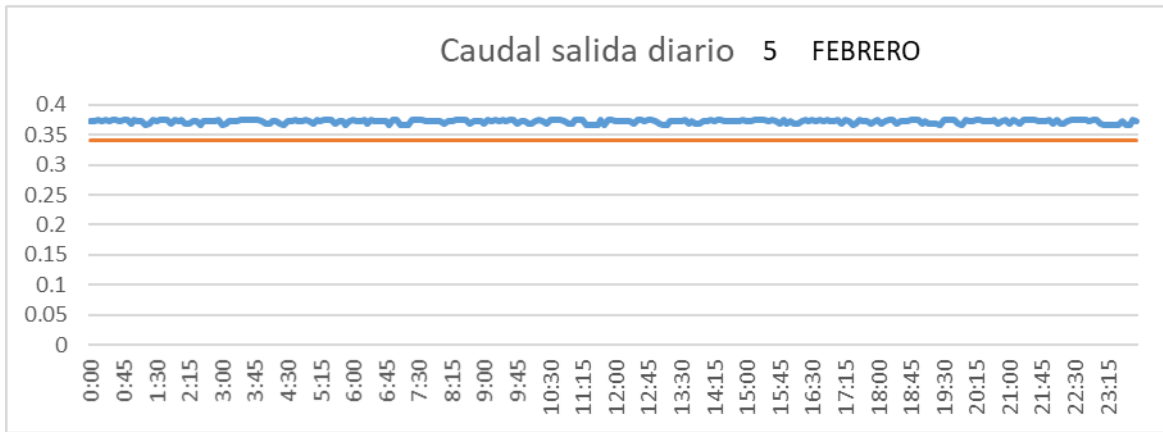
CUENCA



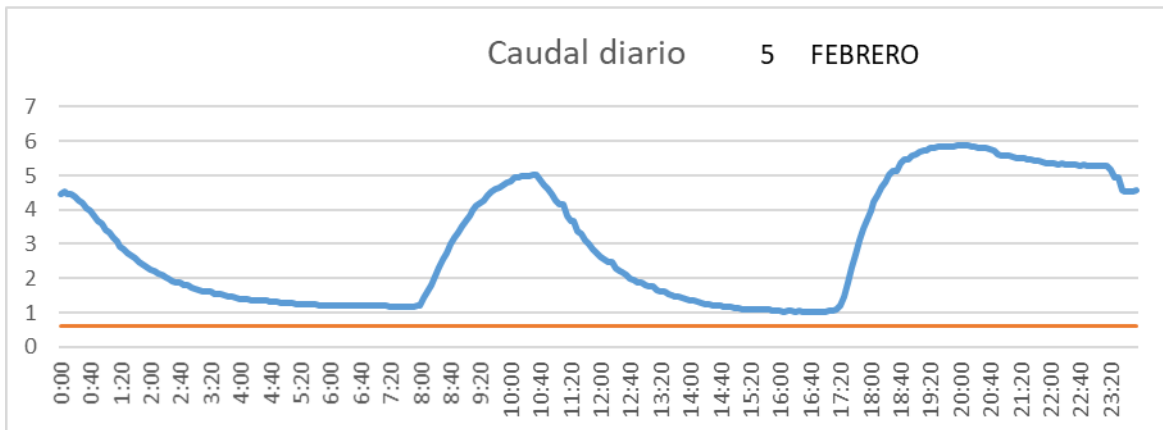
SAN LORENZO PARRILLA



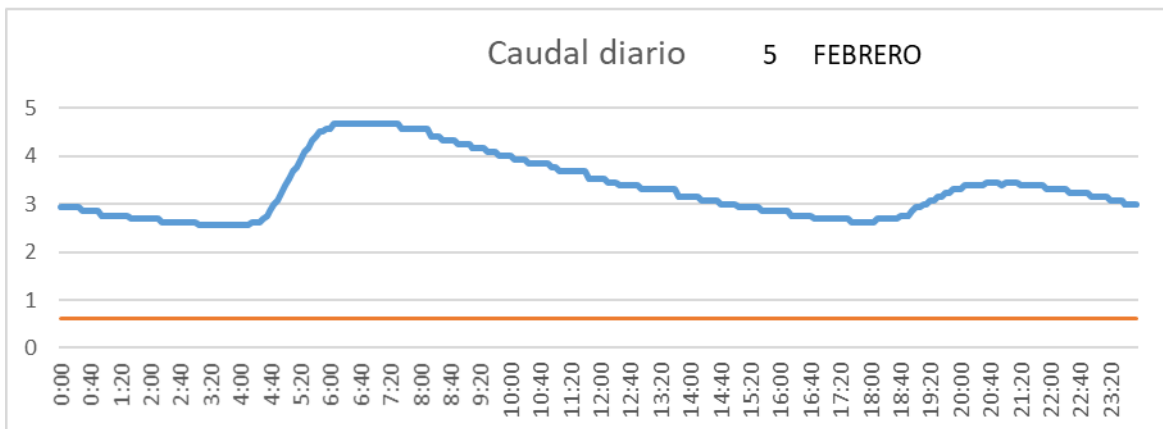
SALIDA TOBA



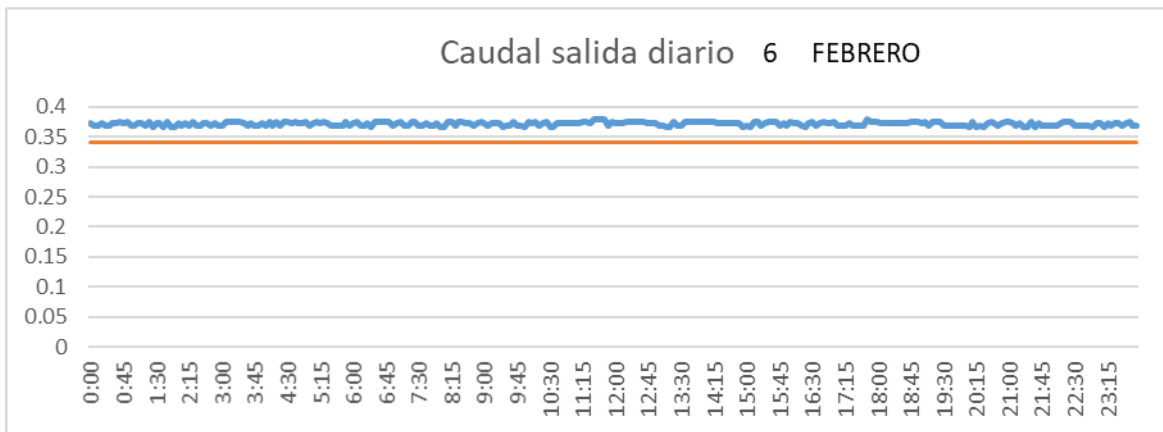
CUENCA



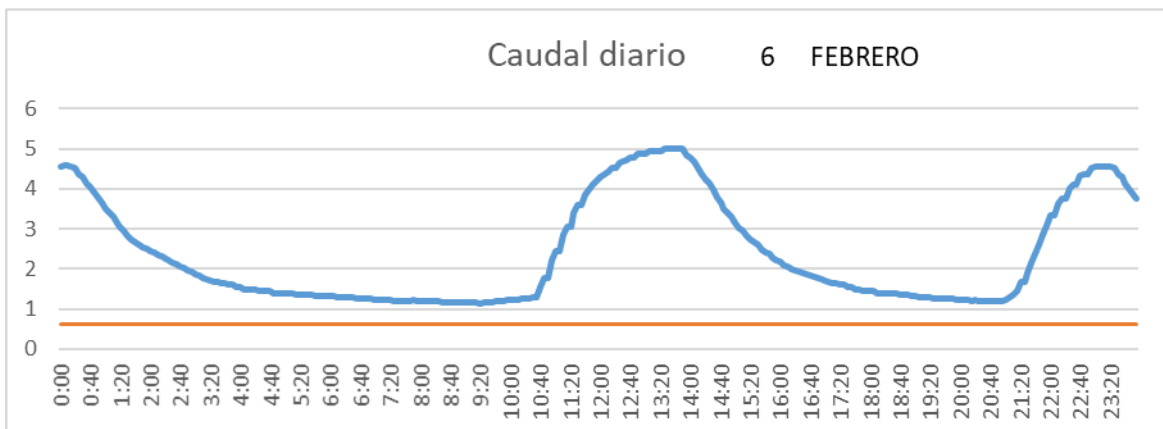
SAN LORENZO PARRILLA



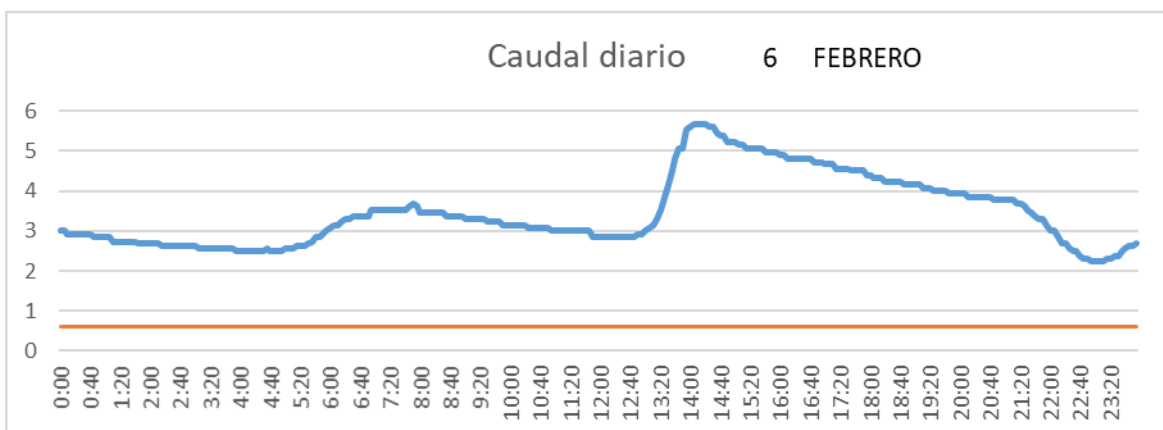
SALIDA TOBA



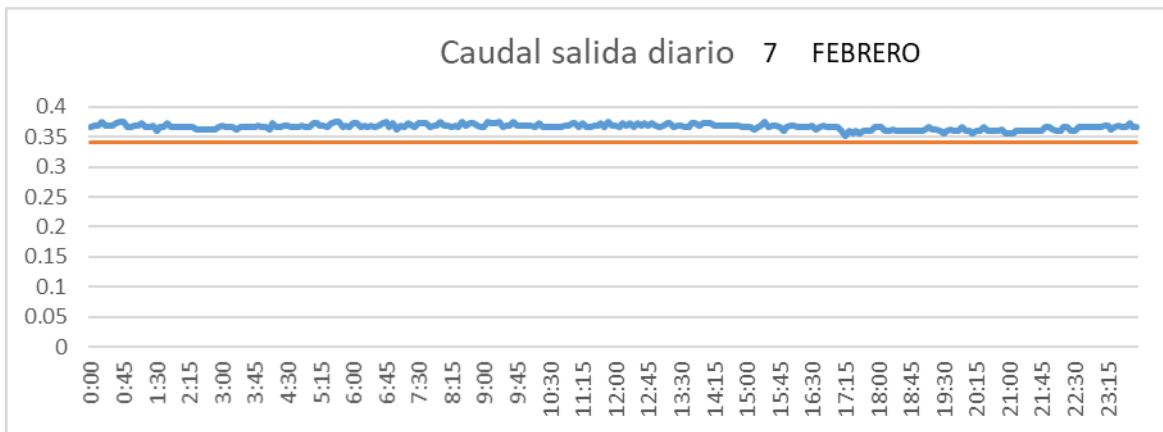
CUENCA



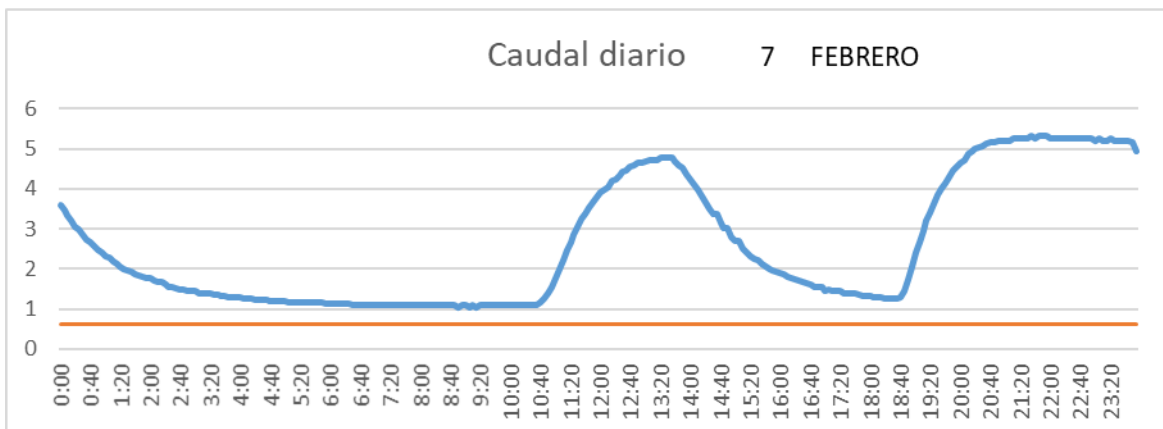
SAN LORENZO PARRILLA



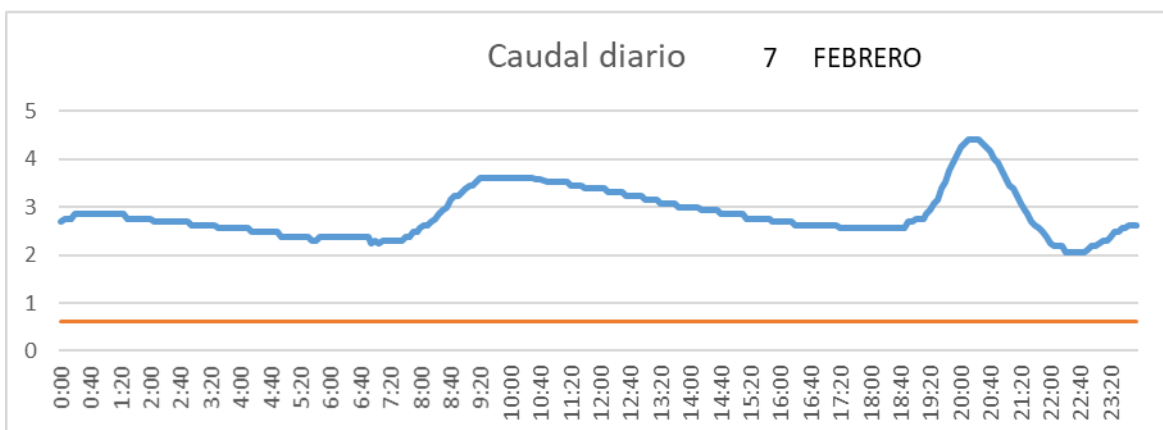
SALIDA TOBA



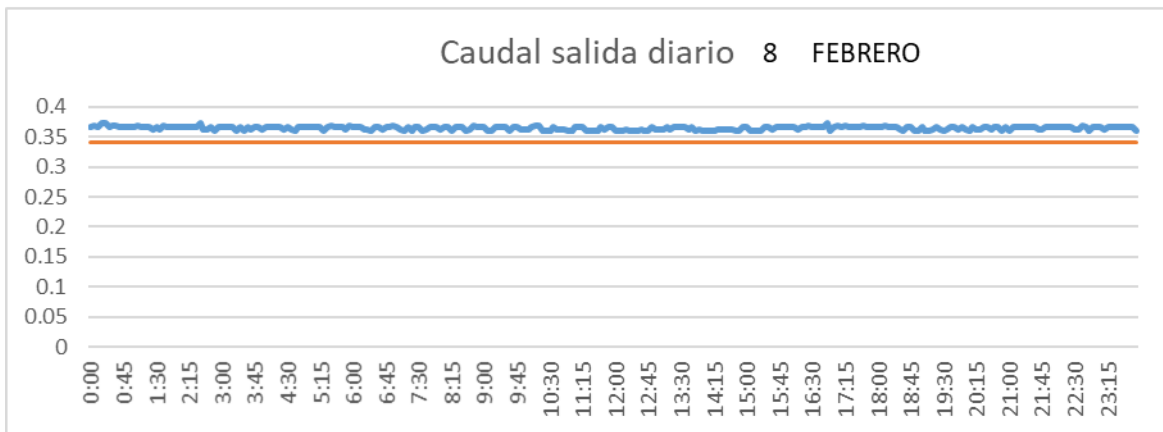
CUENCA



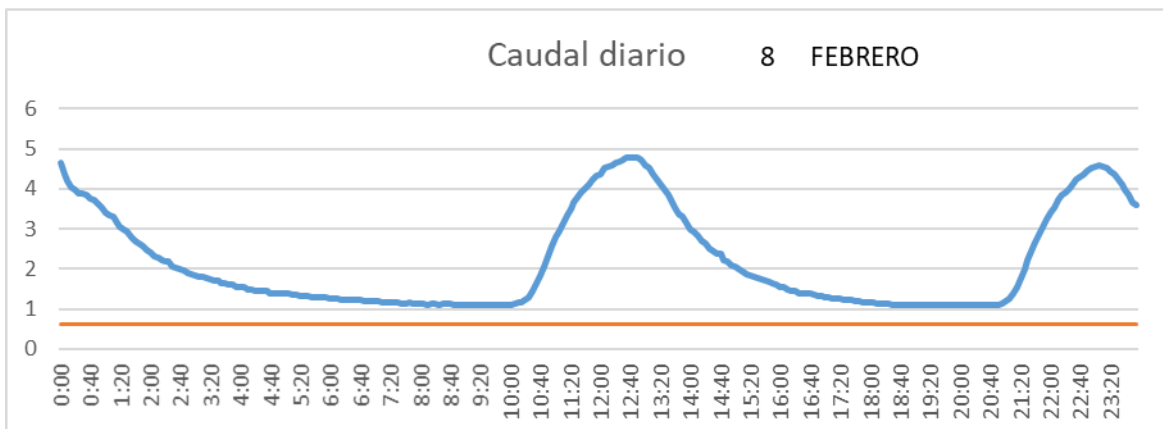
SAN LORENZO PARRILLA



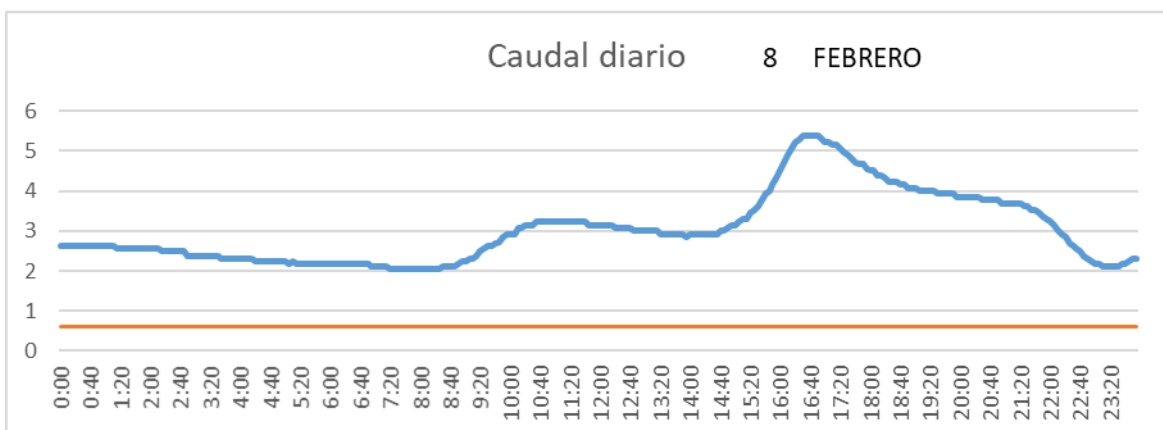
SALIDA TOBA



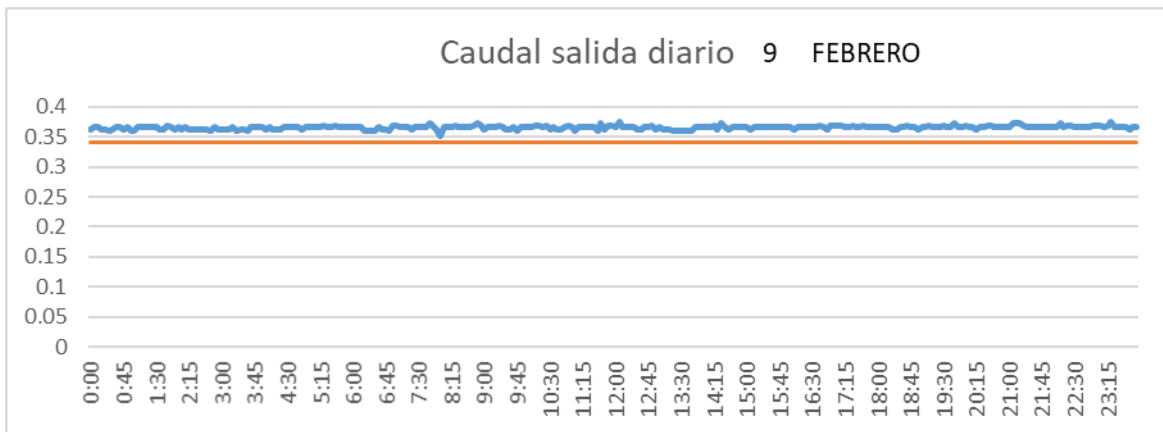
CUENCA



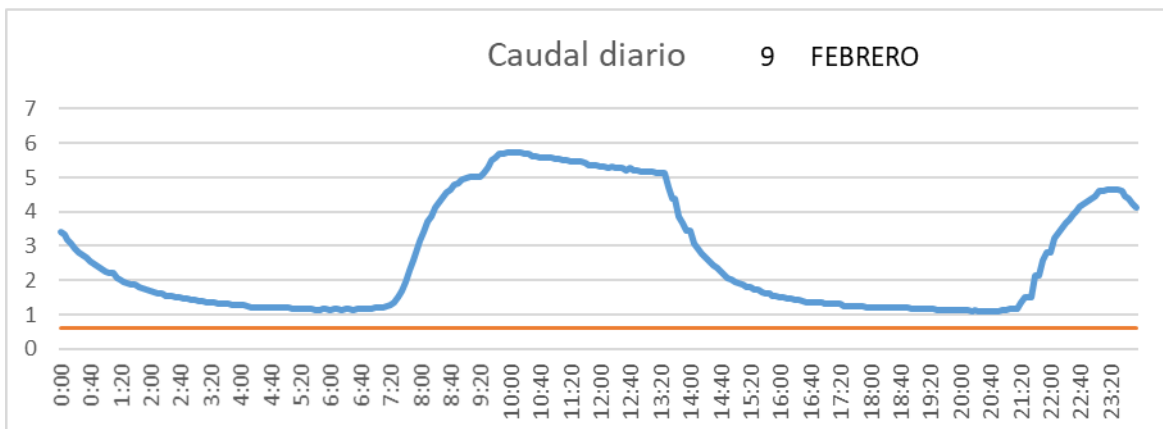
SAN LORENZO PARRILLA



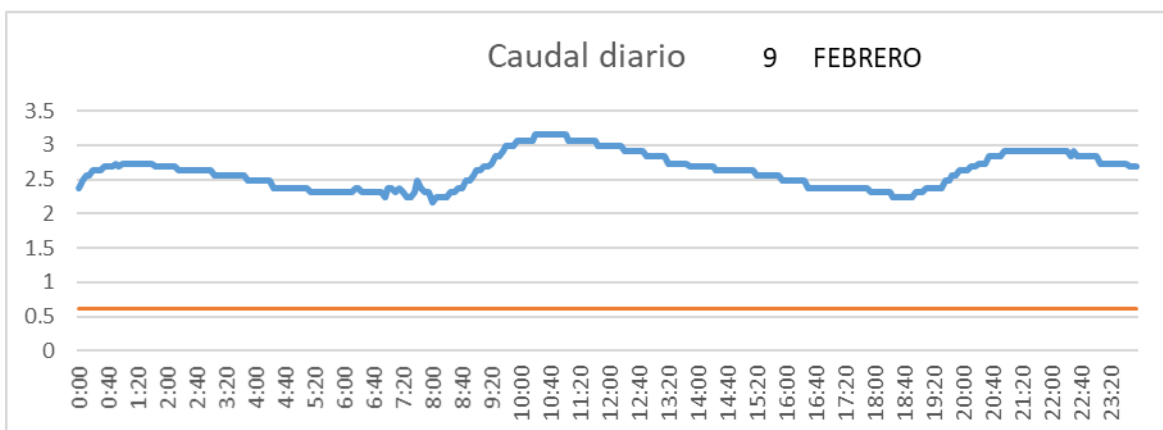
SALIDA TOBA



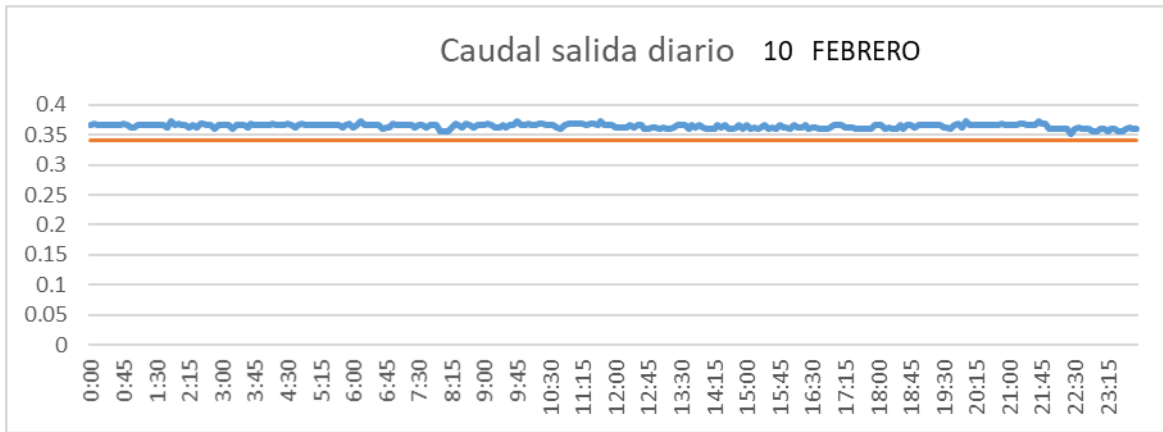
CUENCA



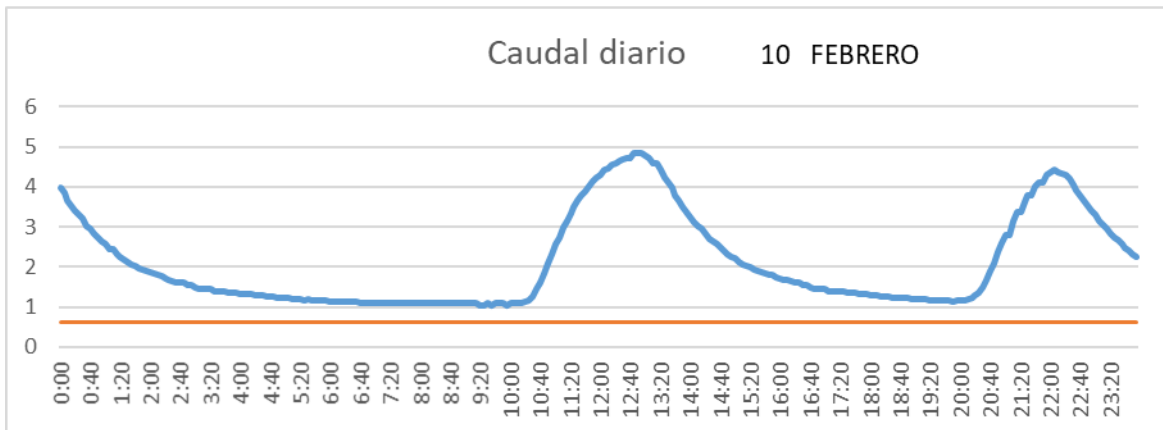
SAN LORENZO PARRILLA



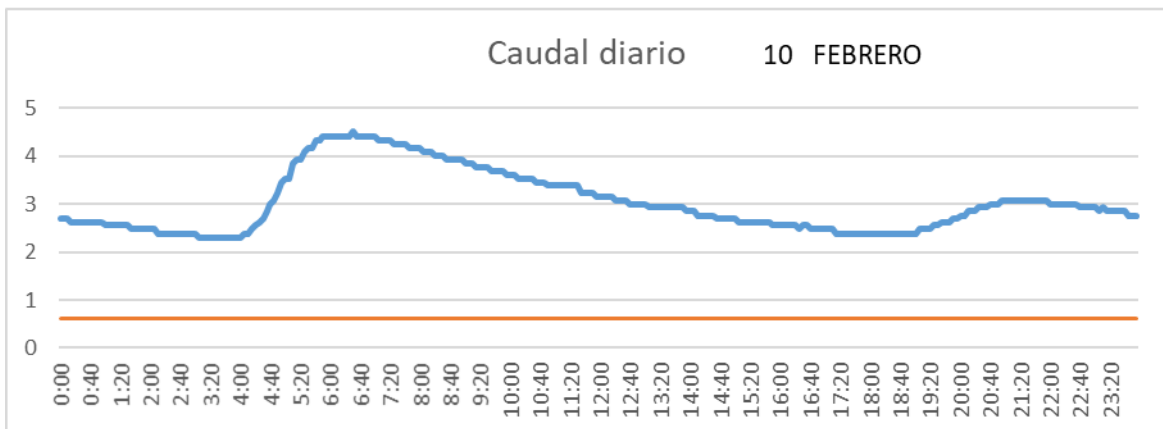
SALIDA TOBA



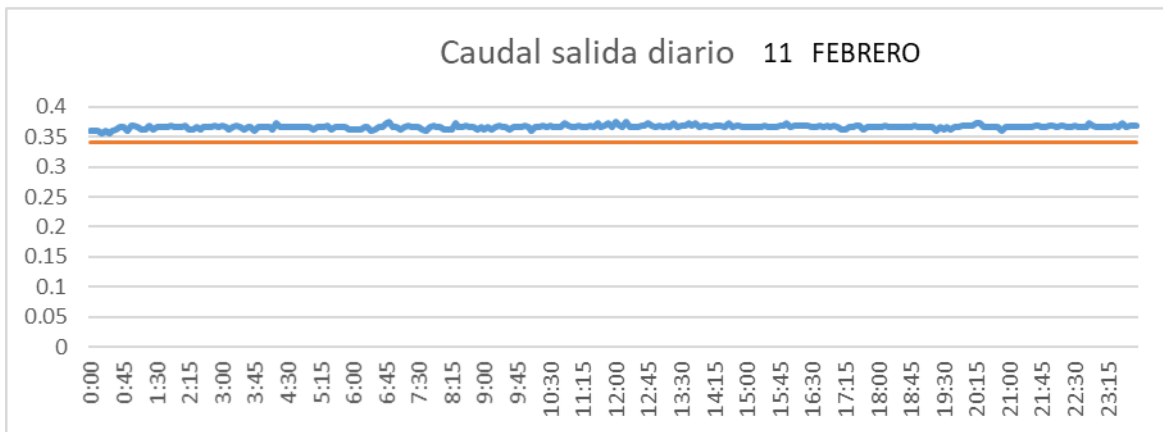
CUENCA



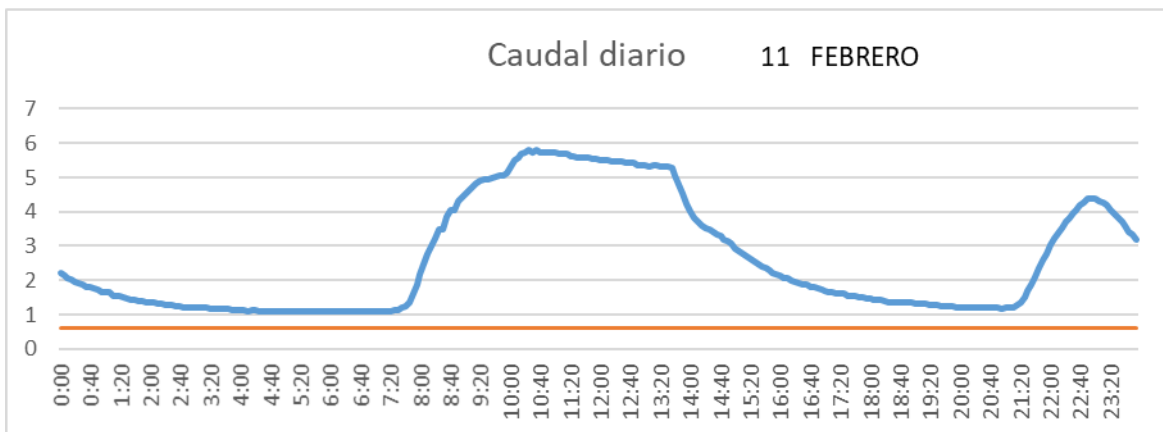
SAN LORENZO PARRILLA



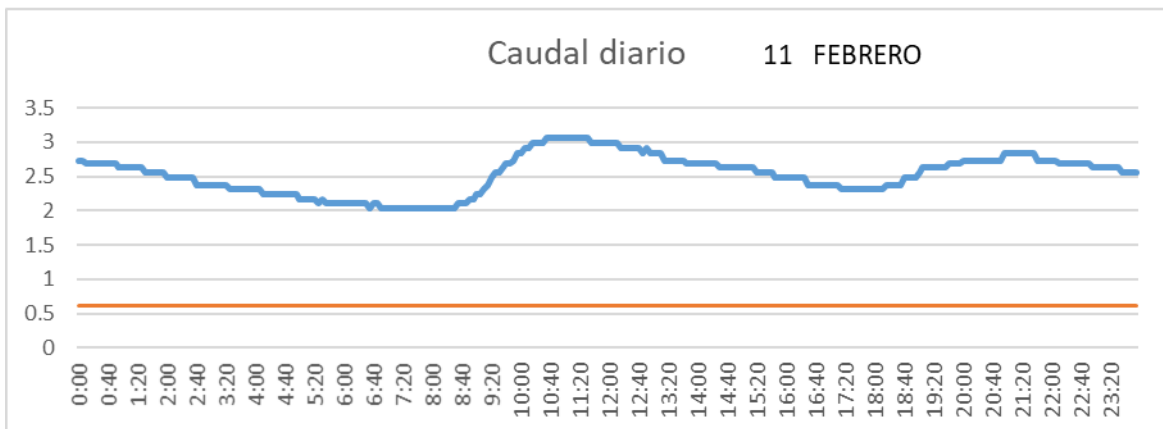
SALIDA TOBA



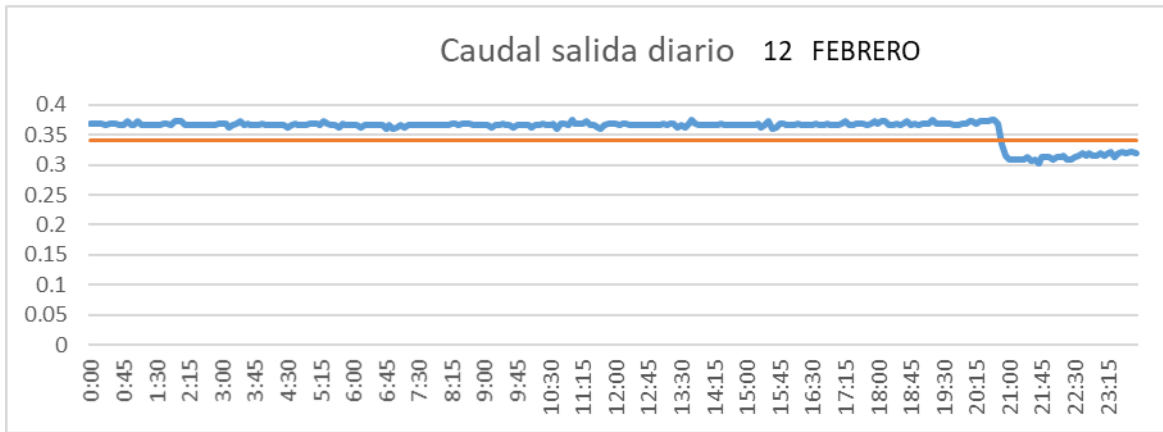
CUENCA



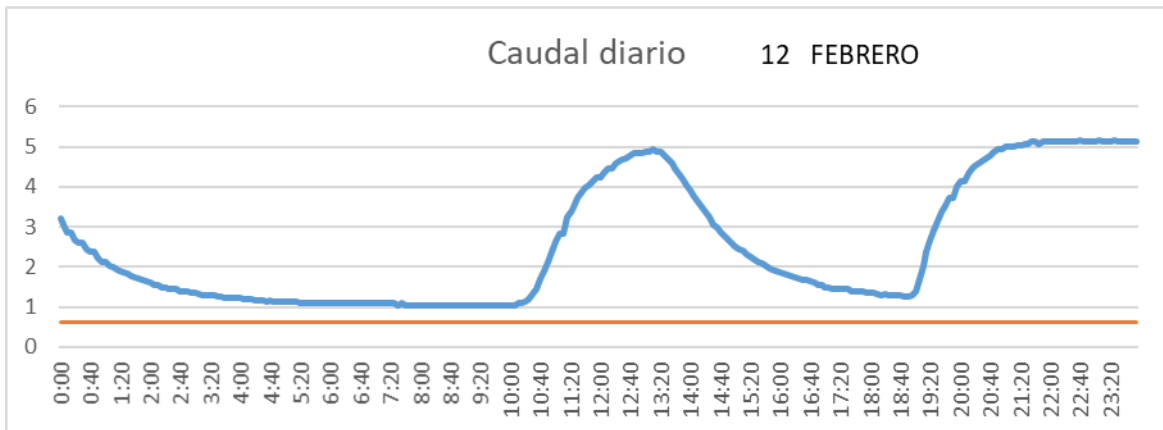
SAN LORENZO PARRILLA



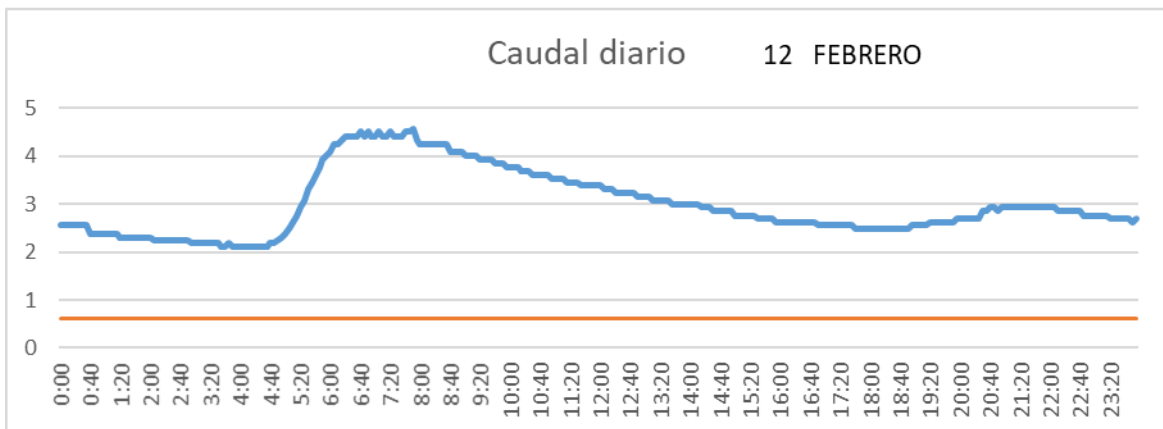
SALIDA TOBA



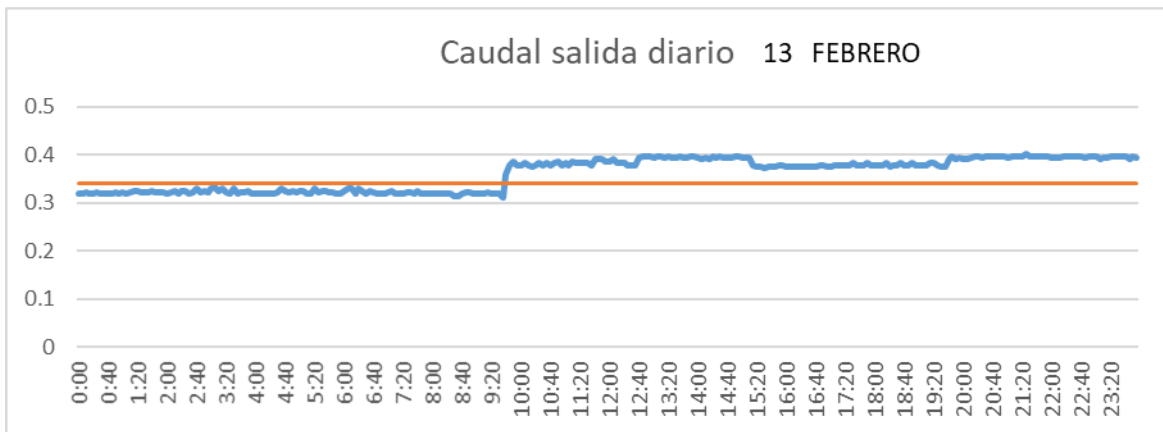
CUENCA



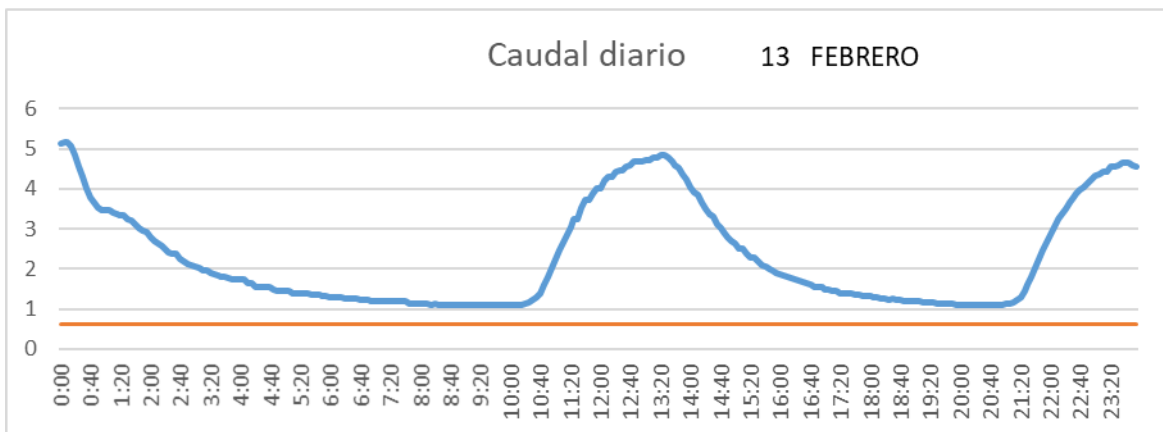
SAN LORENZO PARRILLA



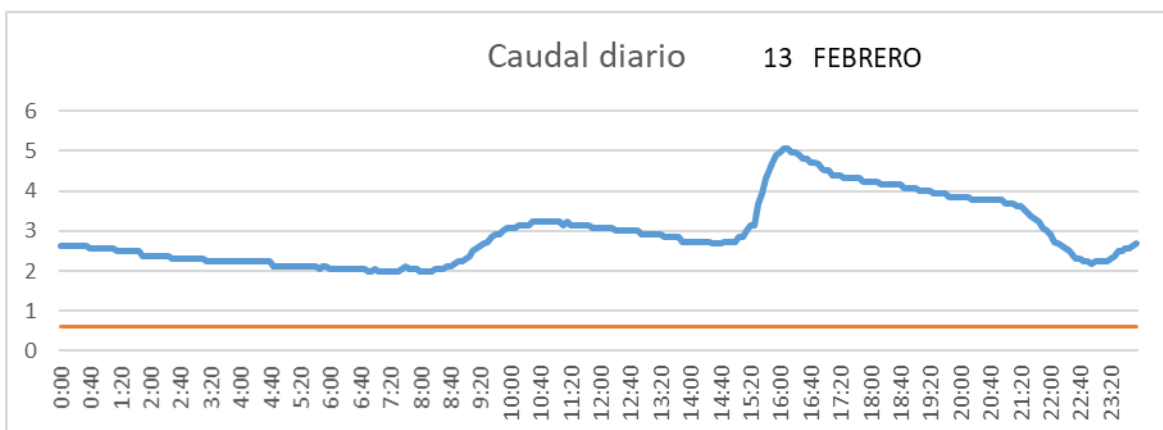
SALIDA TOBA



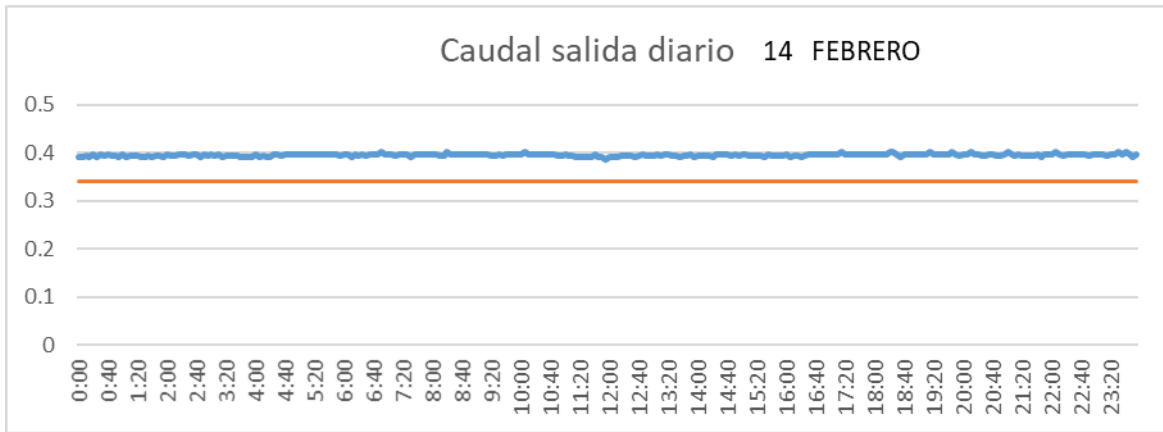
CUENCA



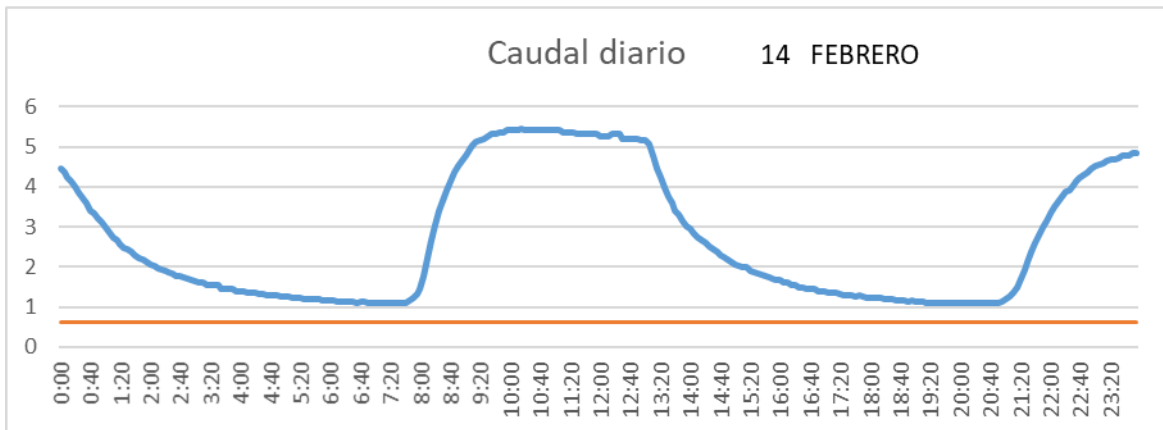
SAN LORENZO PARRILLA



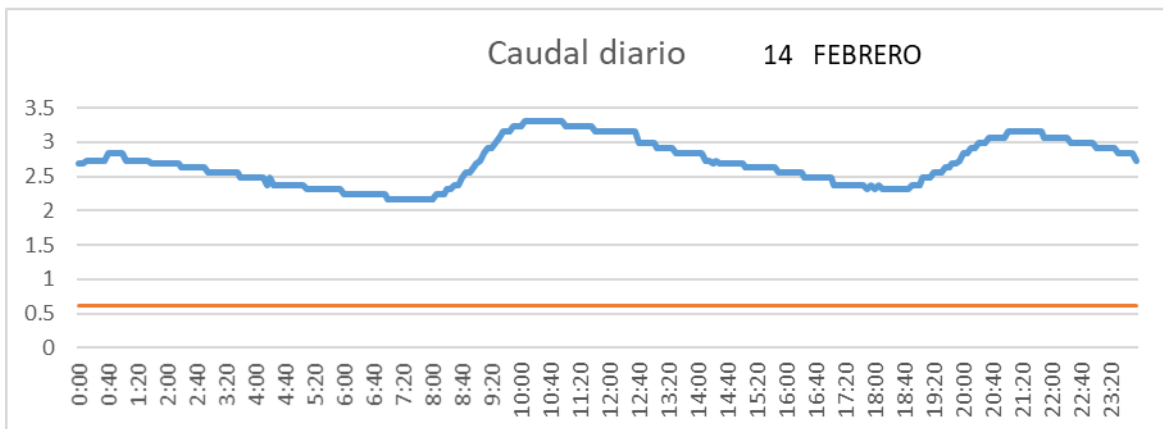
SALIDA TOBA



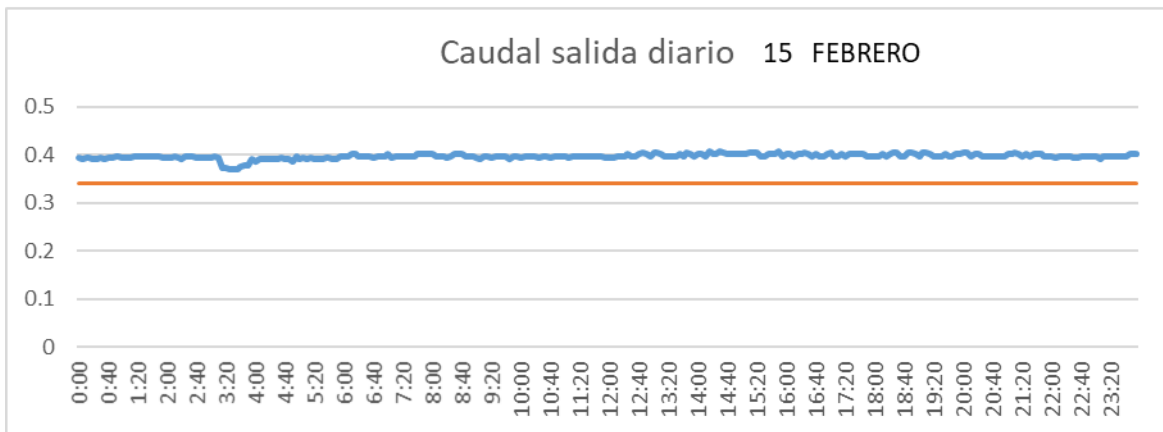
CUENCA



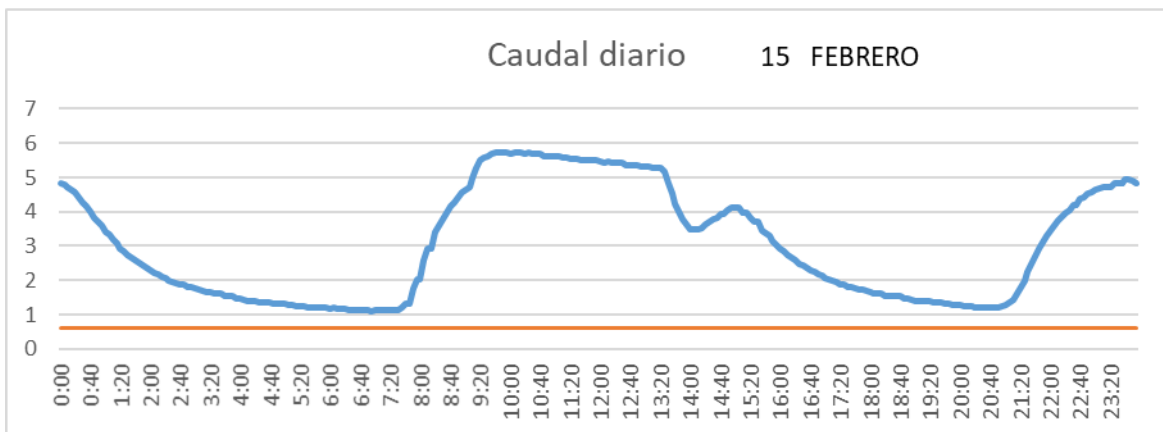
SAN LORENZO PARRILLA



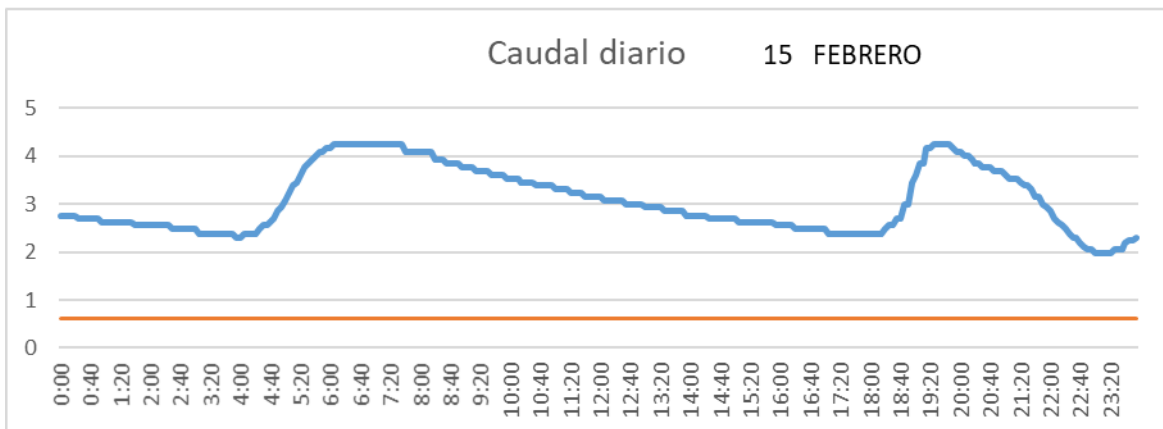
SALIDA TOBA



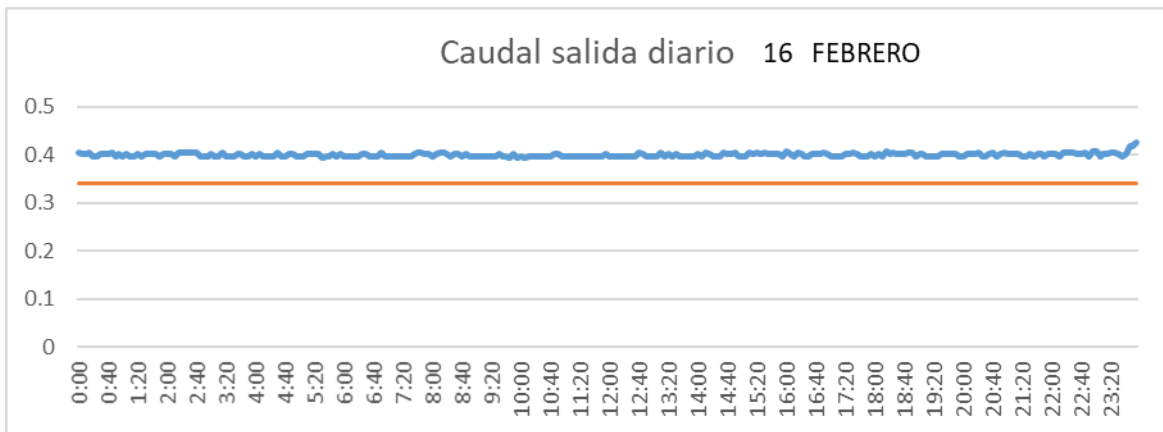
CUENCA



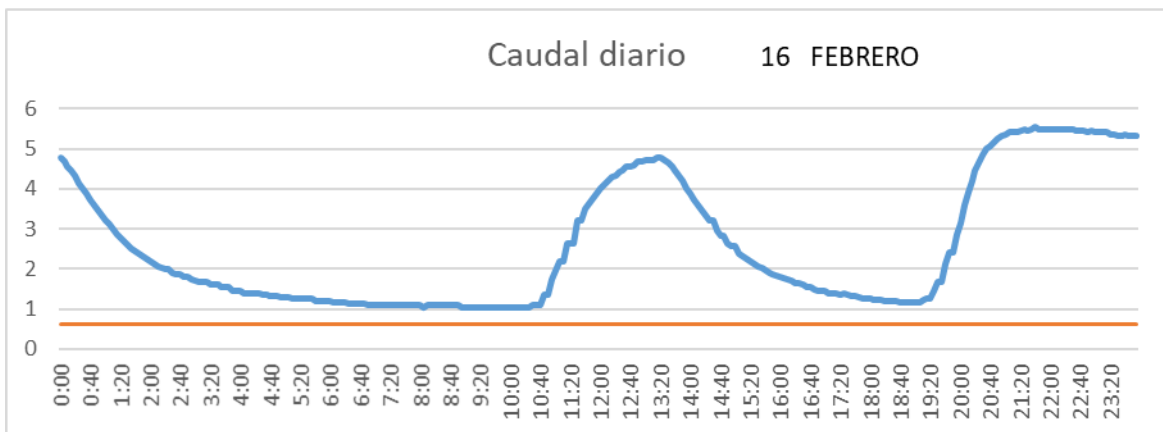
SAN LORENZO PARRILLA



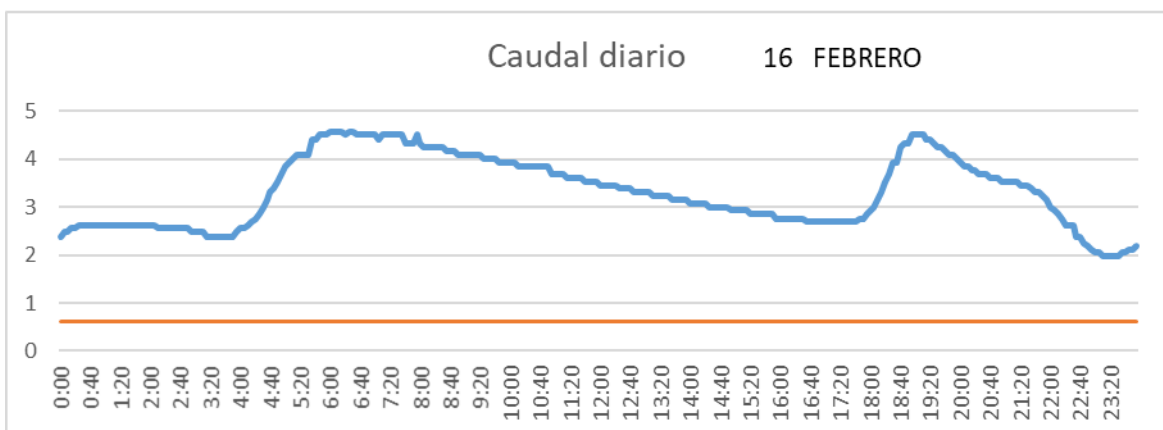
SALIDA TOBA



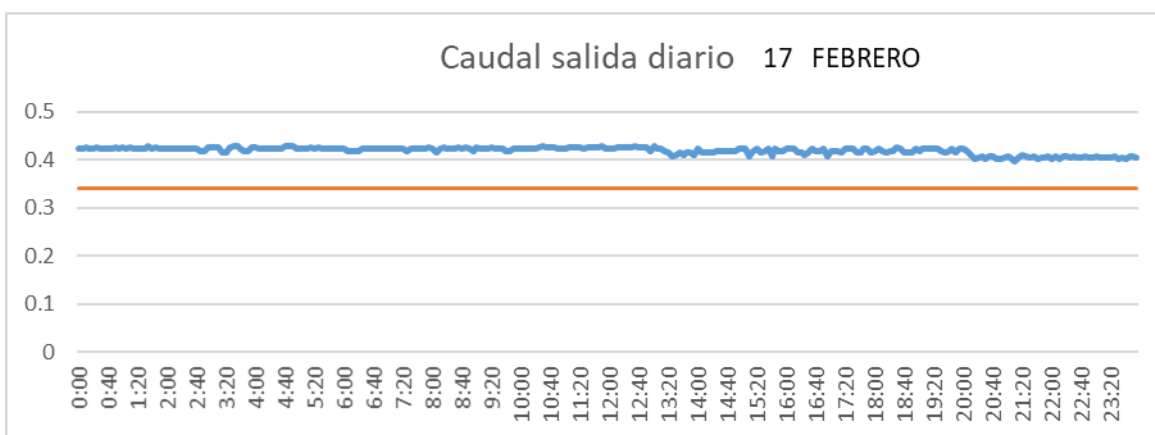
CUENCA



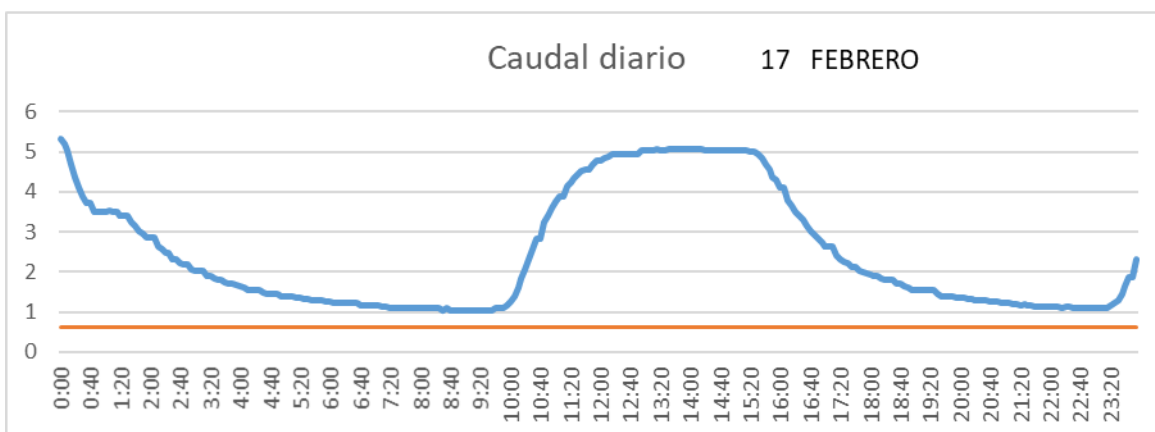
SAN LORENZO PARRILLA



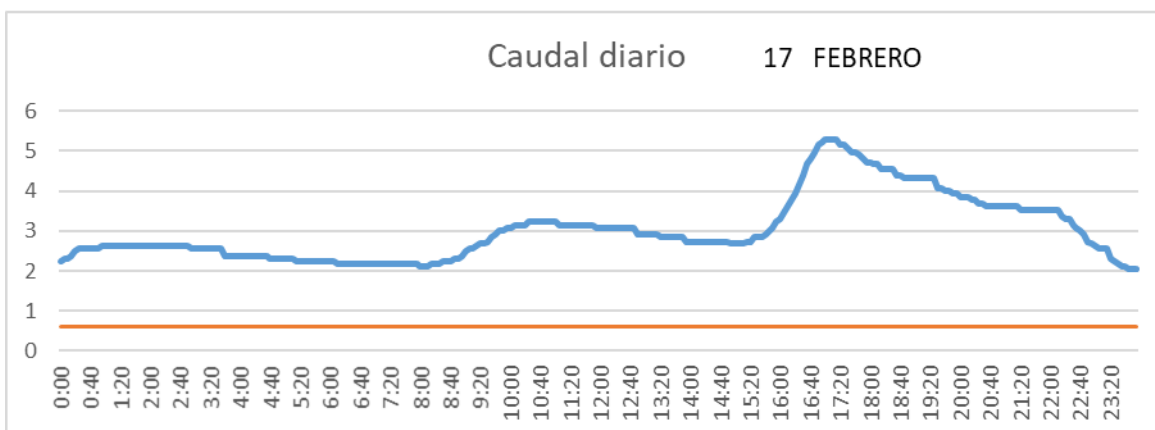
SALIDA TOBA



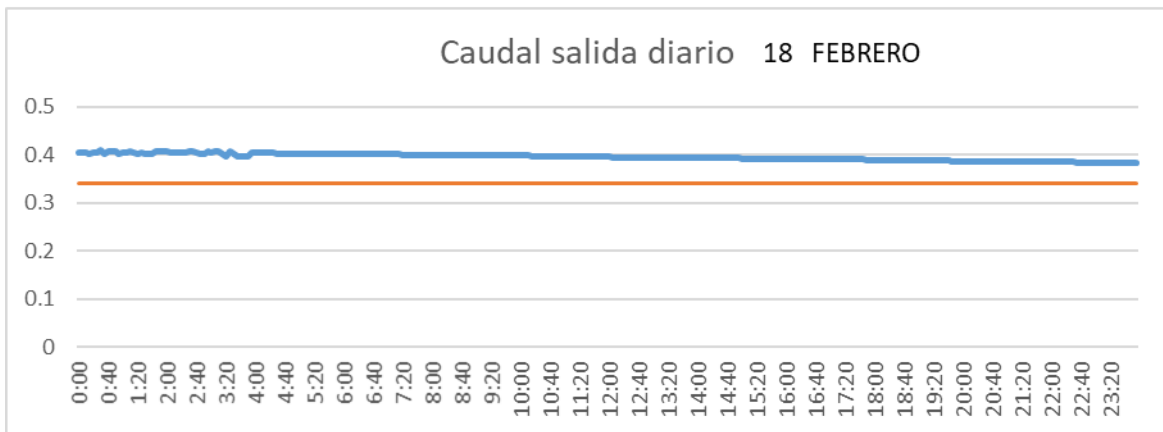
CUENCA



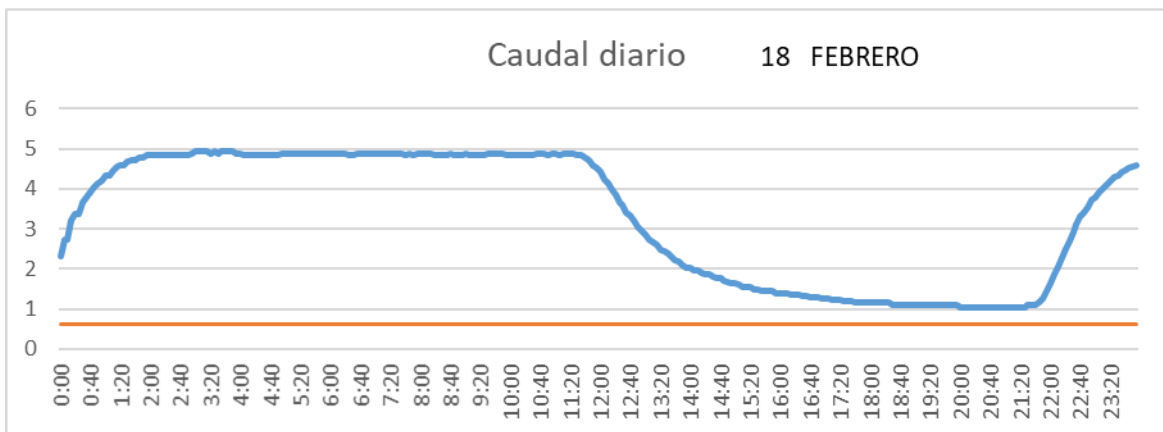
SAN LORENZO PARRILLA



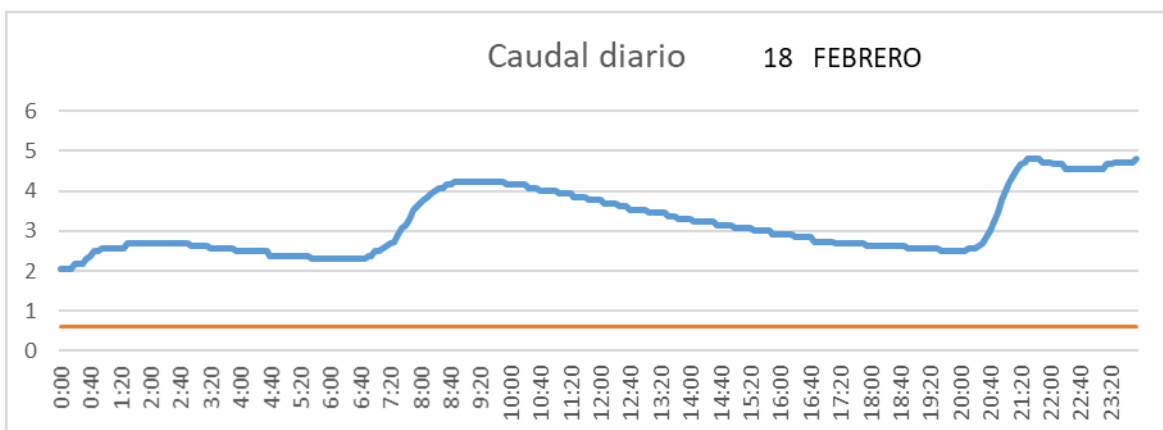
SALIDA TOBA



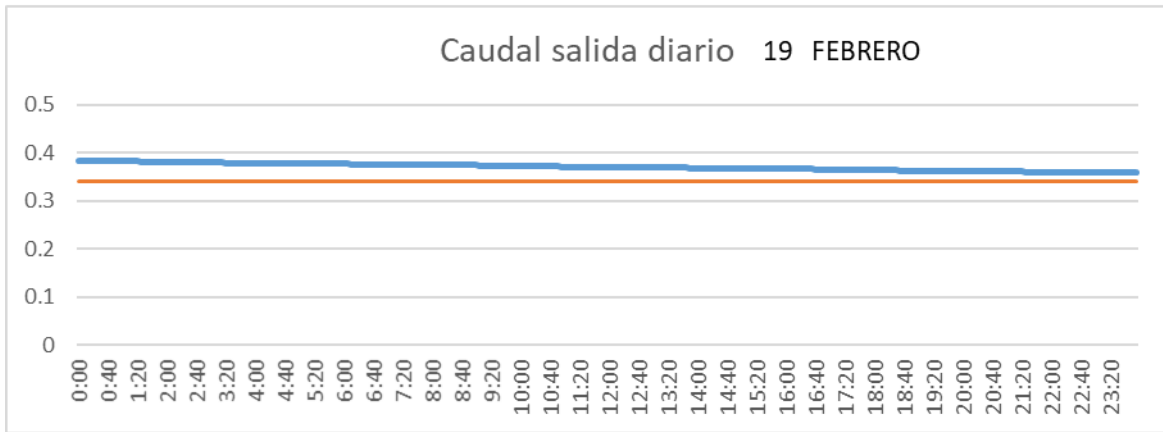
CUENCA



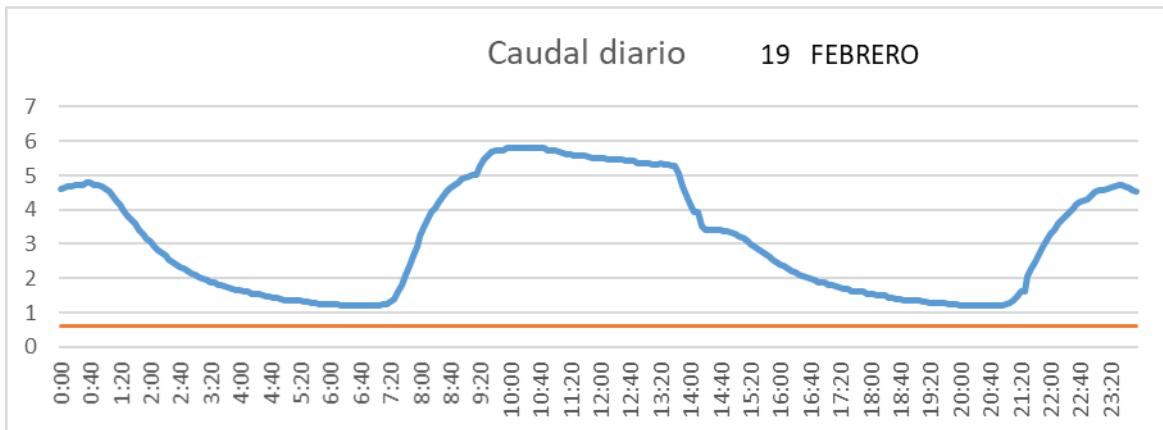
SAN LORENZO PARRILLA



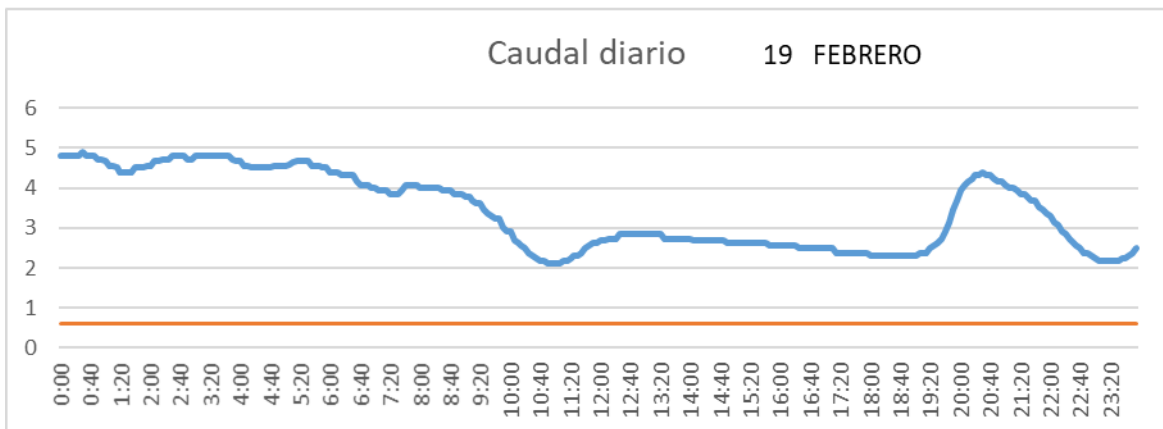
SALIDA TOBA



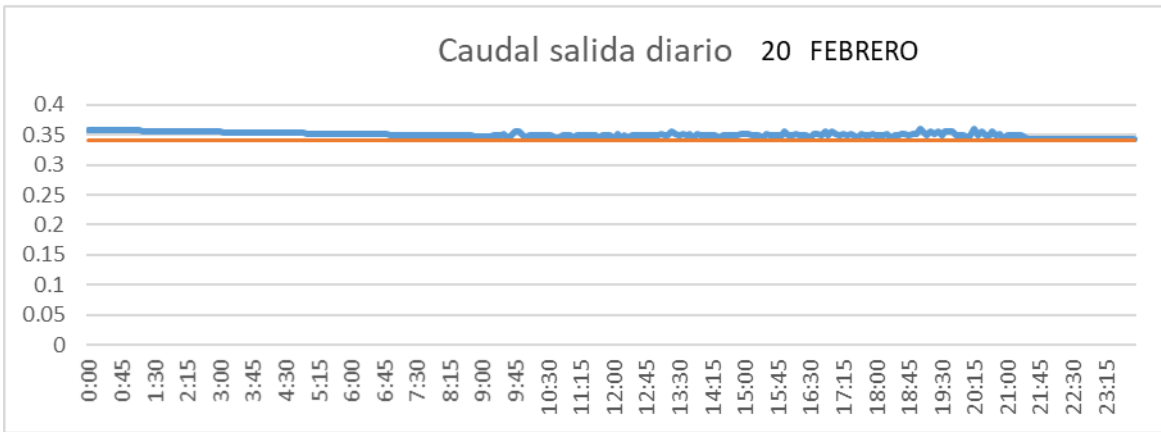
CUENCA



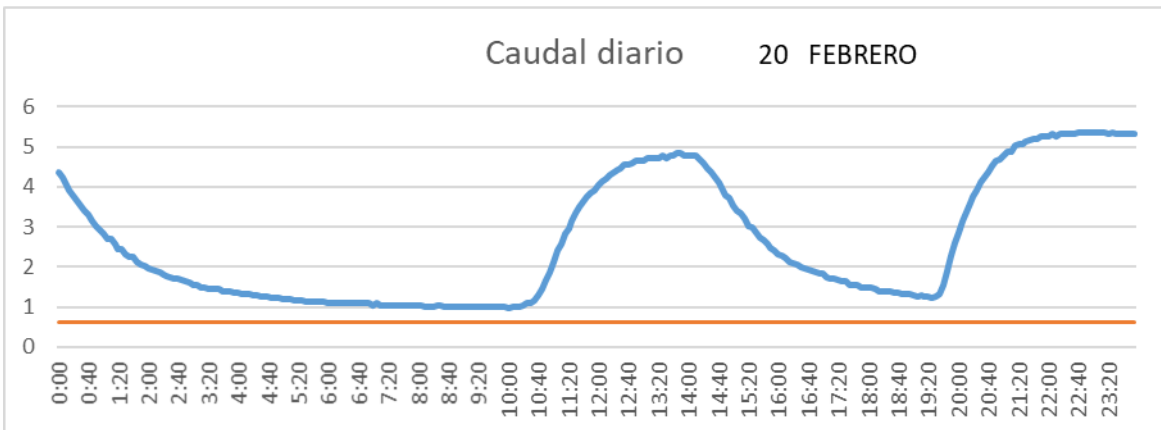
SAN LORENZO PARRILLA



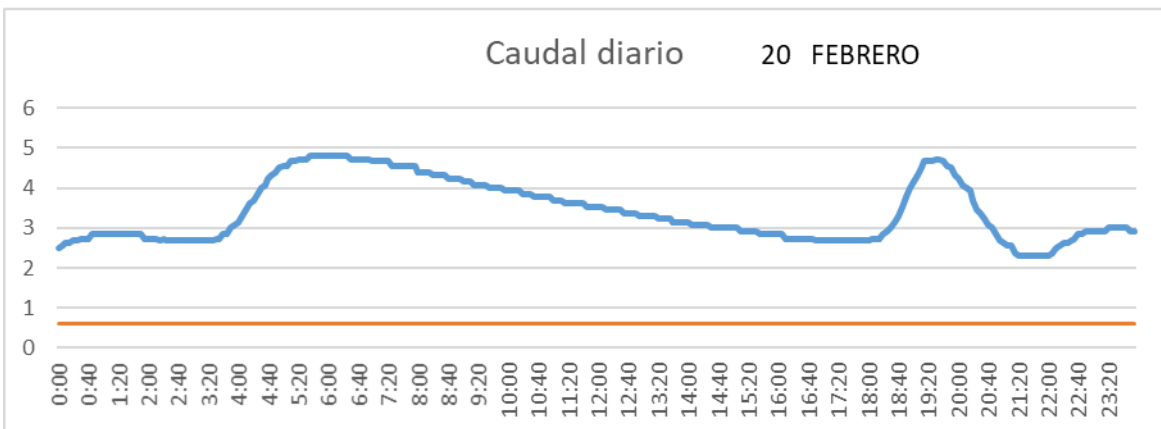
SALIDA TOBA



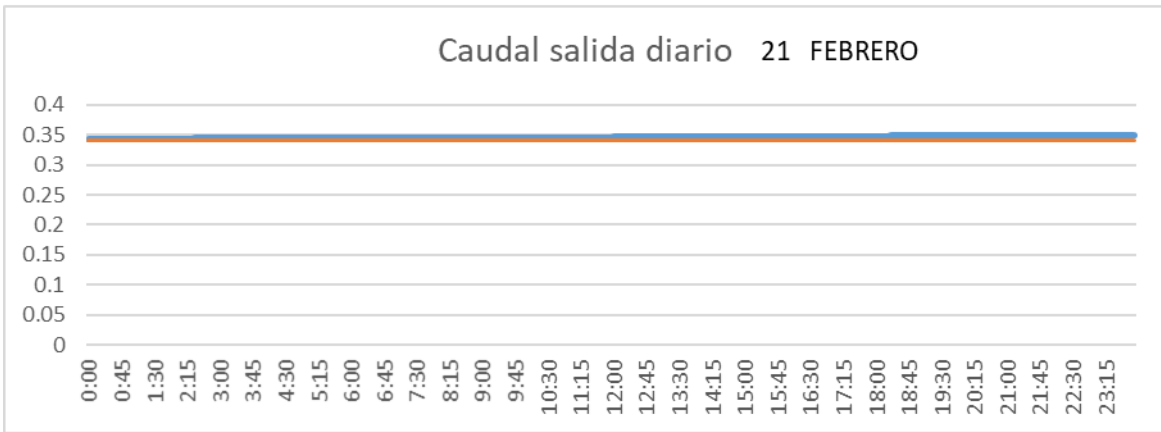
CUENCA



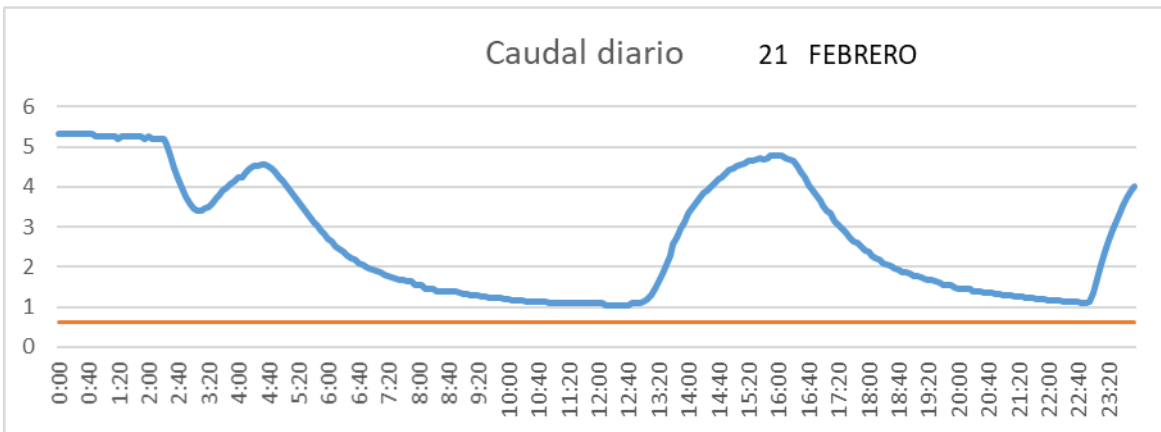
SAN LORENZO PARRILLA



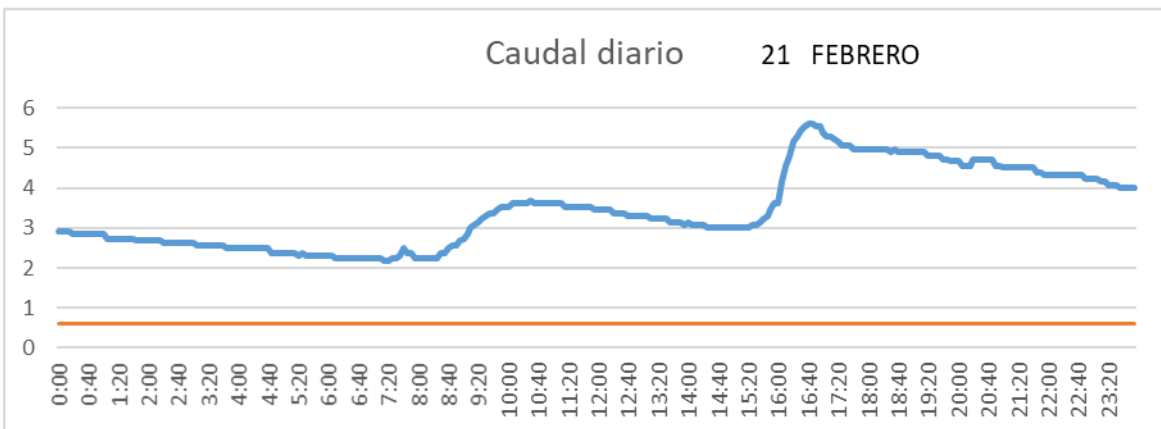
SALIDA TOBA



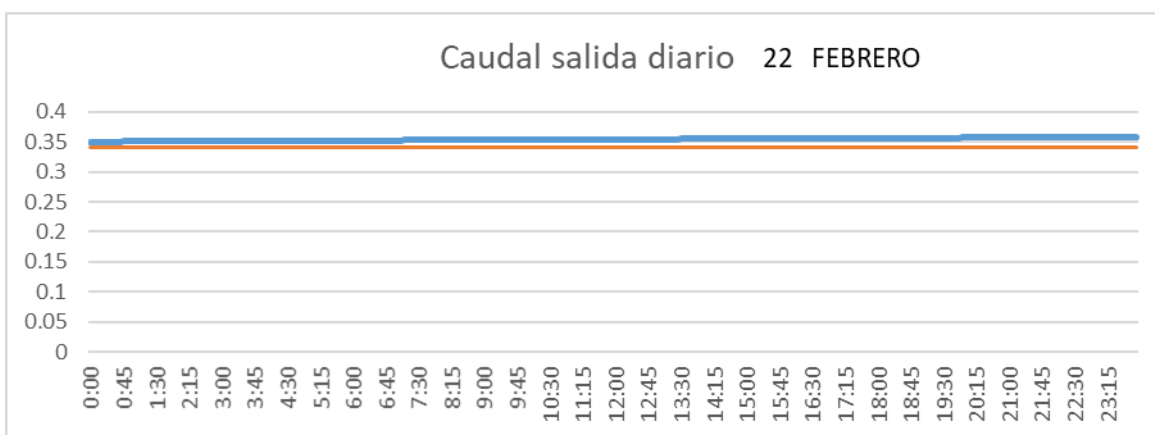
CUENCA



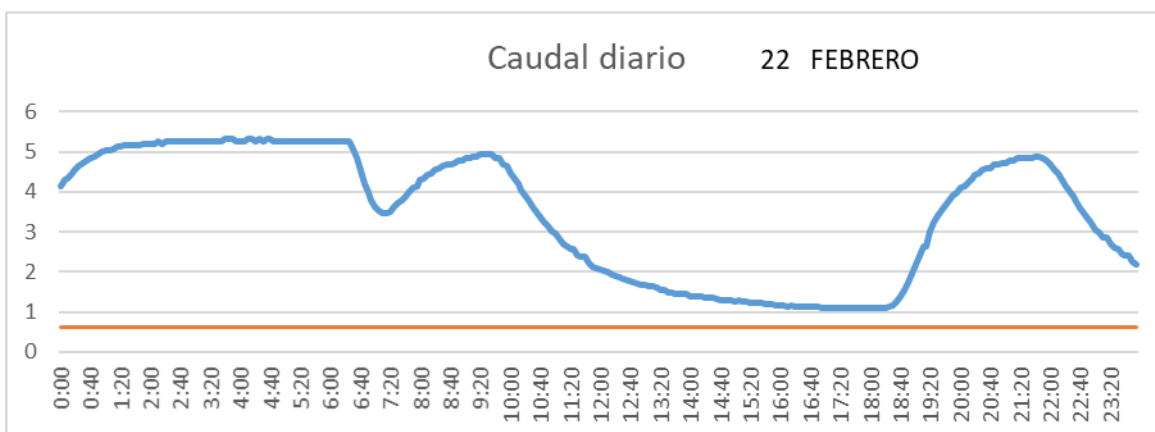
SAN LORENZO PARRILLA



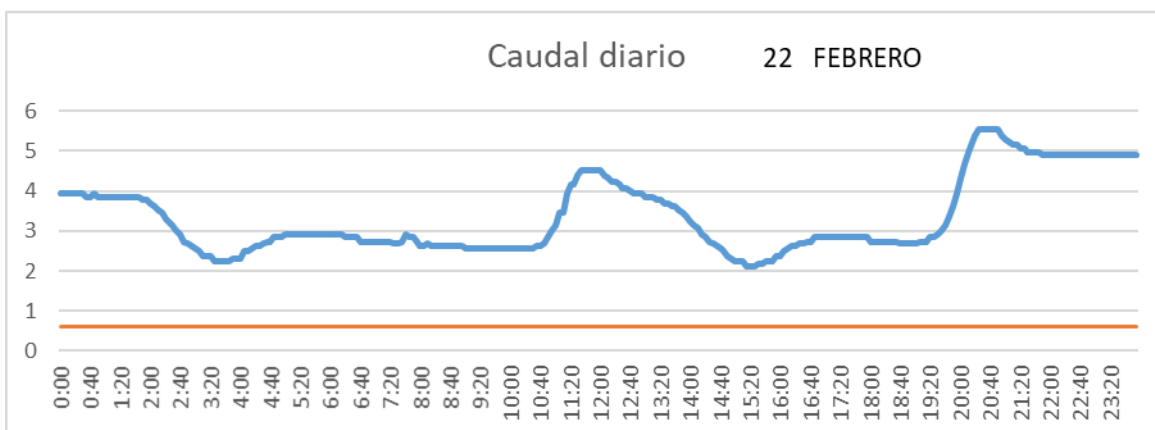
SALIDA TOBA



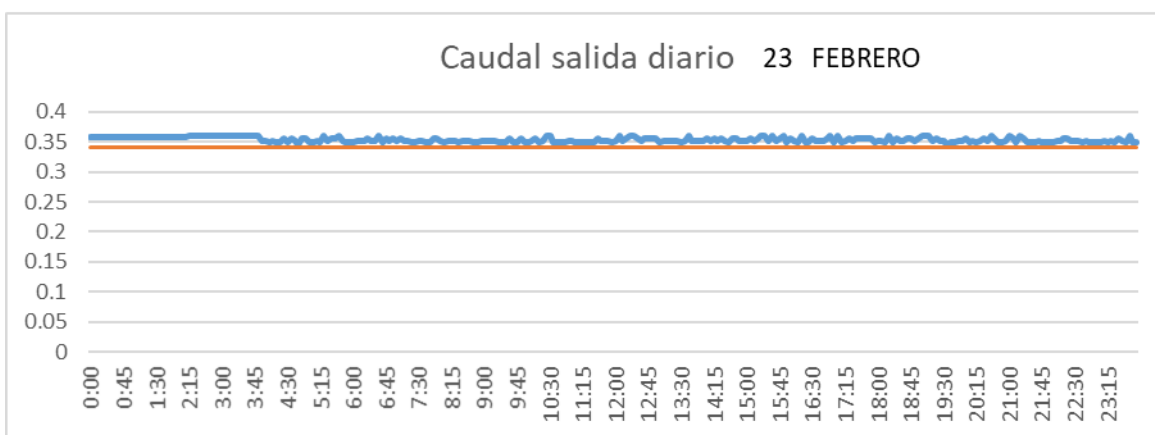
CUENCA



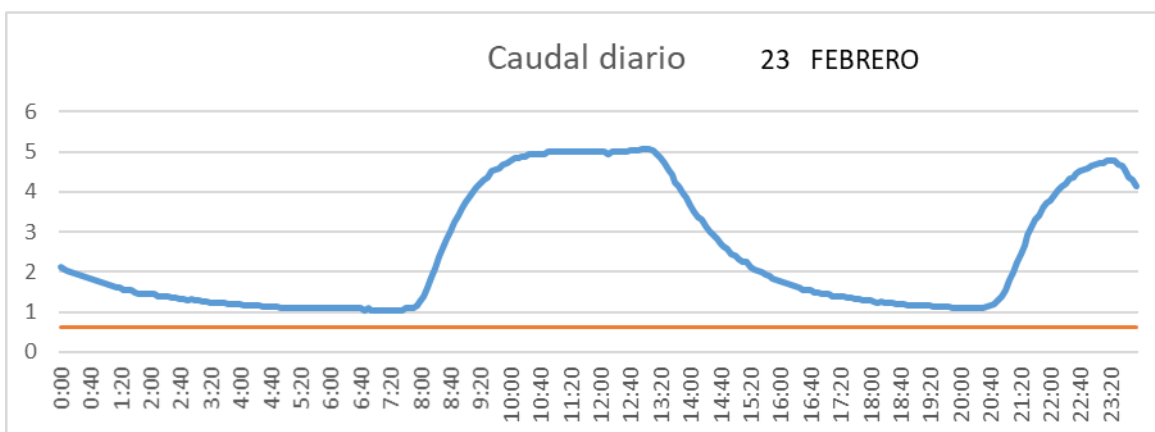
SAN LORENZO PARRILLA



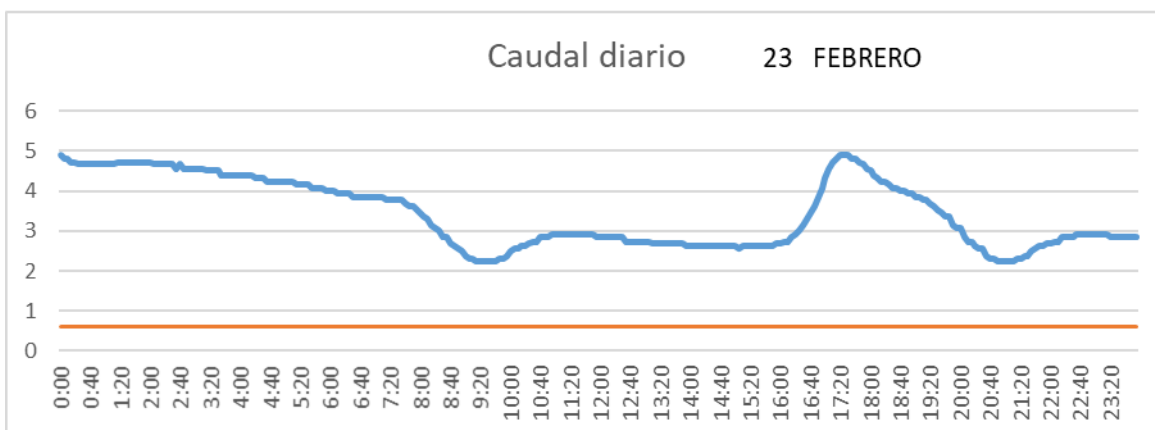
SALIDA TOBA



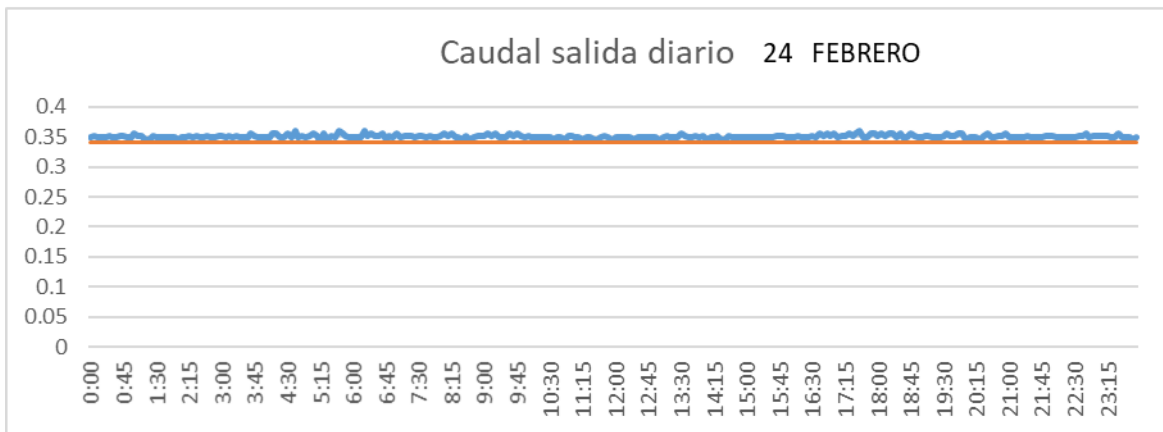
CUENCA



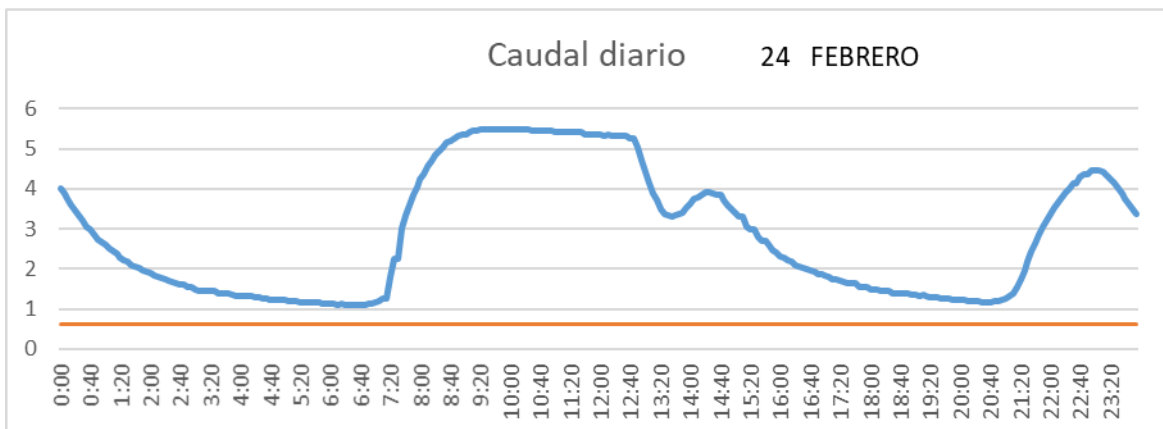
SAN LORENZO PARRILLA



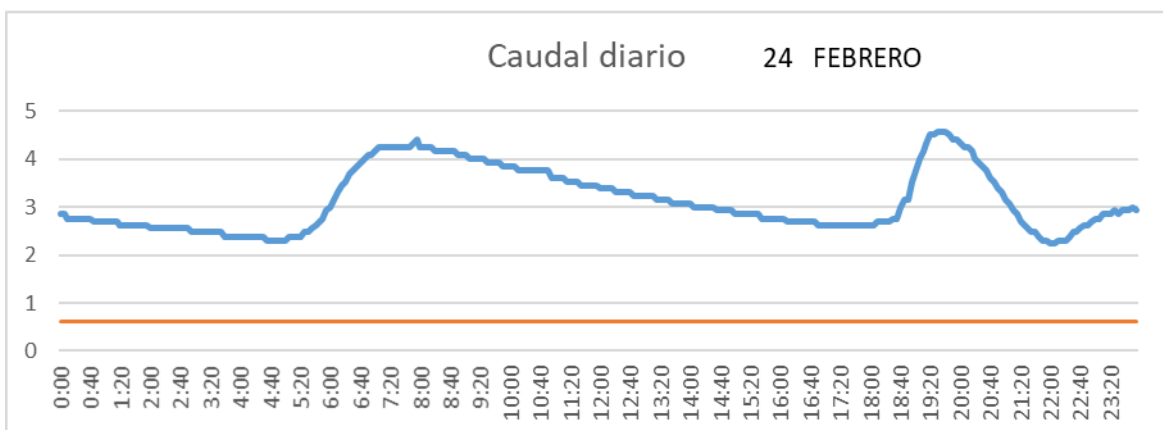
SALIDA TOBA



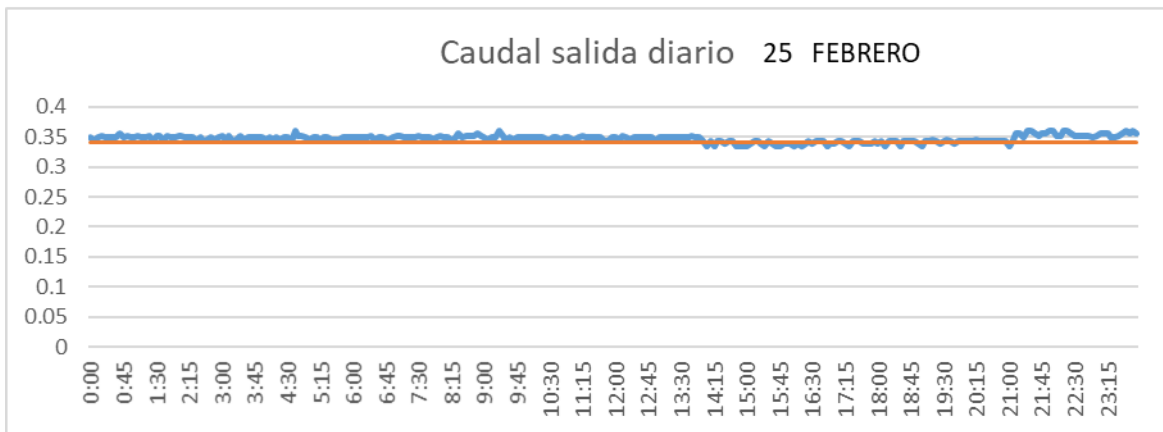
CUENCA



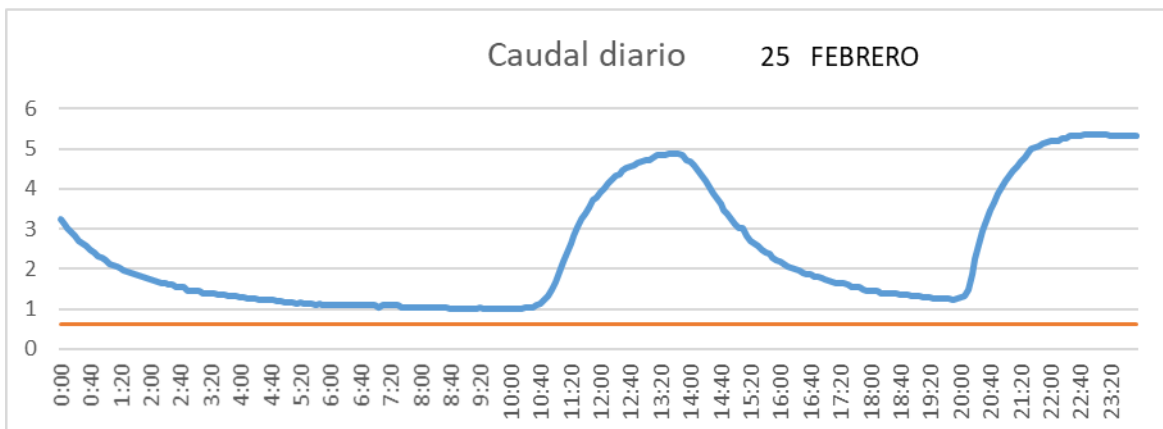
SAN LORENZO PARRILLA



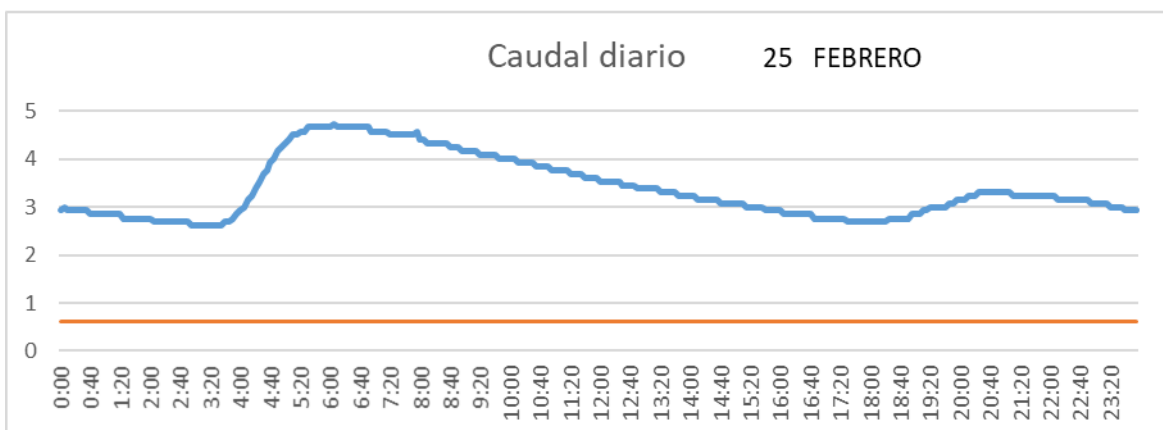
SALIDA TOBA



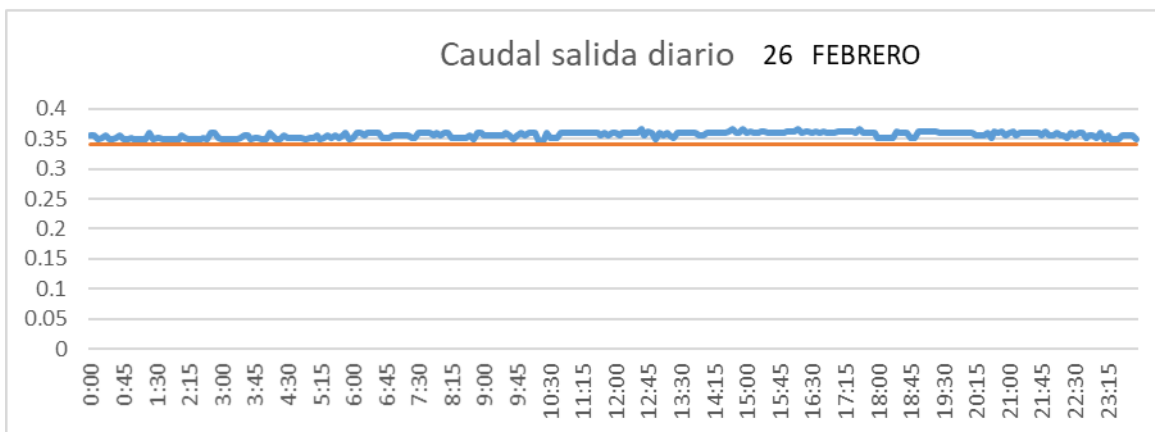
CUENCA



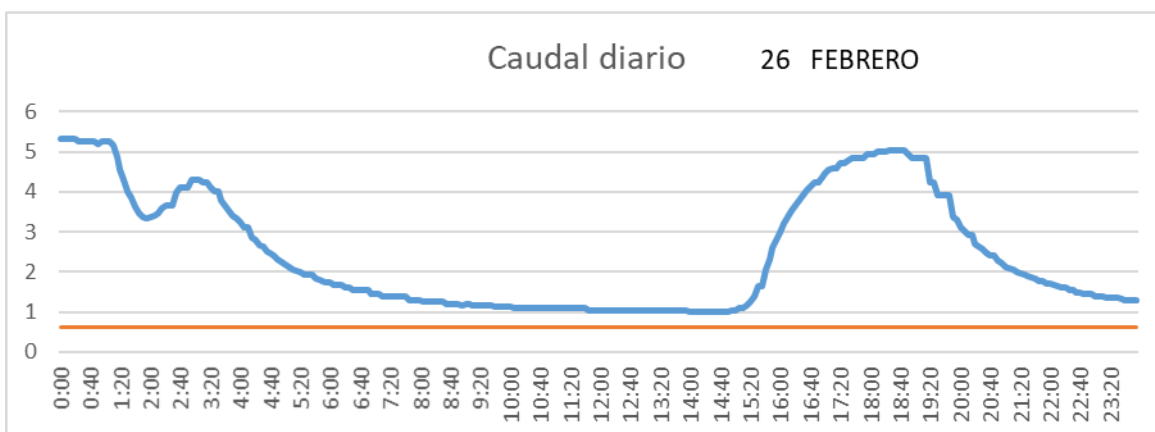
SAN LORENZO PARRILLA



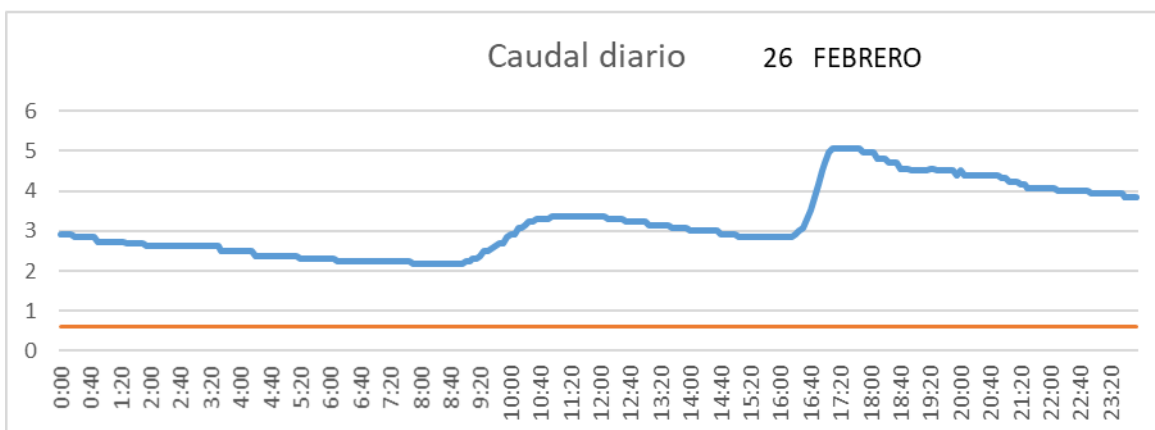
SALIDA TOBA



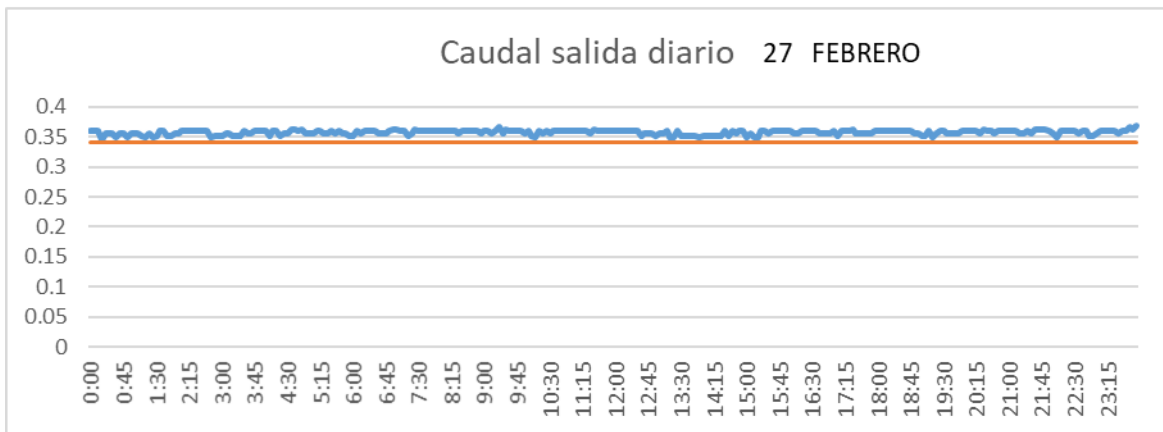
CUENCA



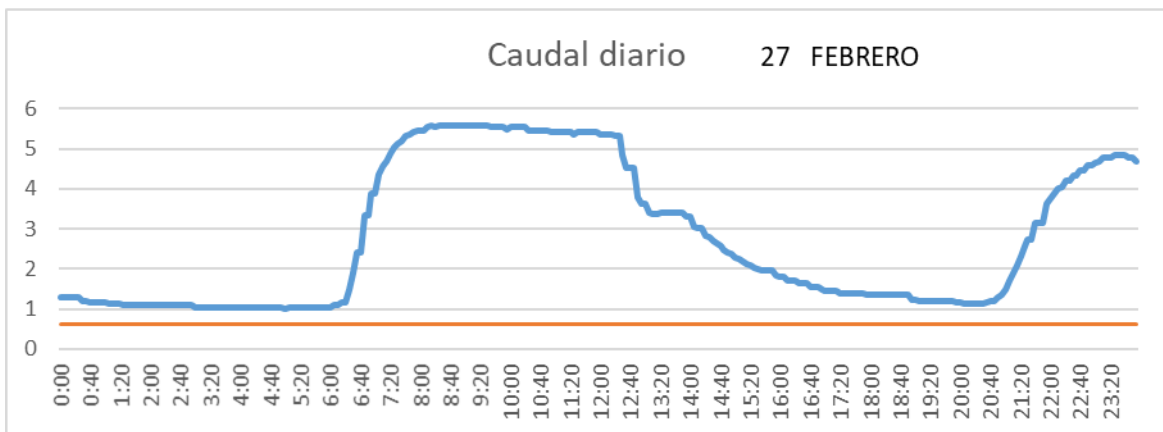
SAN LORENZO PARRILLA



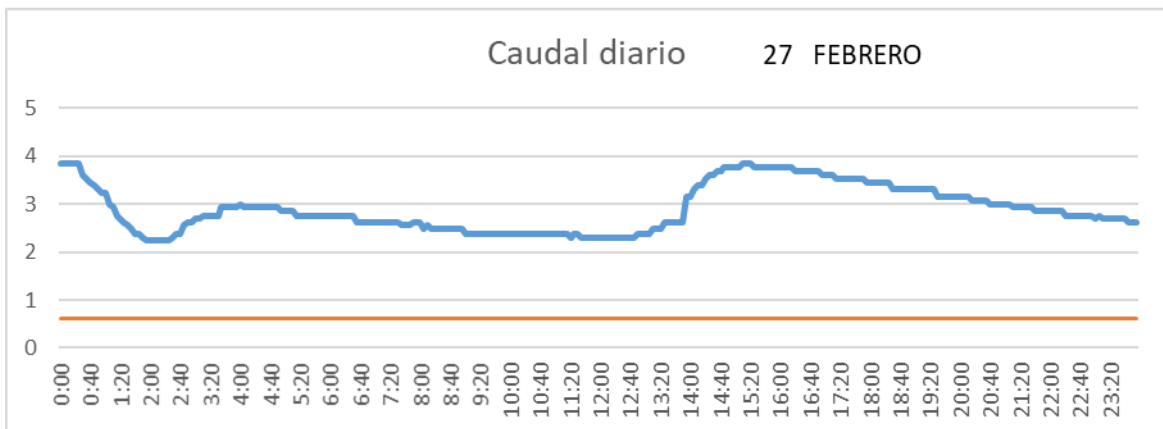
SALIDA TOBA



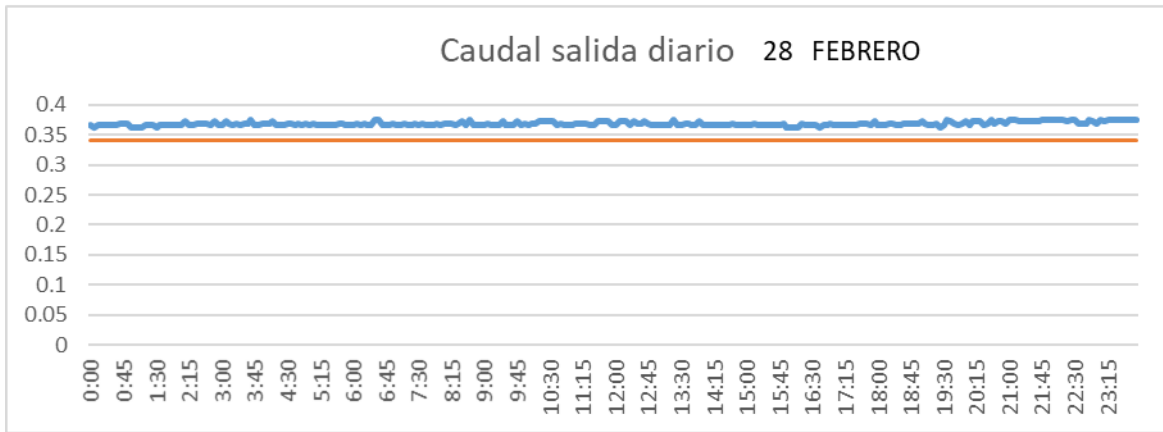
CUENCA



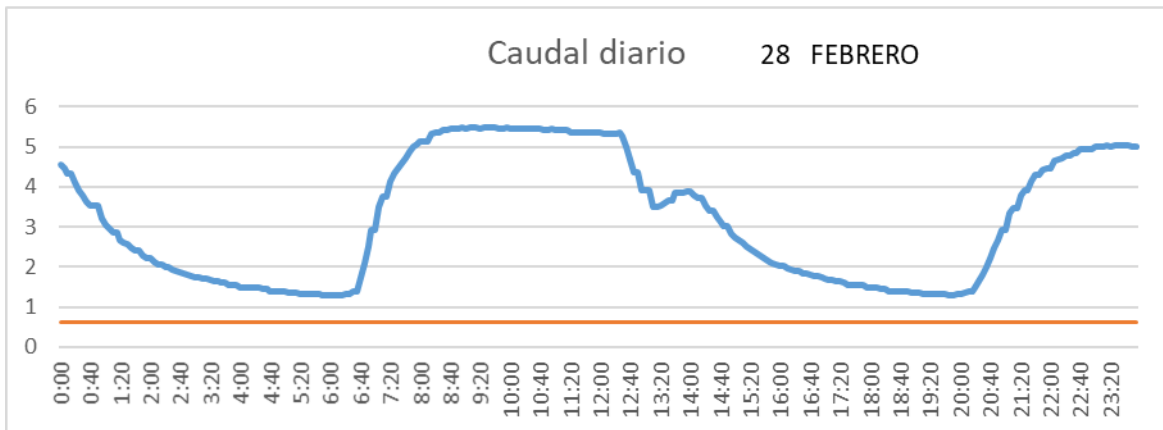
SAN LORENZO PARRILLA



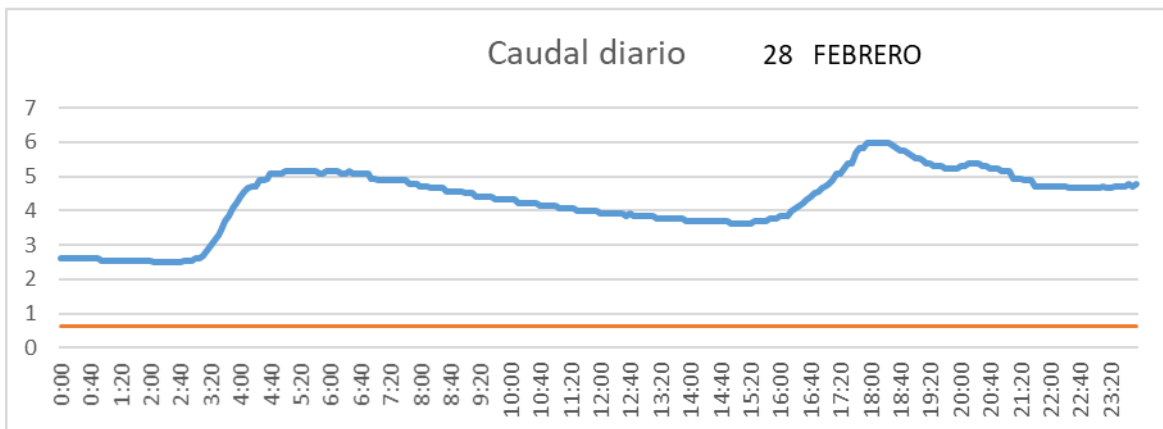
SALIDA TOBA



CUENCA

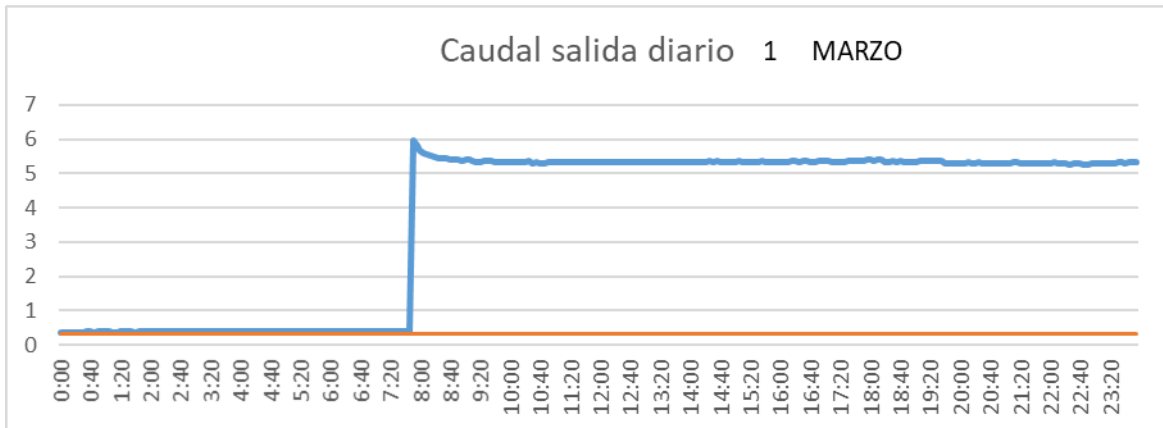


SAN LORENZO PARRILLA

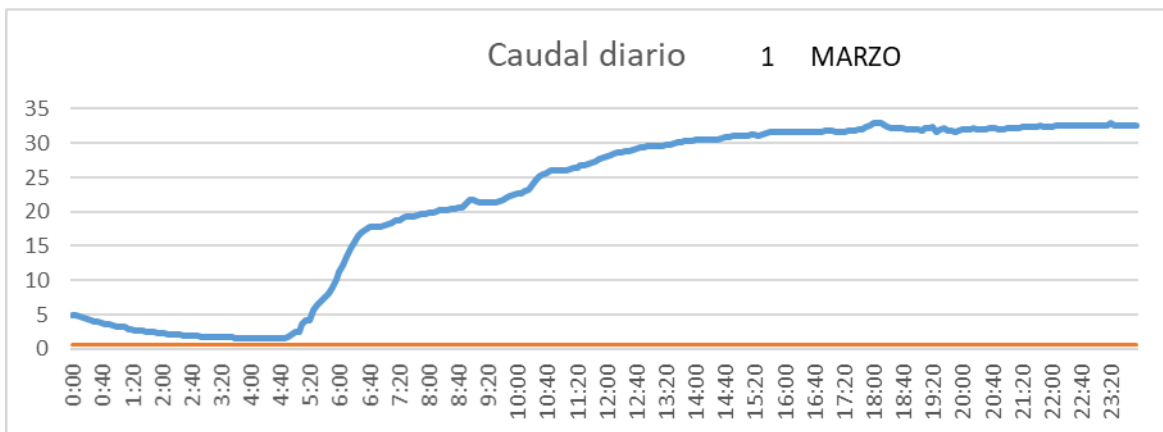


2.3.3 Marzo

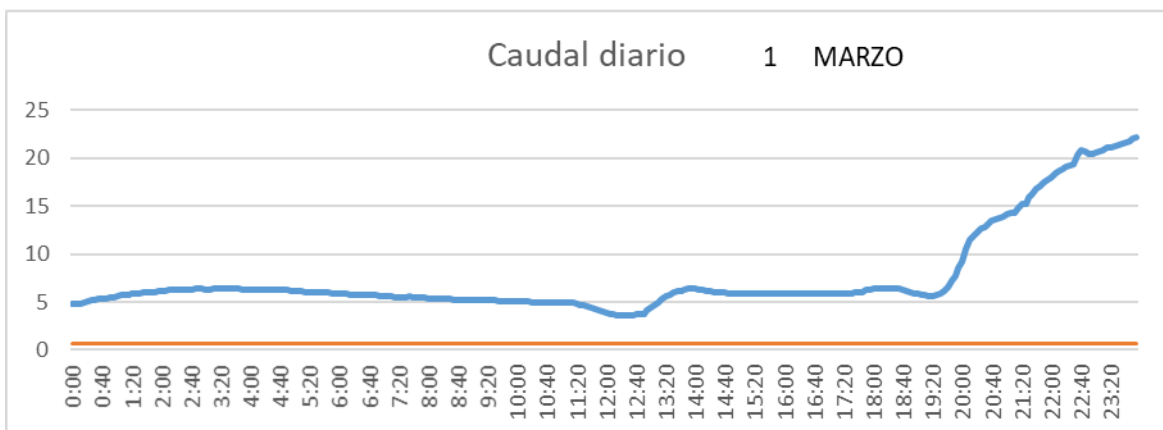
SALIDA TOBA



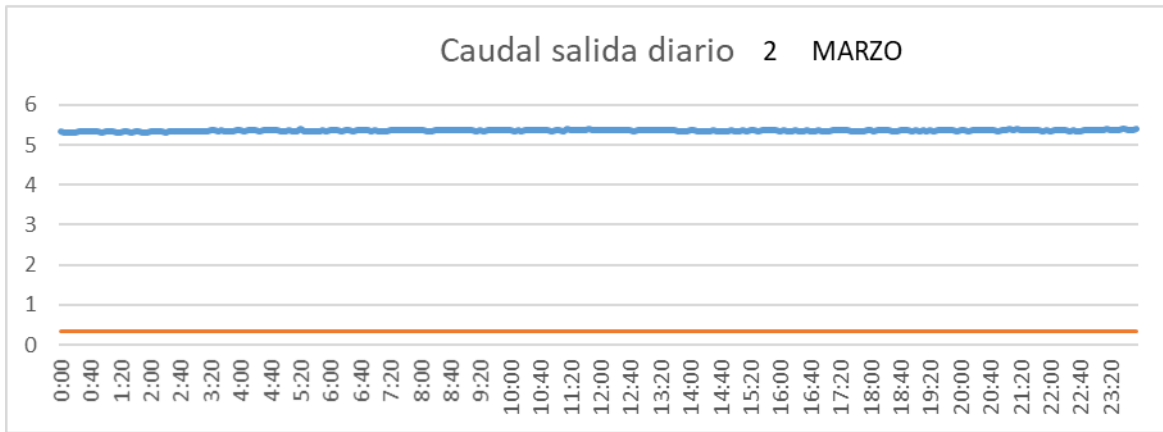
CUENCA



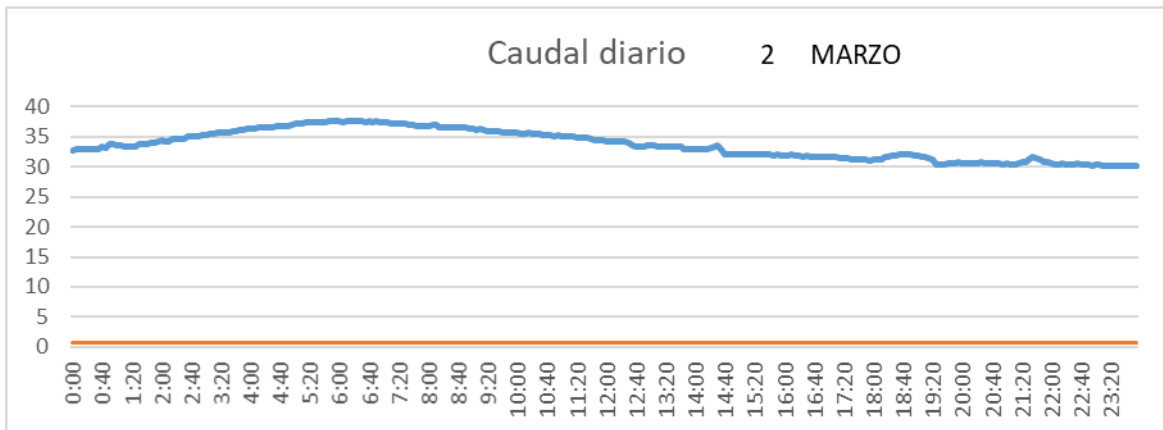
SAN LORENZO PARRILLA



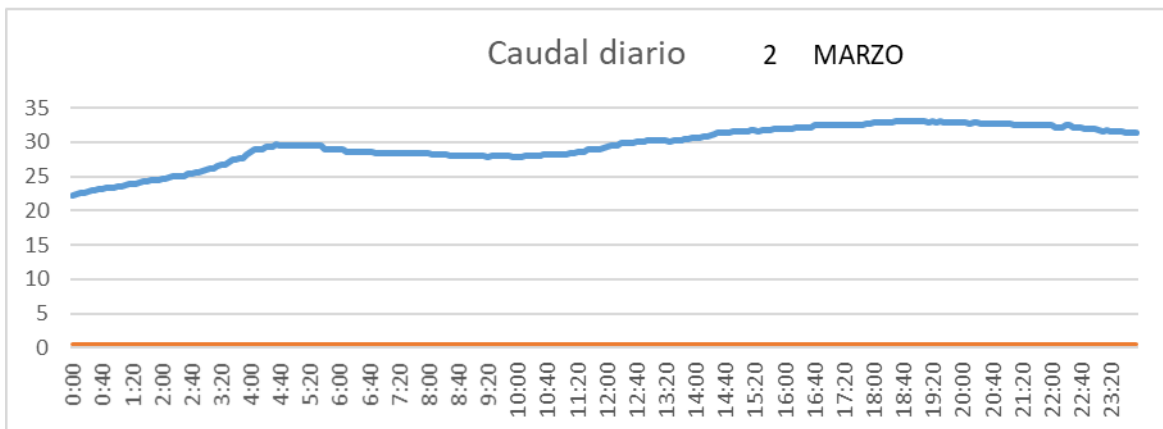
SALIDA TOBA



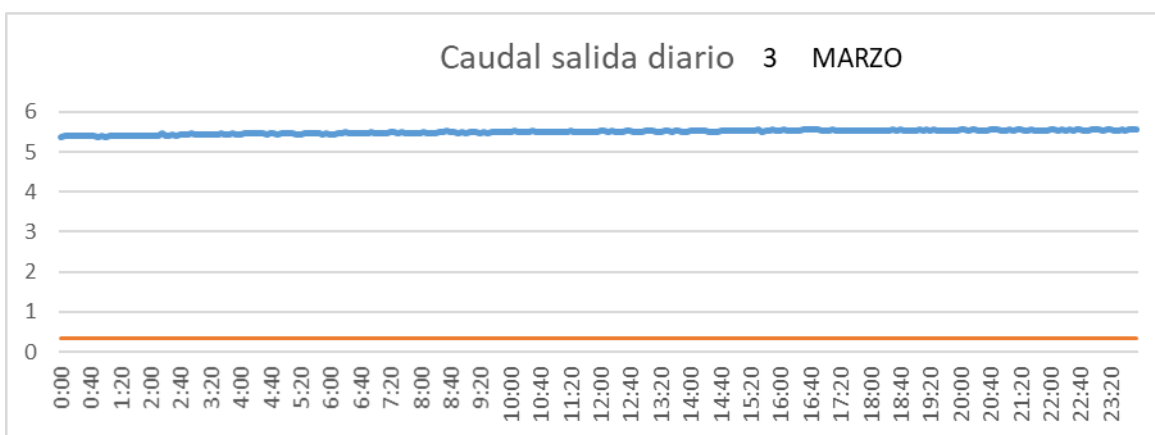
CUENCA



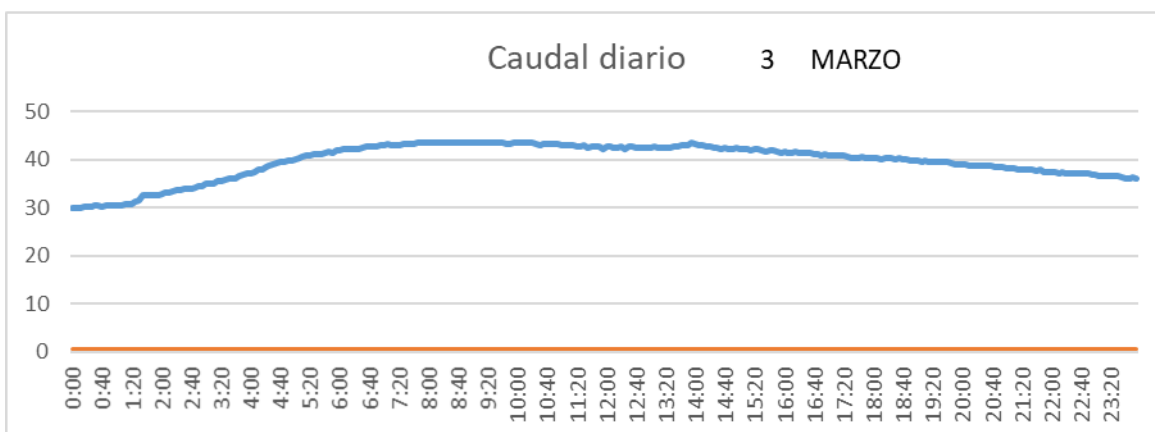
SAN LORENZO PARRILLA



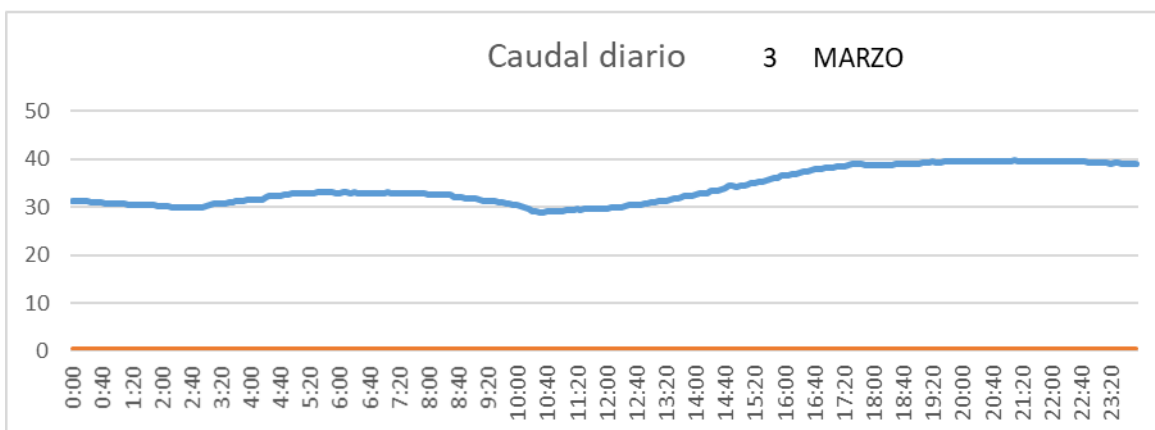
SALIDA TOBA



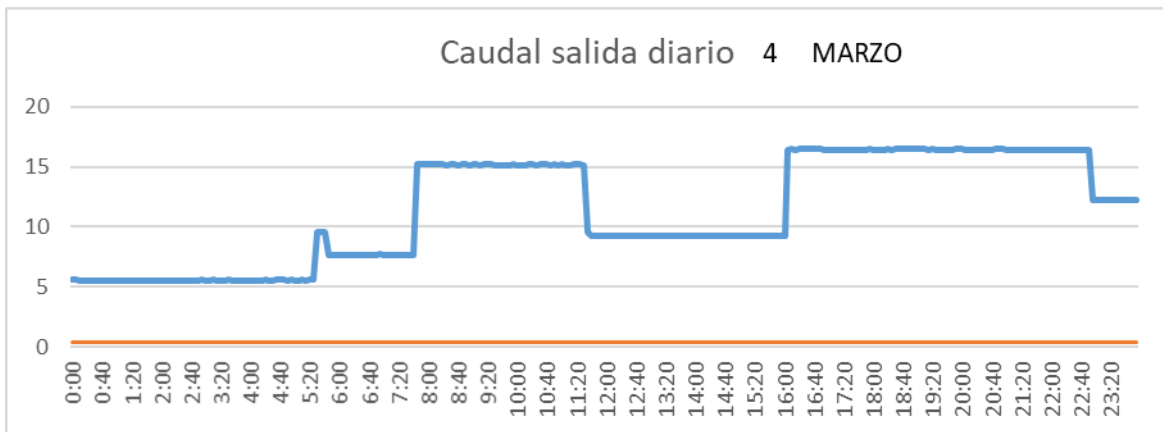
CUENCA



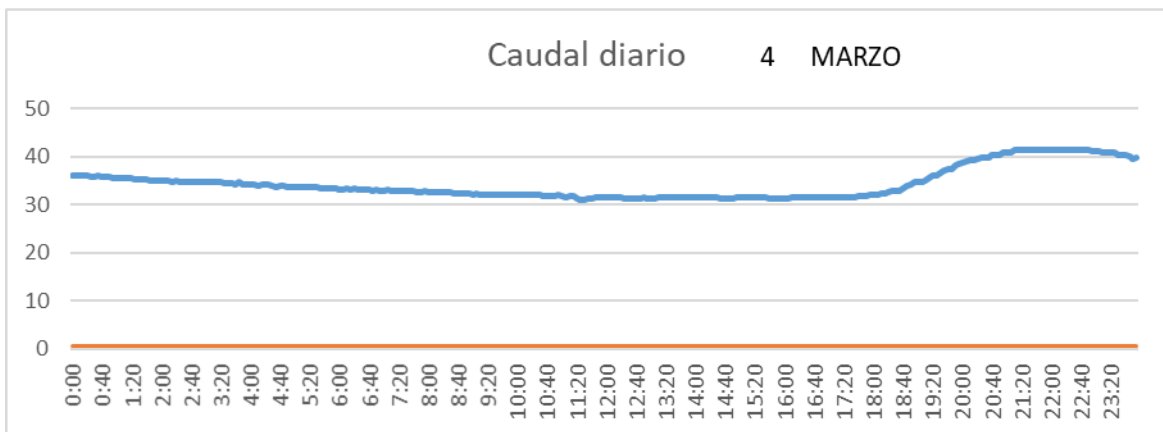
SAN LORENZO PARRILLA



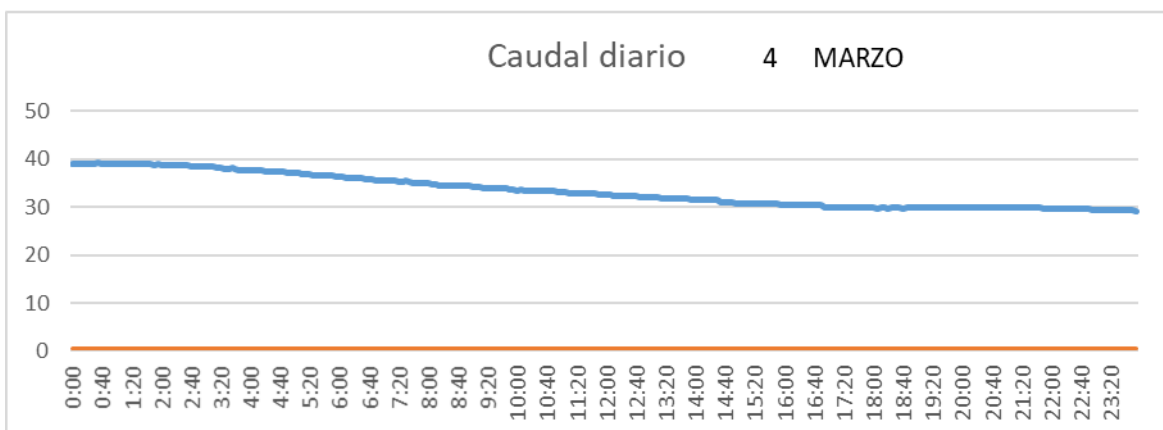
SALIDA TOBA



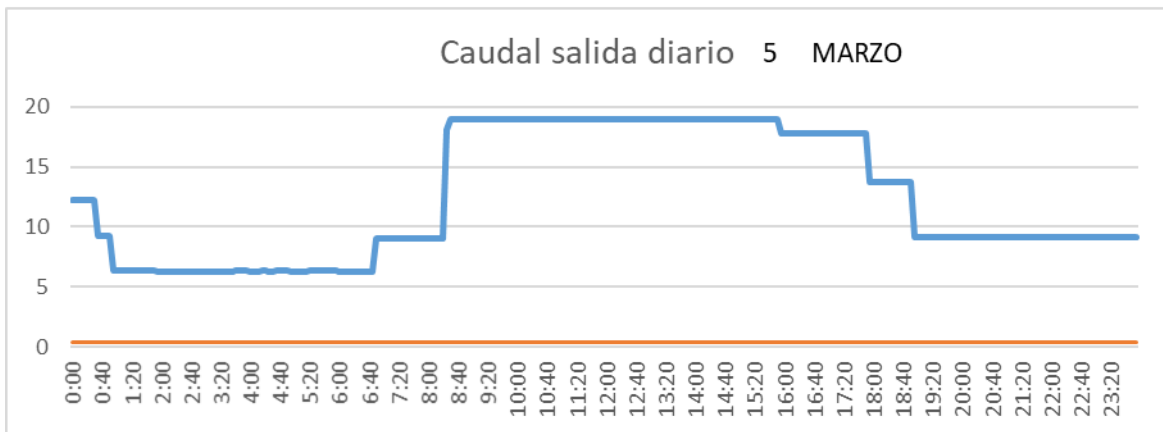
CUENCA



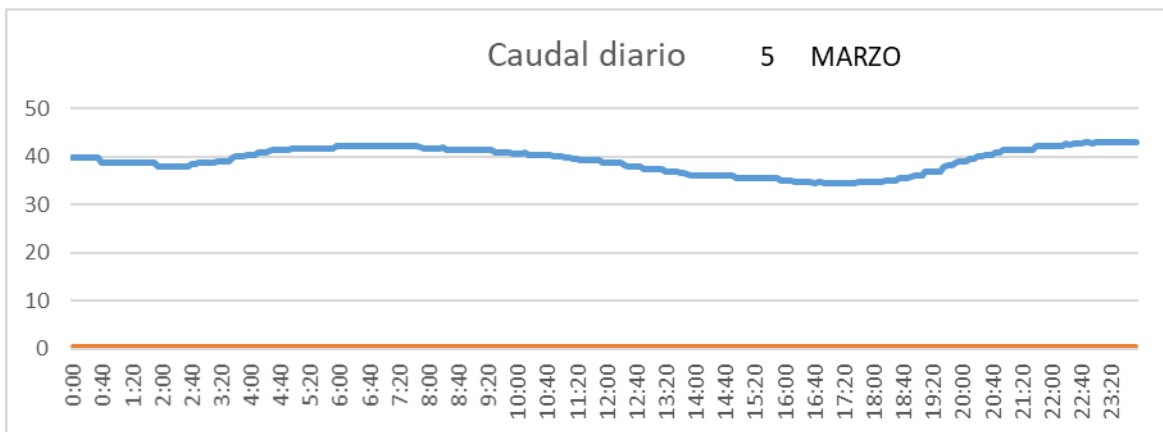
SAN LORENZO PARRILLA



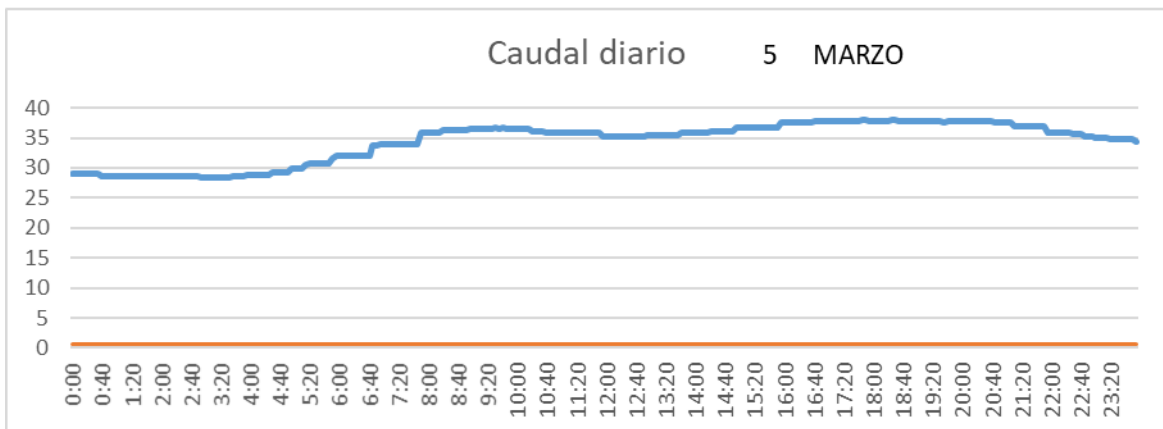
SALIDA TOBA



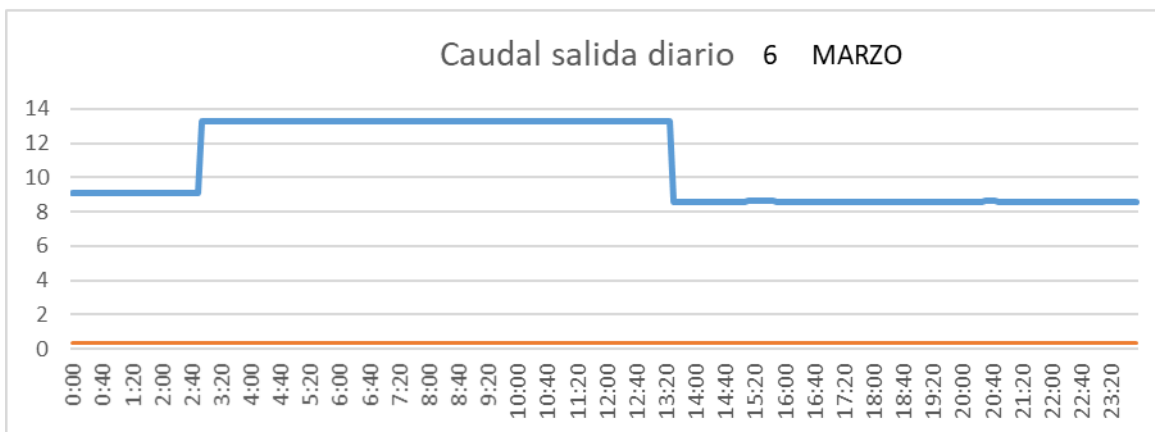
CUENCA



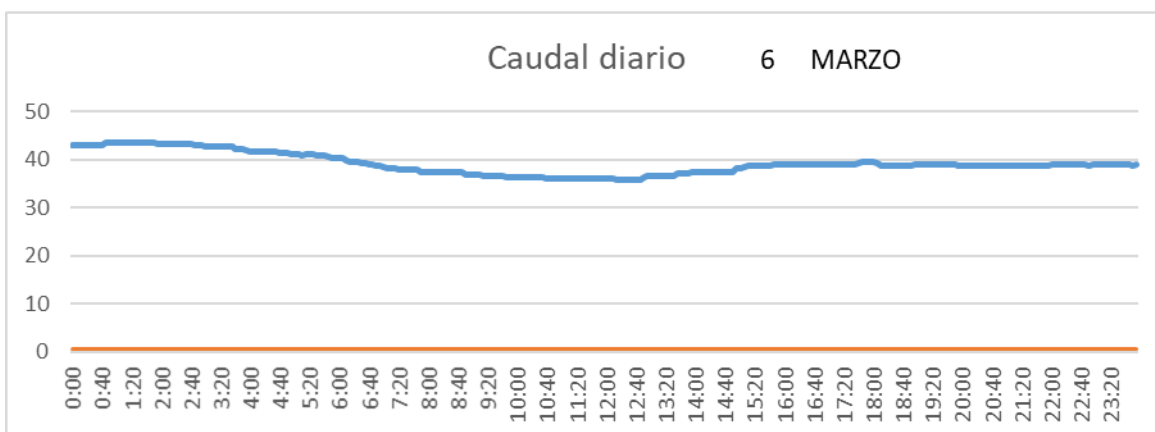
SAN LORENZO PARRILLA



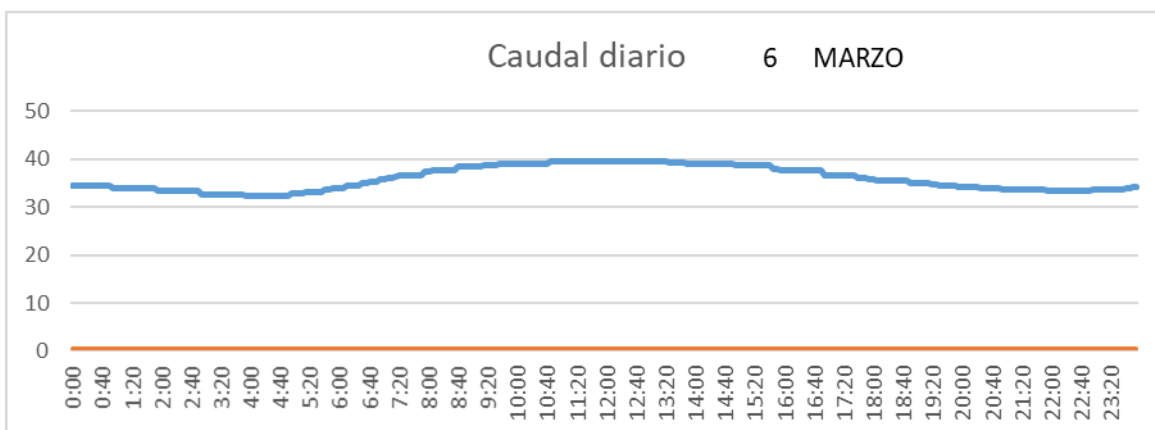
SALIDA TOBA



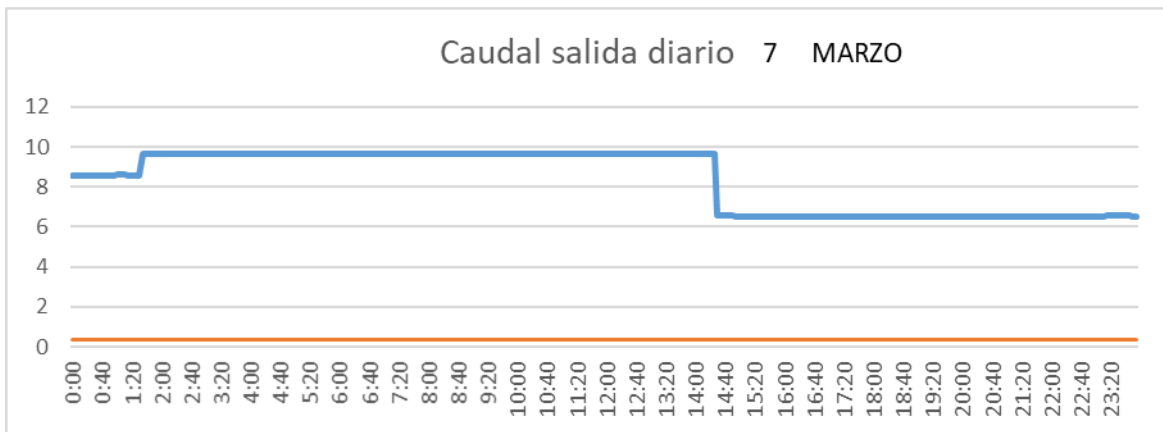
CUENCA



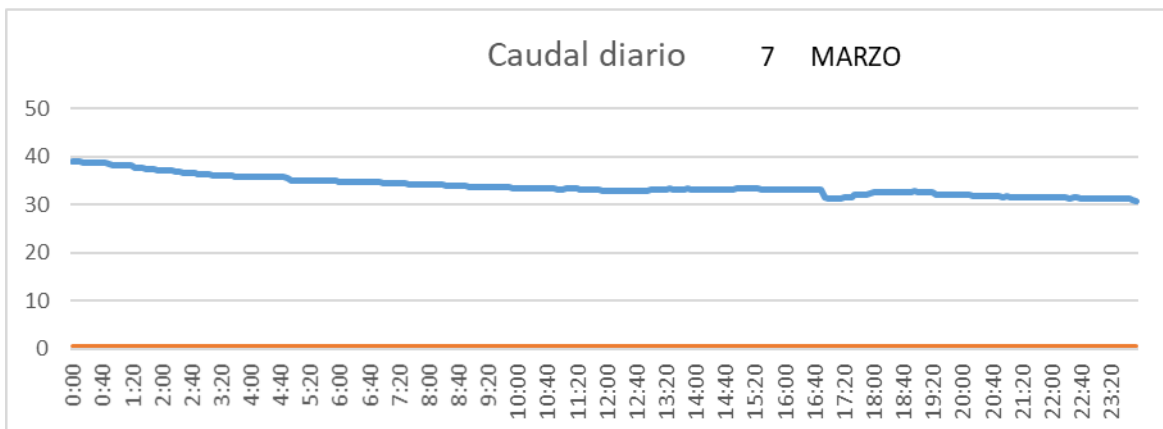
SAN LORENZO PARRILLA



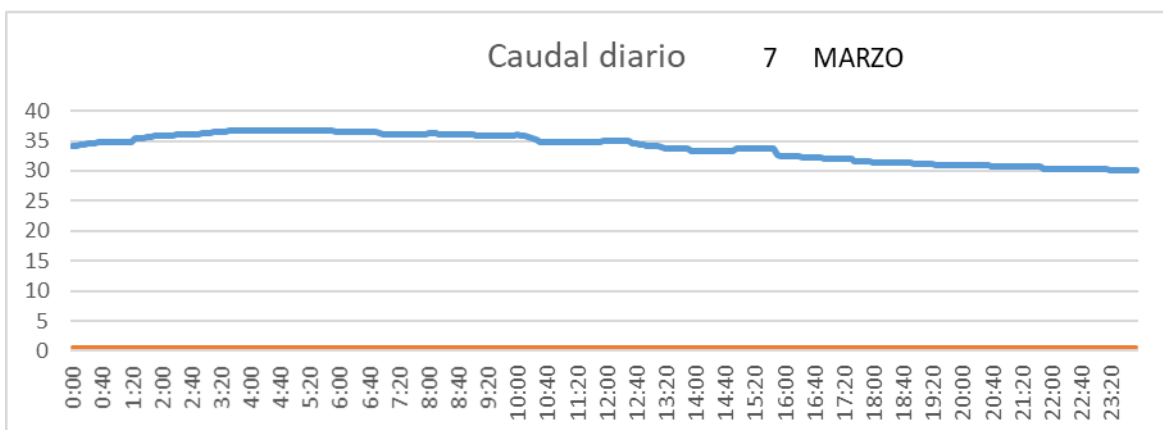
SALIDA TOBA



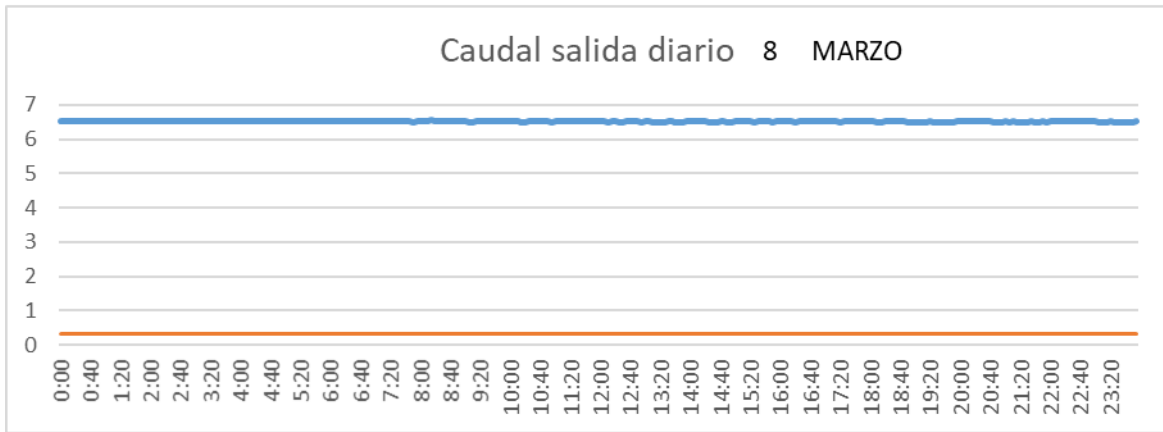
CUENCA



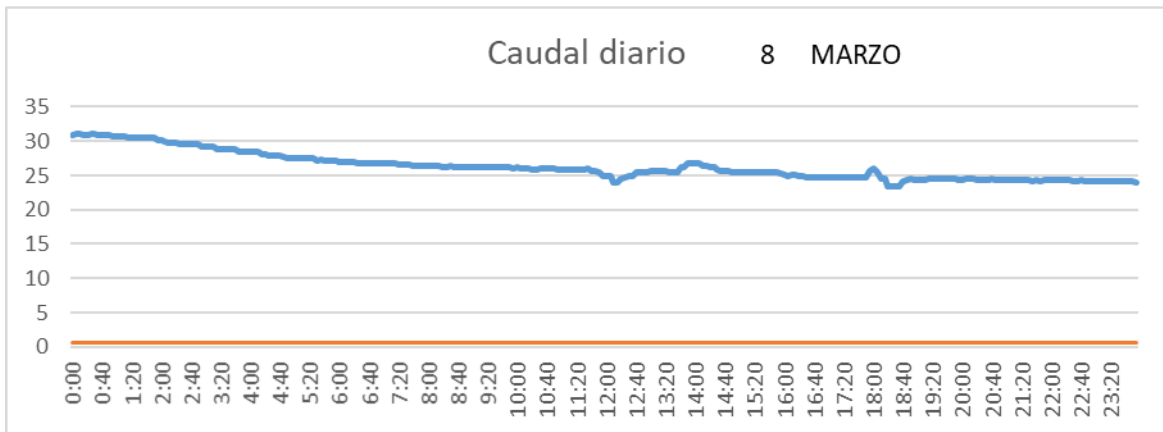
SAN LORENZO PARRILLA



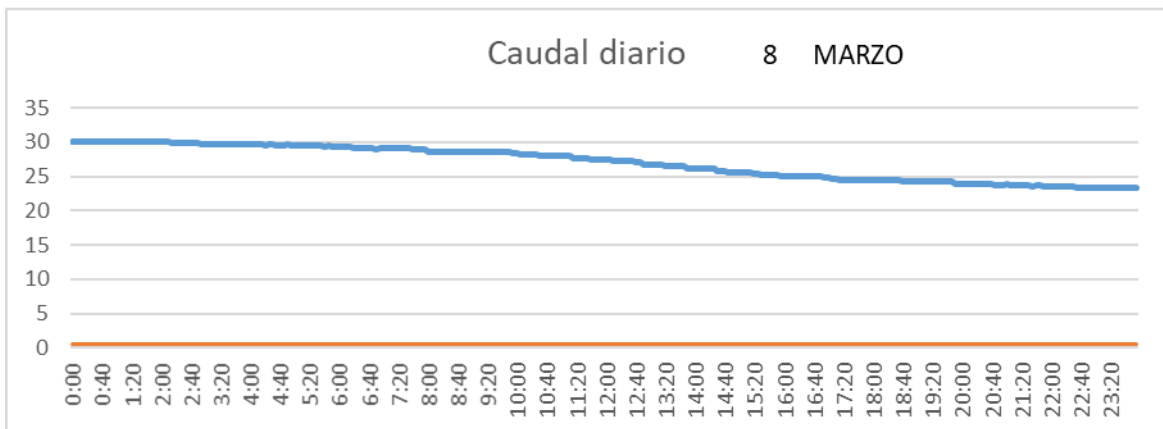
SALIDA TOBA



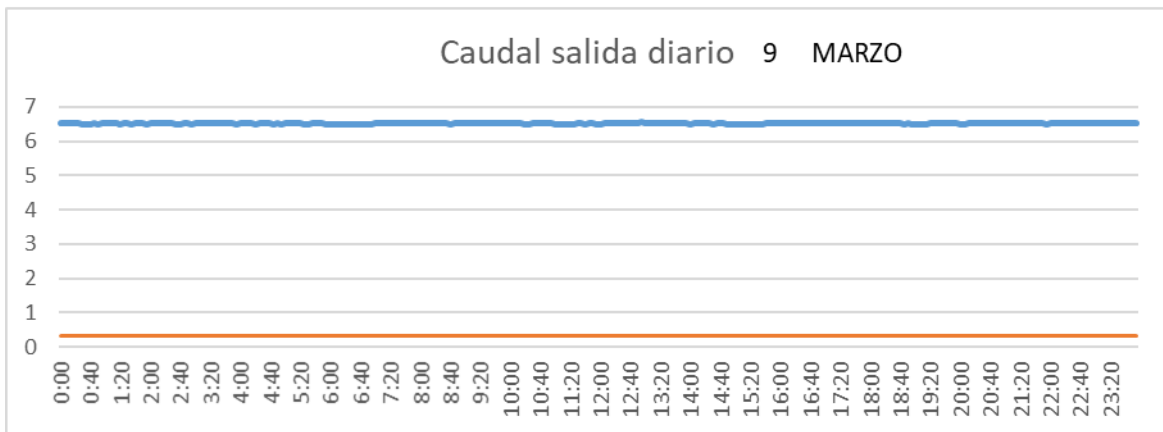
CUENCA



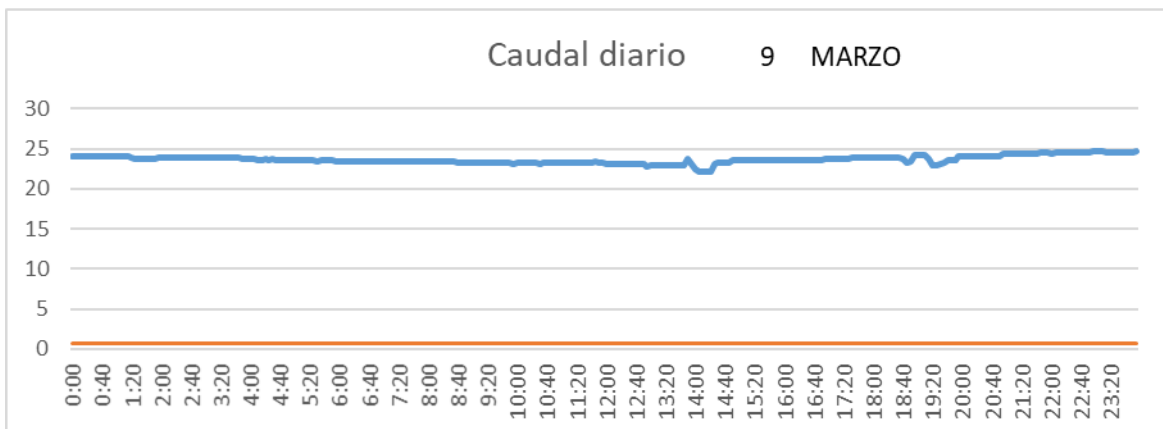
SAN LORENZO PARRILLA



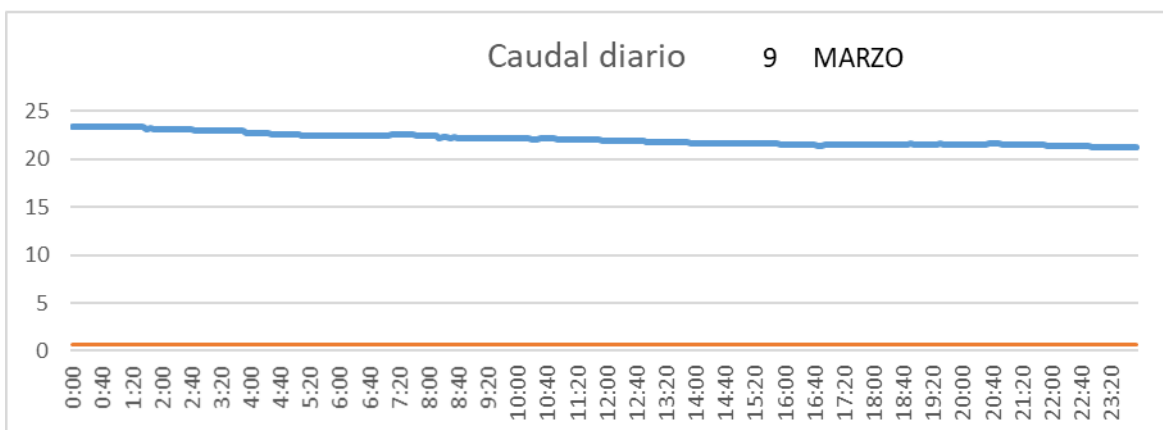
SALIDA TOBA



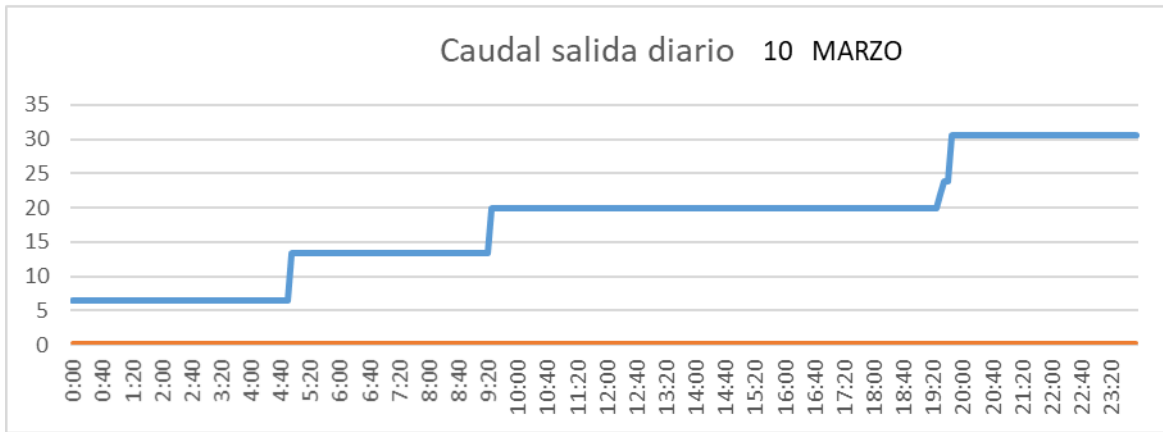
CUENCA



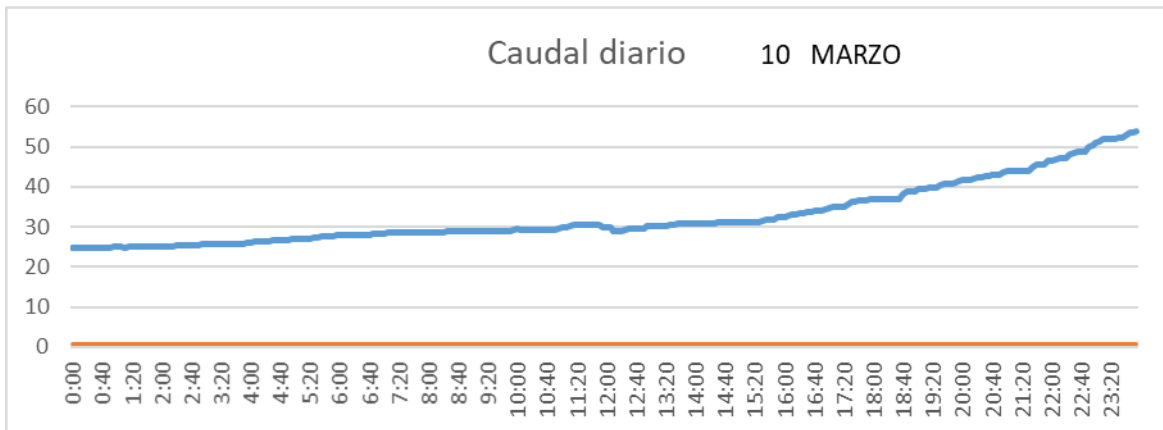
SAN LORENZO PARRILLA



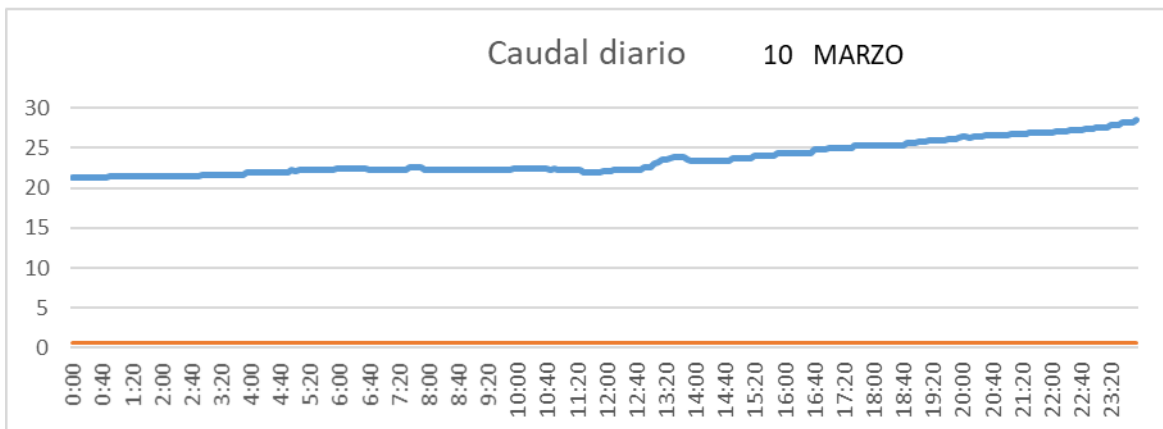
SALIDA TOBA



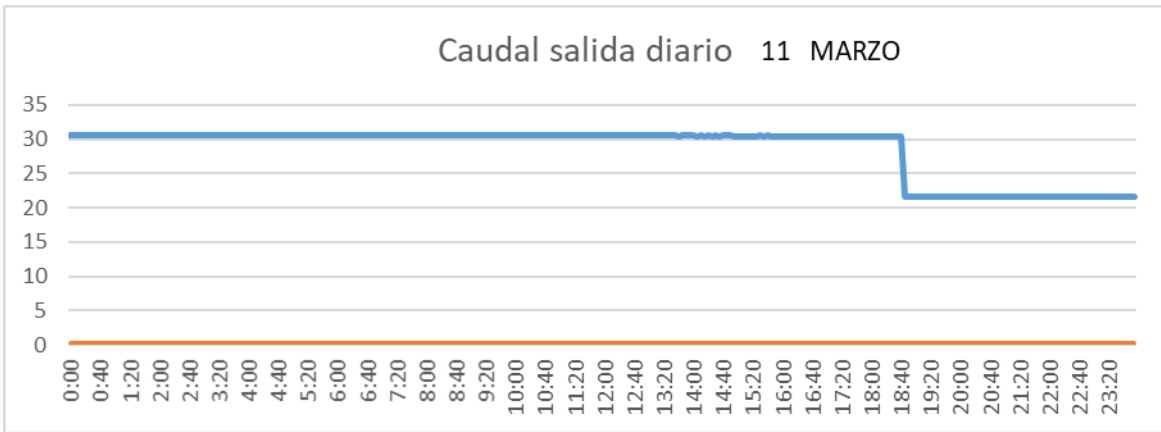
CUENCA



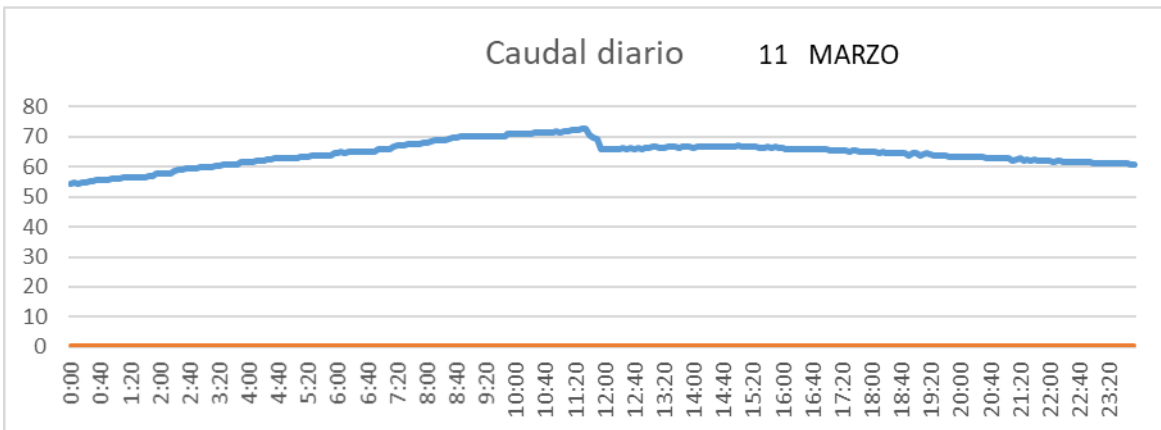
SAN LORENZO PARRILLA



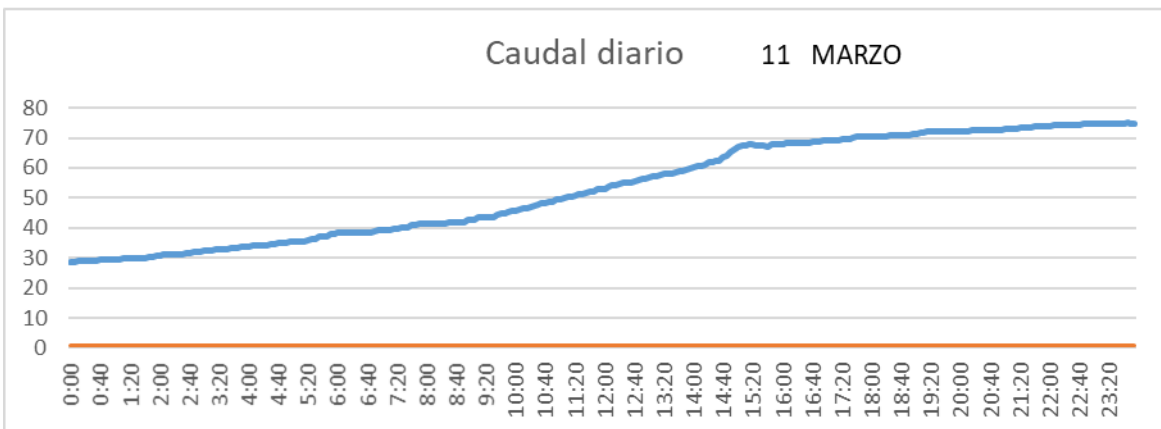
SALIDA TOBA



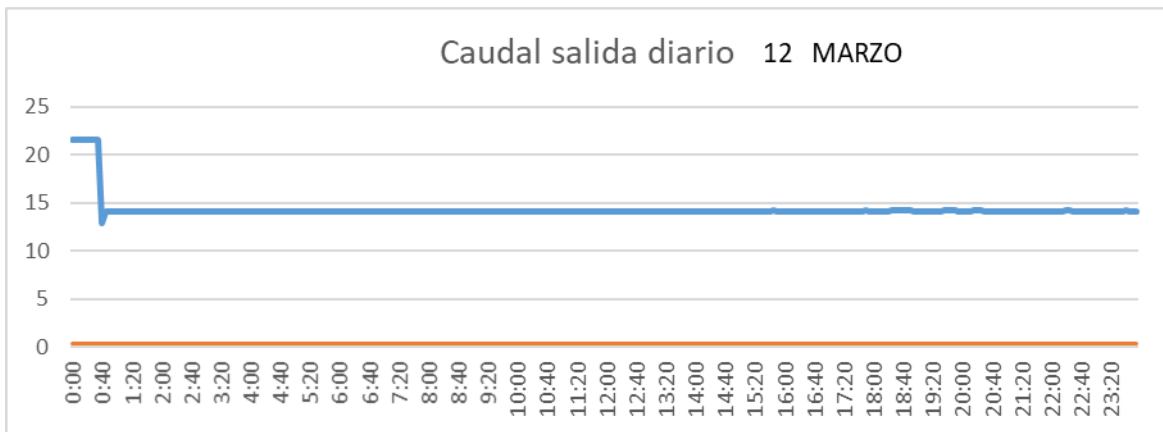
CUENCA



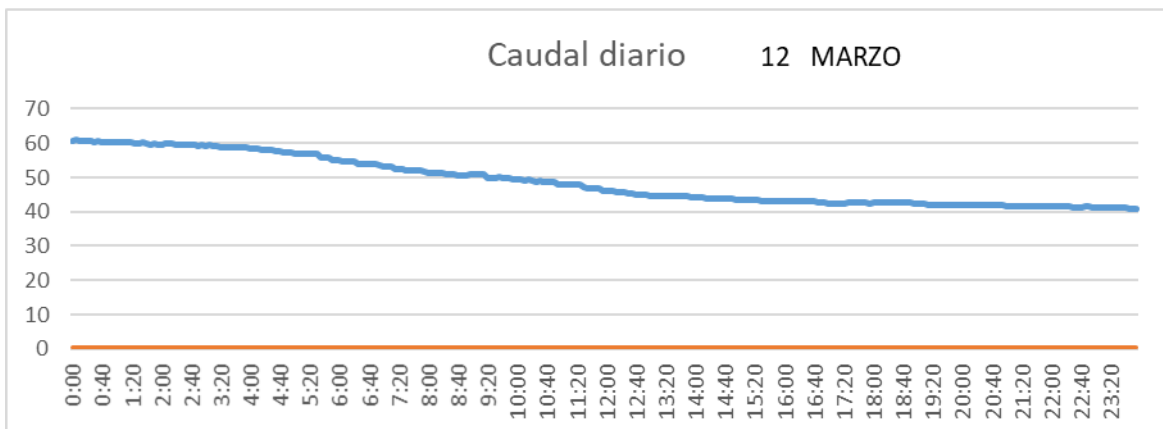
SAN LORENZO PARRILLA



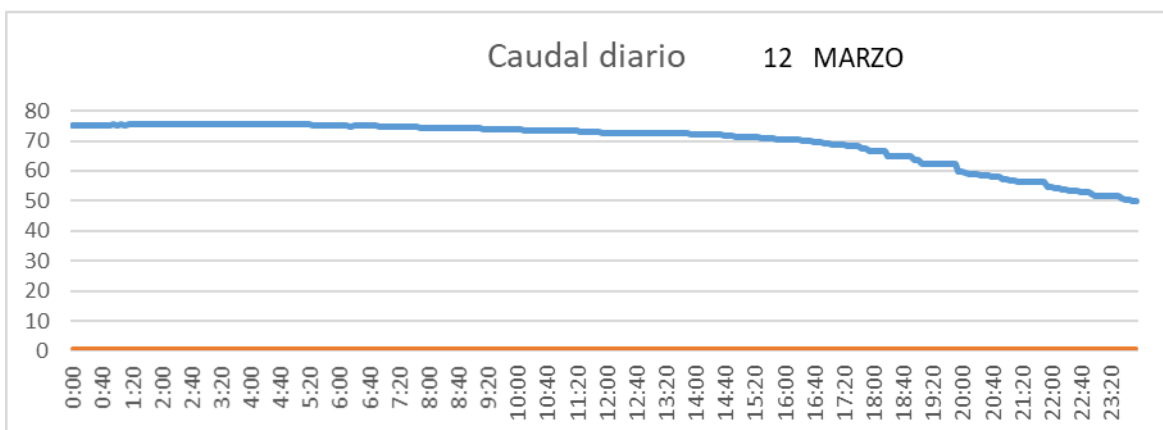
SALIDA TOBA



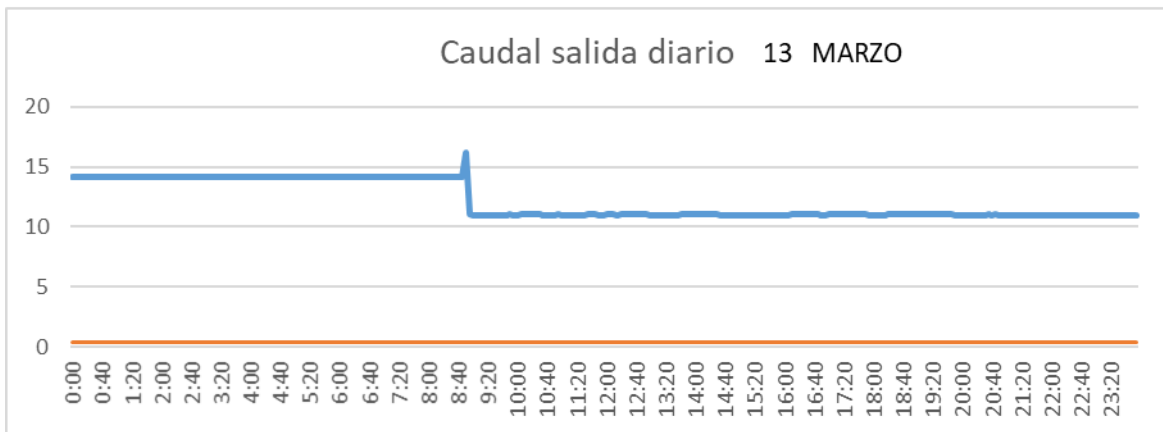
CUENCA



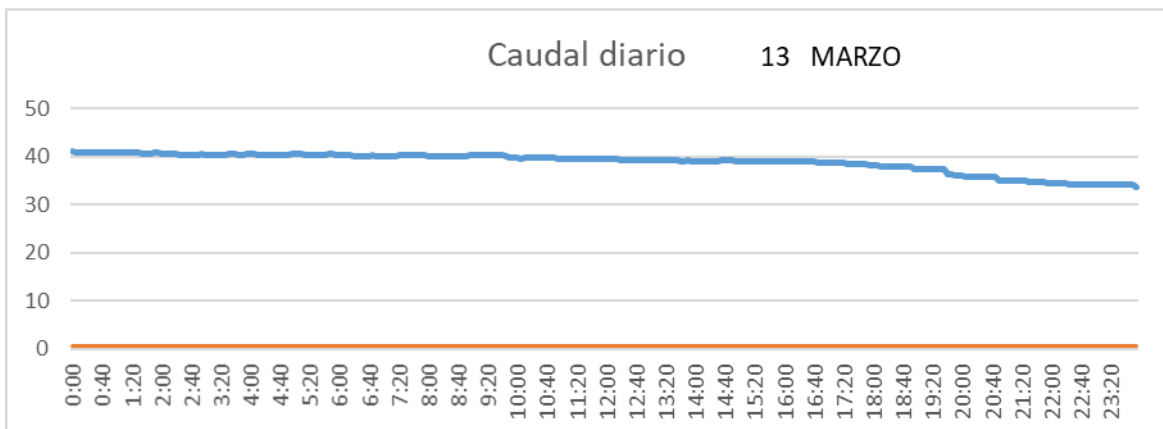
SAN LORENZO PARRILLA



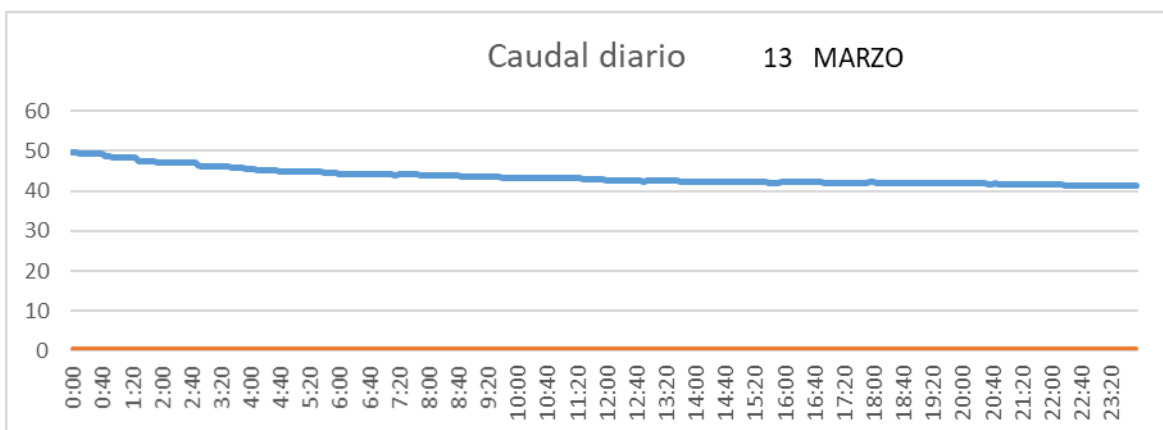
SALIDA TOBA



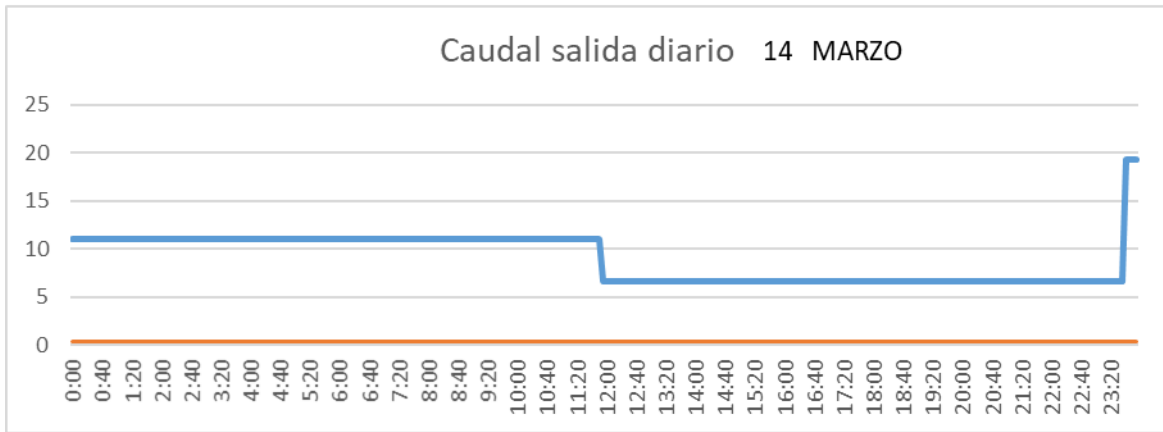
CUENCA



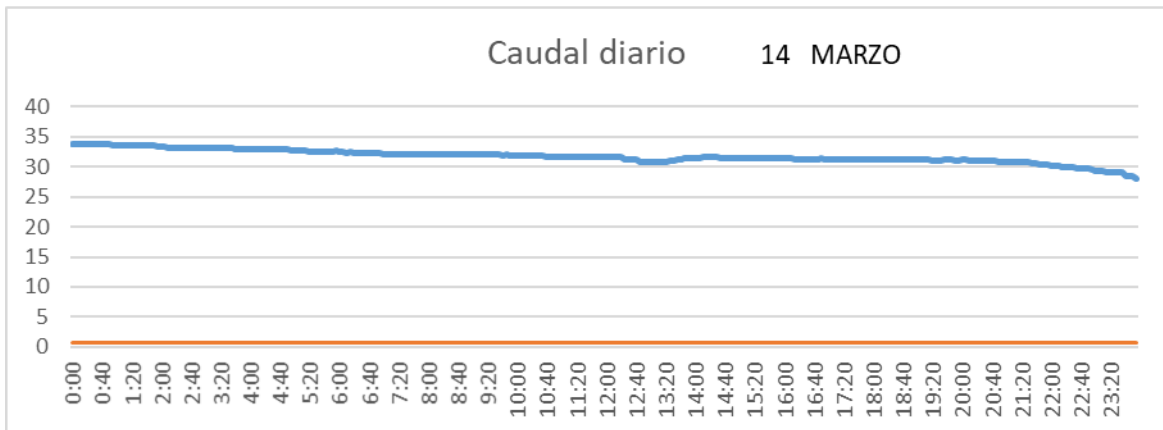
SAN LORENZO PARRILLA



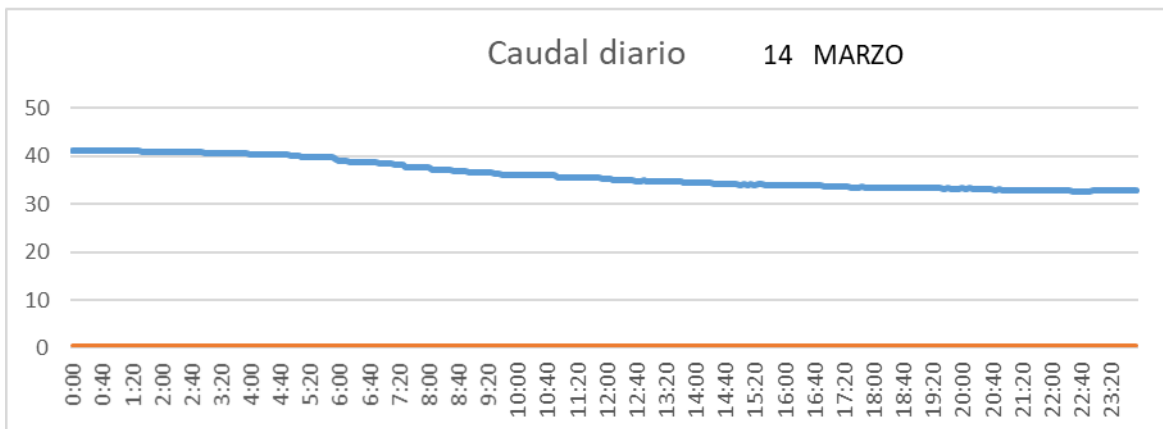
SALIDA TOBA



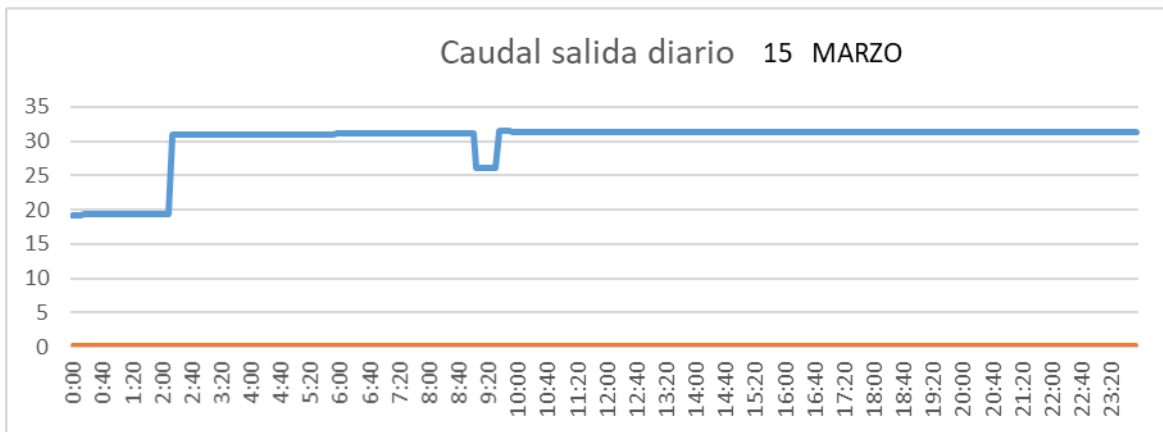
CUENCA



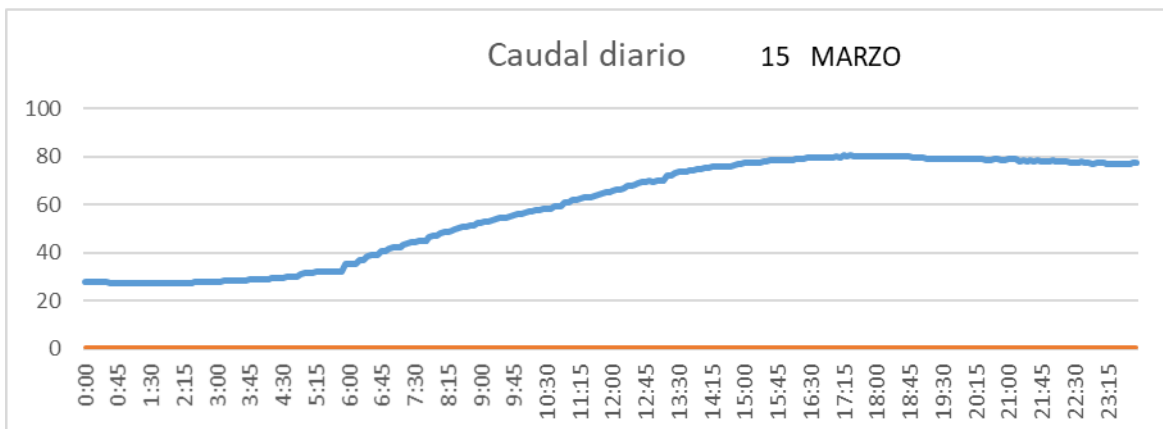
SAN LORENZO PARRILLA



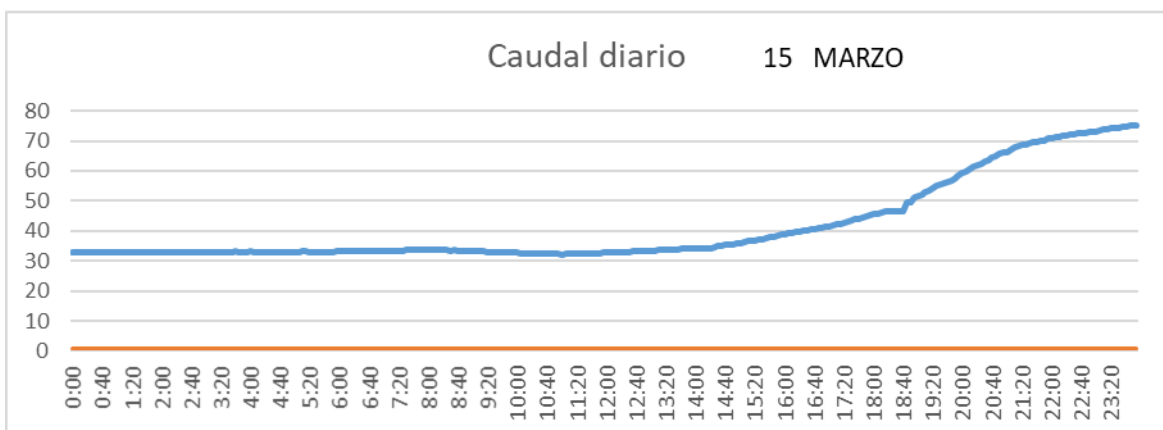
SALIDA TOBA



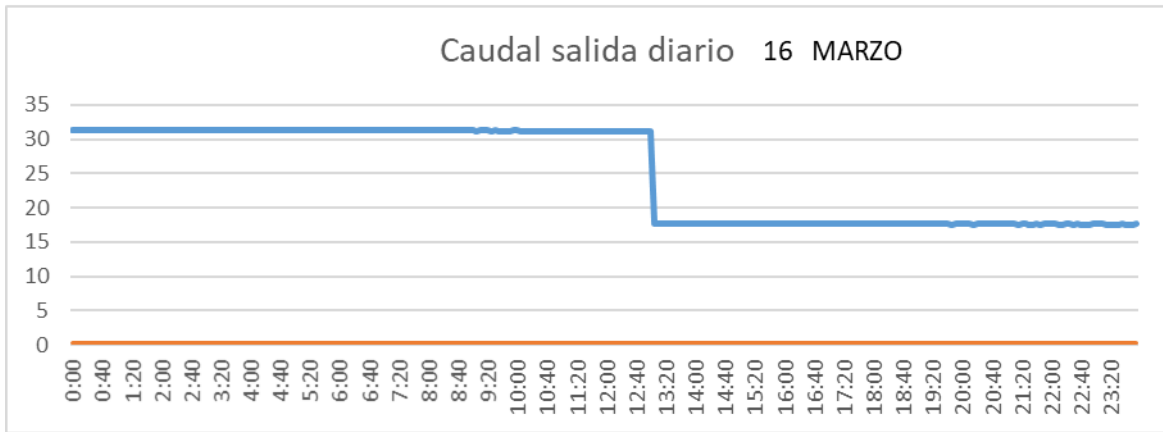
CUENCA



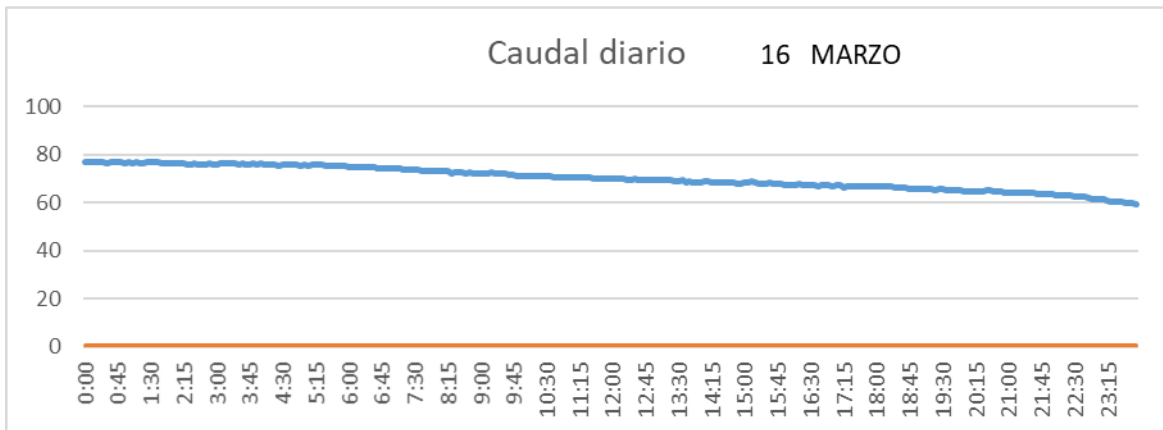
SAN LORENZO PARRILLA



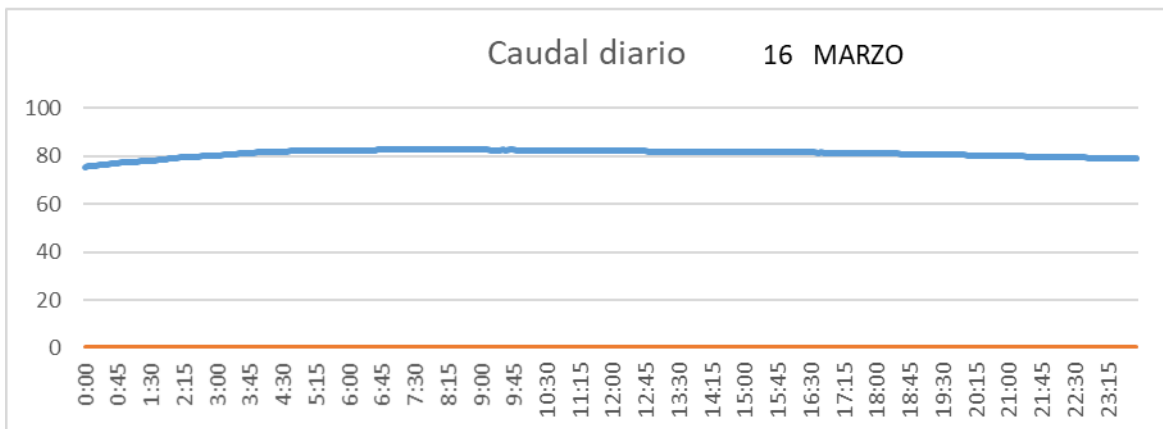
SALIDA TOBA



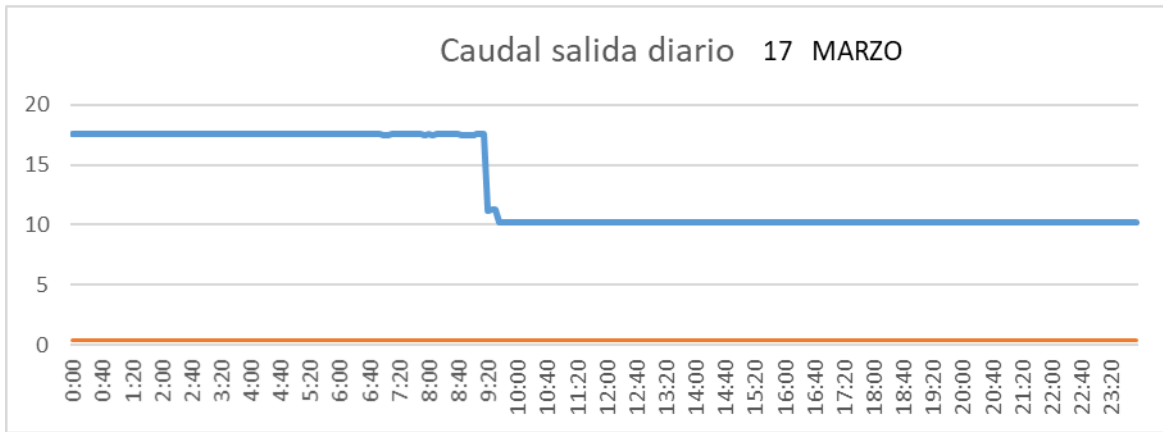
CUENCA



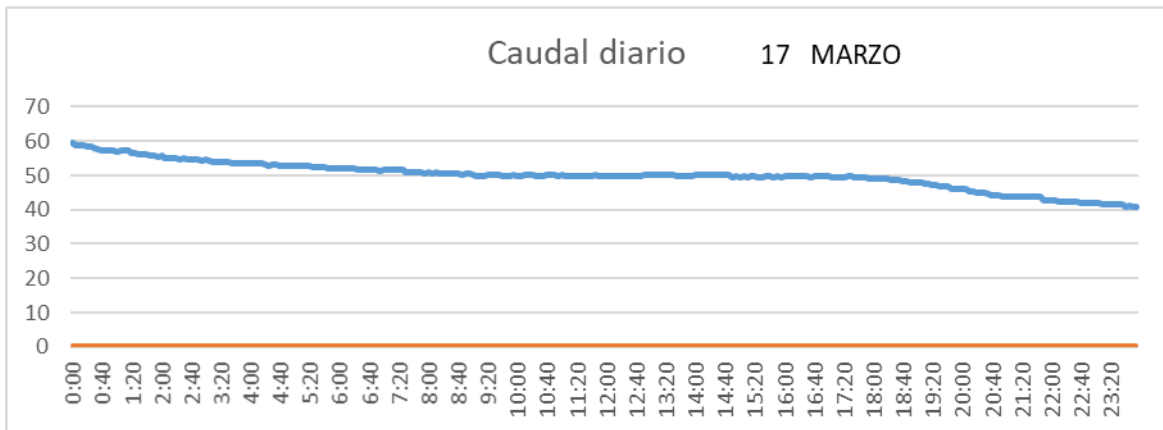
SAN LORENZO PARRILLA



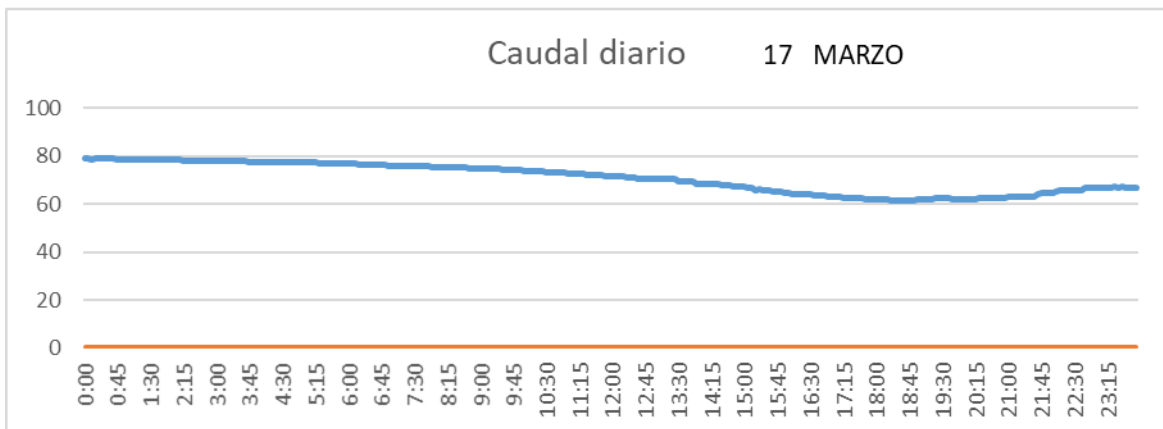
SALIDA TOBA



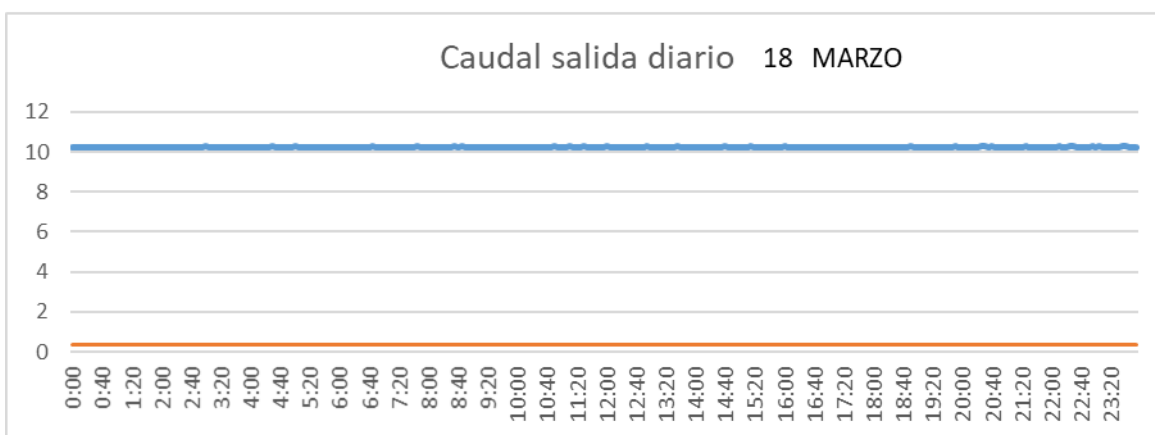
CUENCA



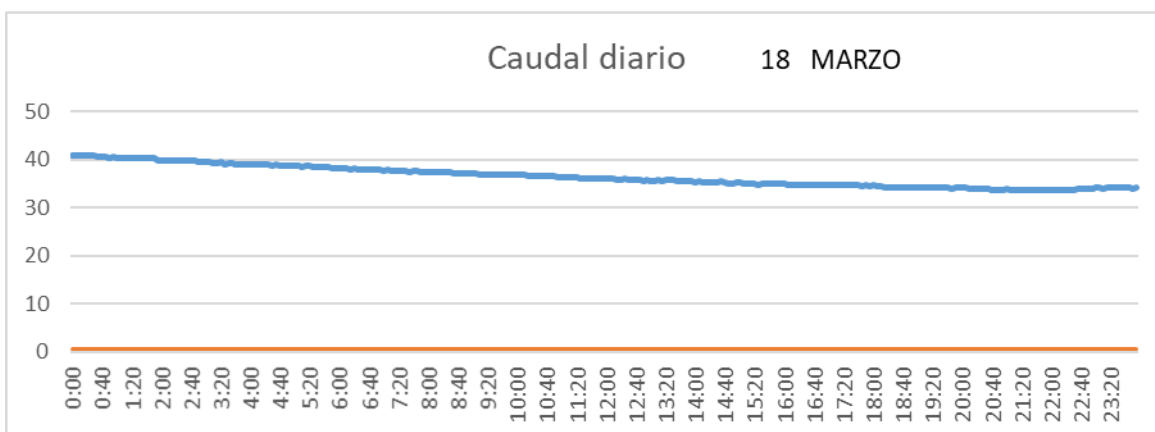
SAN LORENZO PARRILLA



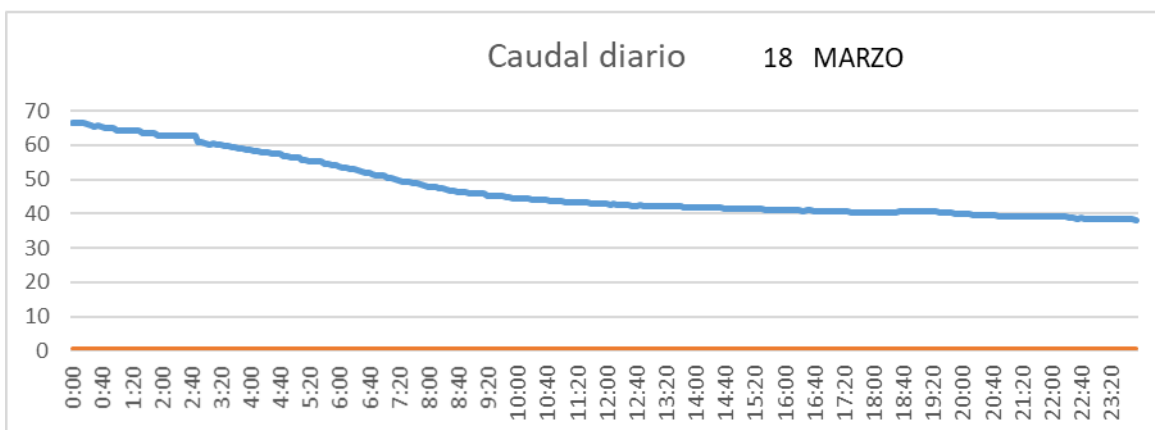
SALIDA TOBA



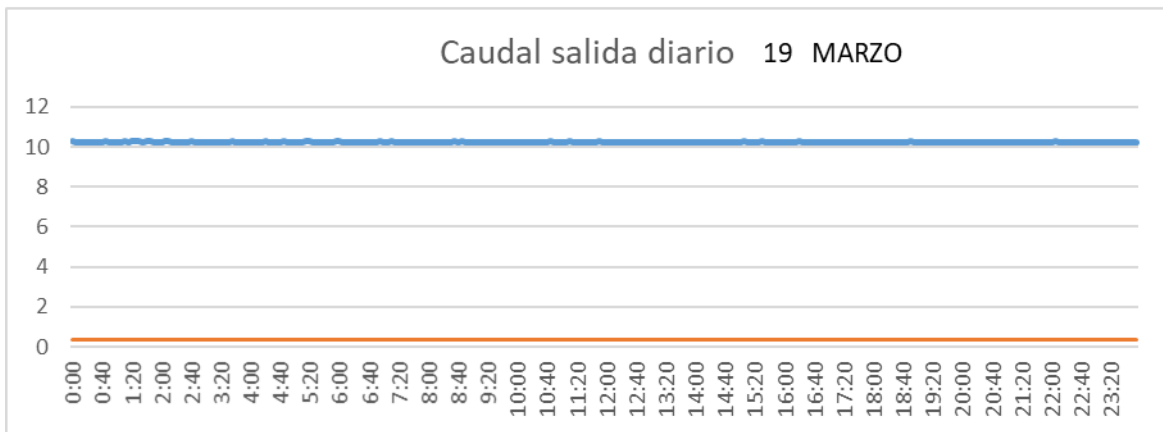
CUENCA



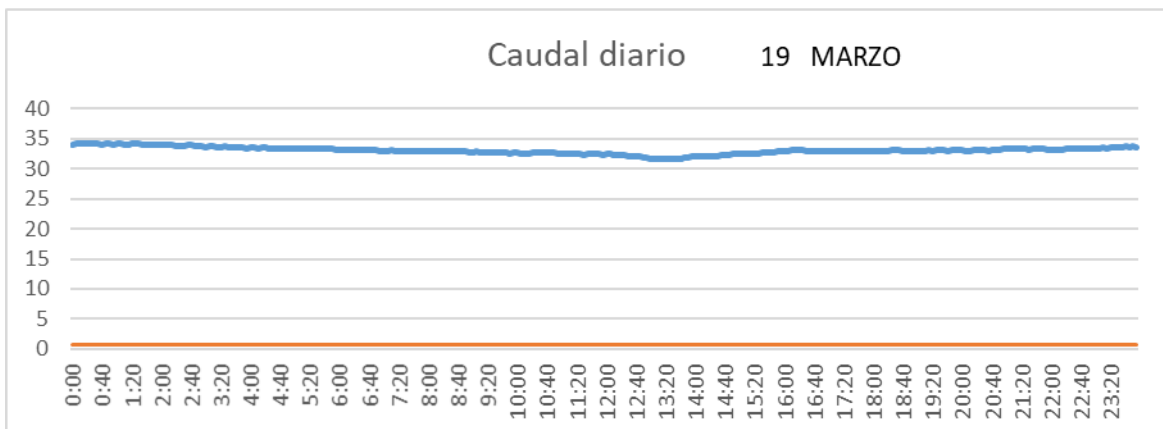
SAN LORENZO PARRILLA



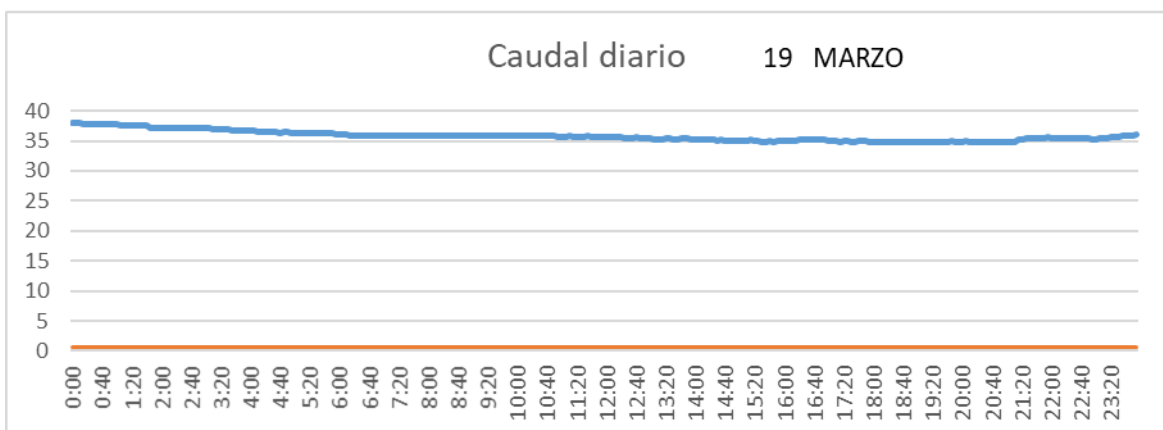
SALIDA TOBA



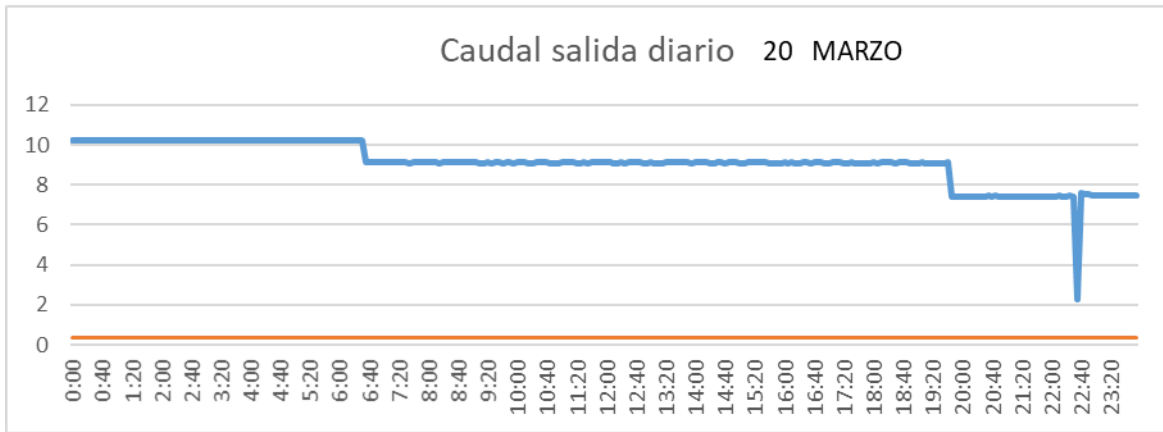
CUENCA



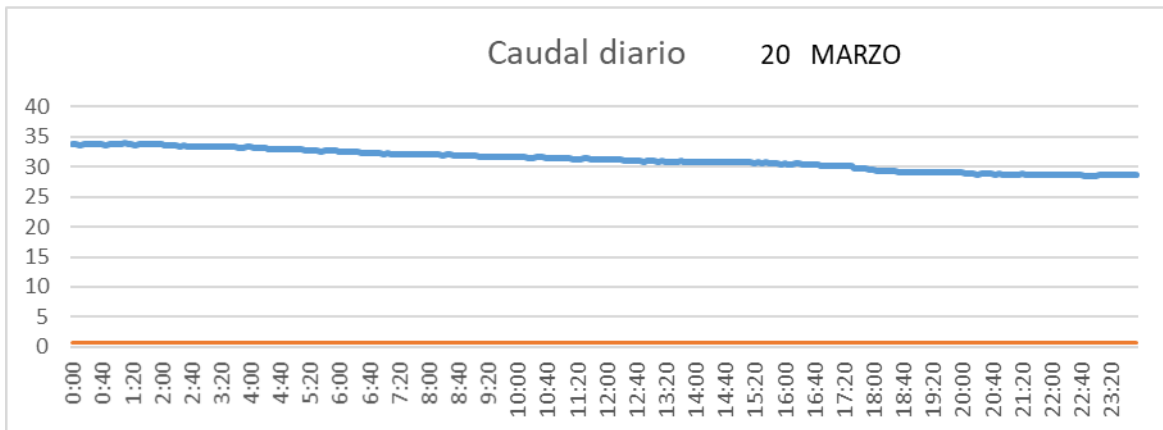
SAN LORENZO PARRILLA



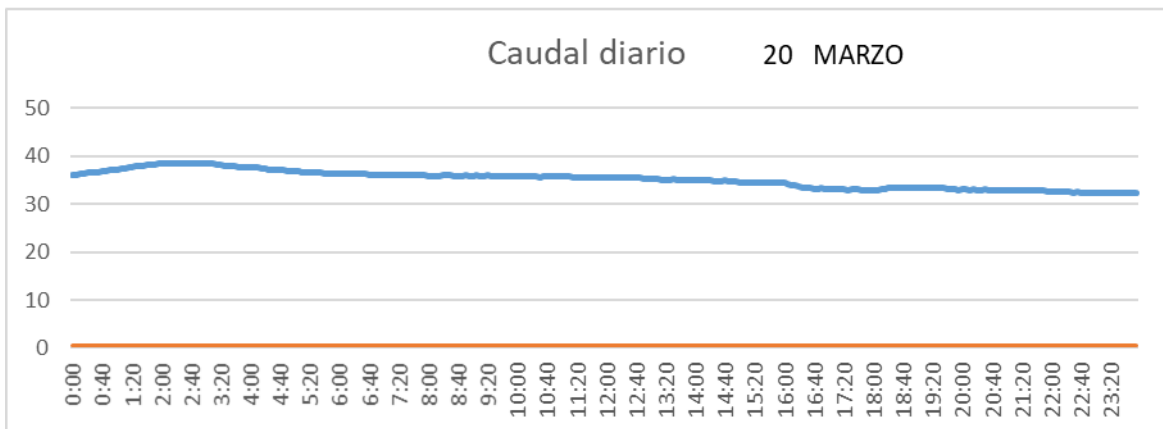
SALIDA TOBA



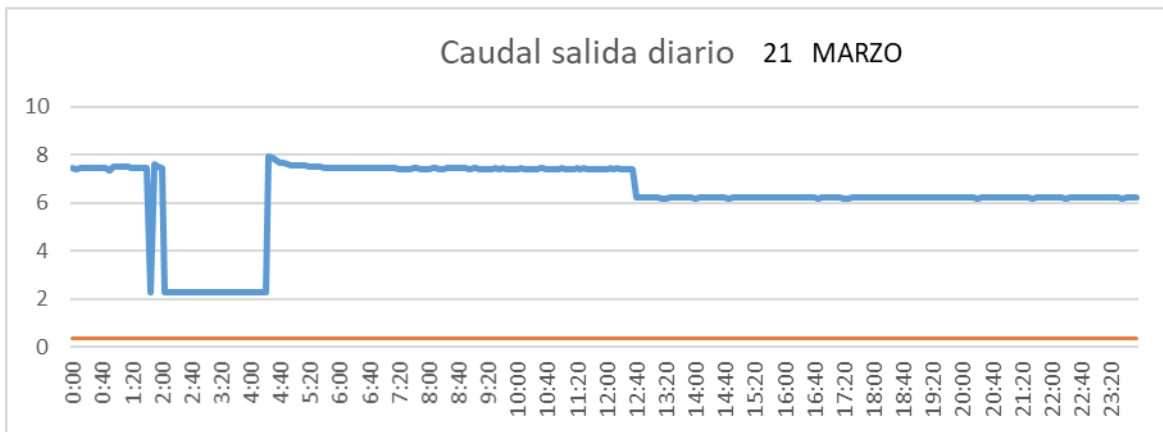
CUENCA



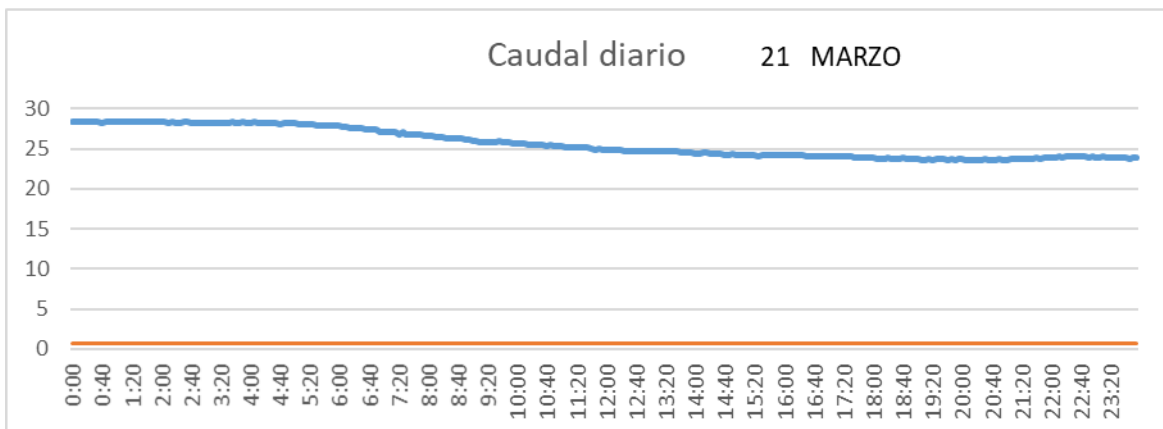
SAN LORENZO PARRILLA



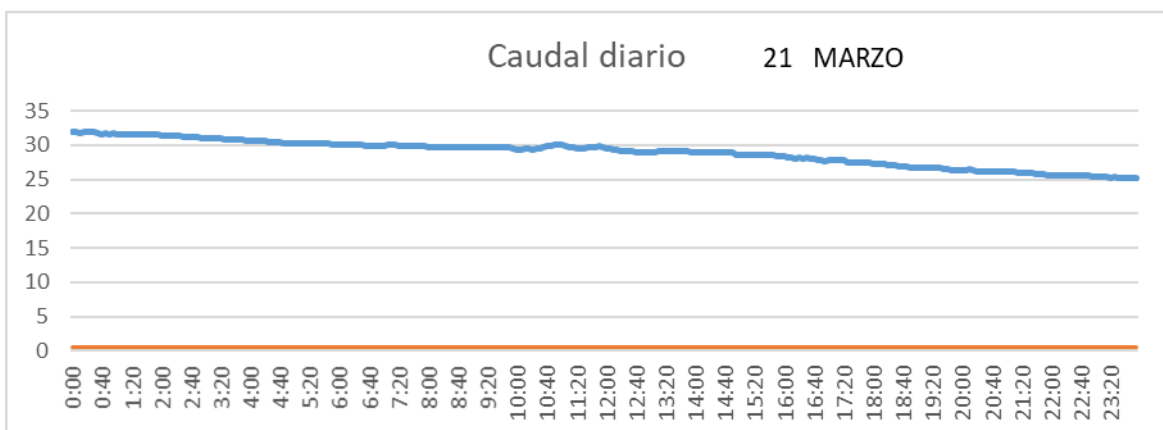
SALIDA TOBA



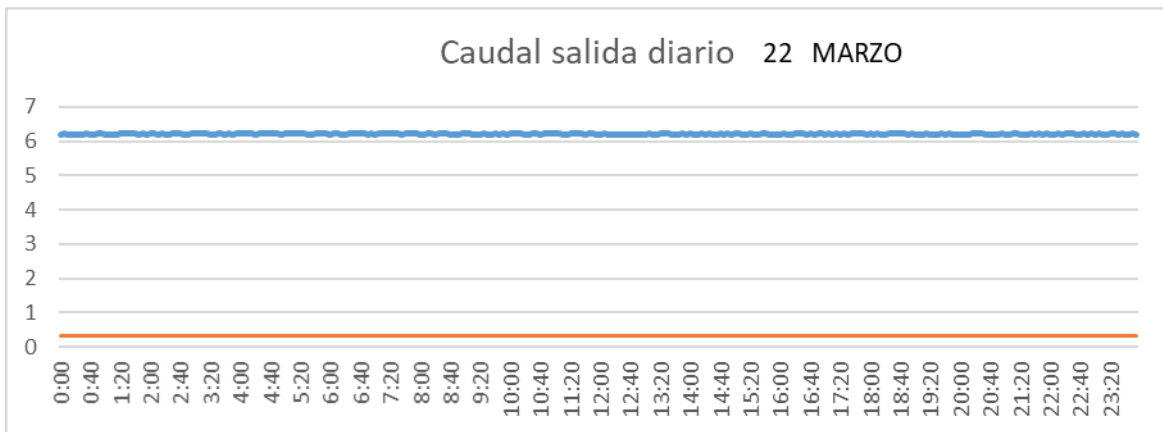
CUENCA



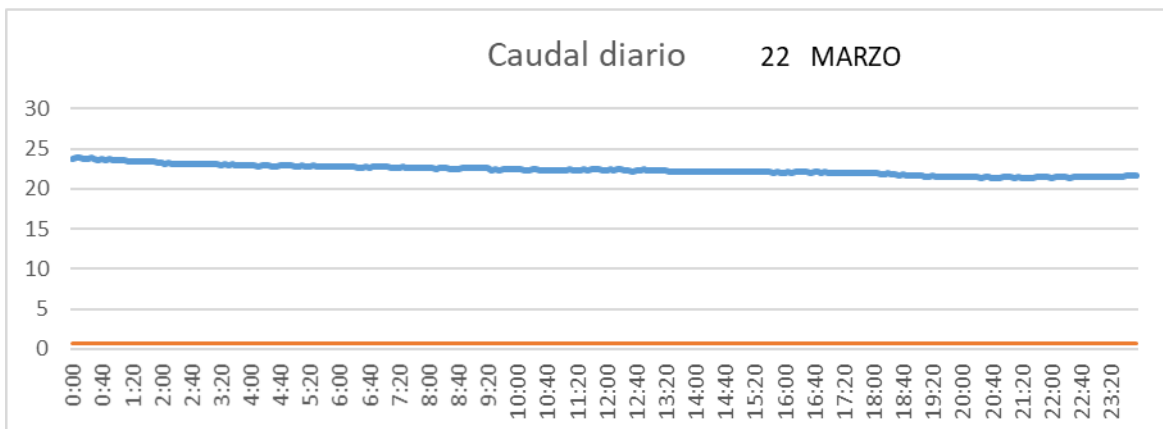
SAN LORENZO PARRILLA



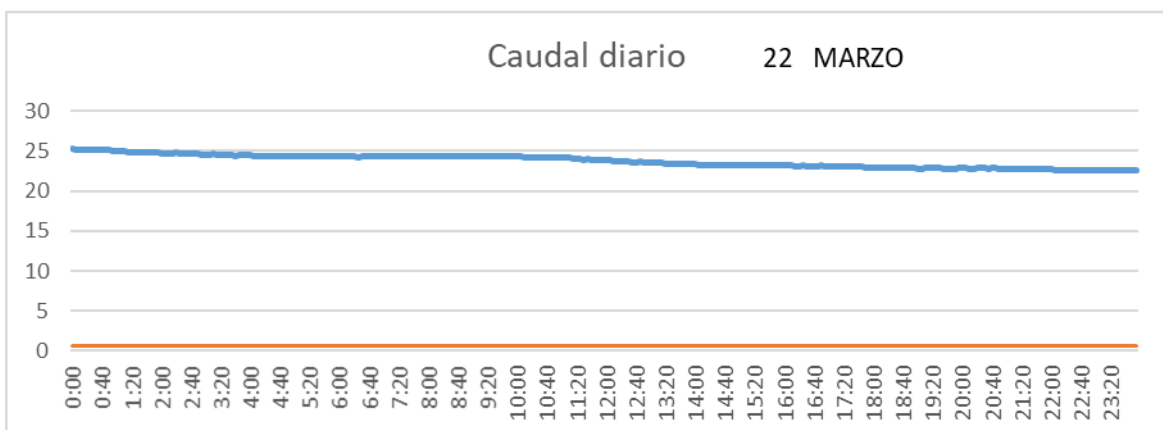
SALIDA TOBA



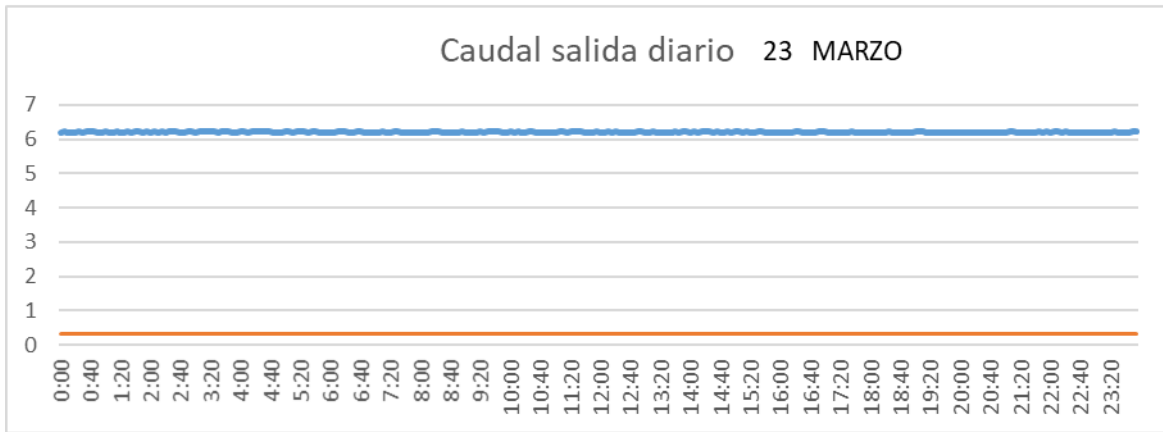
CUENCA



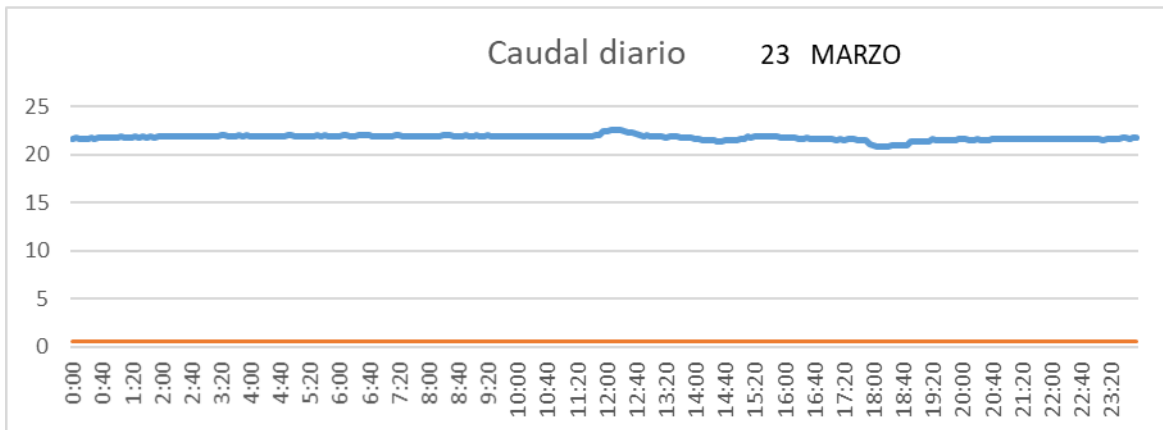
SAN LORENZO PARRILLA



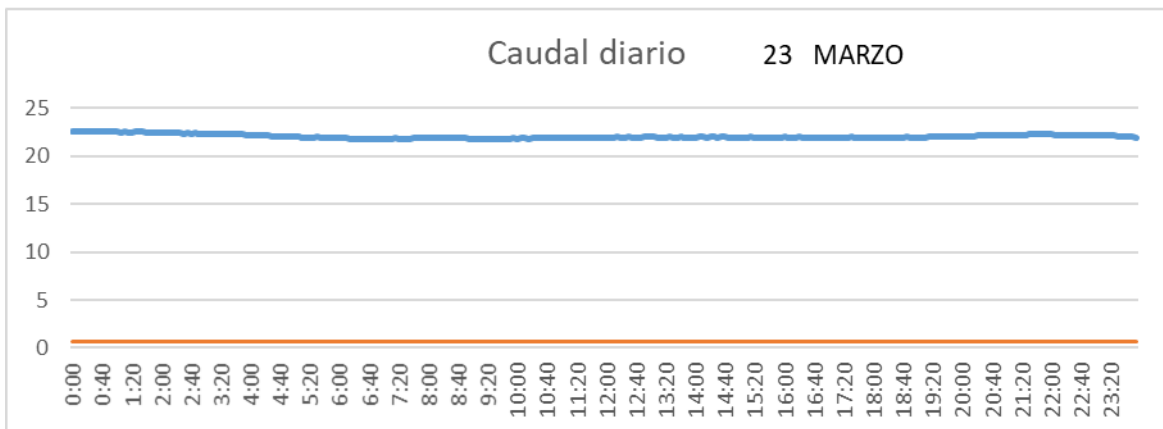
SALIDA TOBA



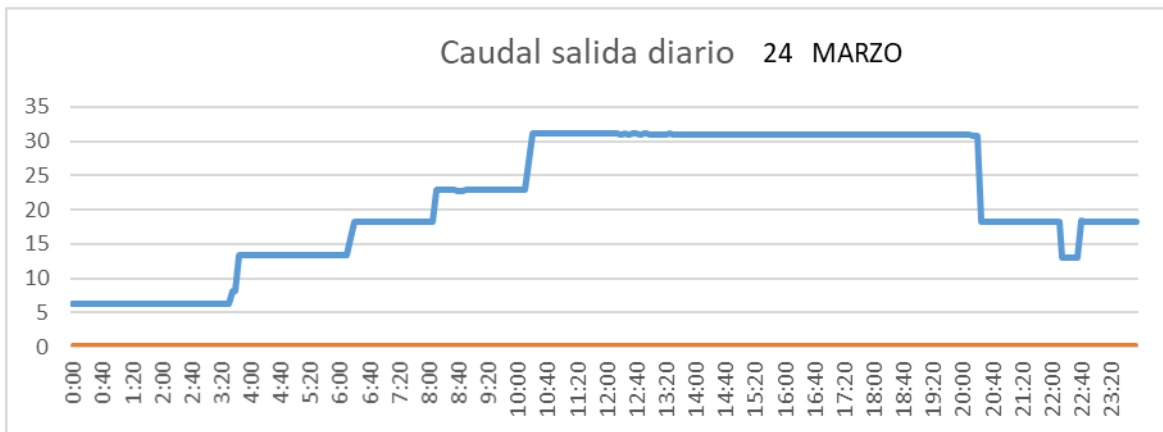
CUENCA



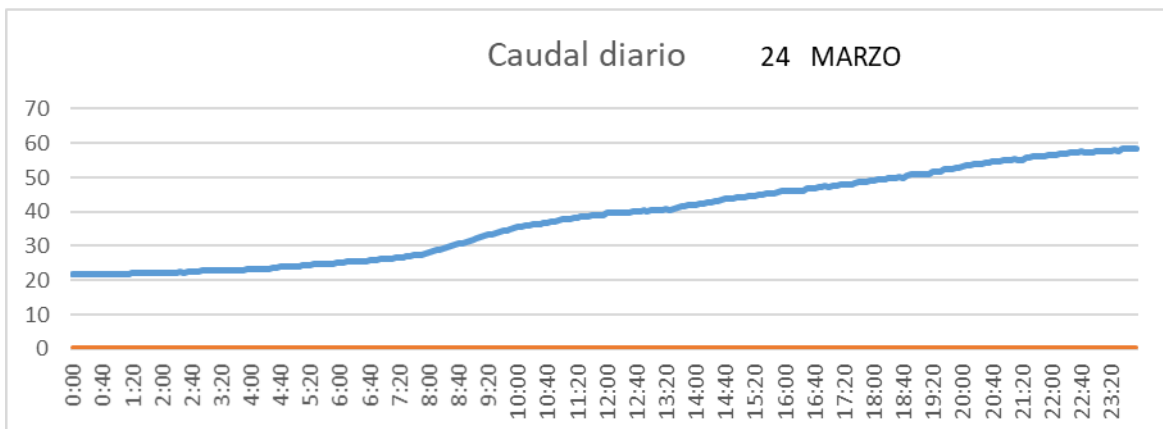
SAN LORENZO PARRILLA



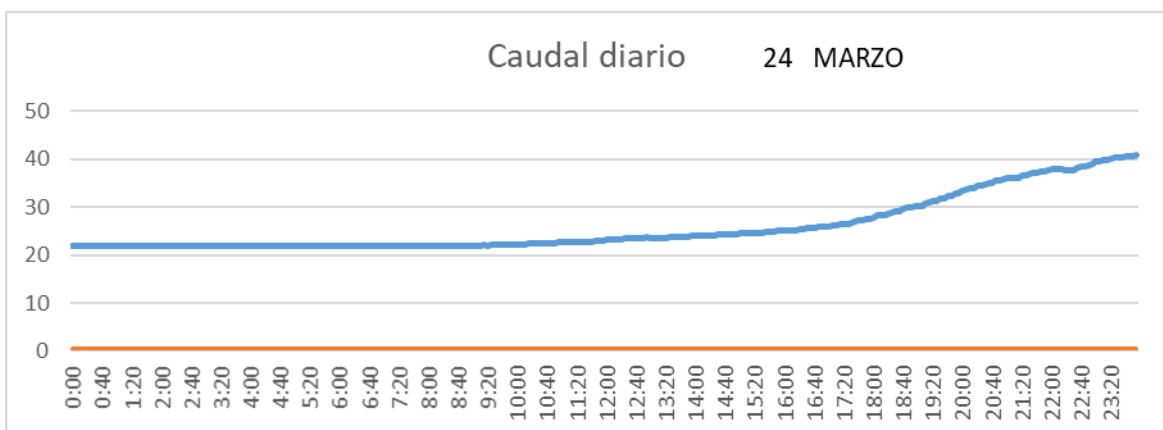
SALIDA TOBA



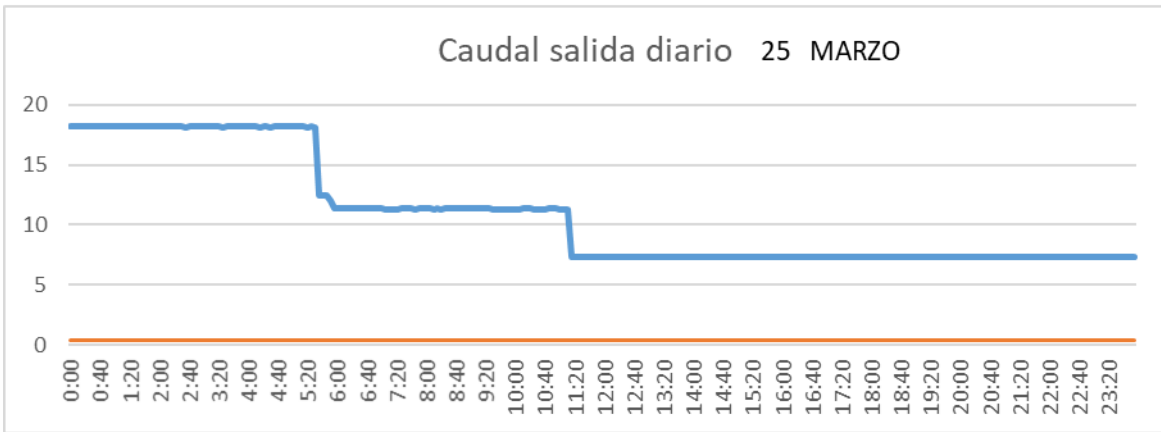
CUENCA



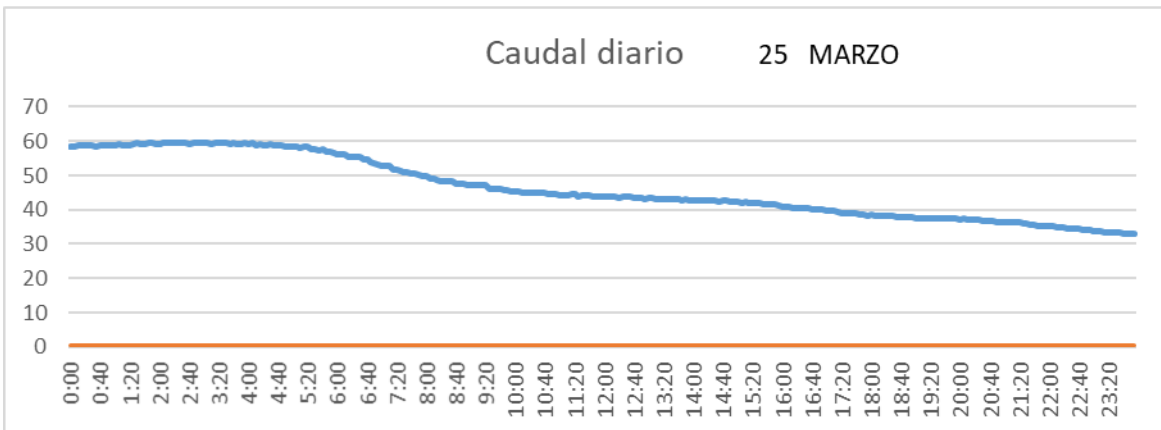
SAN LORENZO PARRILLA



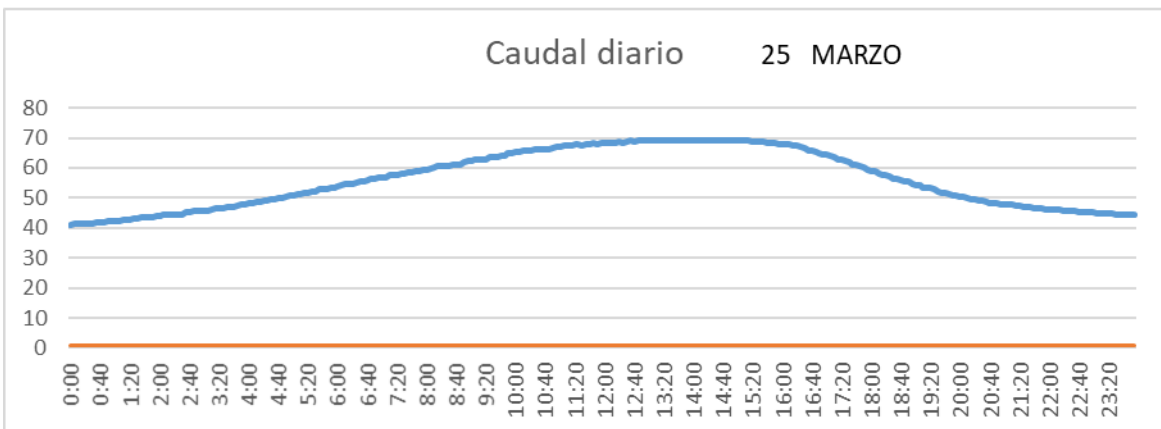
SALIDA TOBA



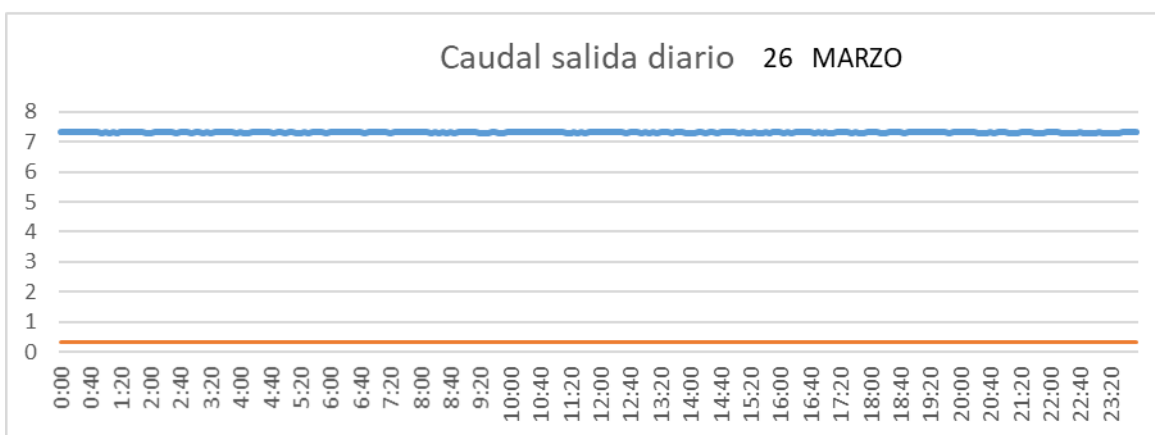
CUENCA



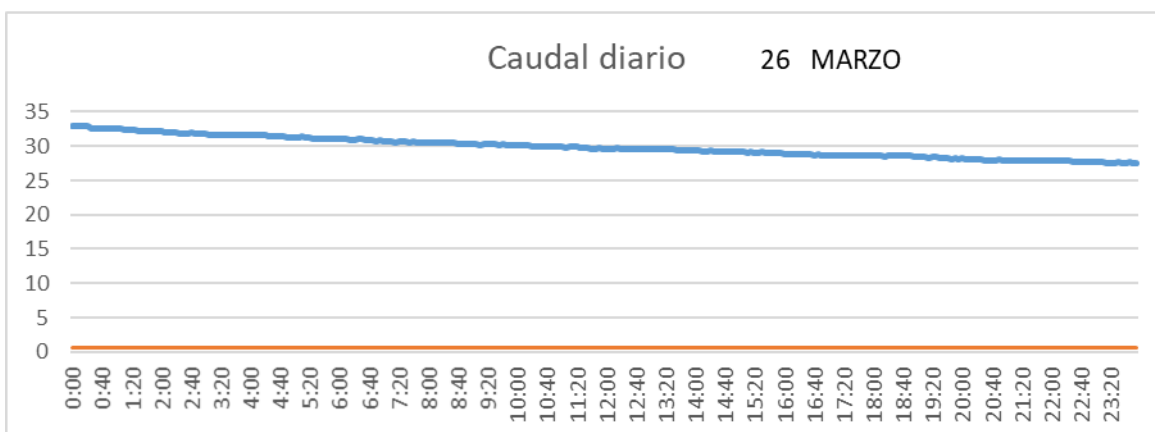
SAN LORENZO PARRILLA



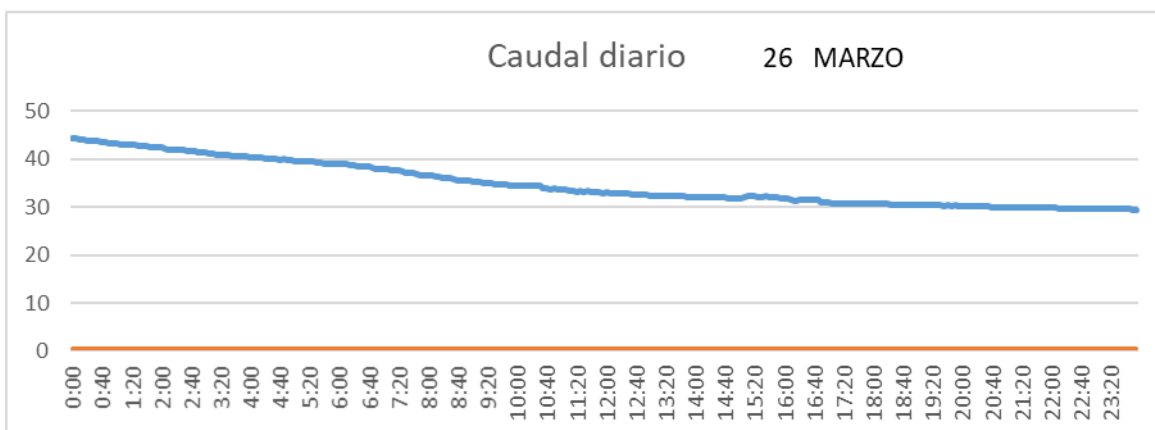
SALIDA TOBA



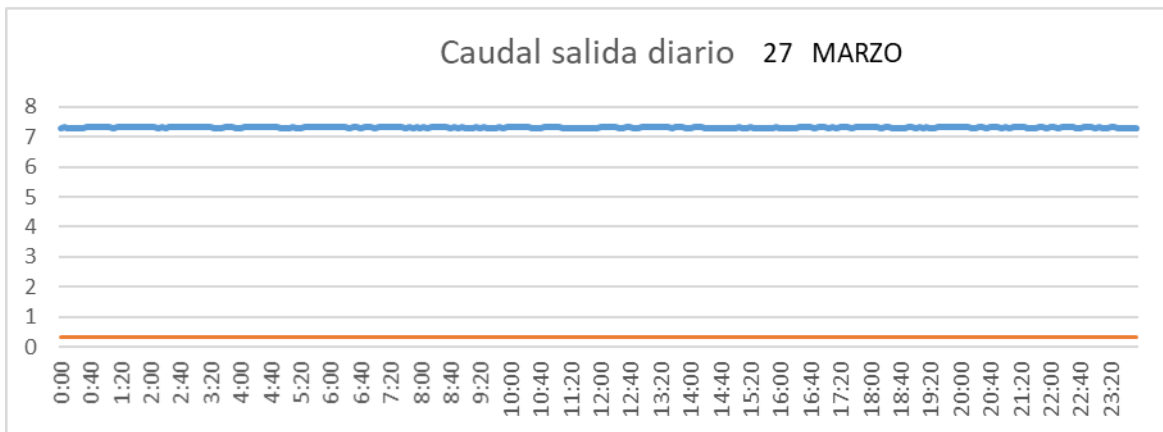
CUENCA



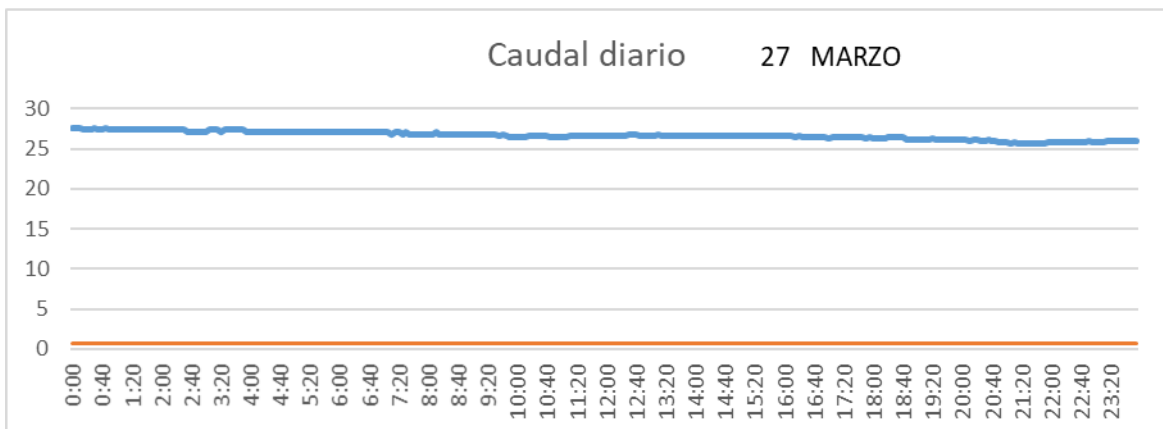
SAN LORENZO PARRILLA



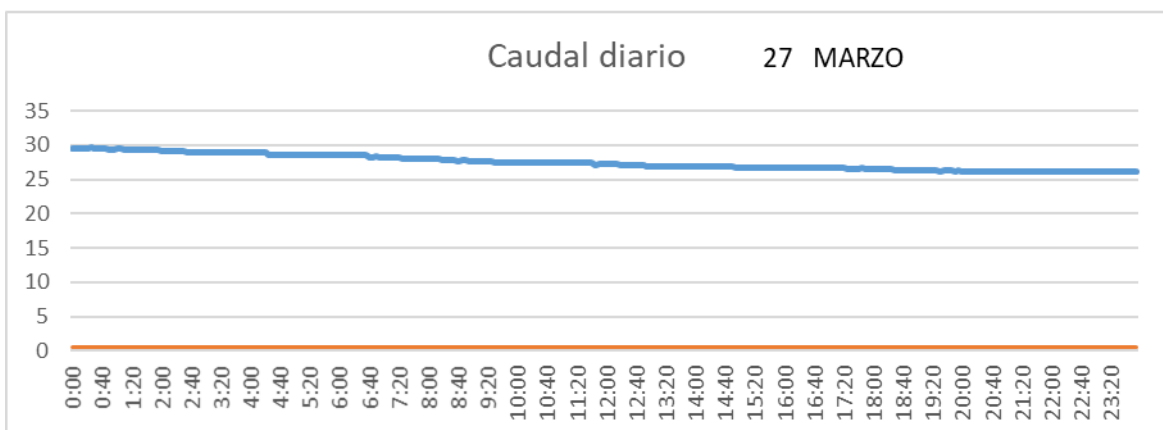
SALIDA TOBA



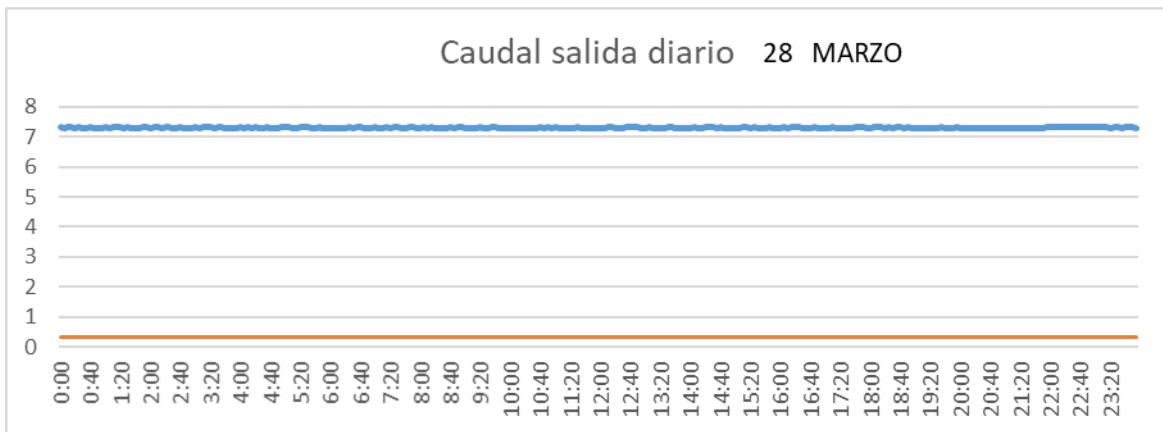
CUENCA



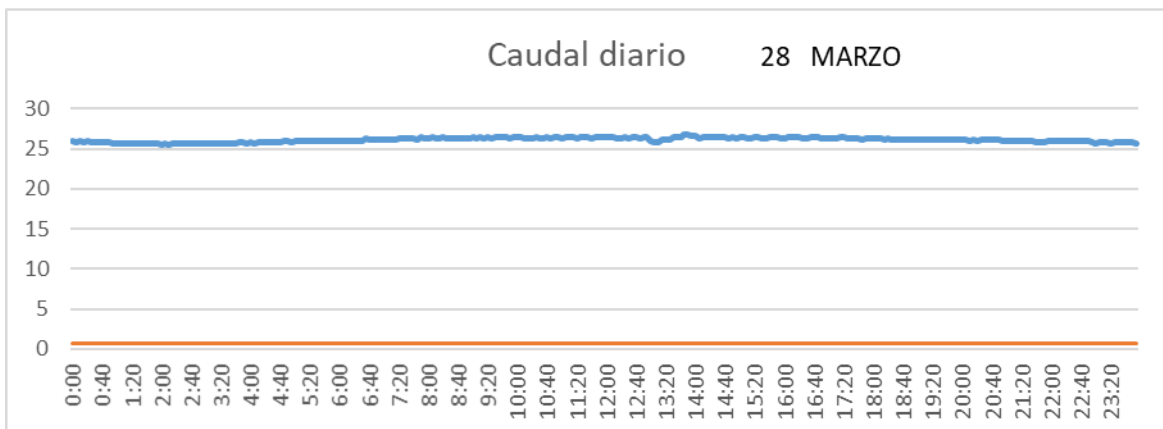
SAN LORENZO PARRILLA



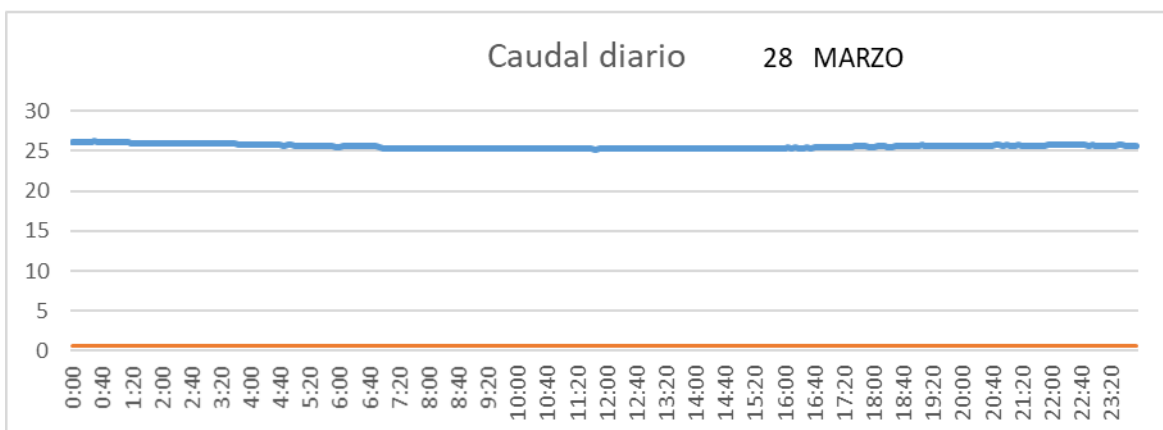
SALIDA TOBA



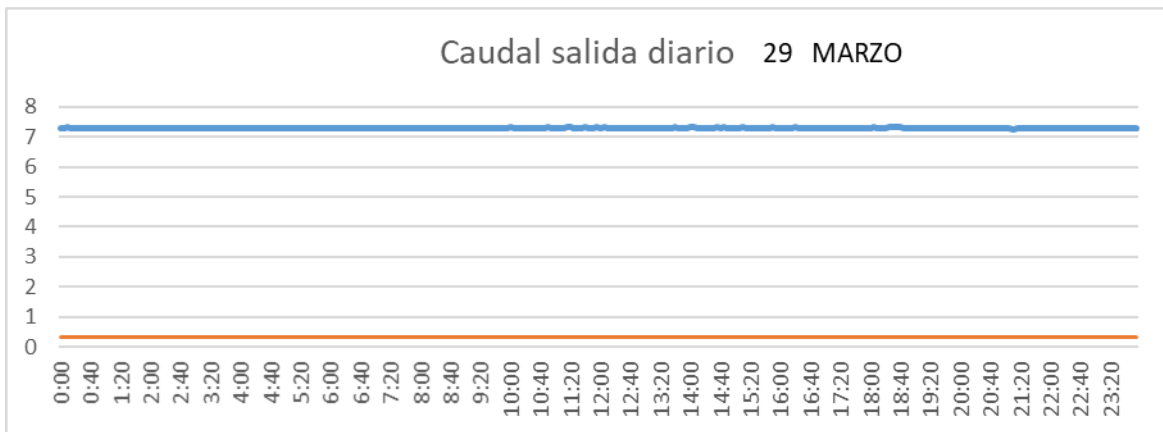
CUENCA



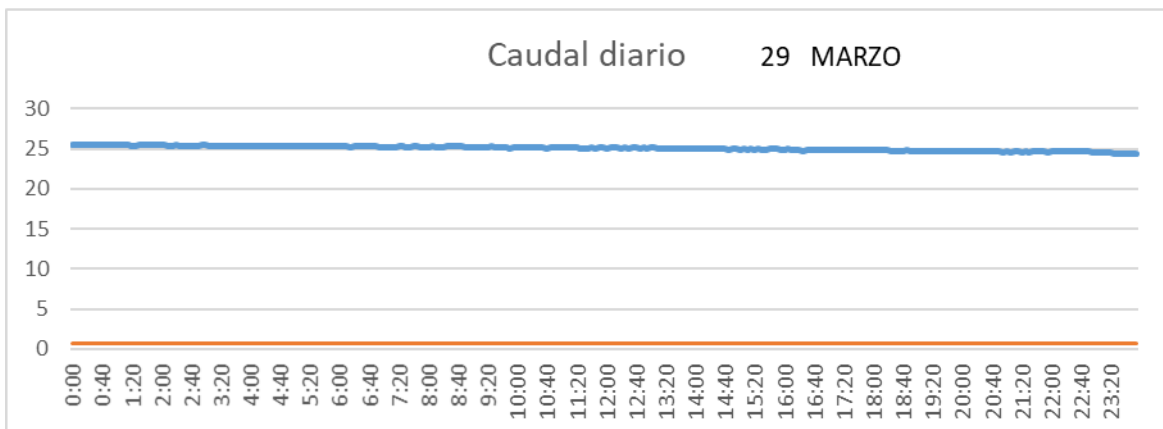
SAN LORENZO PARRILLA



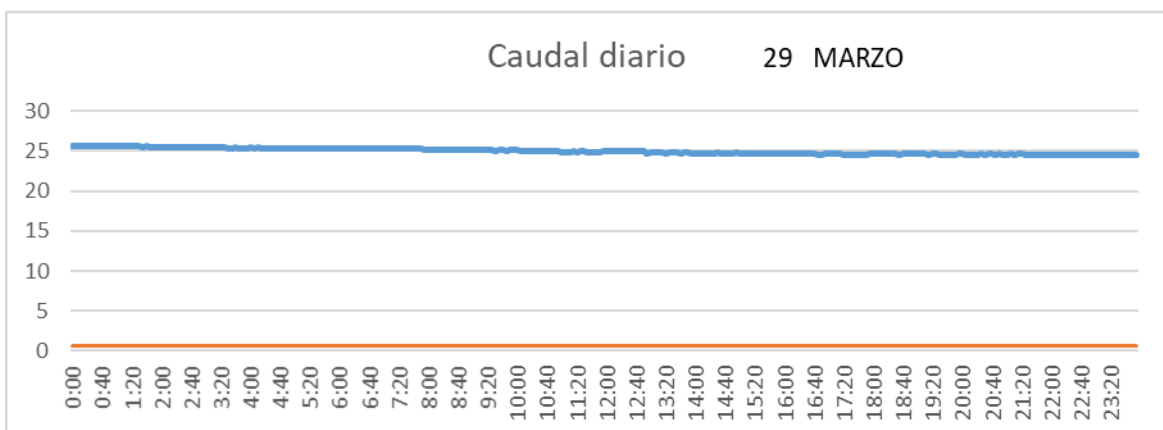
SALIDA TOBA



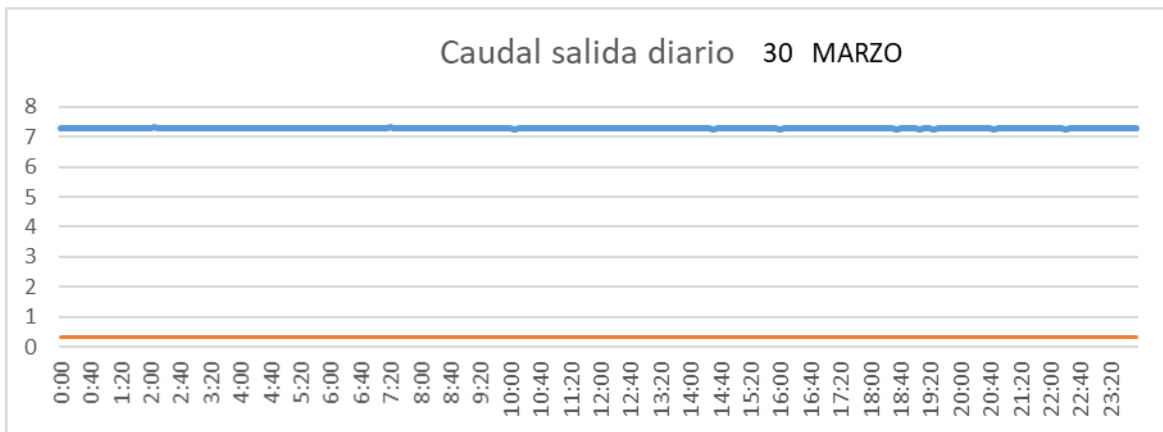
CUENCA



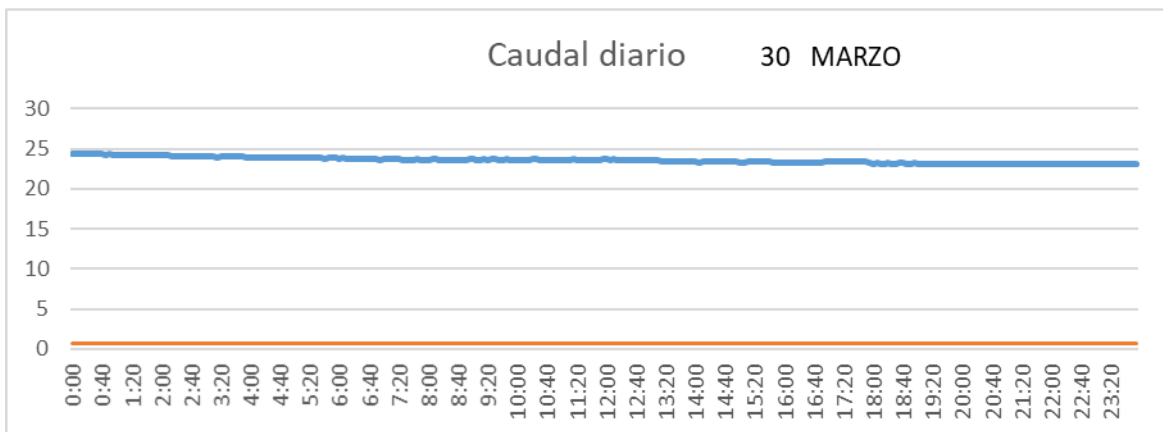
SAN LORENZO PARRILLA



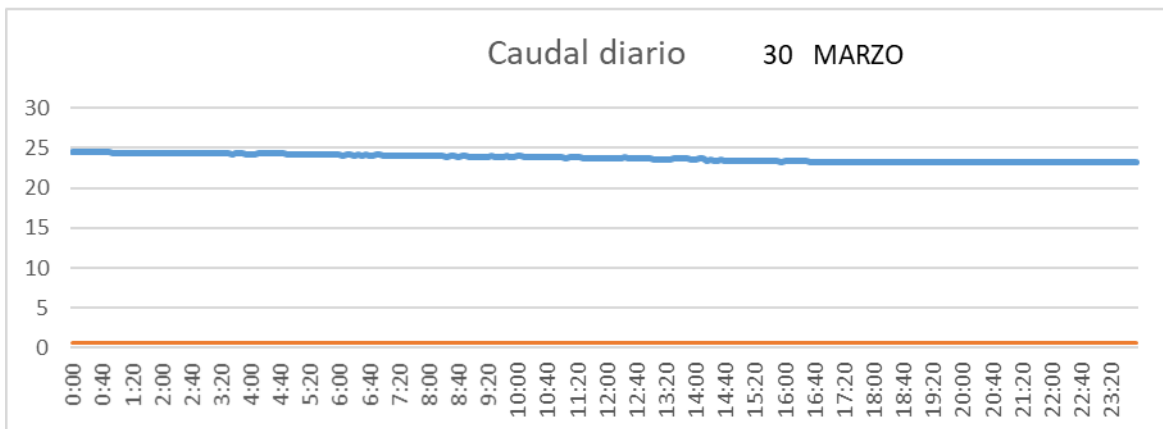
SALIDA TOBA



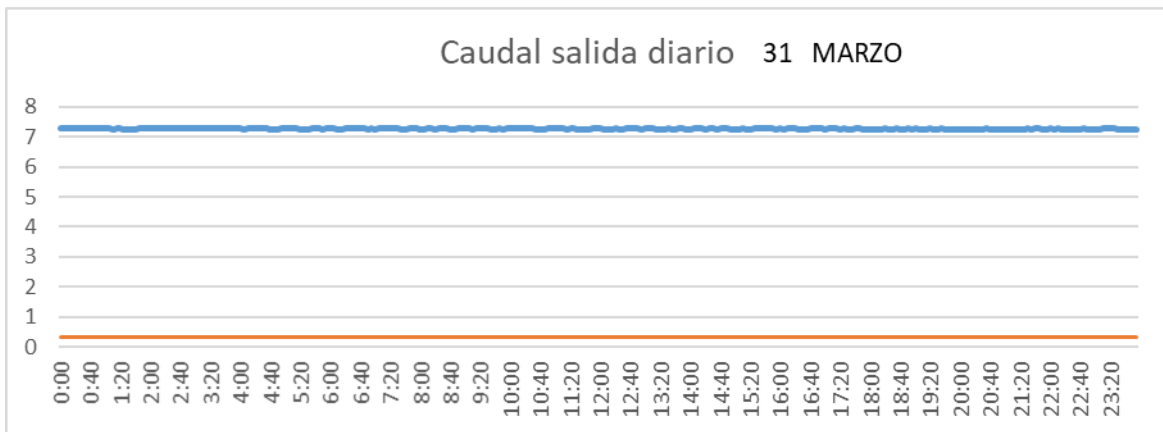
CUENCA



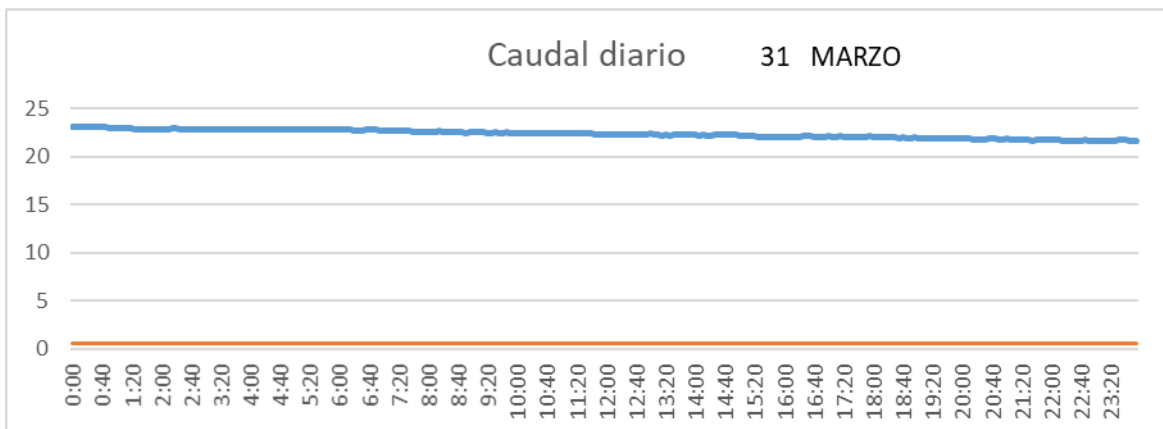
SAN LORENZO PARRILLA



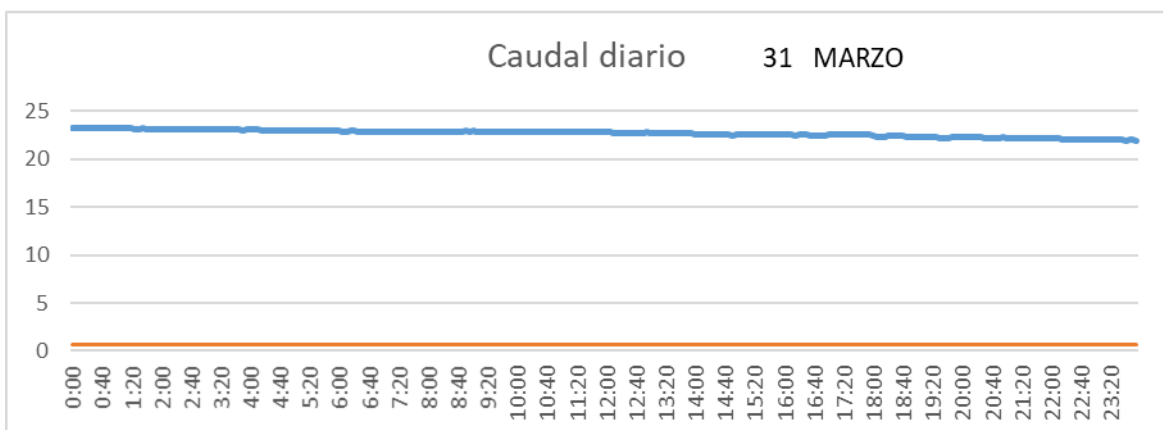
SALIDA TOBA



CUENCA

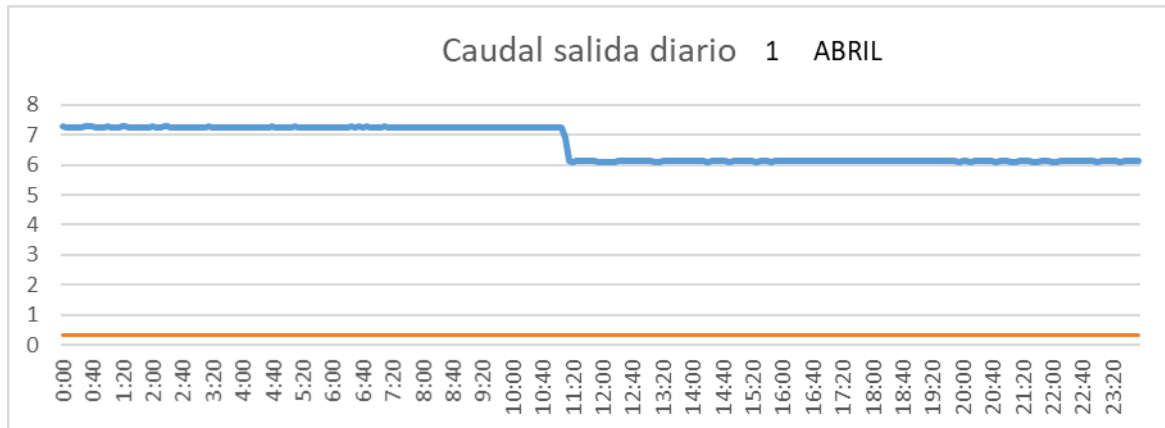


SAN LORENZO PARRILLA

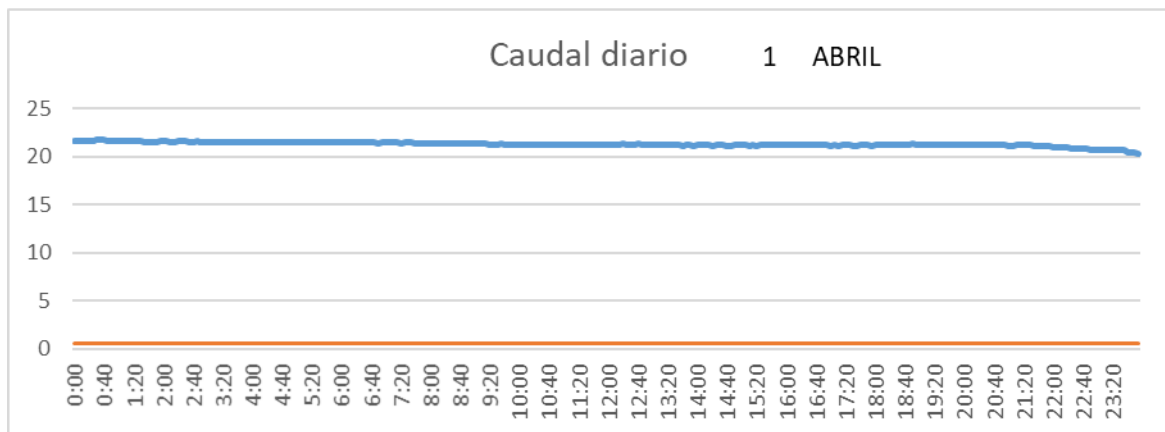


2.3.4 Abril

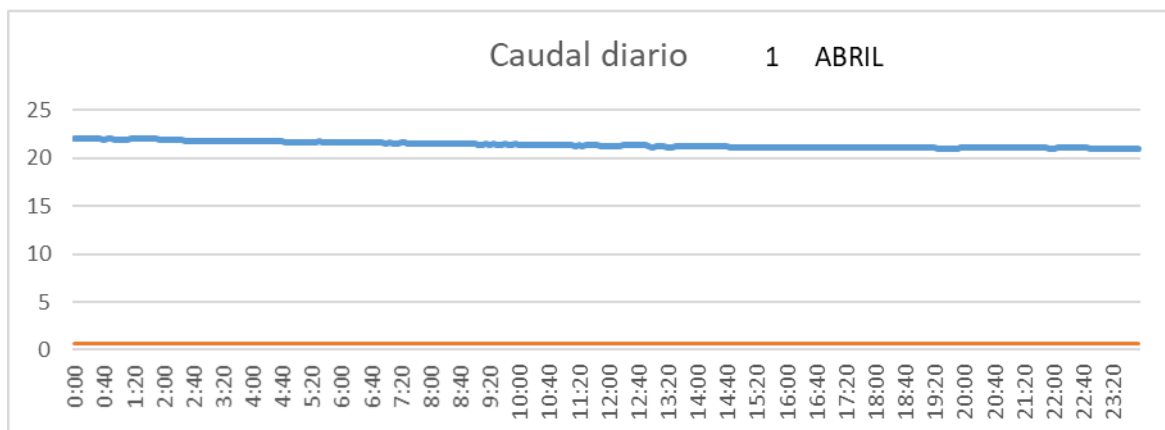
SALIDA TOBA



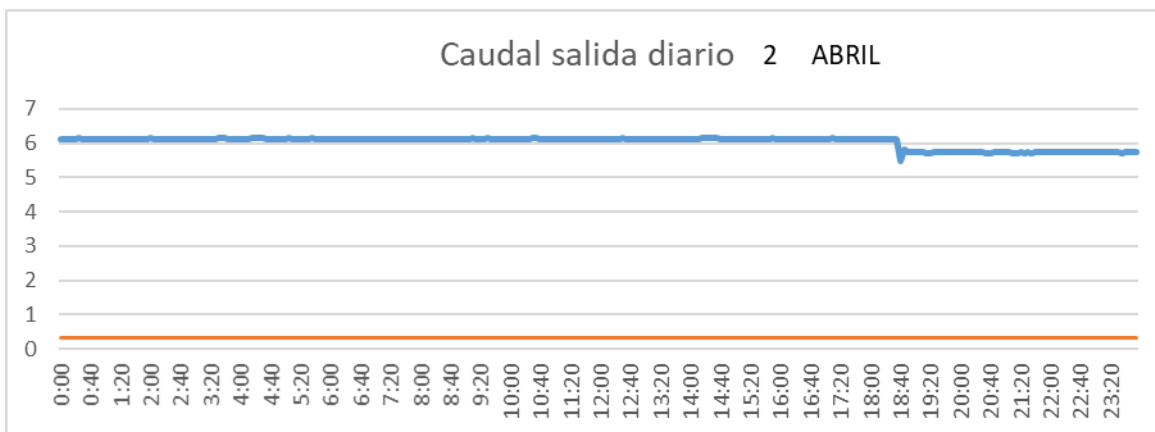
CUENCA



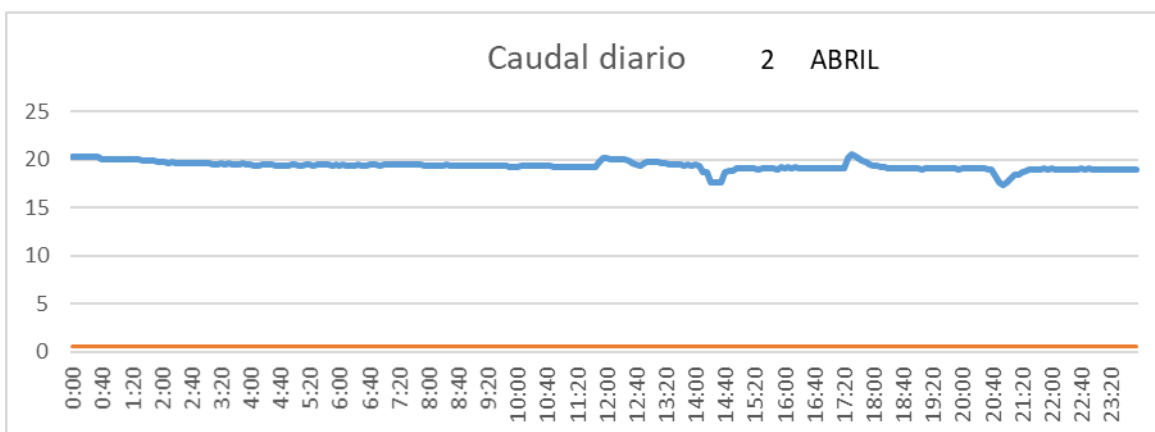
SAN LORENZO PARRILLA



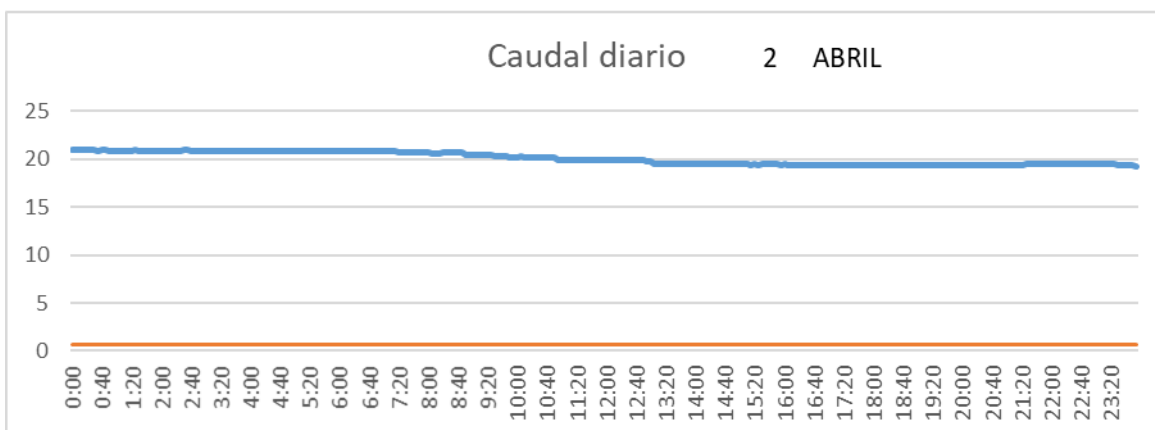
SALIDA TOBA



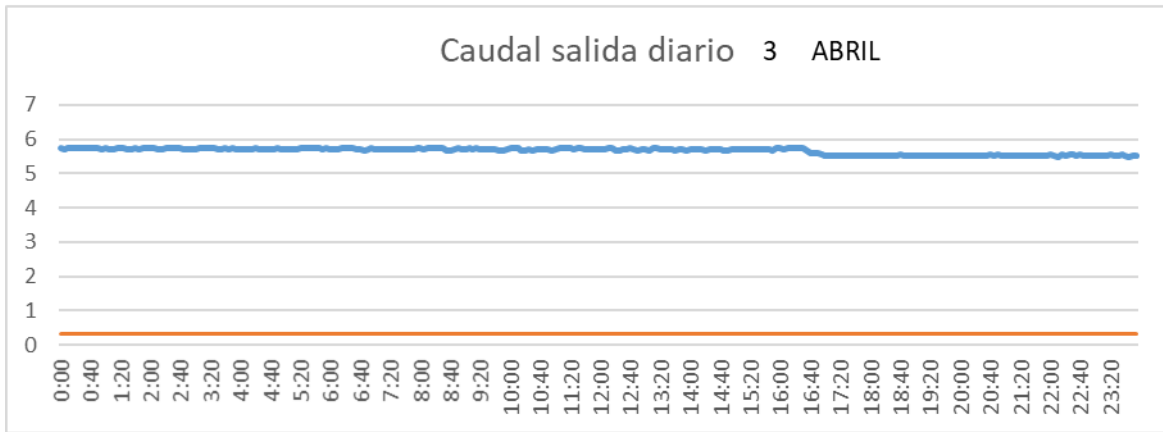
CUENCA



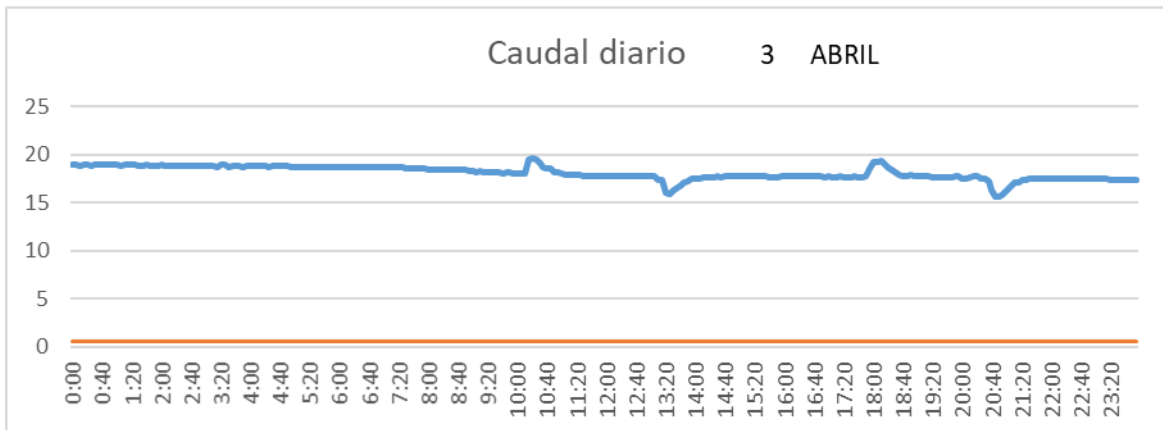
SAN LORENZO PARRILLA



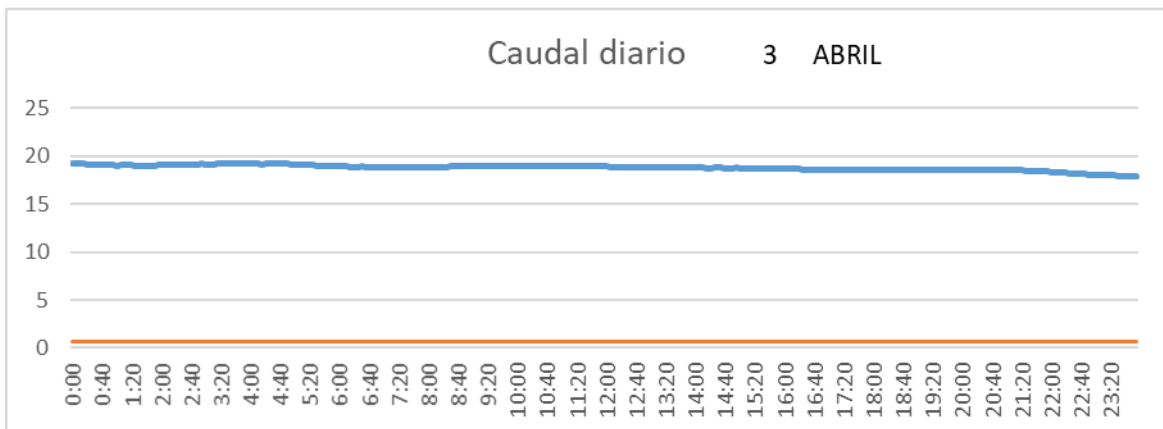
SALIDA TOBA



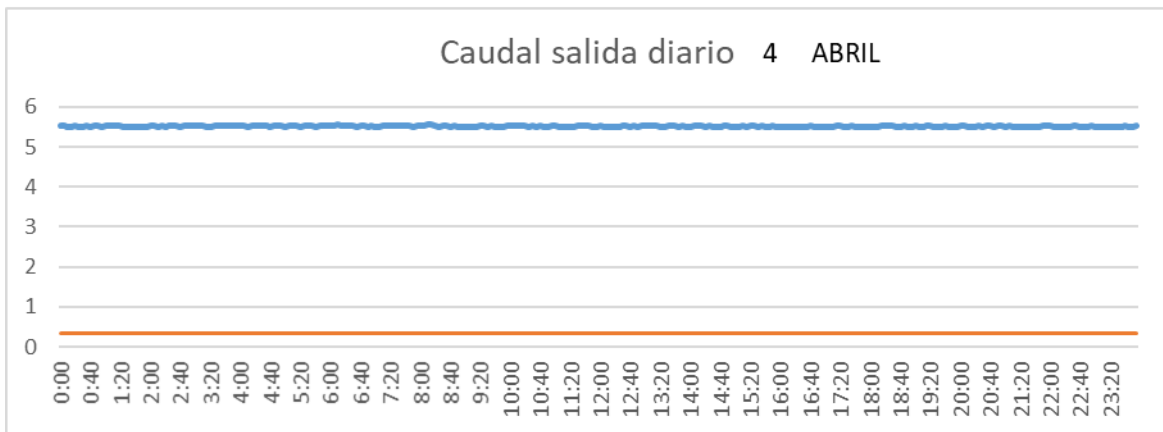
CUENCA



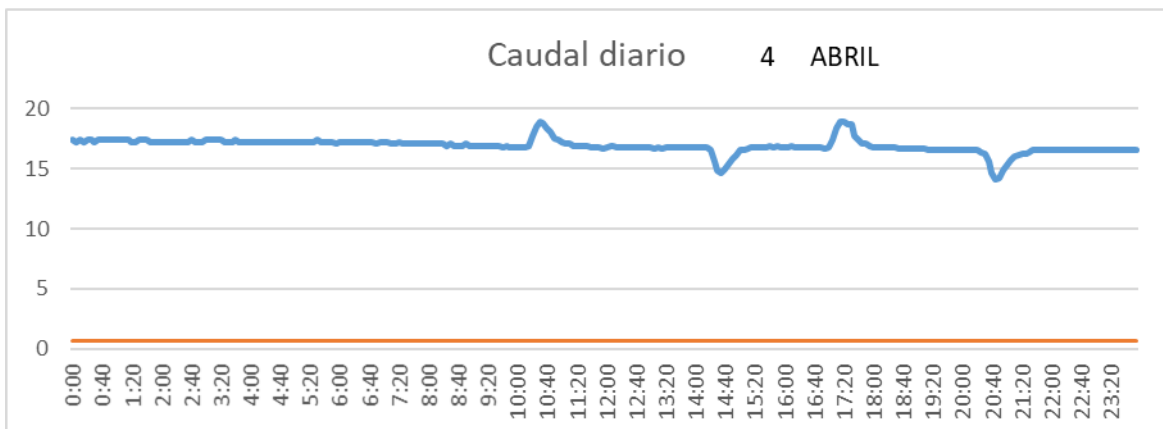
SAN LORENZO PARRILLA



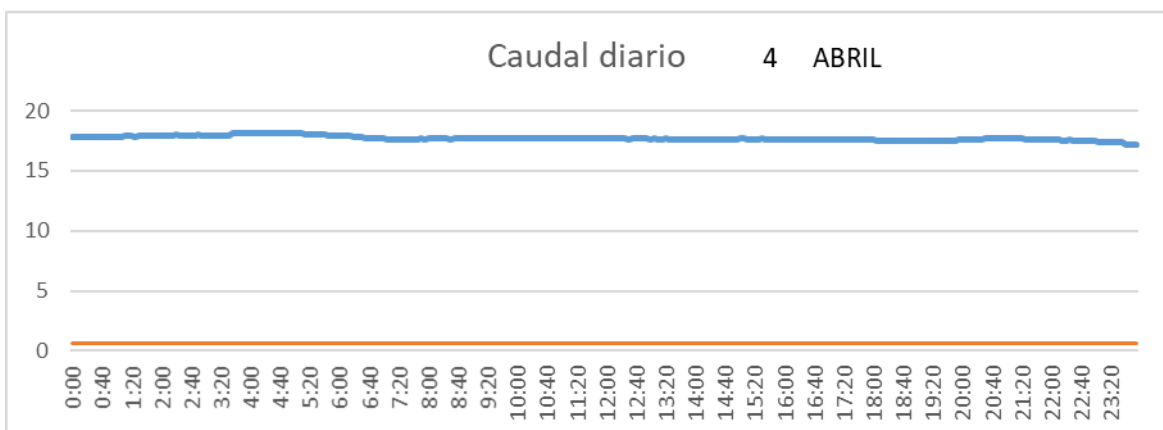
SALIDA TOBA



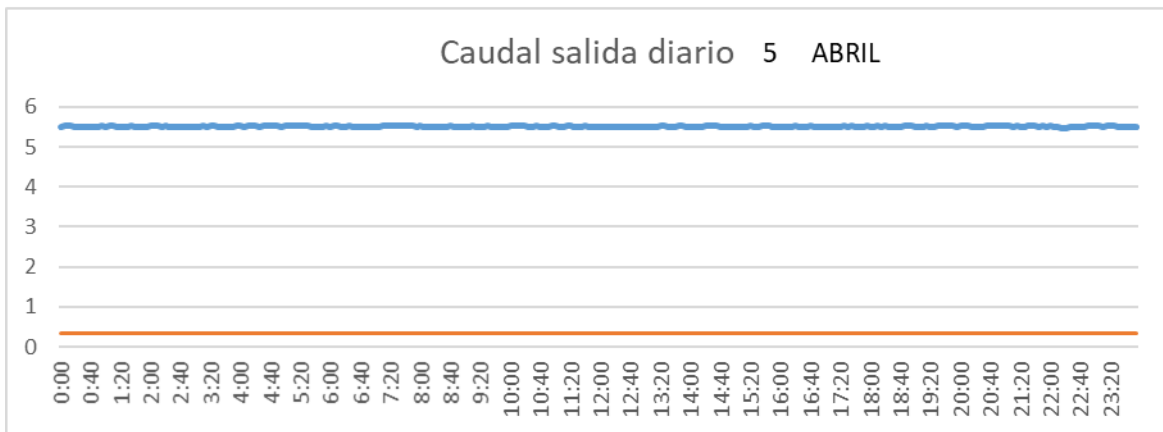
CUENCA



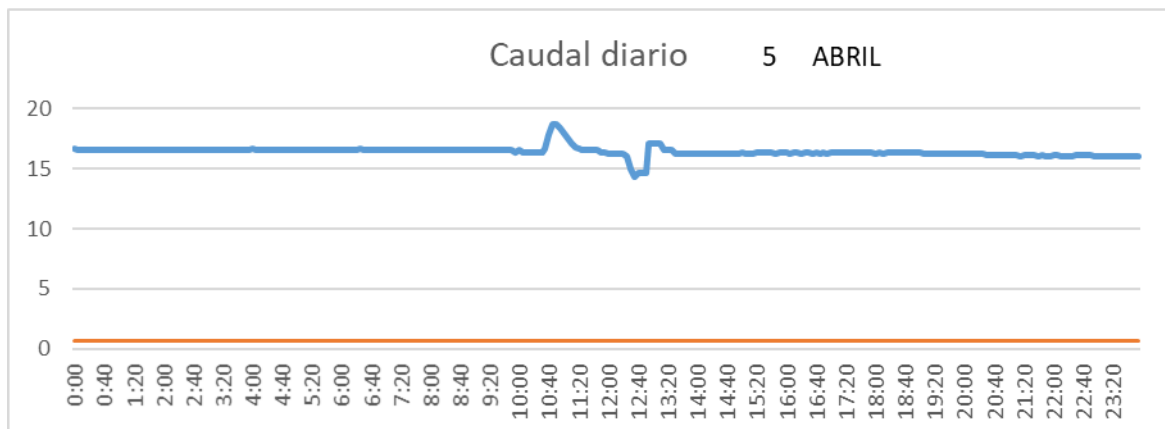
SAN LORENZO PARRILLA



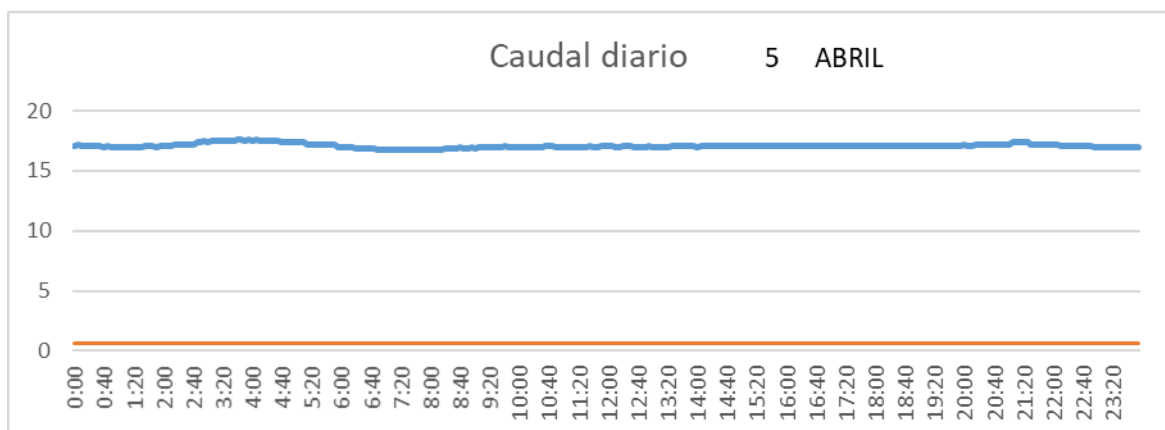
SALIDA TOBA



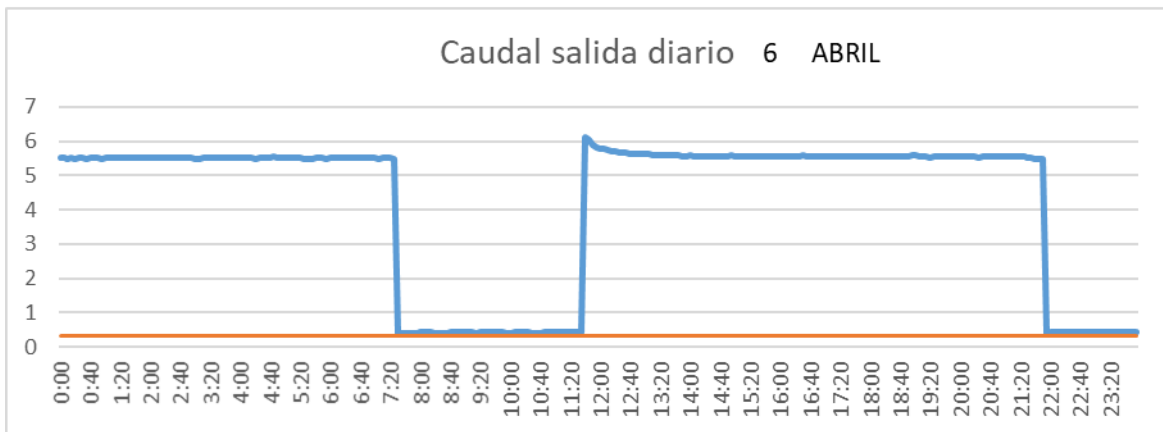
CUENCA



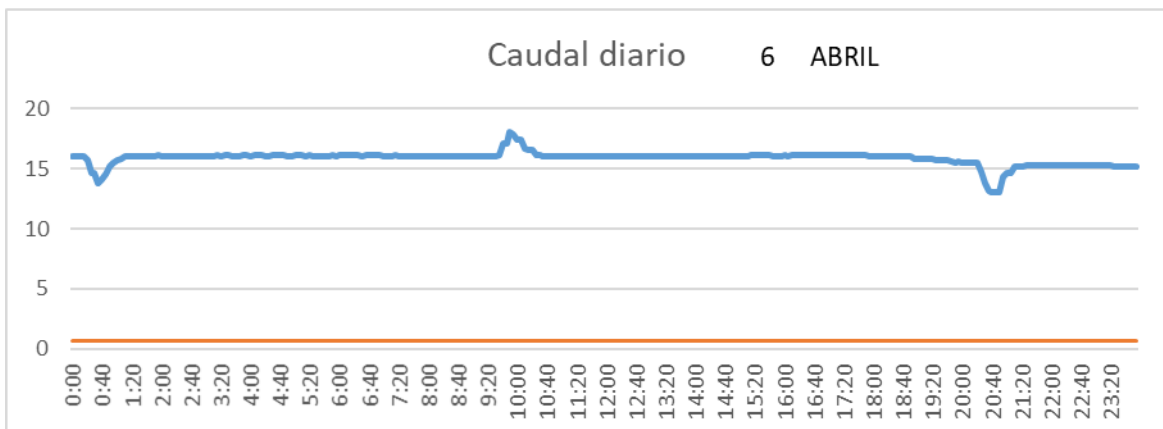
SAN LORENZO PARRILLA



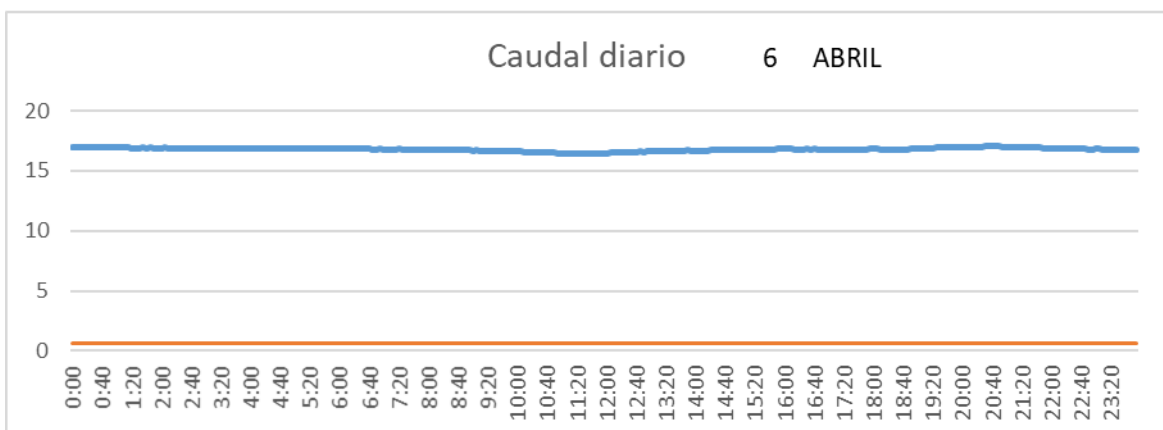
SALIDA TOBA



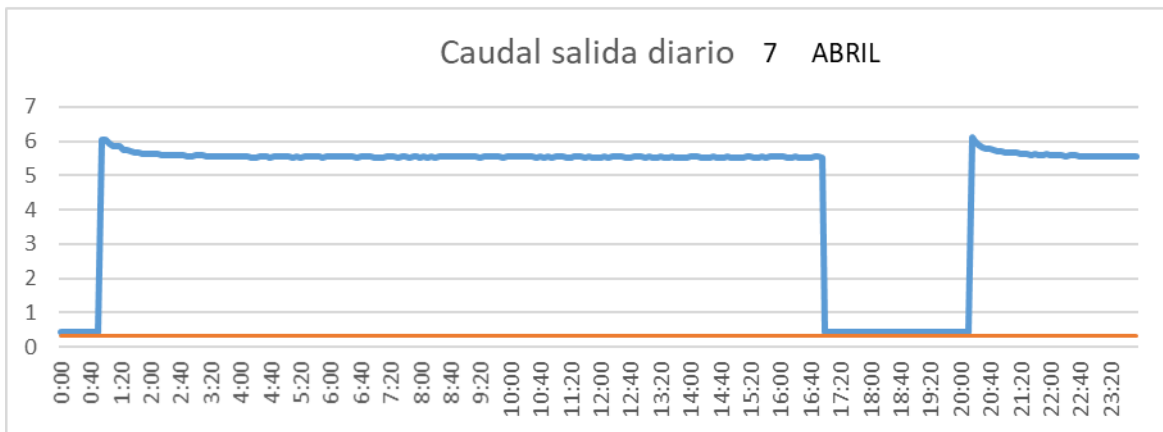
CUENCA



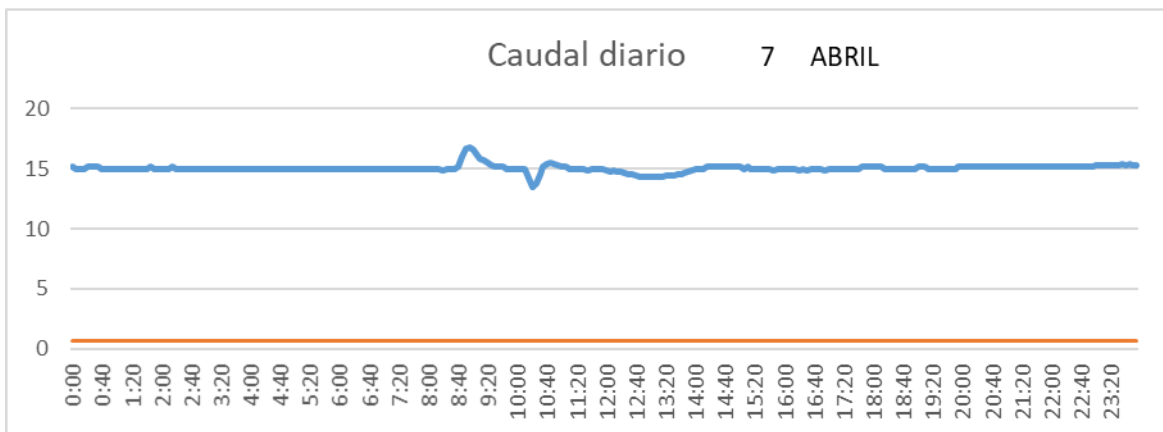
SAN LORENZO PARRILLA



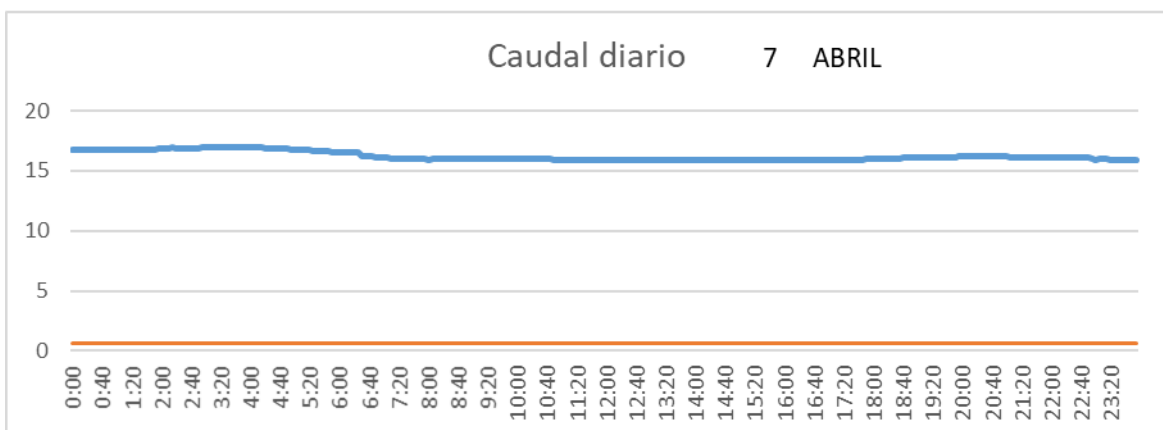
SALIDA TOBA



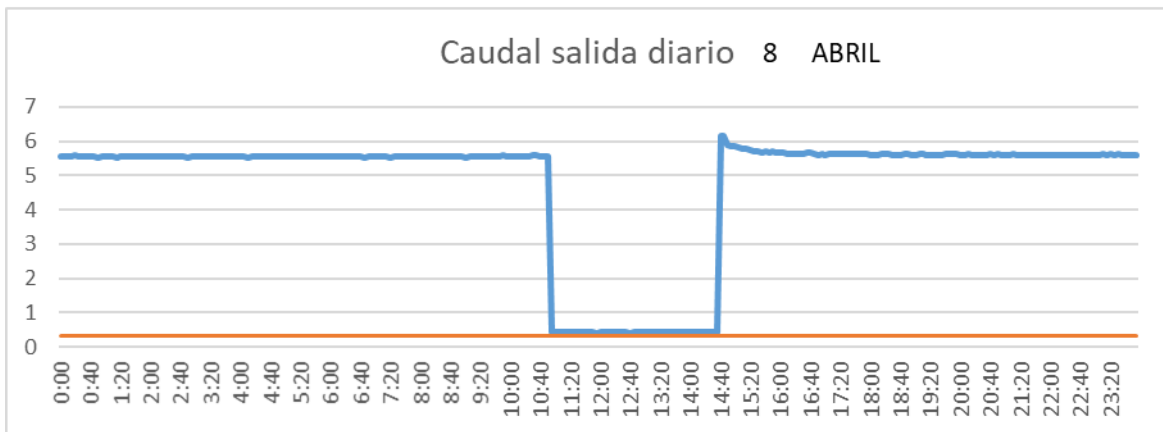
CUENCA



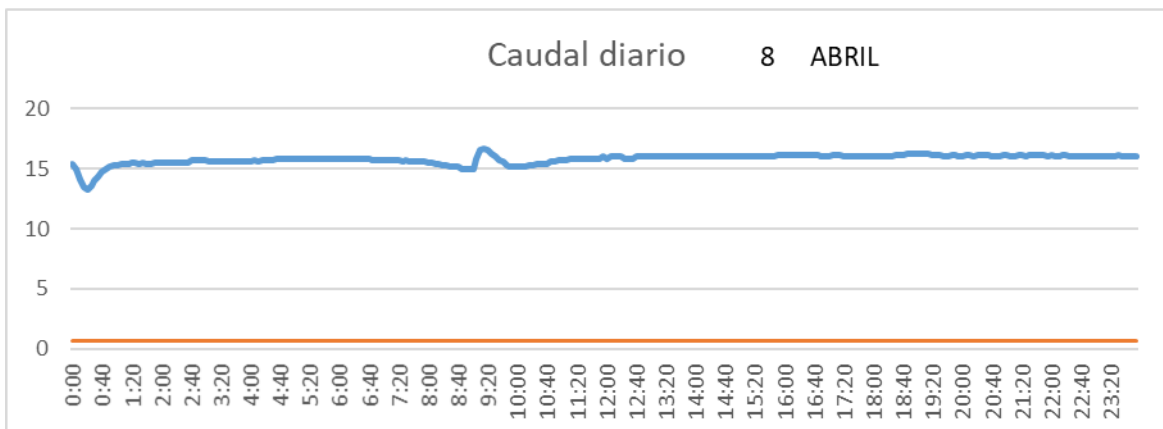
SAN LORENZO PARRILLA



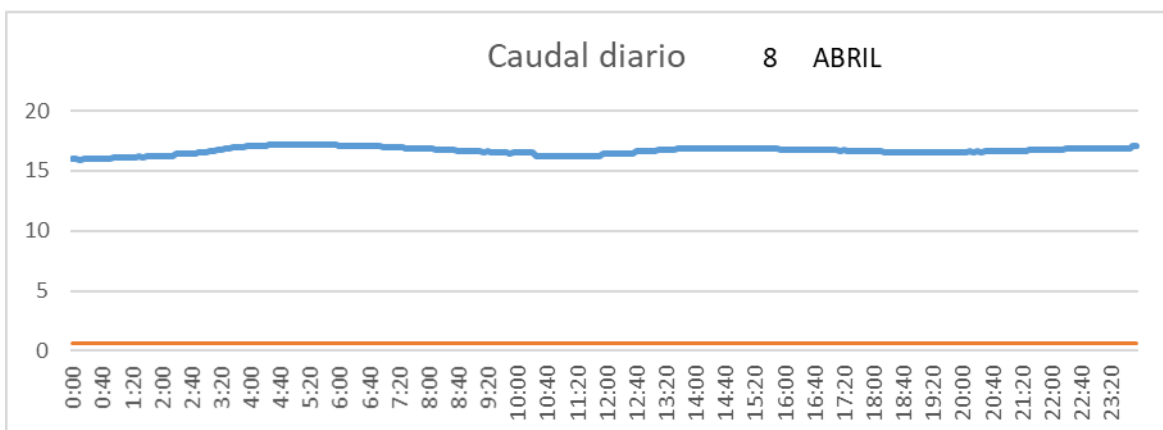
SALIDA TOBA



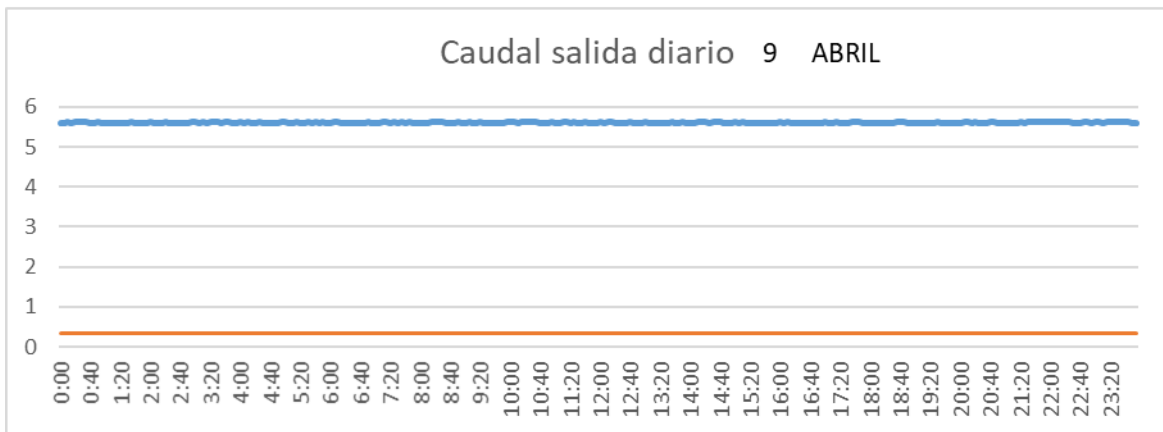
CUENCA



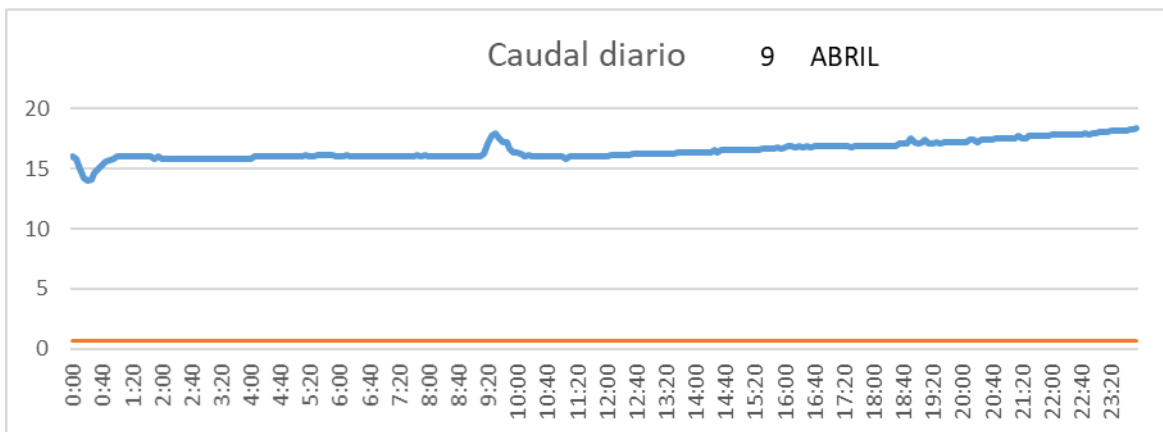
SAN LORENZO PARRILLA



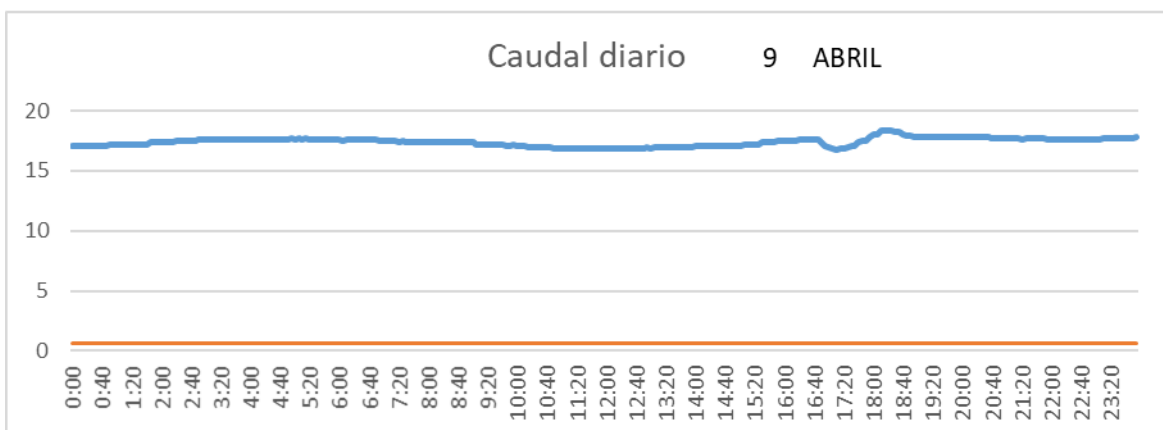
SALIDA TOBA



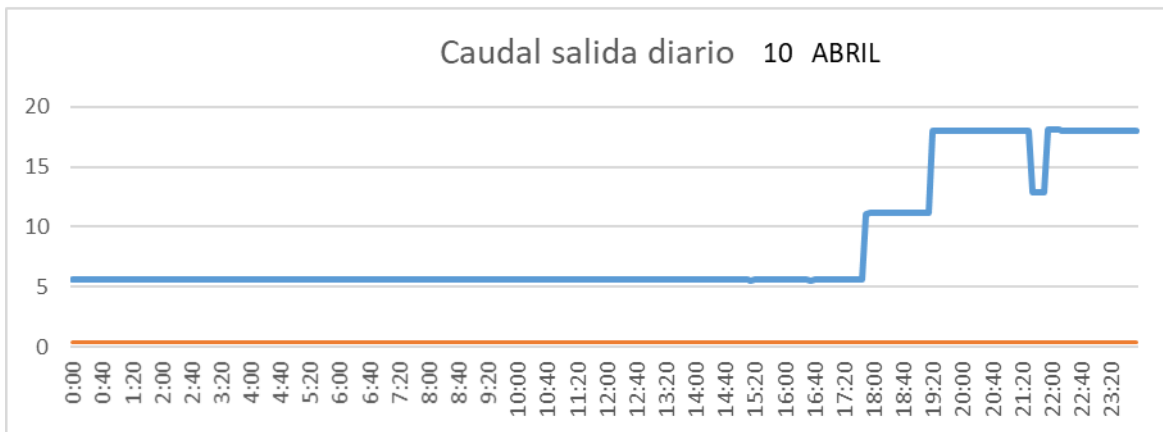
CUENCA



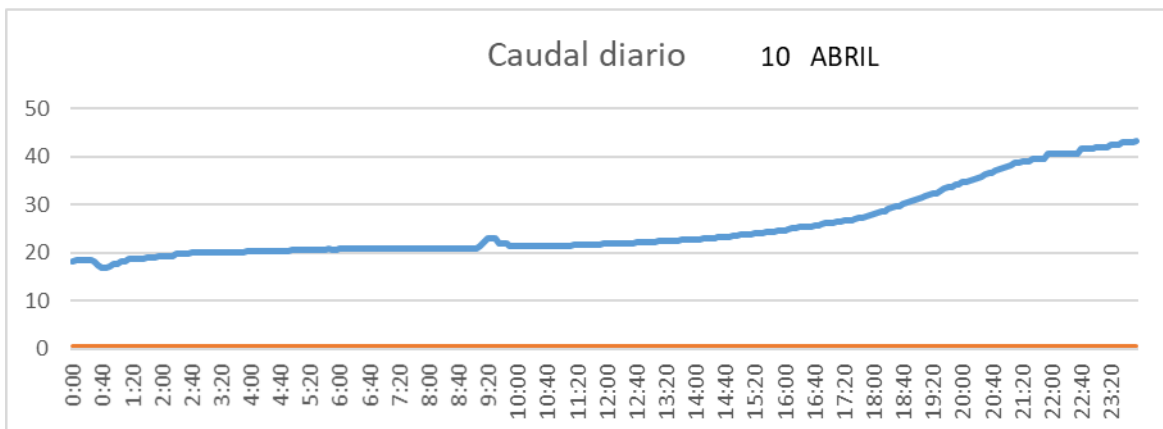
SAN LORENZO PARRILLA



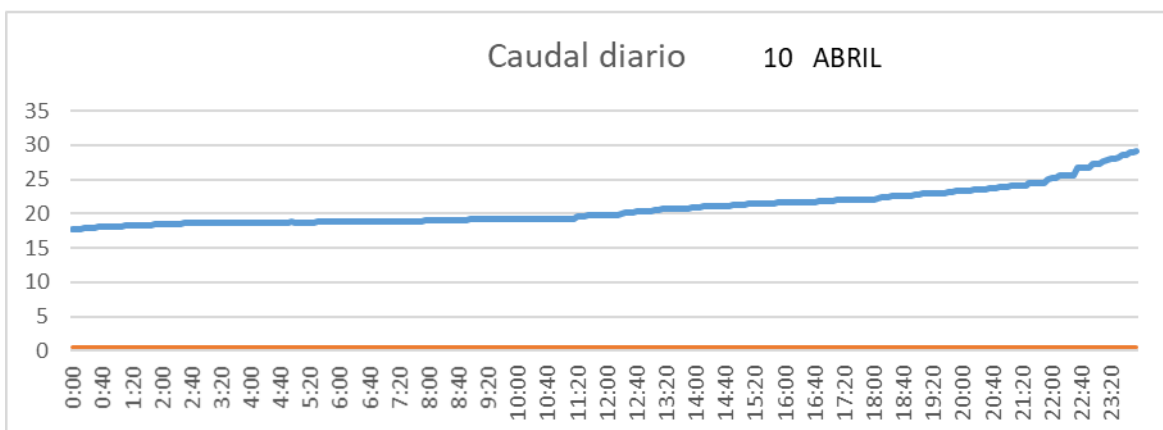
SALIDA TOBA



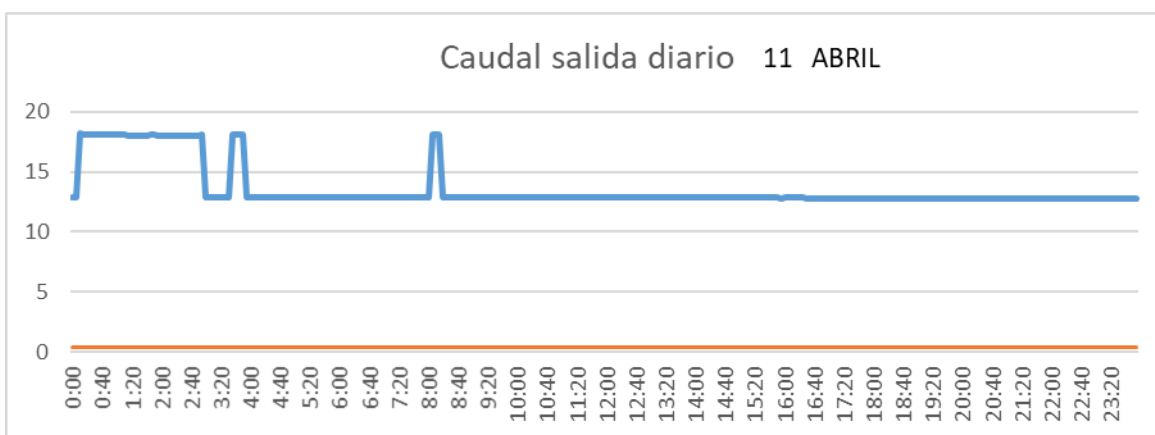
CUENCA



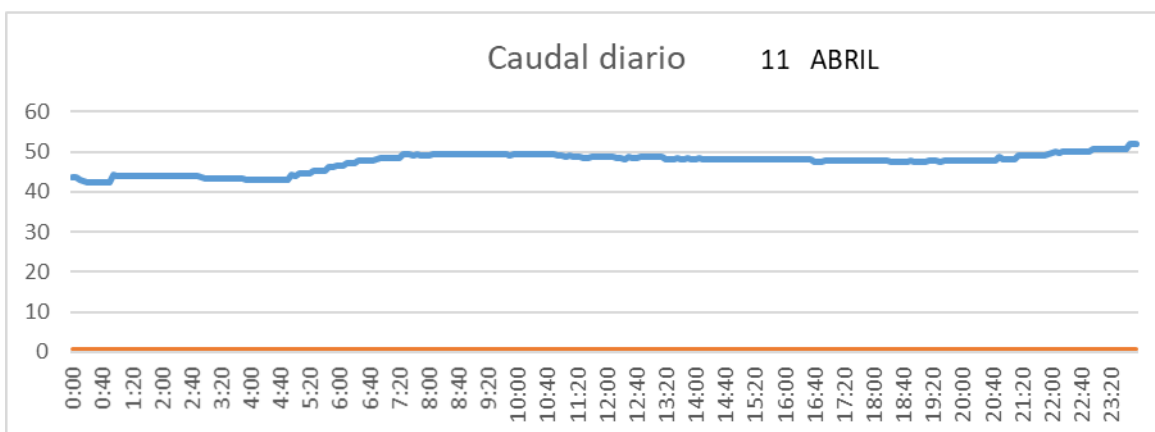
SAN LORENZO PARRILLA



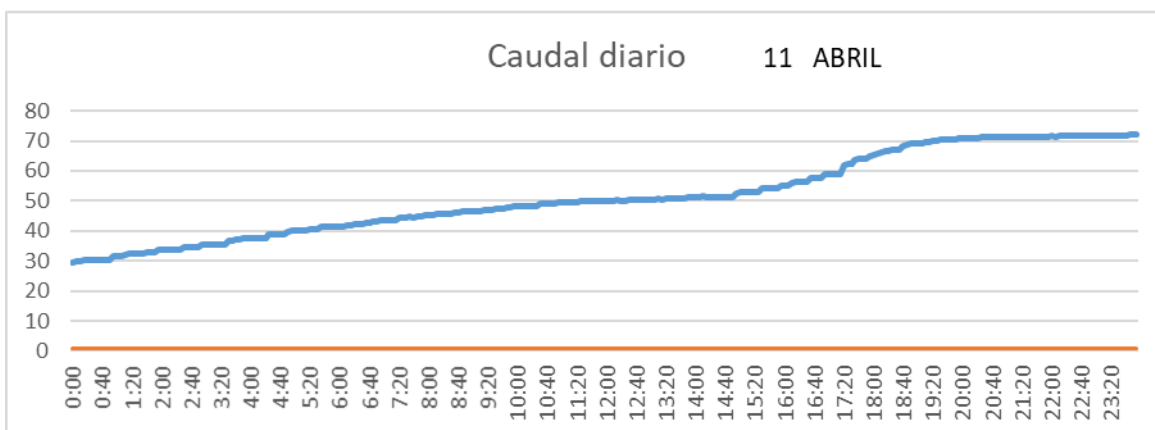
SALIDA TOBA



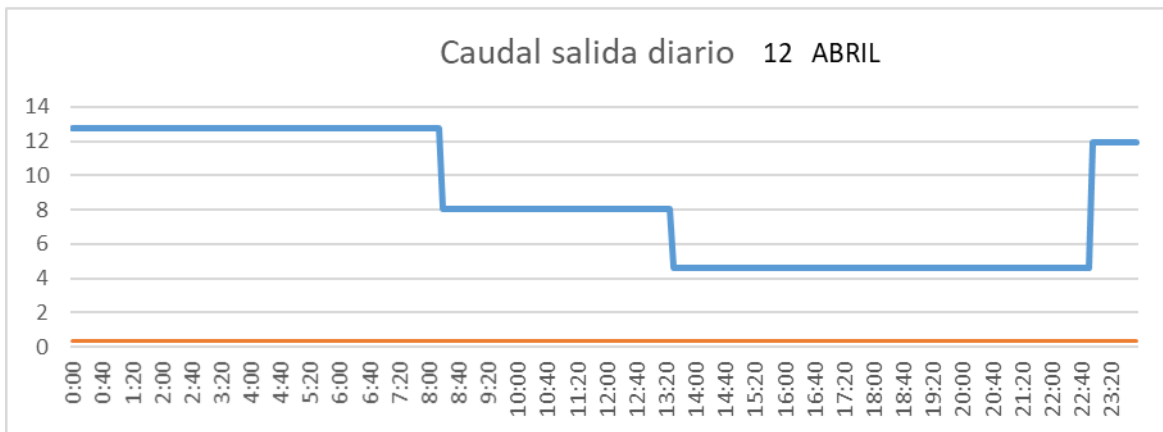
CUENCA



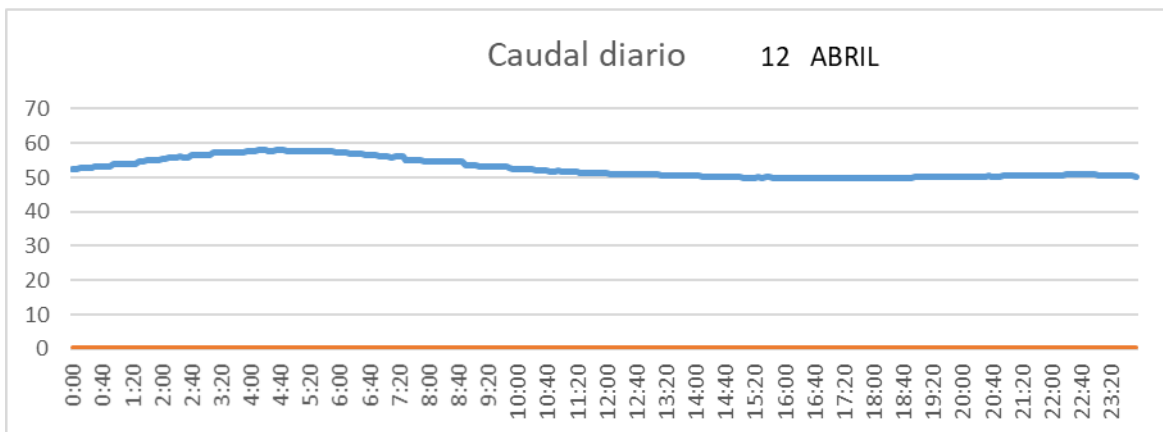
SAN LORENZO PARRILLA



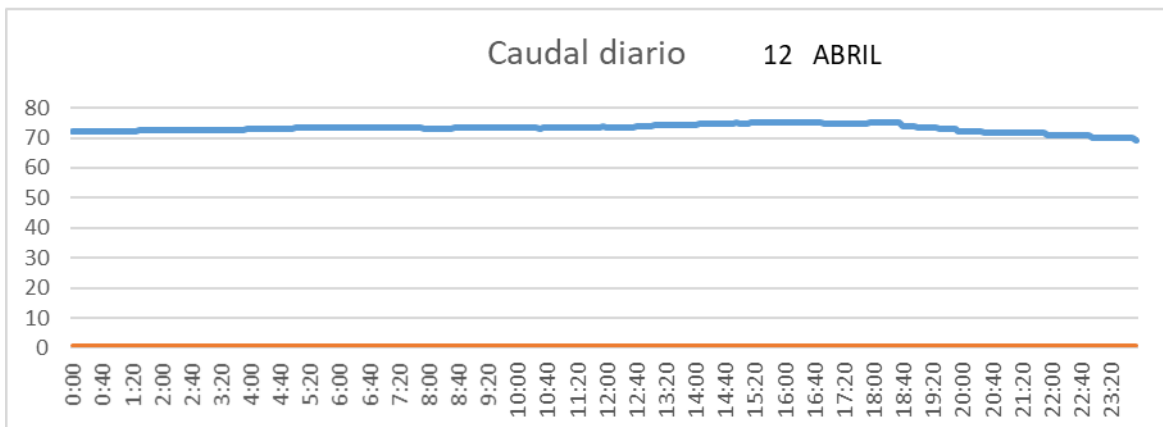
SALIDA TOBA



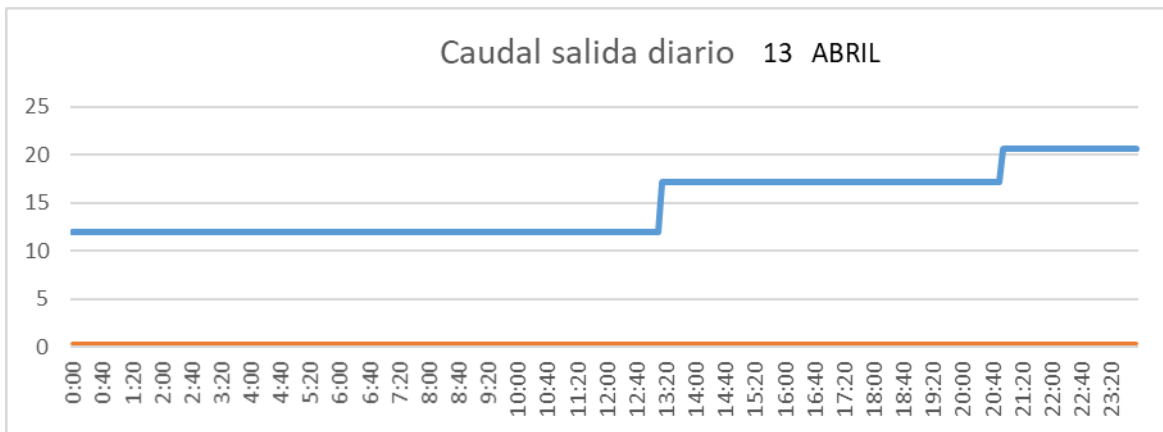
CUENCA



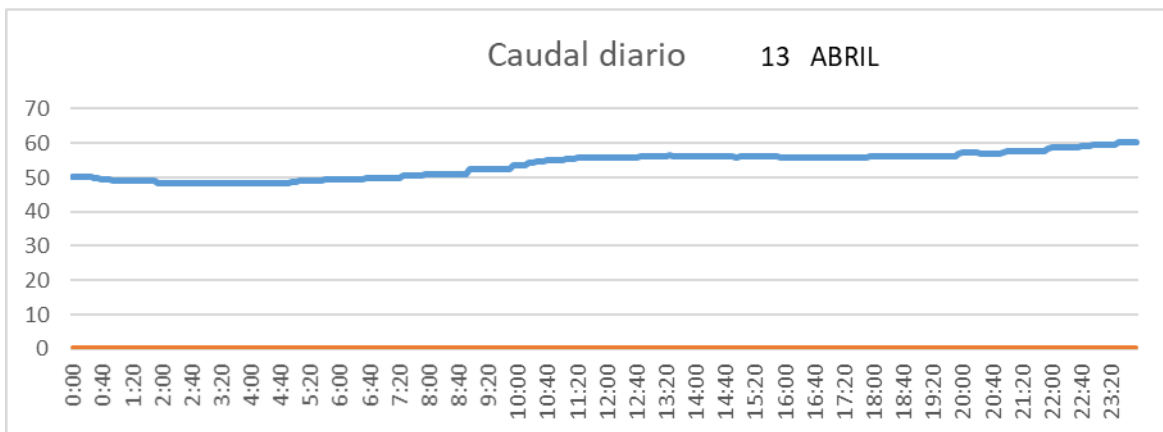
SAN LORENZO PARRILLA



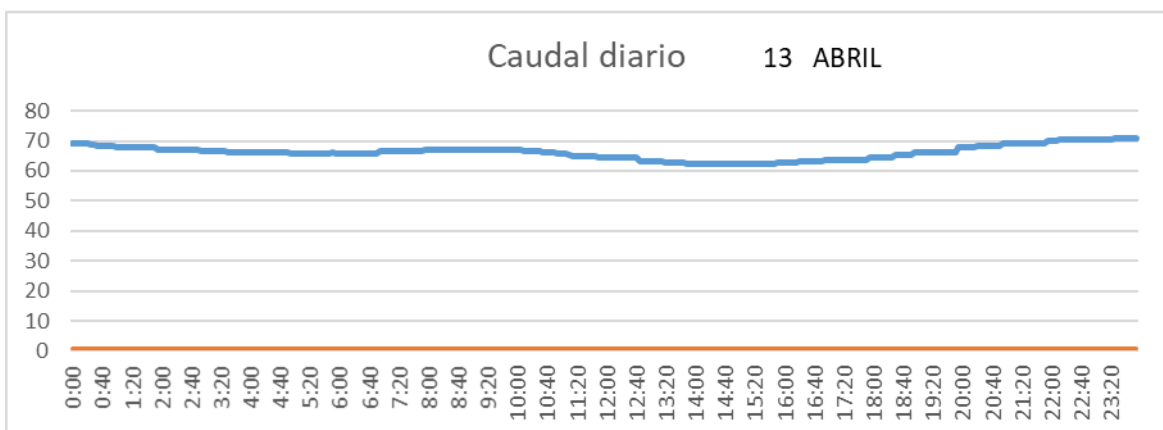
SALIDA TOBA



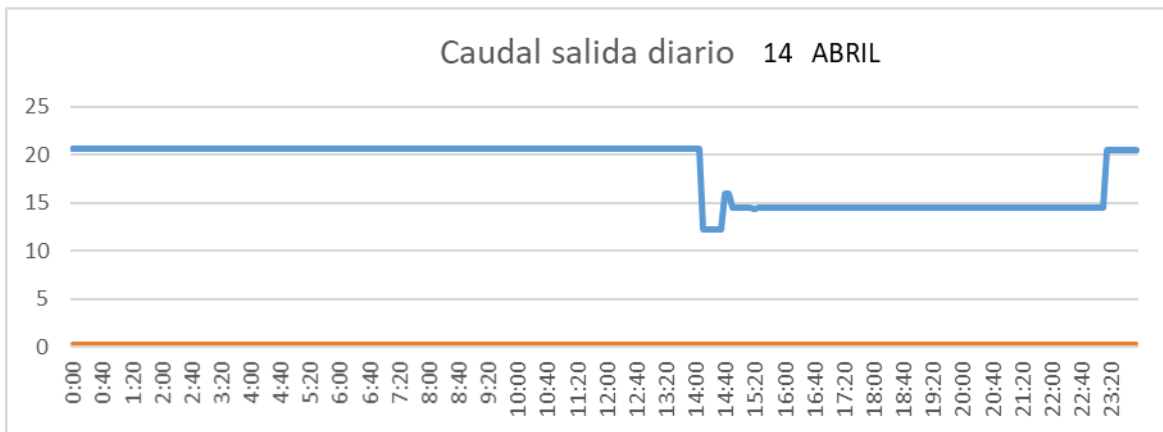
CUENCA



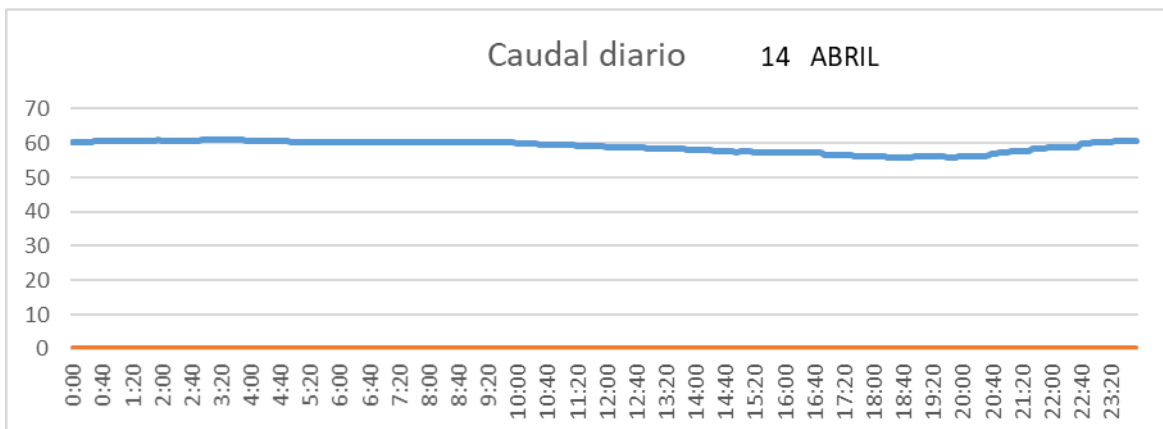
SAN LORENZO PARRILLA



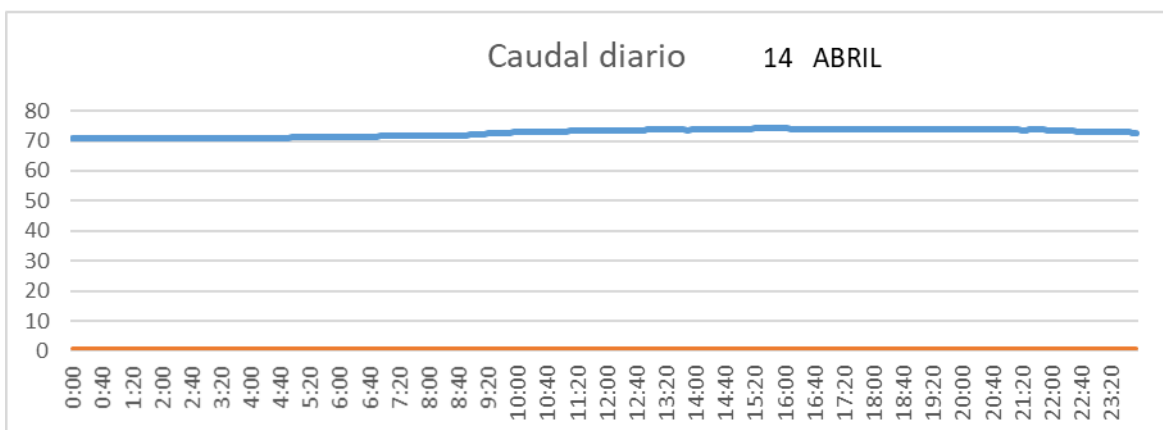
SALIDA TOBA



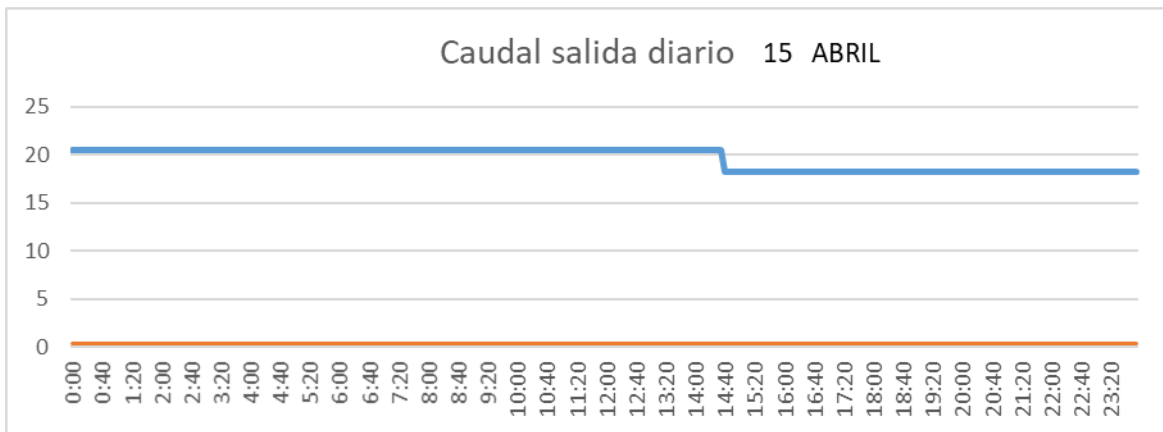
CUENCA



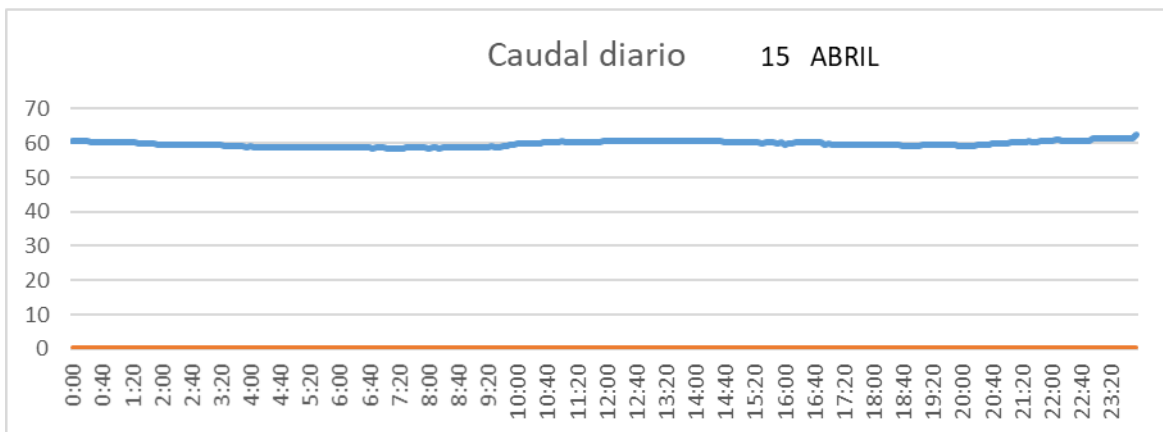
SAN LORENZO PARRILLA



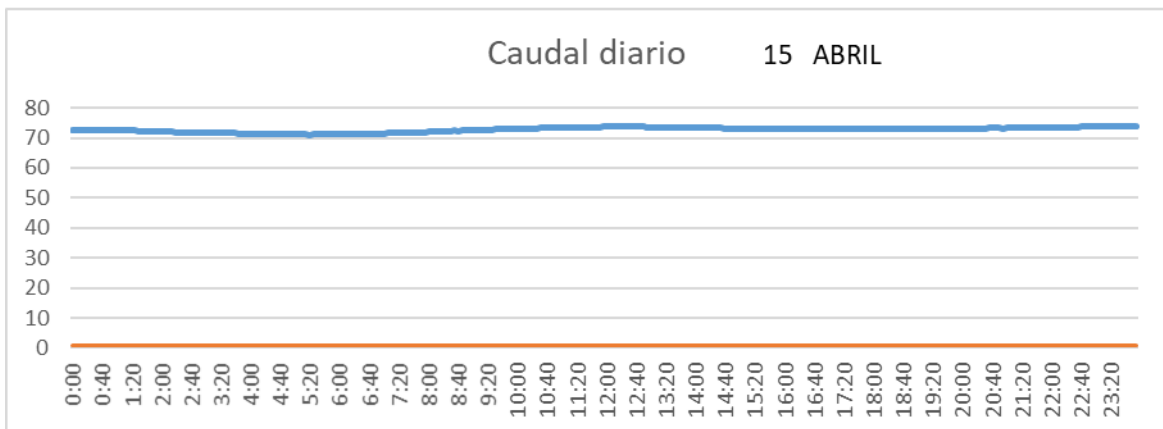
SALIDA TOBA



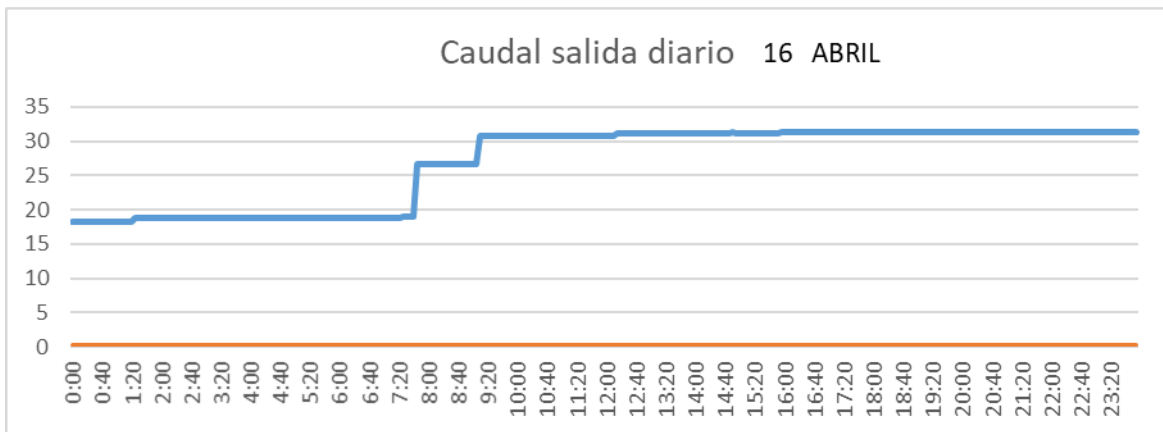
CUENCA



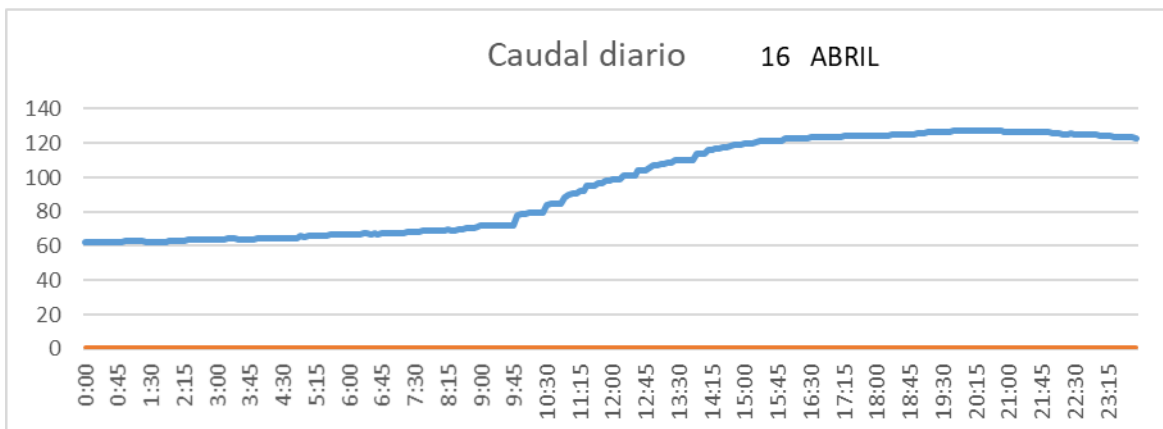
SAN LORENZO PARRILLA



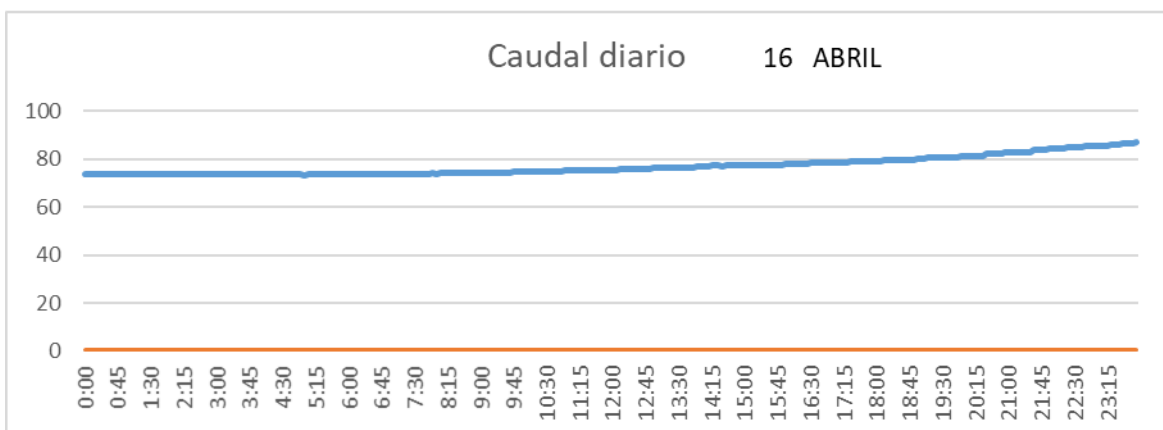
SALIDA TOBA



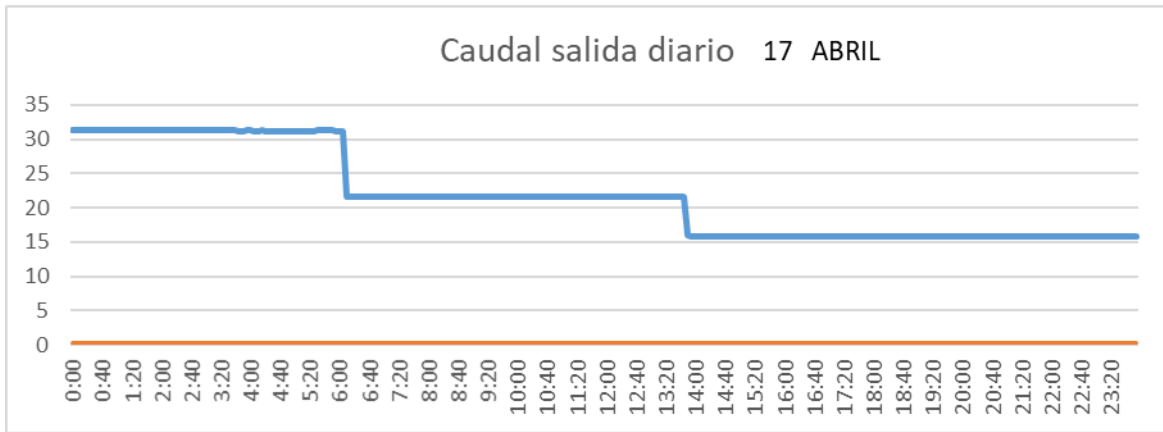
CUENCA



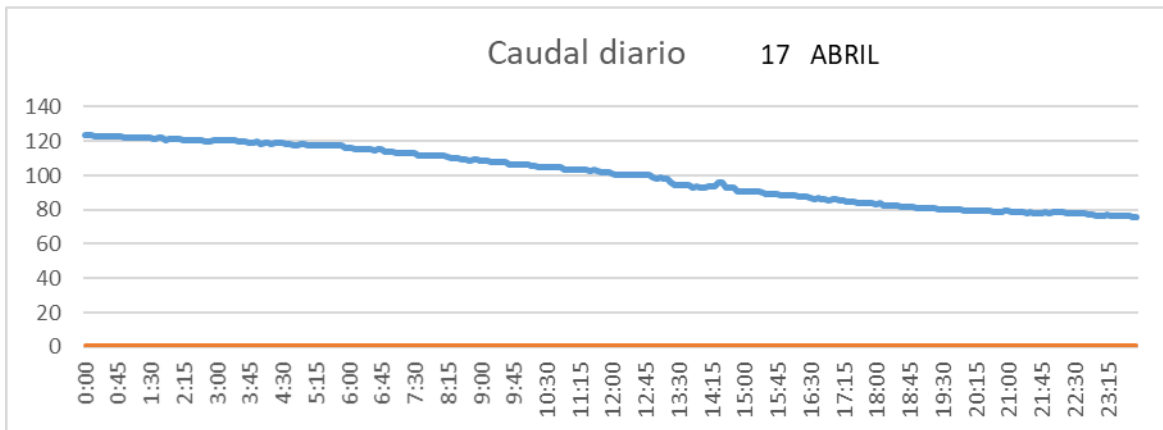
SAN LORENZO PARRILLA



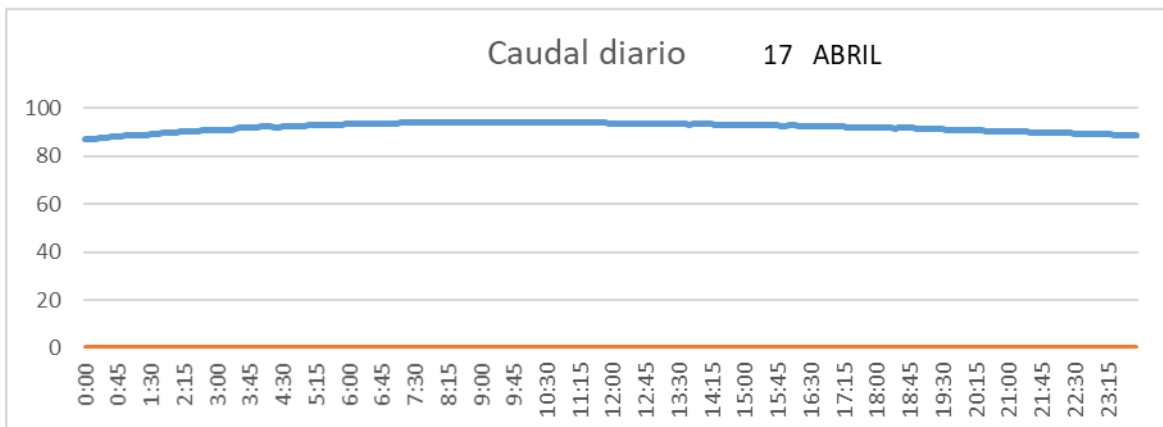
SALIDA TOBA



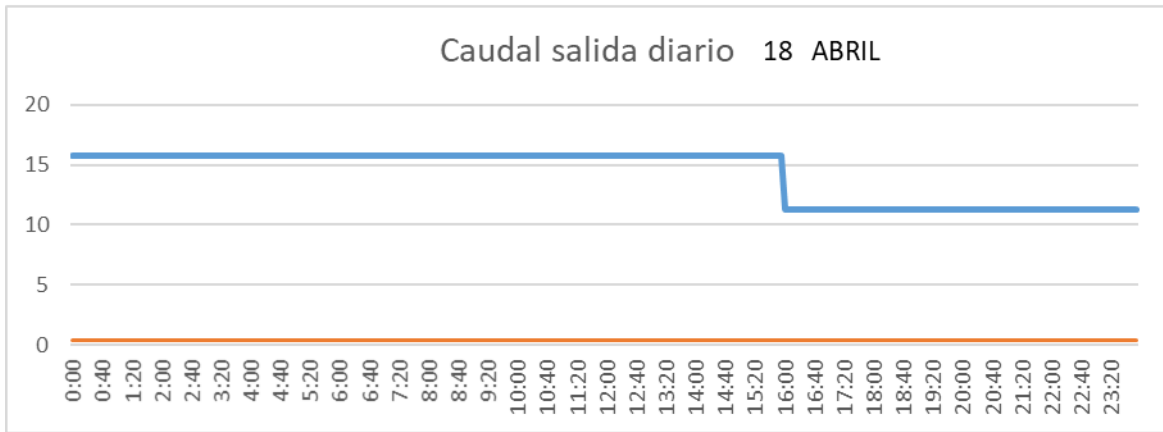
CUENCA



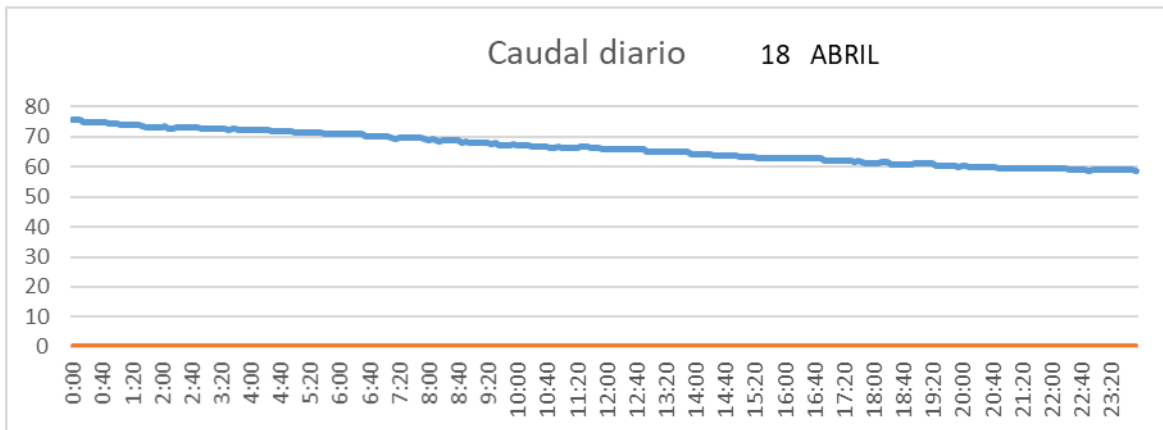
SAN LORENZO PARRILLA



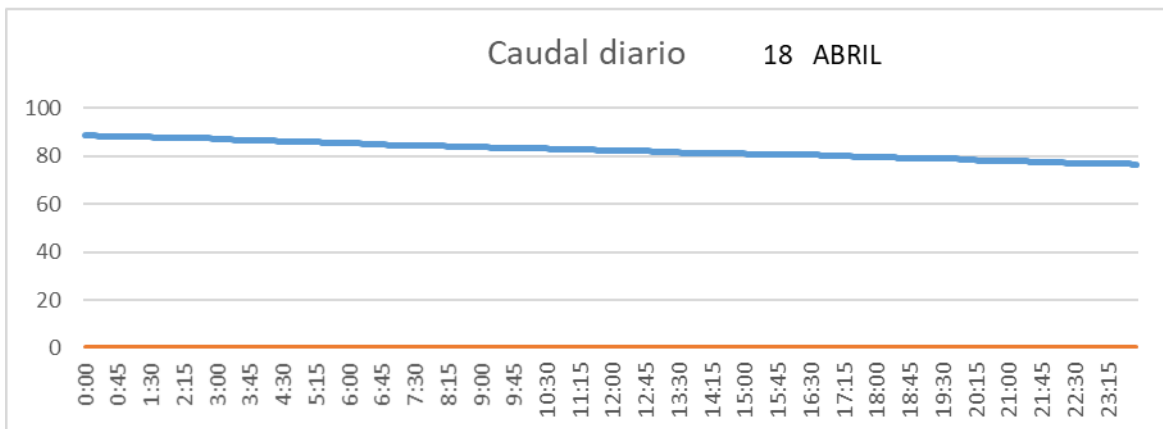
SALIDA TOBA



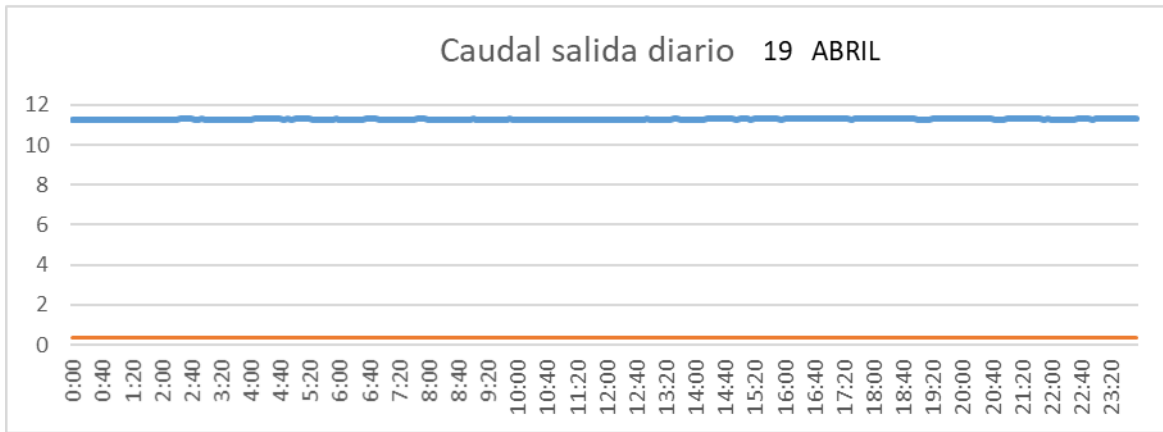
CUENCA



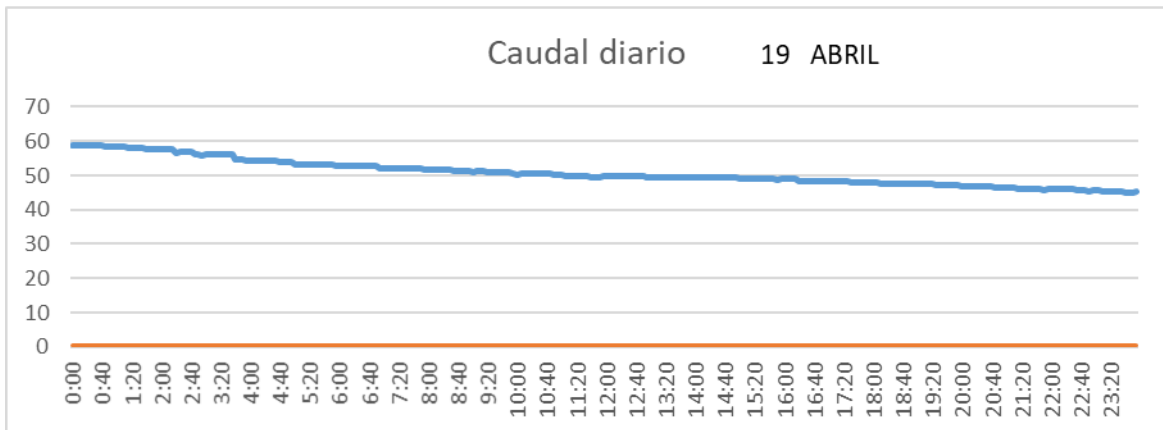
SAN LORENZO PARRILLA



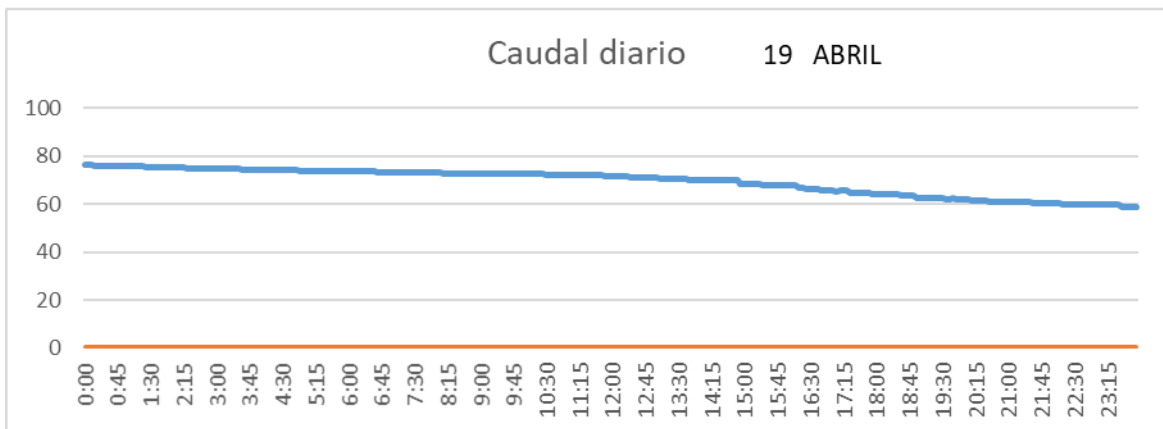
SALIDA TOBA



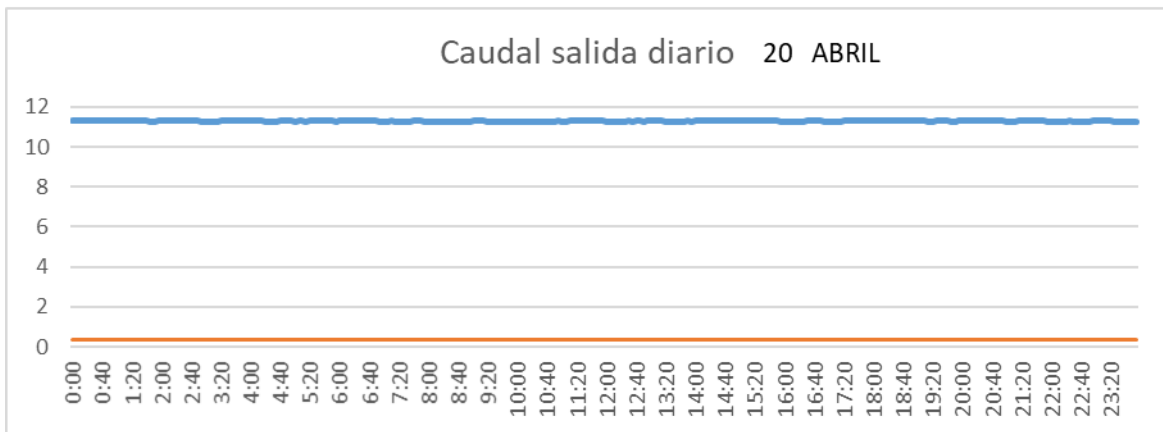
CUENCA



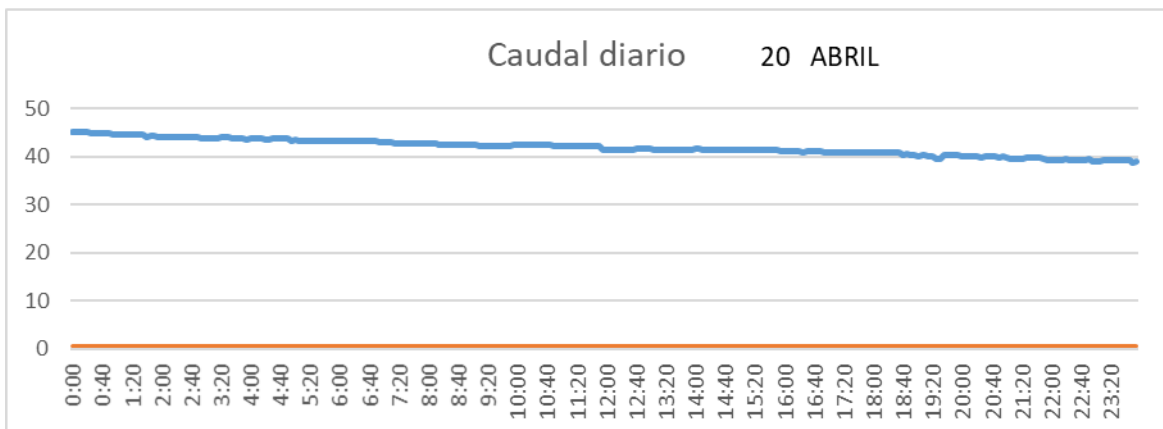
SAN LORENZO PARRILLA



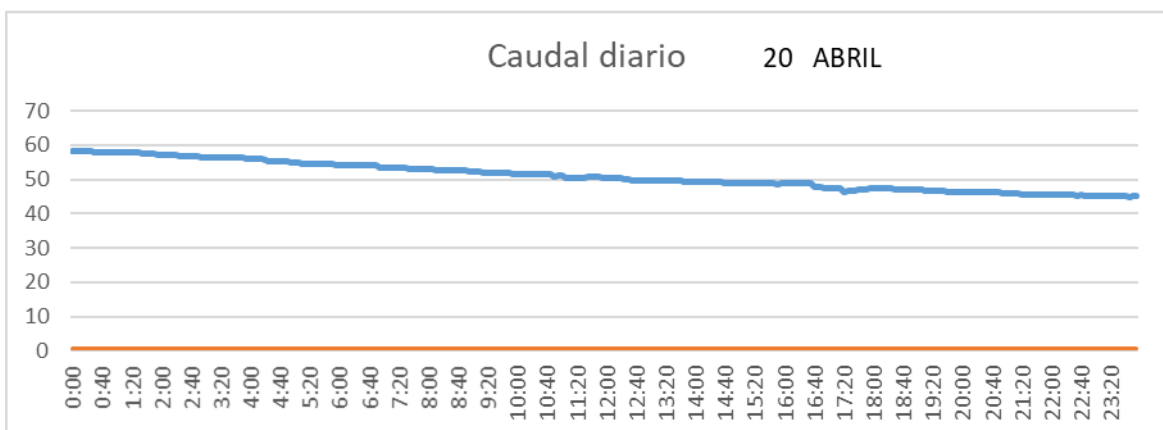
SALIDA TOBA



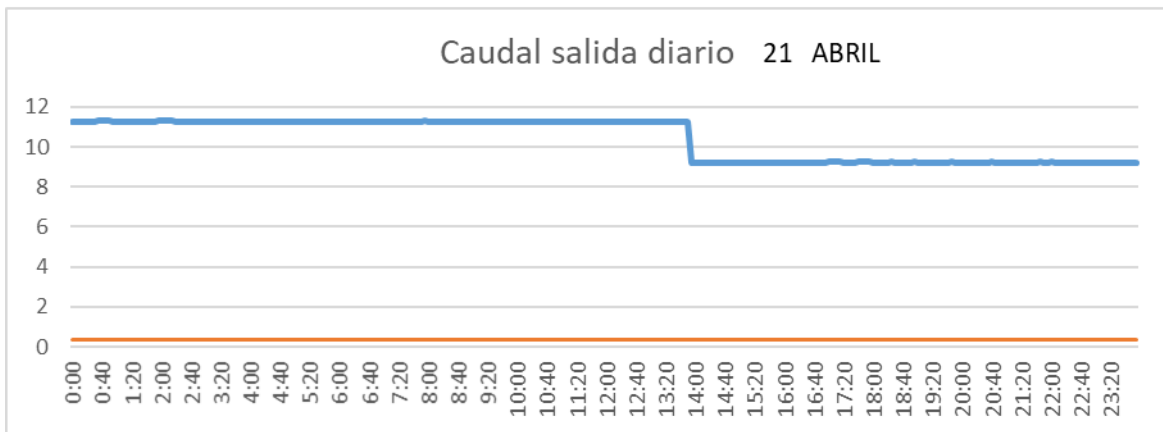
CUENCA



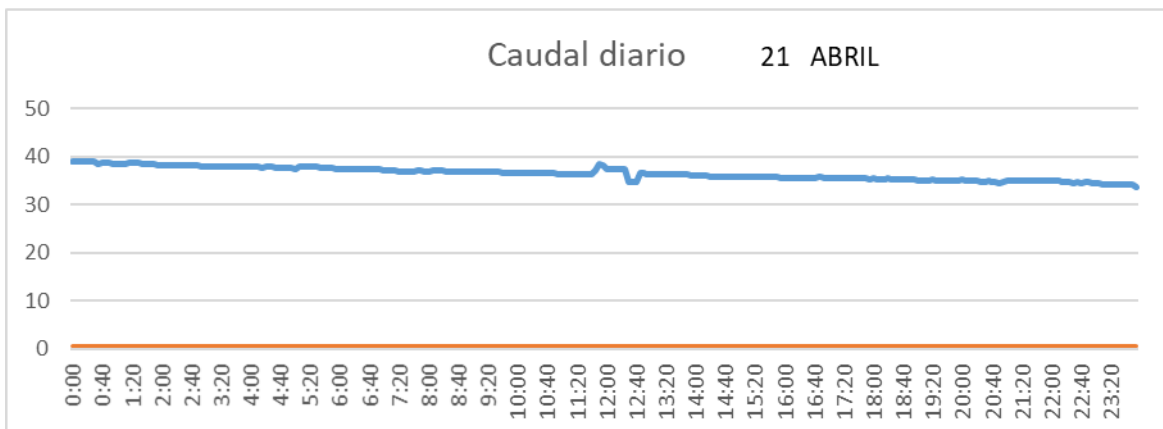
SAN LORENZO PARRILLA



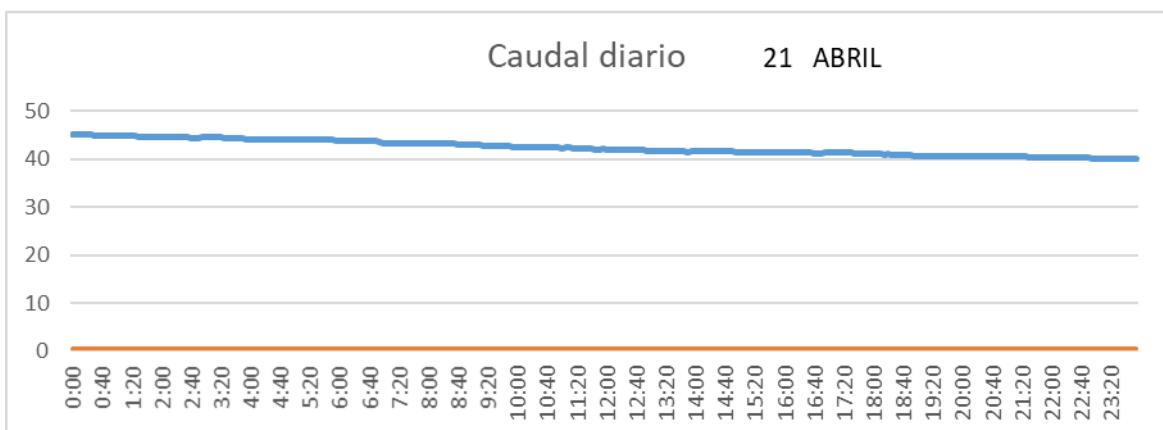
SALIDA TOBA



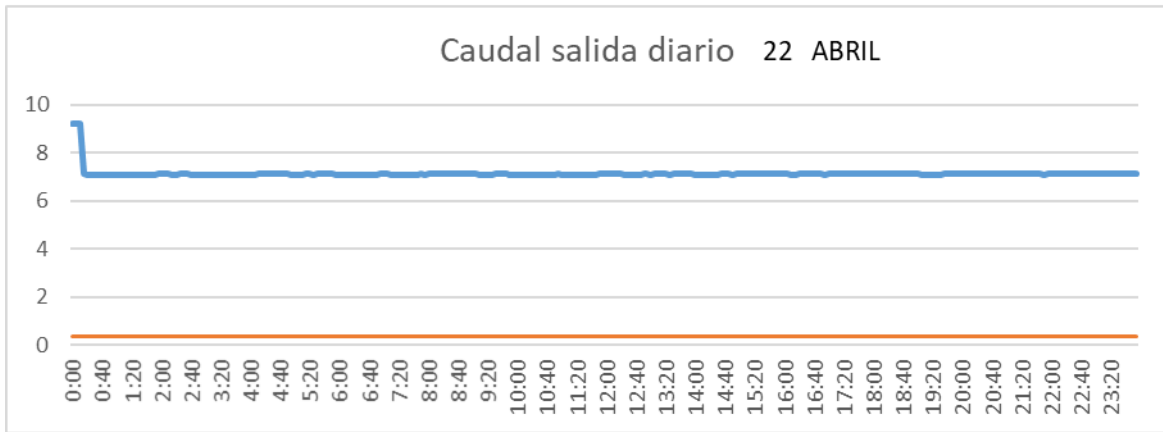
CUENCA



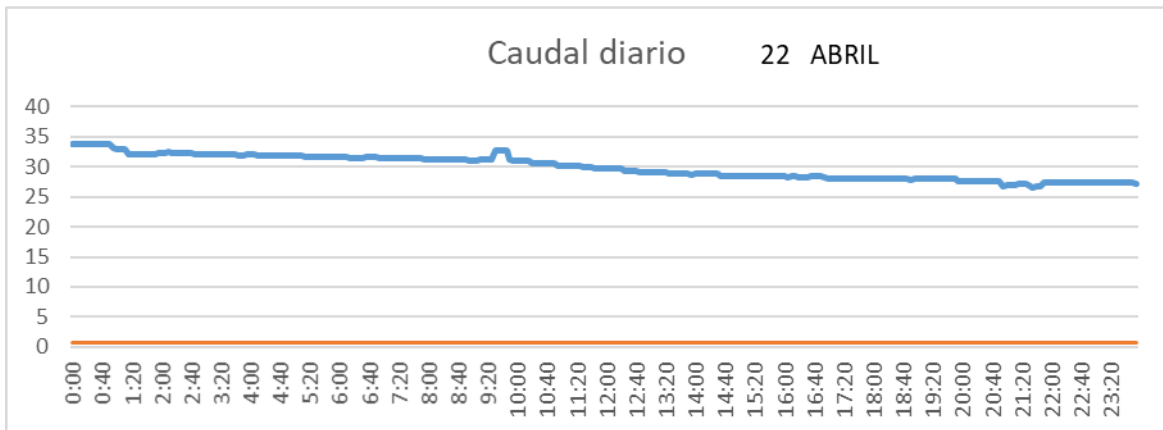
SAN LORENZO PARRILLA



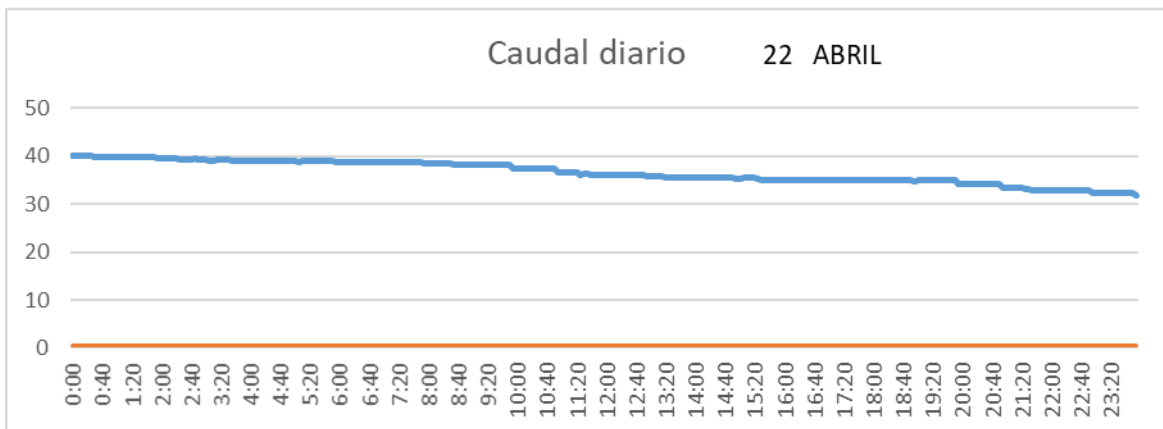
SALIDA TOBA



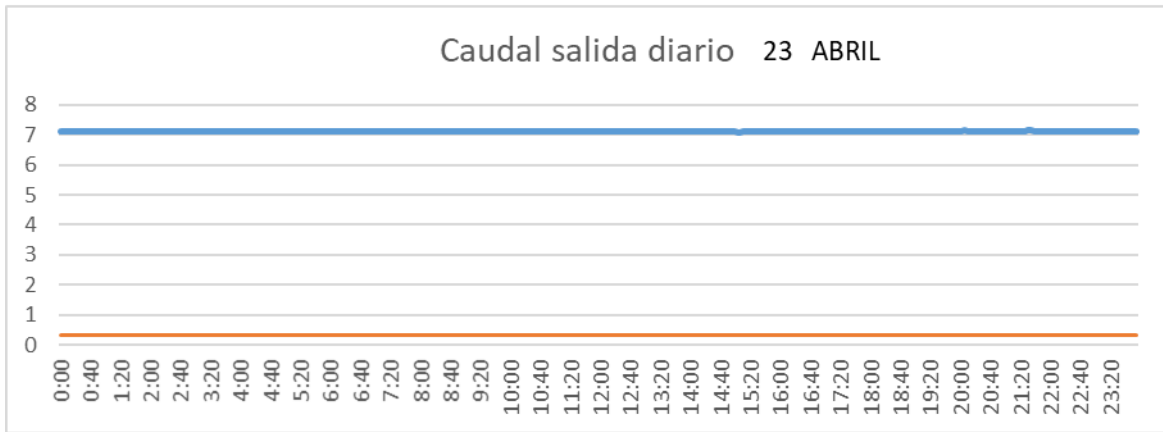
CUENCA



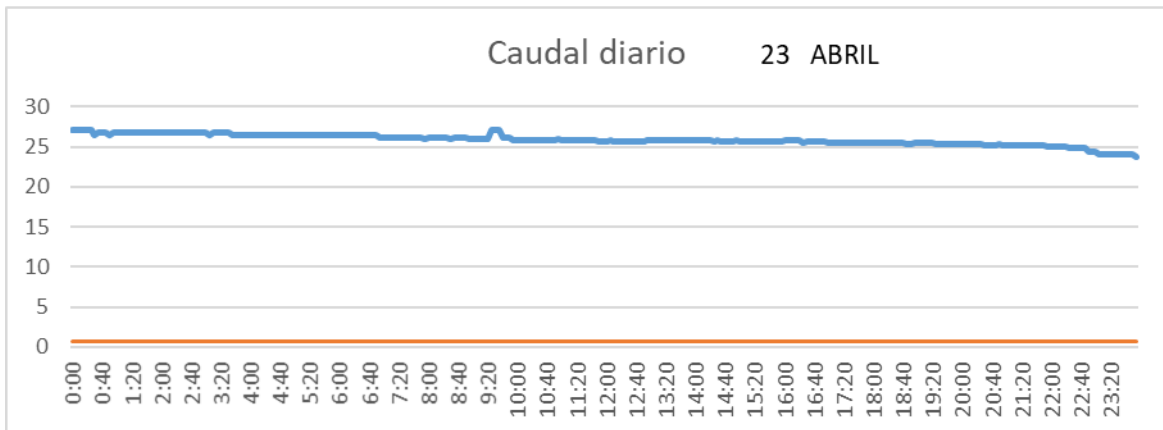
SAN LORENZO PARRILLA



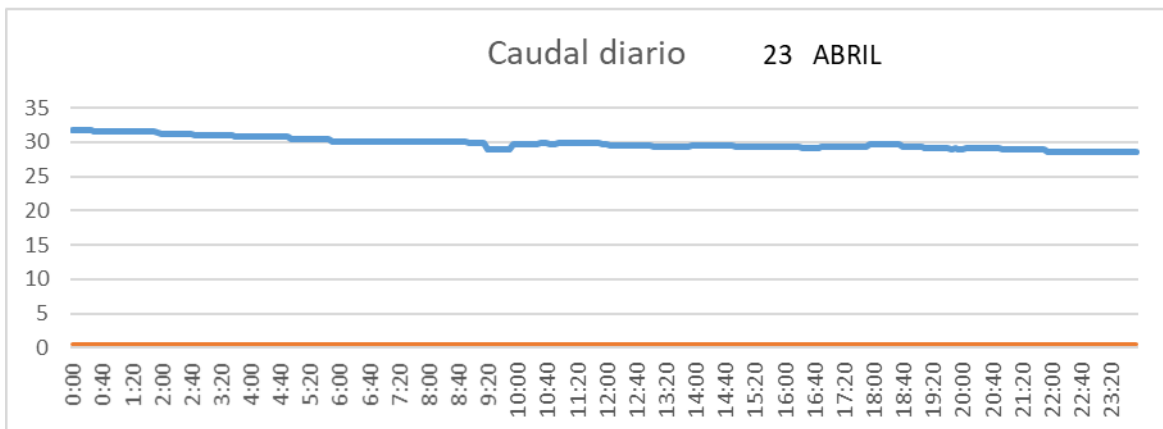
SALIDA TOBA



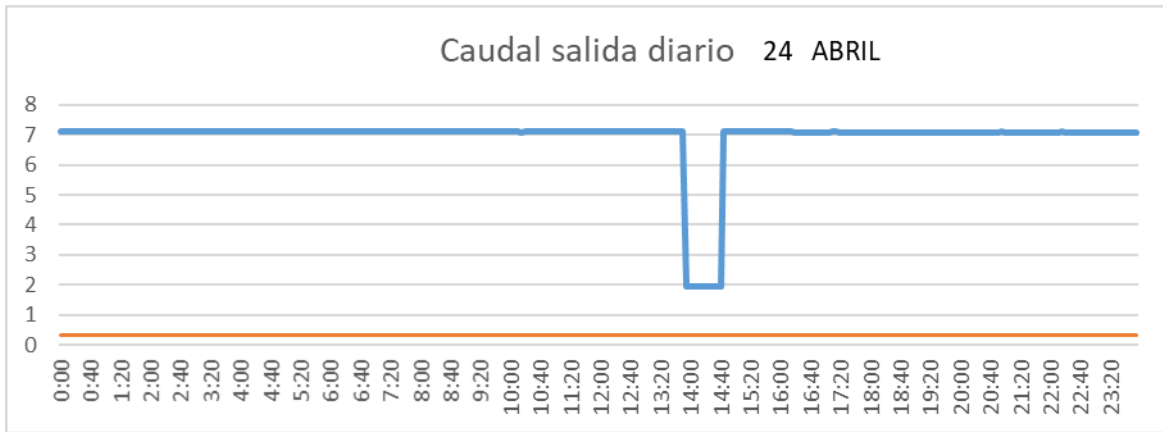
CUENCA



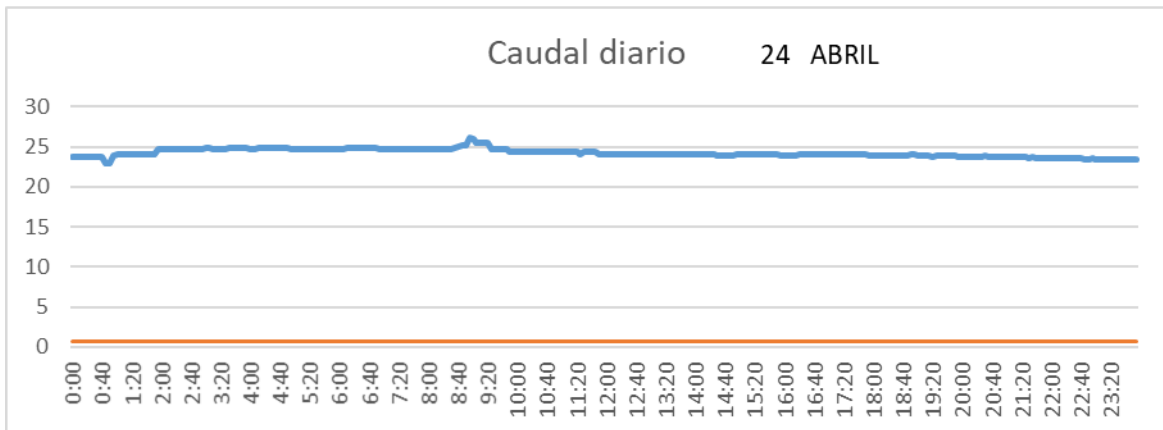
SAN LORENZO PARRILLA



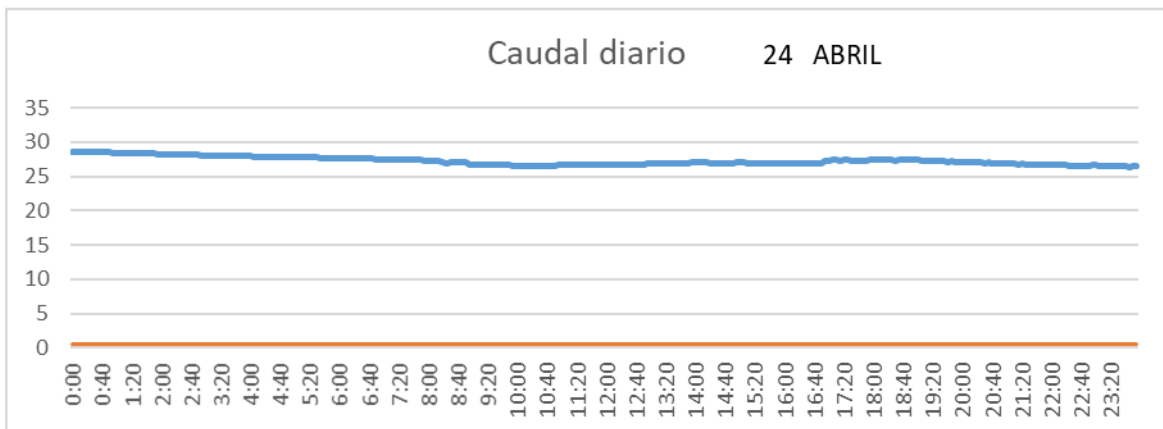
SALIDA TOBA



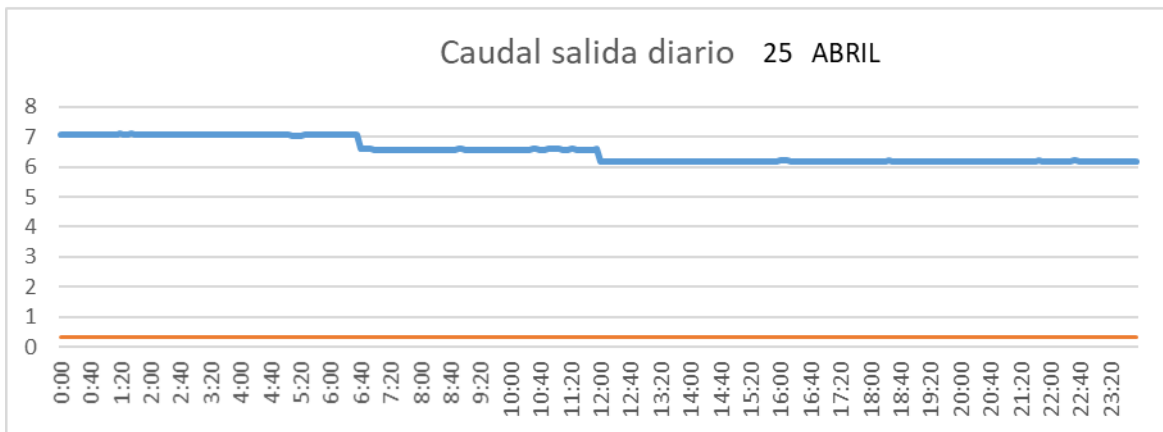
CUENCA



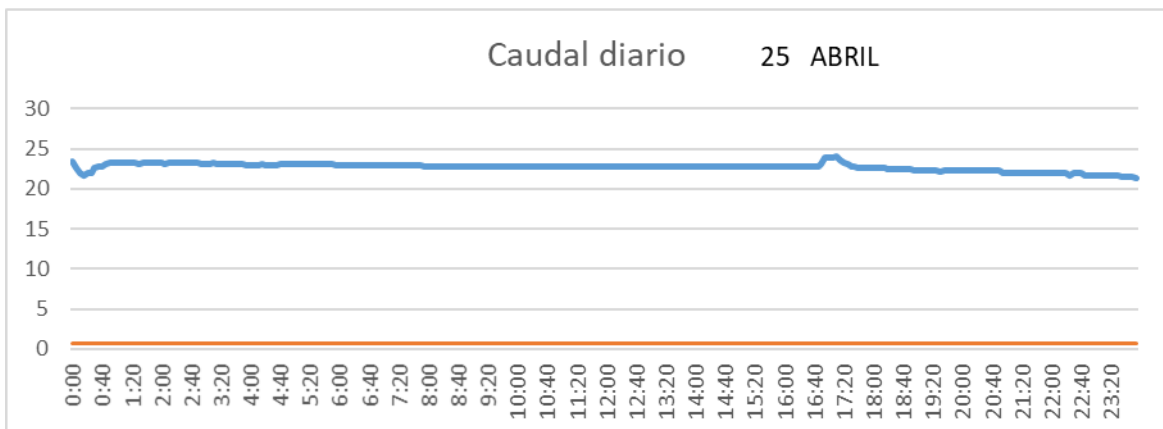
SAN LORENZO PARRILLA



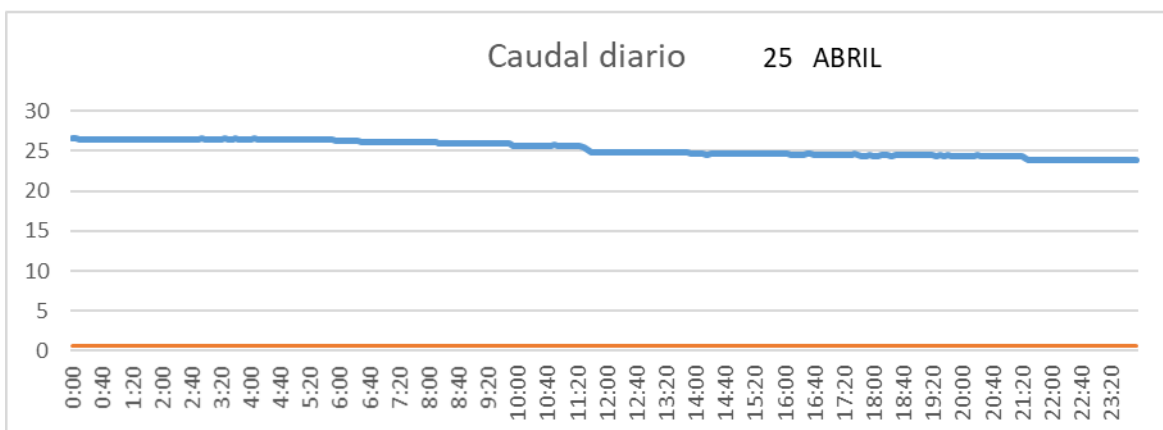
SALIDA TOBA



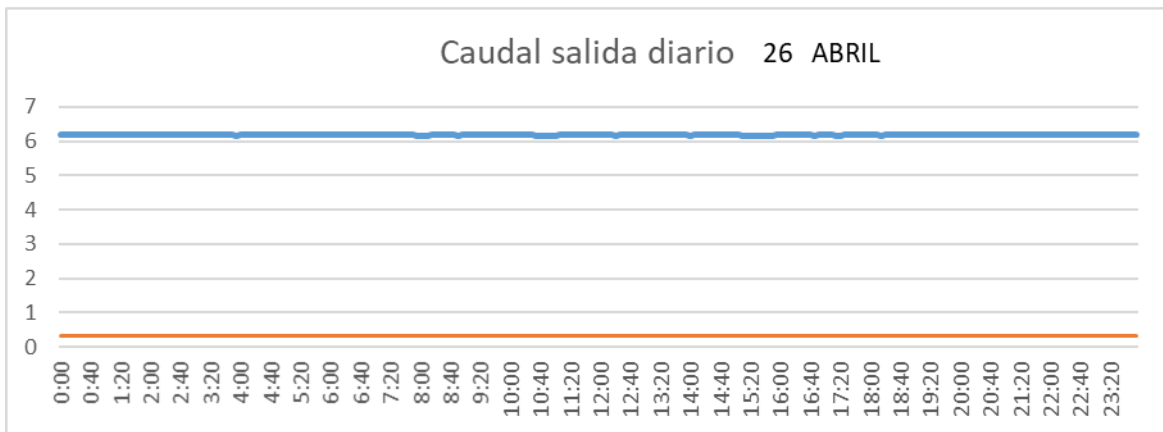
CUENCA



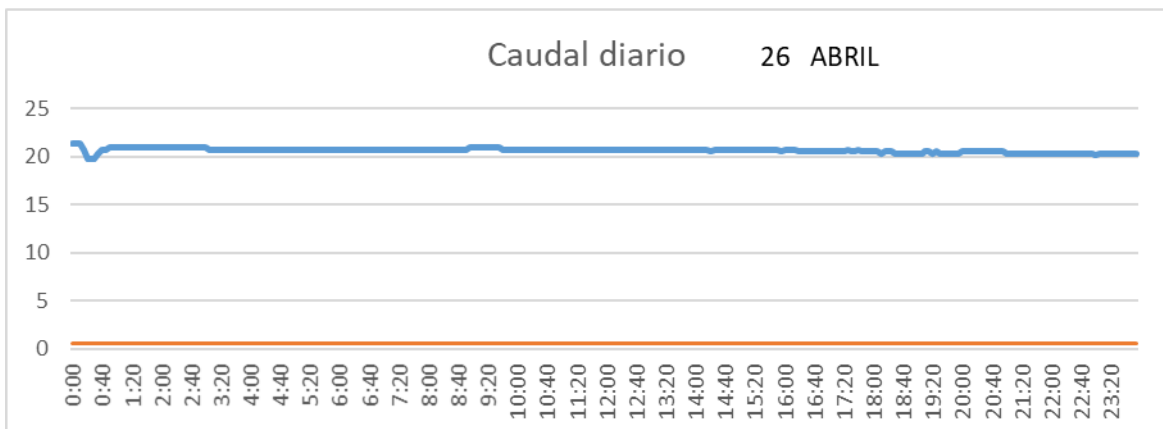
SAN LORENZO PARRILLA



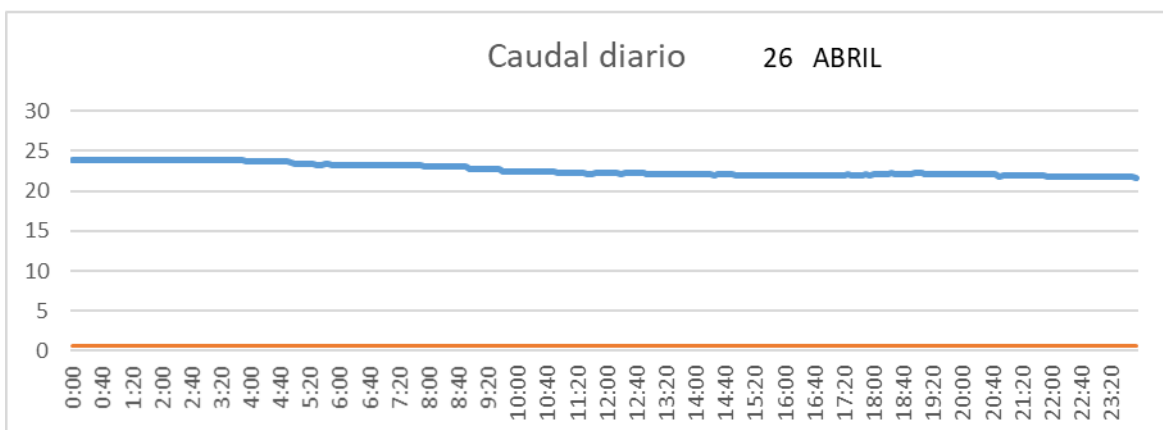
SALIDA TOBA



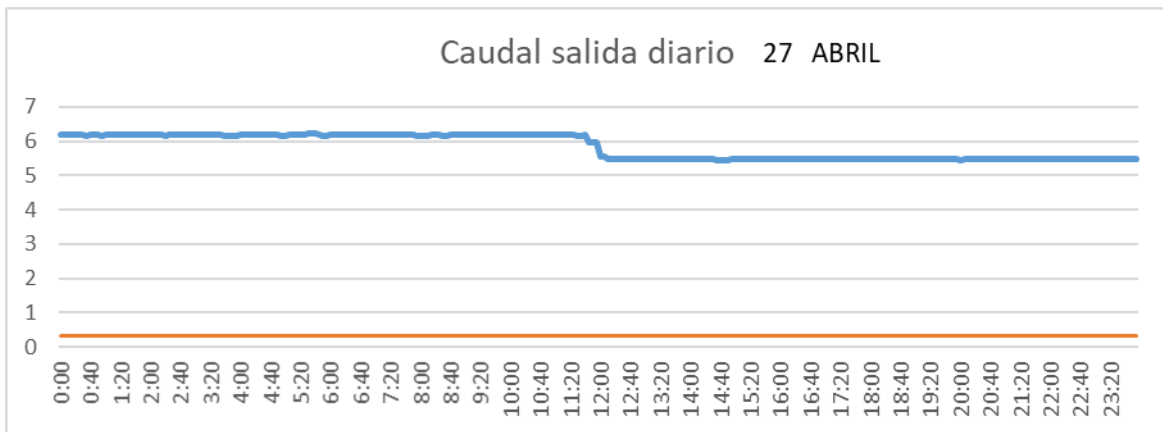
CUENCA



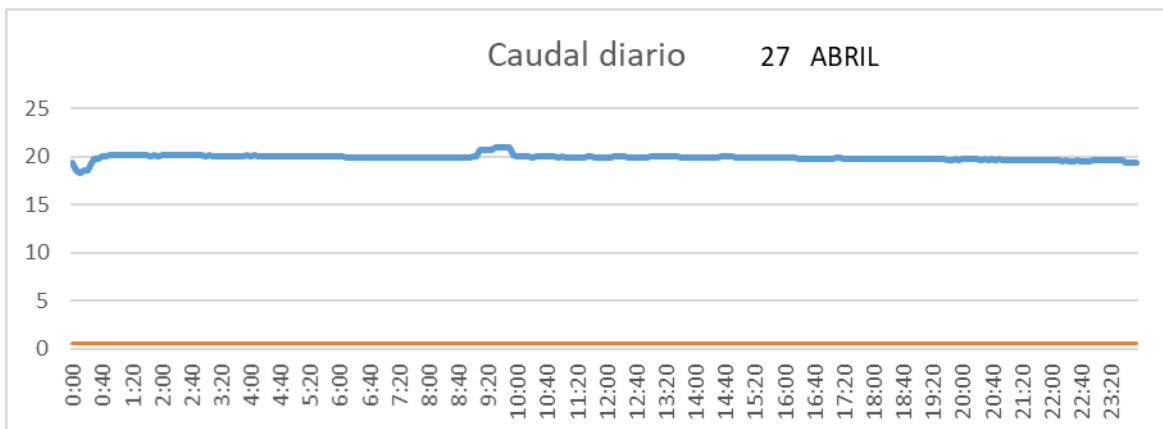
SAN LORENZO PARRILLA



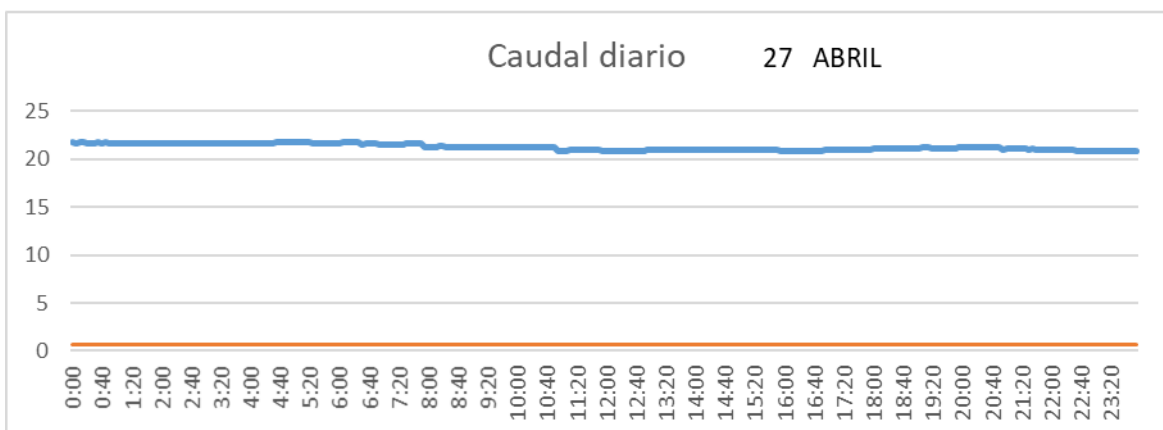
SALIDA TOBA



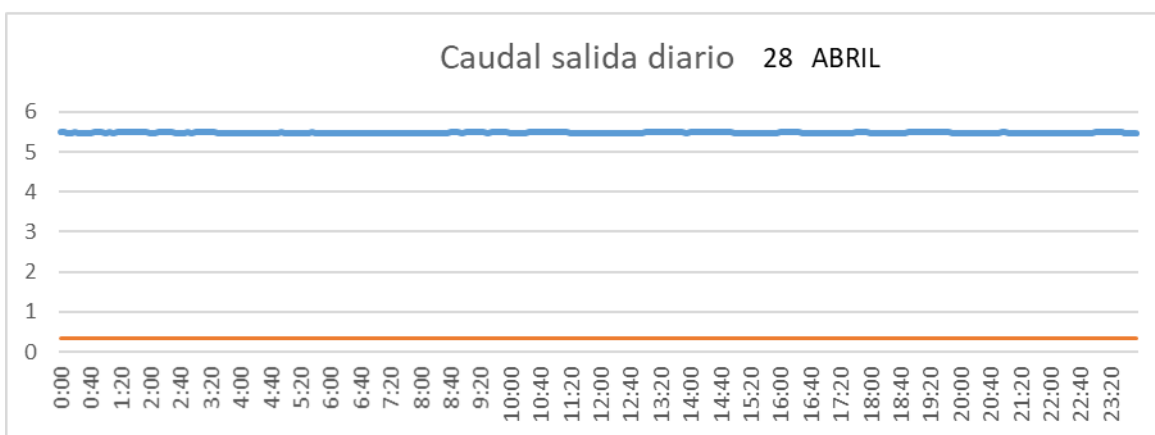
CUENCA



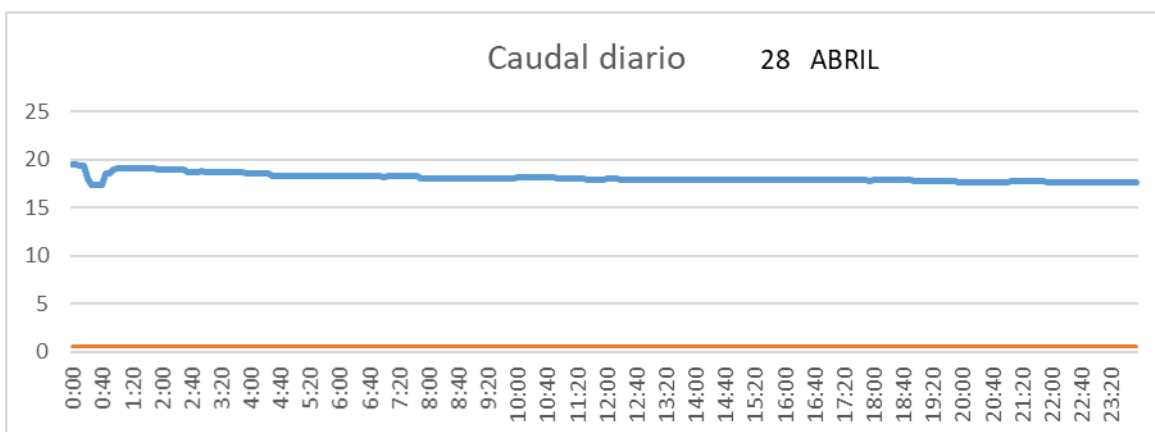
SAN LORENZO PARRILLA



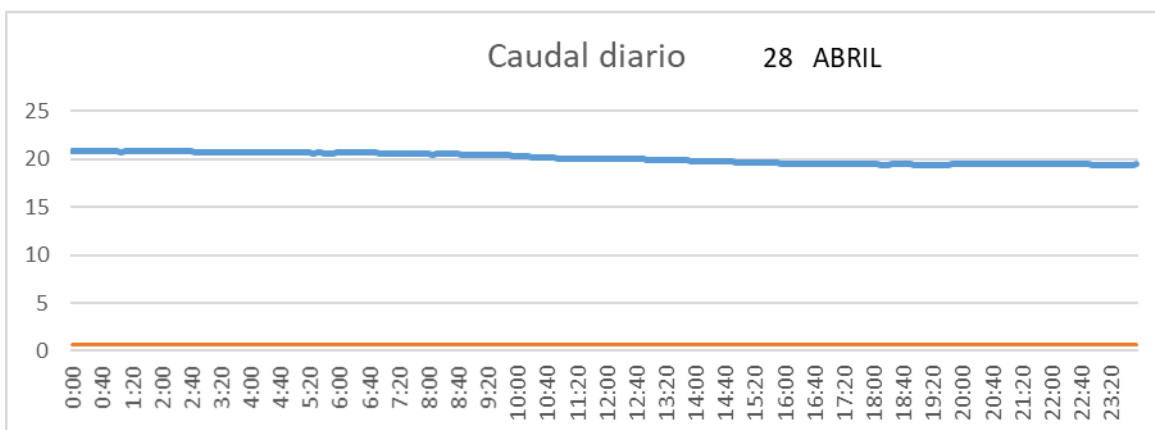
SALIDA TOBA



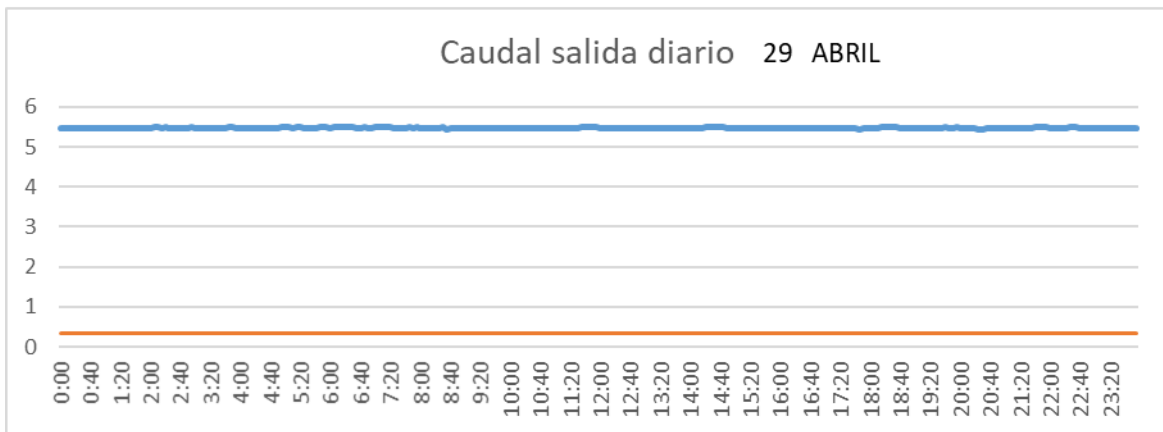
CUENCA



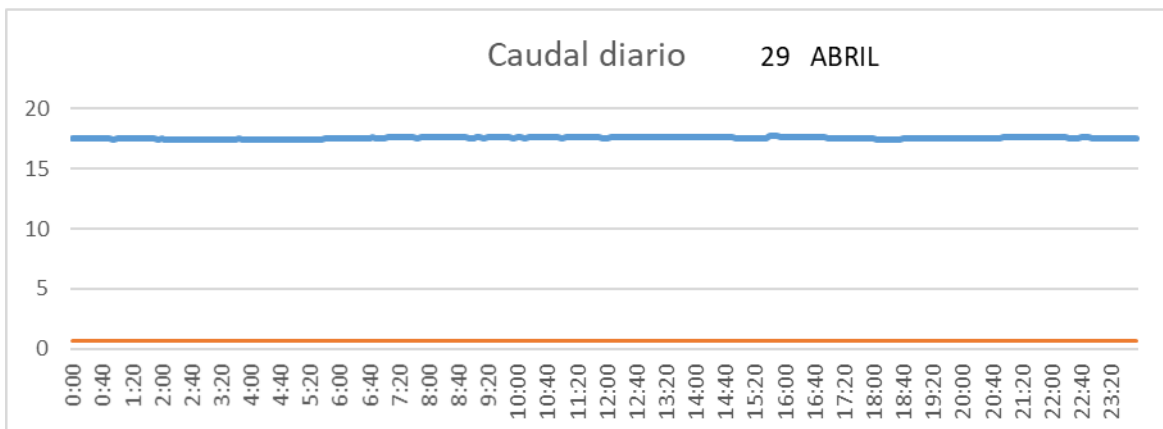
SAN LORENZO PARRILLA



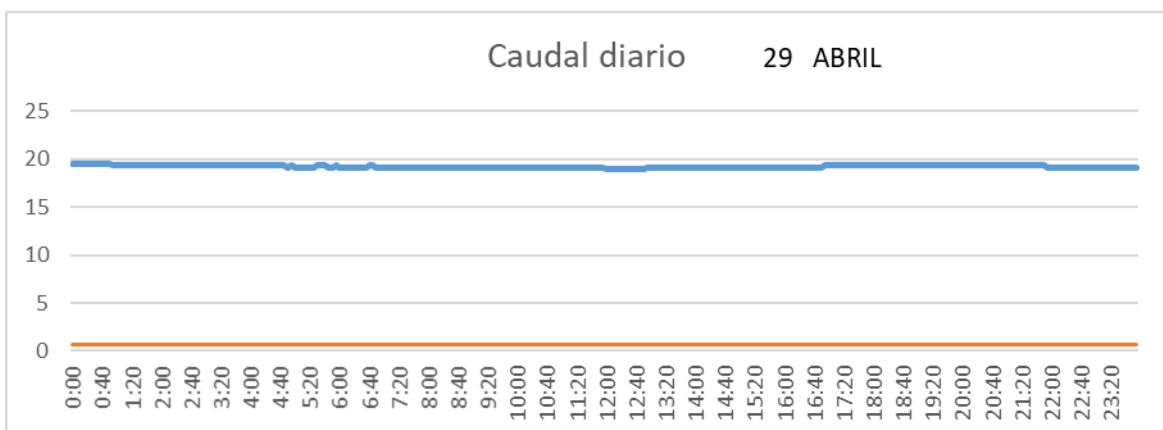
SALIDA TOBA



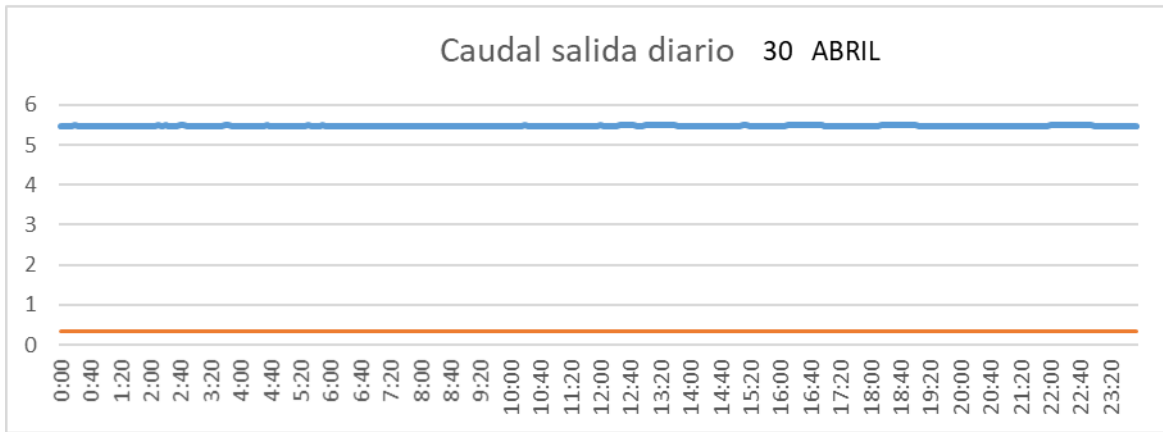
CUENCA



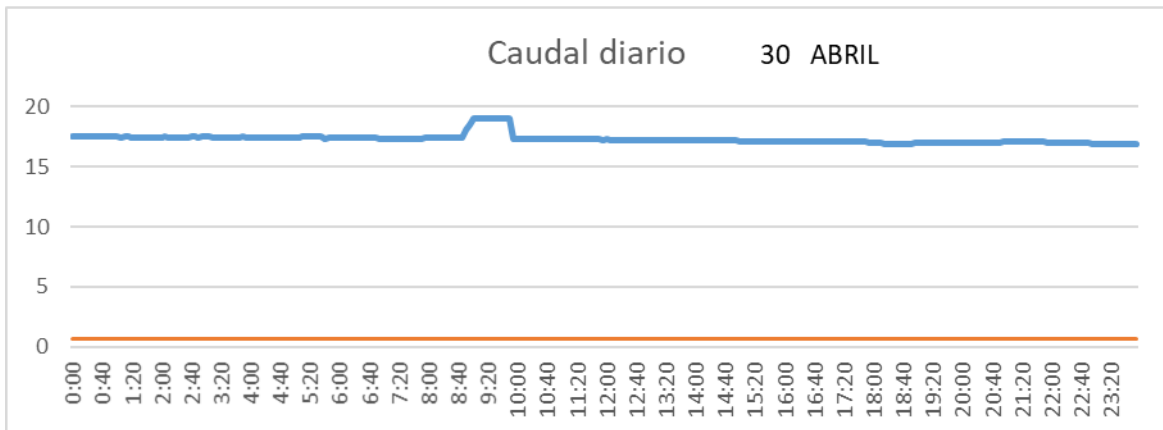
SAN LORENZO PARRILLA



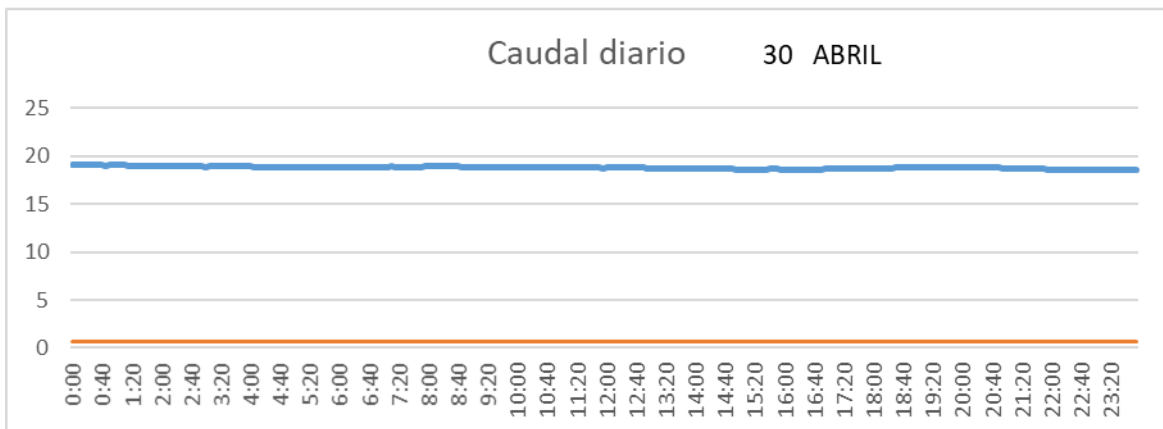
SALIDA TOBA



CUENCA

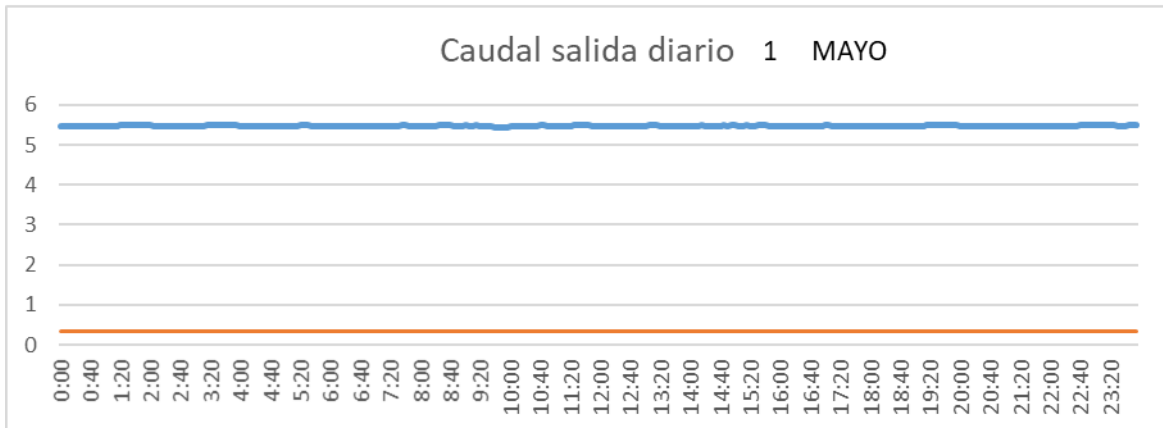


SAN LORENZO PARRILLA

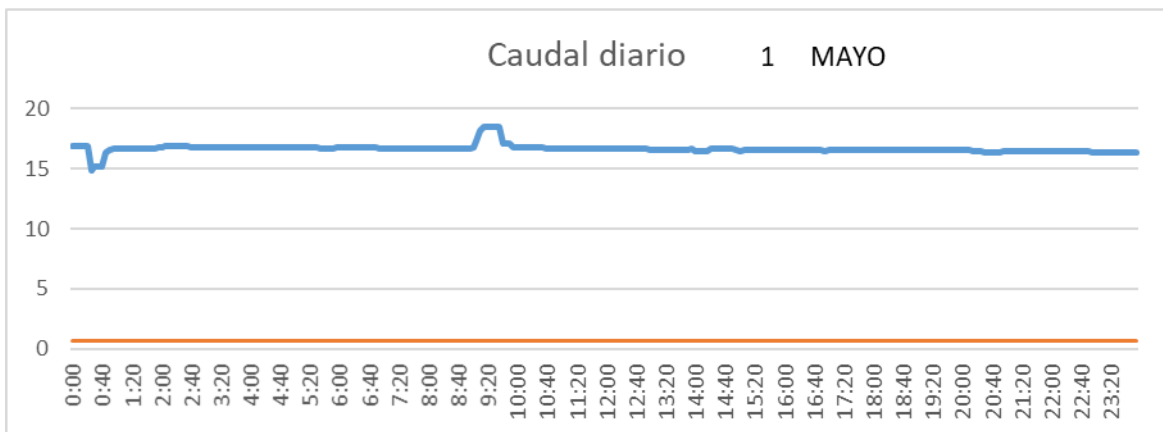


2.3.5 Mayo

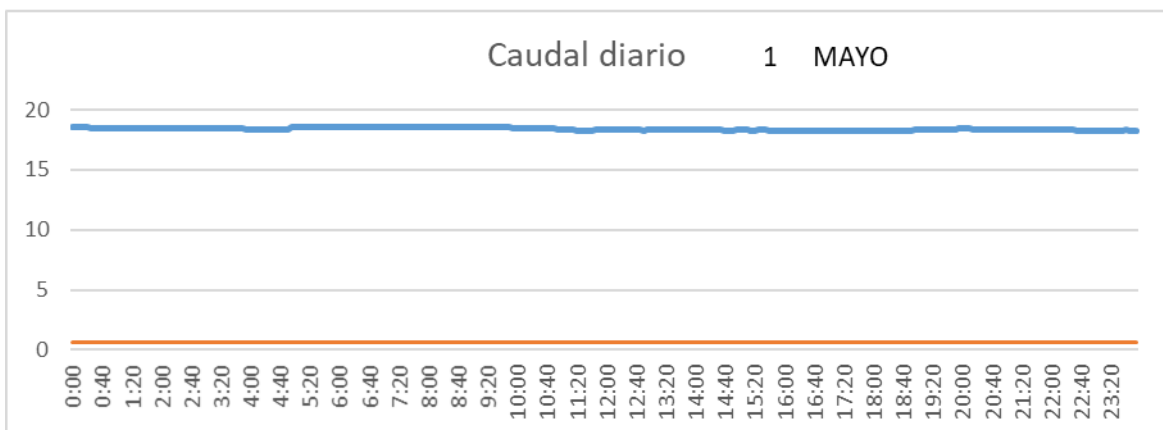
SALIDA TOBA



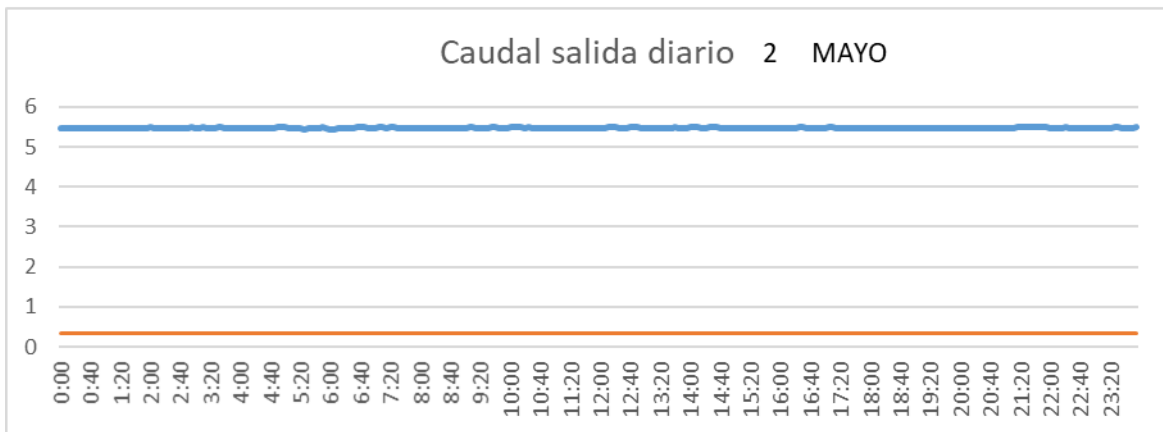
CUENCA



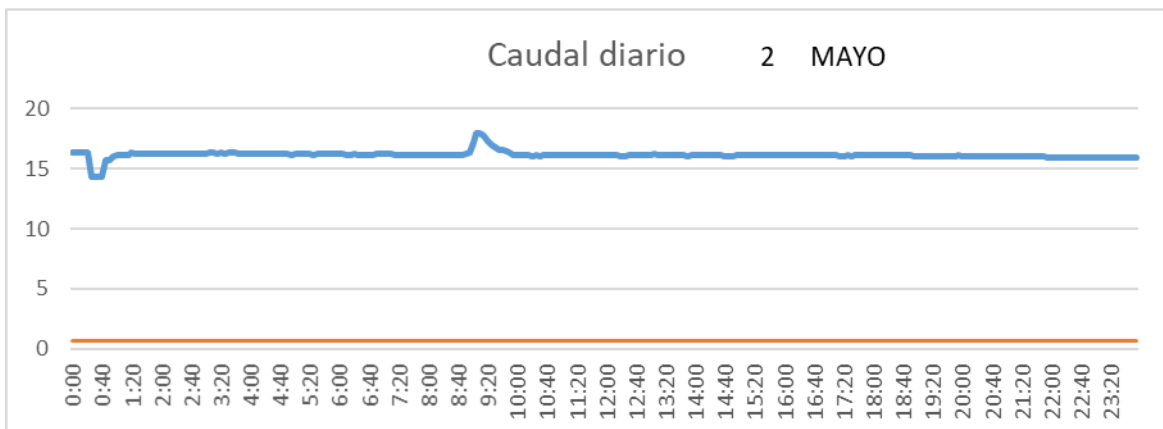
SAN LORENZO PARRILLA



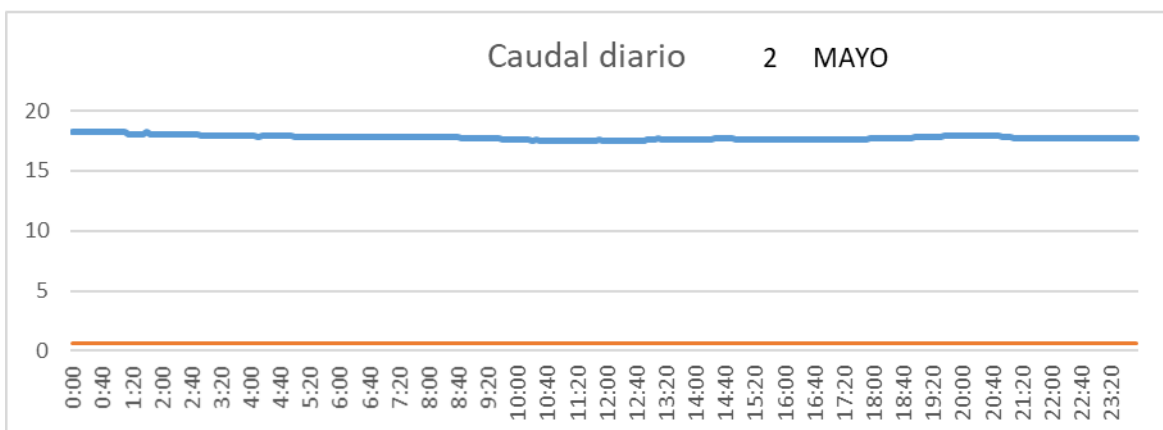
SALIDA TOBA



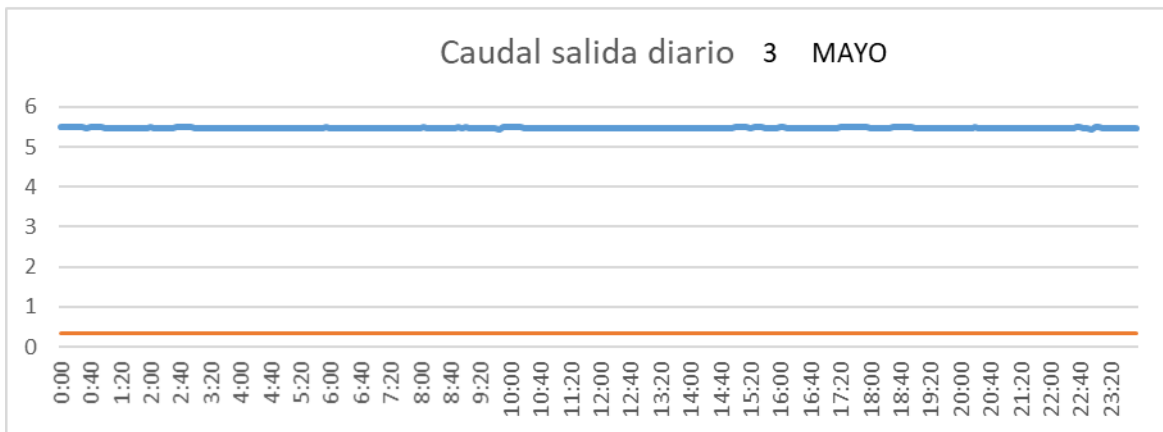
CUENCA



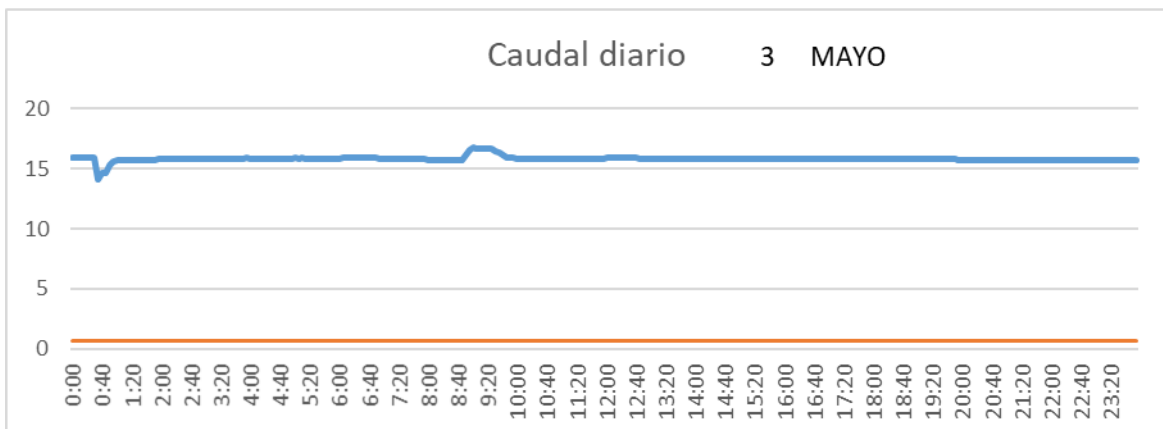
SAN LORENZO PARRILLA



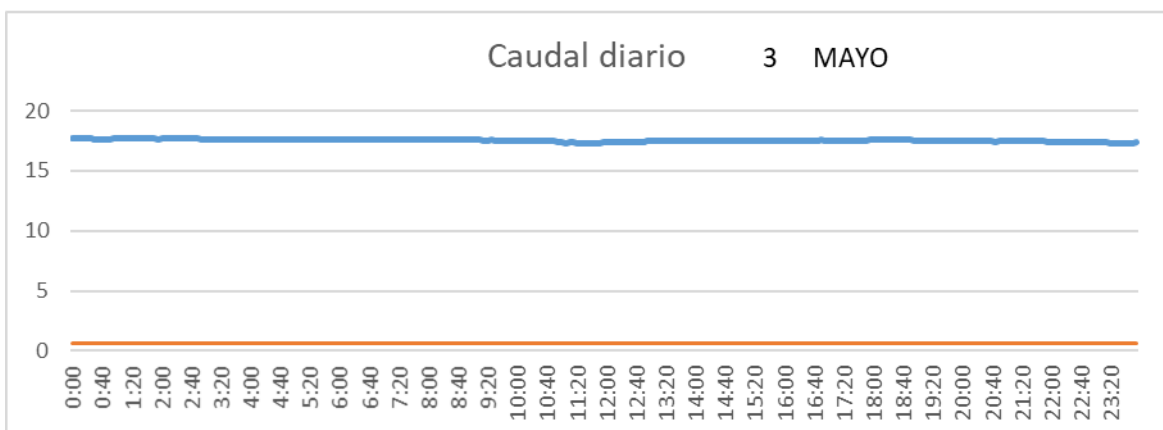
SALIDA TOBA



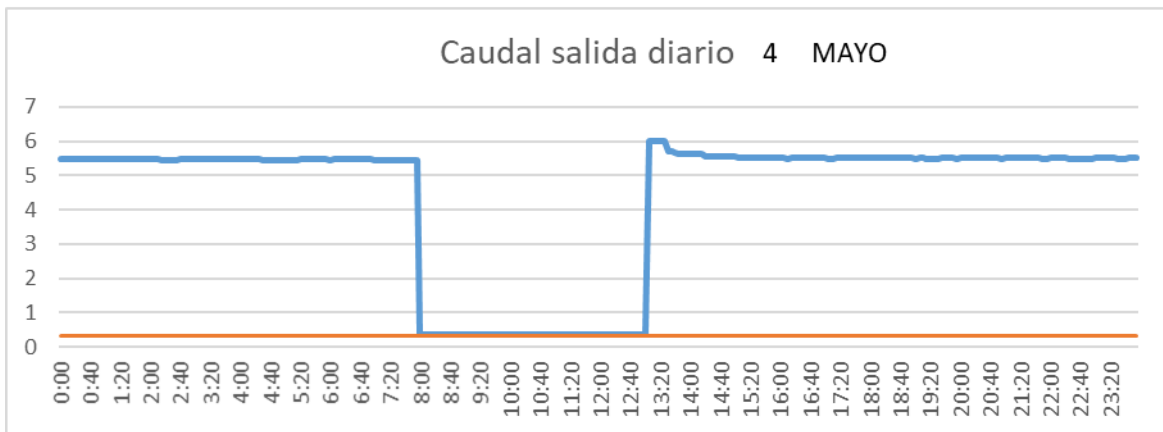
CUENCA



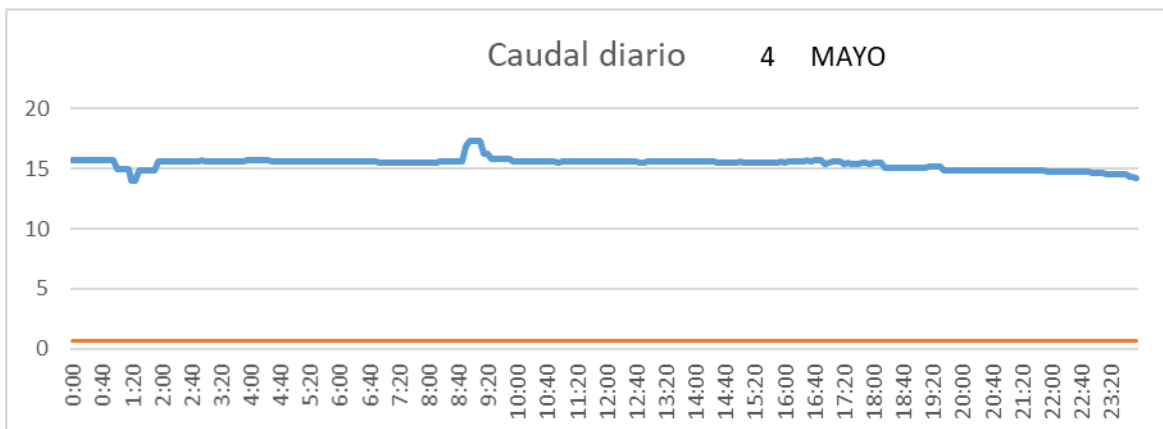
SAN LORENZO PARRILLA



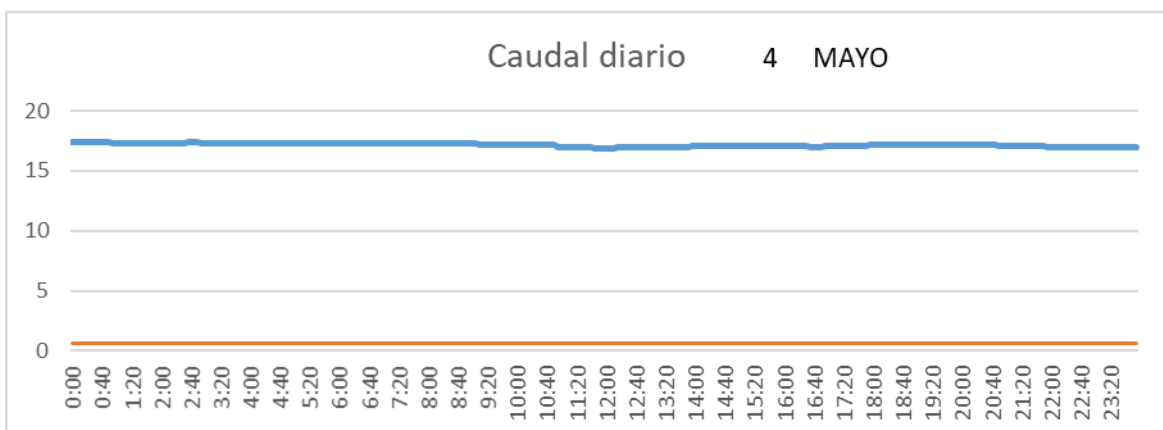
SALIDA TOBA



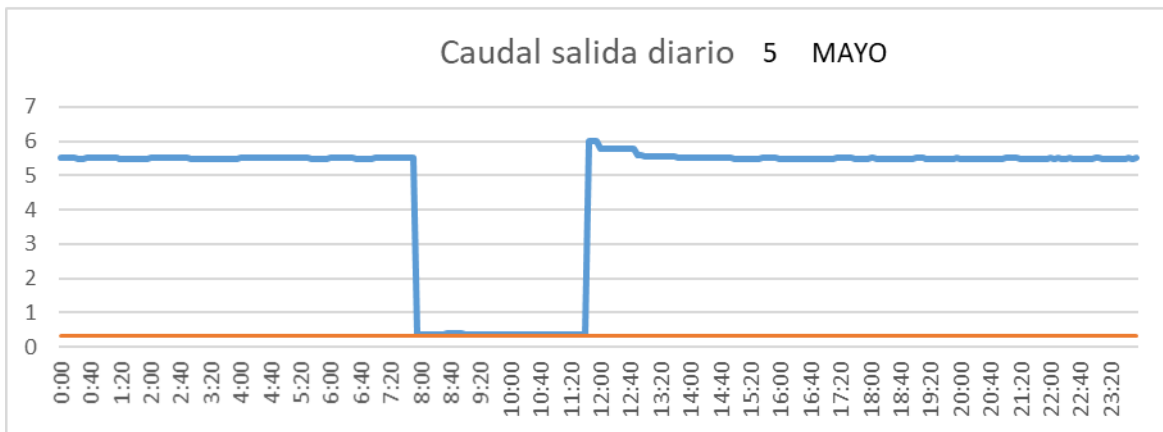
CUENCA



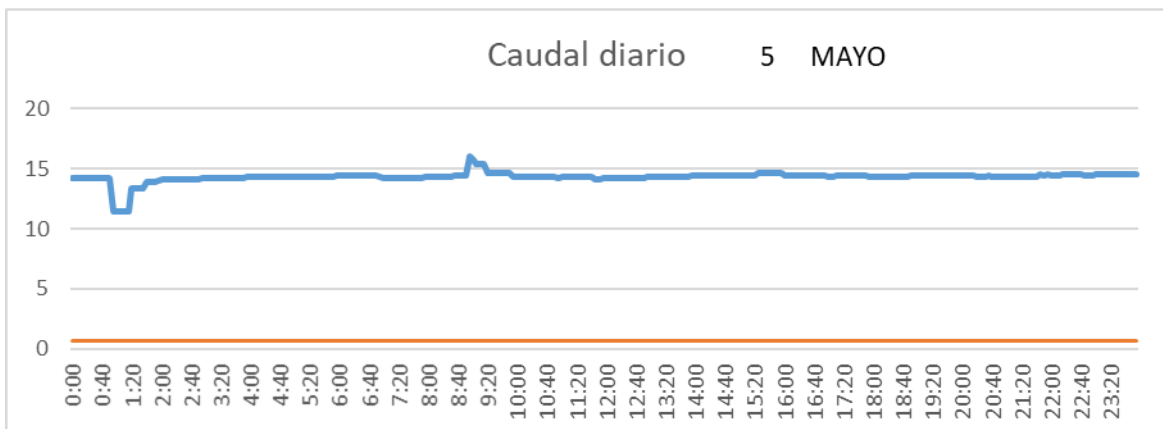
SAN LORENZO PARRILLA



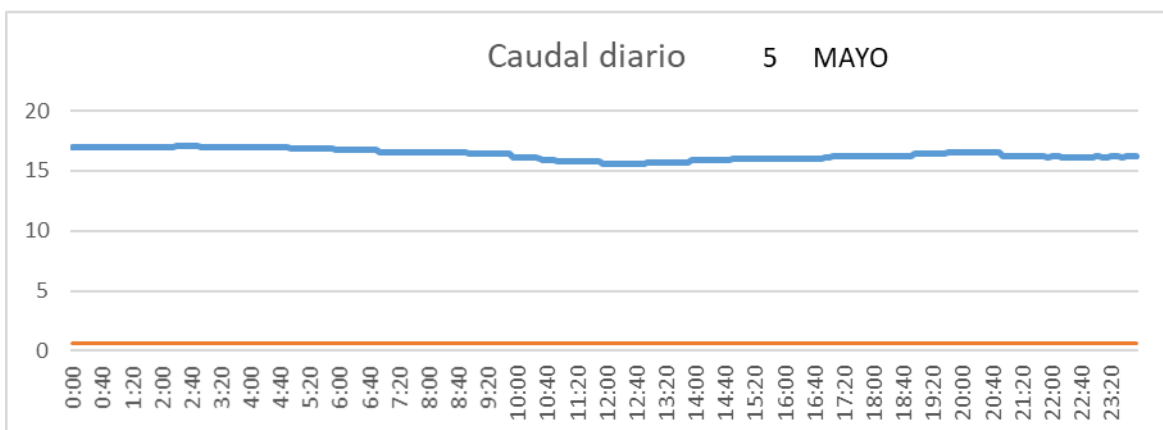
SALIDA TOBA



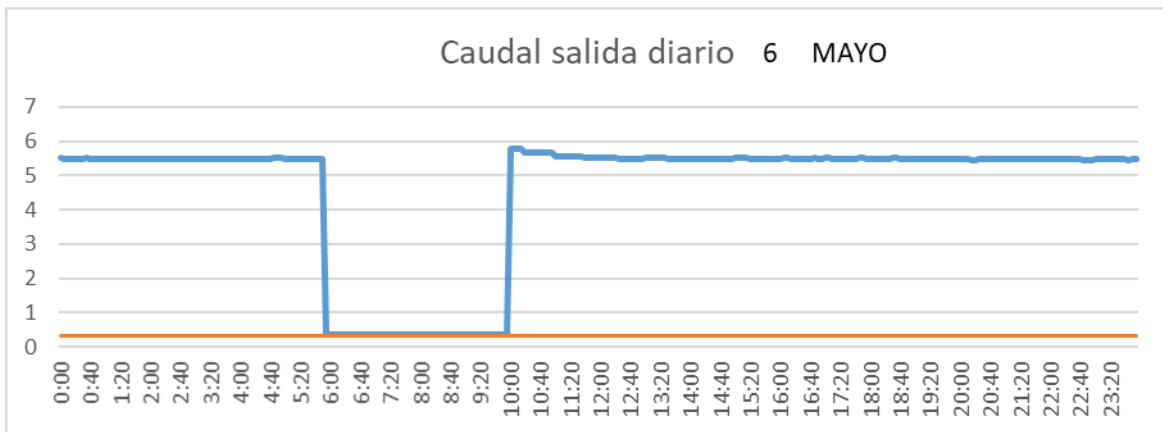
CUENCA



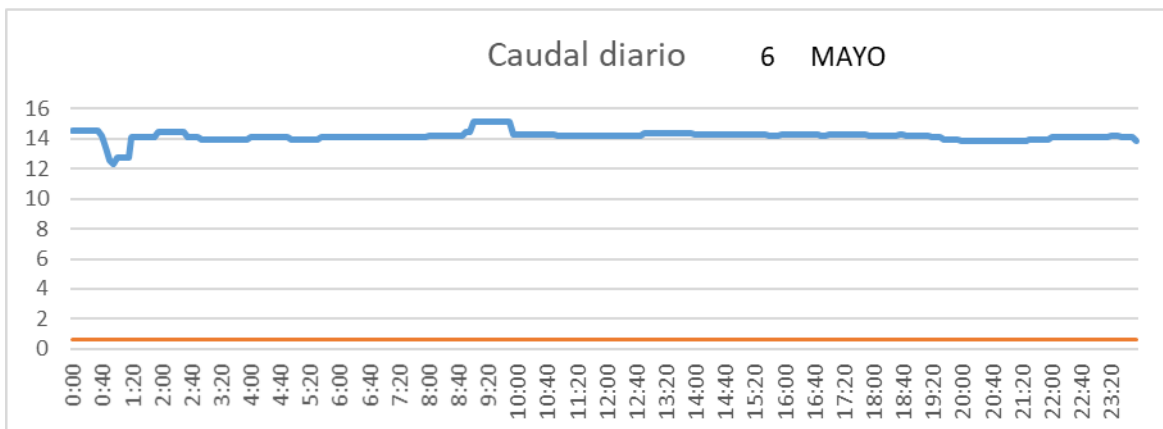
SAN LORENZO PARRILLA



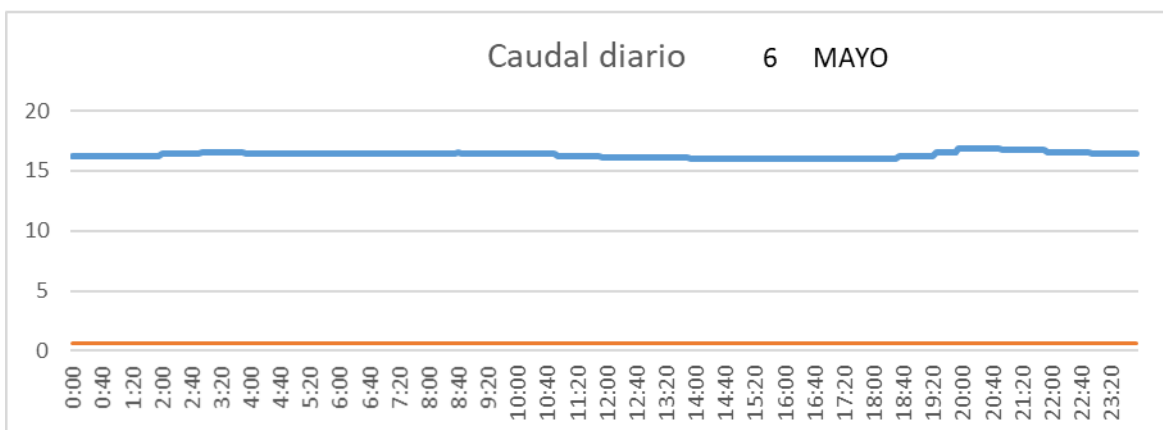
SALIDA TOBA



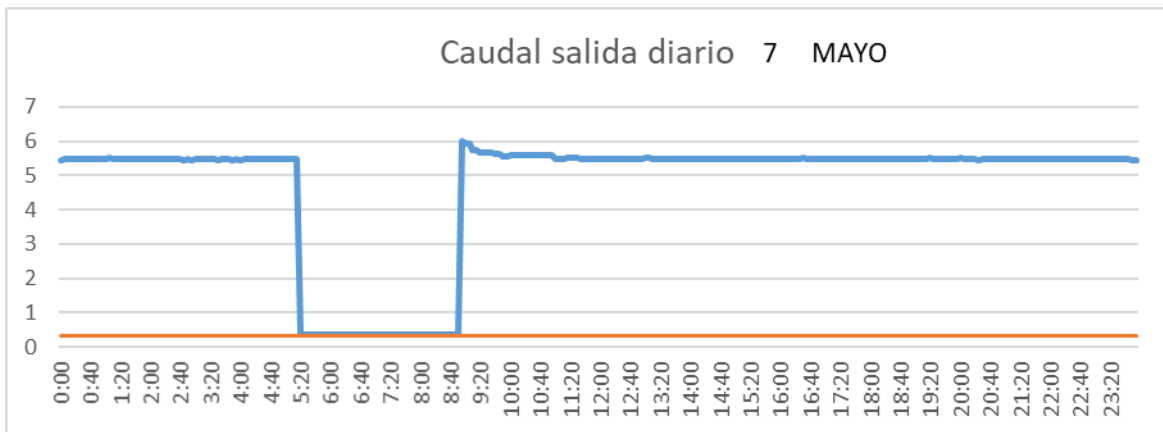
CUENCA



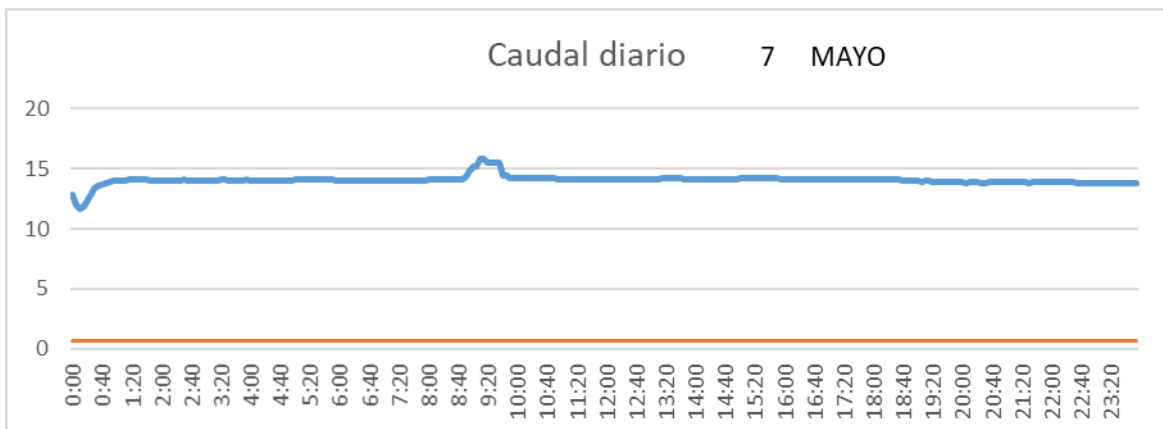
SAN LORENZO PARRILLA



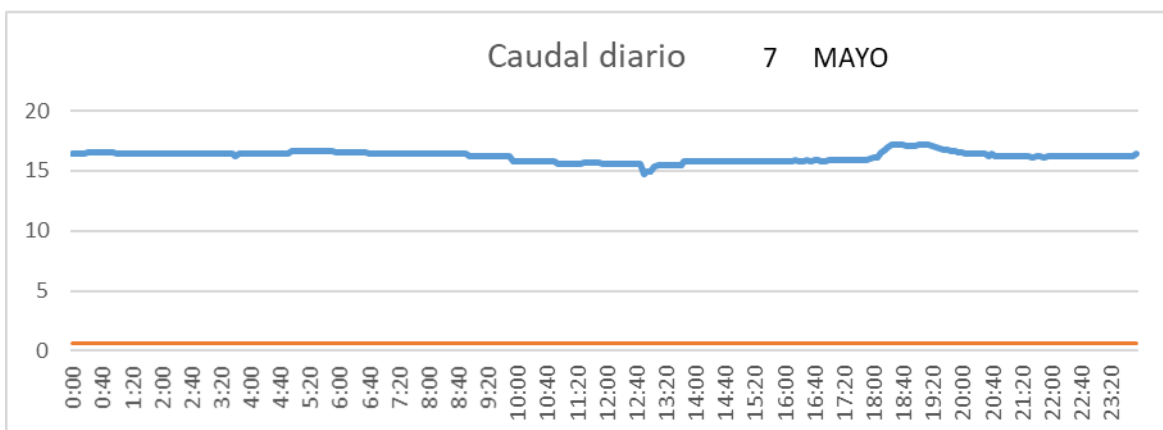
SALIDA TOBA



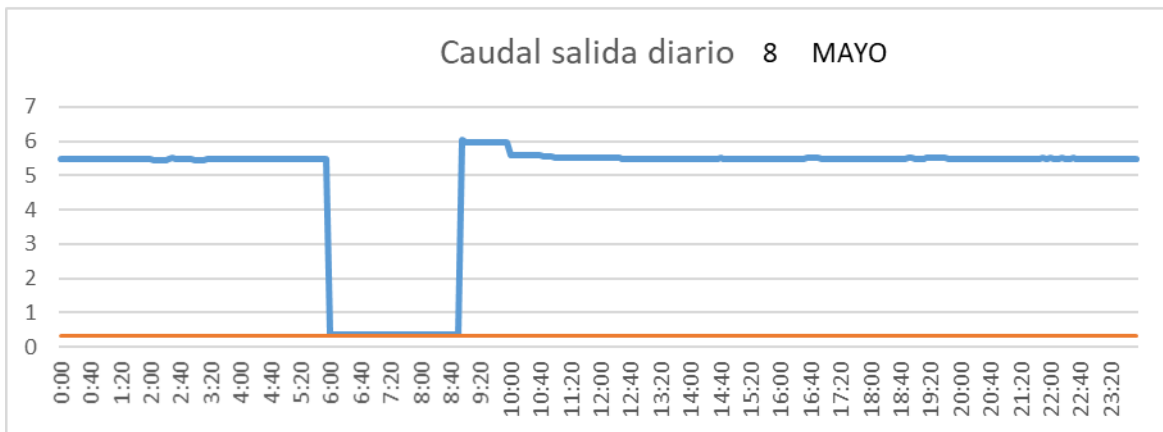
CUENCA



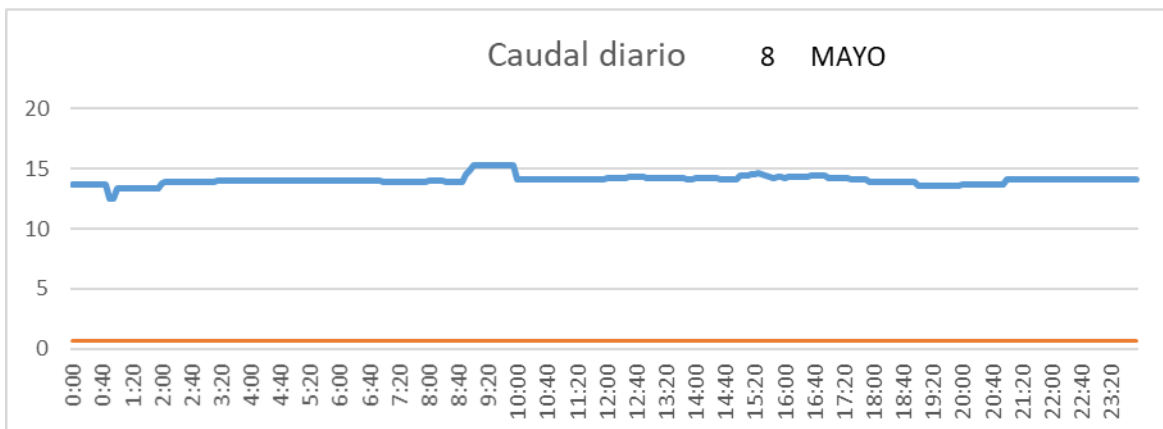
SAN LORENZO PARRILLA



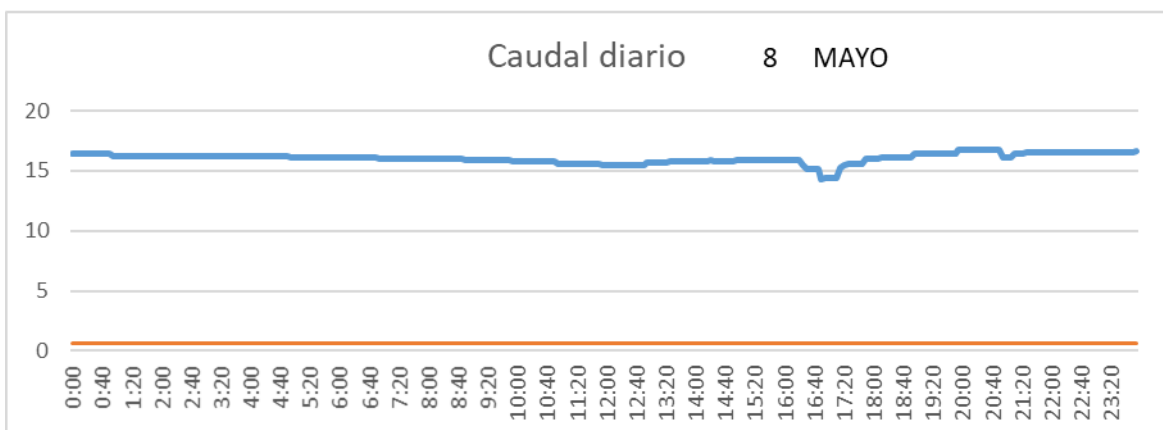
SALIDA TOBA



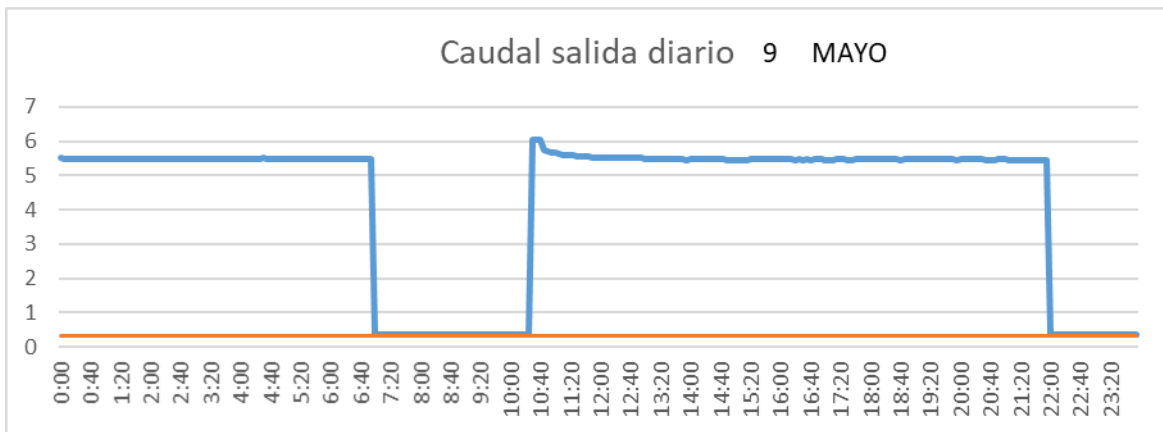
CUENCA



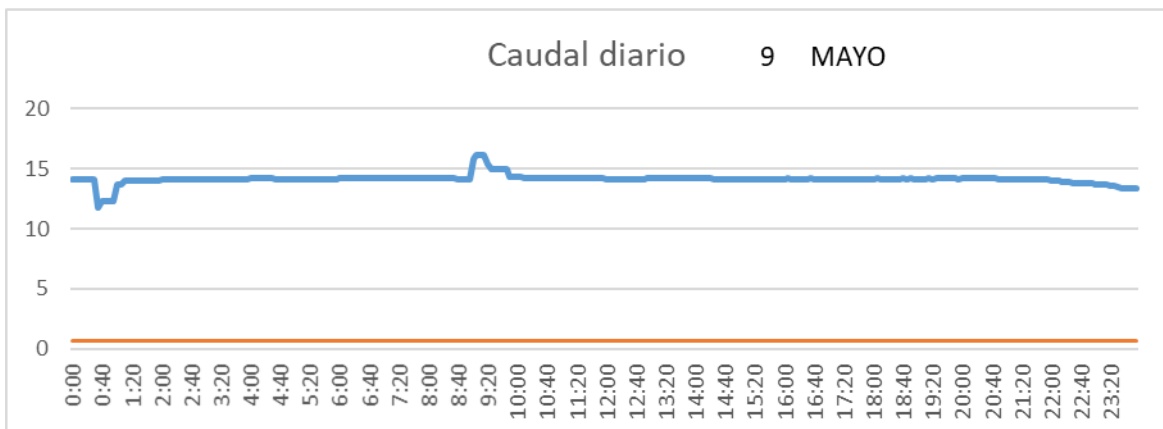
SAN LORENZO PARRILLA



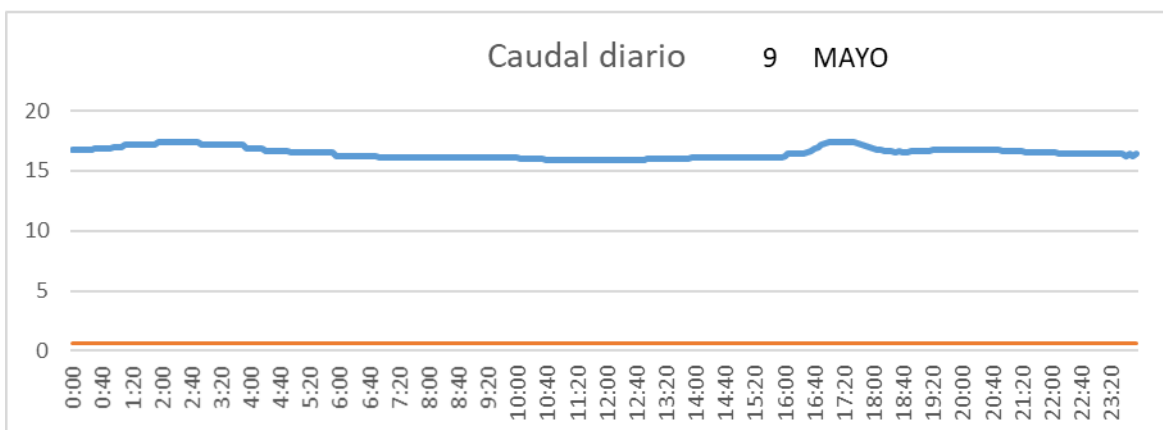
SALIDA TOBA



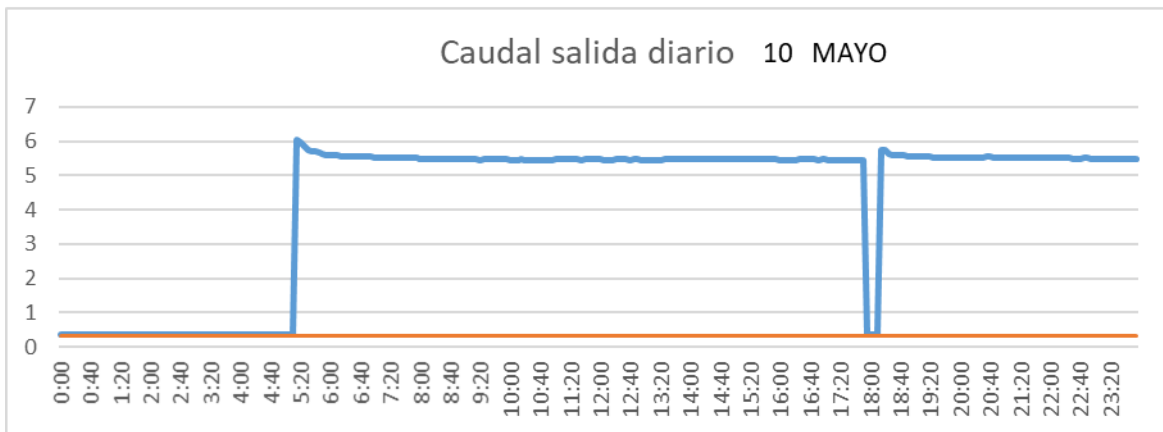
CUENCA



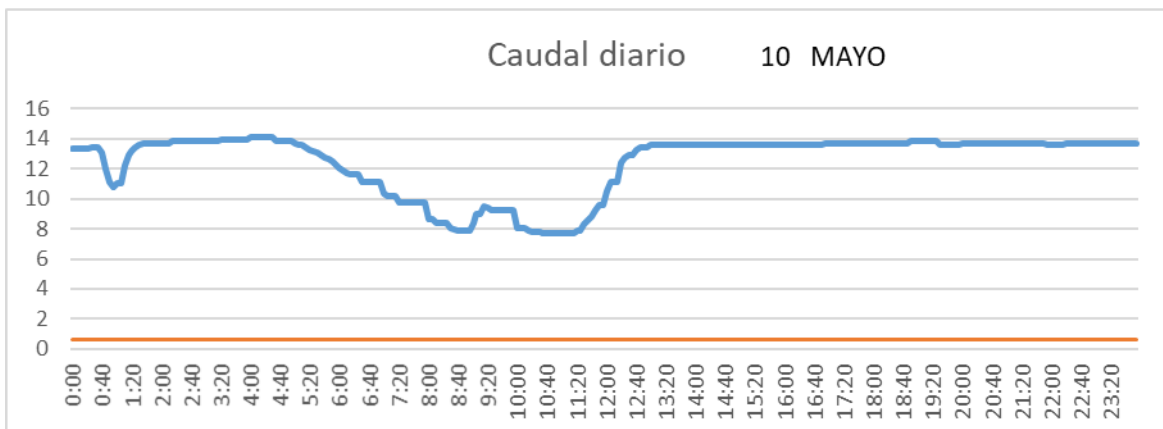
SAN LORENZO PARRILLA



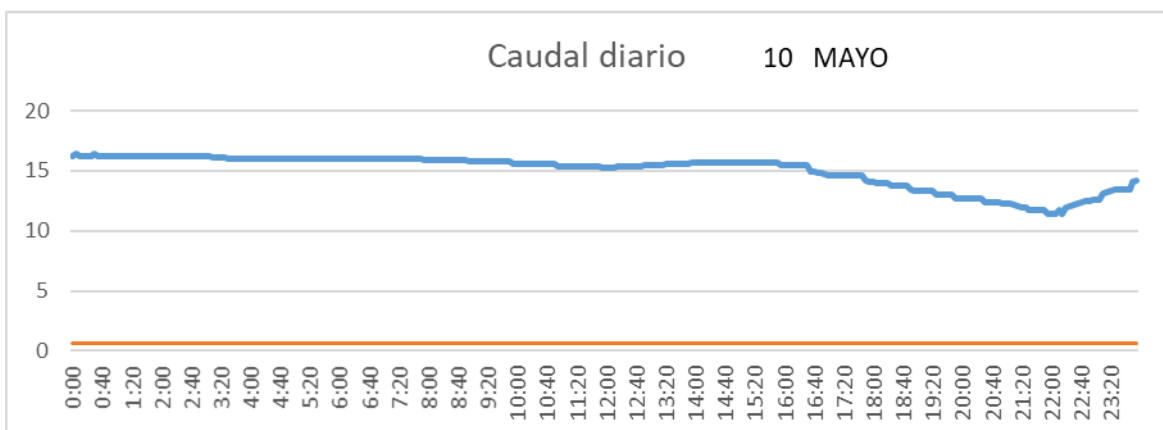
SALIDA TOBA



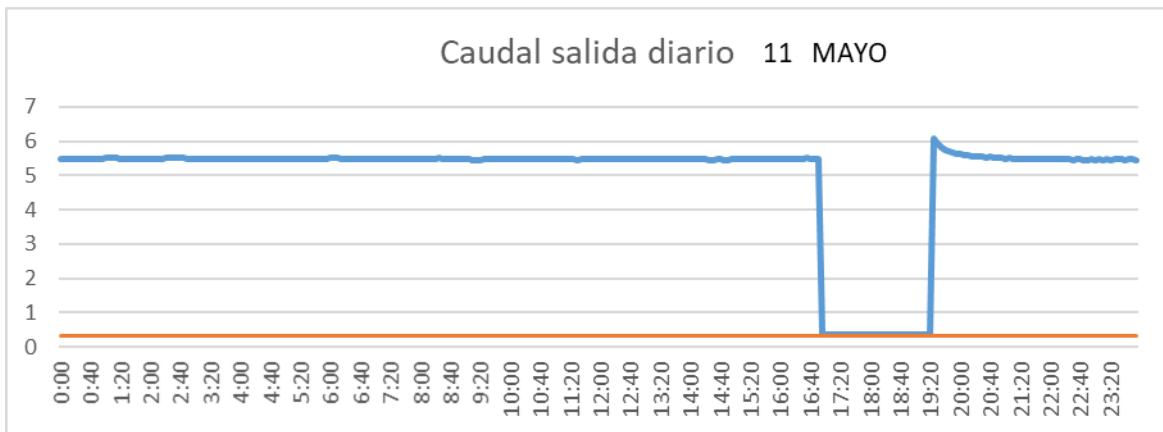
CUENCA



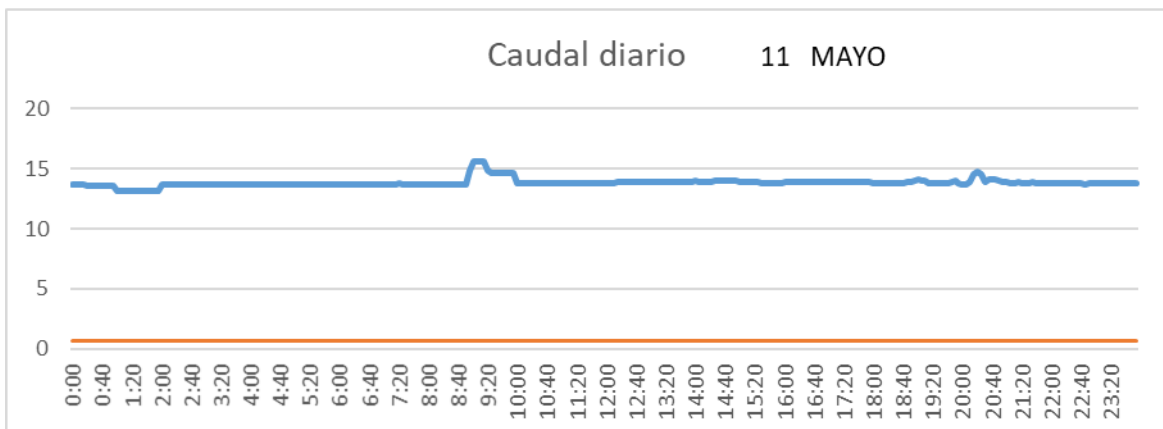
SAN LORENZO PARRILLA



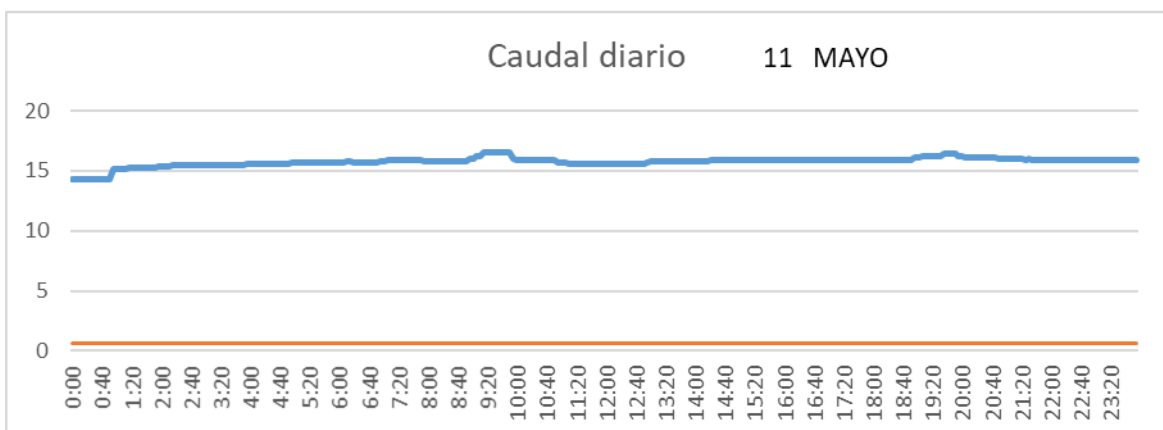
SALIDA TOBA



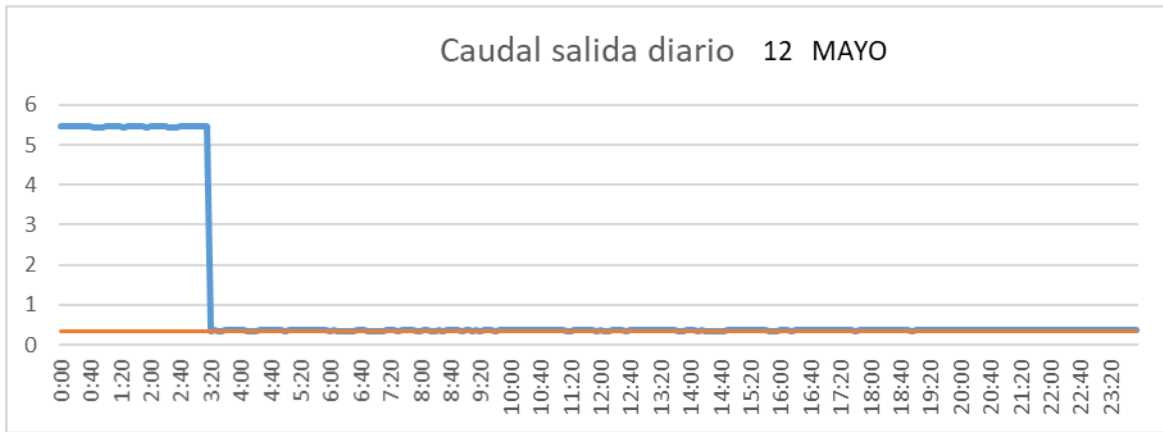
CUENCA



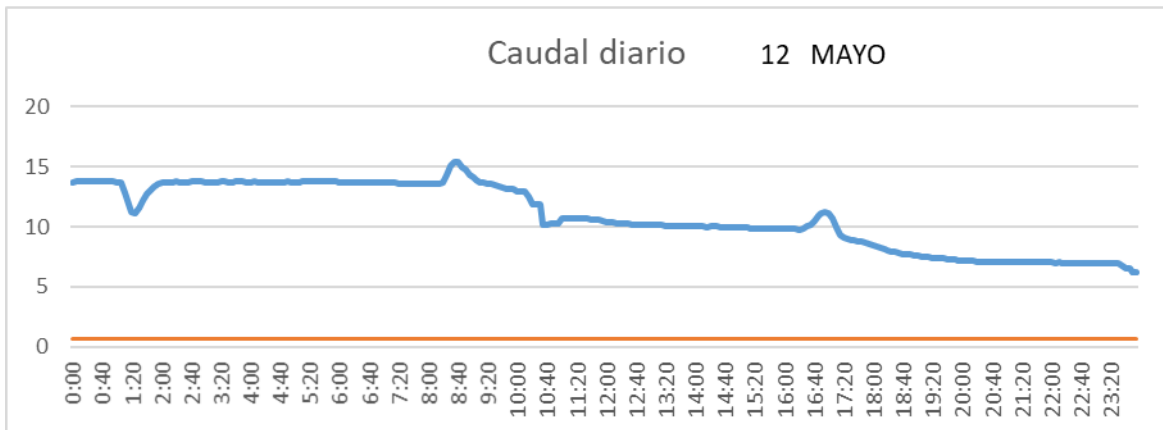
SAN LORENZO PARRILLA



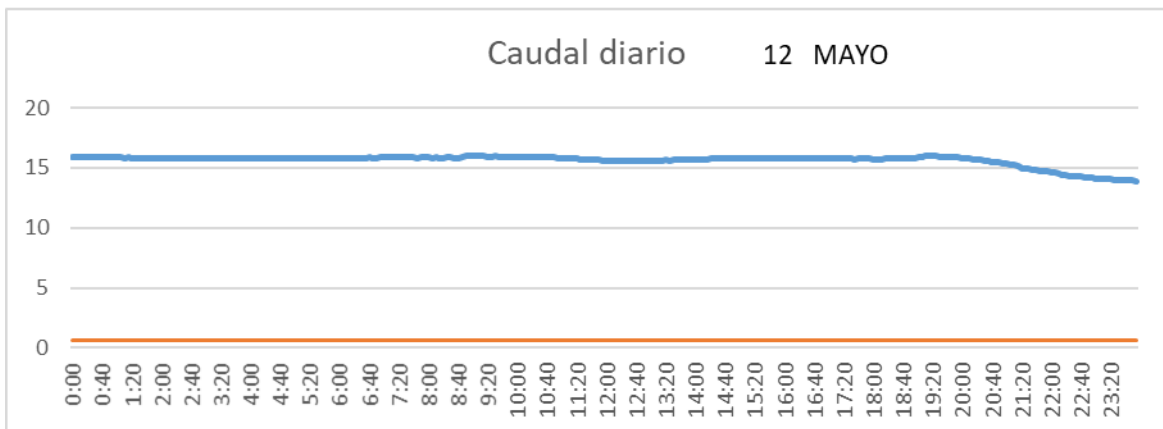
SALIDA TOBA



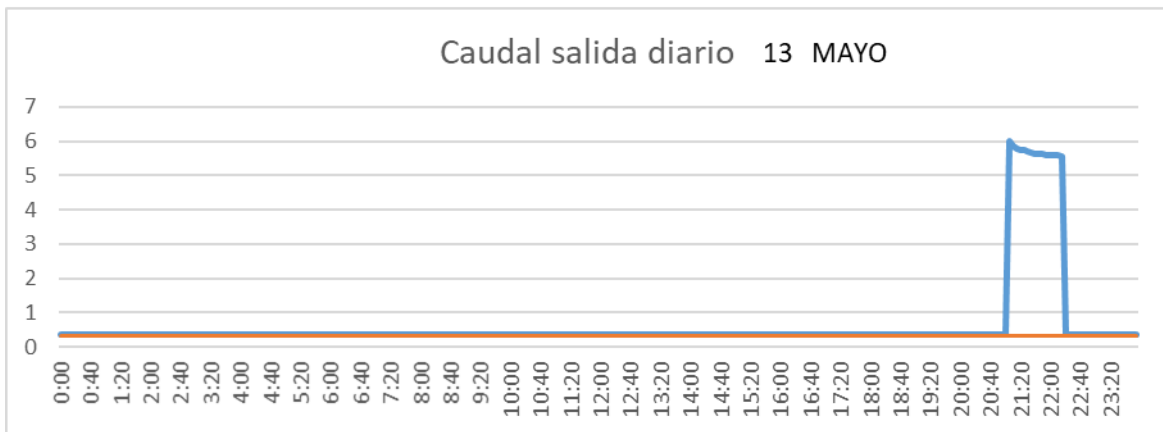
CUENCA



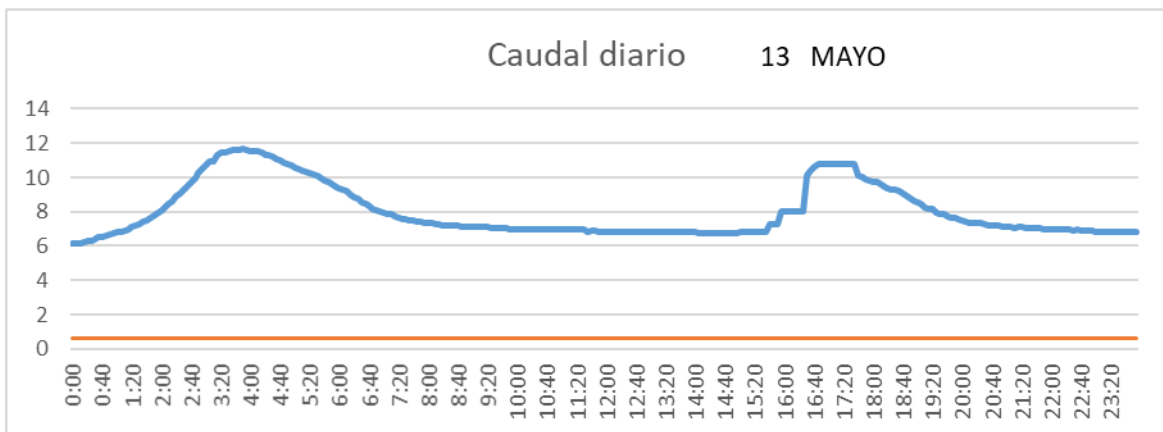
SAN LORENZO PARRILLA



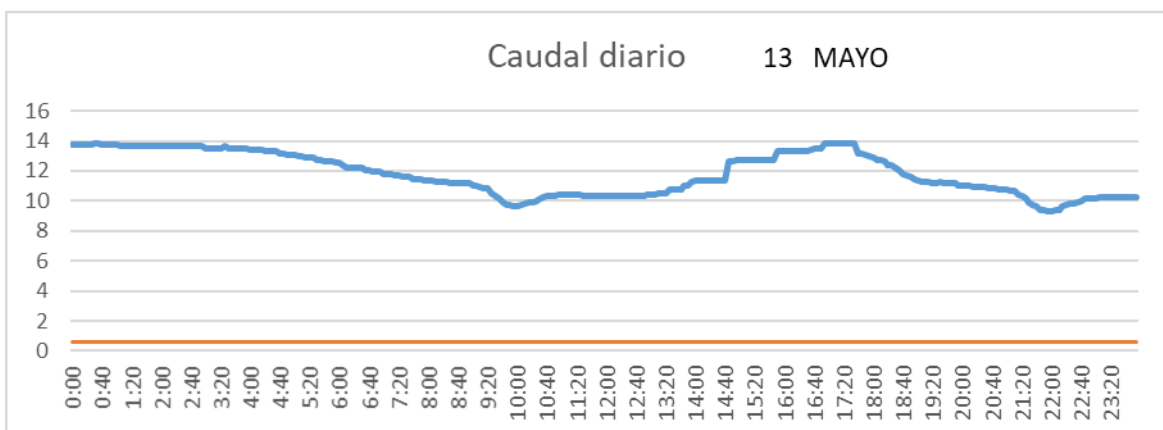
SALIDA TOBA



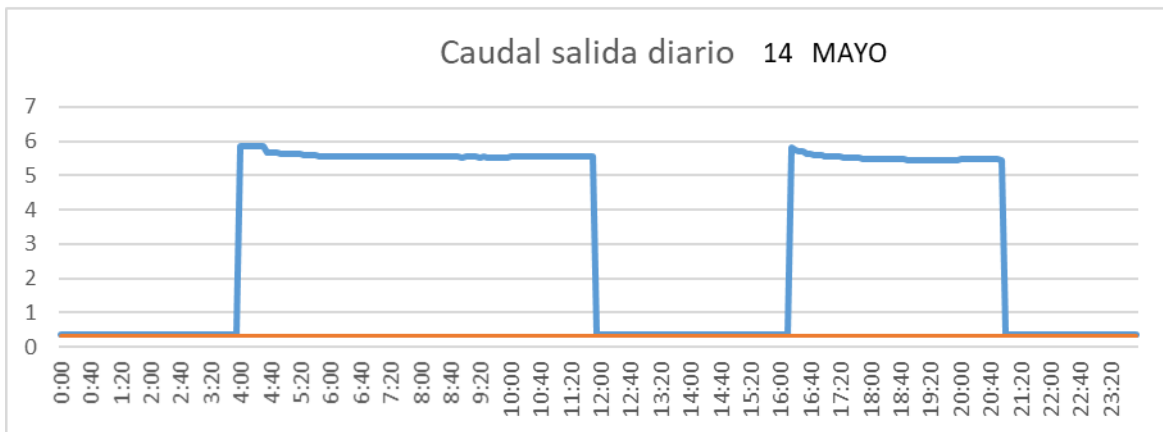
CUENCA



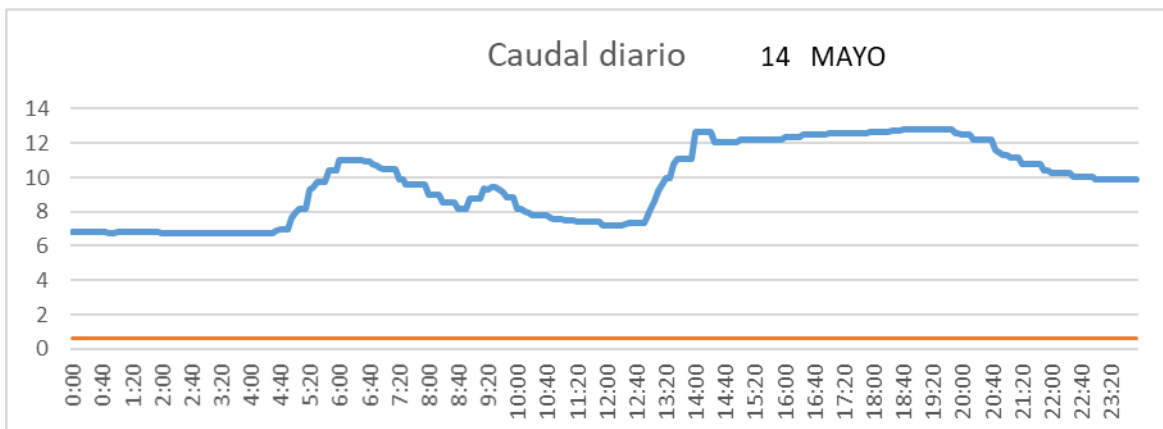
SAN LORENZO PARRILLA



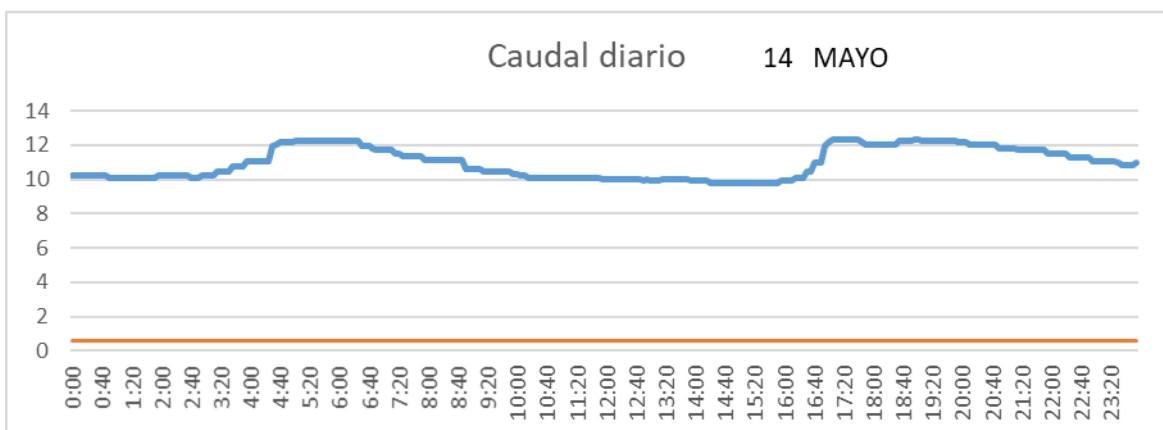
SALIDA TOBA



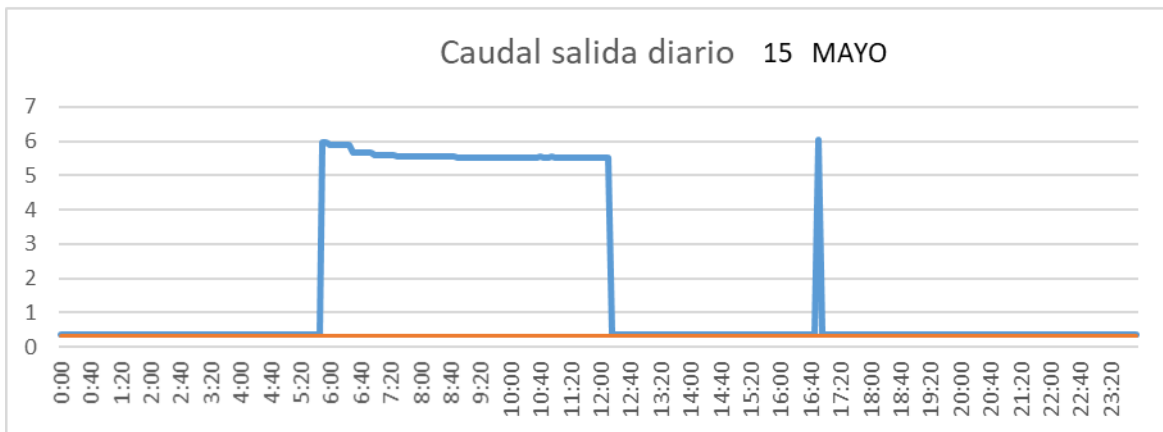
CUENCA



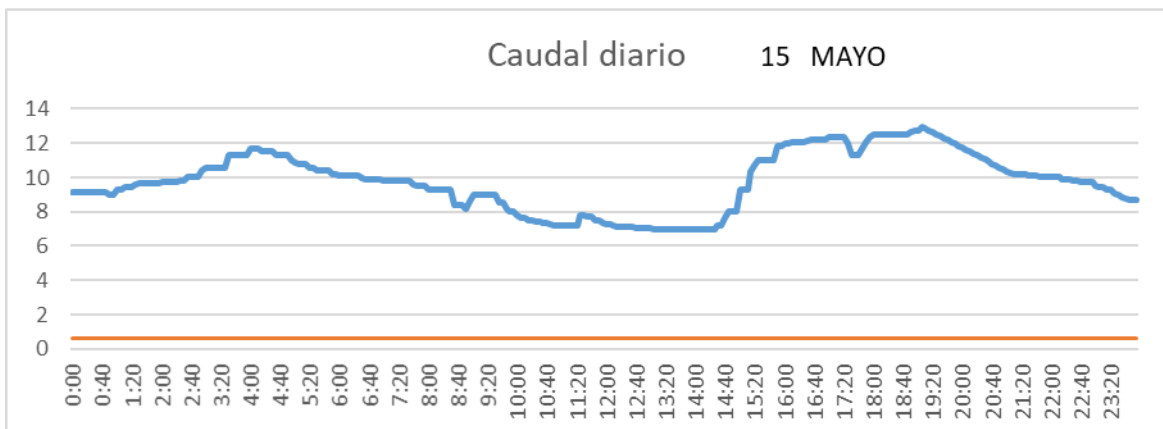
SAN LORENZO PARRILLA



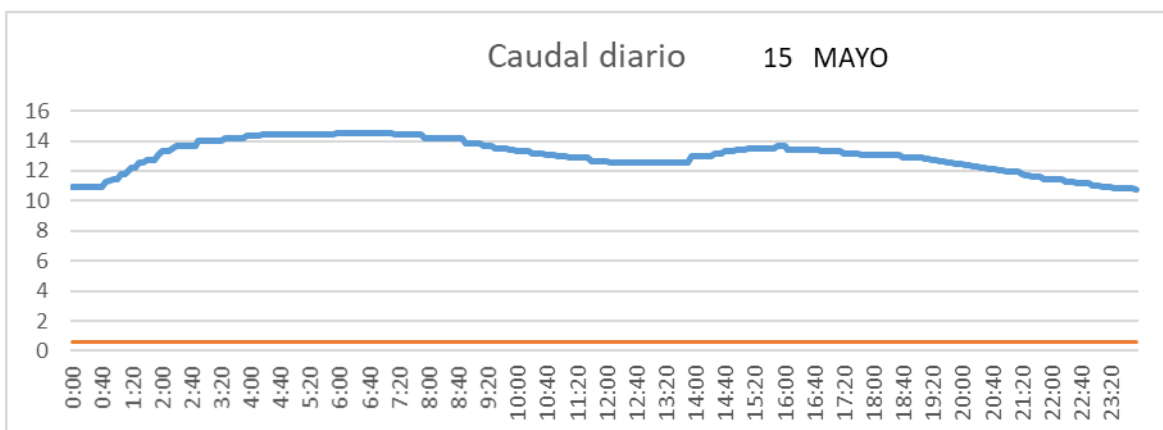
SALIDA TOBA



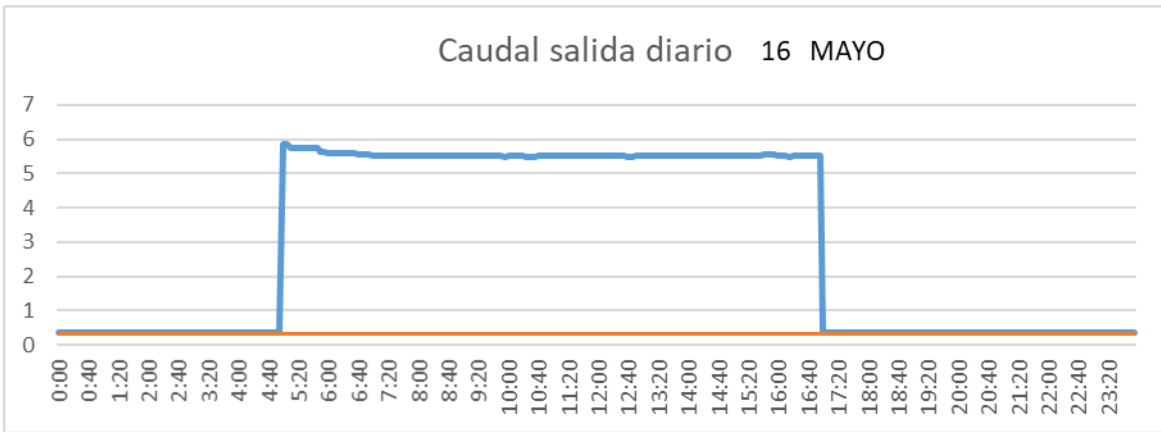
CUENCA



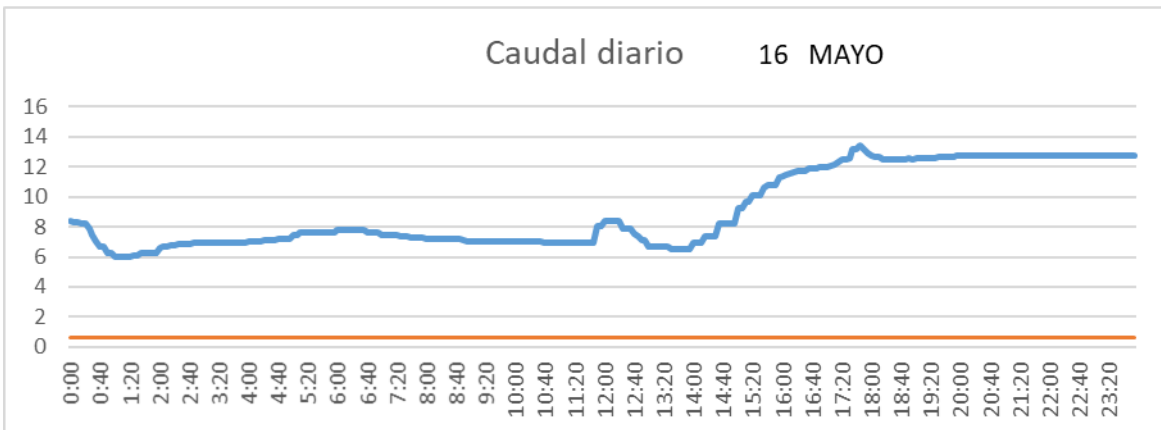
SAN LORENZO PARRILLA



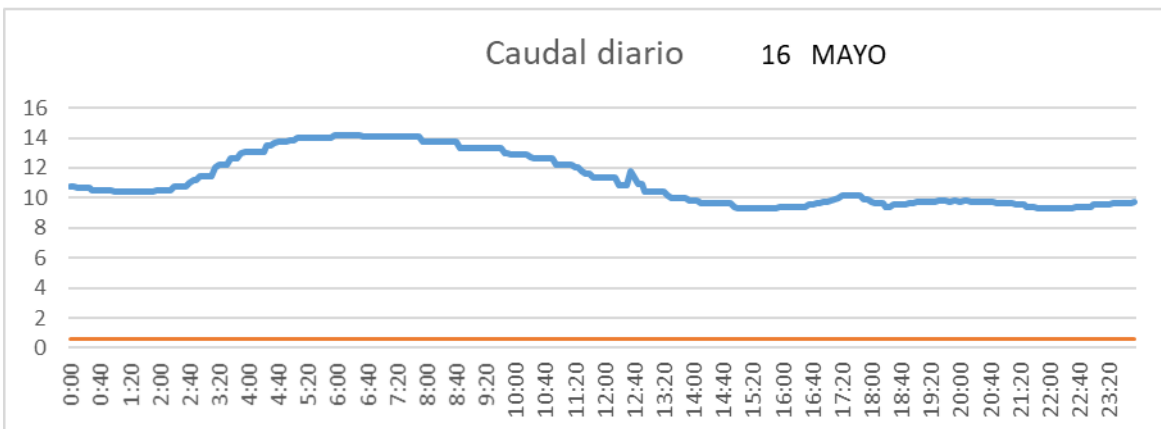
SALIDA TOBA



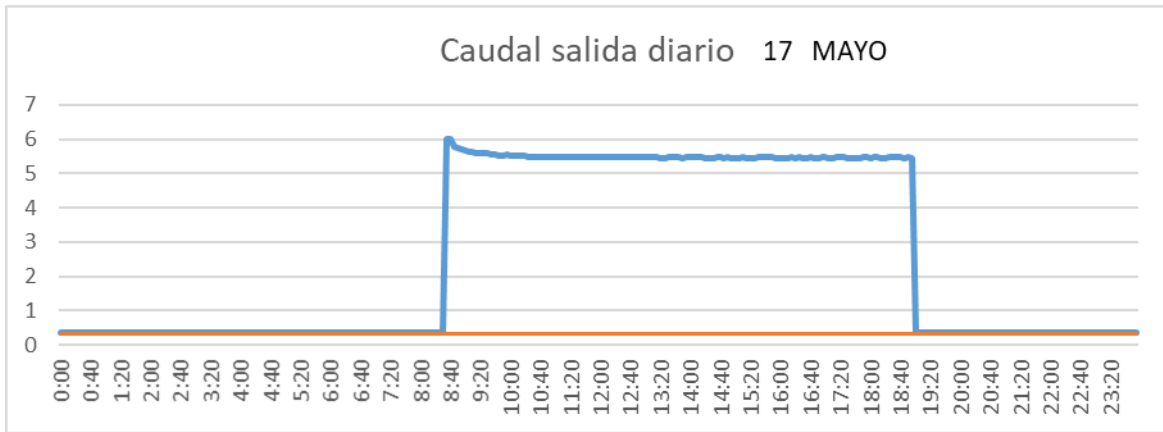
CUENCA



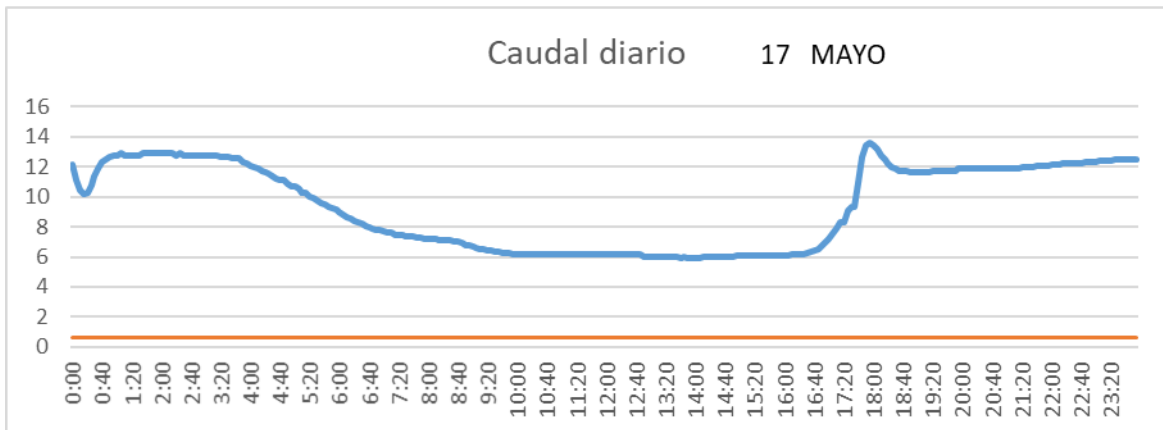
SAN LORENZO PARRILLA



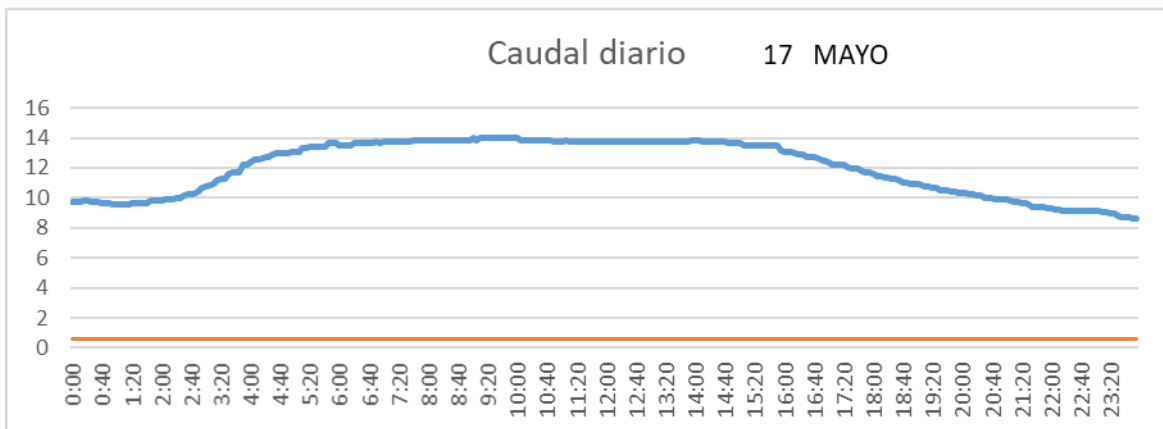
SALIDA TOBA



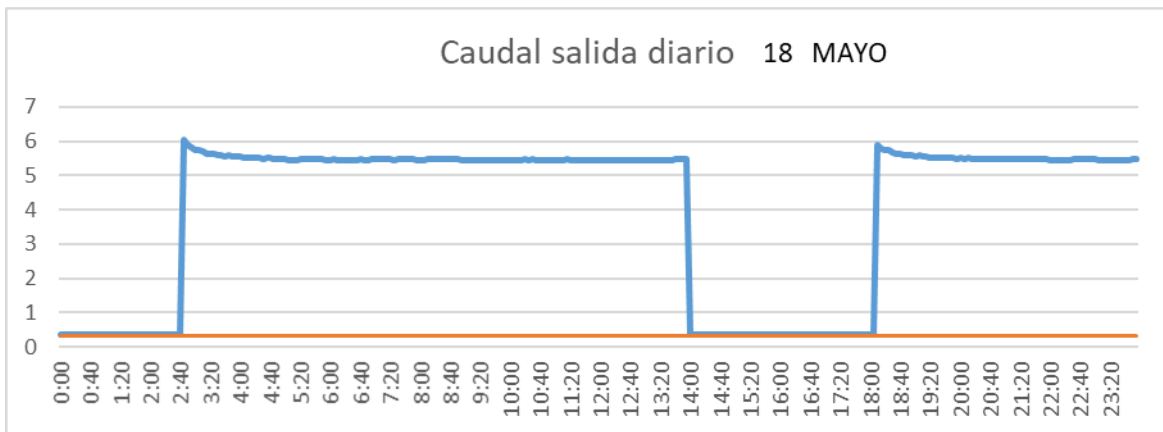
CUENCA



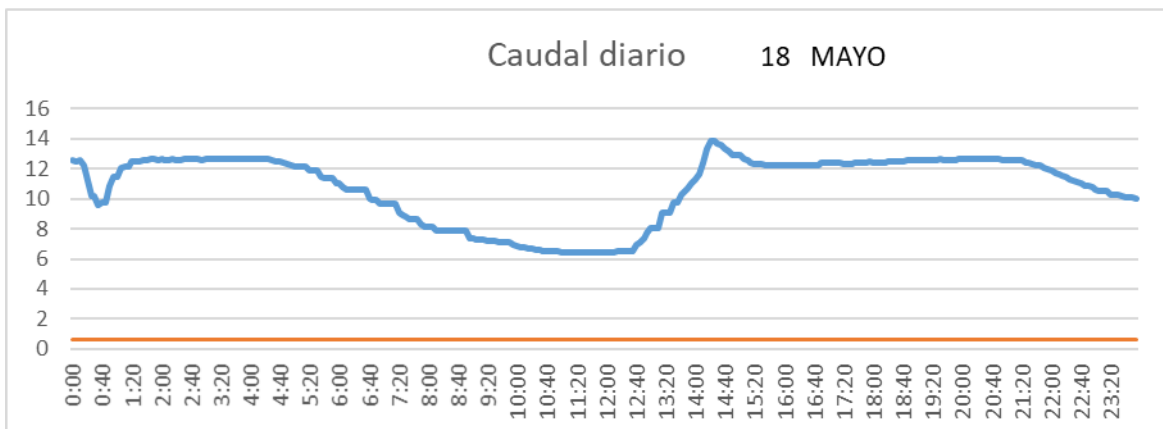
SAN LORENZO PARRILLA



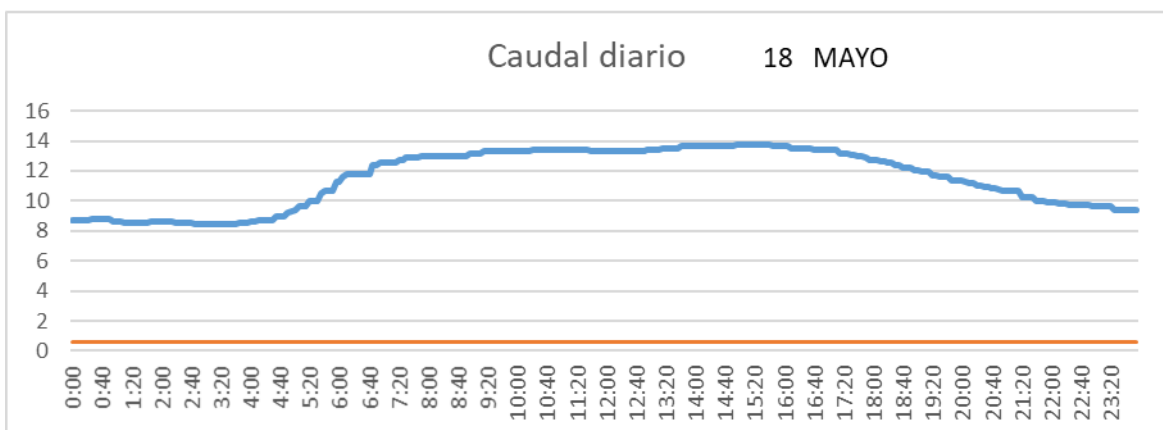
SALIDA TOBA



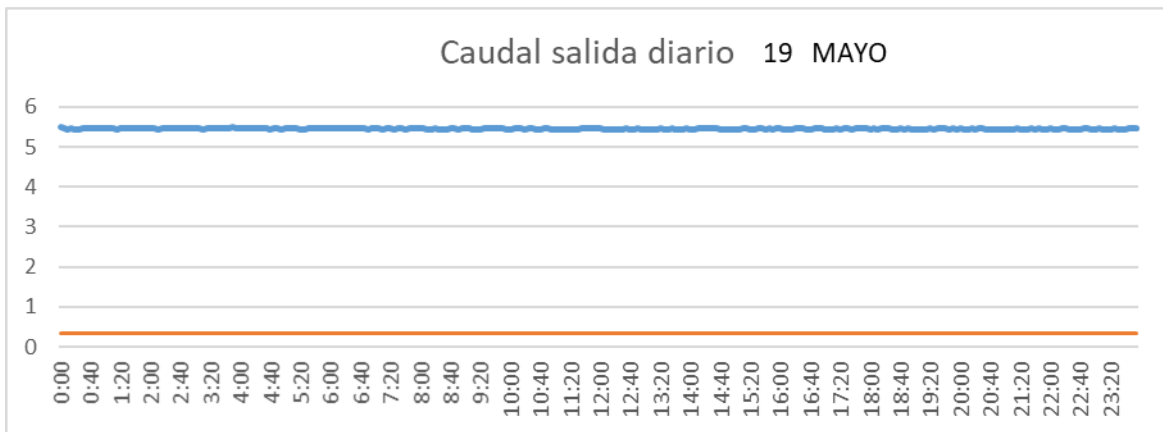
CUENCA



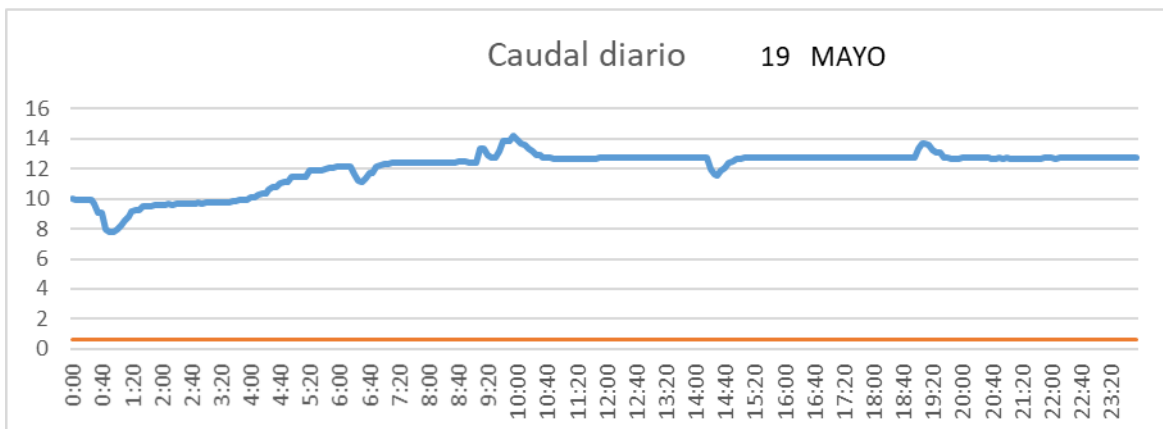
SAN LORENZO PARRILLA



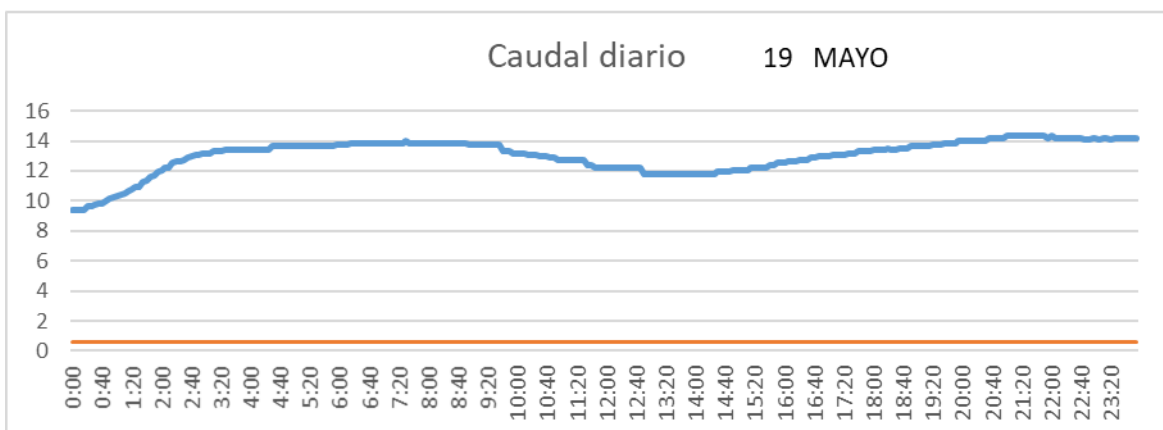
SALIDA TOBA



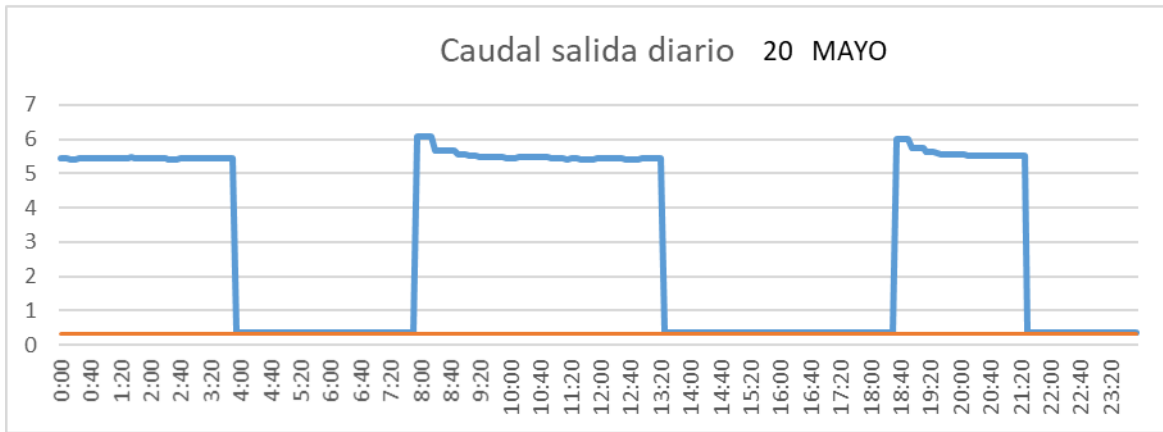
CUENCA



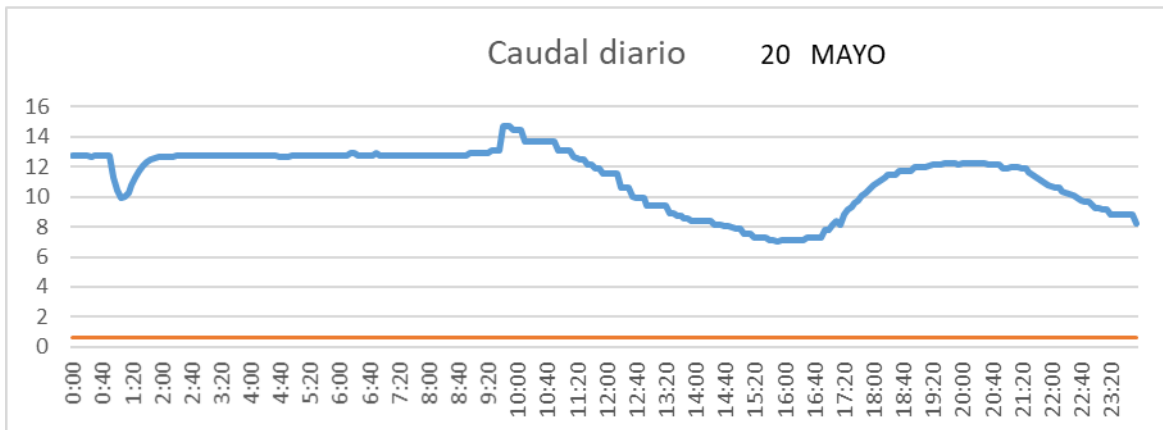
SAN LORENZO PARRILLA



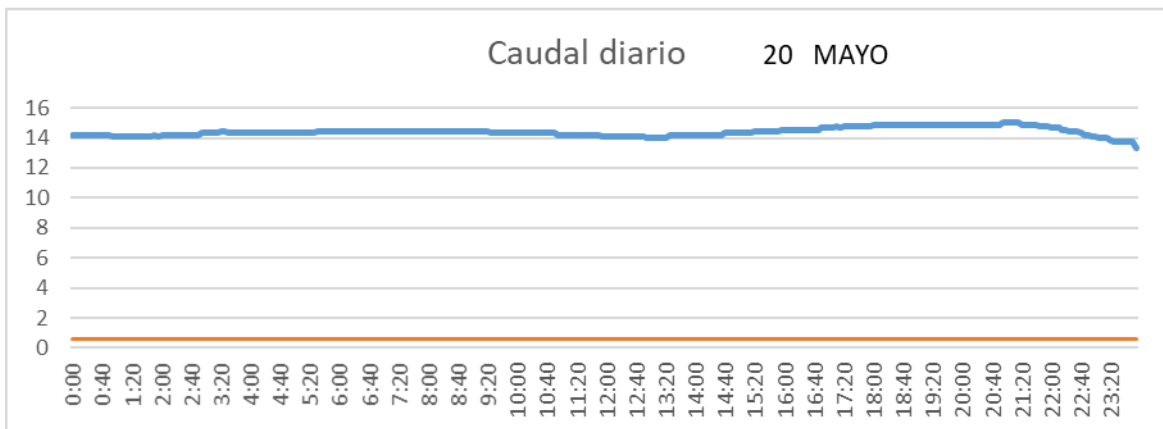
SALIDA TOBA



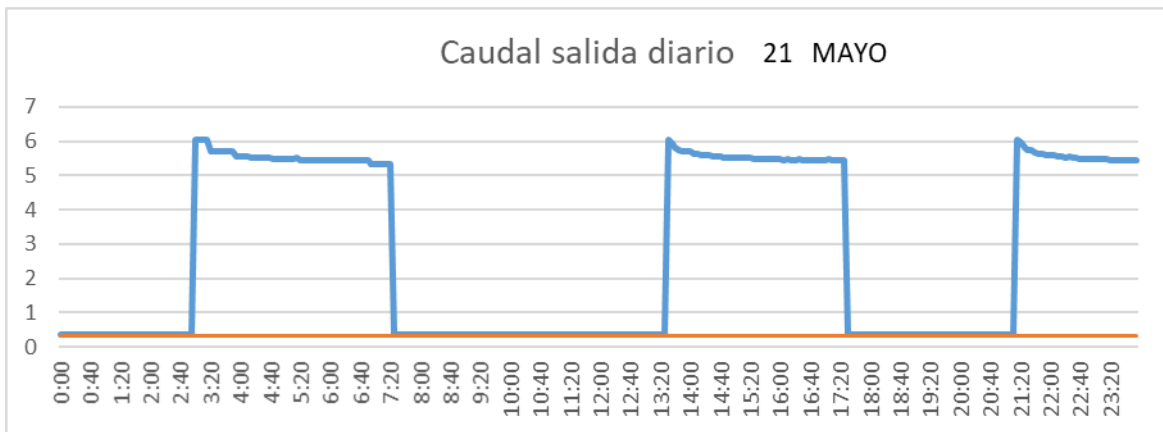
CUENCA



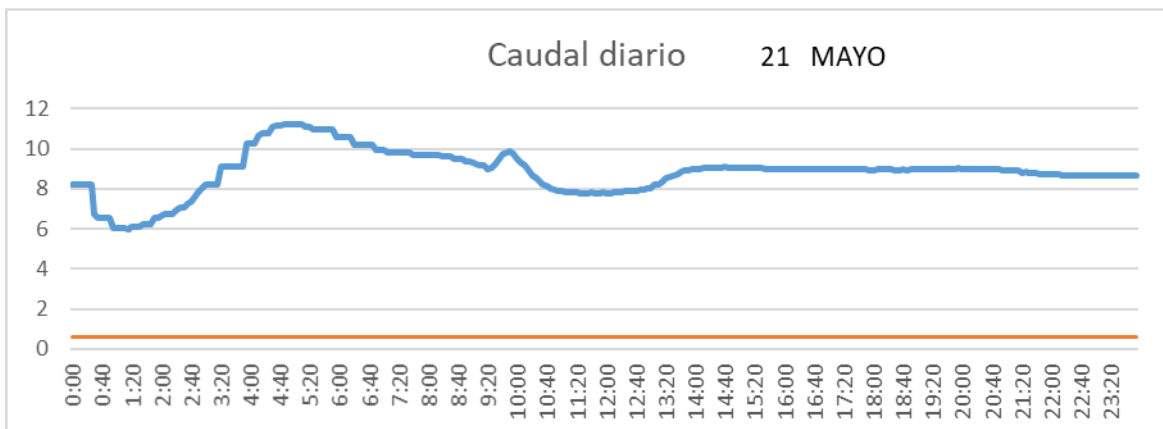
SAN LORENZO PARRILLA



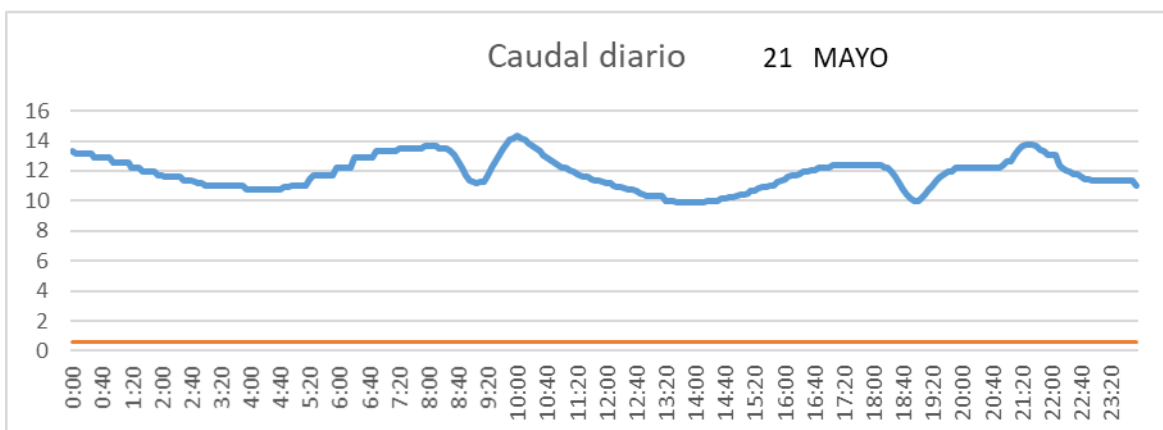
SALIDA TOBA



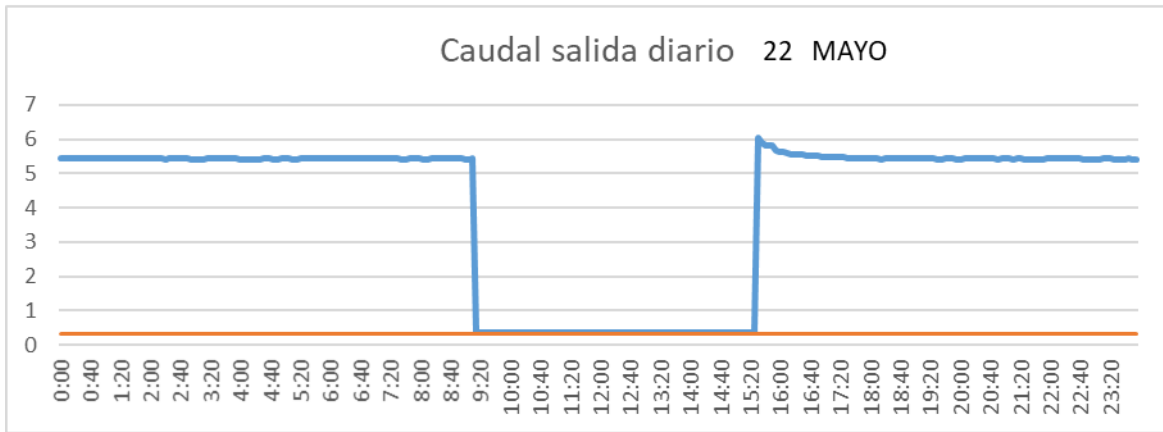
CUENCA



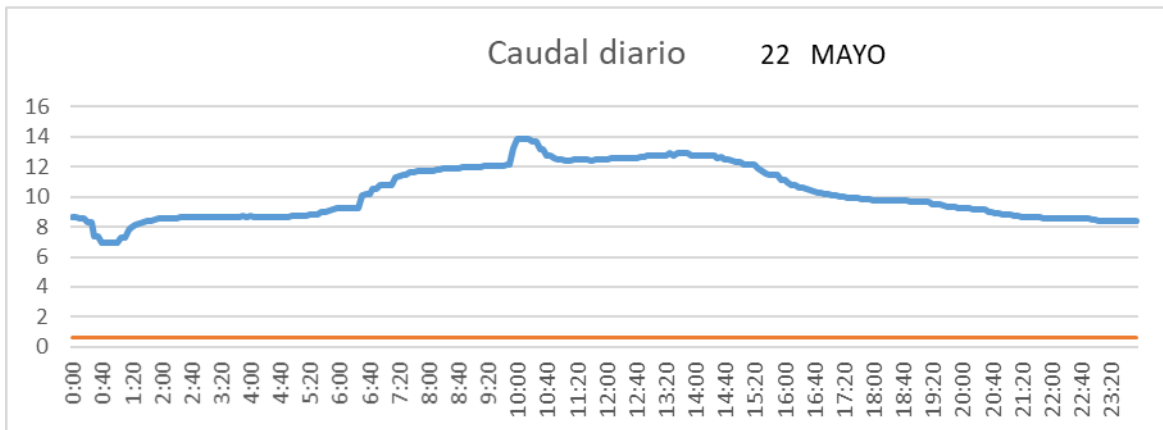
SAN LORENZO PARRILLA



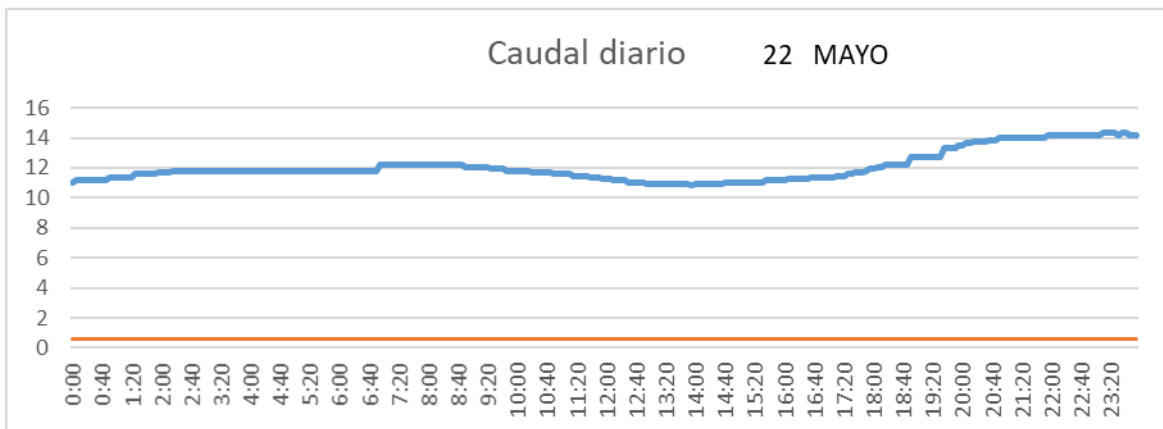
SALIDA TOBA



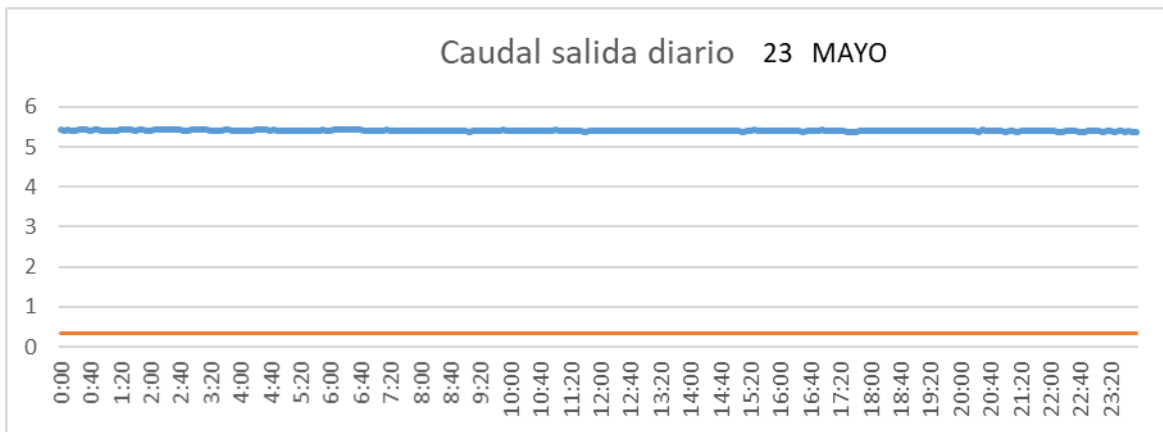
CUENCA



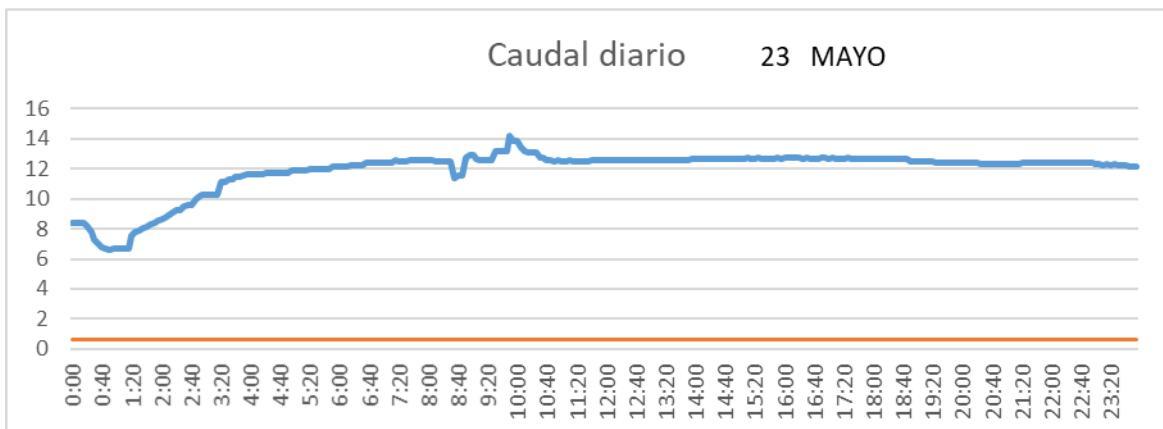
SAN LORENZO PARRILLA



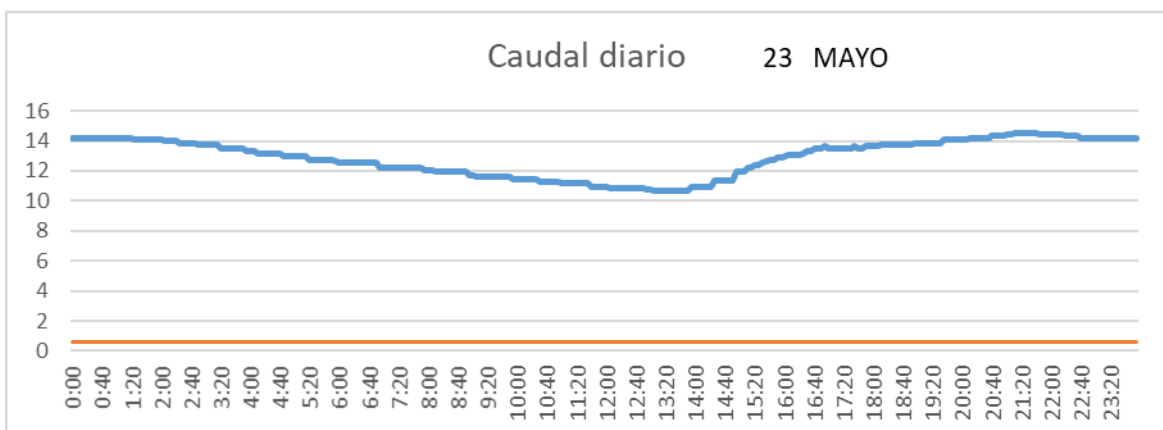
SALIDA TOBA



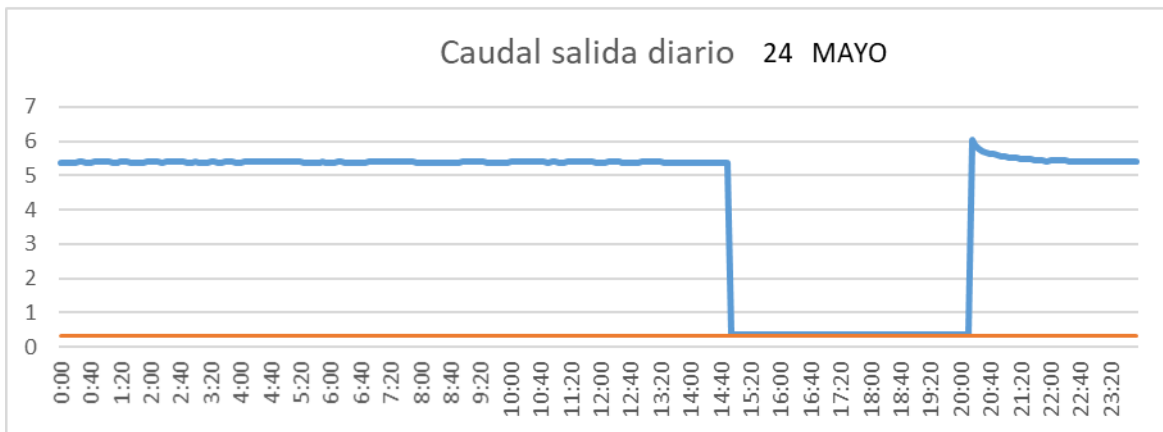
CUENCA



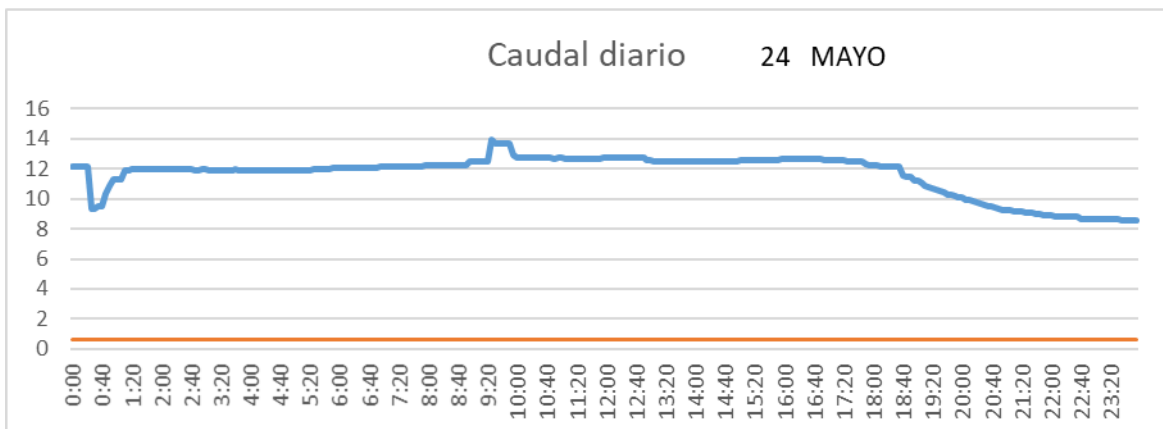
SAN LORENZO PARRILLA



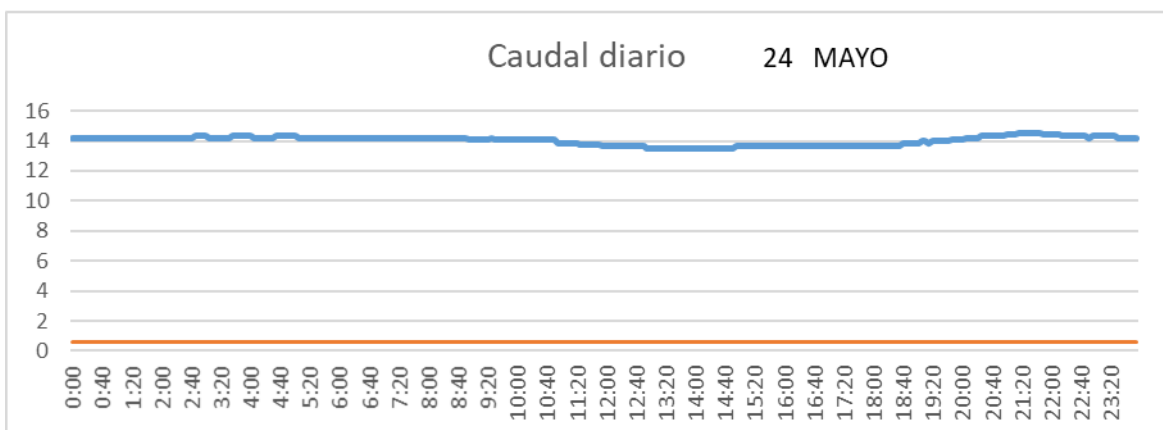
SALIDA TOBA



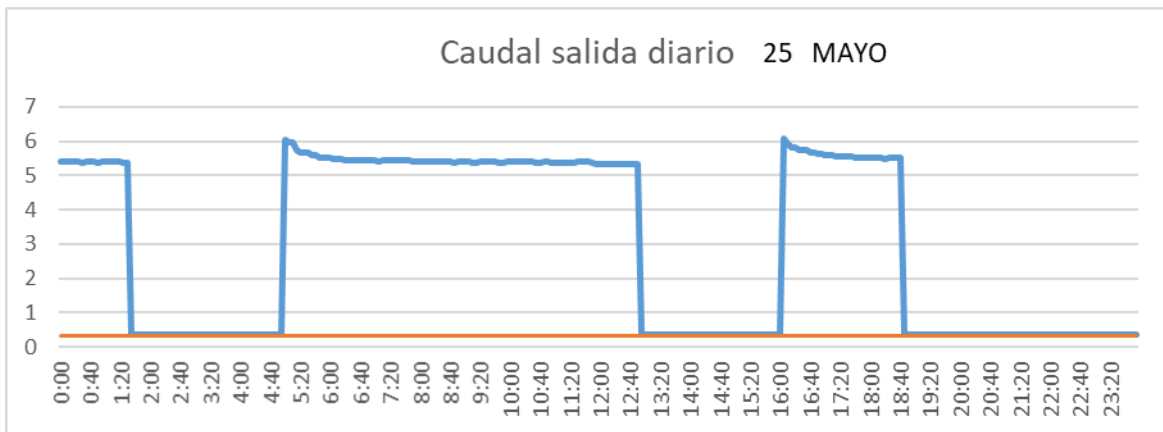
CUENCA



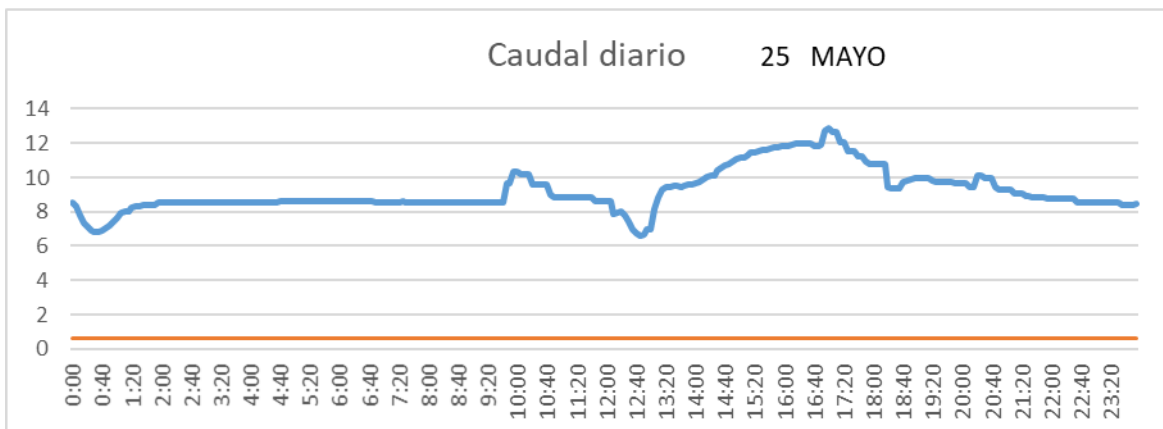
SAN LORENZO PARRILLA



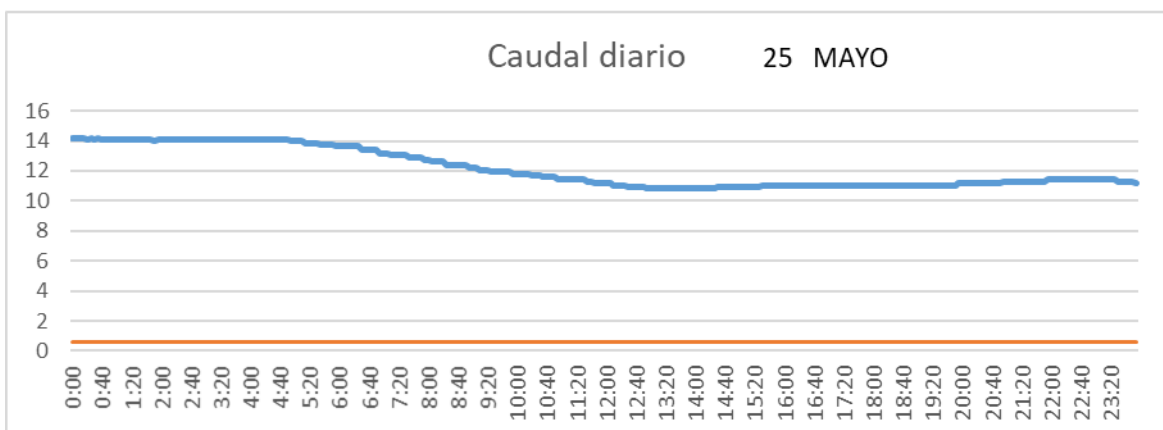
SALIDA TOBA



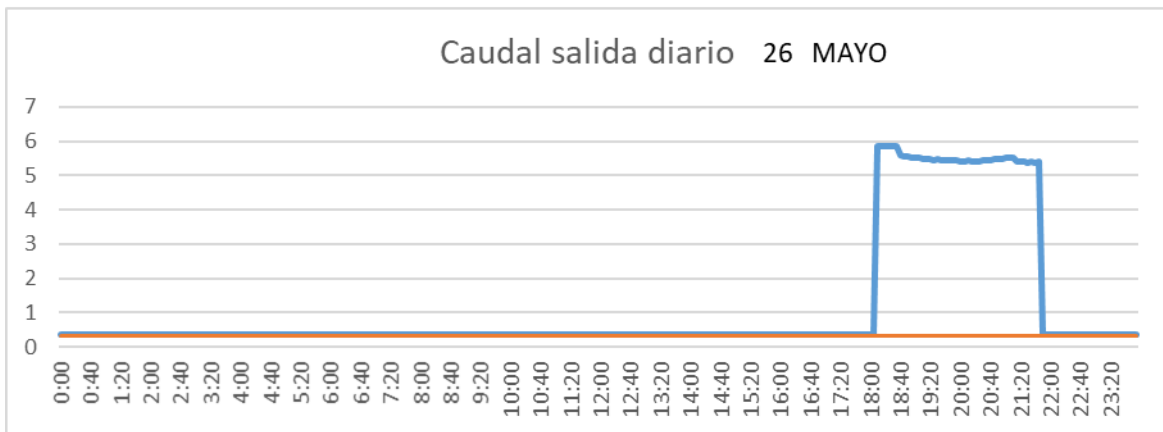
CUENCA



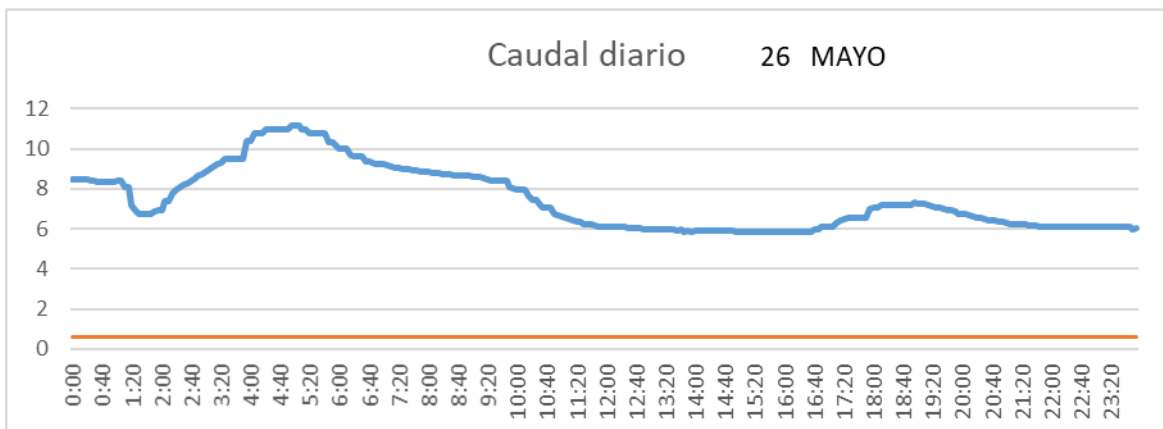
SAN LORENZO PARRILLA



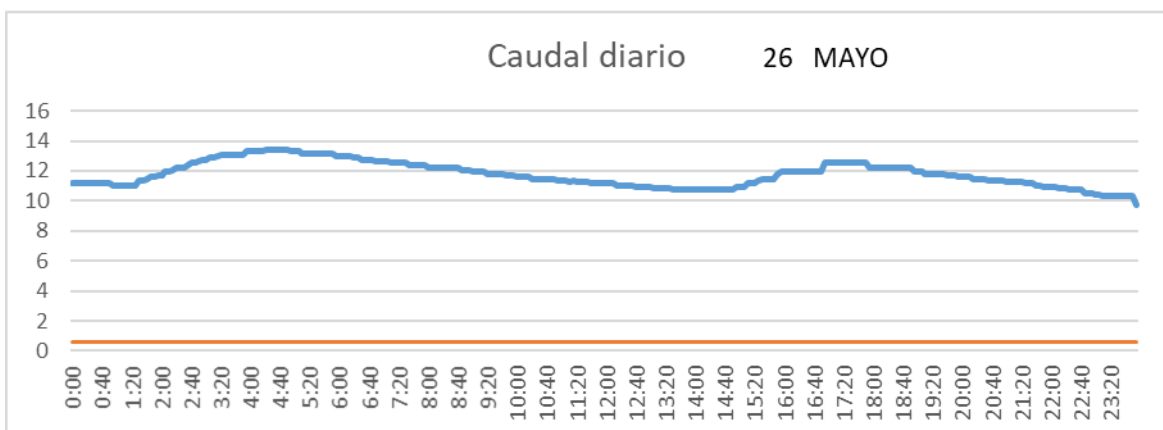
SALIDA TOBA



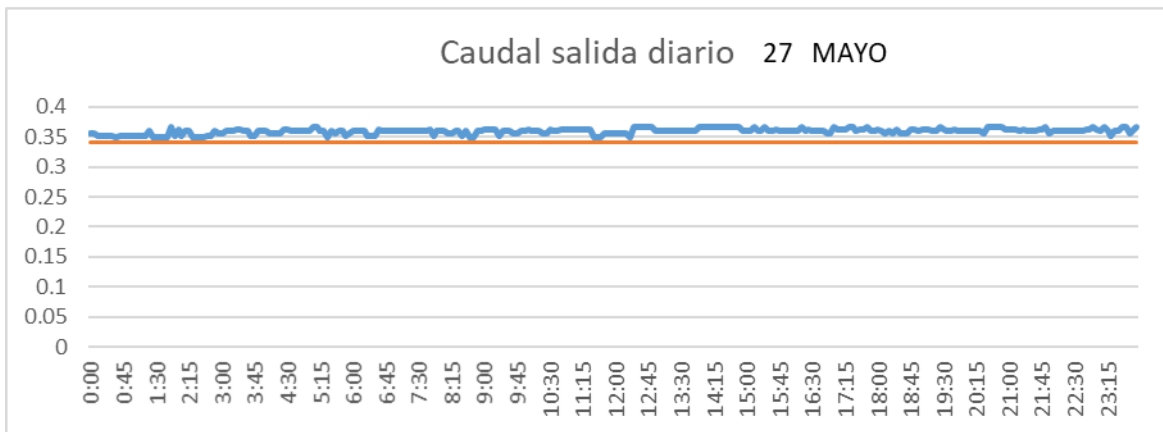
CUENCA



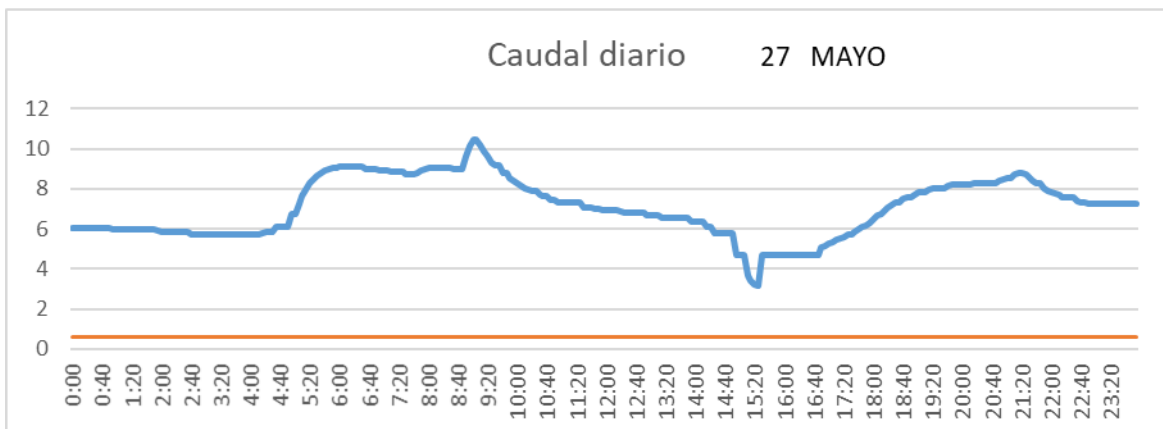
SAN LORENZO PARRILLA



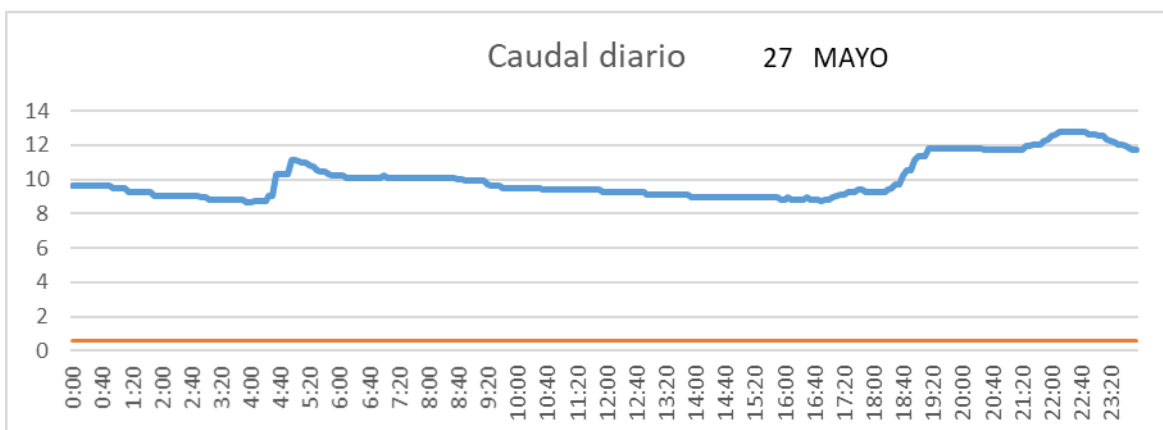
SALIDA TOBA



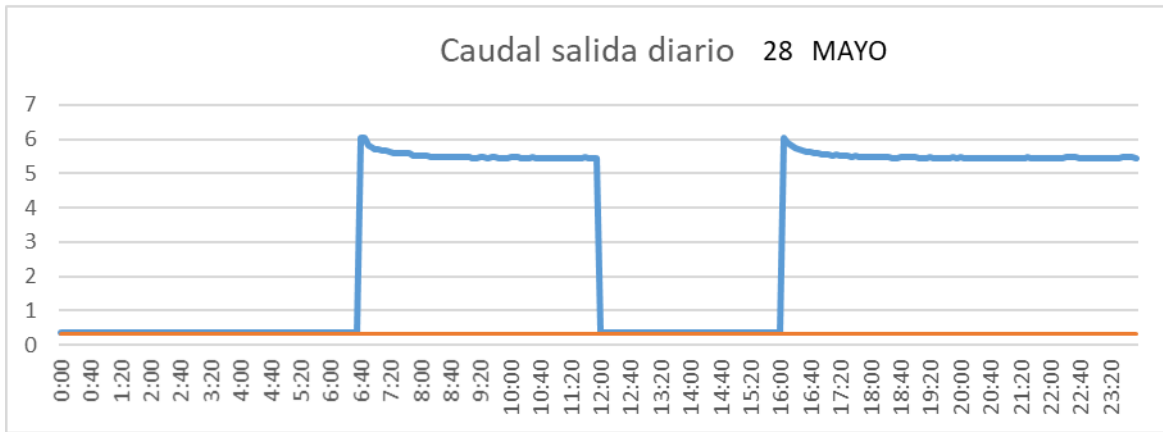
CUENCA



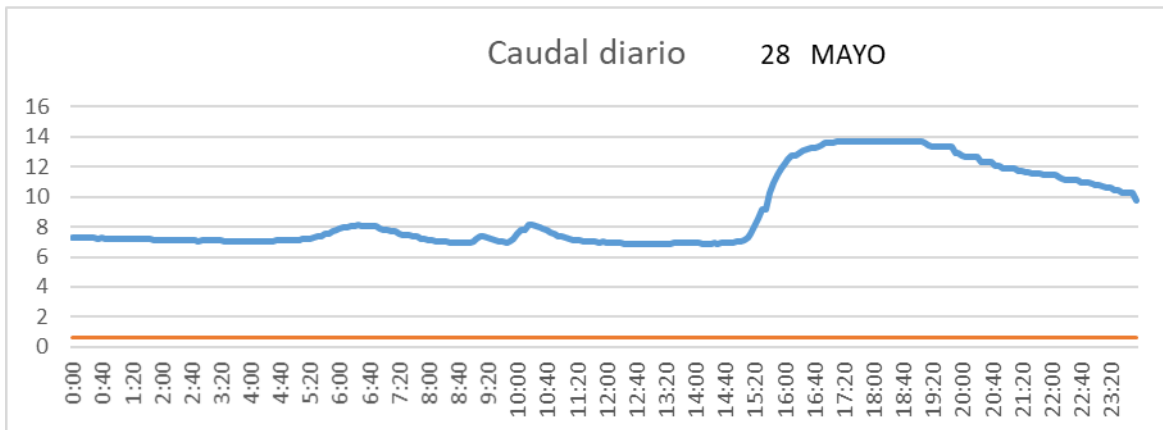
SAN LORENZO PARRILLA



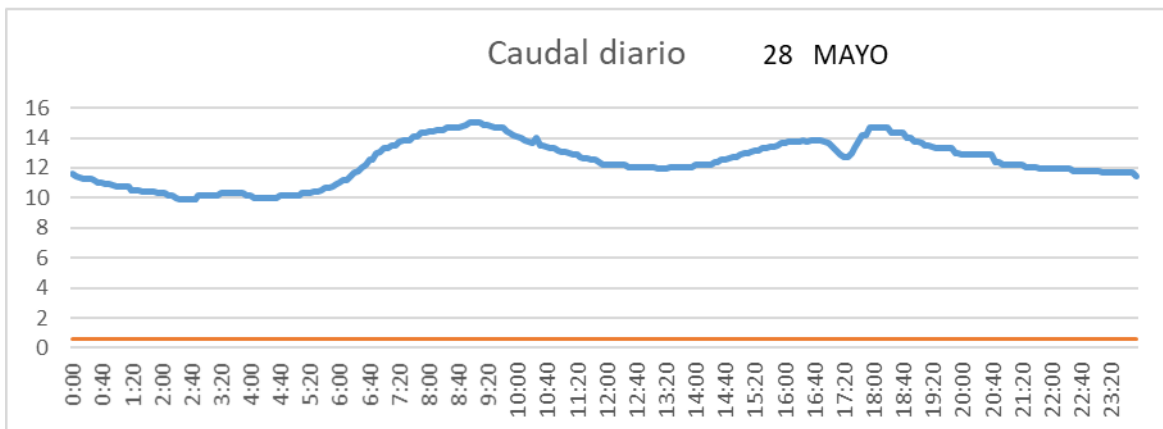
SALIDA TOBA



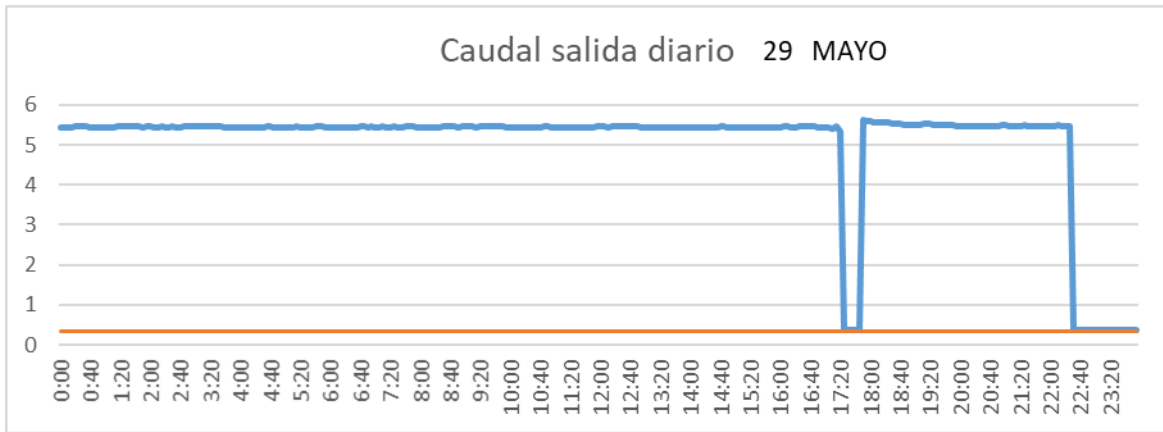
CUENCA



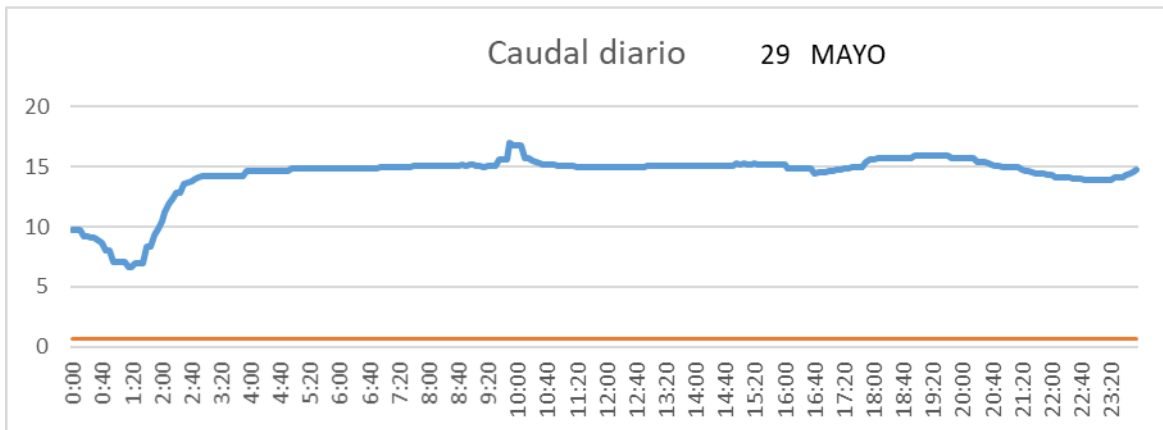
SAN LORENZO PARRILLA



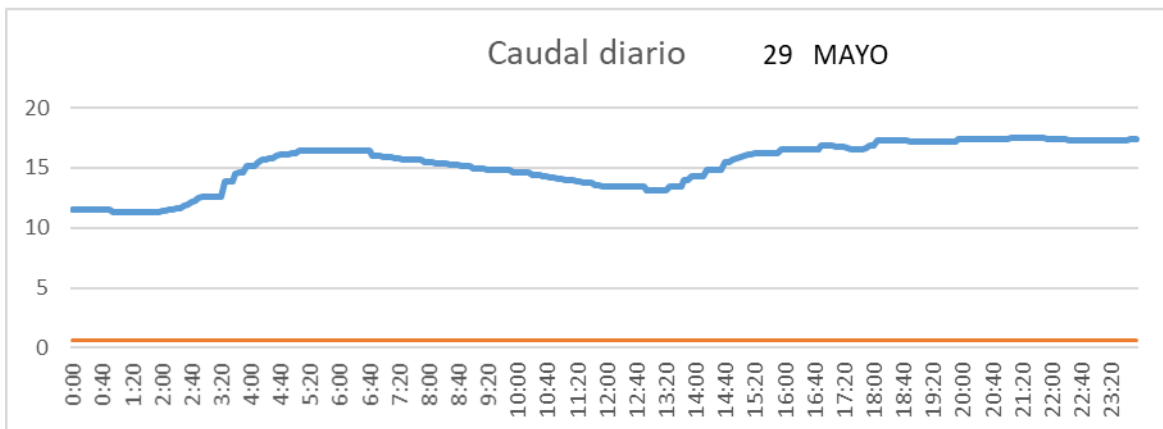
SALIDA TOBA



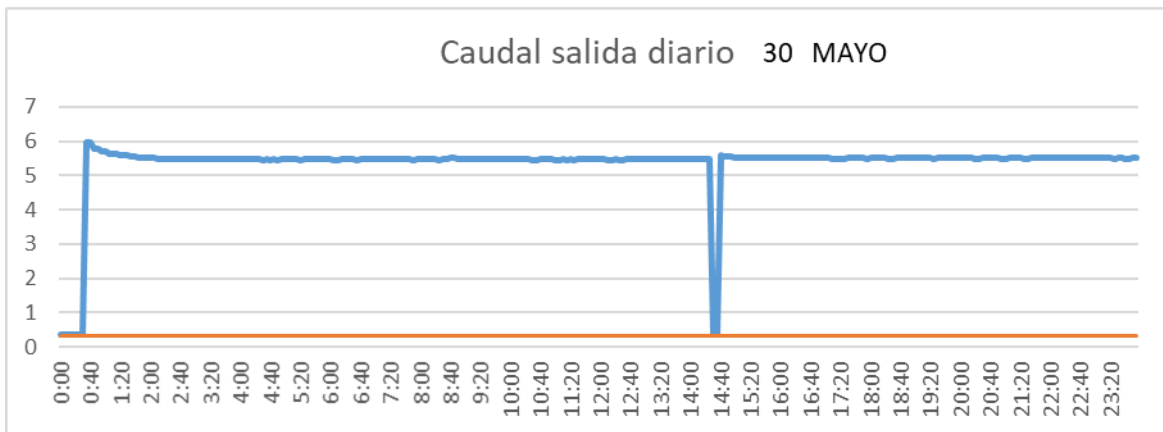
CUENCA



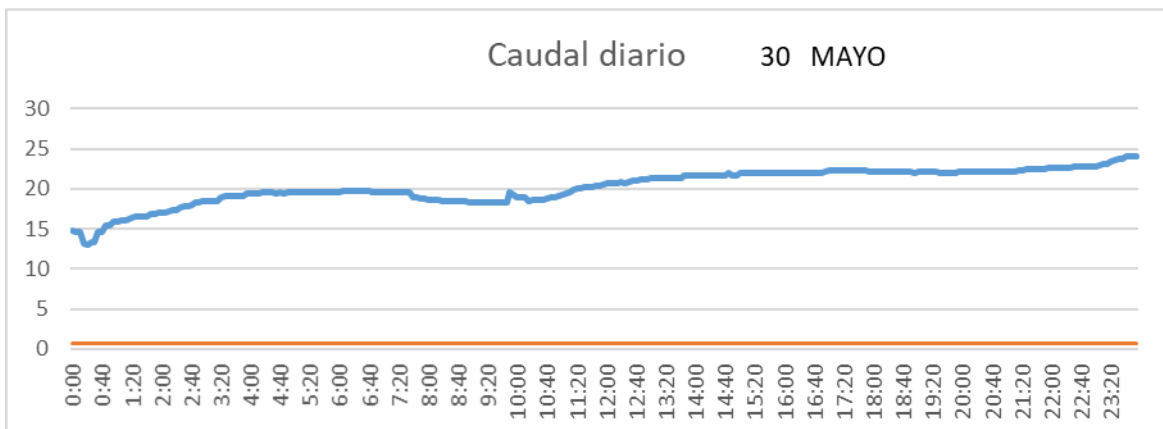
SAN LORENZO PARRILLA



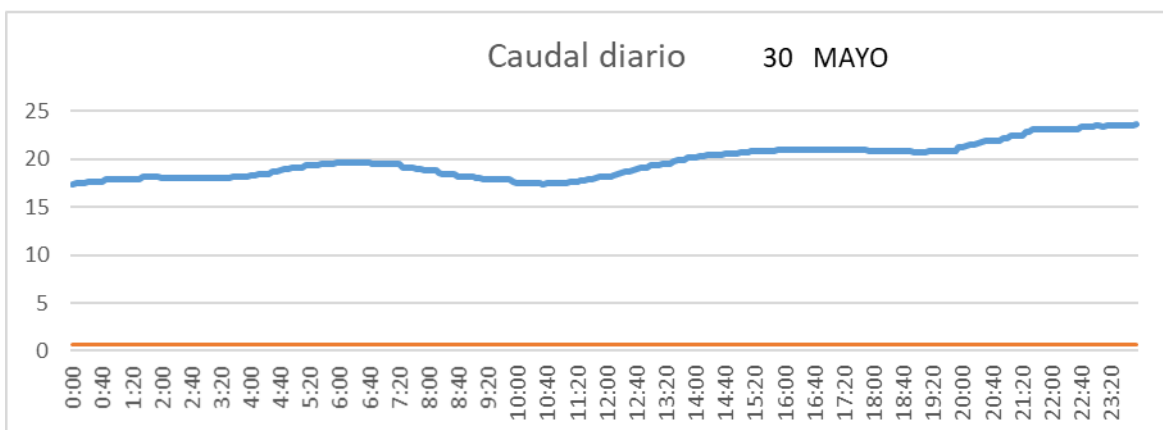
SALIDA TOBA



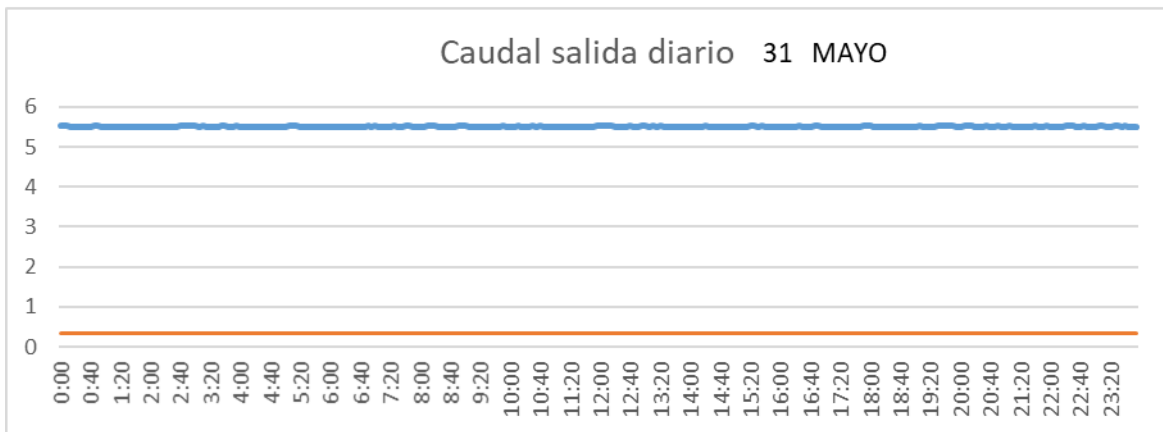
CUENCA



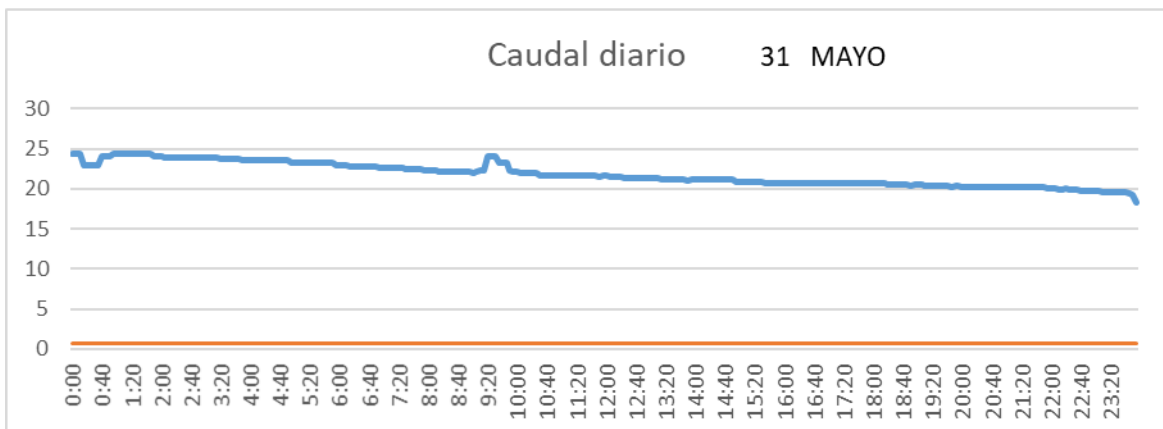
SAN LORENZO PARRILLA



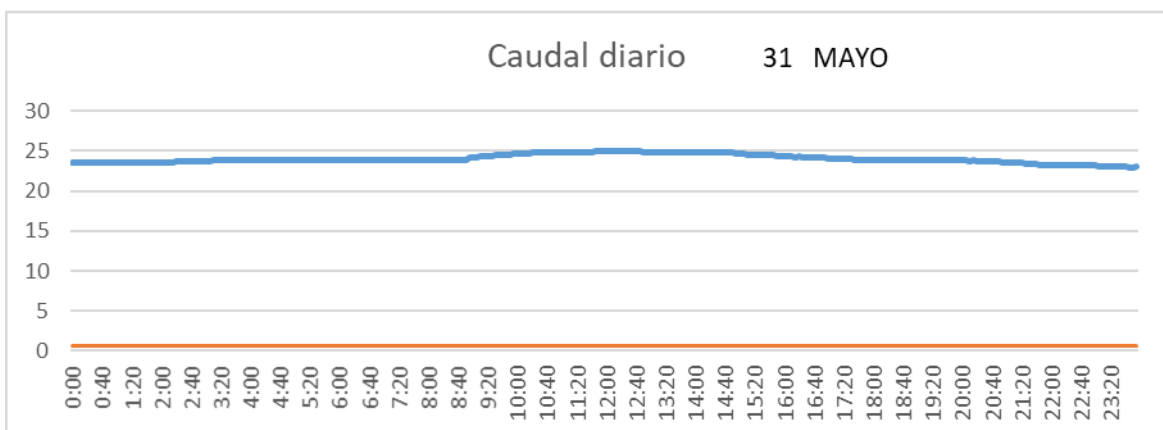
SALIDA TOBA



CUENCA

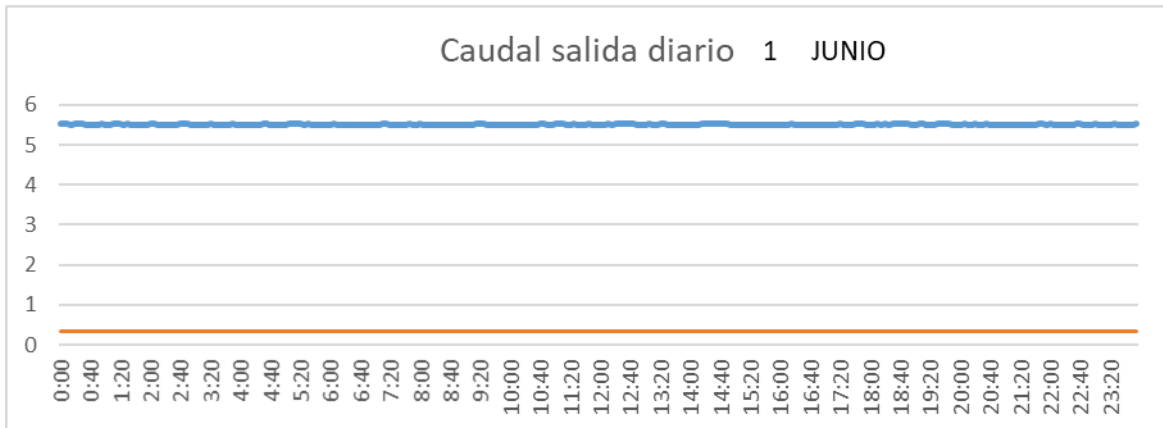


SAN LORENZO PARRILLA

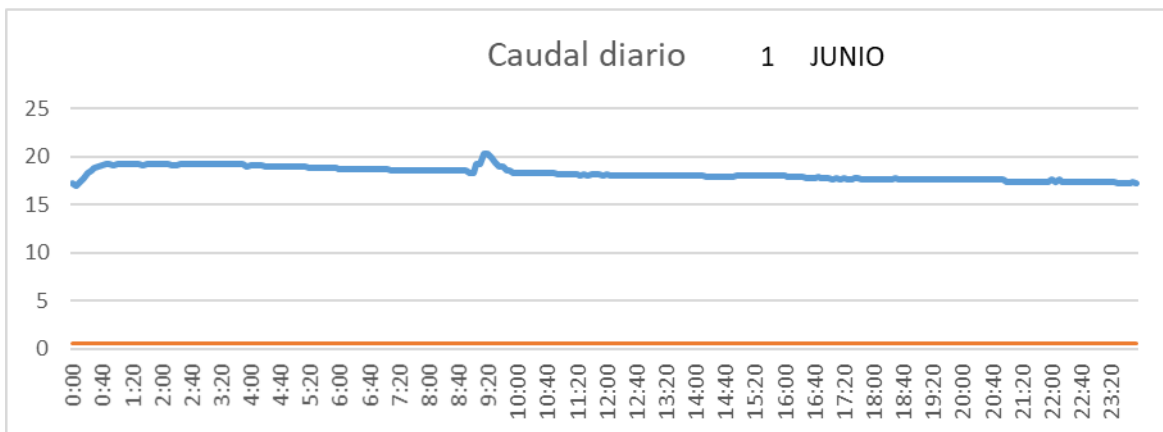


2.3.6 Junio

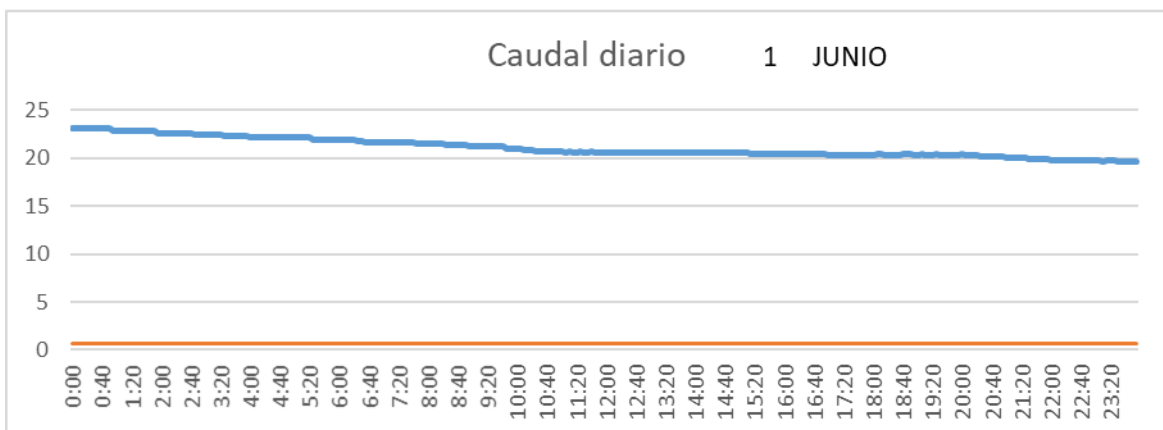
SALIDA TOBA



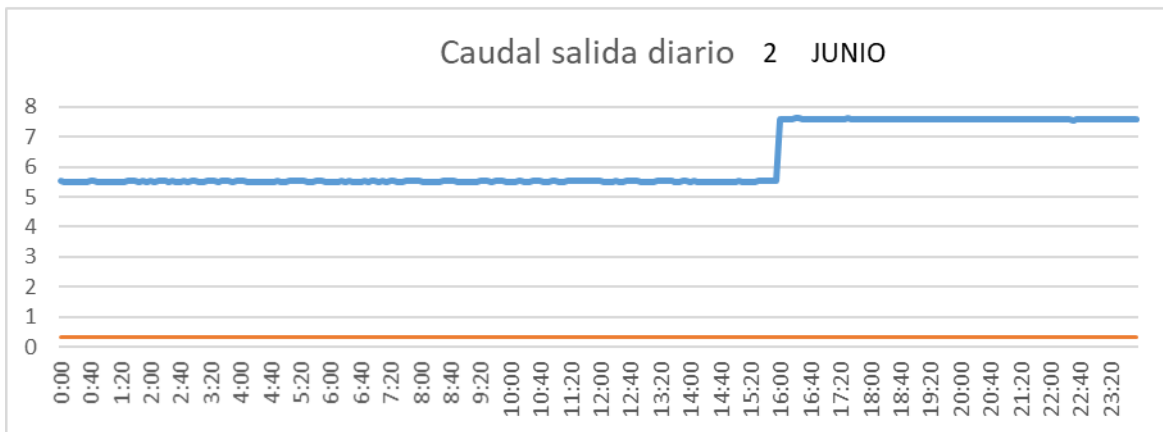
CUENCA



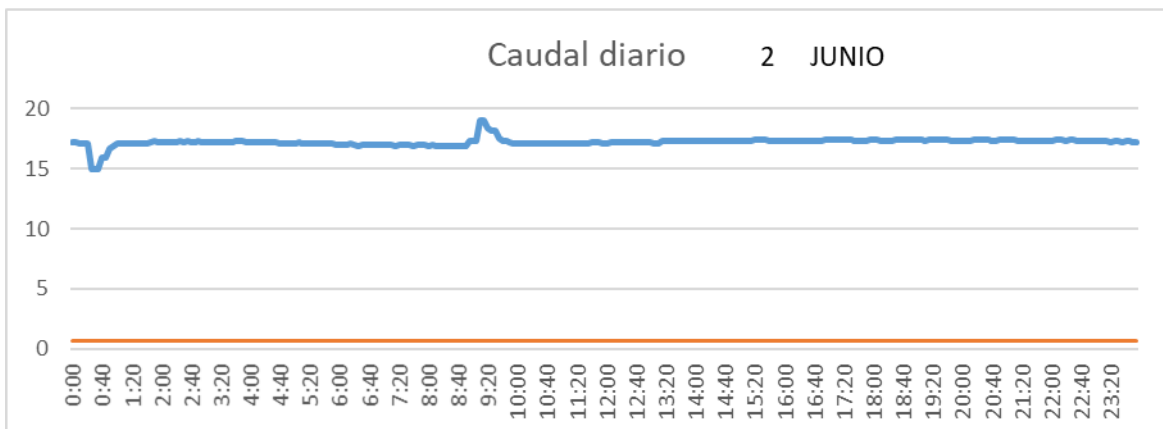
SAN LORENZO PARRILLA



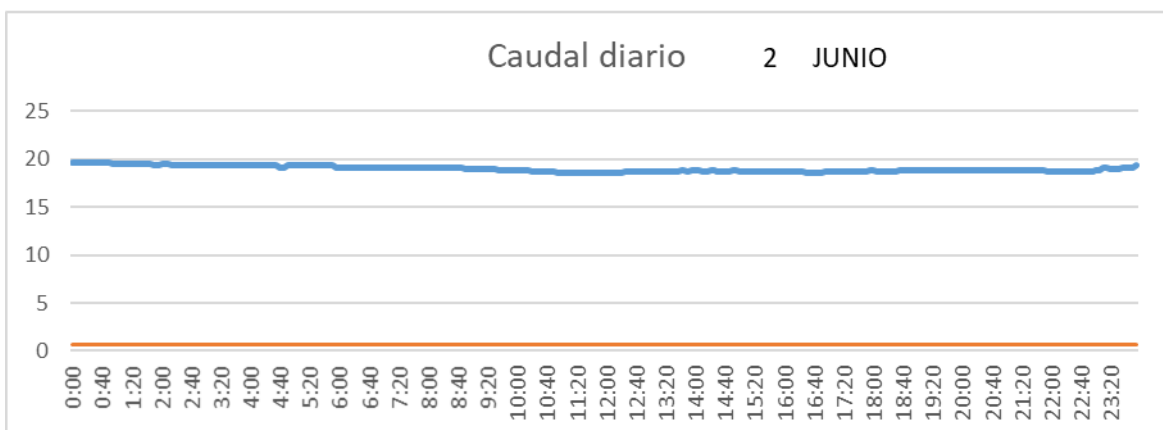
SALIDA TOBA



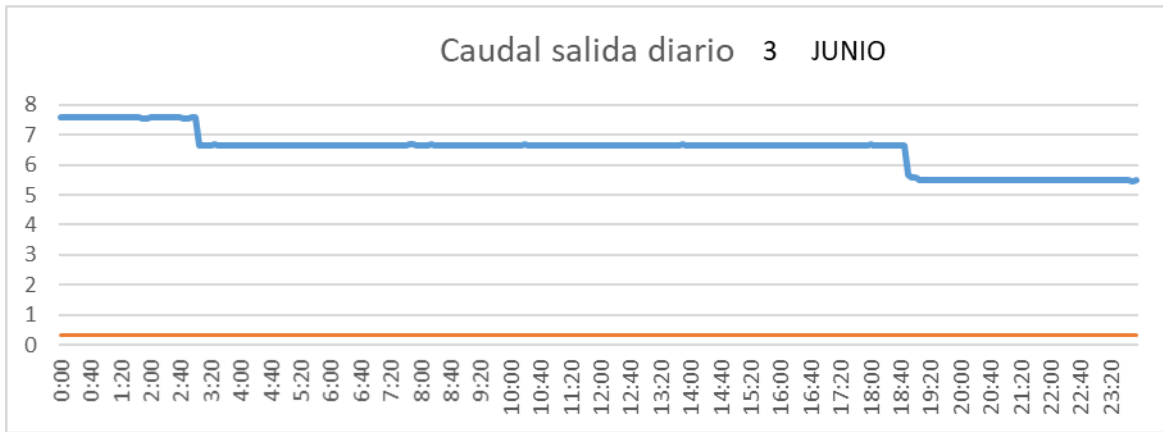
CUENCA



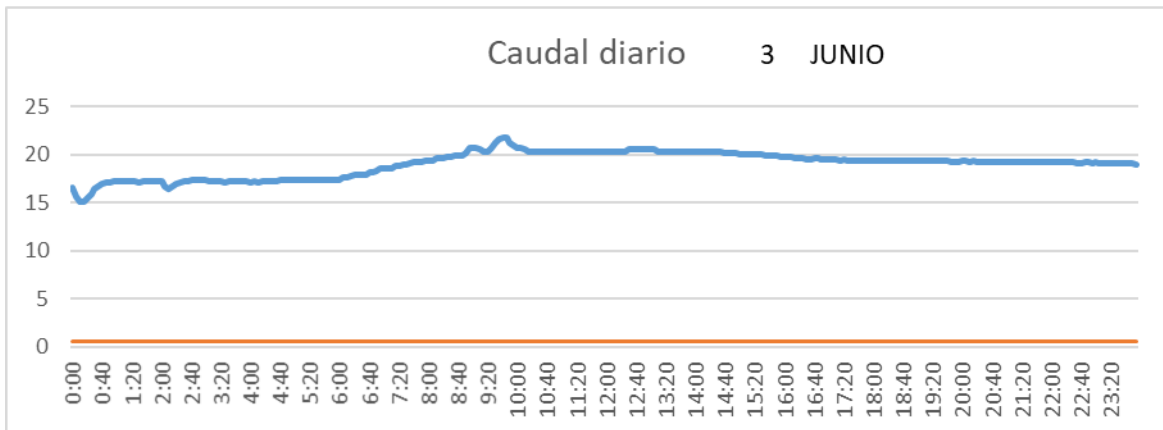
SAN LORENZO PARRILLA



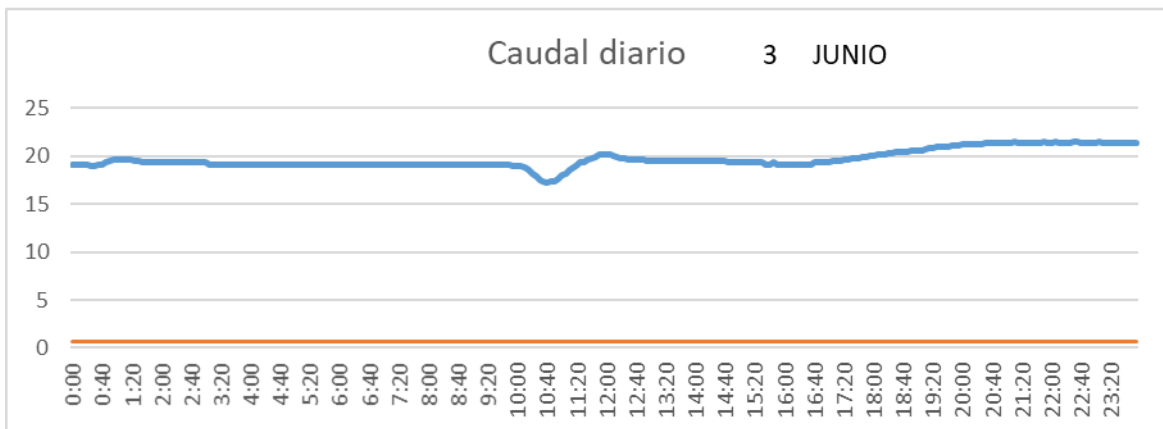
SALIDA TOBA



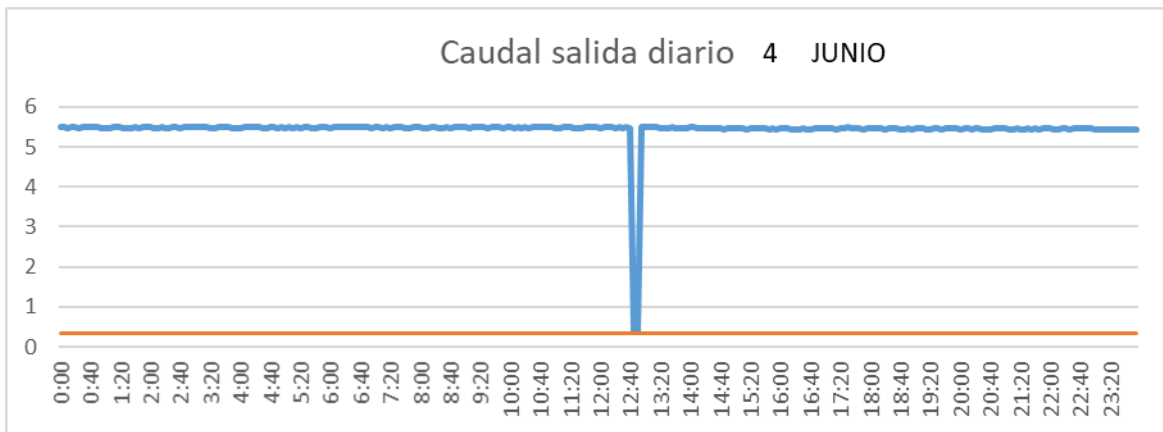
CUENCA



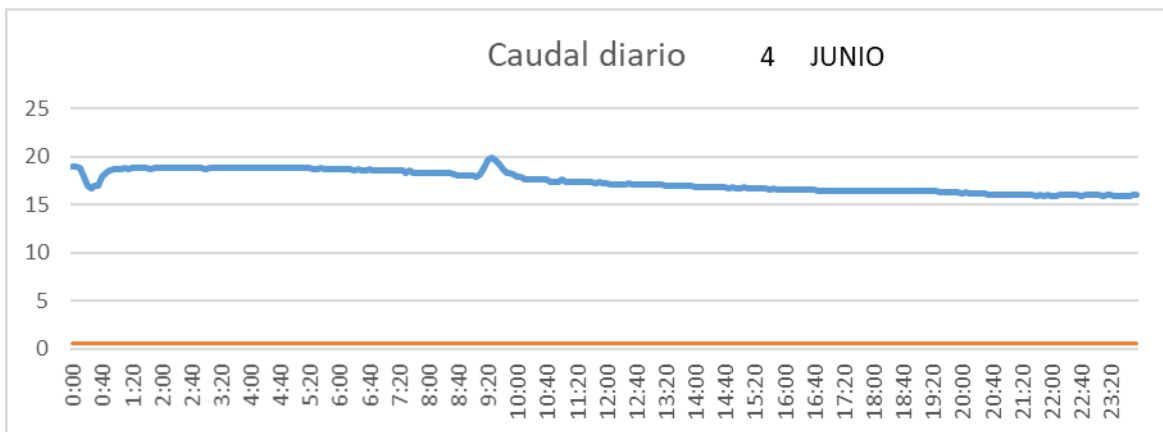
SAN LORENZO PARRILLA



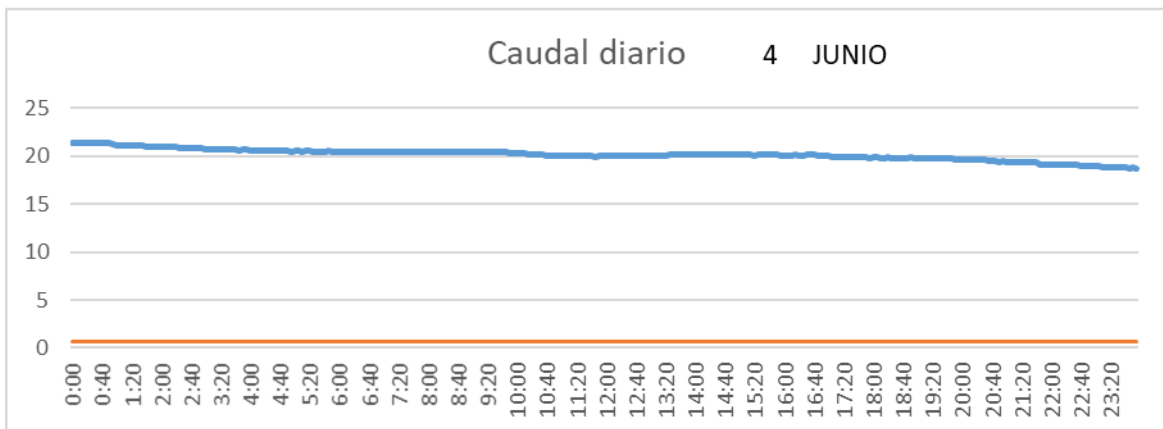
SALIDA TOBA



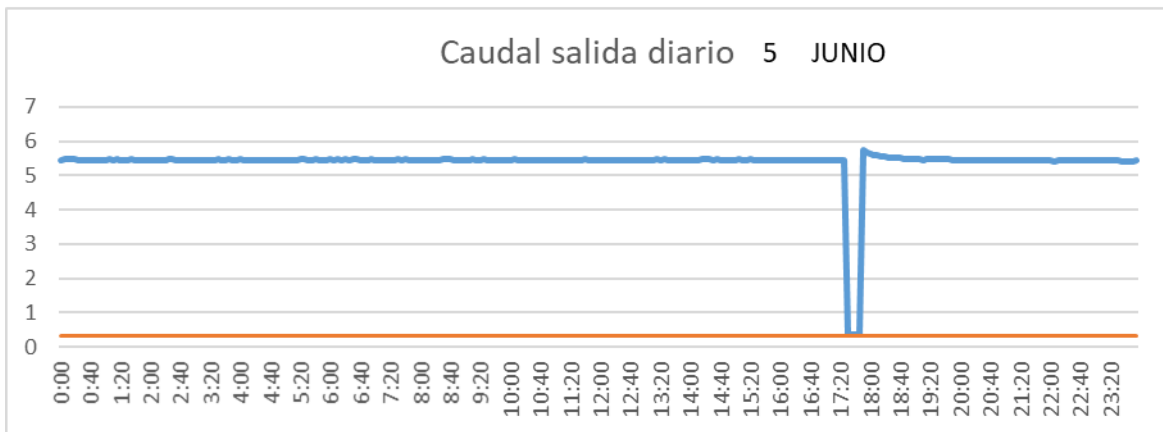
CUENCA



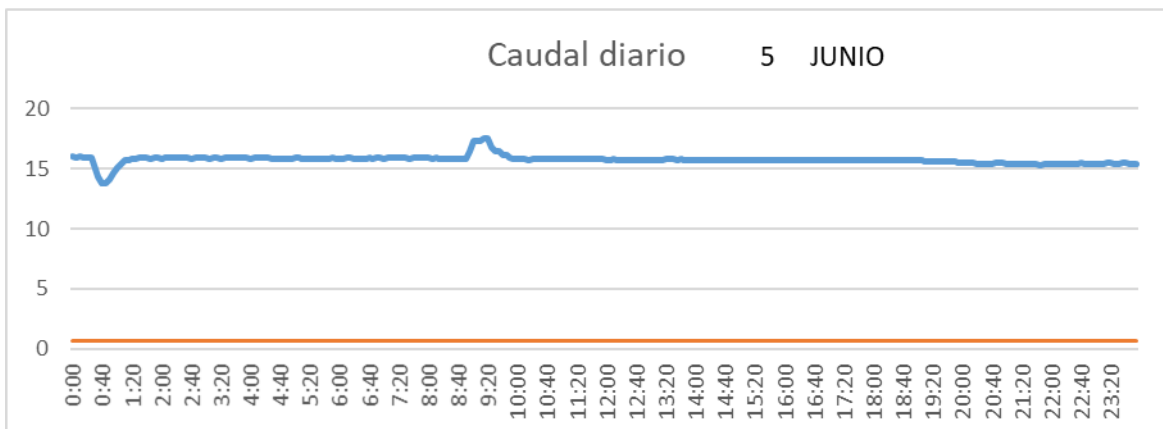
SAN LORENZO PARRILLA



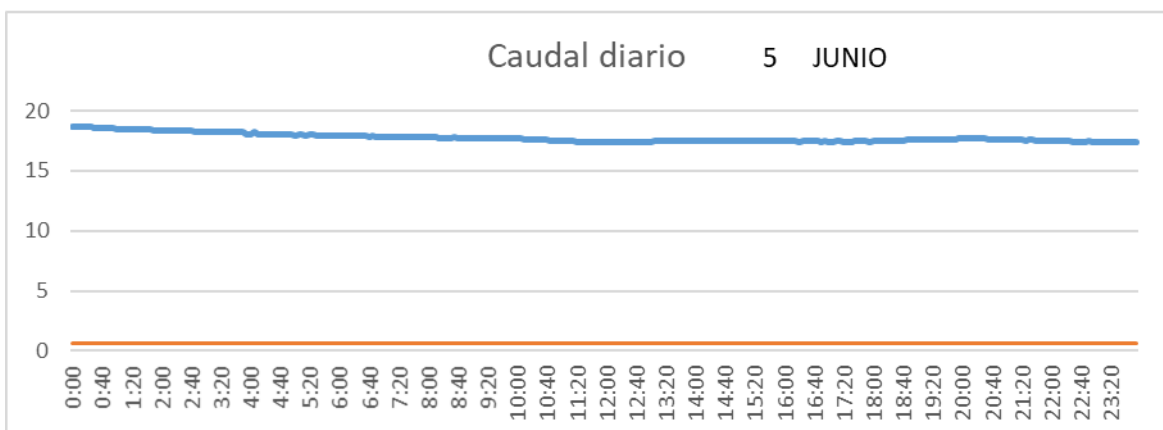
SALIDA TOBA



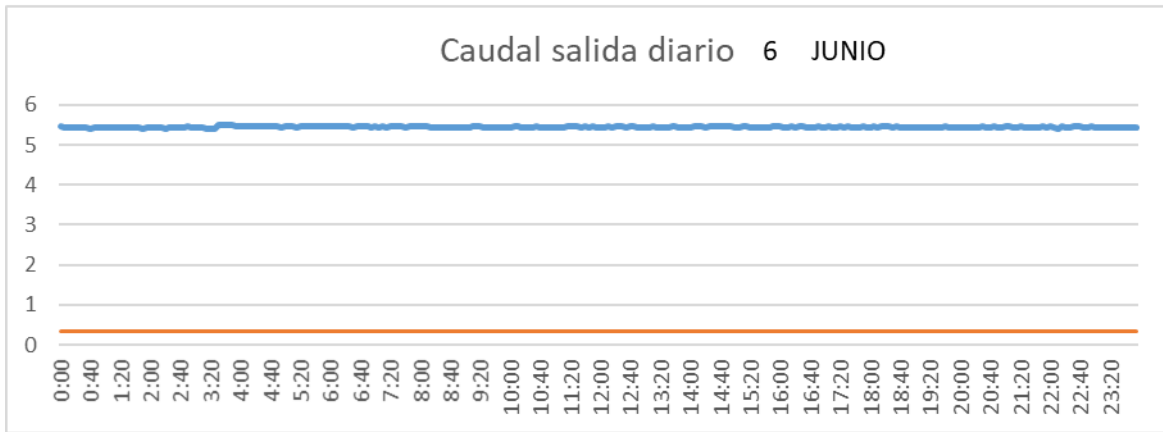
CUENCA



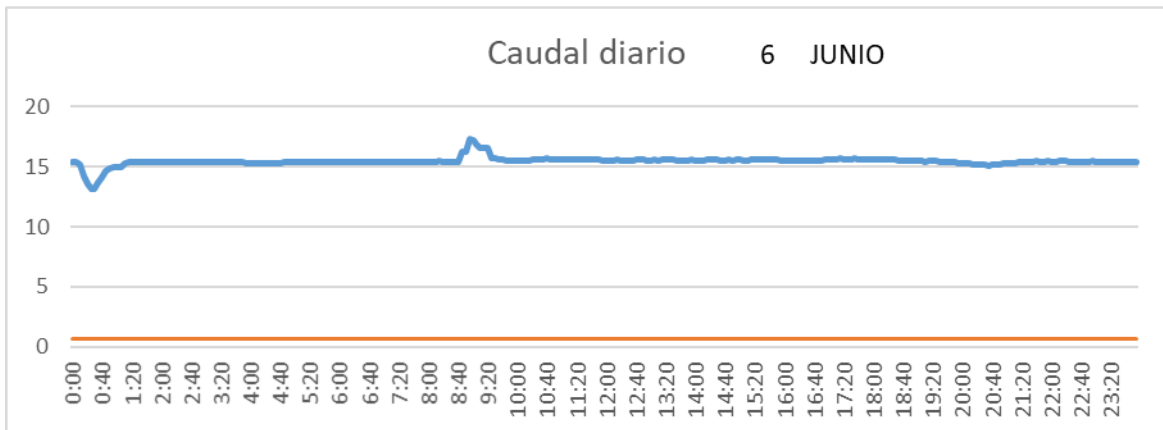
SAN LORENZO PARRILLA



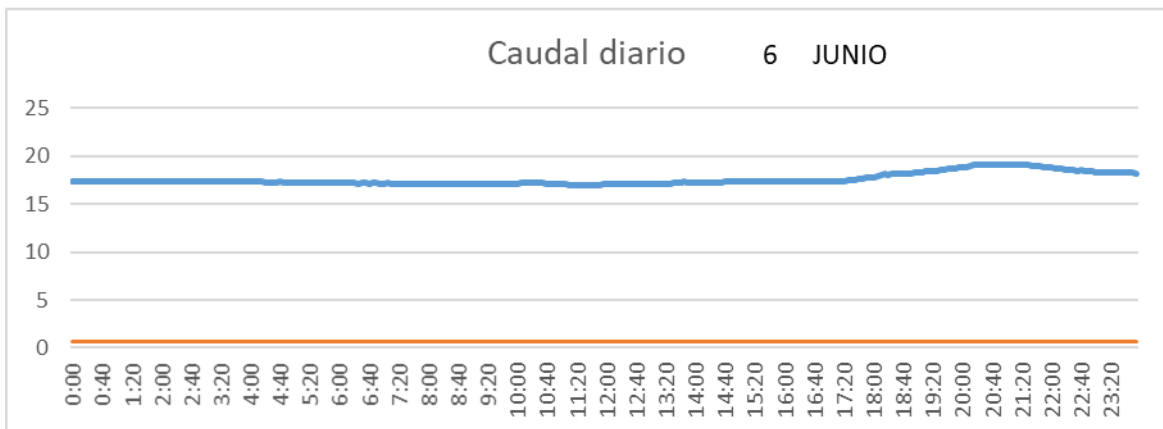
SALIDA TOBA



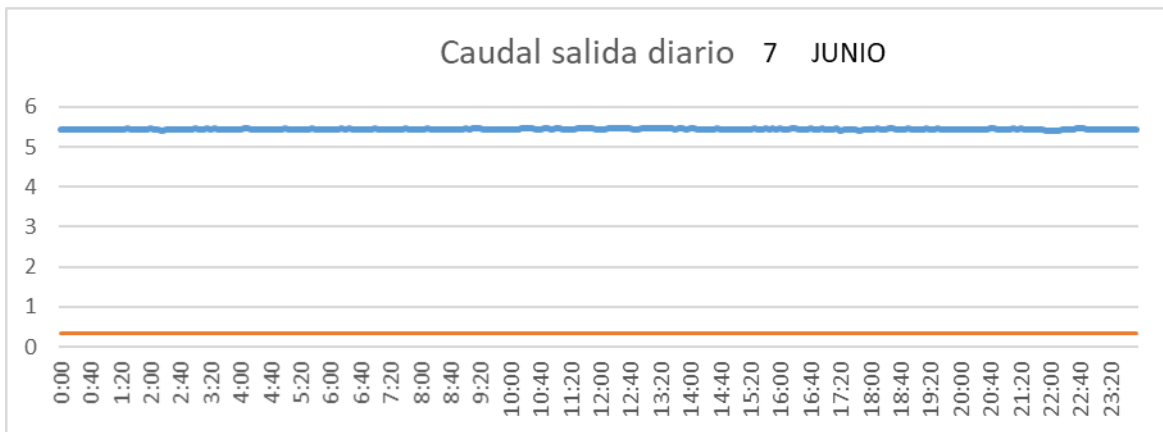
CUENCA



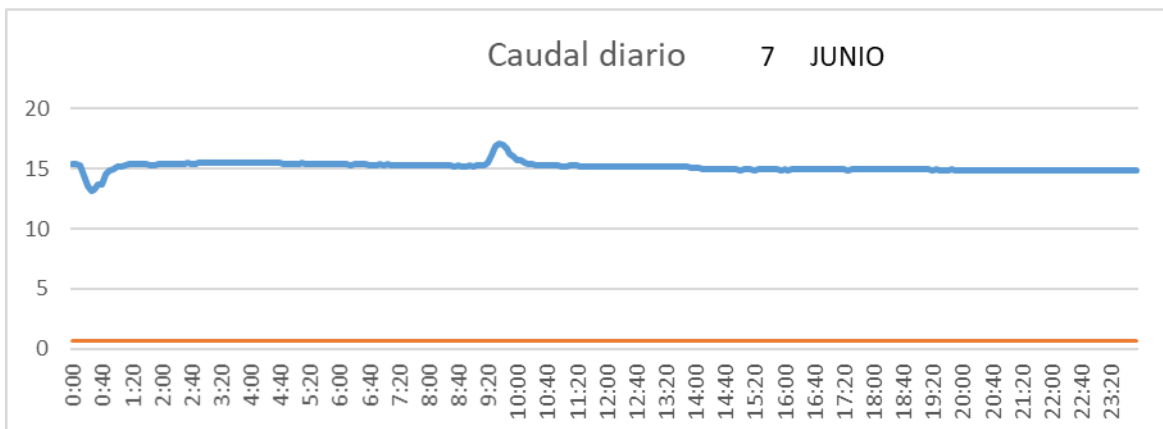
SAN LORENZO PARRILLA



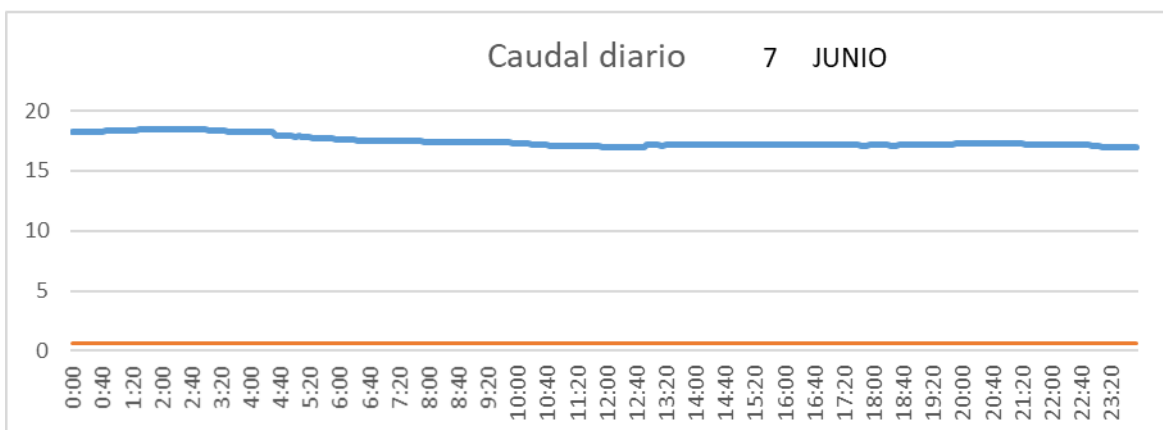
SALIDA TOBA



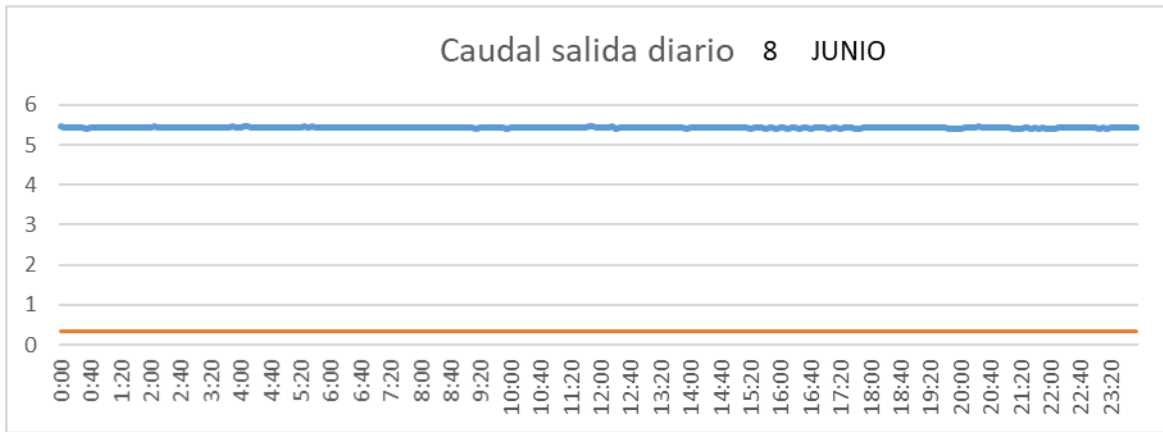
CUENCA



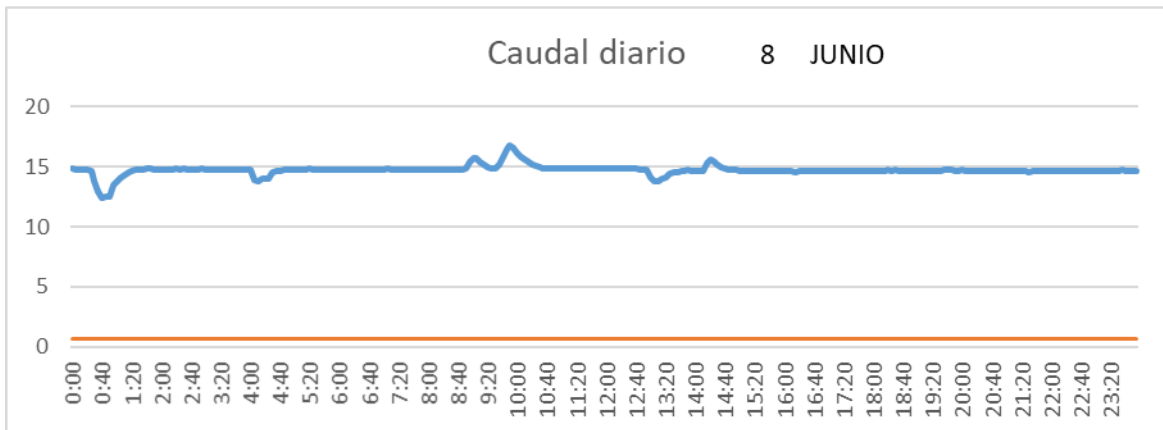
SAN LORENZO PARRILLA



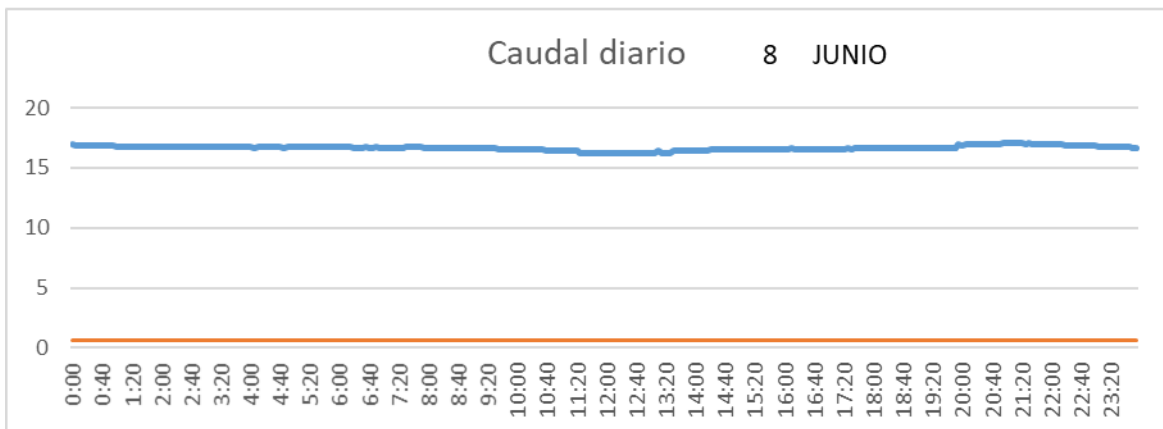
SALIDA TOBA



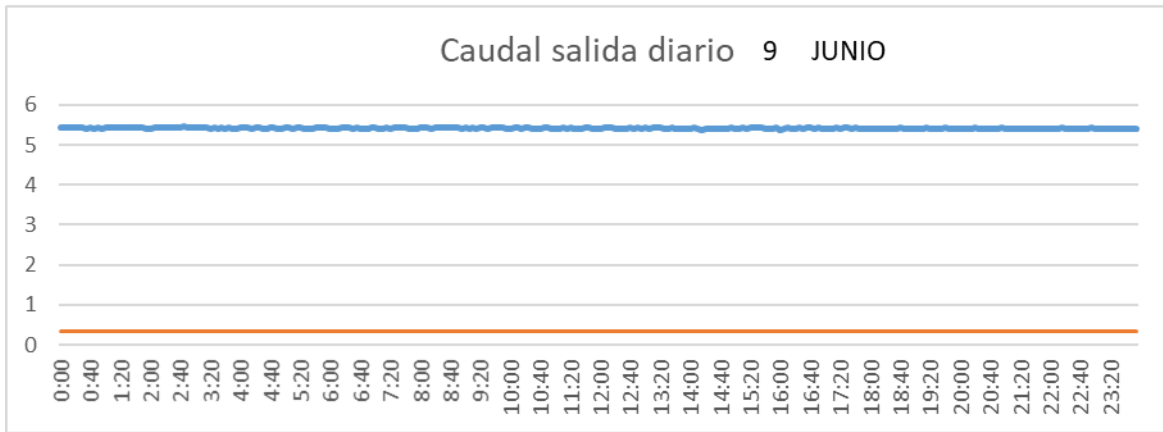
CUENCA



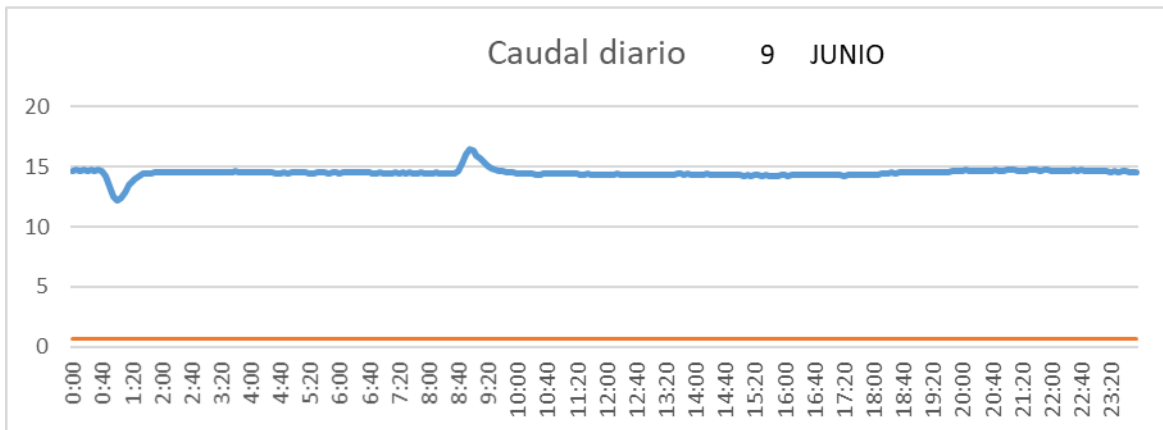
SAN LORENZO PARRILLA



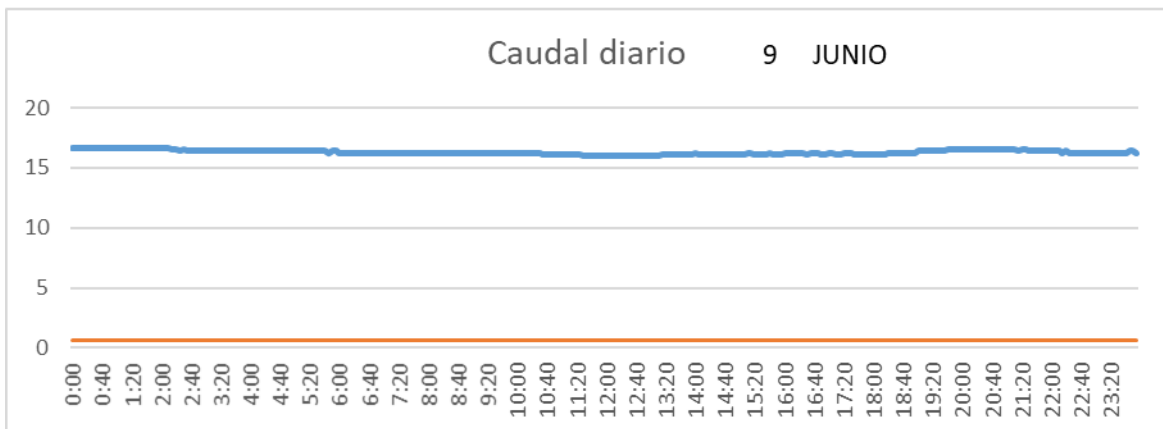
SALIDA TOBA



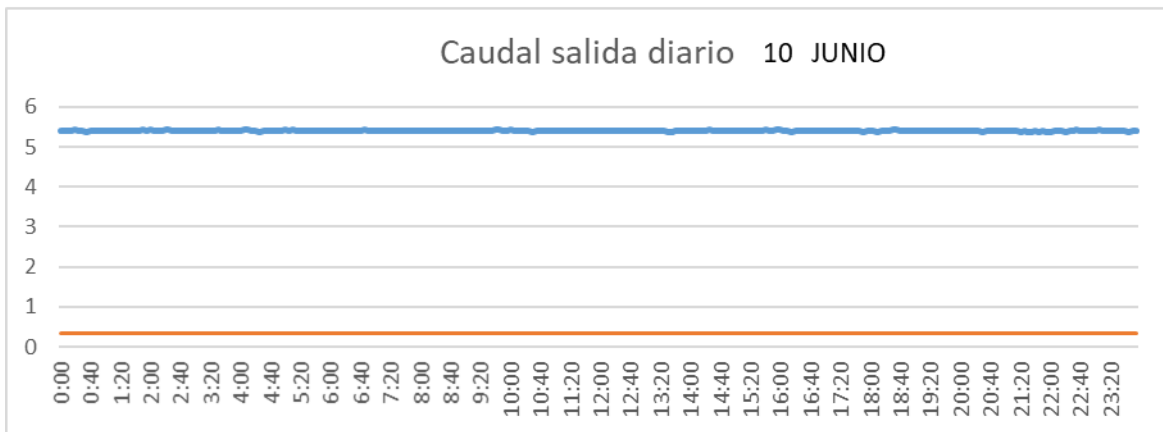
CUENCA



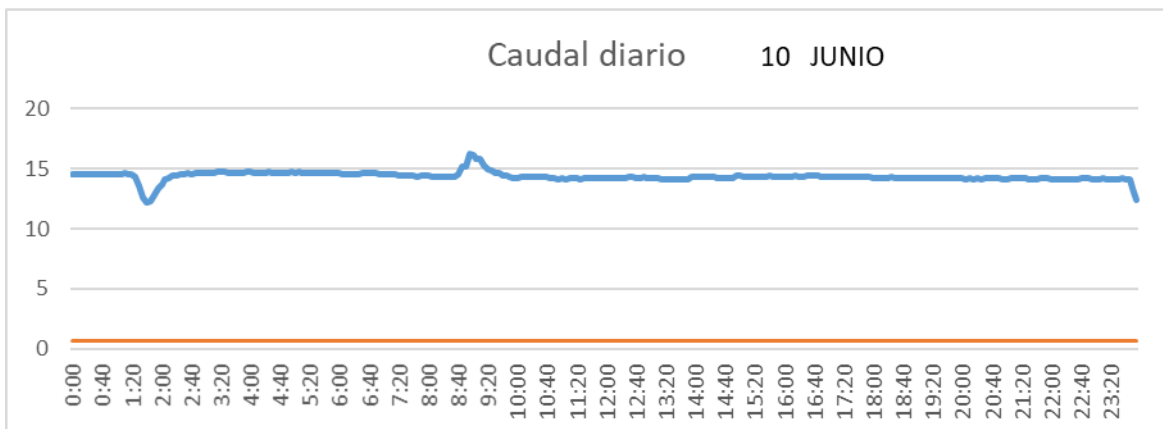
SAN LORENZO PARRILLA



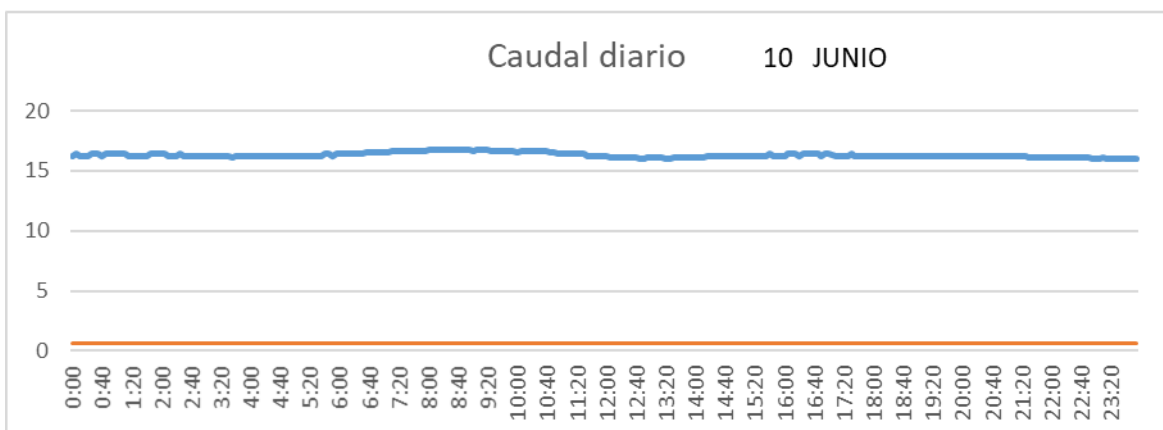
SALIDA TOBA



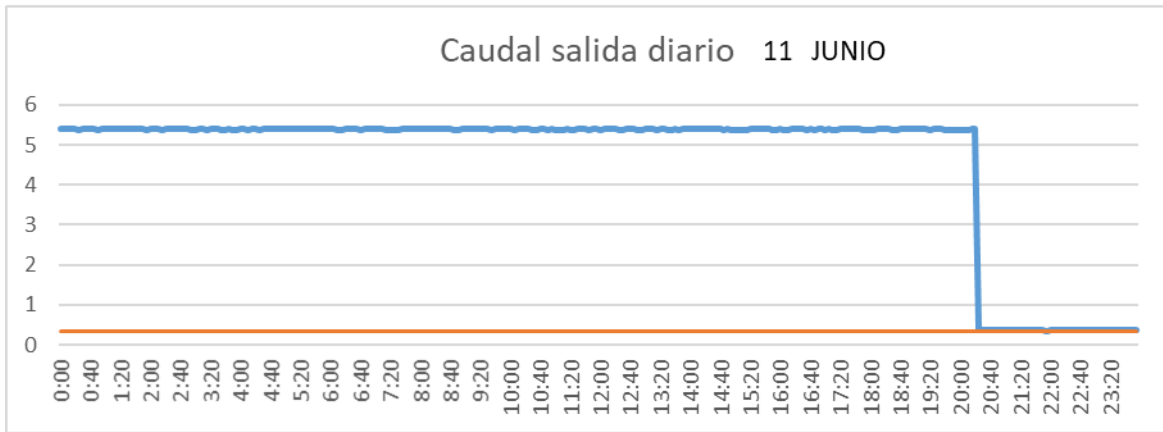
CUENCA



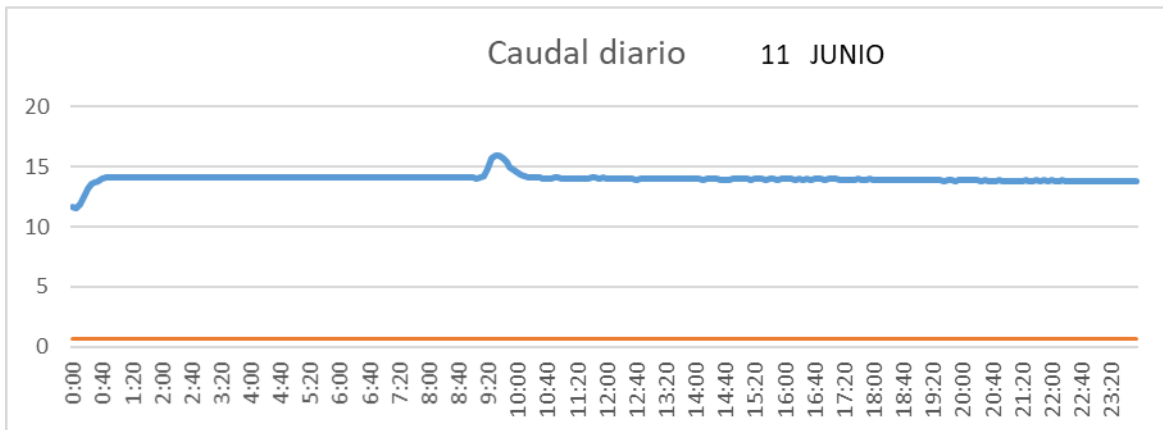
SAN LORENZO PARRILLA



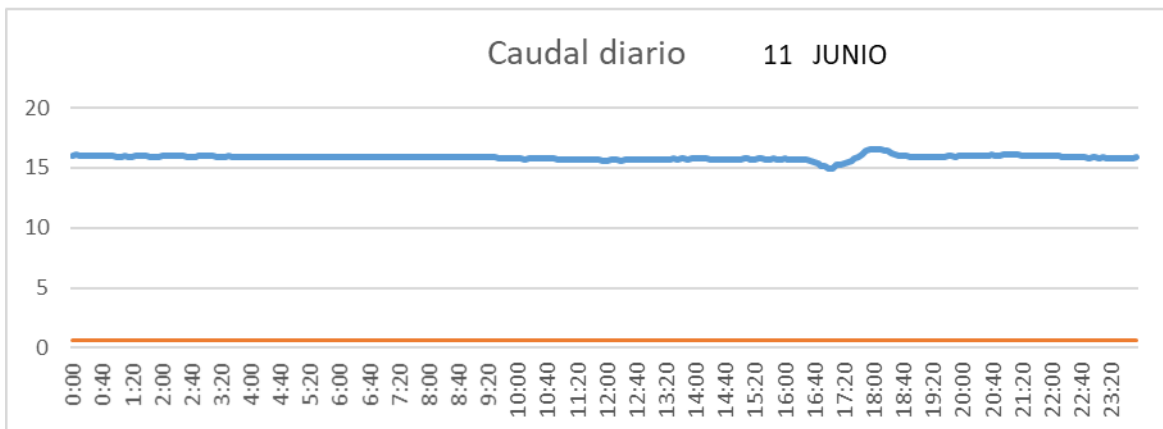
SALIDA TOBA



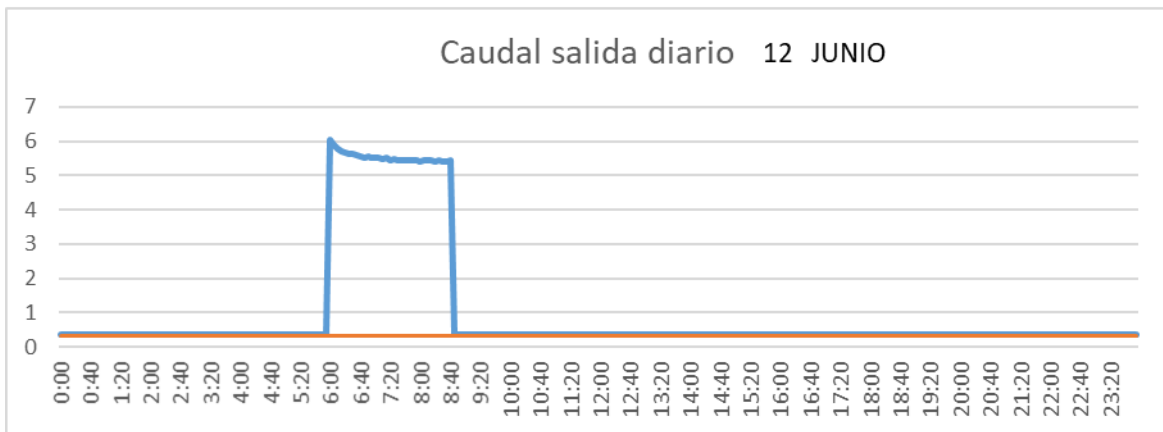
CUENCA



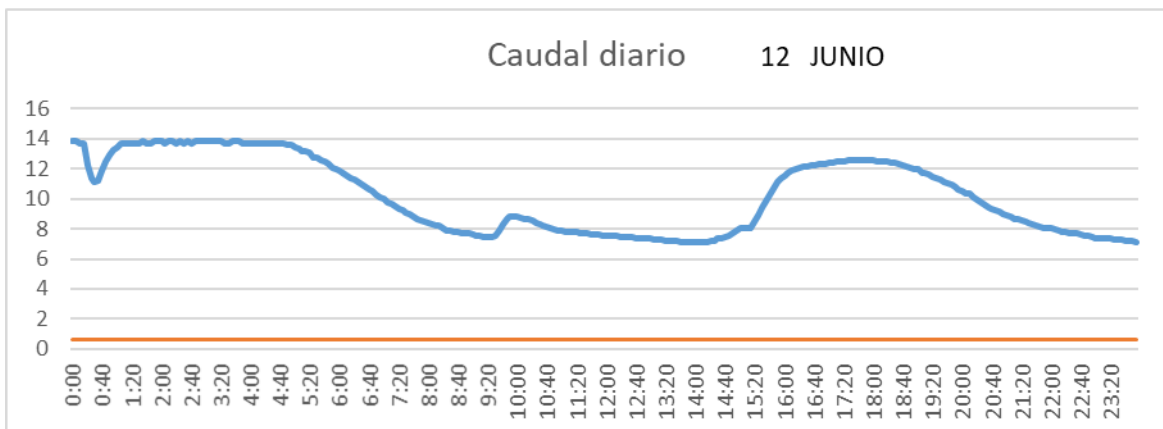
SAN LORENZO PARRILLA



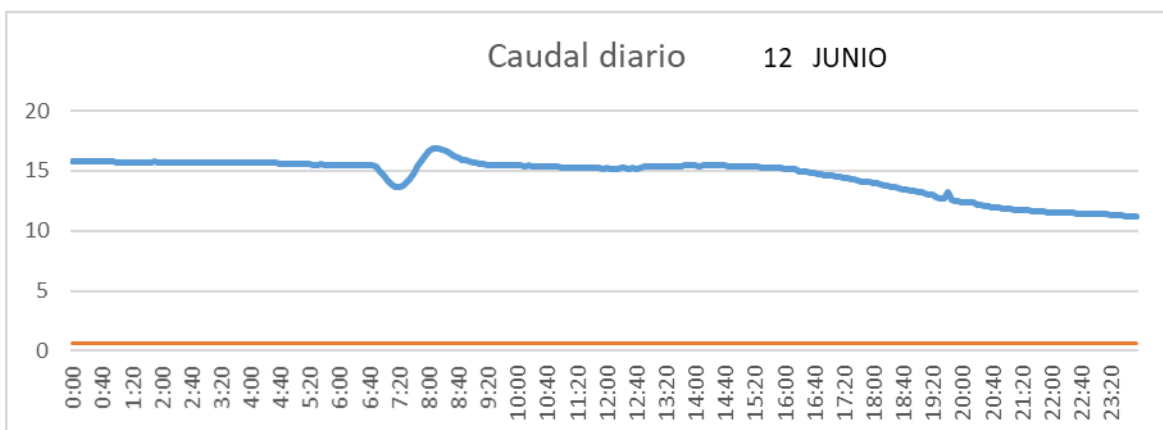
SALIDA TOBA



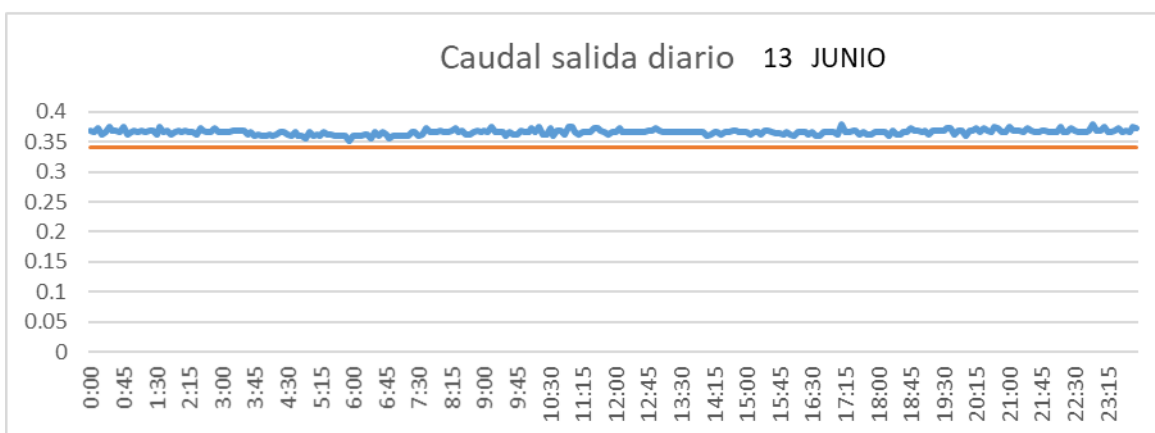
CUENCA



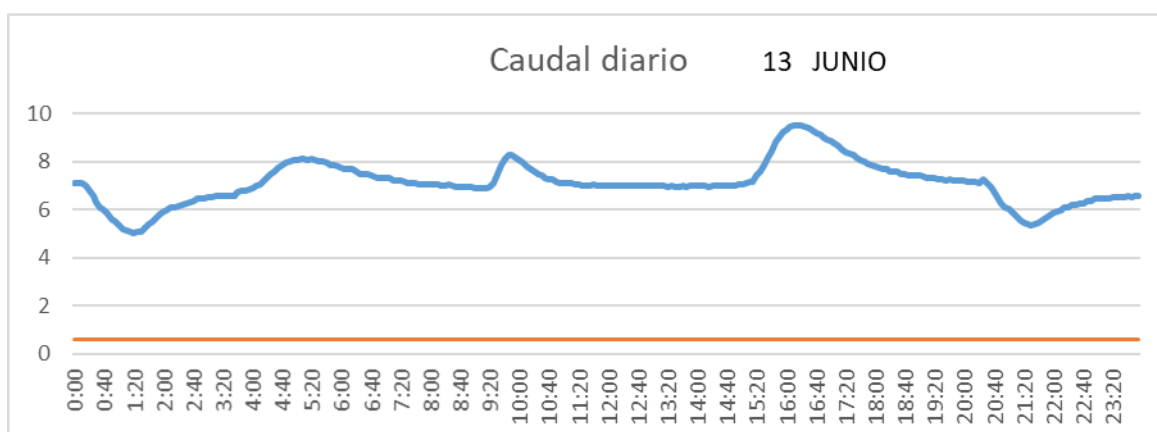
SAN LORENZO PARRILLA



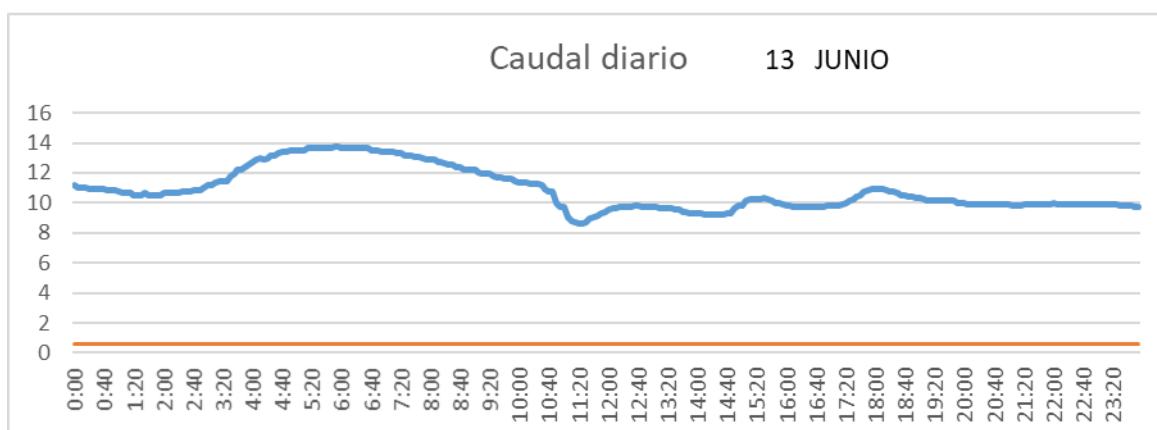
SALIDA TOBA



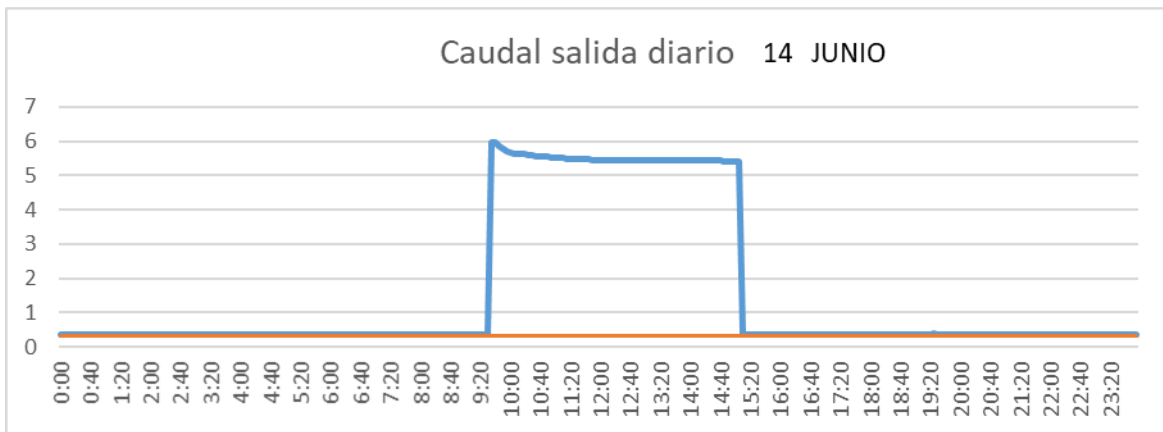
CUENCA



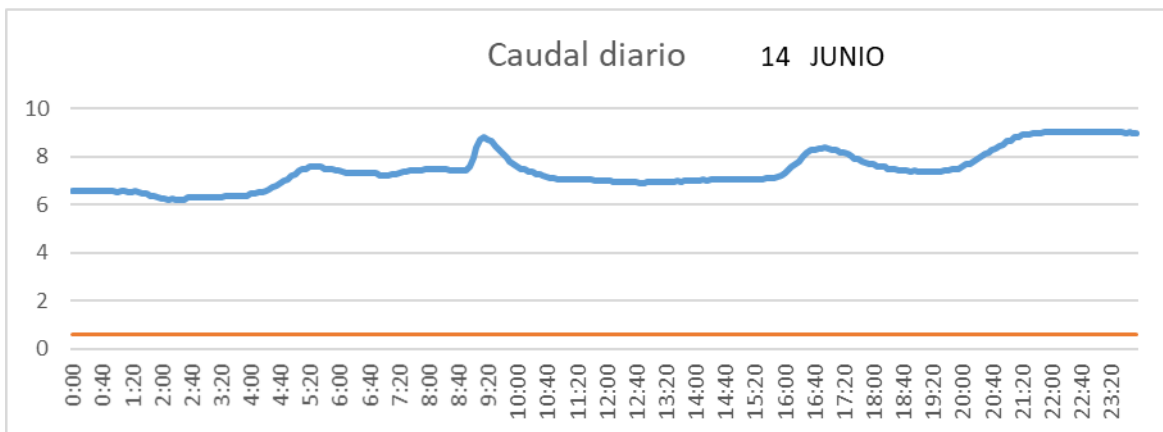
SAN LORENZO PARRILLA



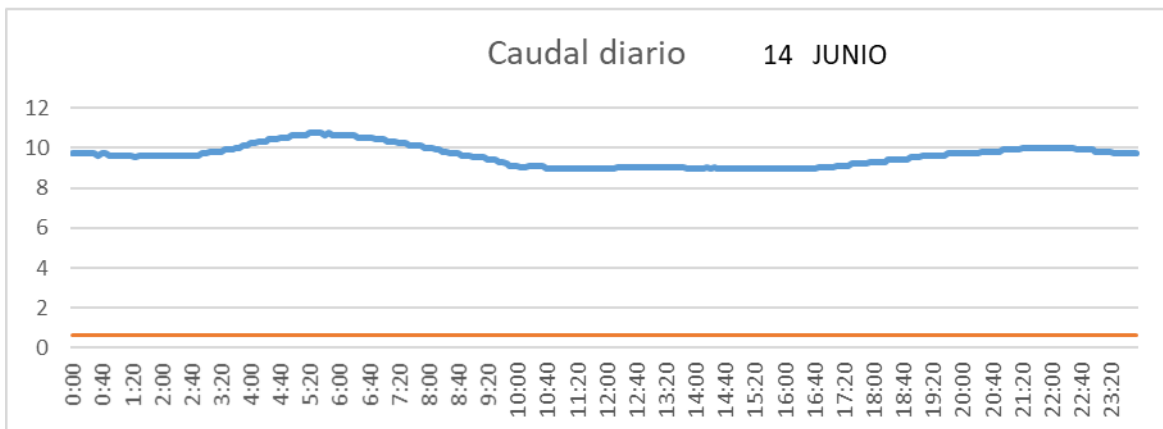
SALIDA TOBA



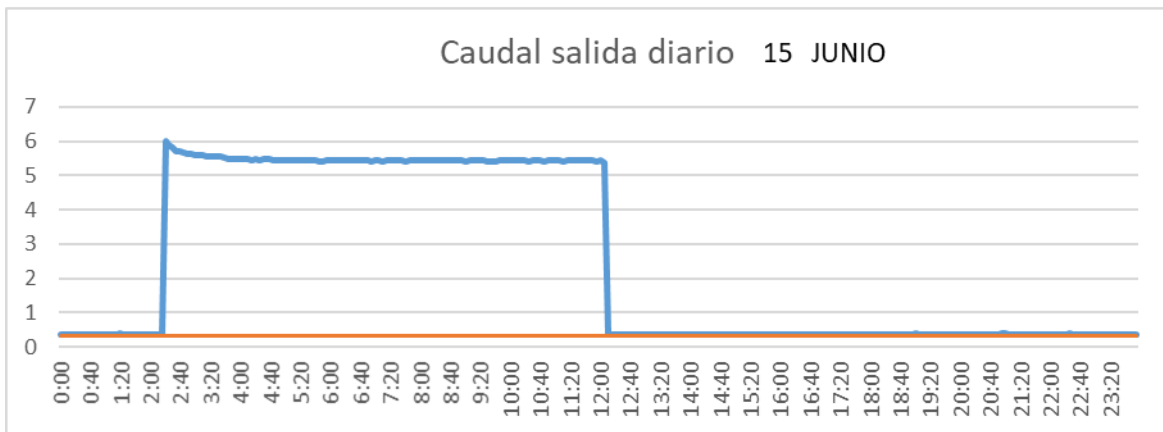
CUENCA



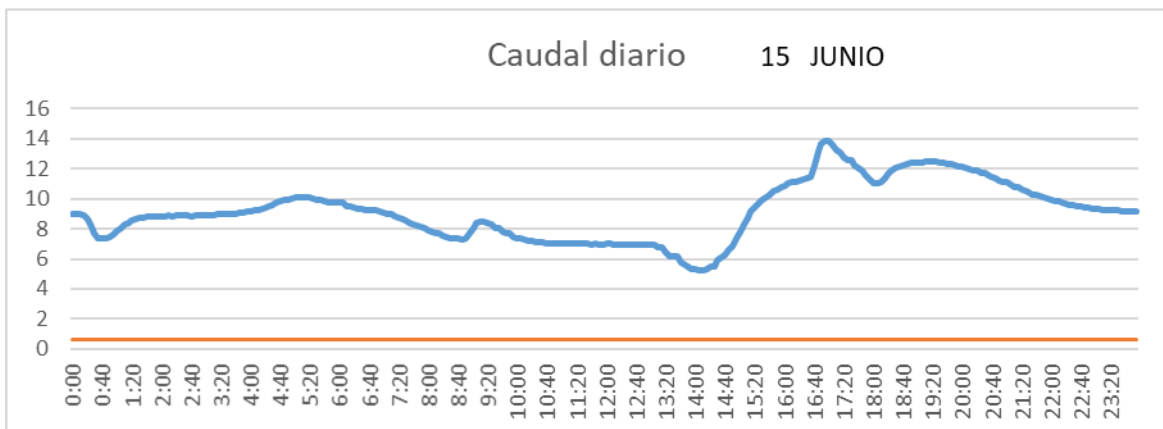
SAN LORENZO PARRILLA



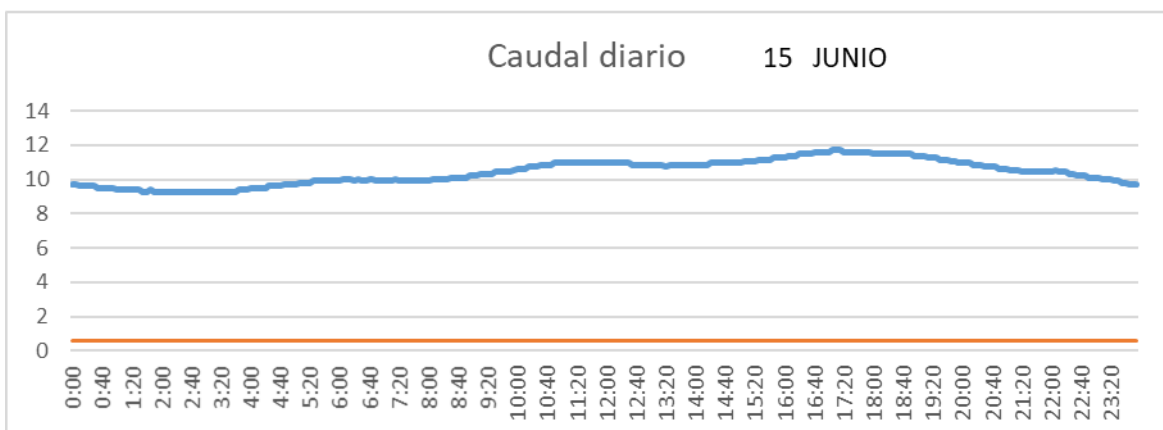
SALIDA TOBA



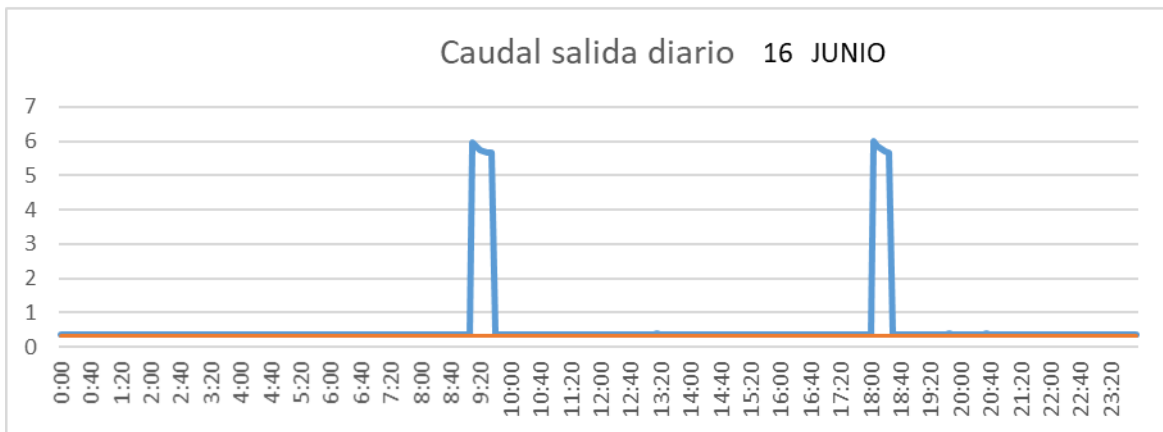
CUENCA



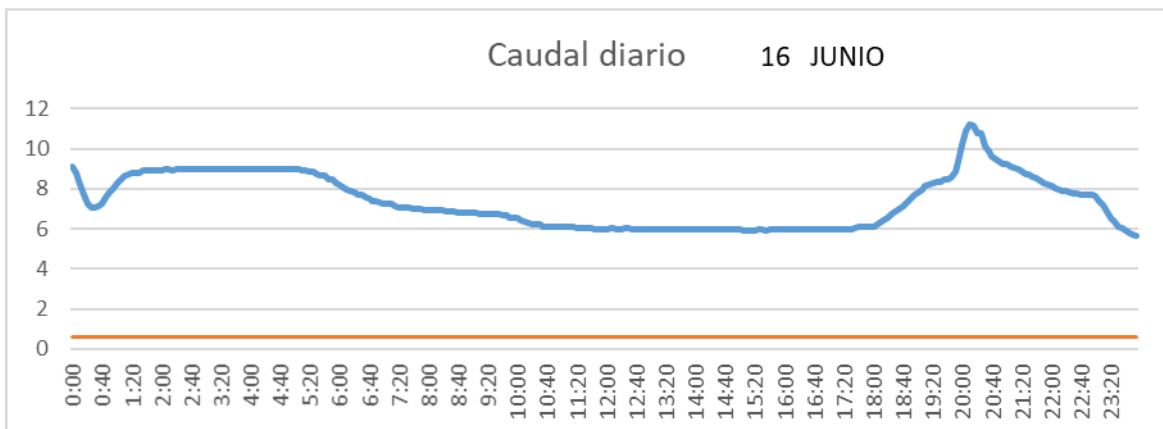
SAN LORENZO PARRILLA



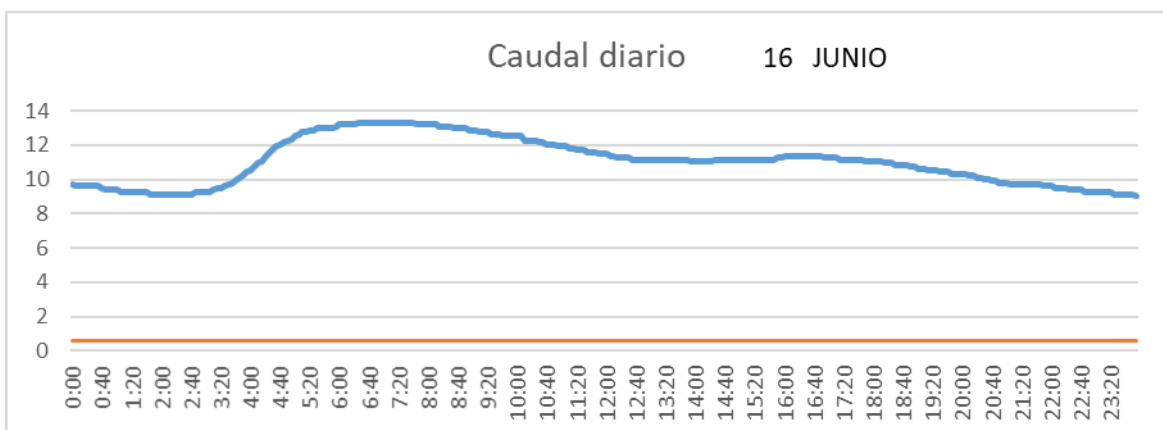
SALIDA TOBA



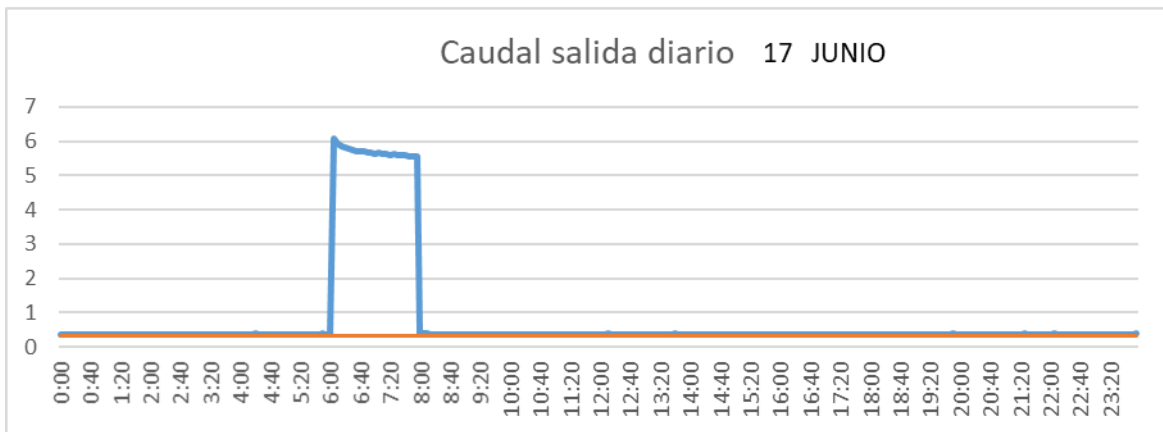
CUENCA



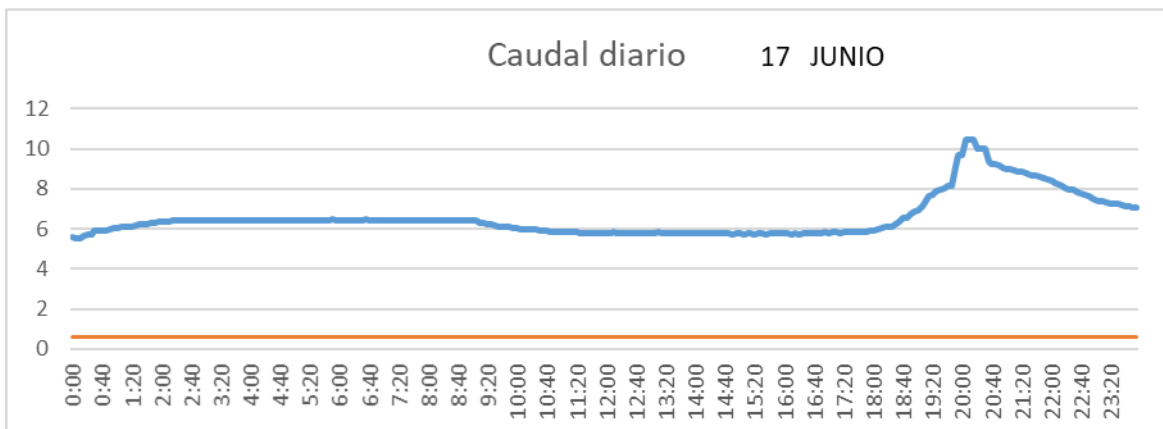
SAN LORENZO PARRILLA



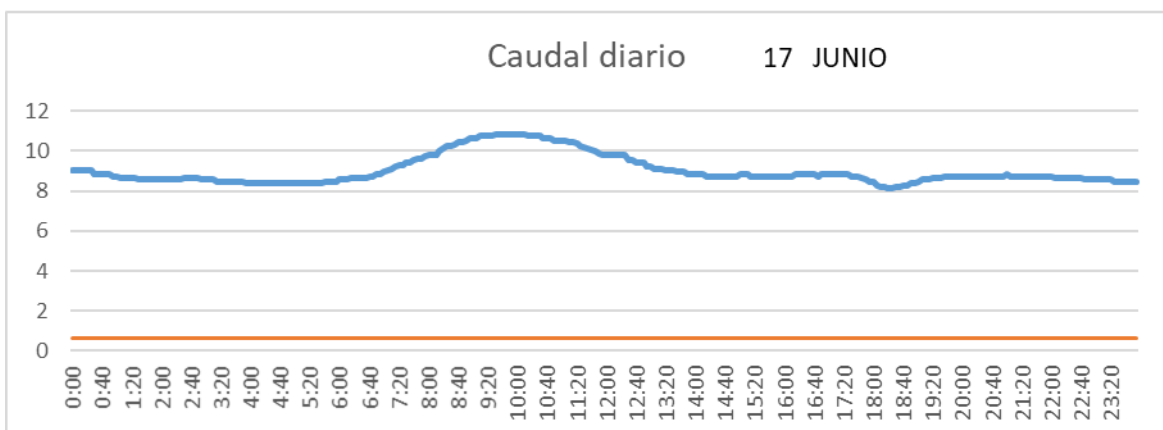
SALIDA TOBA



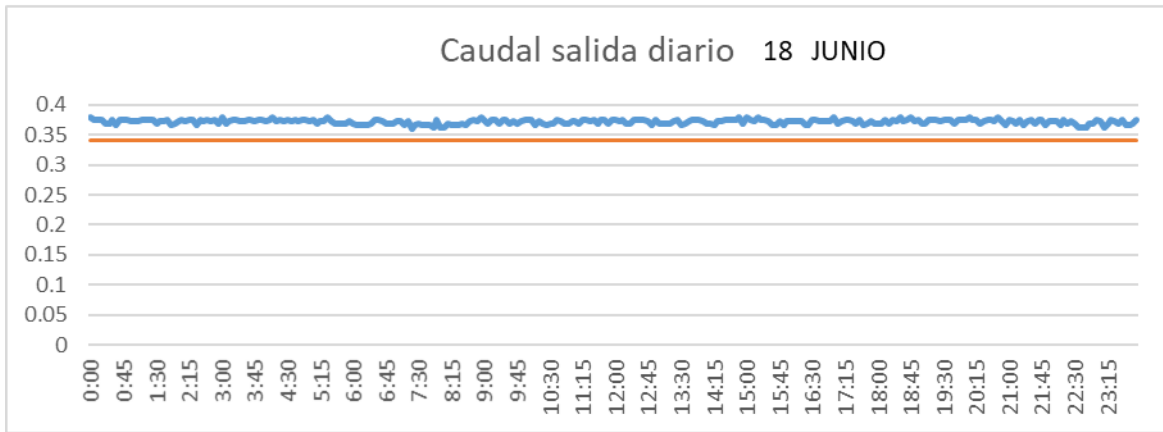
CUENCA



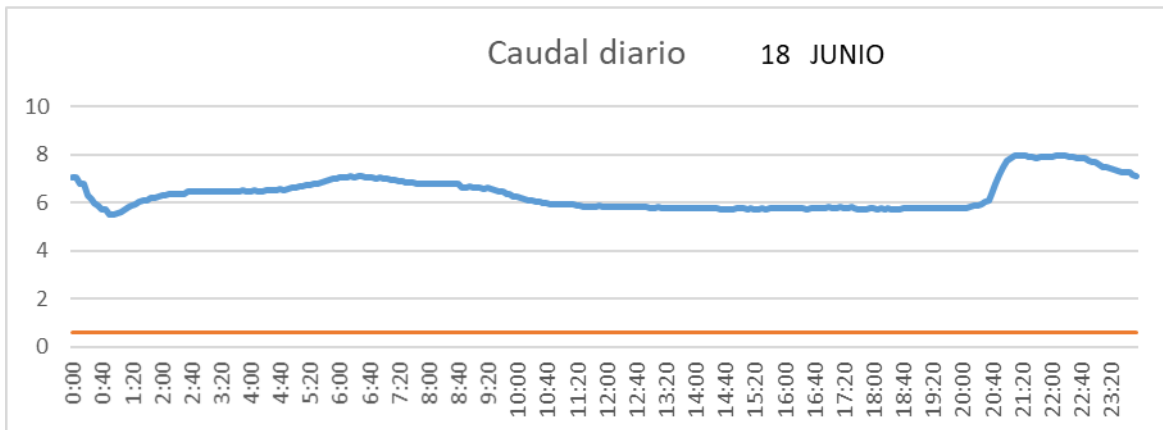
SAN LORENZO PARRILLA



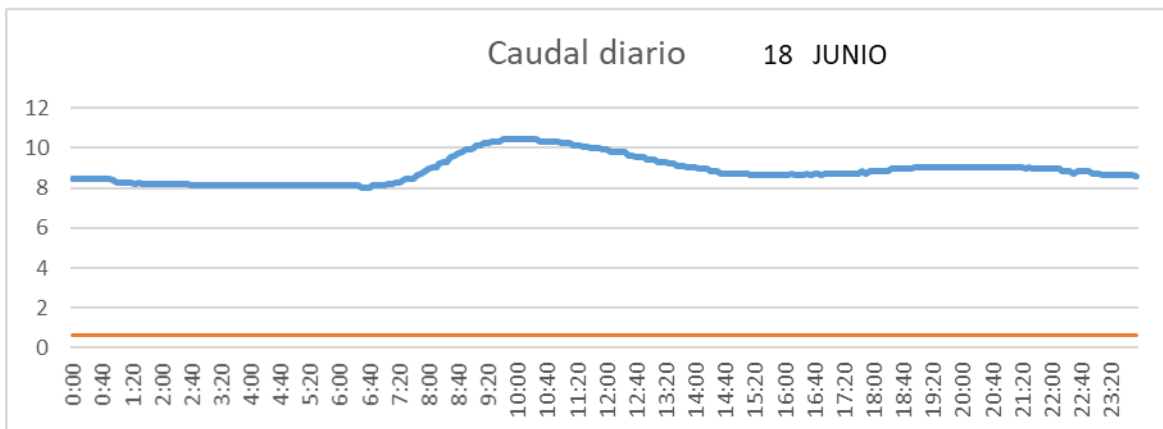
SALIDA TOBA



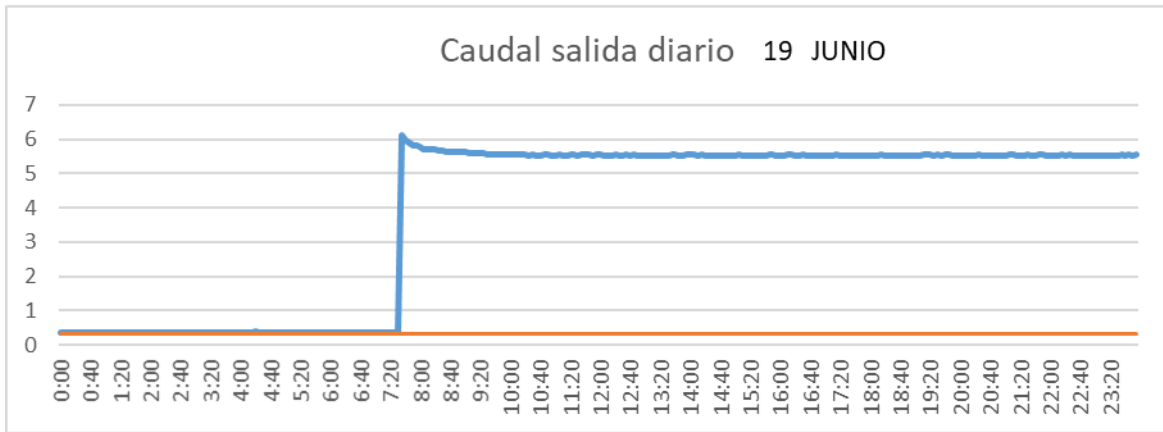
CUENCA



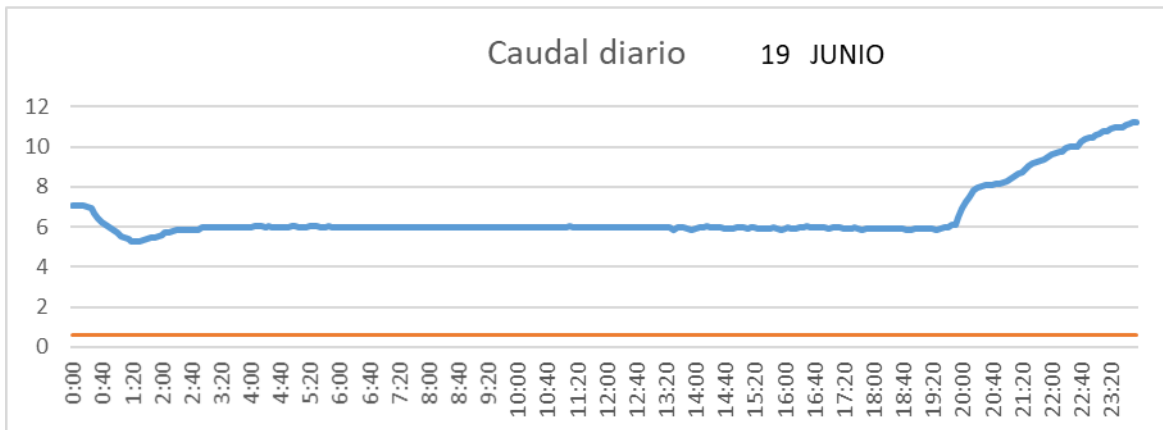
SAN LORENZO PARRILLA



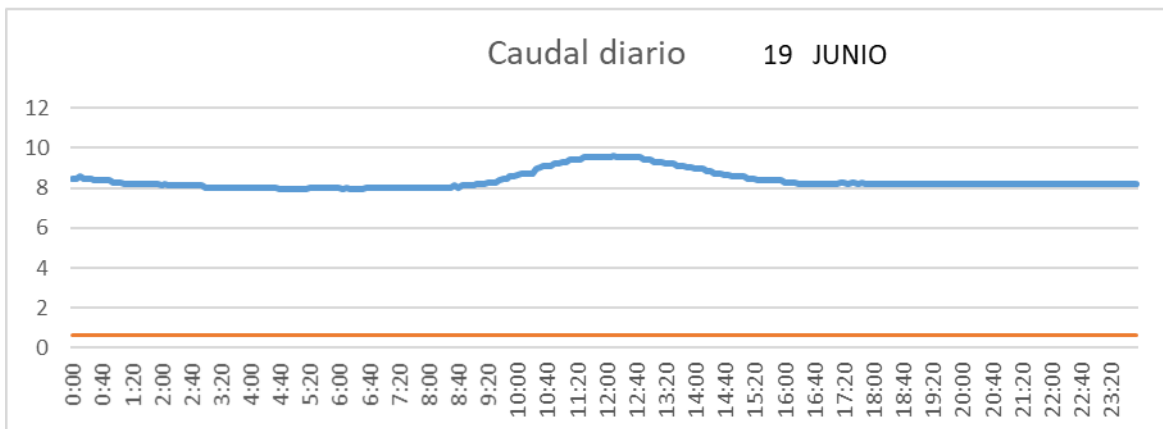
SALIDA TOBA



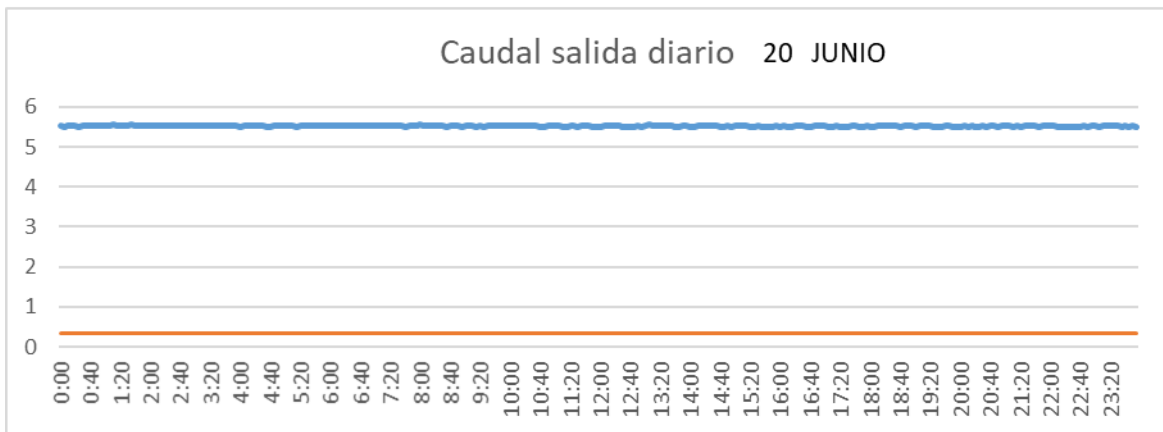
CUENCA



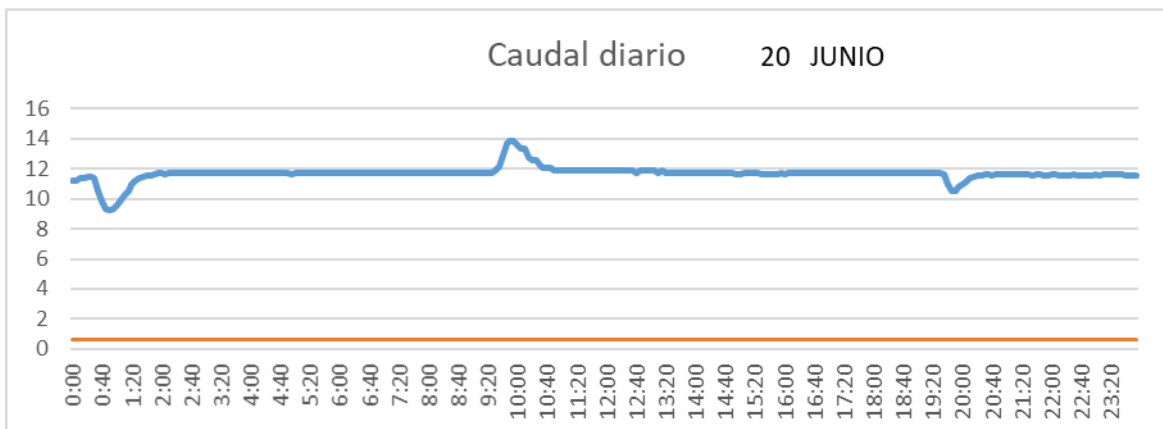
SAN LORENZO PARRILLA



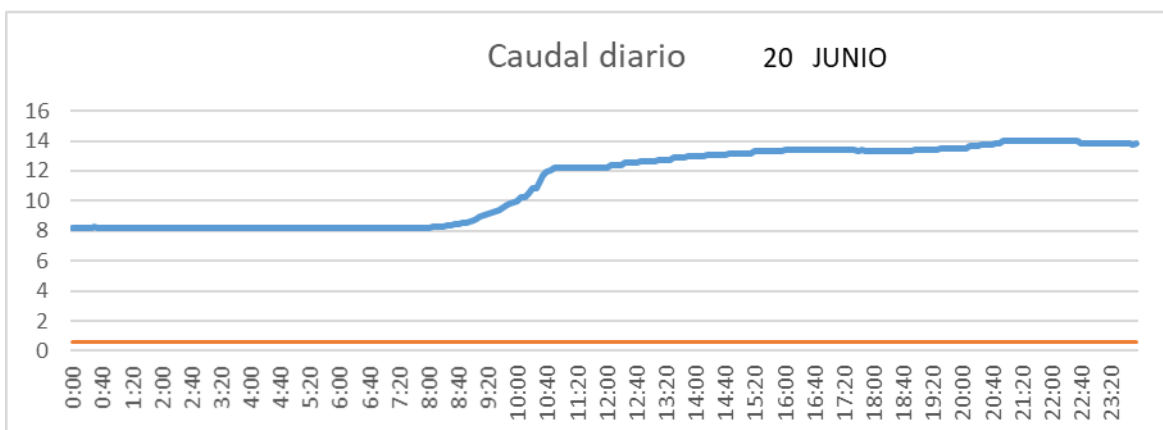
SALIDA TOBA



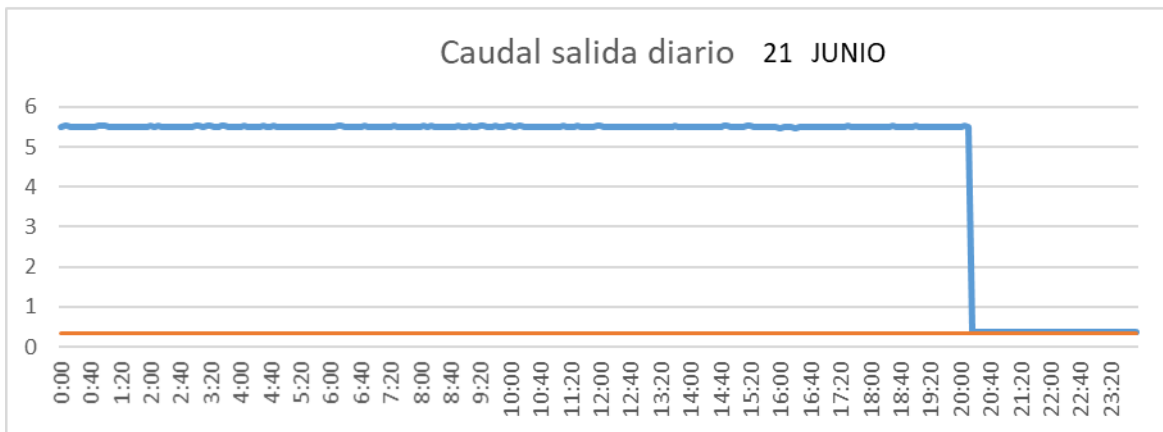
CUENCA



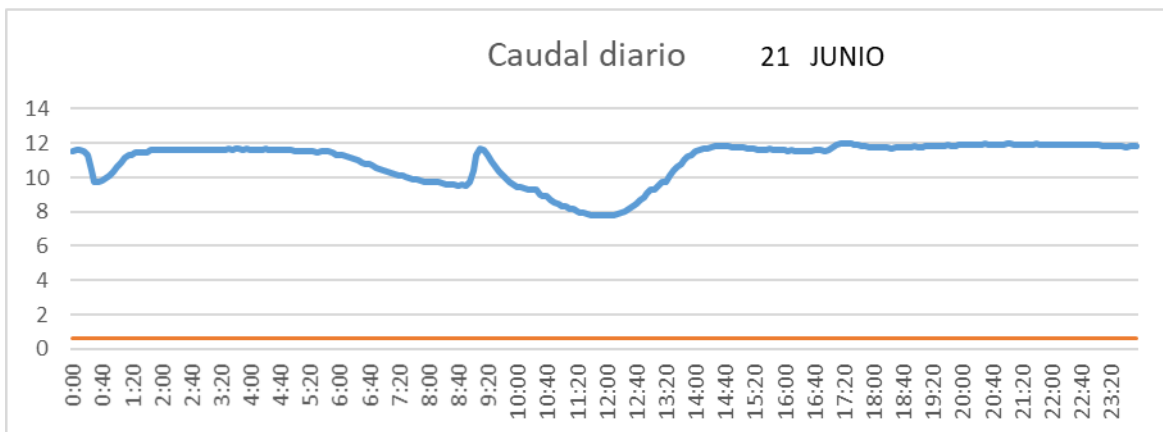
SAN LORENZO PARRILLA



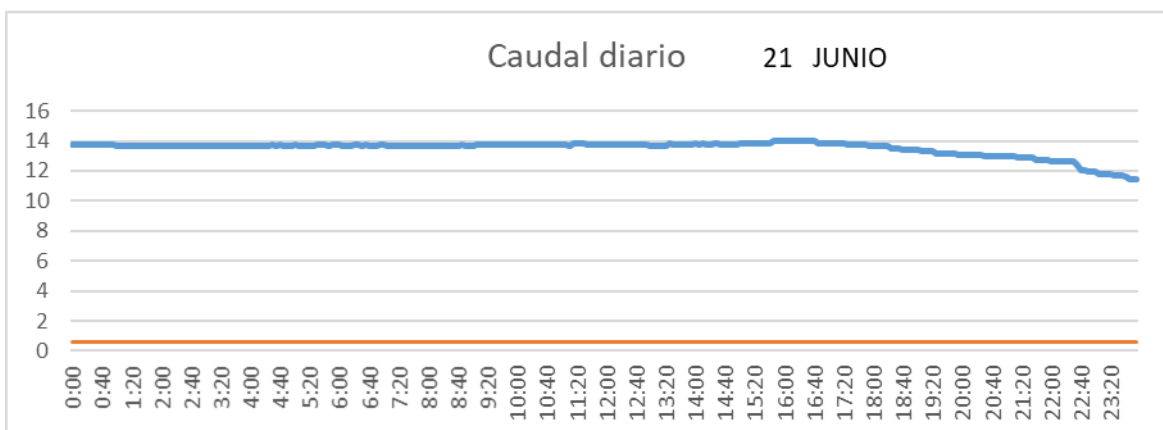
SALIDA TOBA



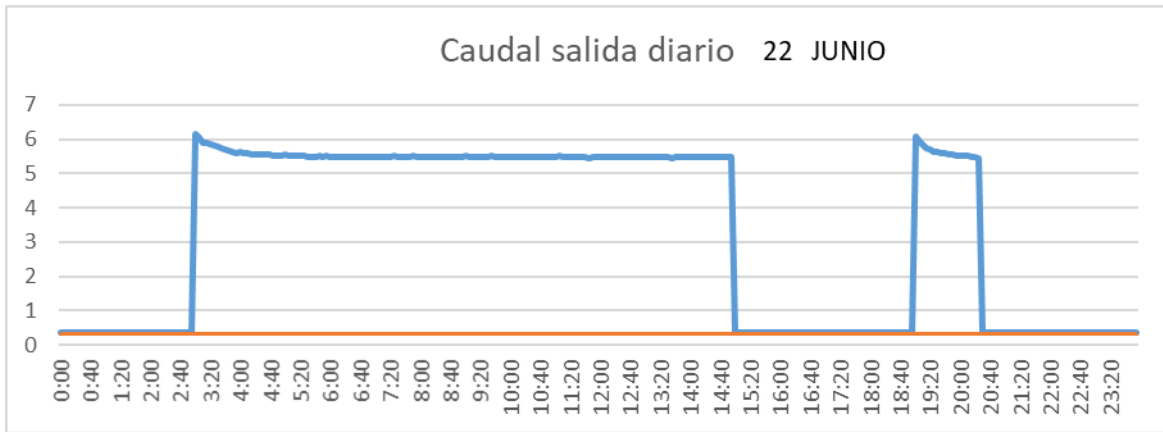
CUENCA



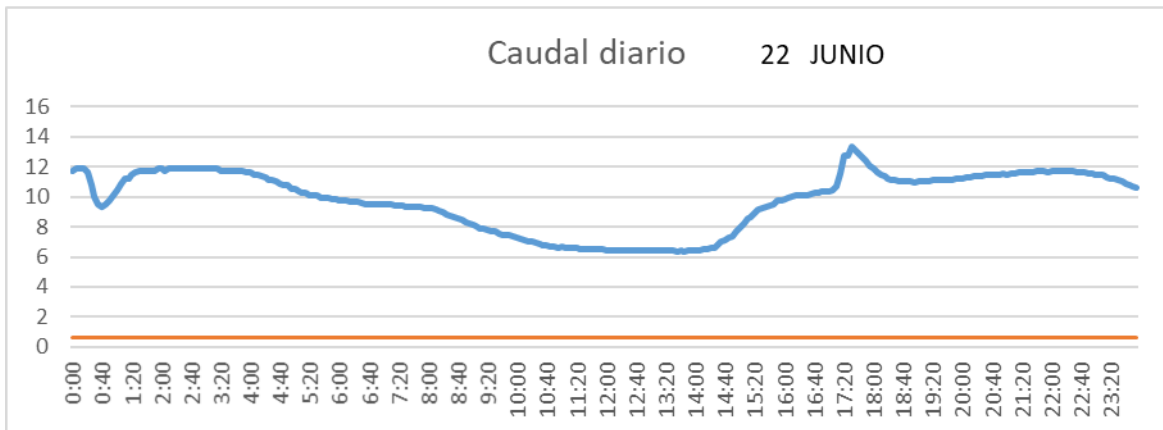
SAN LORENZO PARRILLA



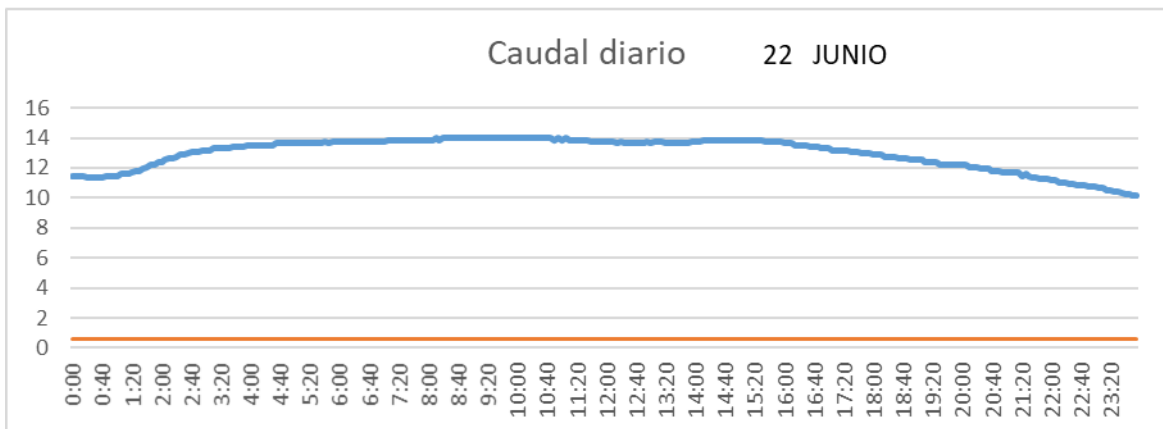
SALIDA TOBA



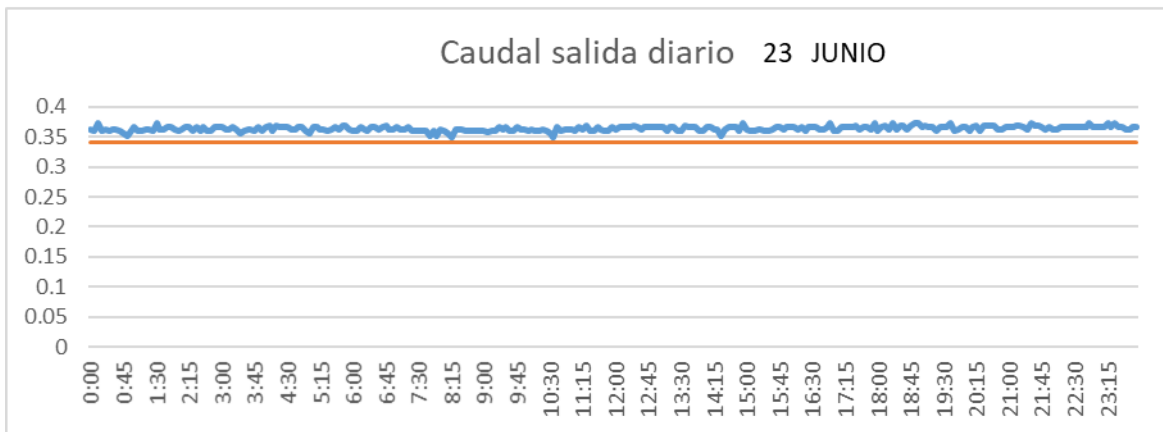
CUENCA



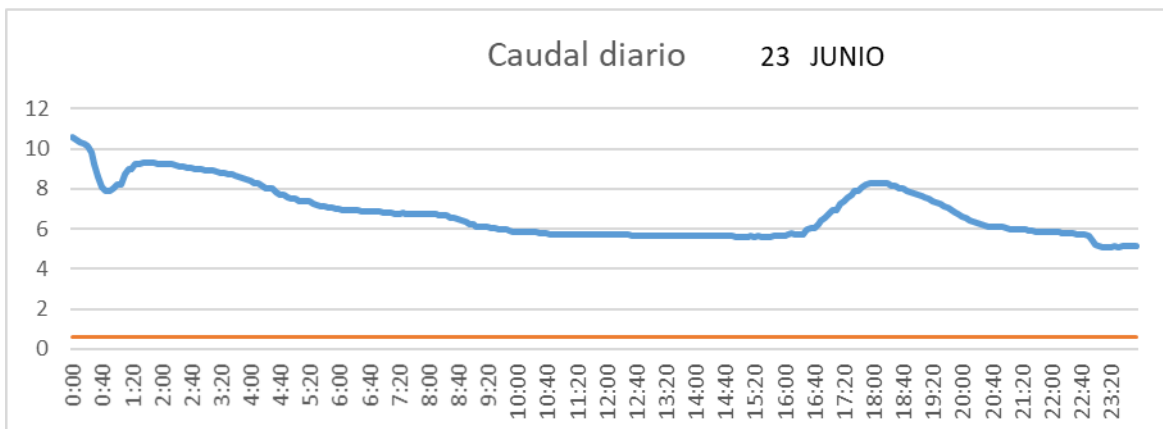
SAN LORENZO PARRILLA



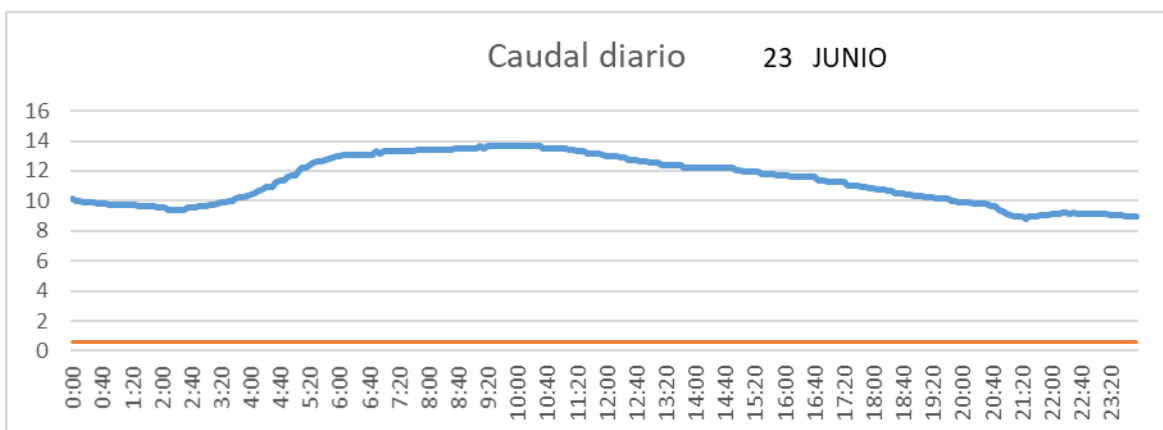
SALIDA TOBA



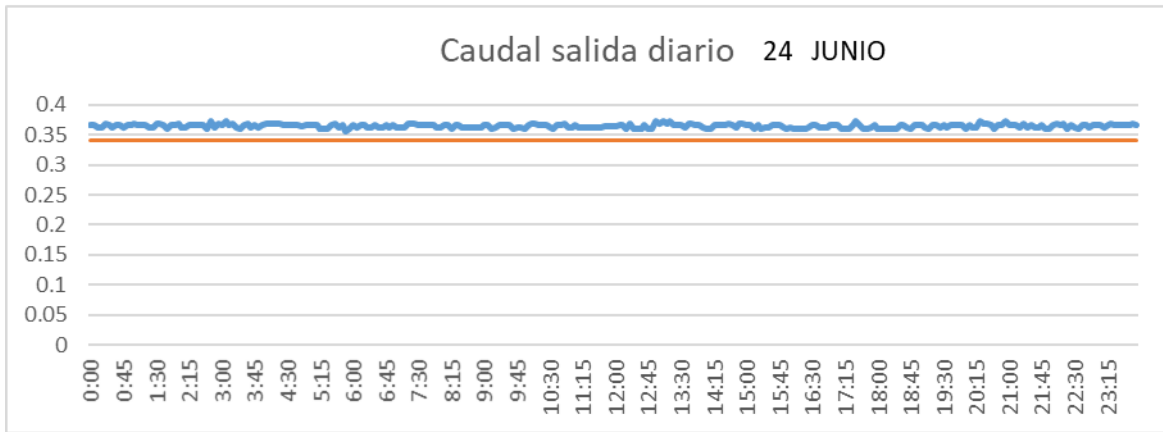
CUENCA



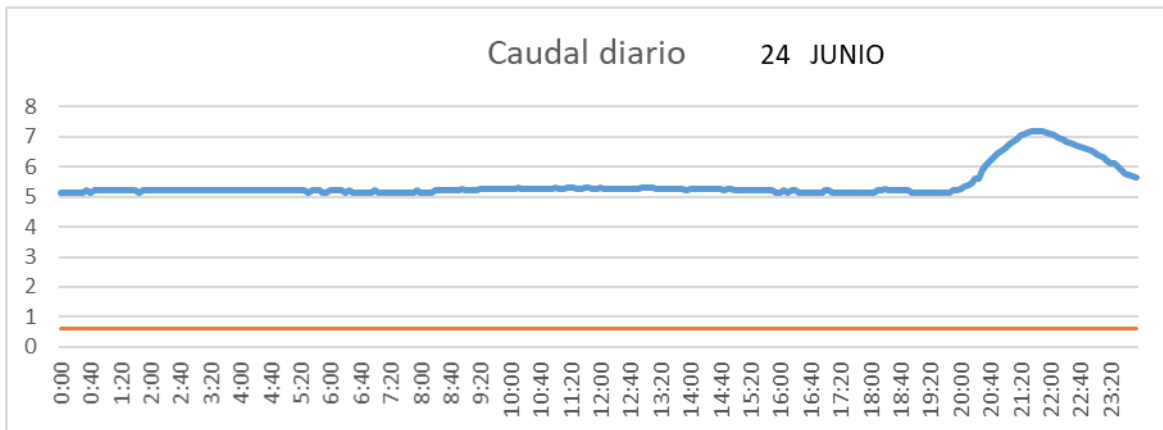
SAN LORENZO PARRILLA



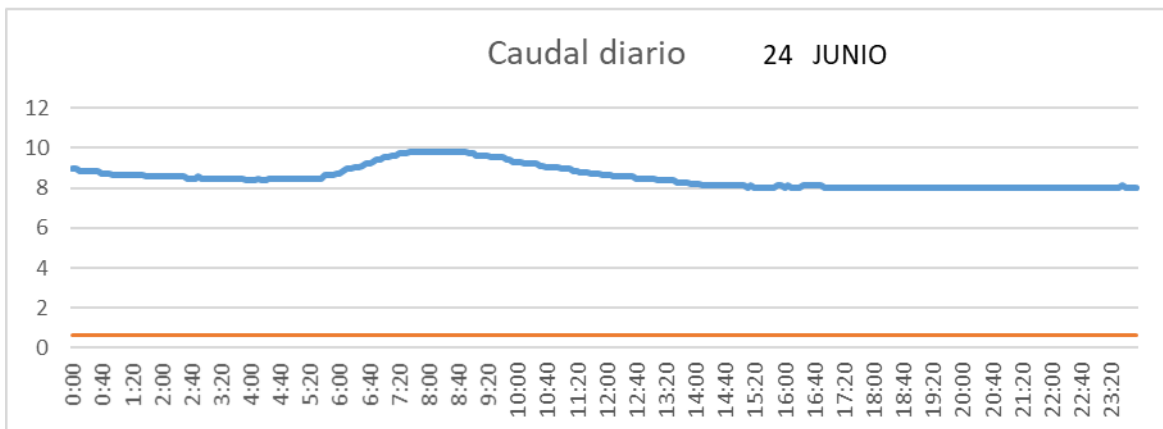
SALIDA TOBA



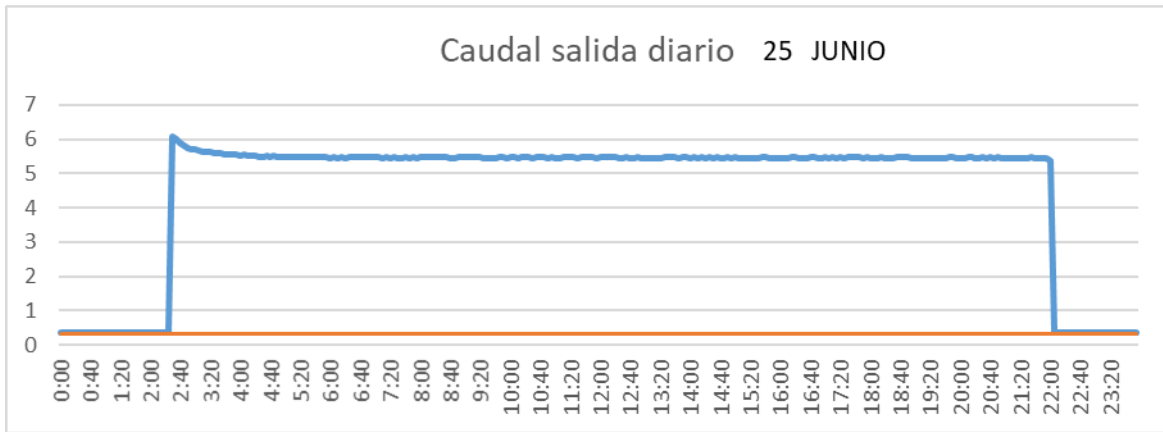
CUENCA



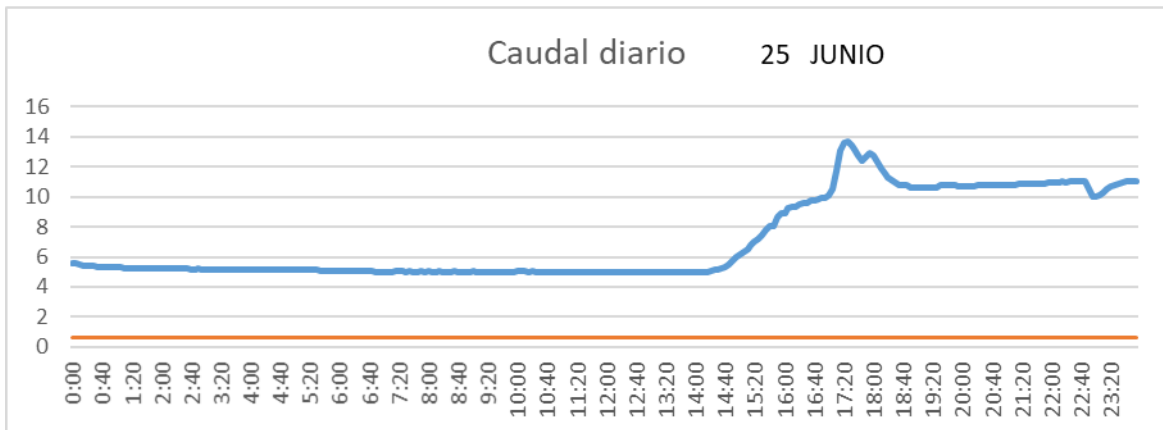
SAN LORENZO PARRILLA



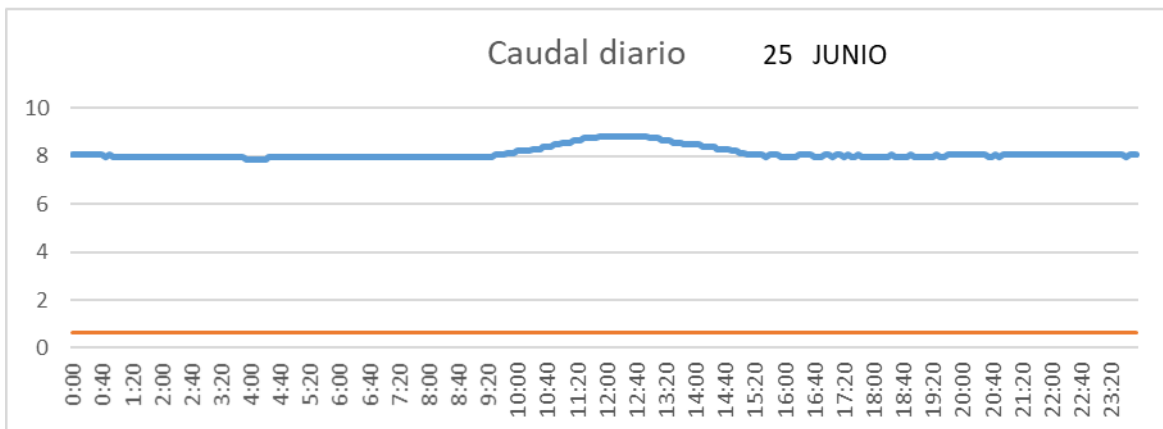
SALIDA TOBA



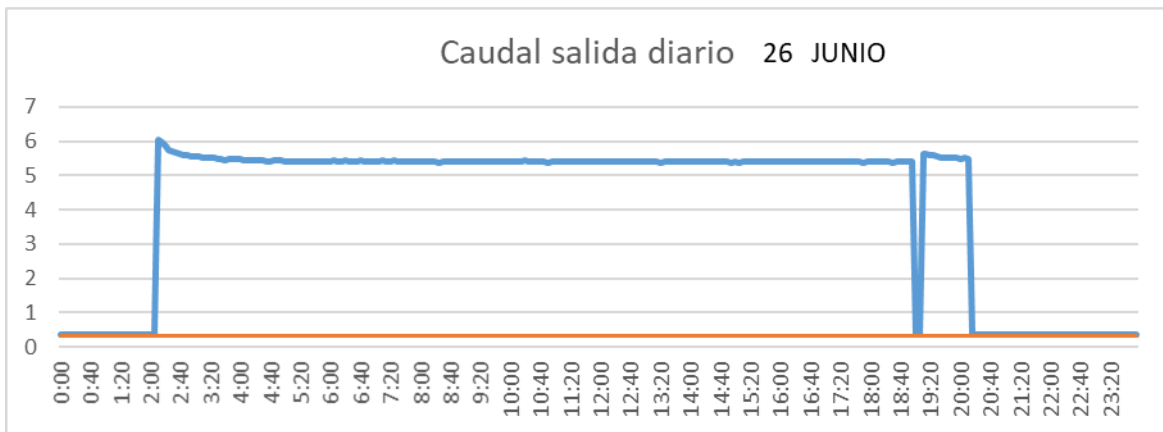
CUENCA



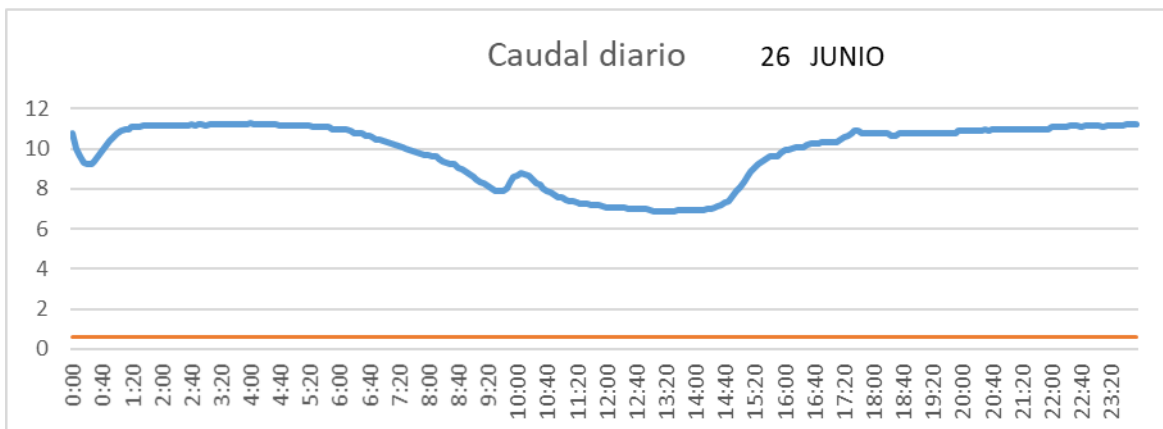
SAN LORENZO PARRILLA



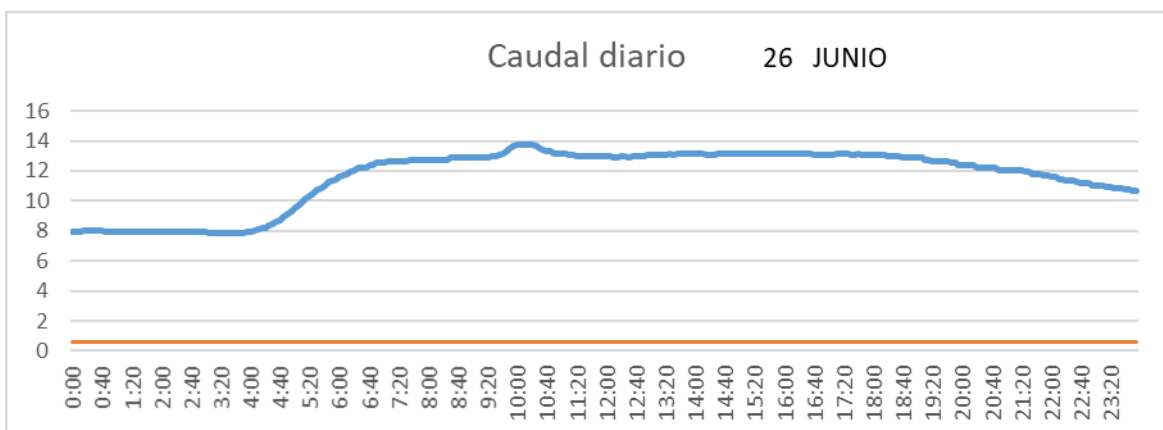
SALIDA TOBA



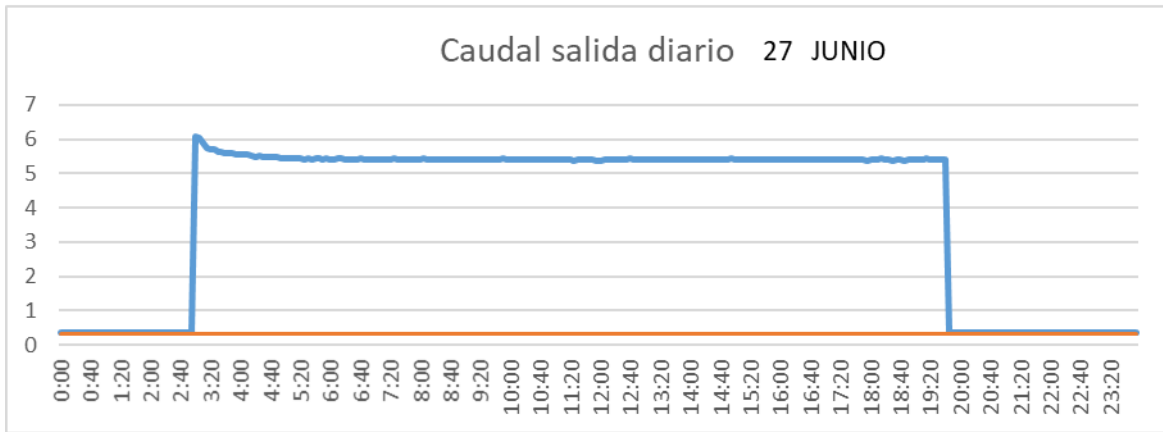
CUENCA



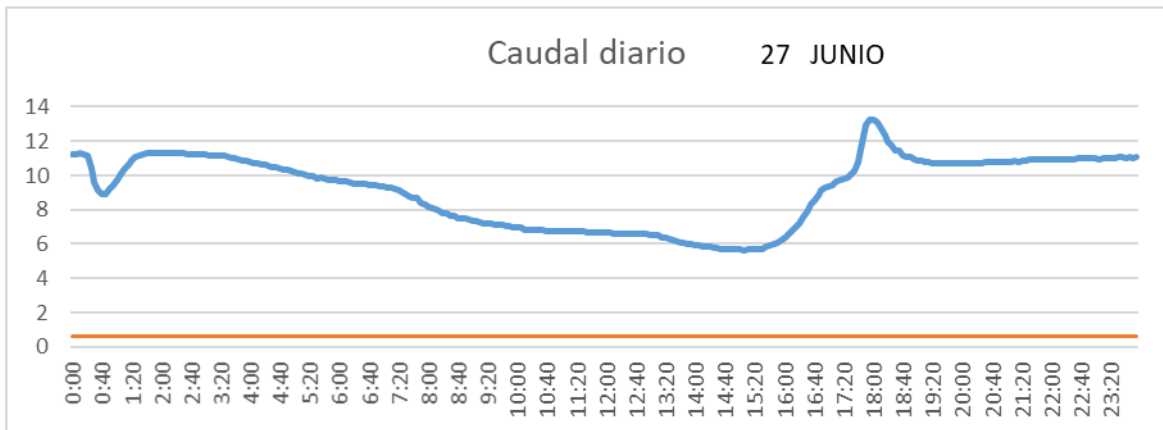
SAN LORENZO PARRILLA



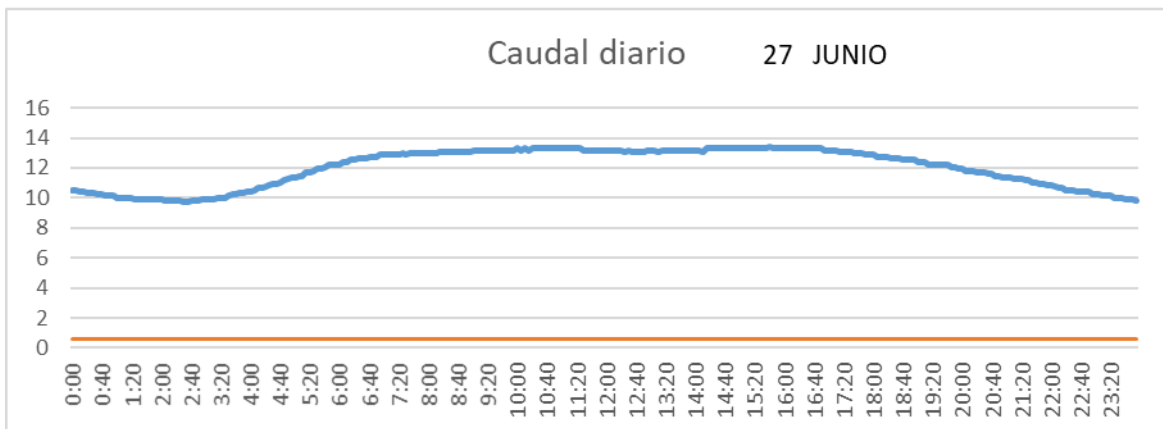
SALIDA TOBA



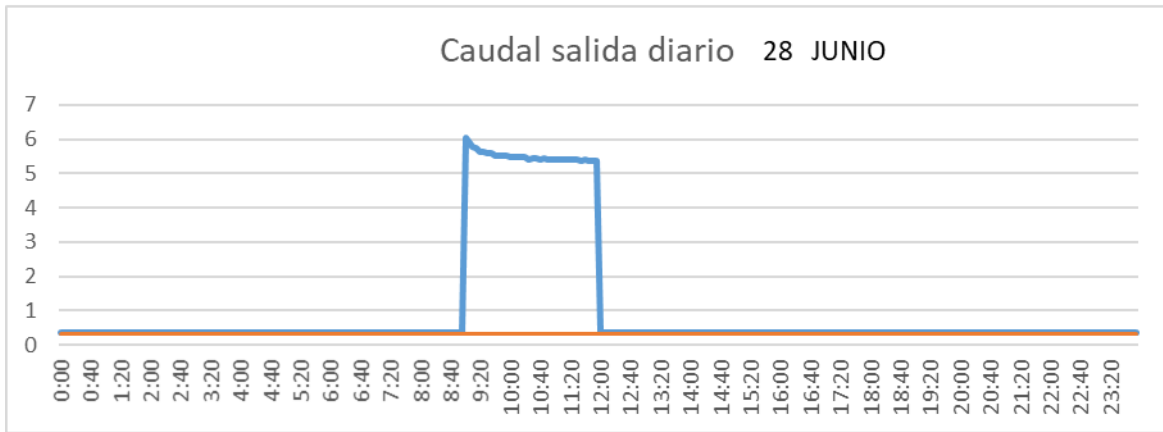
CUENCA



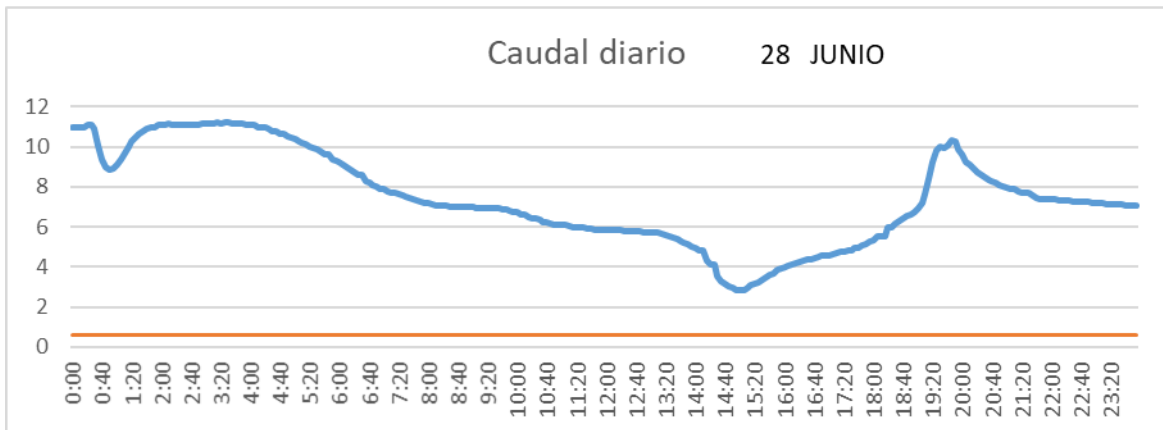
SAN LORENZO PARRILLA



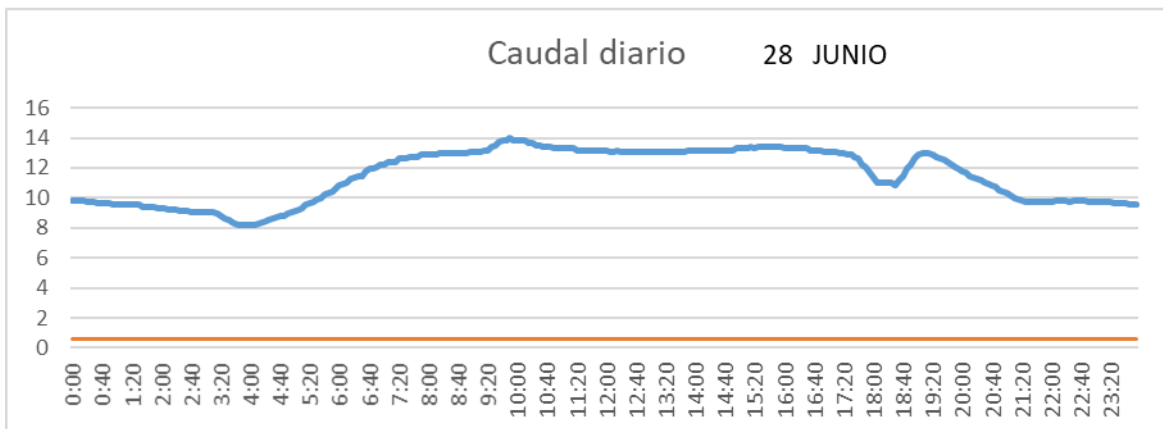
SALIDA TOBA



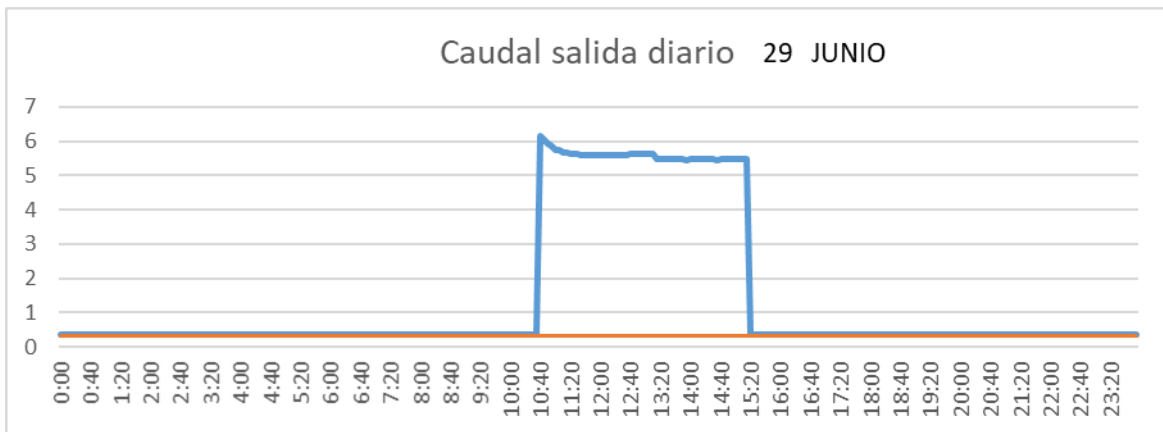
CUENCA



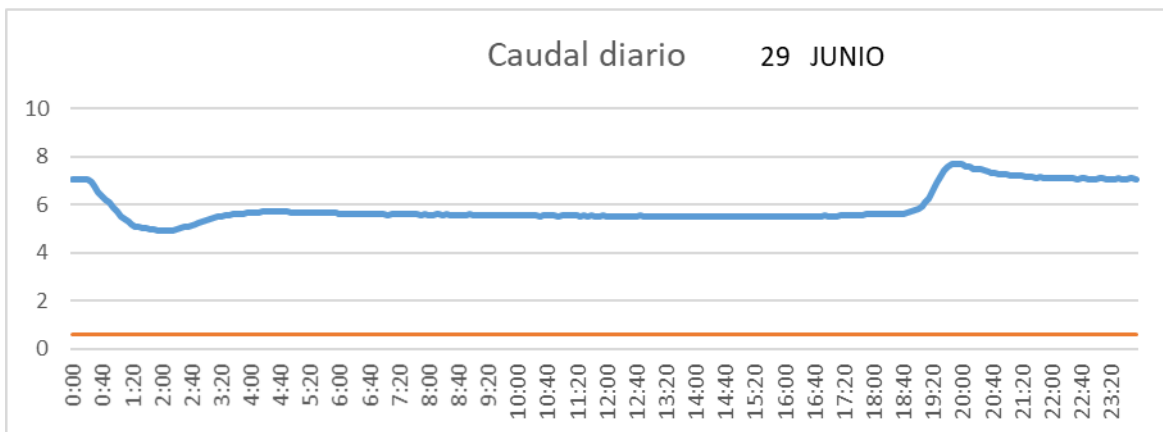
SAN LORENZO PARRILLA



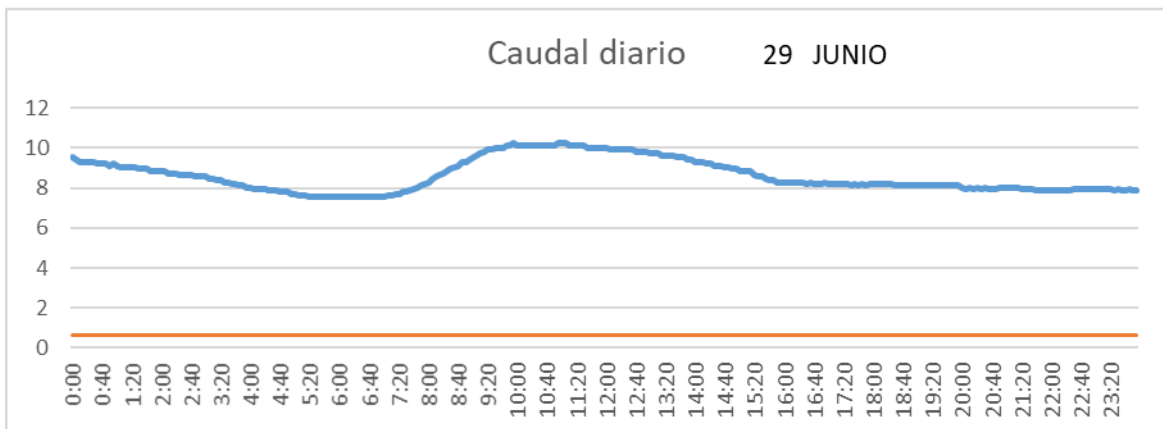
SALIDA TOBA



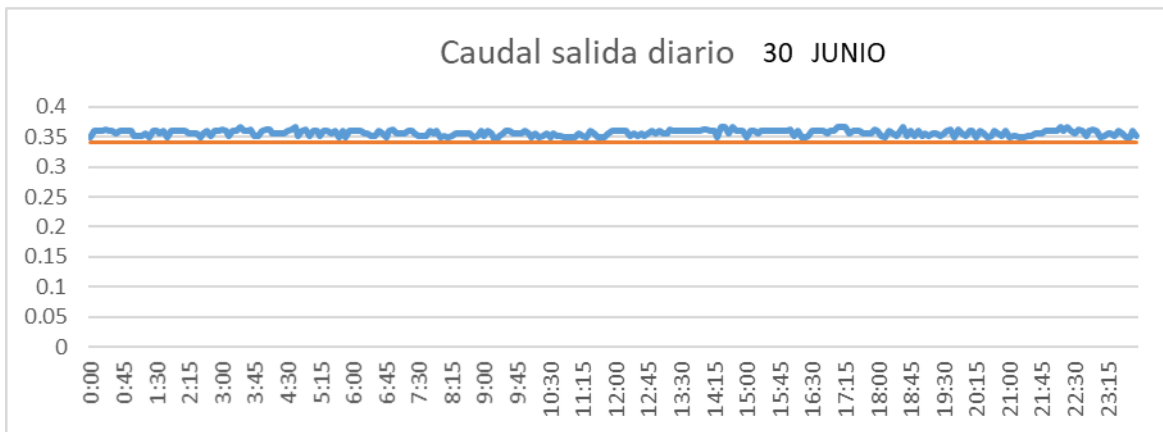
CUENCA



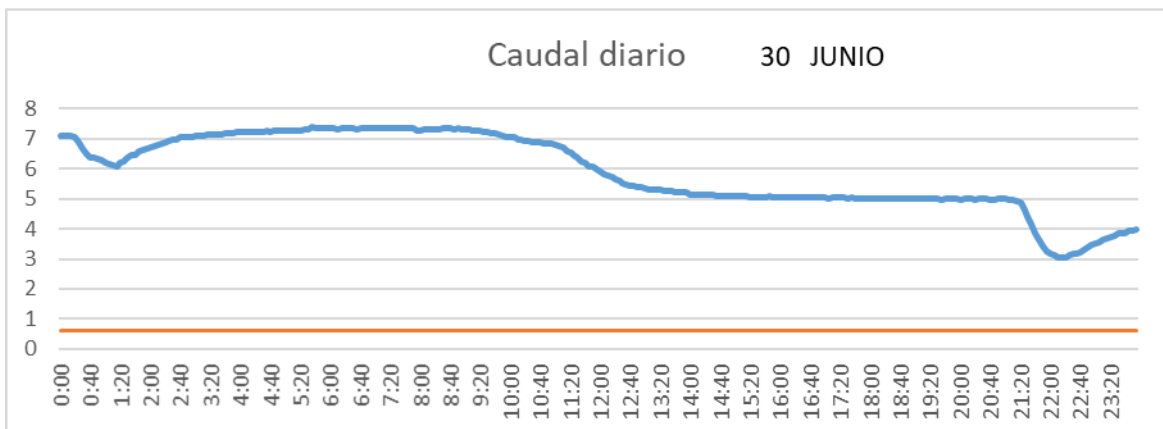
SAN LORENZO PARRILLA



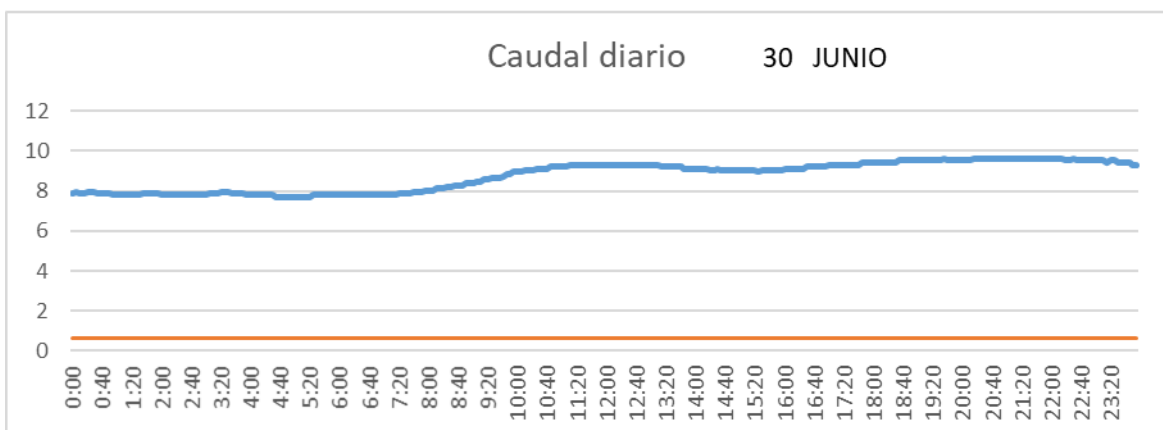
SALIDA TOBA



CUENCA

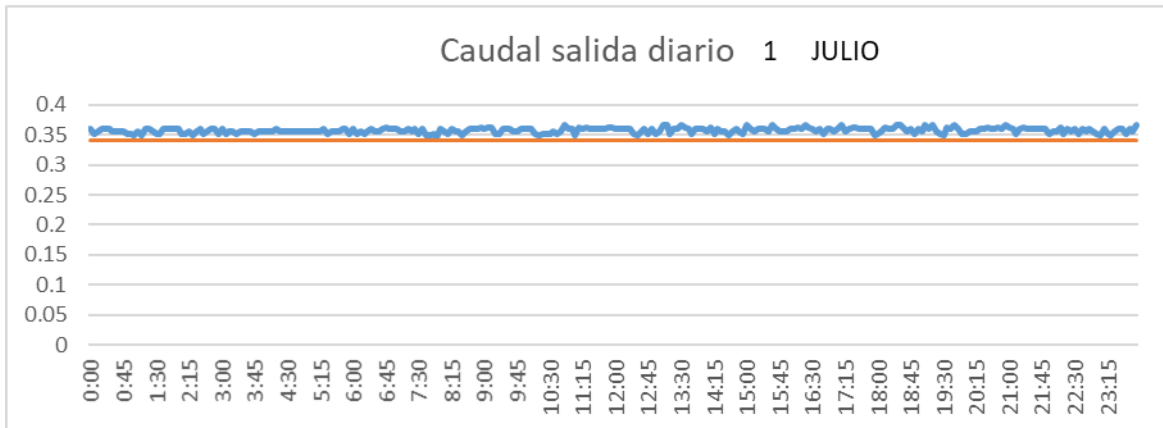


SAN LORENZO PARRILLA

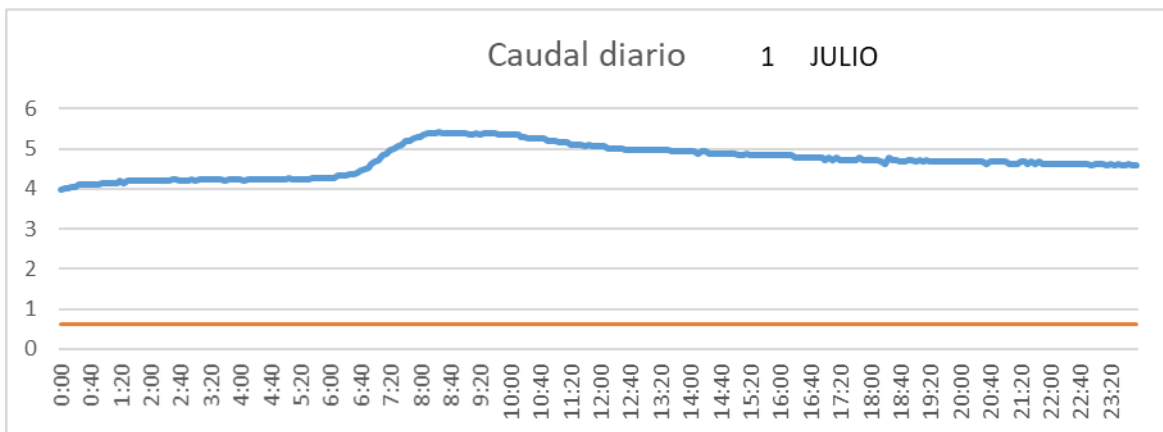


2.3.7 Julio

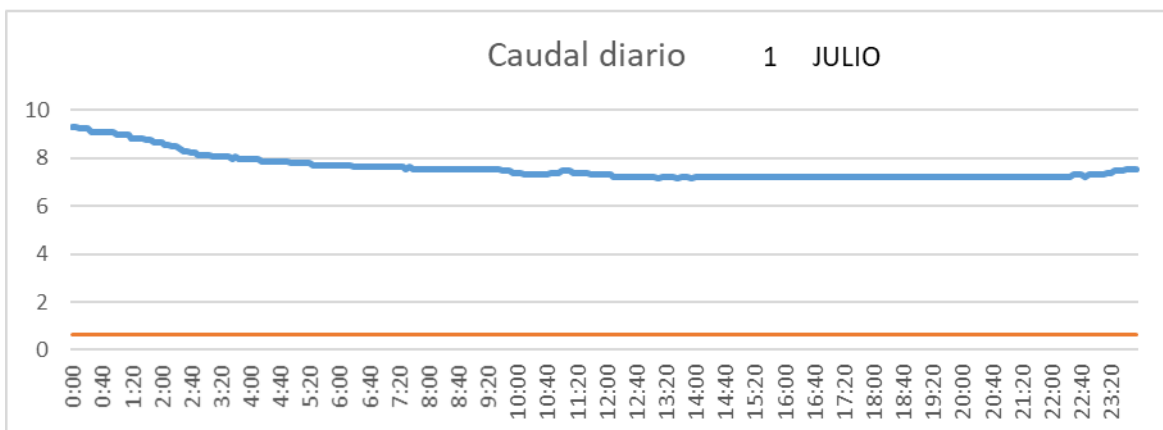
SALIDA TOBA



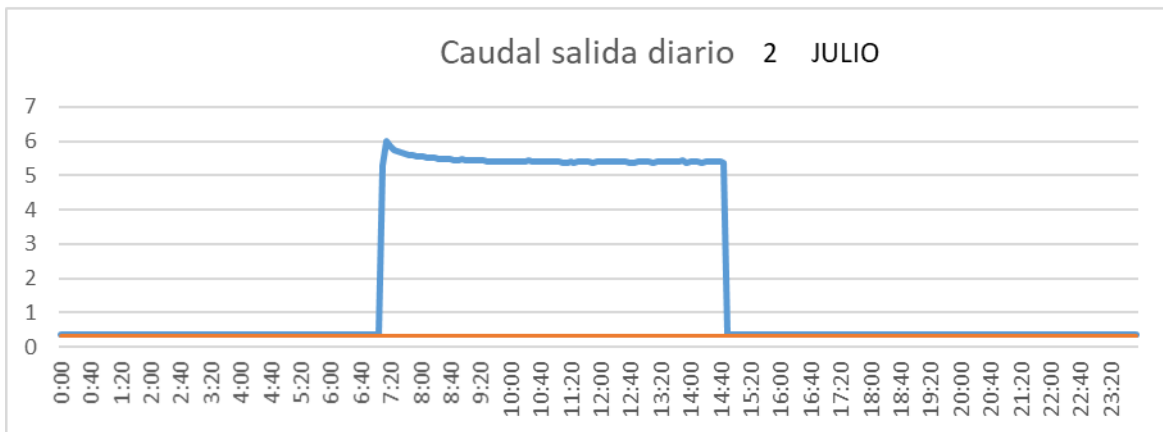
CUENCA



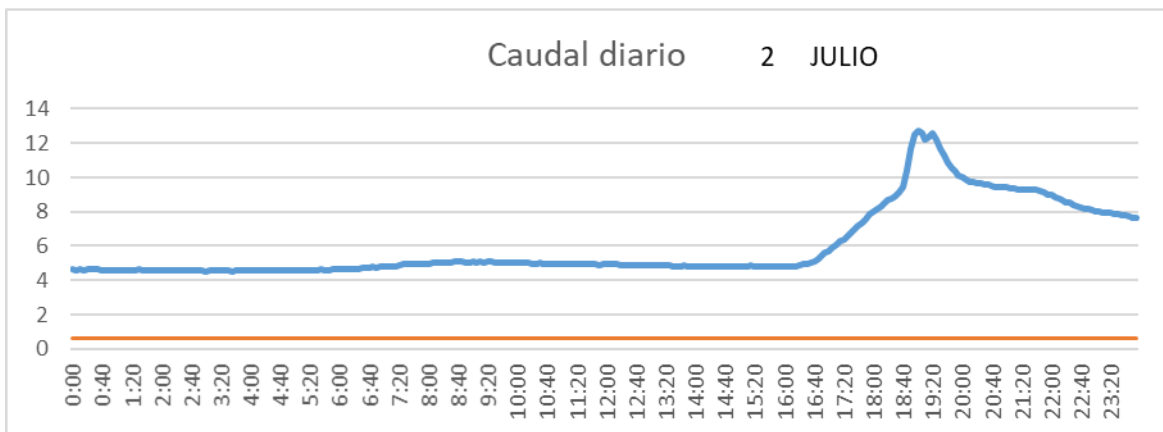
SAN LORENZO PARRILLA



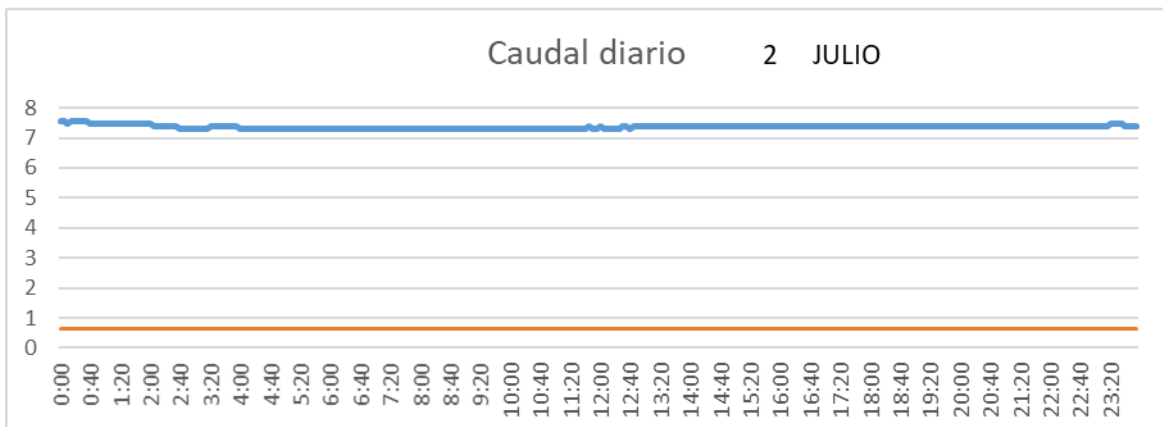
SALIDA TOBA



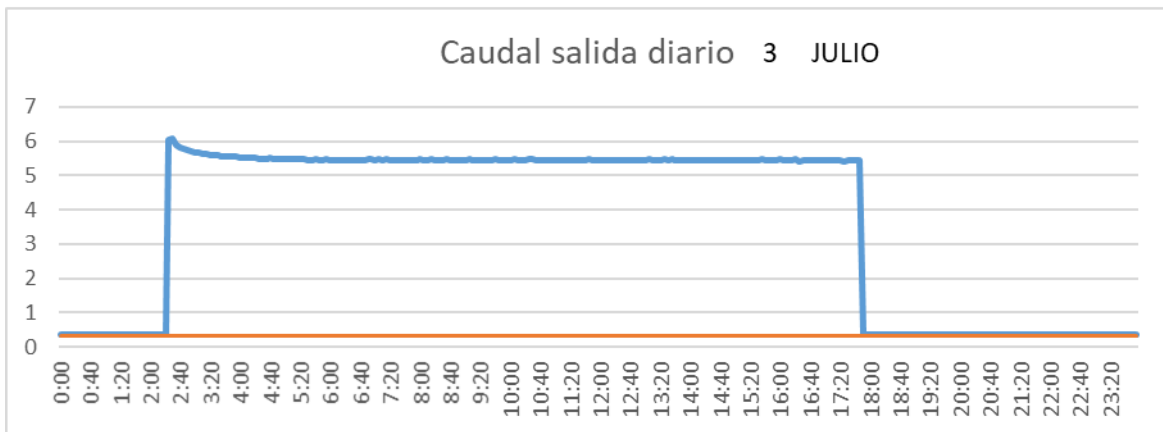
CUENCA



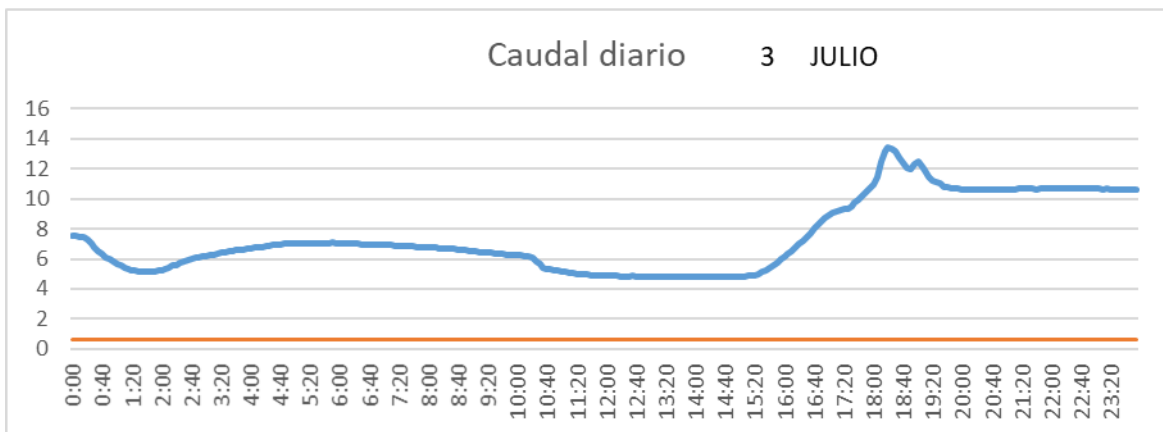
SAN LORENZO PARRILLA



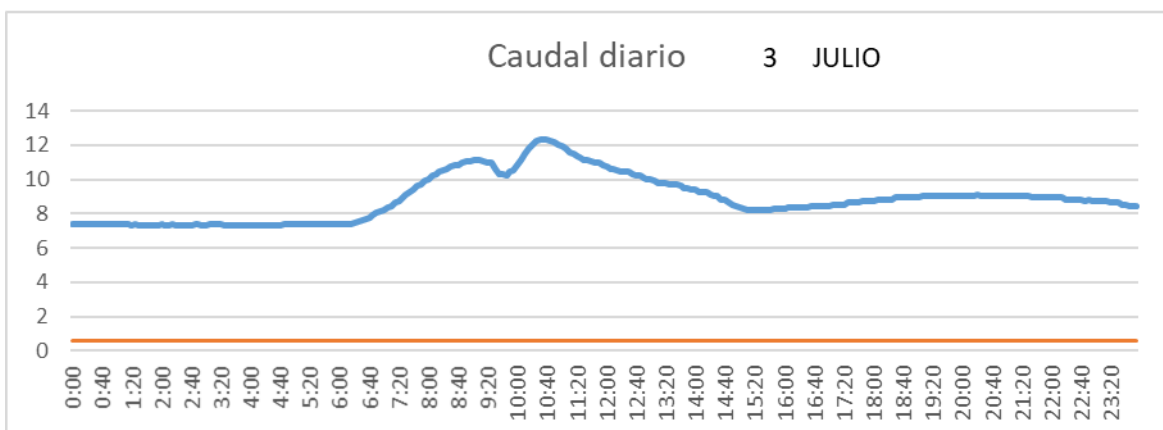
SALIDA TOBA



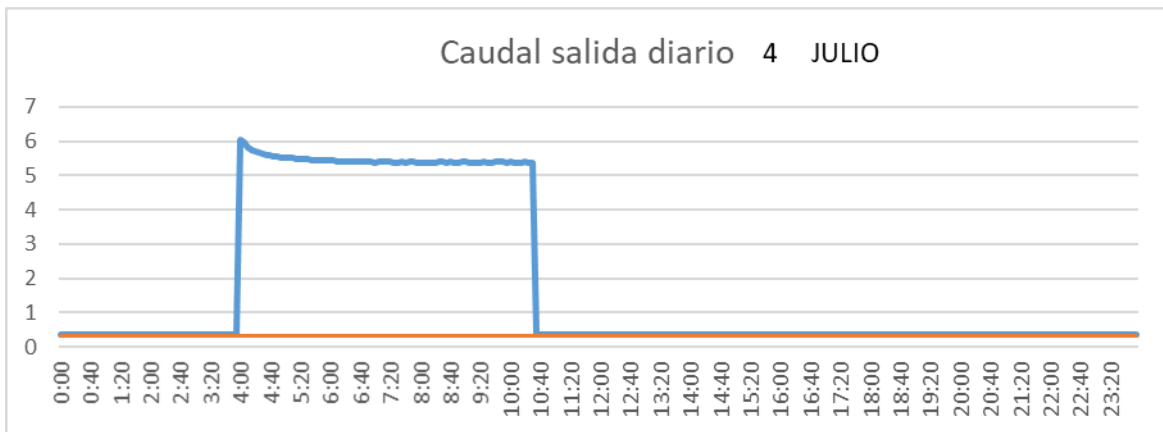
CUENCA



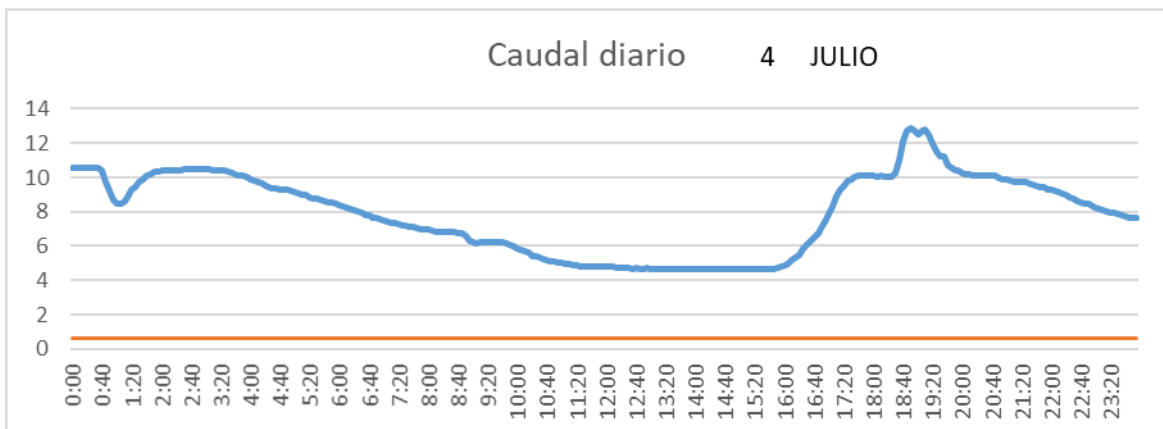
SAN LORENZO PARRILLA



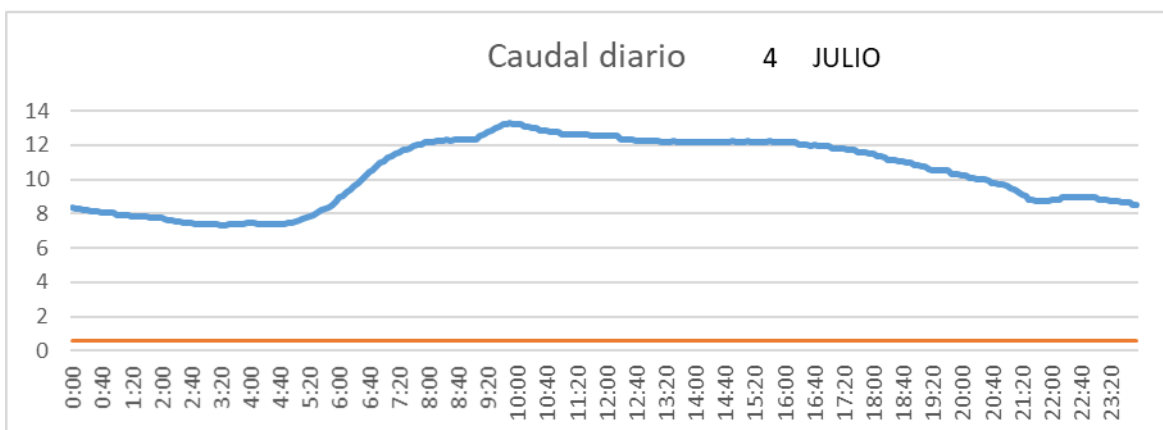
SALIDA TOBA



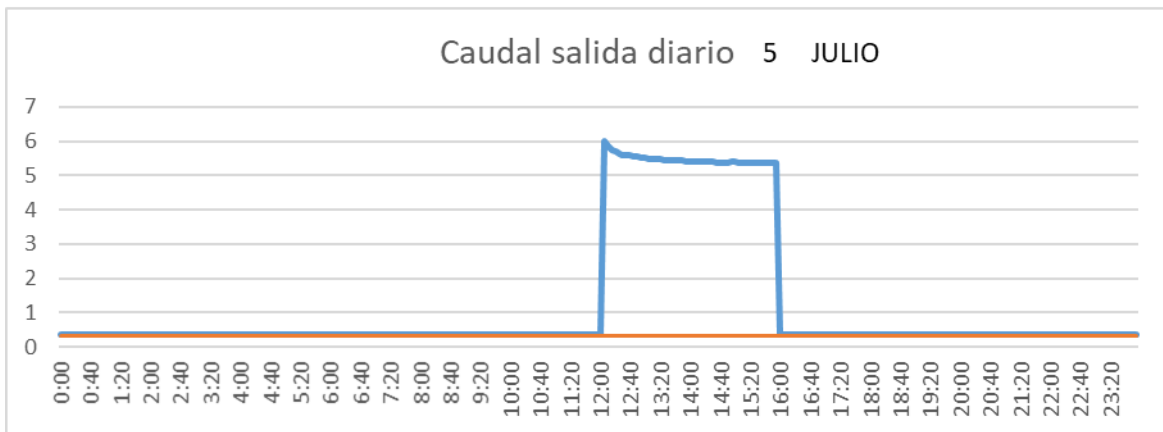
CUENCA



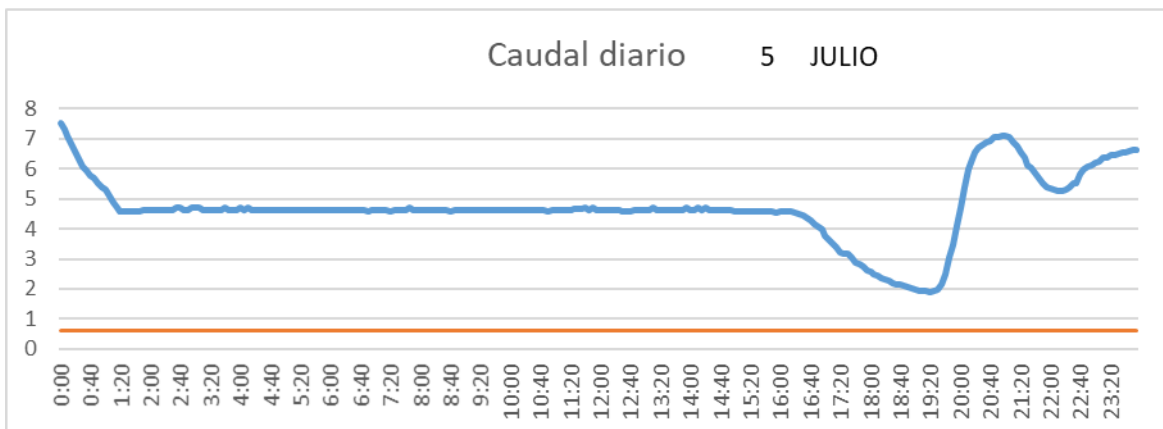
SAN LORENZO PARRILLA



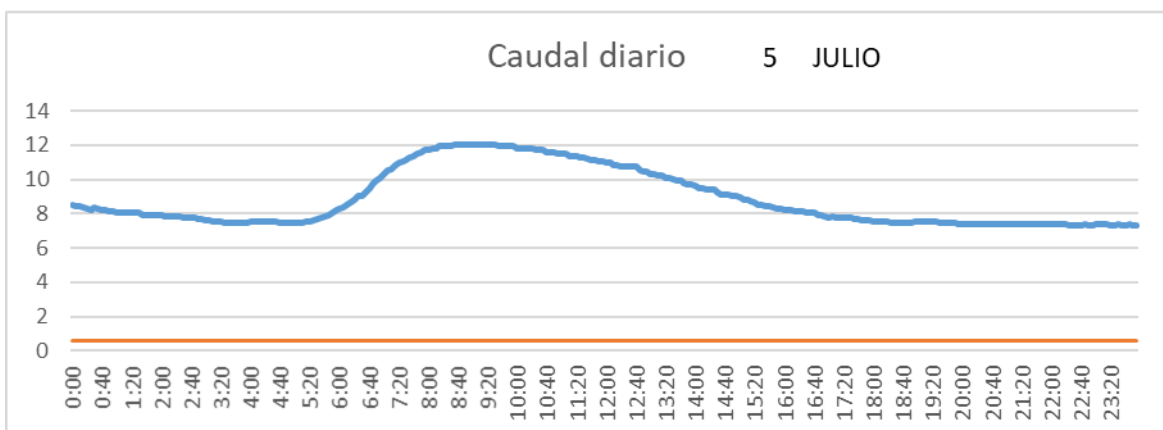
SALIDA TOBA



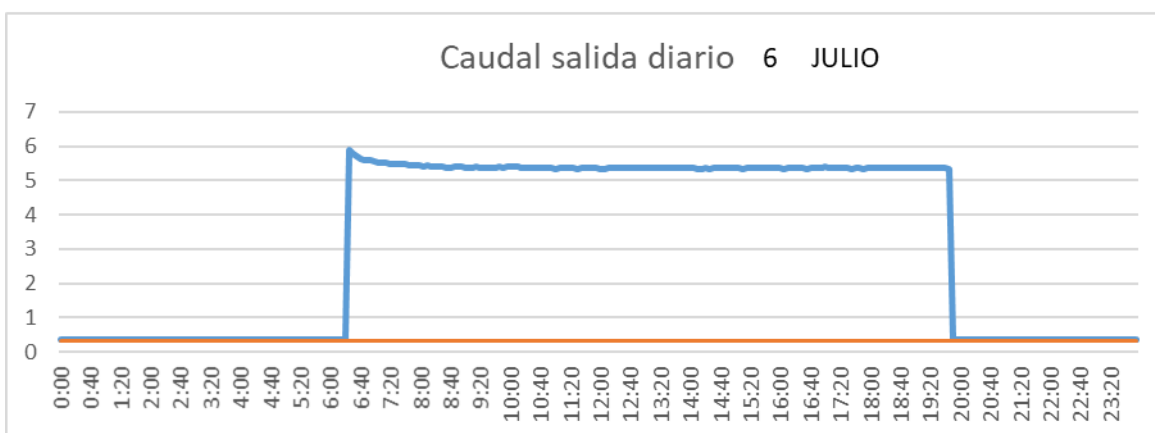
CUENCA



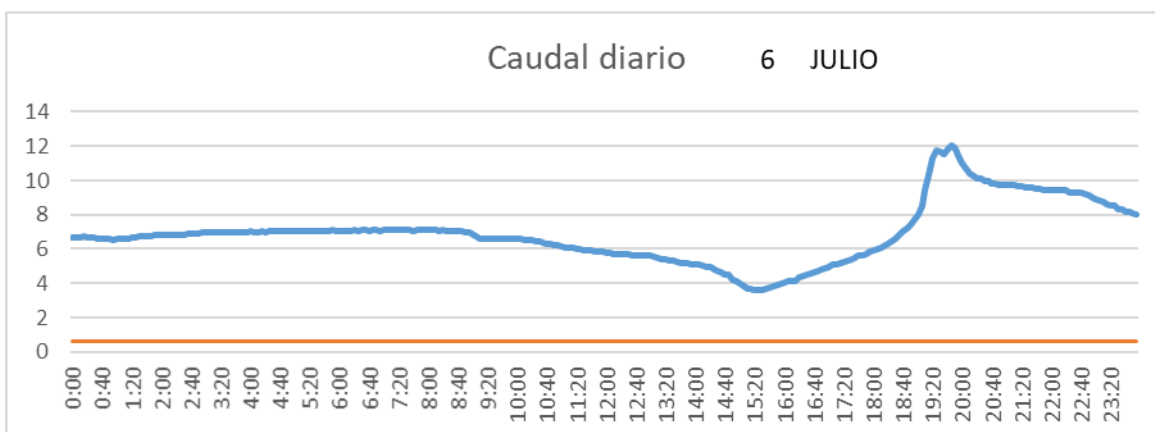
SAN LORENZO PARRILLA



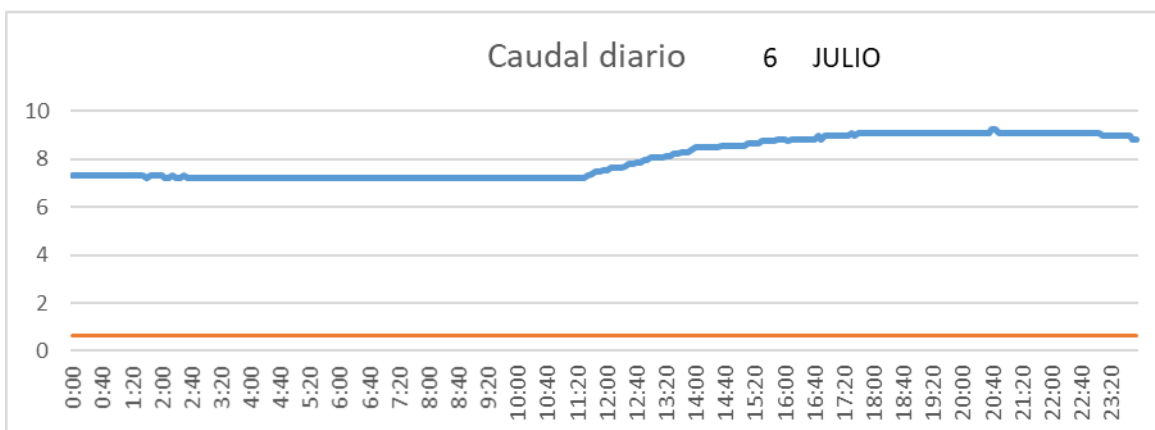
SALIDA TOBA



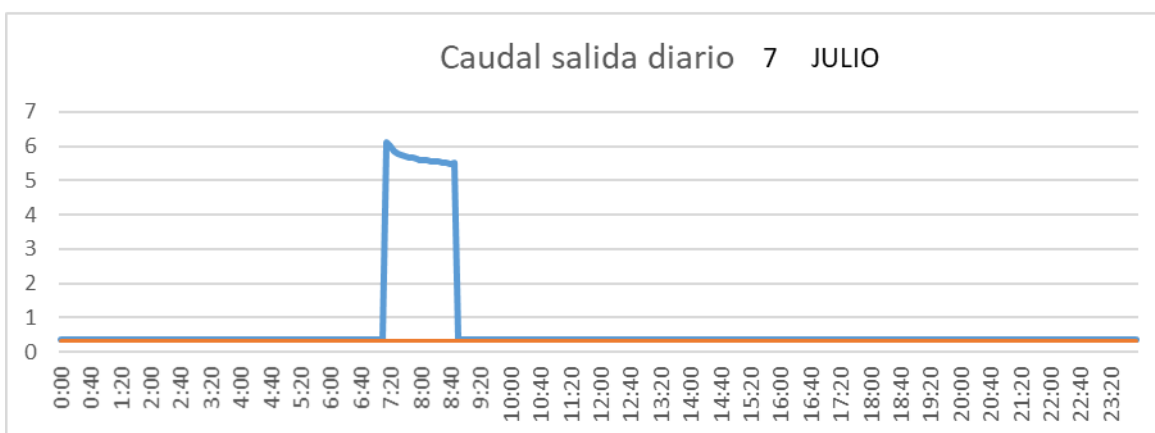
CUENCA



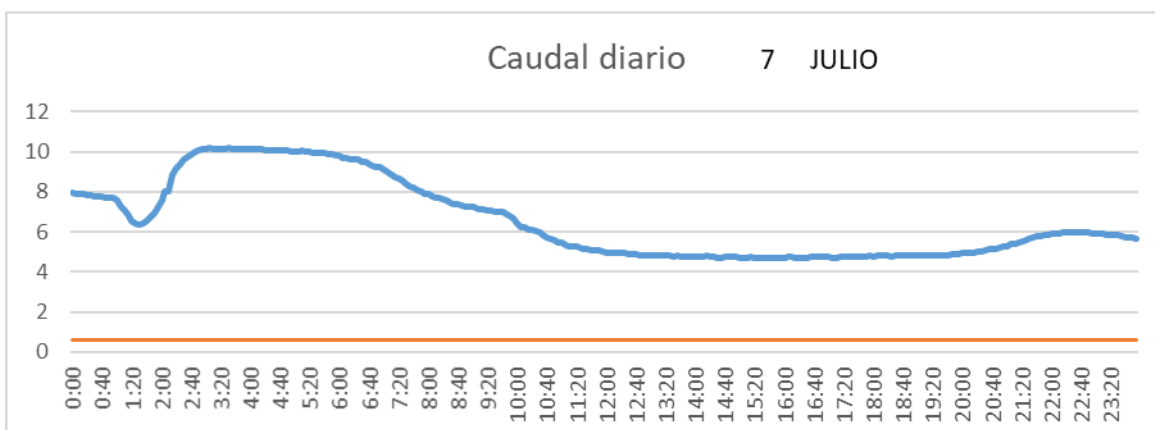
SAN LORENZO PARRILLA



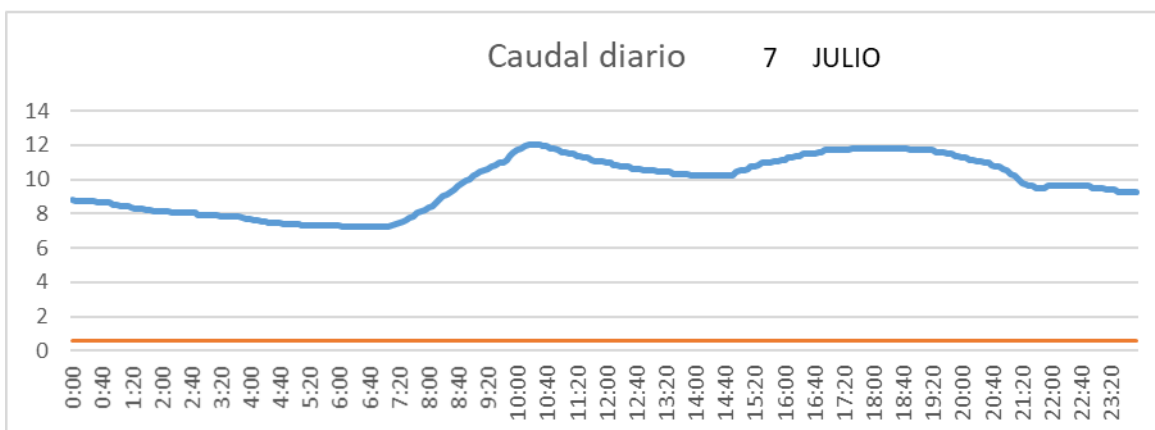
SALIDA TOBA



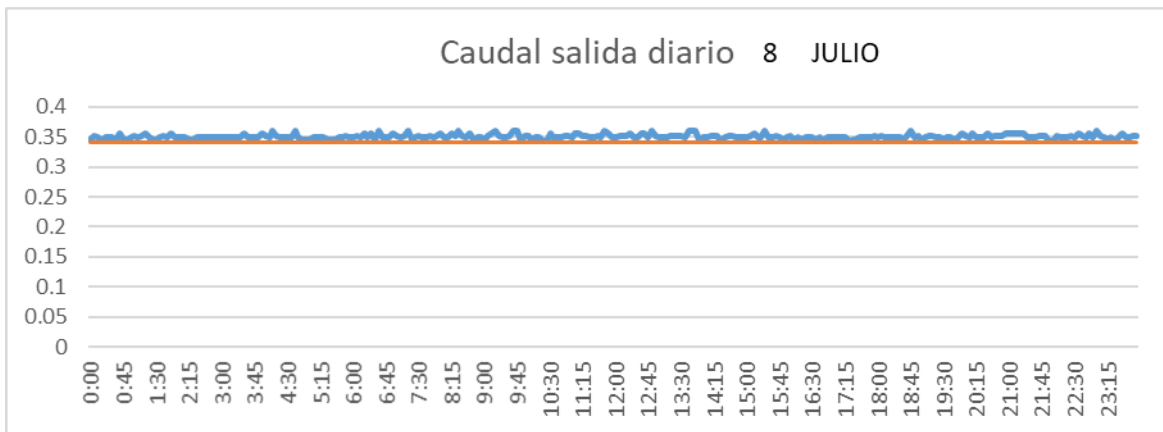
CUENCA



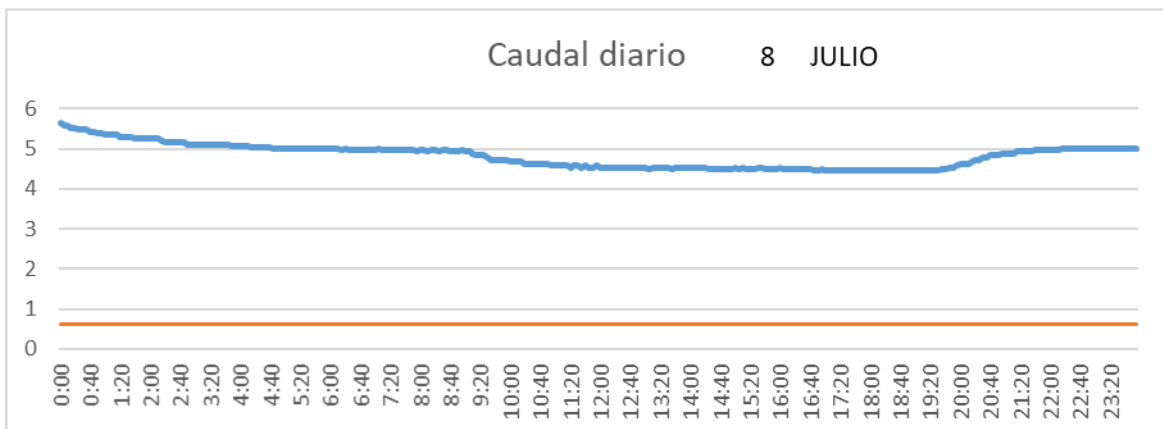
SAN LORENZO PARRILLA



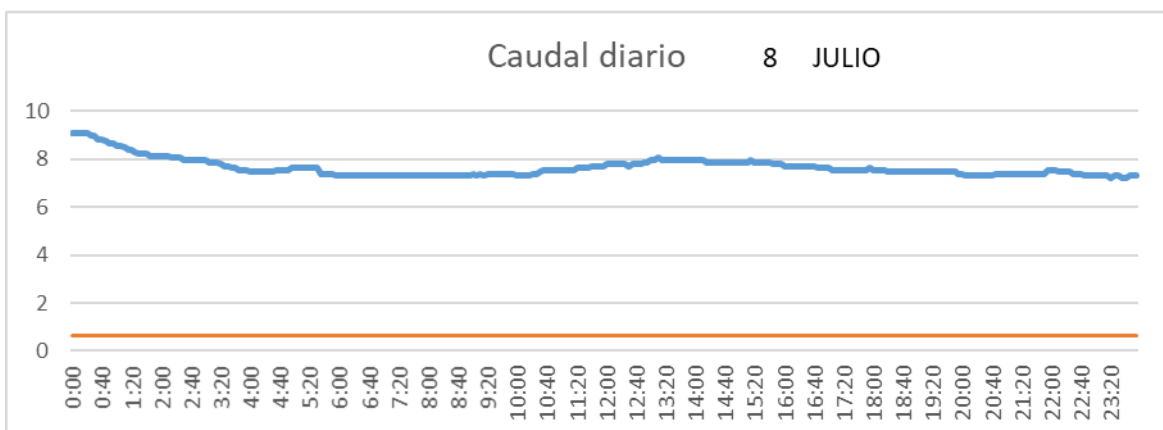
SALIDA TOBA



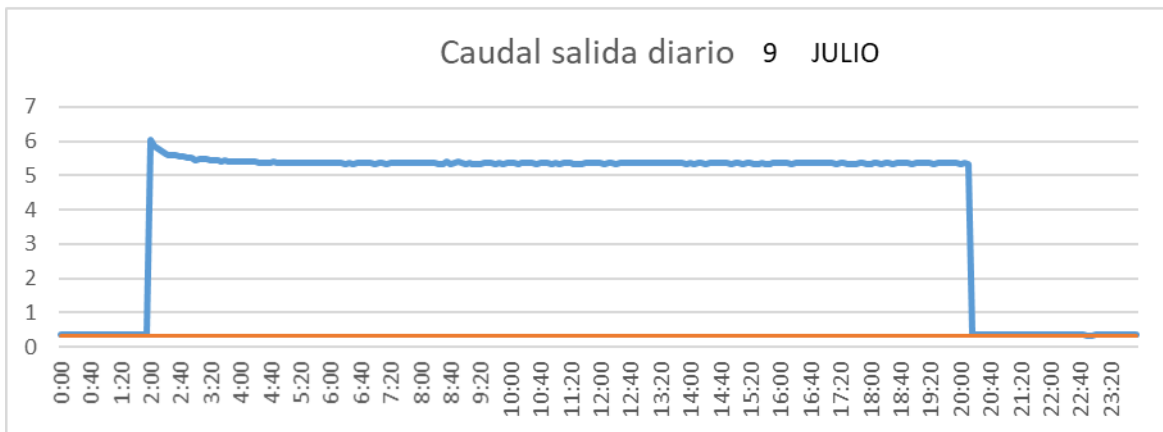
CUENCA



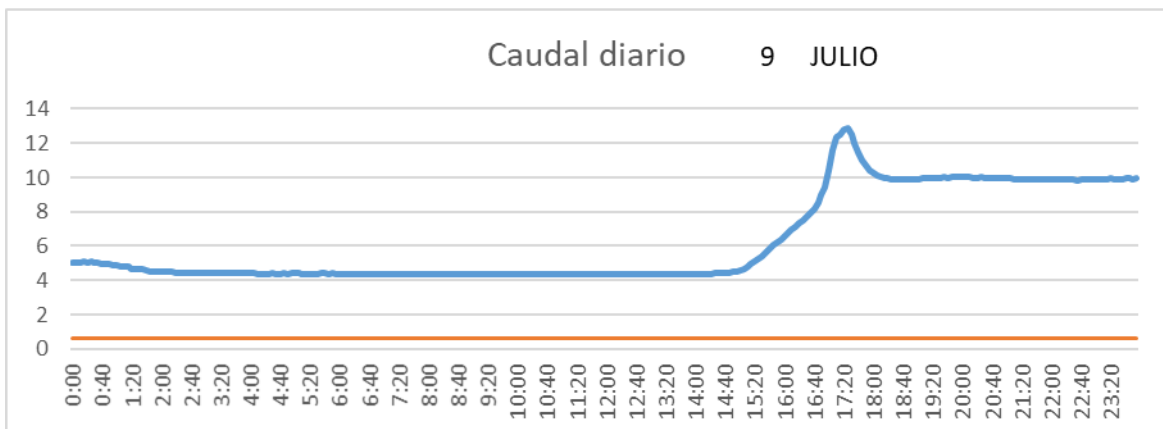
SAN LORENZO PARRILLA



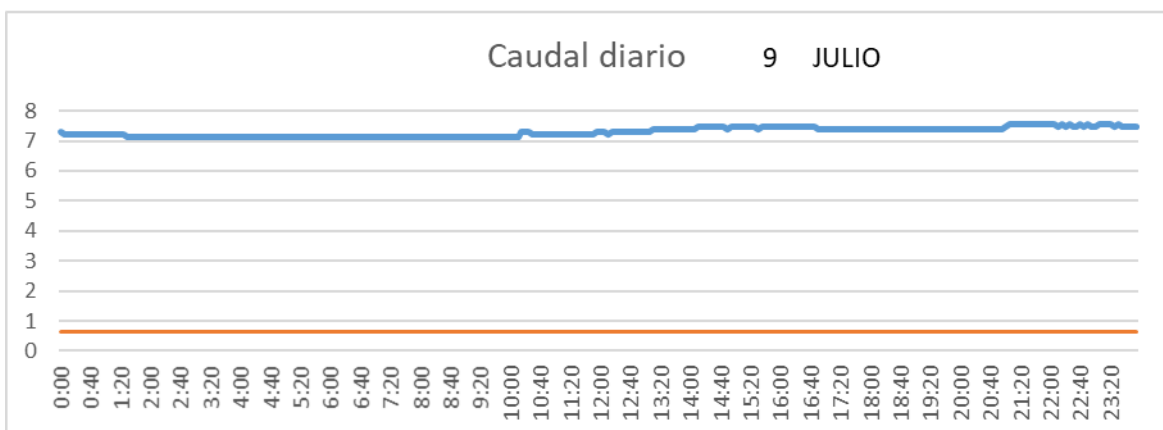
SALIDA TOBA



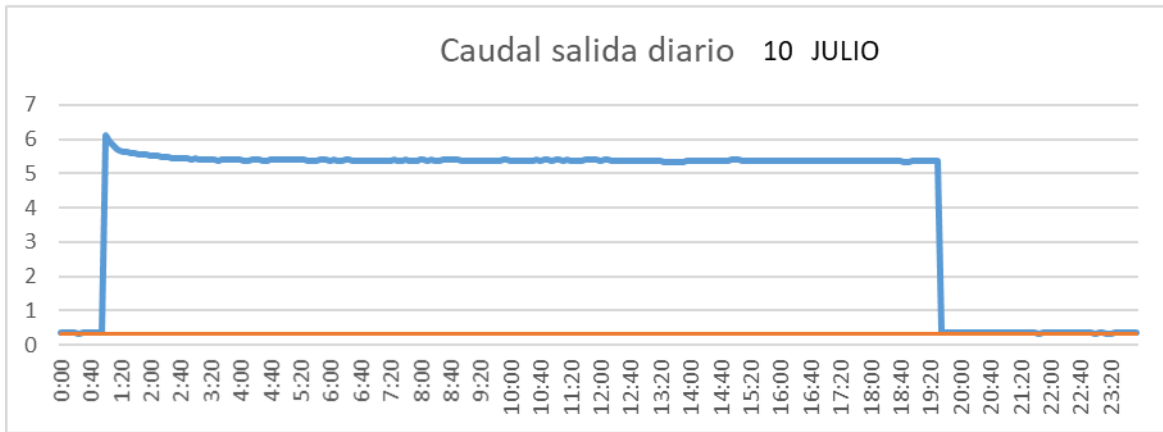
CUENCA



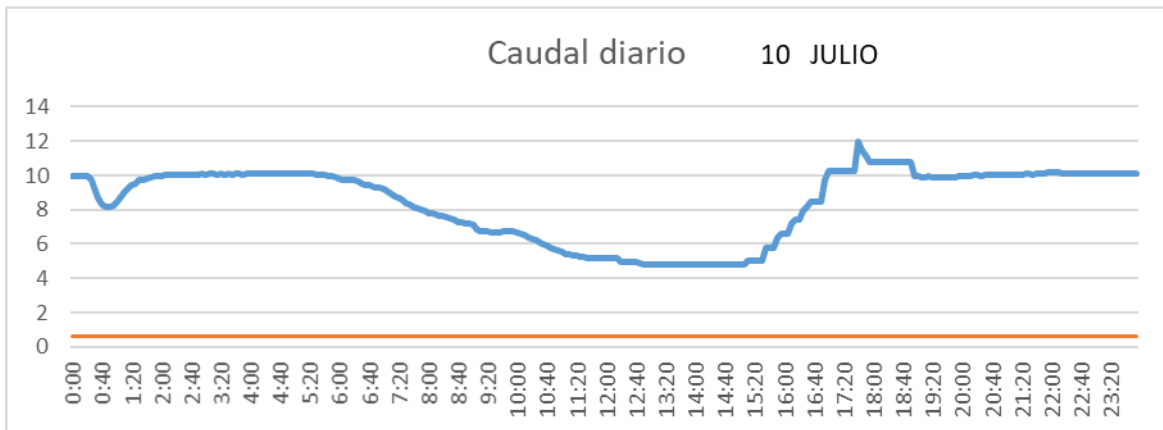
SAN LORENZO PARRILLA



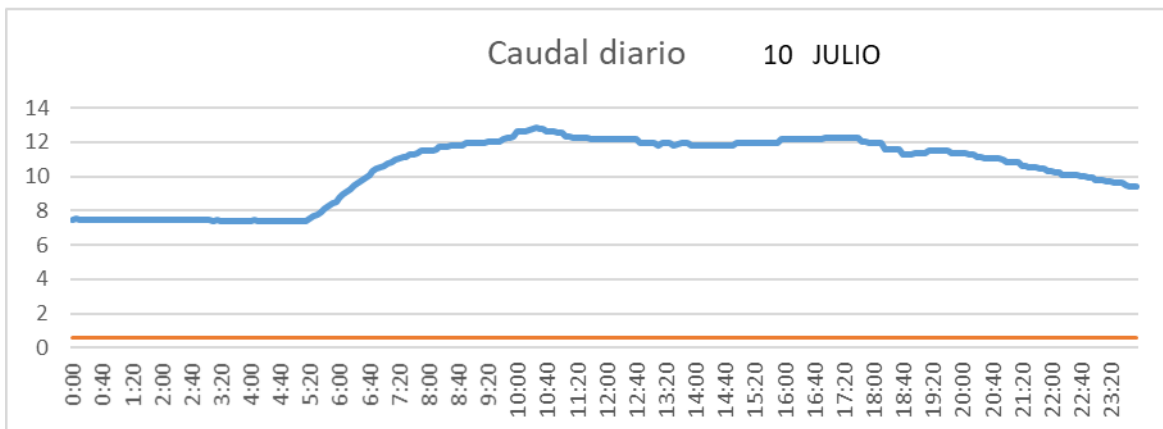
SALIDA TOBA



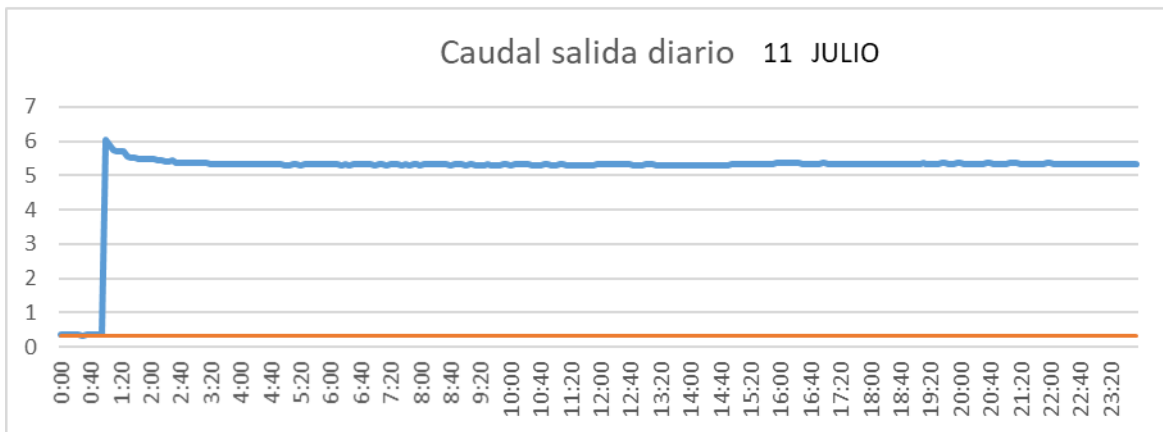
CUENCA



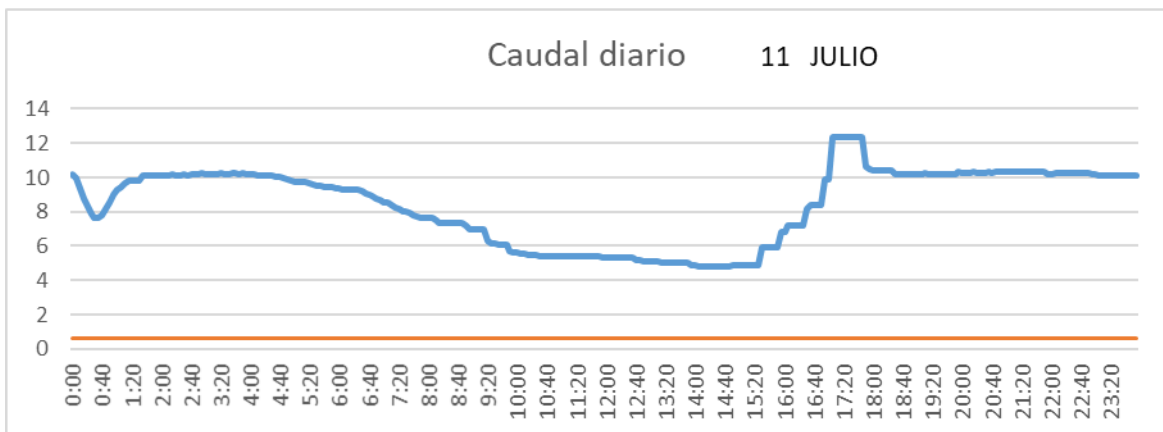
SAN LORENZO PARRILLA



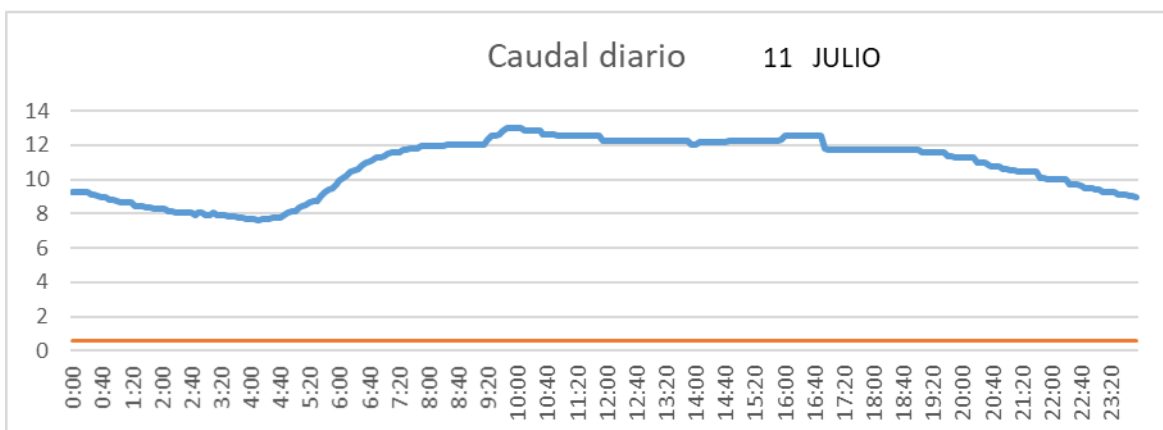
SALIDA TOBA



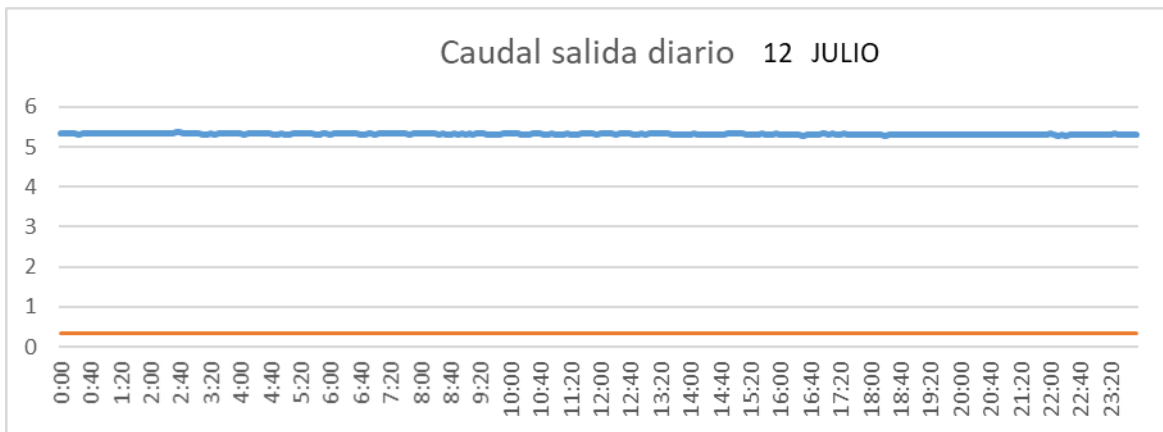
CUENCA



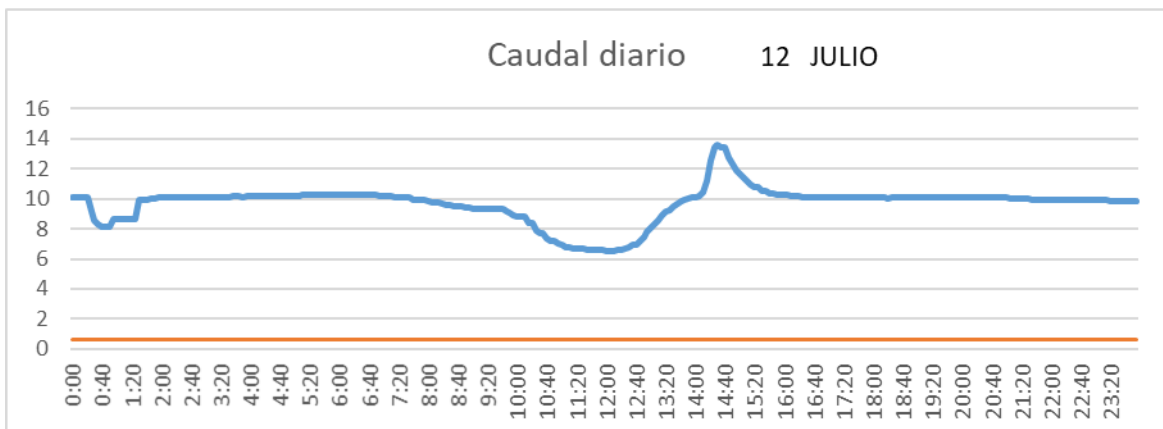
SAN LORENZO PARRILLA



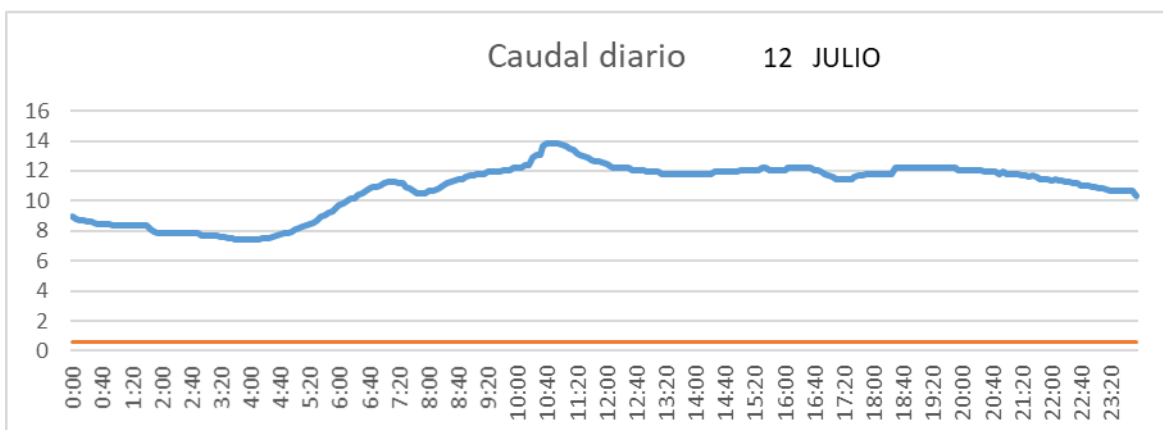
SALIDA TOBA



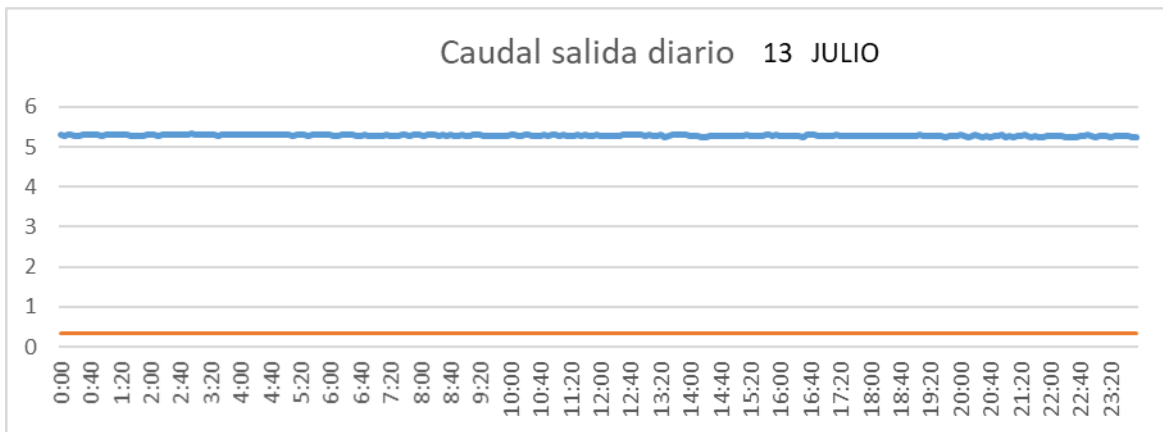
CUENCA



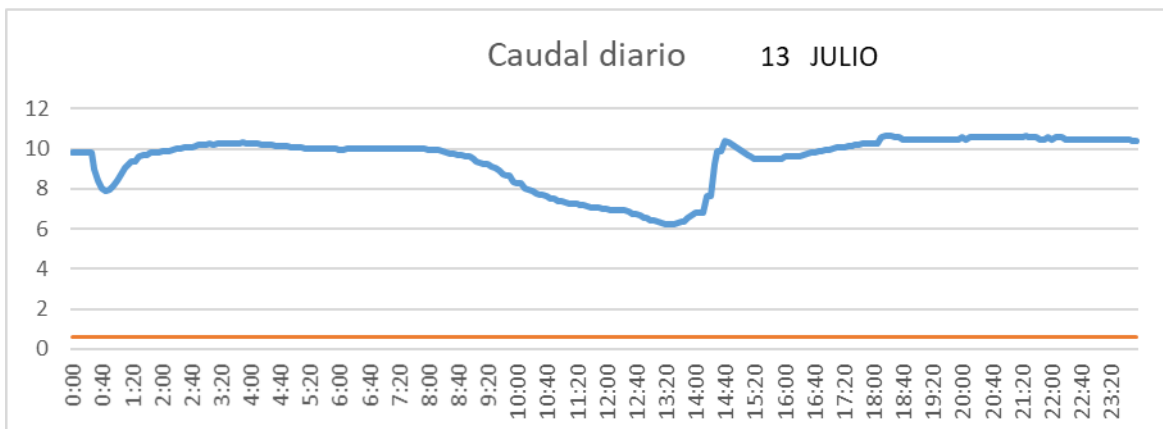
SAN LORENZO PARRILLA



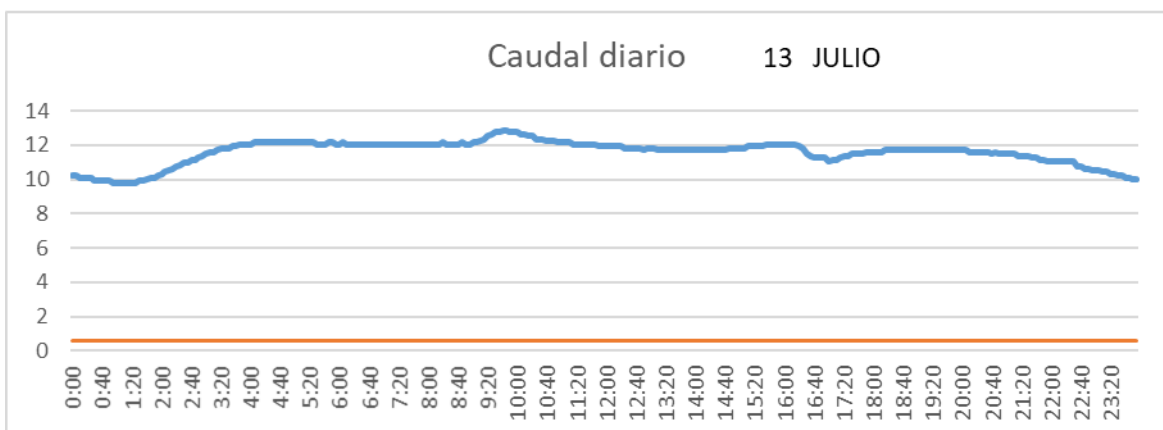
SALIDA TOBA



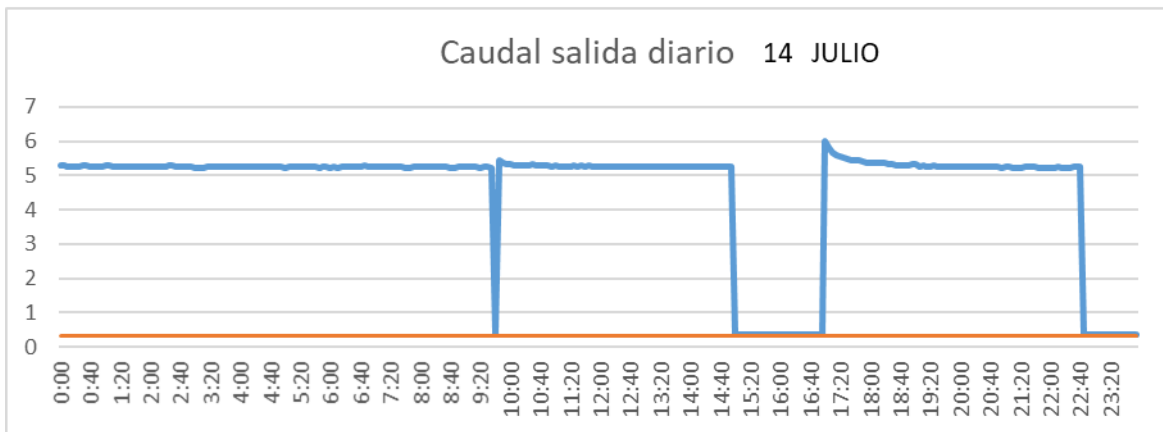
CUENCA



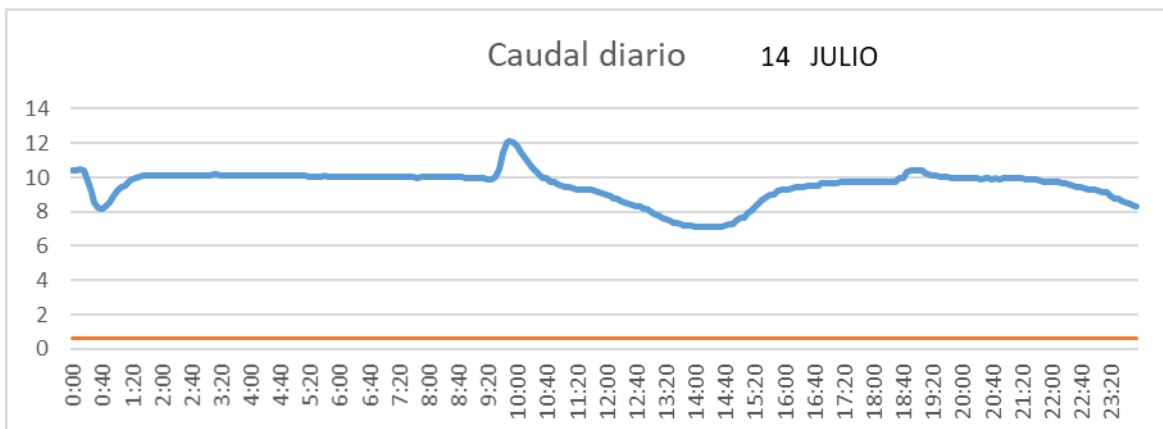
SAN LORENZO PARRILLA



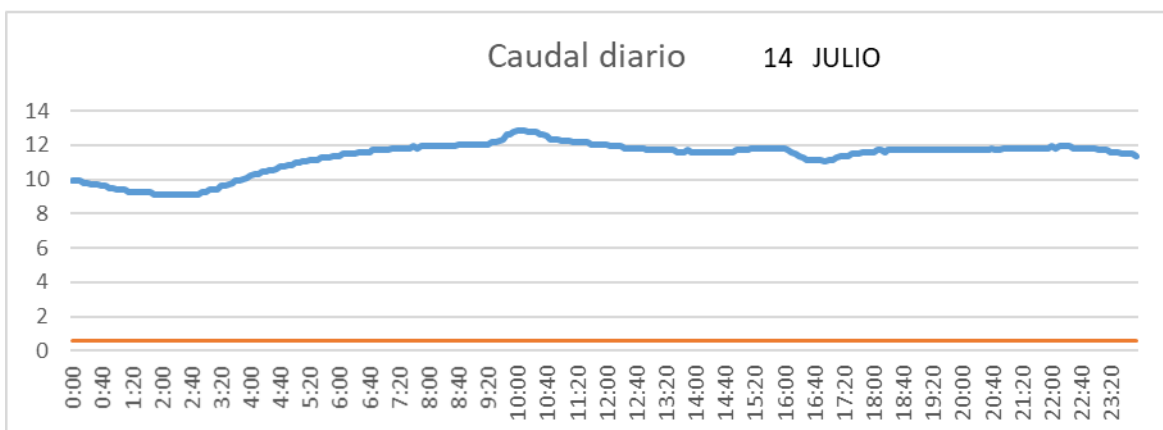
SALIDA TOBA



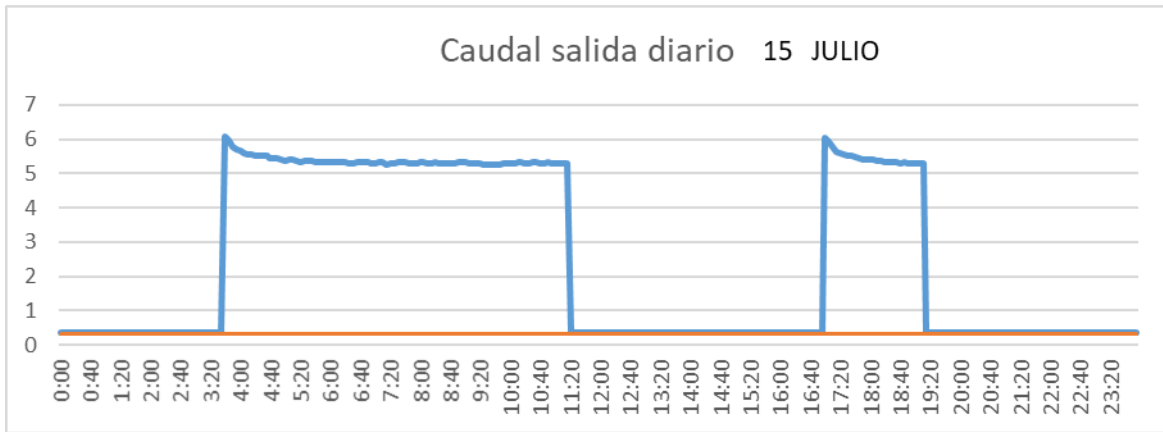
CUENCA



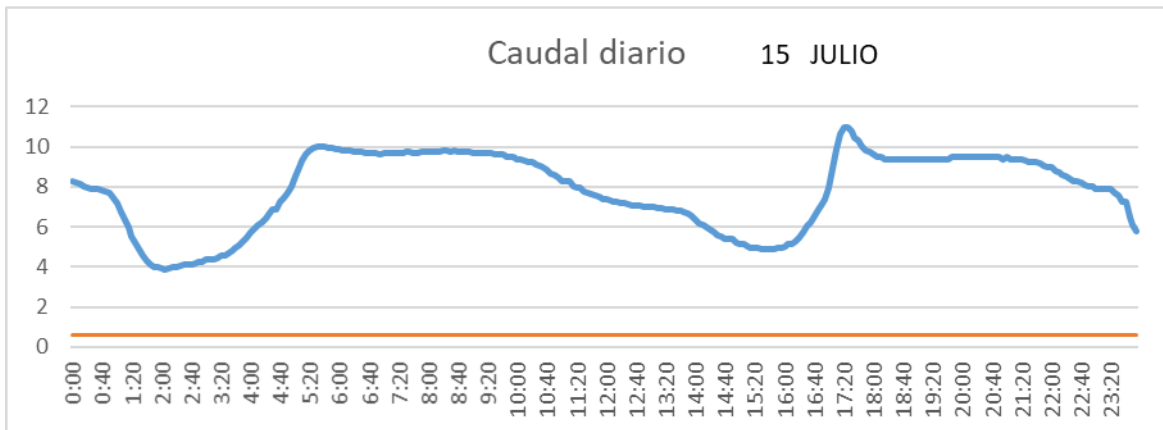
SAN LORENZO PARRILLA



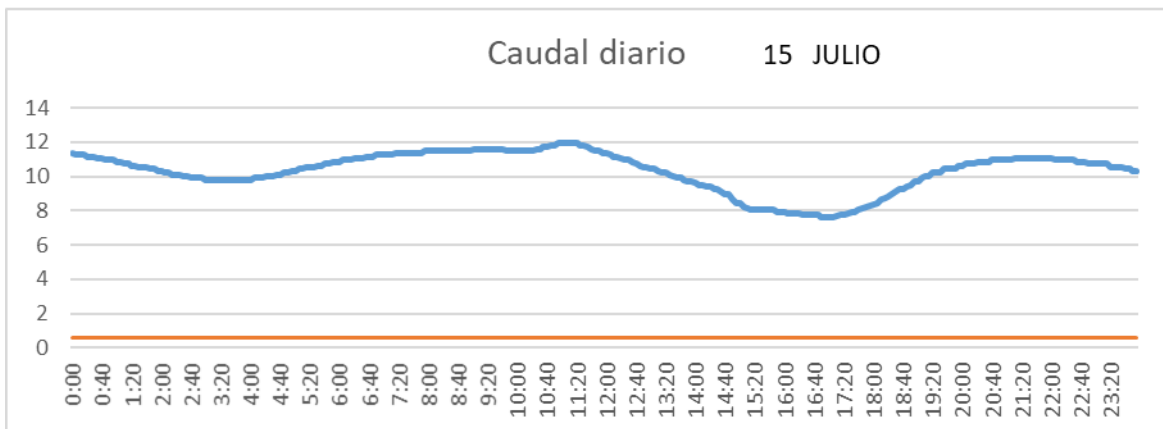
SALIDA TOBA



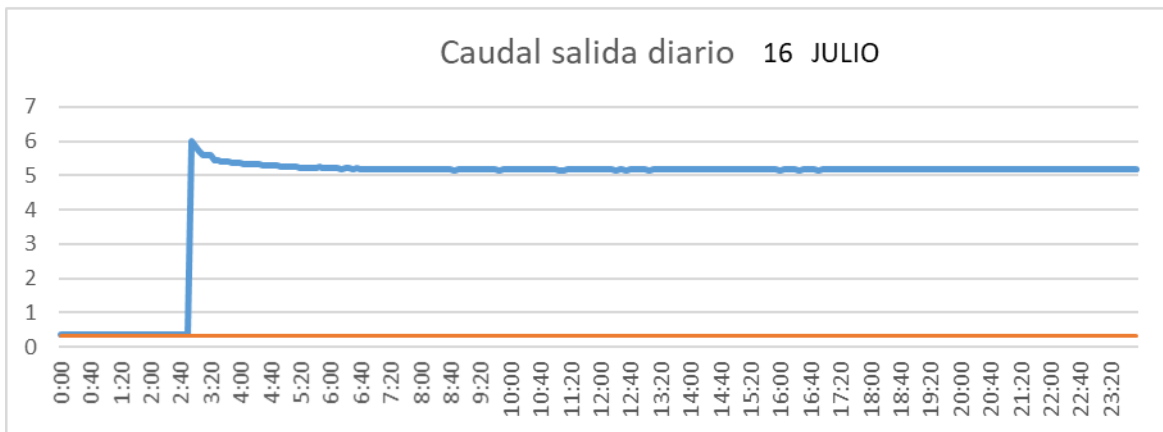
CUENCA



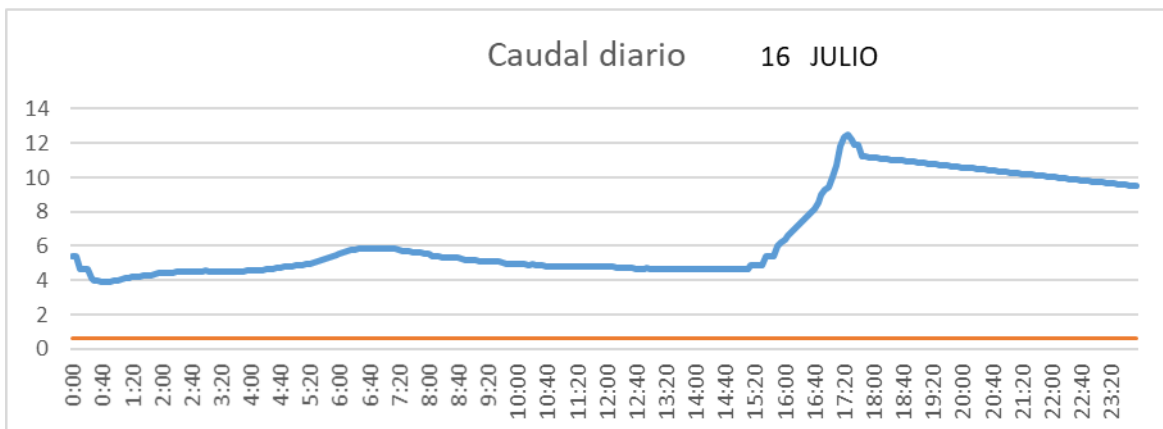
SAN LORENZO PARRILLA



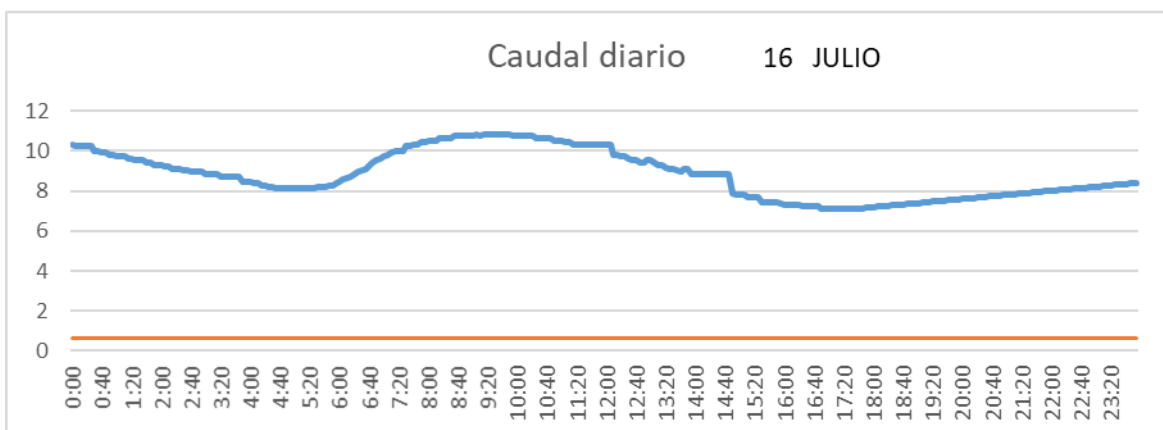
SALIDA TOBA



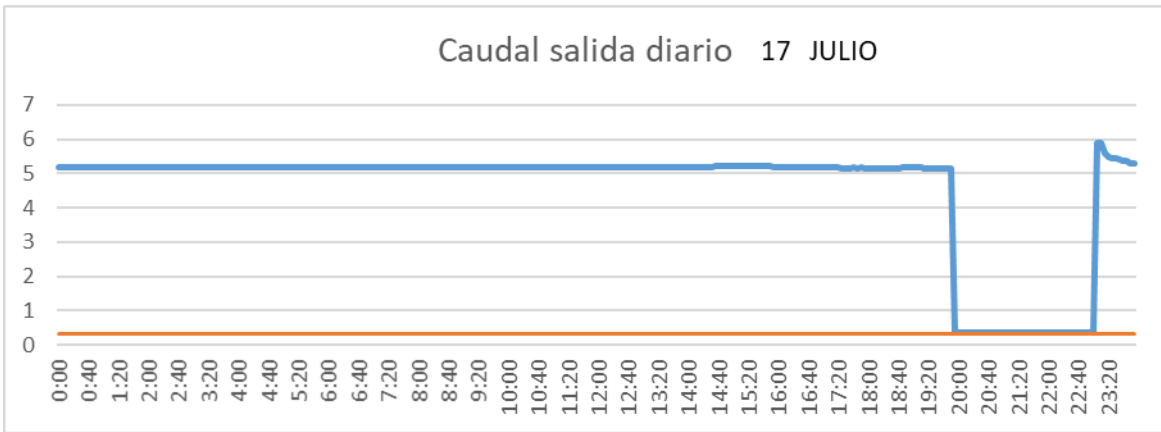
CUENCA



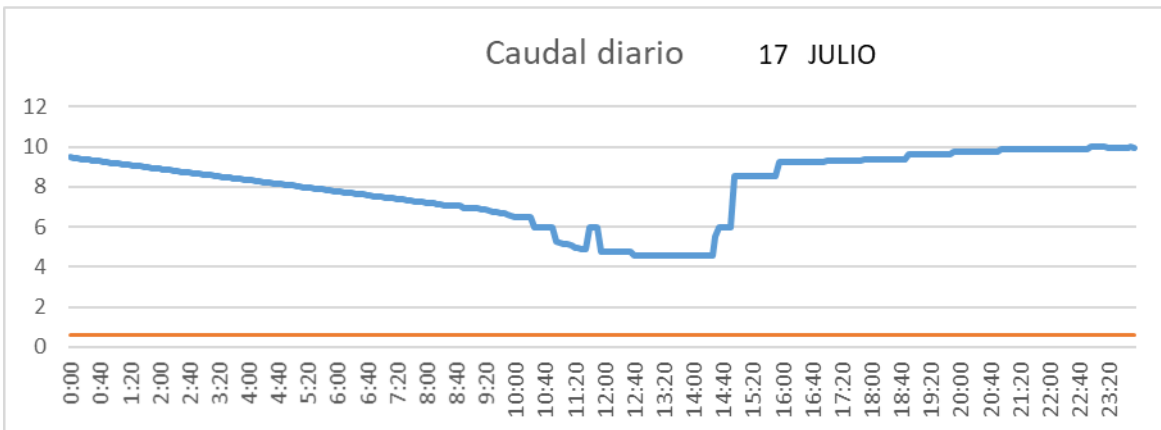
SAN LORENZO PARRILLA



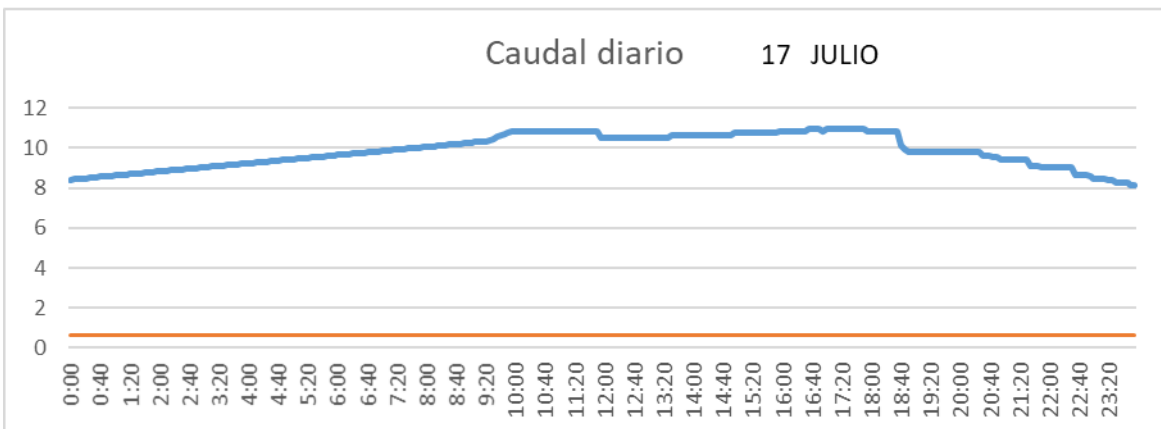
SALIDA TOBA



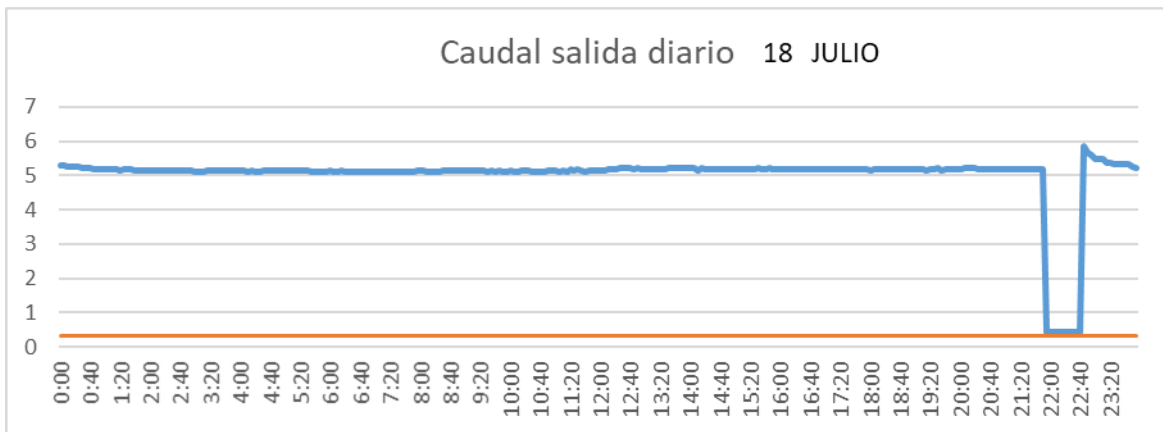
CUENCA



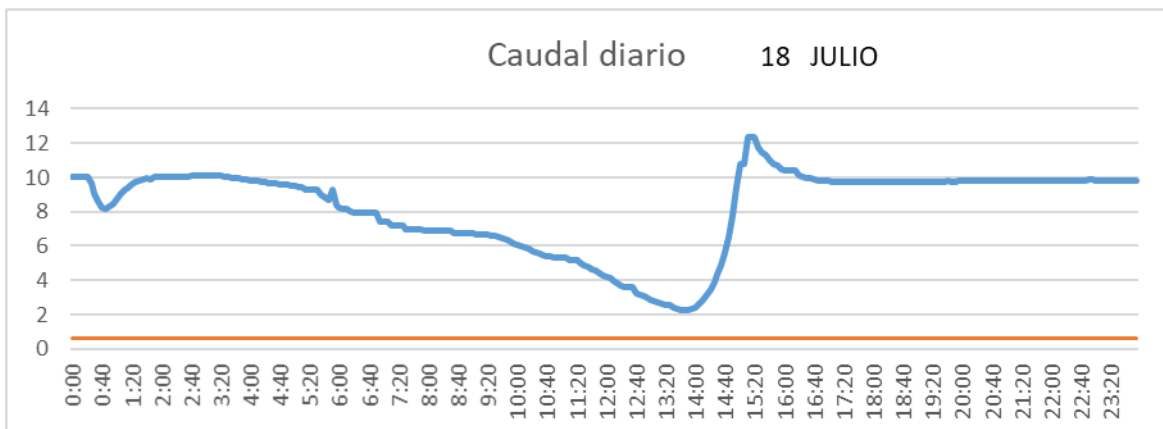
SAN LORENZO PARRILLA



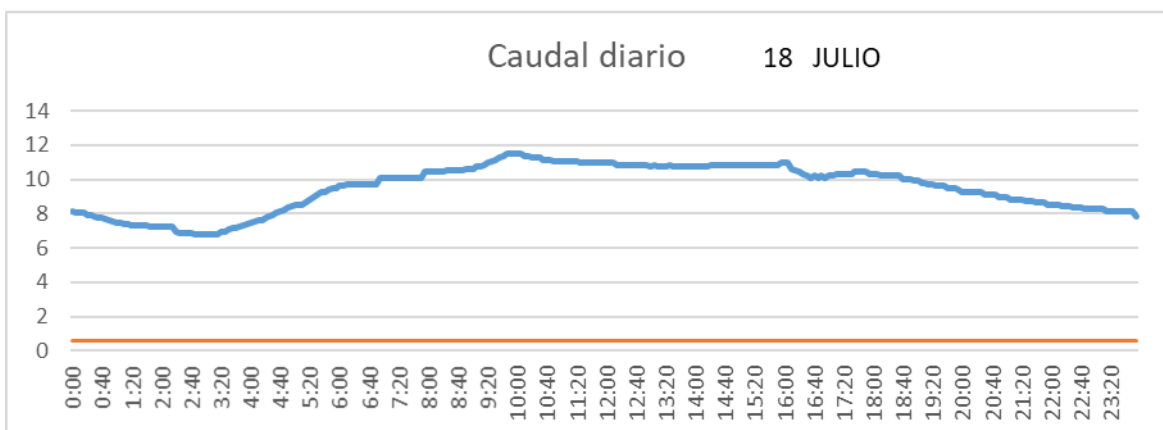
SALIDA TOBA



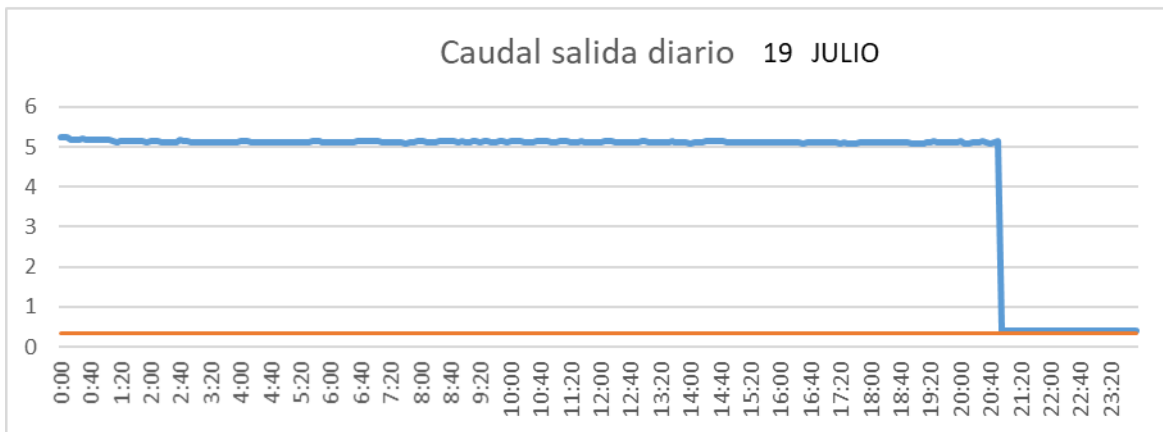
CUENCA



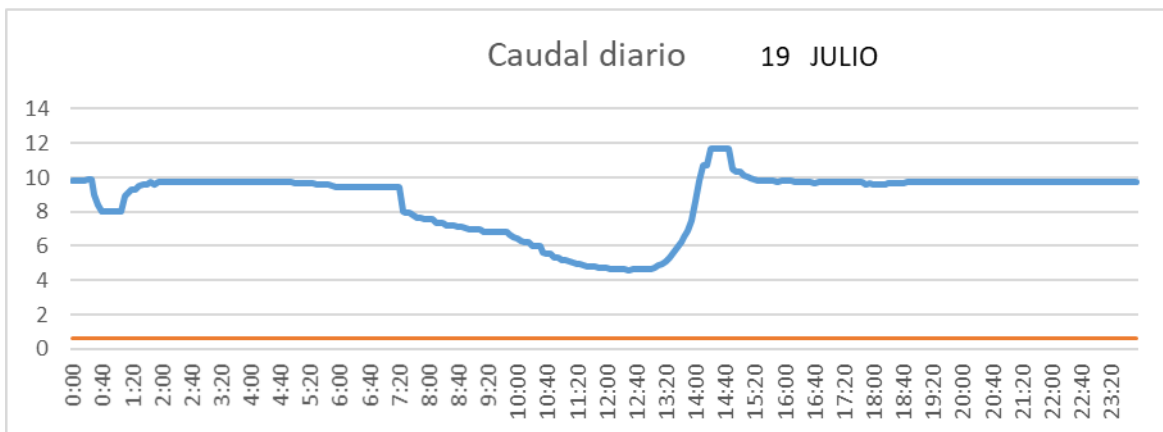
SAN LORENZO PARRILLA



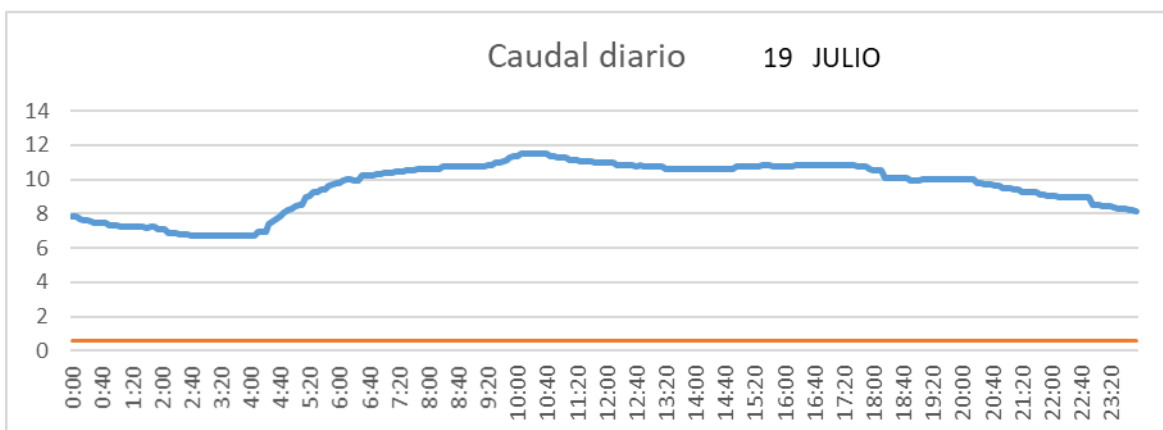
SALIDA TOBA



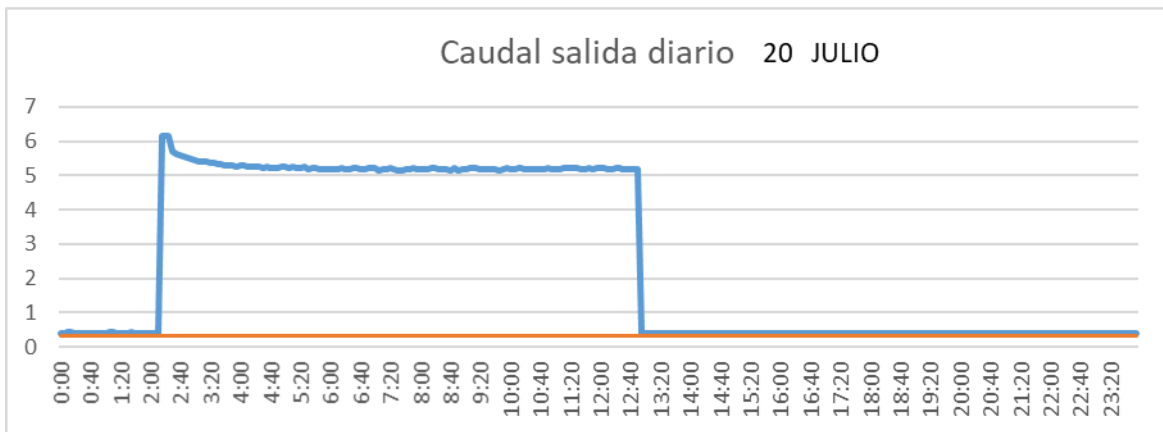
CUENCA



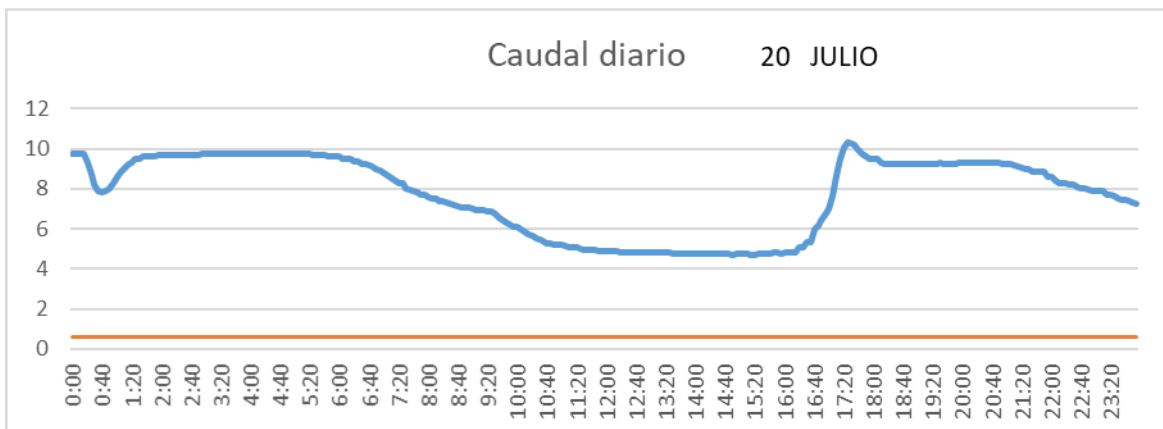
SAN LORENZO PARRILLA



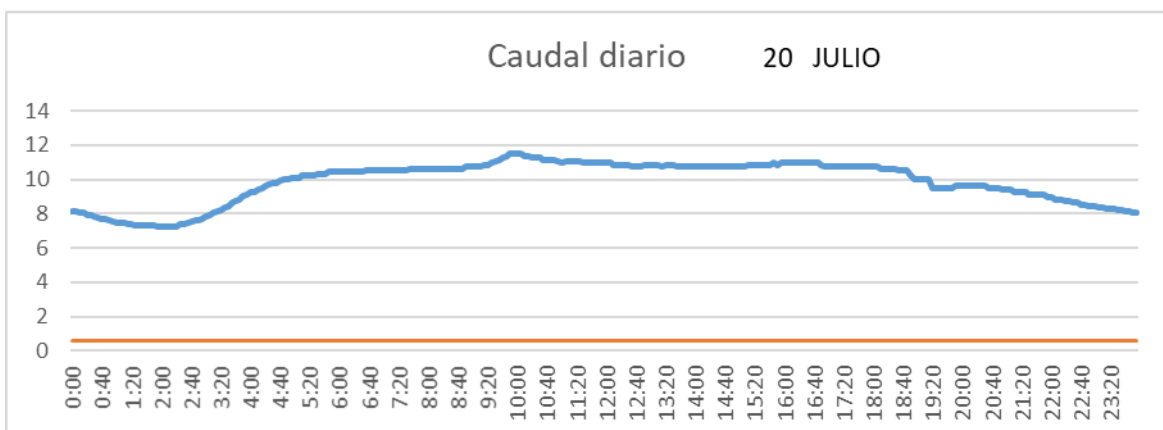
SALIDA TOBA



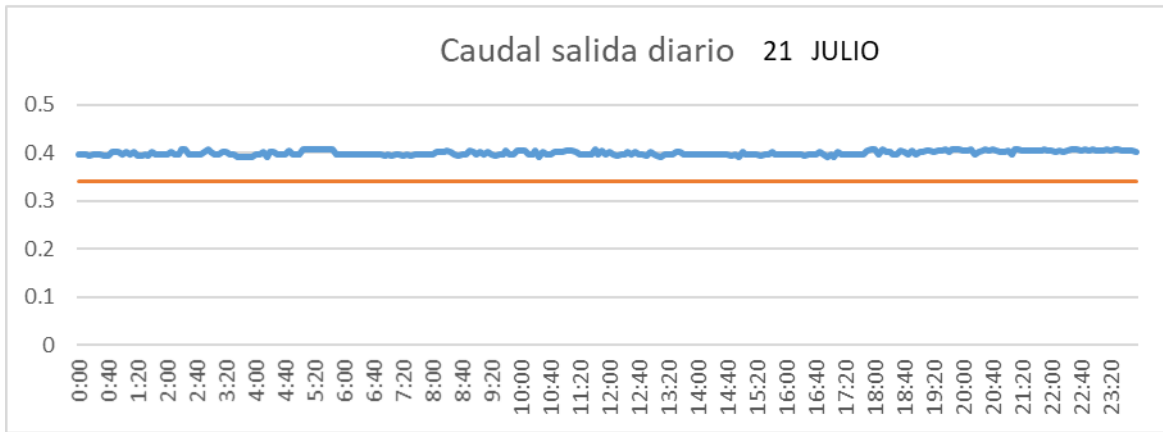
CUENCA



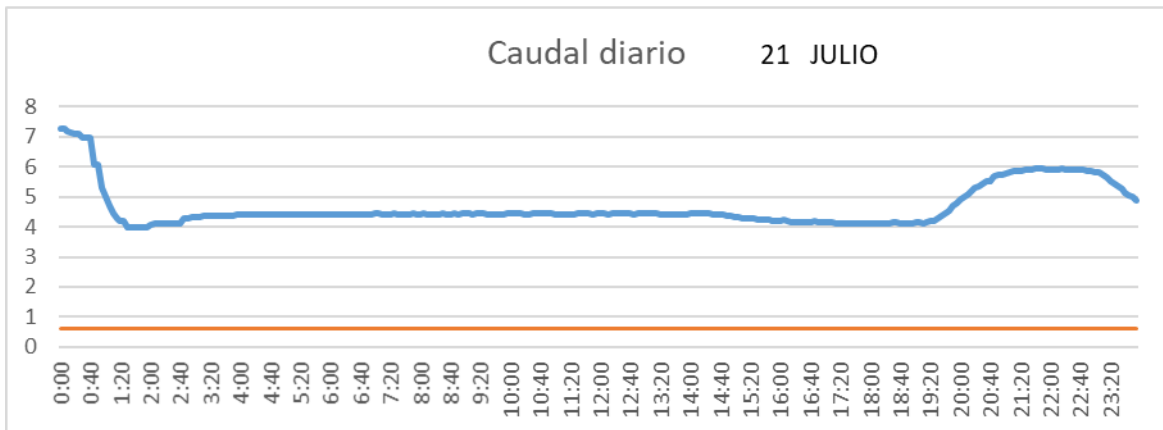
SAN LORENZO PARRILLA



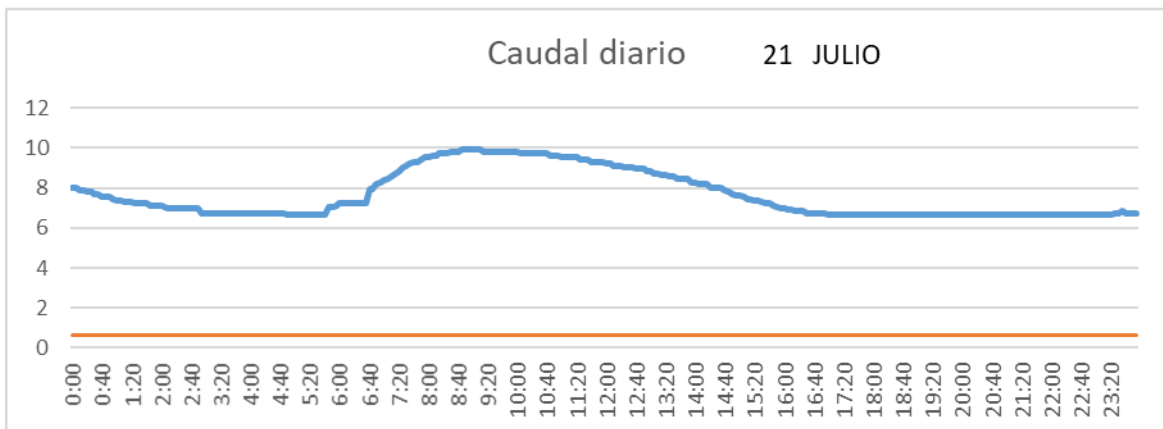
SALIDA TOBA



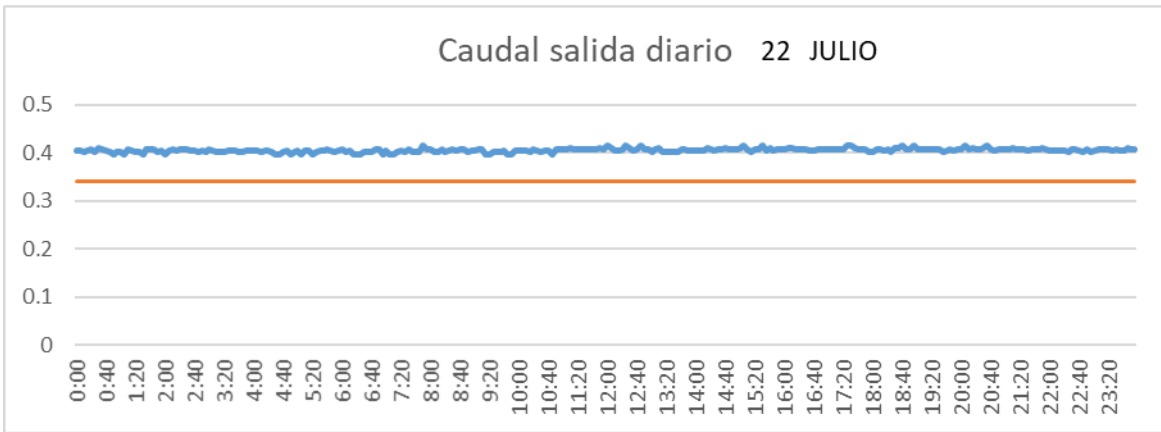
CUENCA



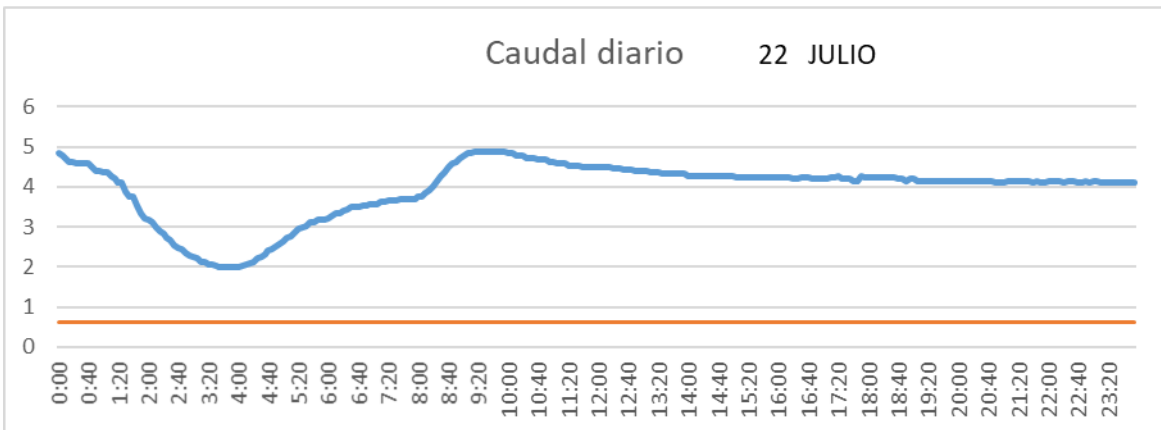
SAN LORENZO PARRILLA



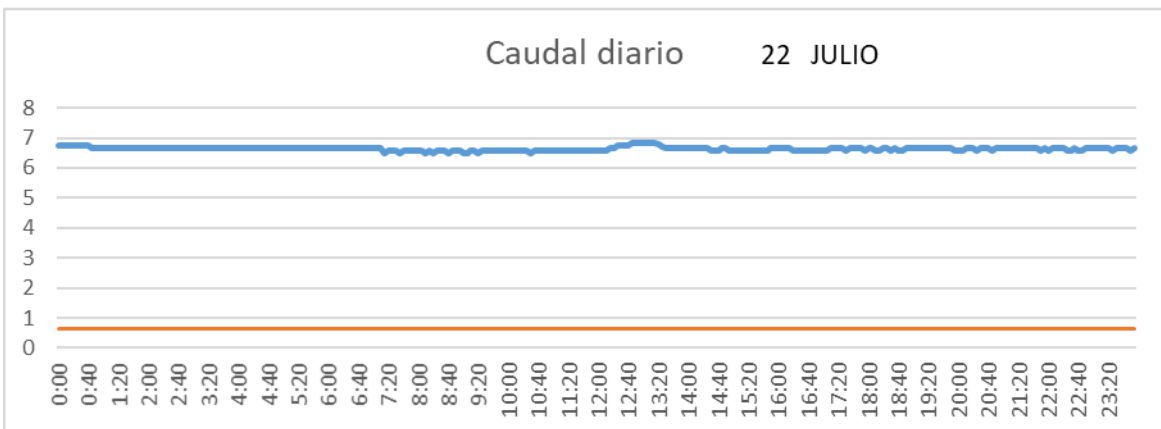
SALIDA TOBA



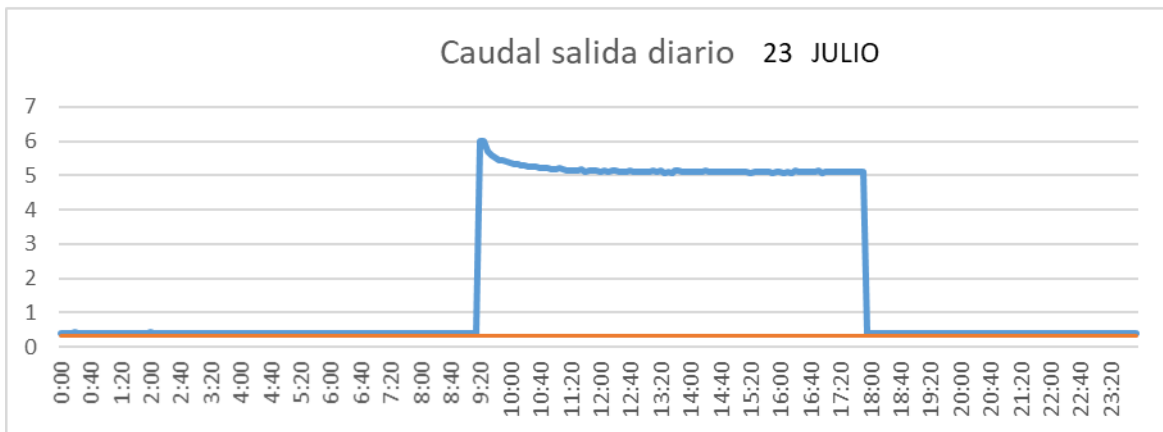
CUENCA



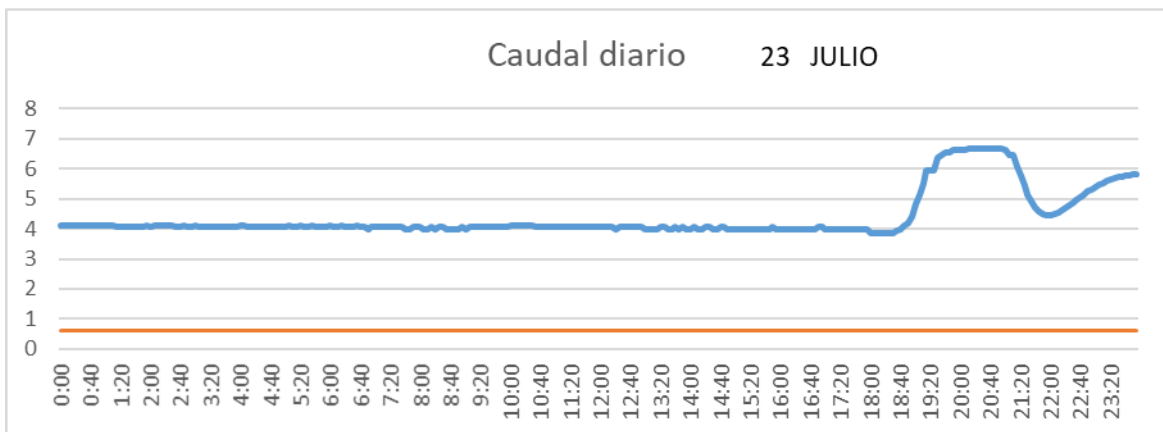
SAN LORENZO PARRILLA



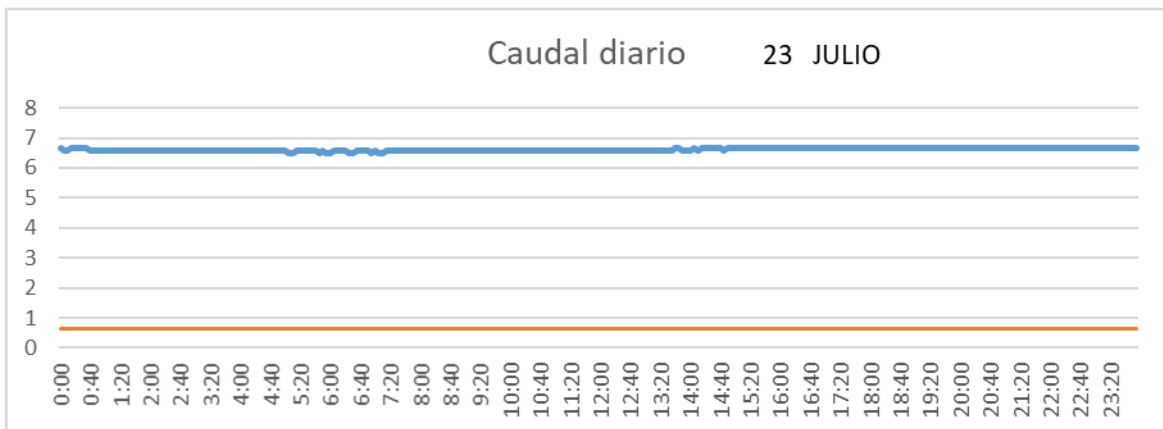
SALIDA TOBA



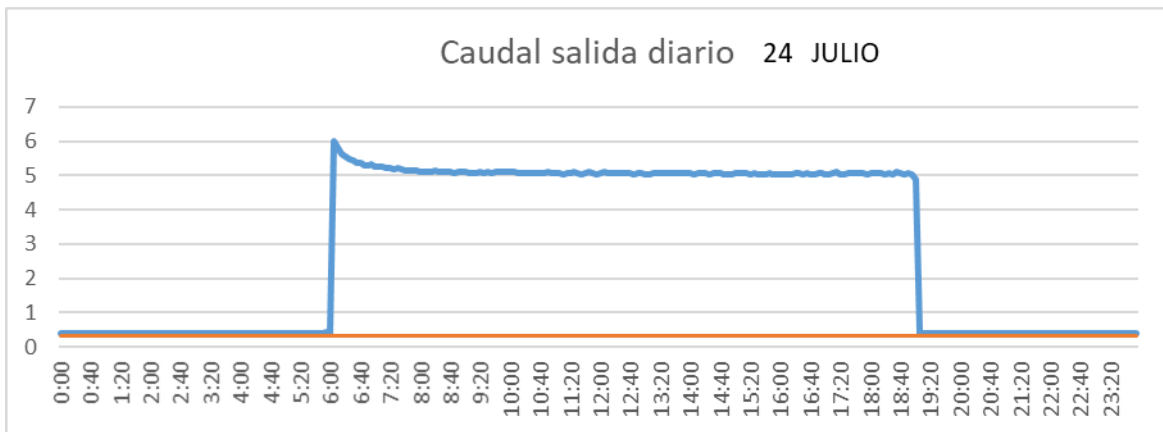
CUENCA



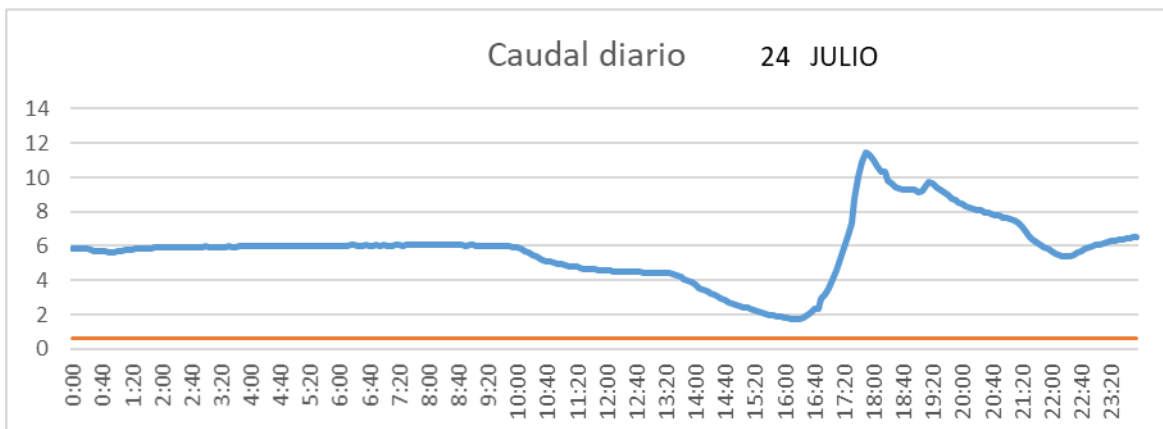
SAN LORENZO PARRILLA



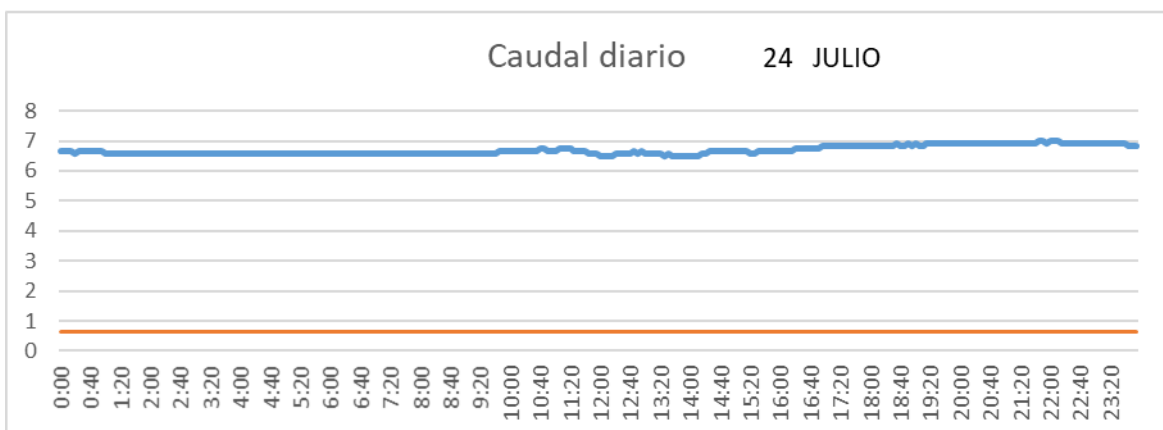
SALIDA TOBA



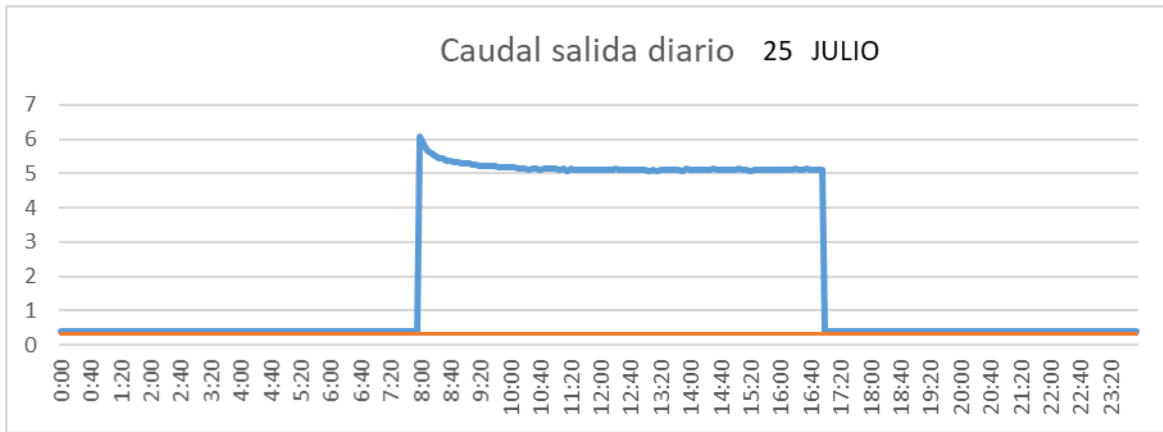
CUENCA



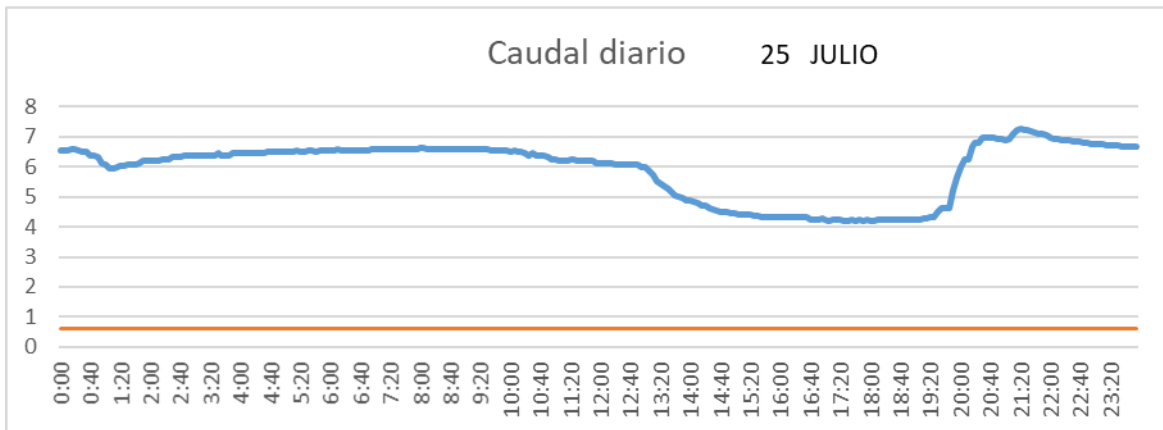
SAN LORENZO PARRILLA



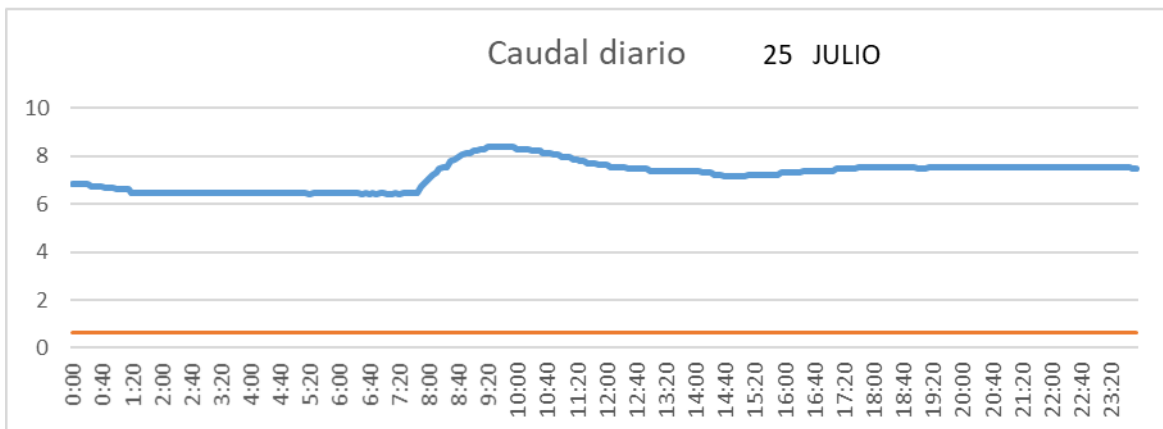
SALIDA TOBA



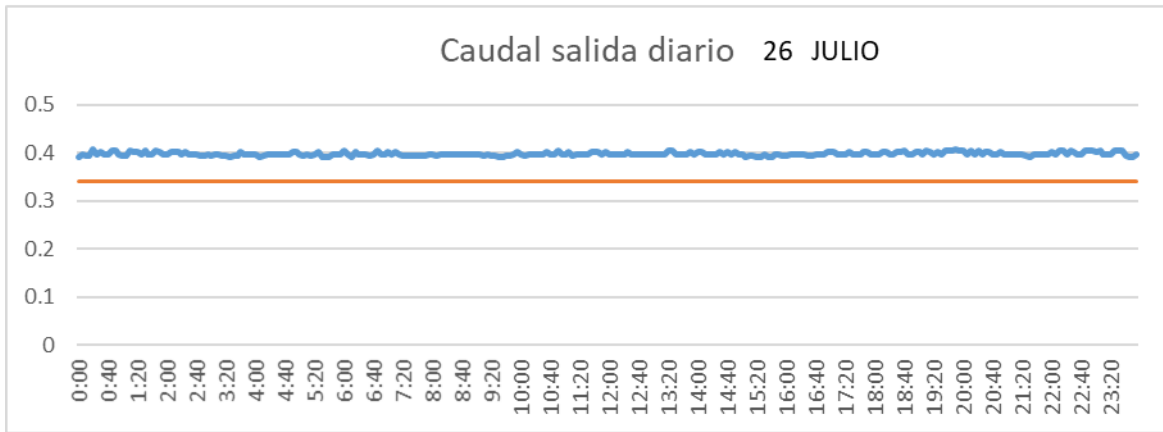
CUENCA



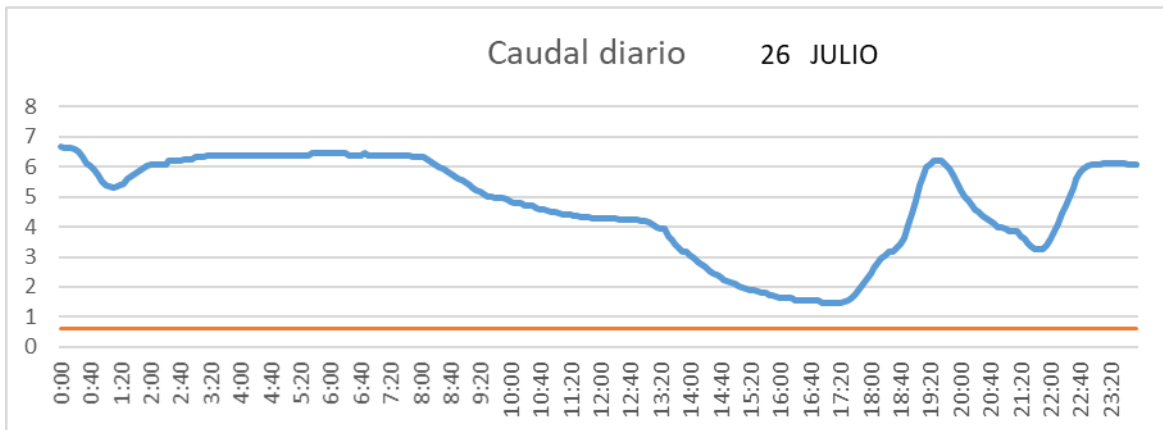
SAN LORENZO PARRILLA



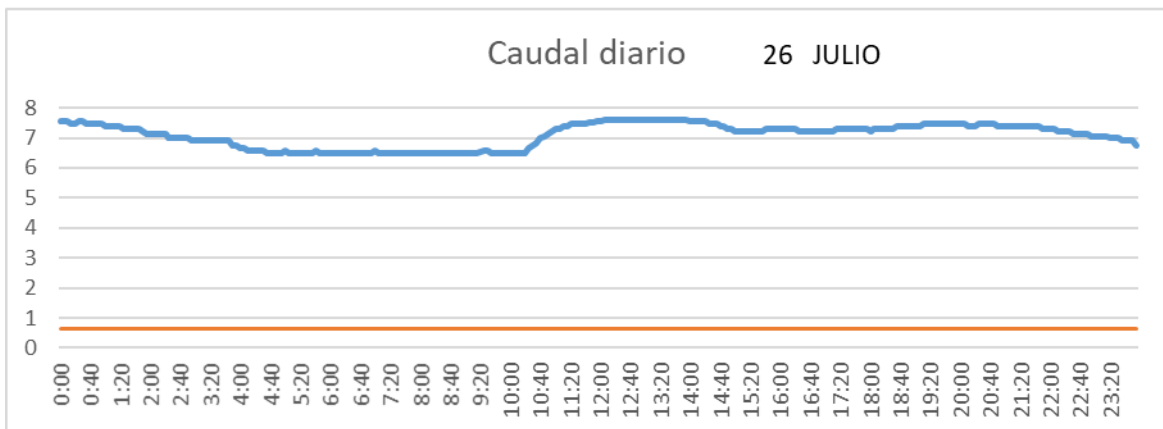
SALIDA TOBA



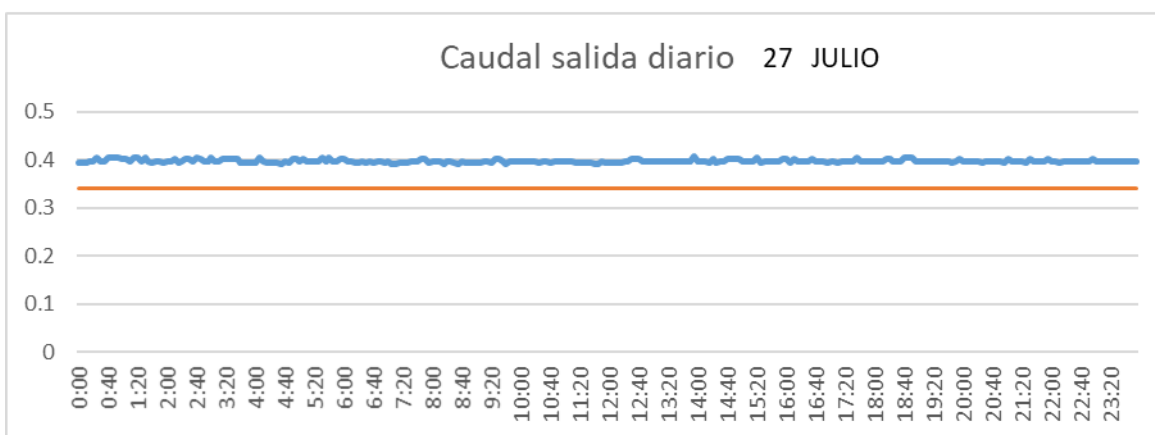
CUENCA



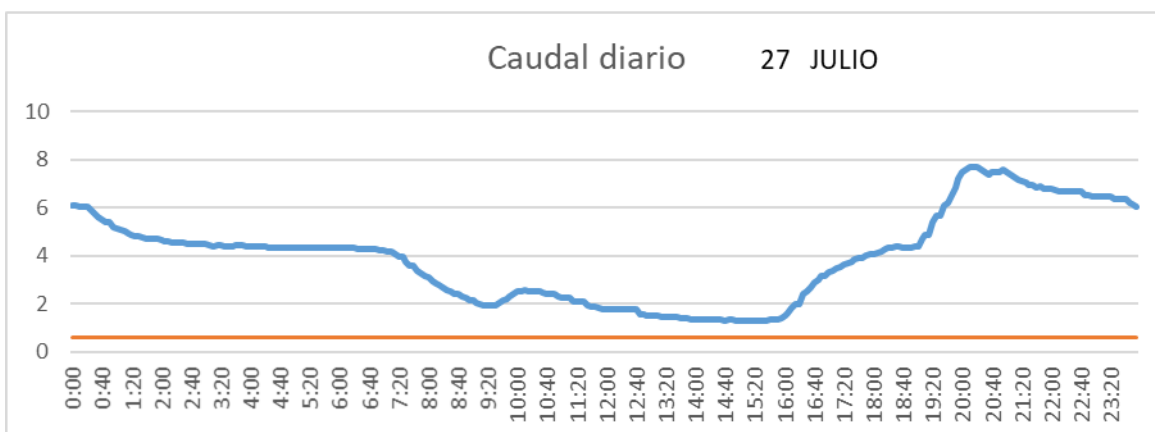
SAN LORENZO PARRILLA



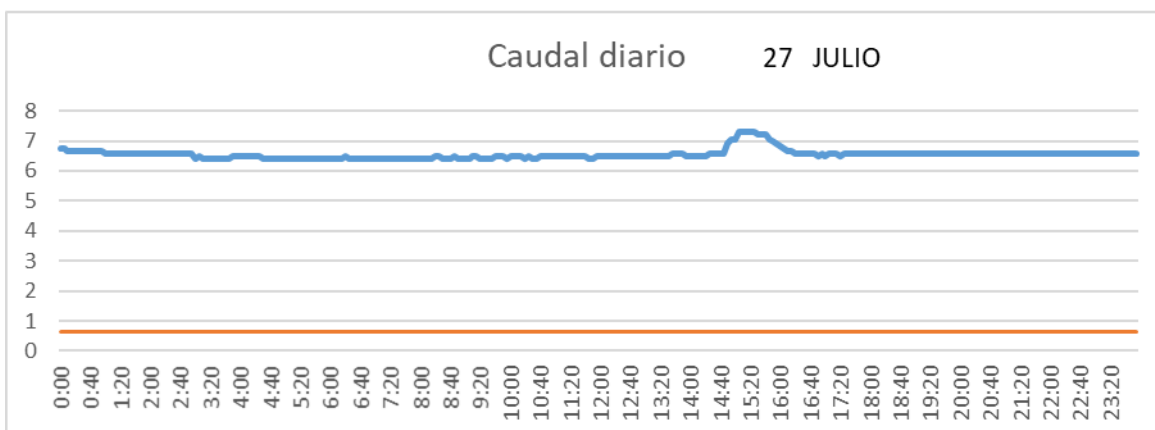
SALIDA TOBA



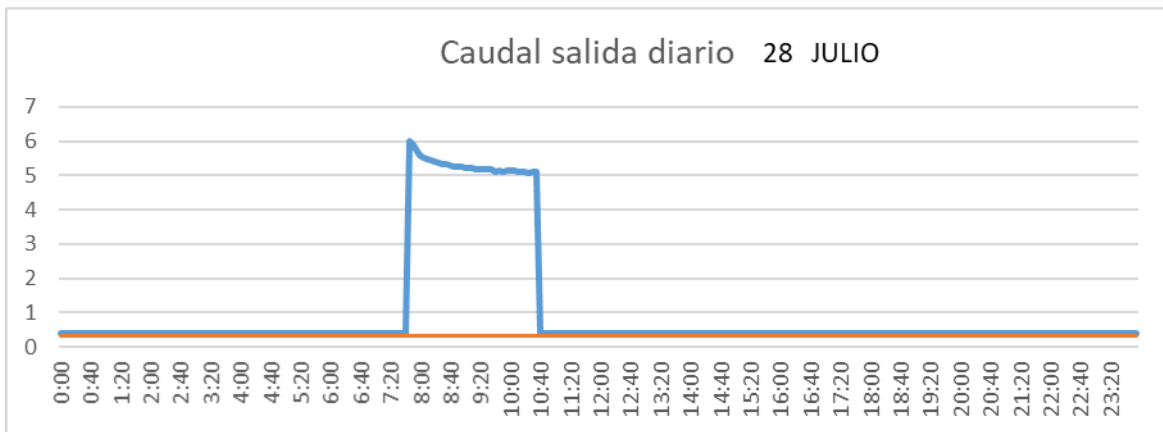
CUENCA



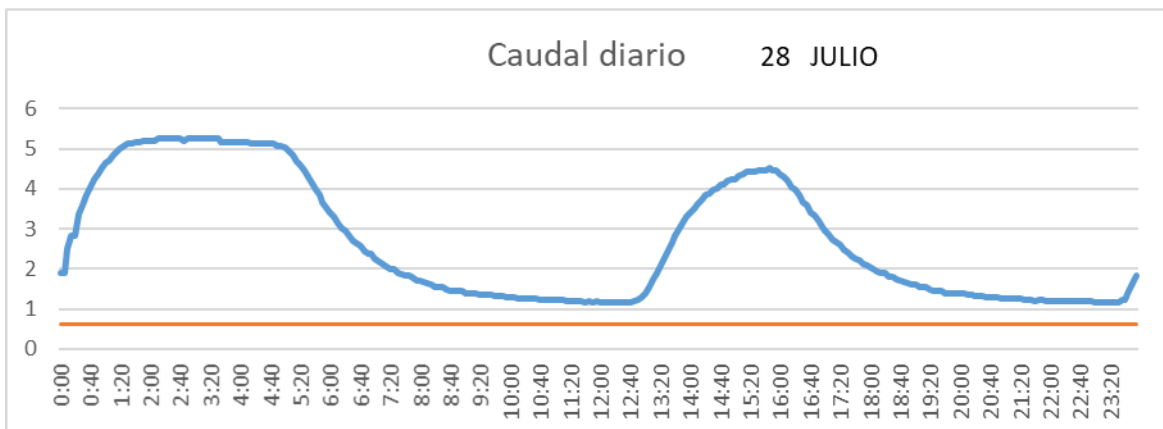
SAN LORENZO PARRILLA



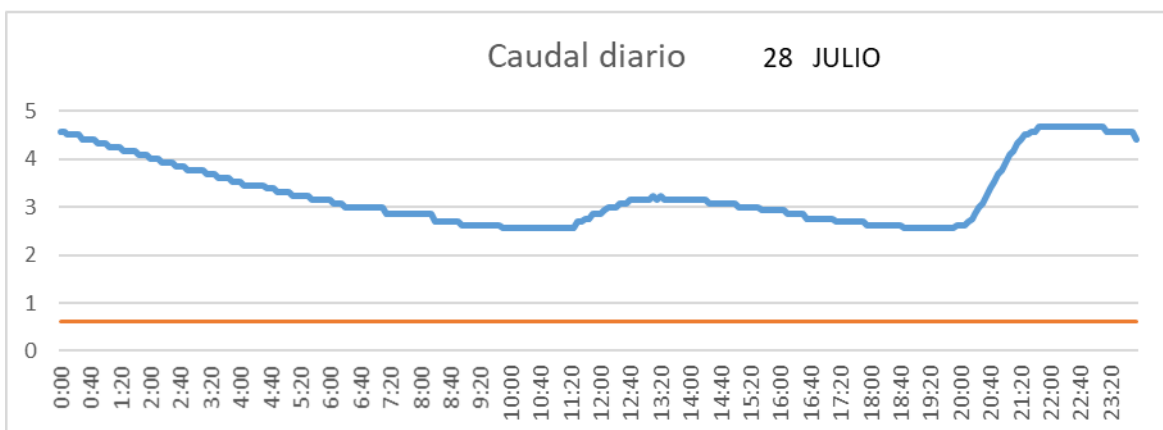
SALIDA TOBA



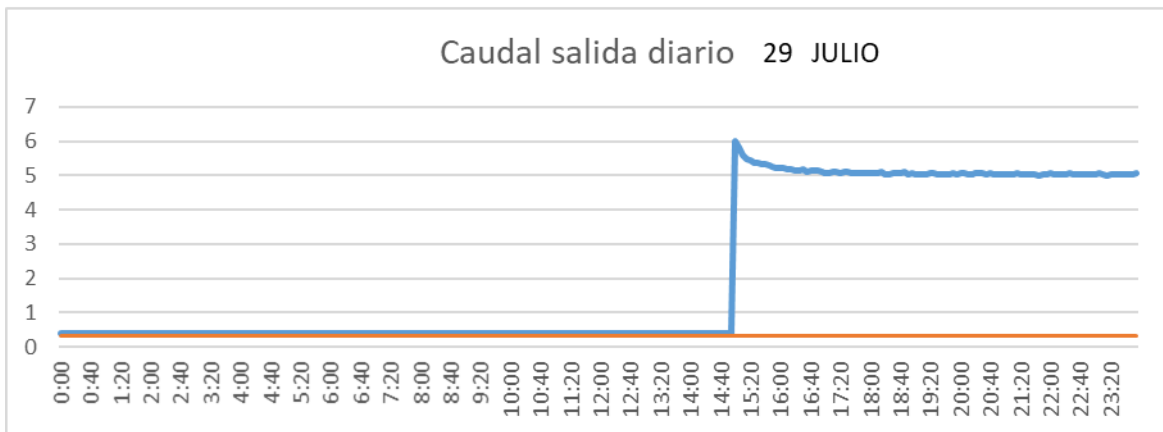
CUENCA



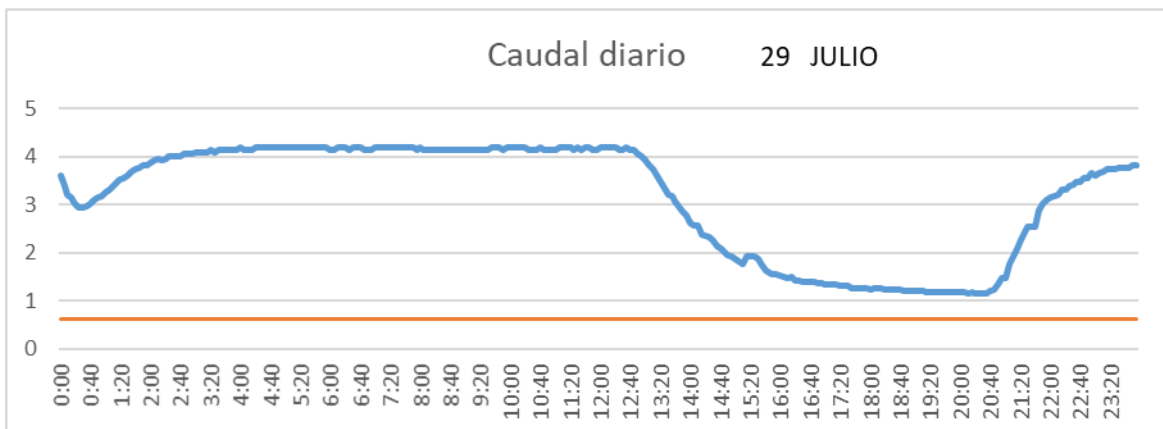
SAN LORENZO PARRILLA



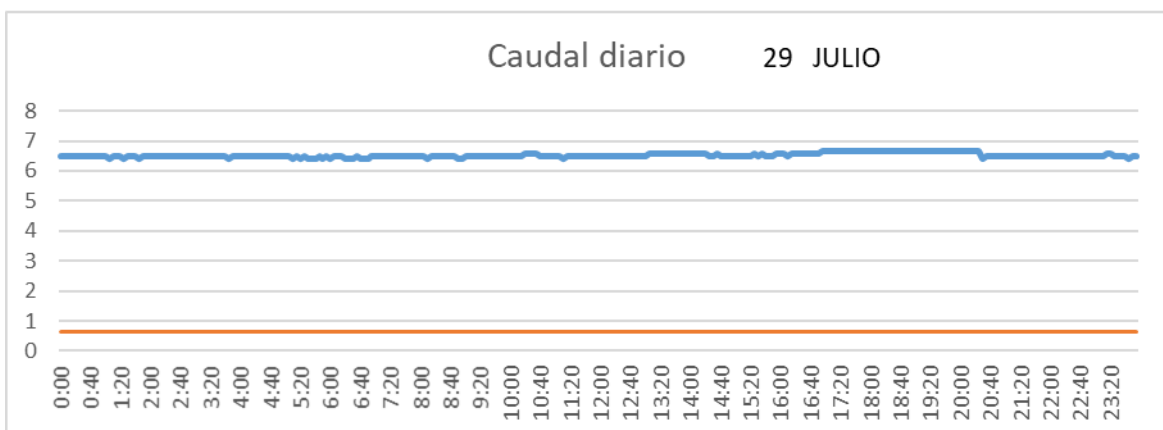
SALIDA TOBA



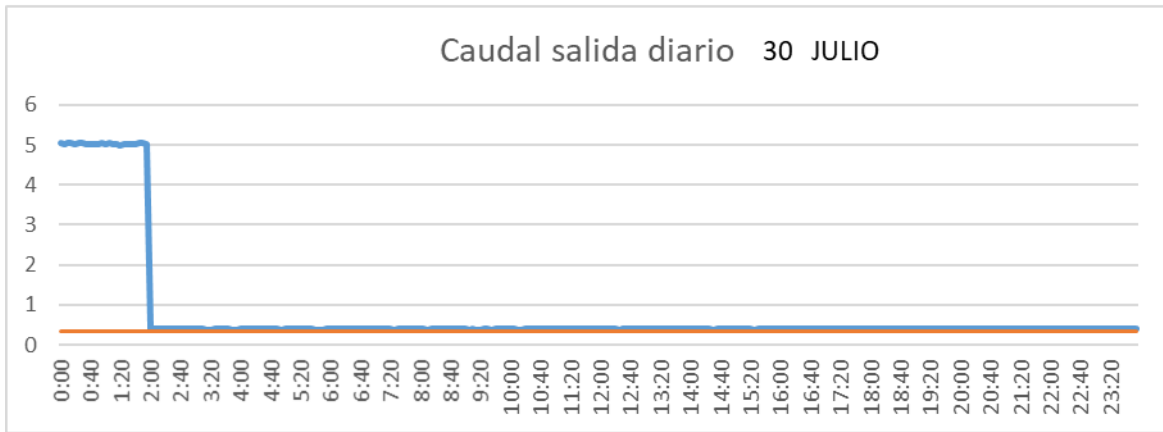
CUENCA



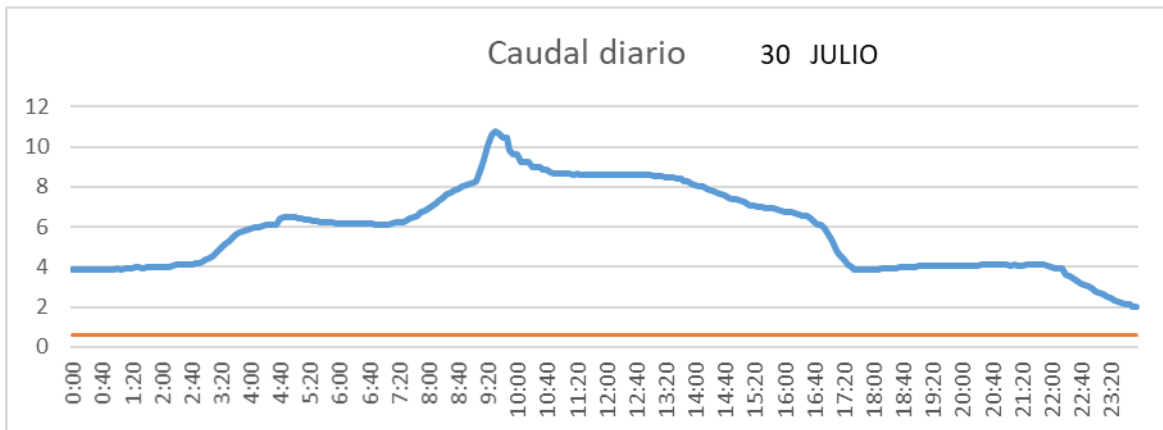
SAN LORENZO PARRILLA



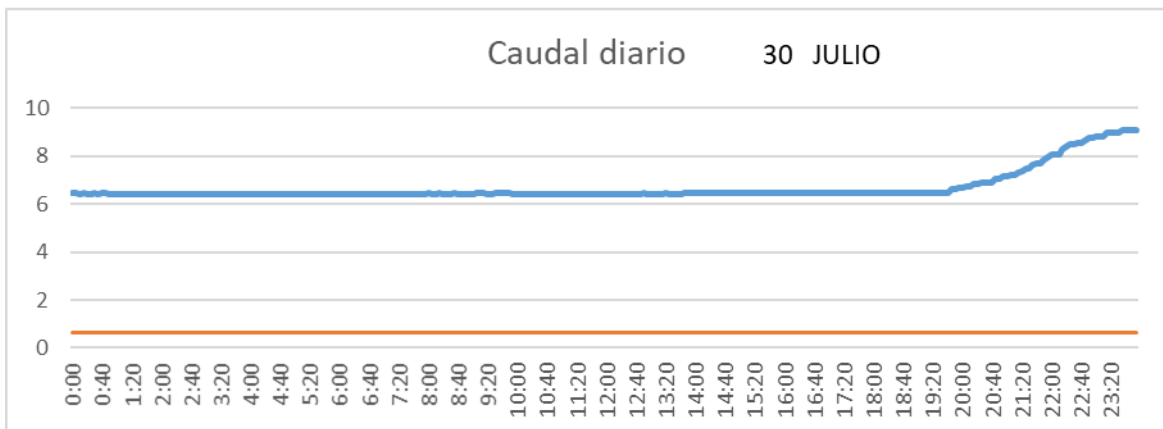
SALIDA TOBA



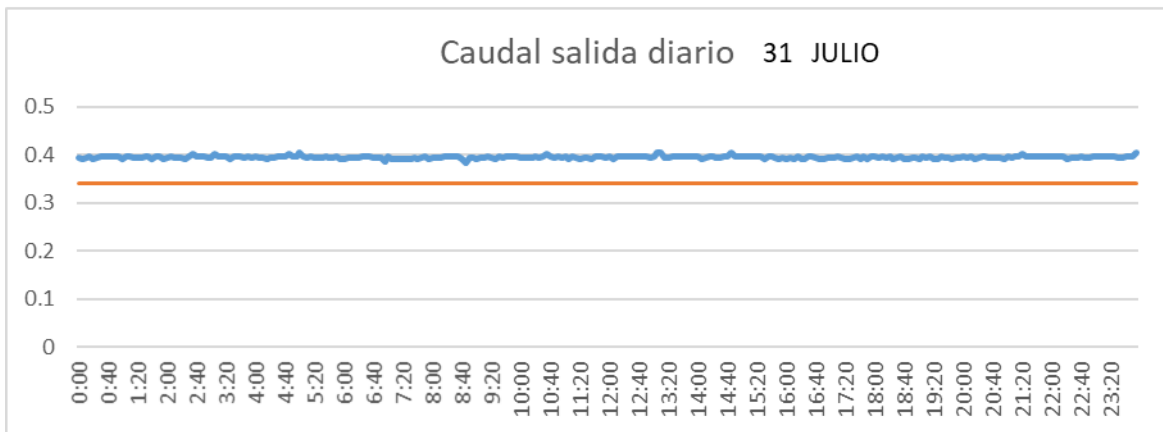
CUENCA



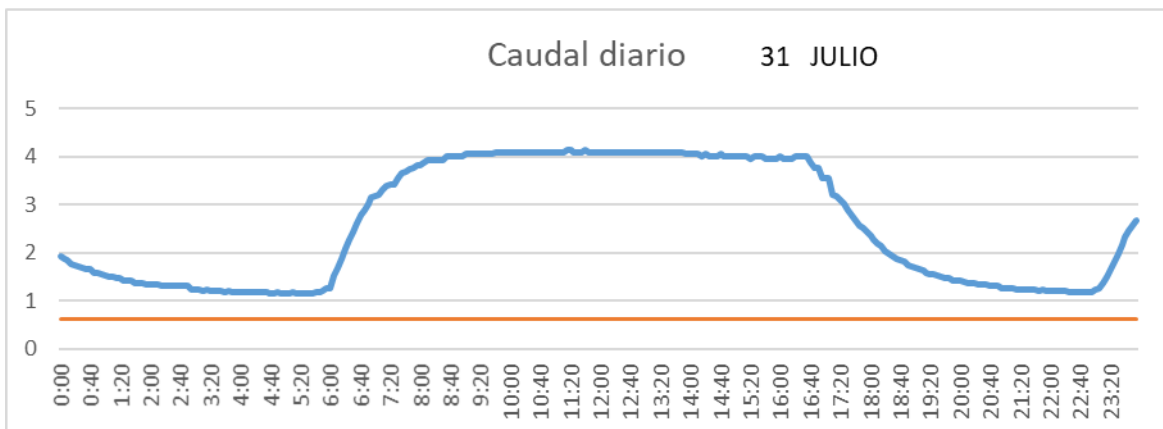
SAN LORENZO PARRILLA



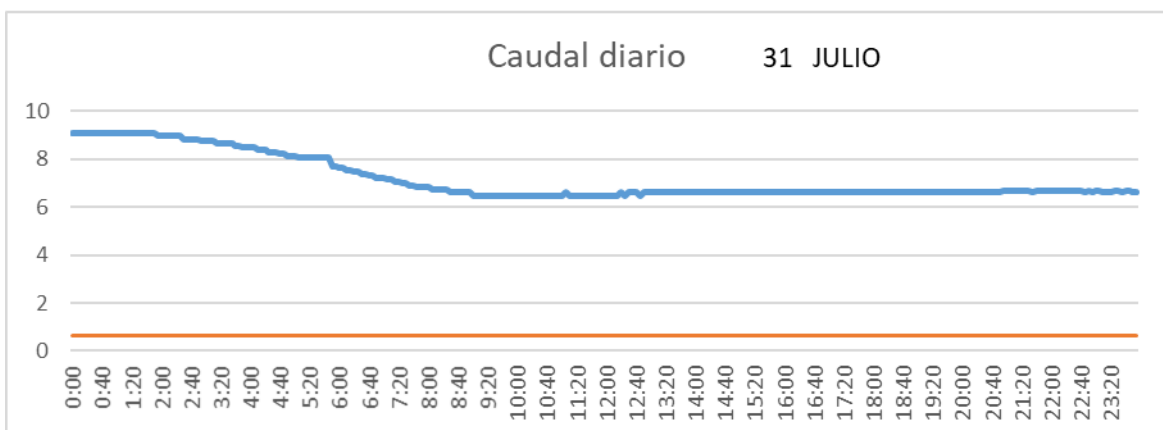
SALIDA TOBA



CUENCA

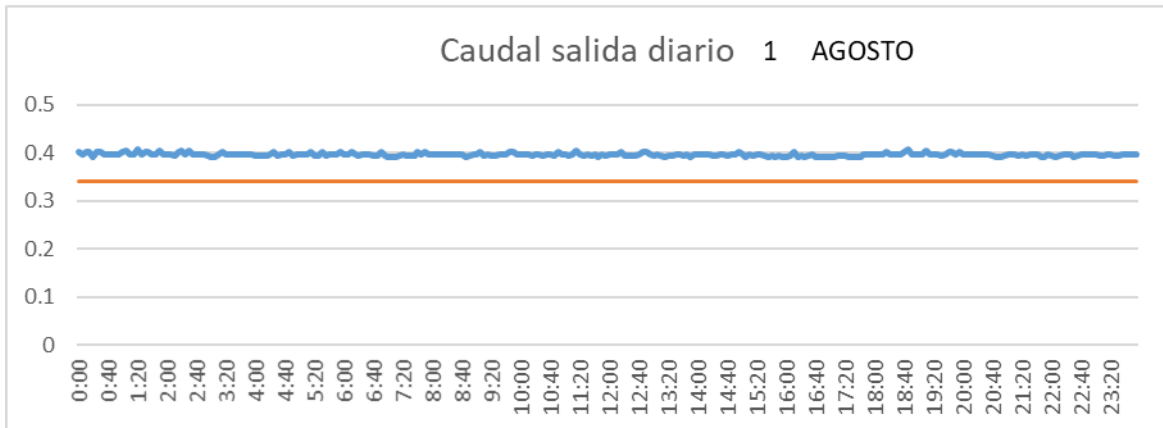


SAN LORENZO PARRILLA

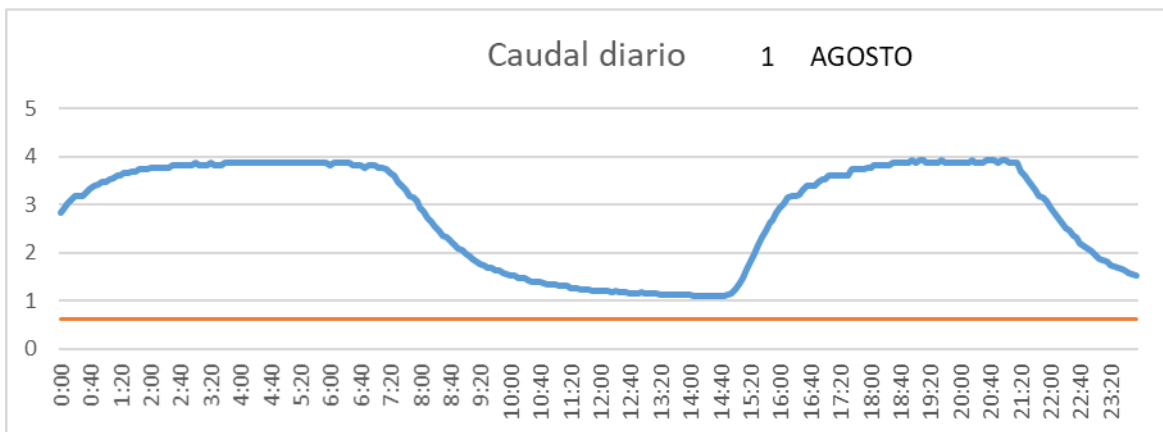


2.3.8 Agosto

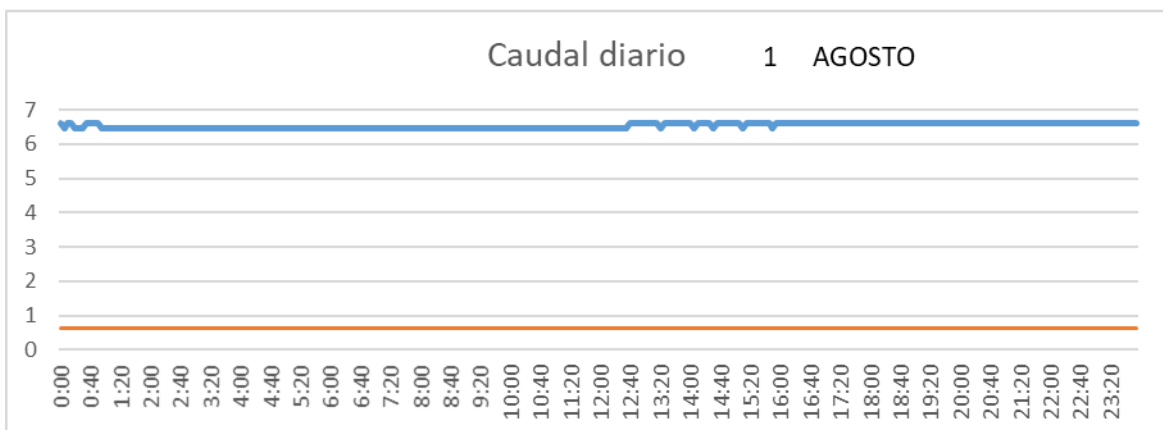
SALIDA TOBA



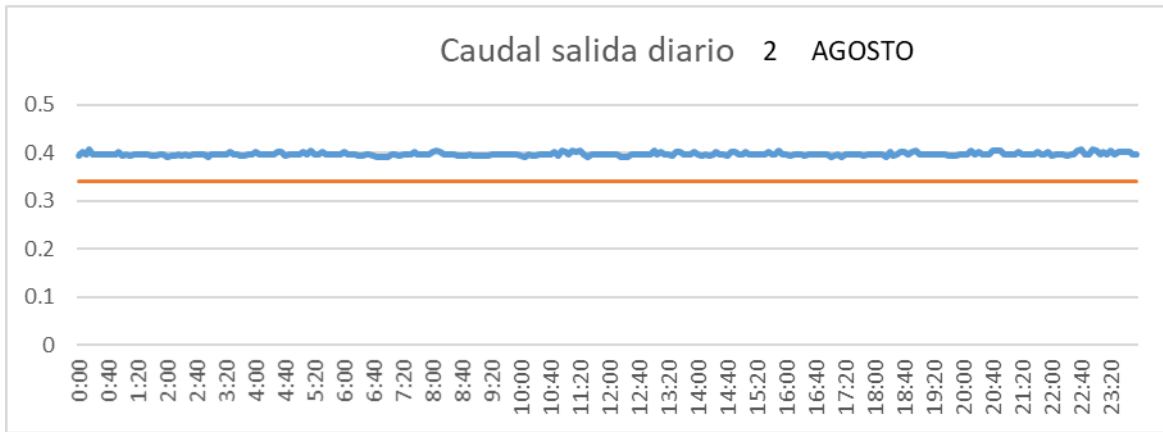
CUENCA



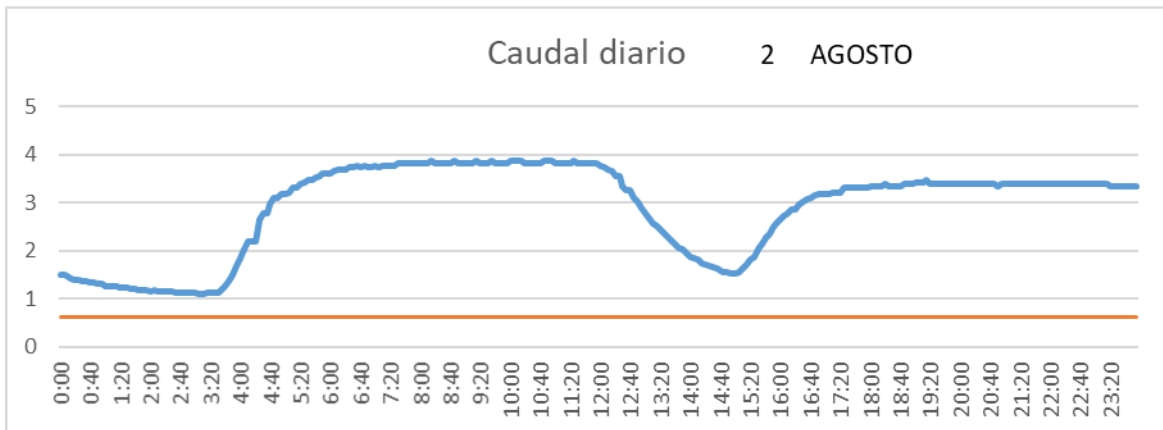
SAN LORENZO PARRILLA



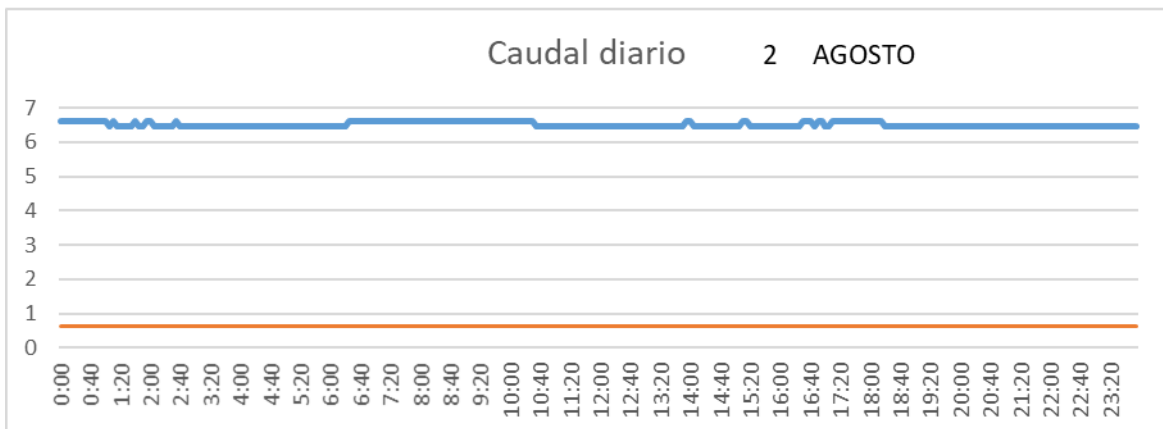
SALIDA TOBA



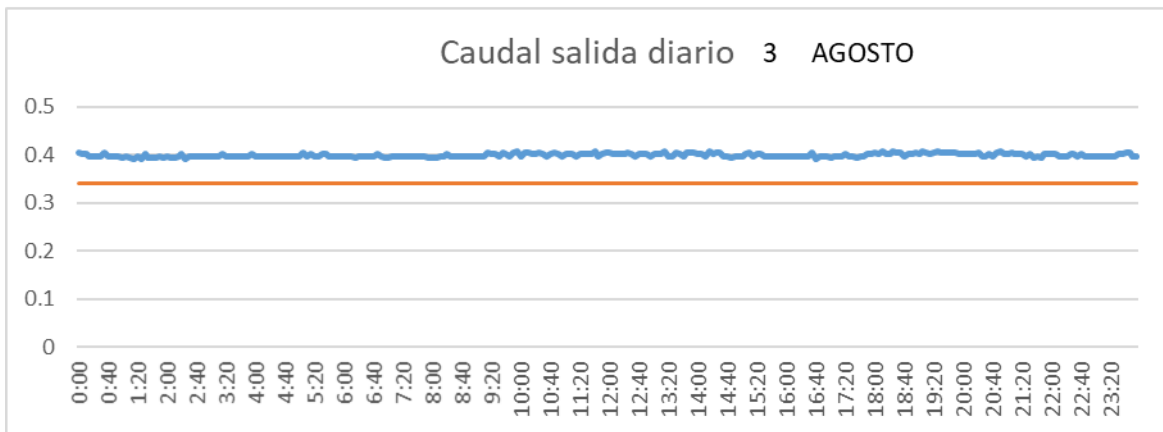
CUENCA



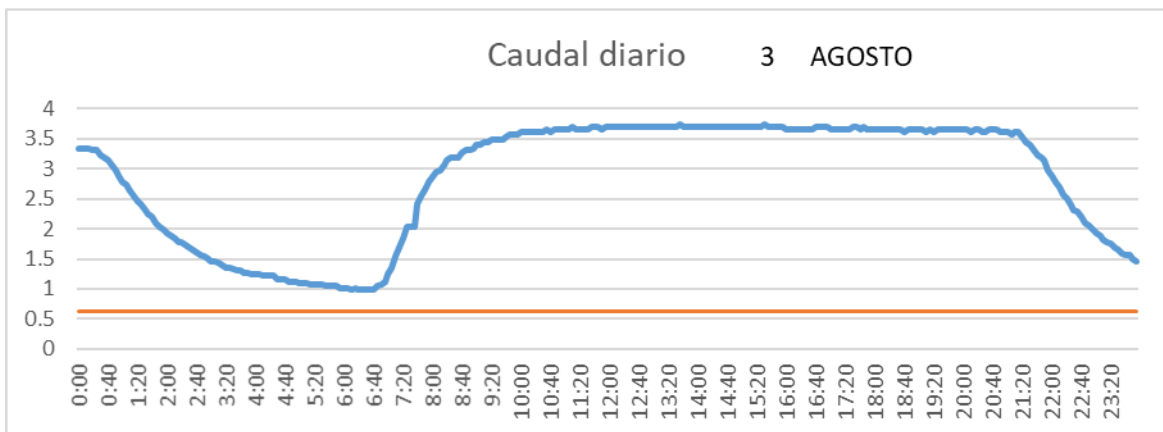
SAN LORENZO PARRILLA



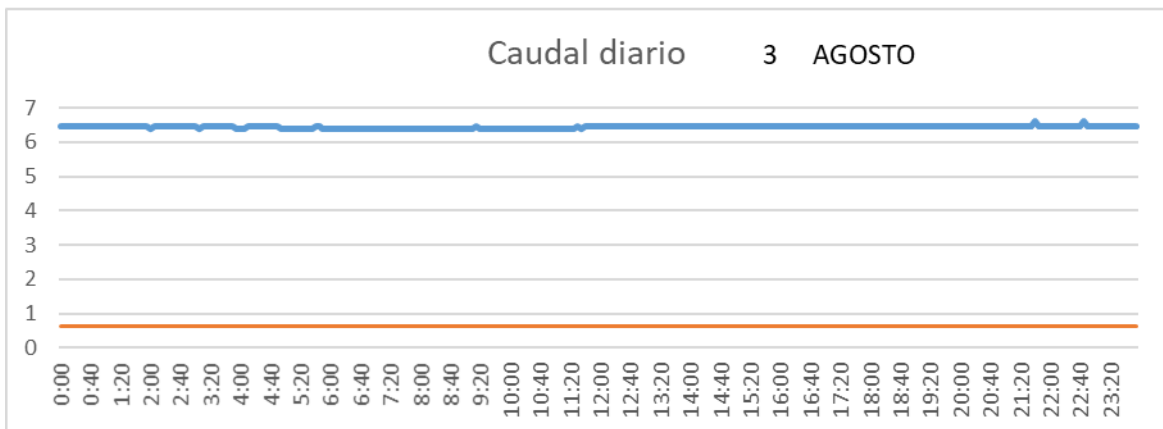
SALIDA TOBA



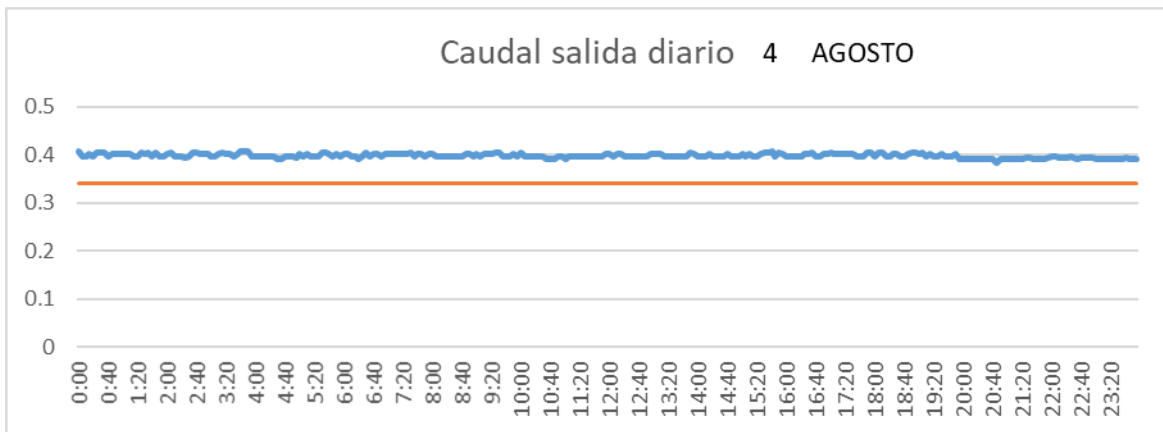
CUENCA



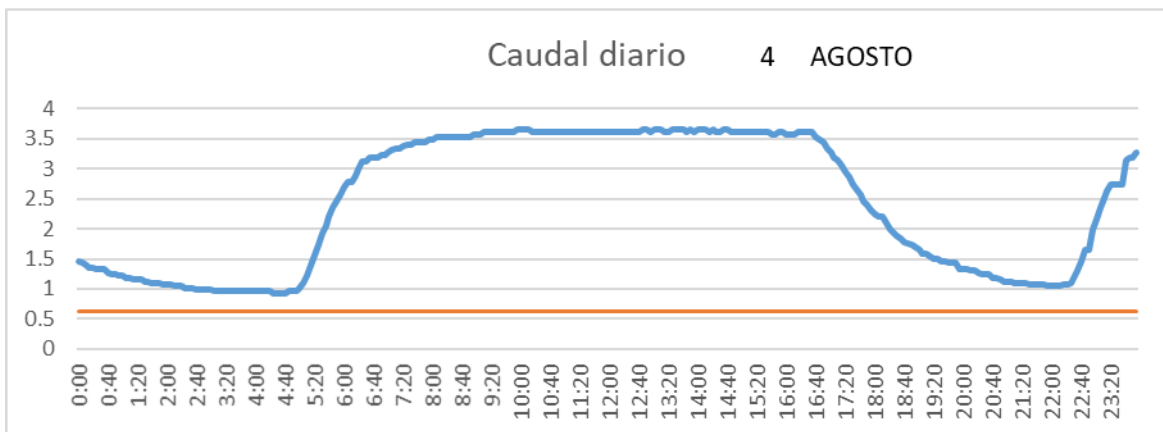
SAN LORENZO PARRILLA



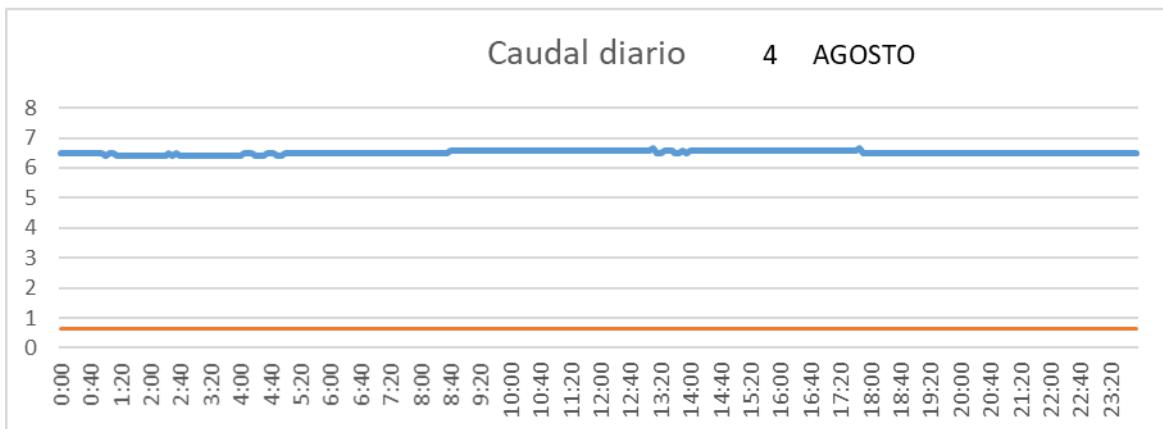
SALIDA TOBA



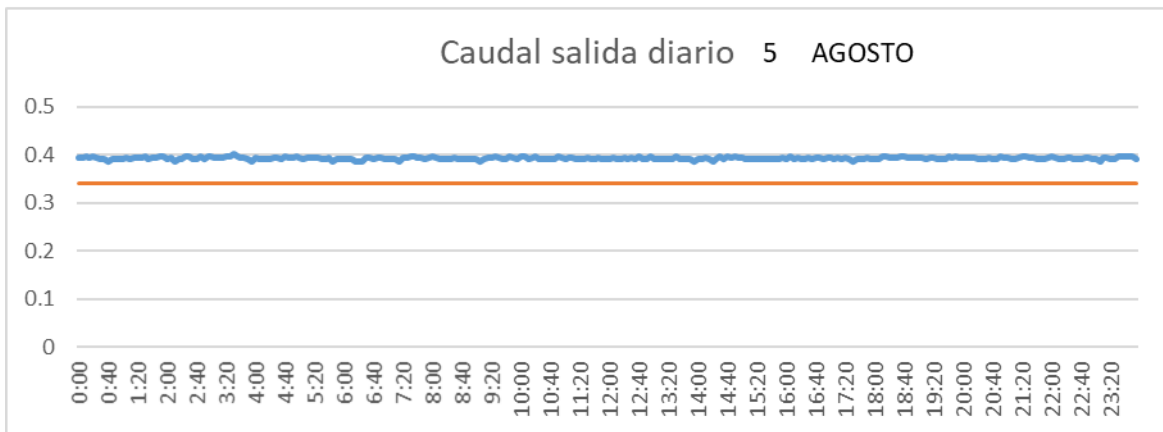
CUENCA



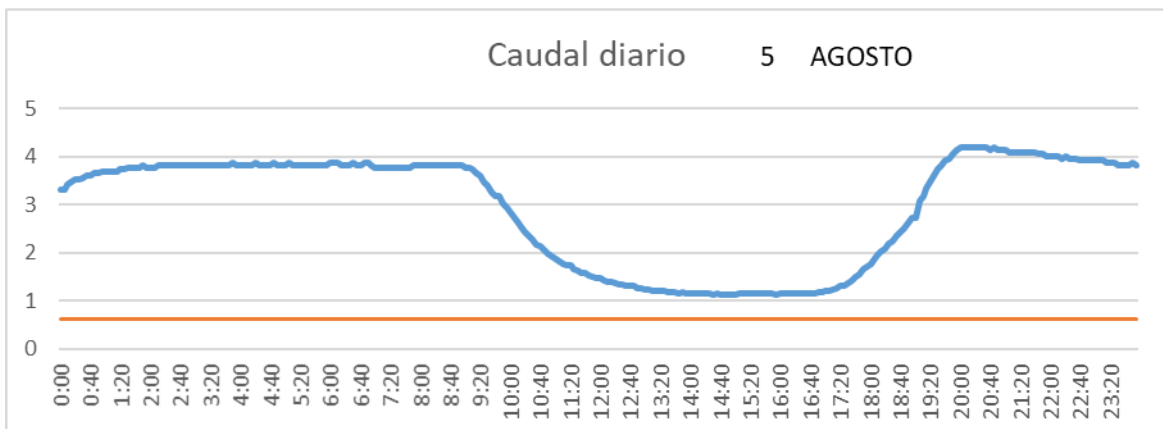
SAN LORENZO PARRILLA



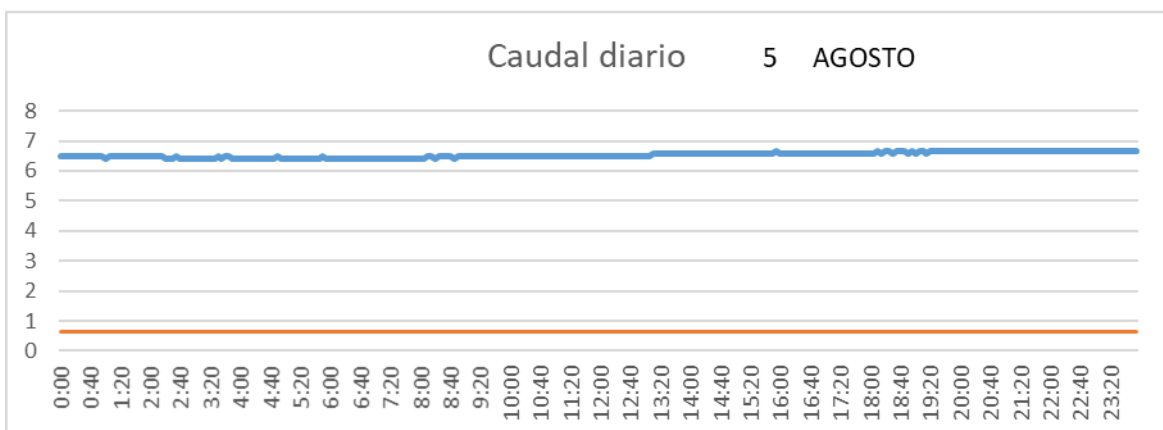
SALIDA TOBA



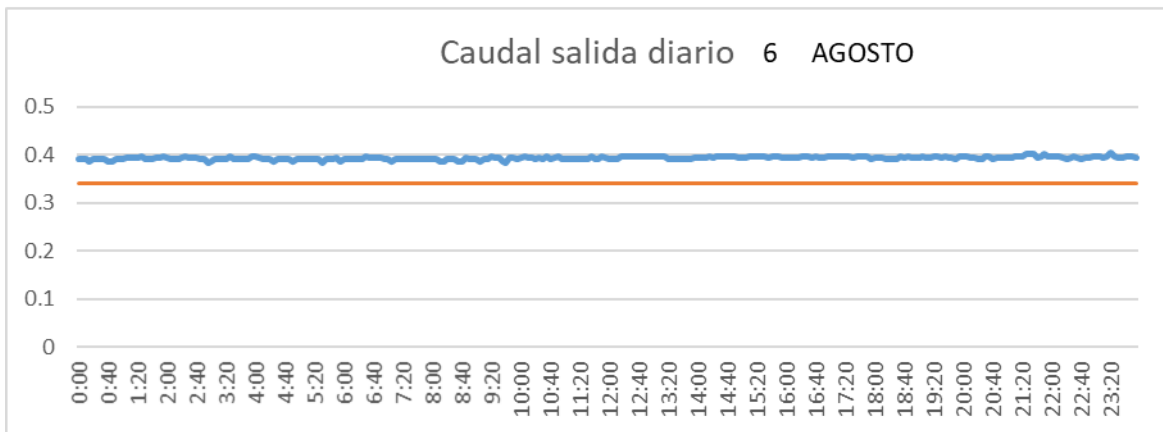
CUENCA



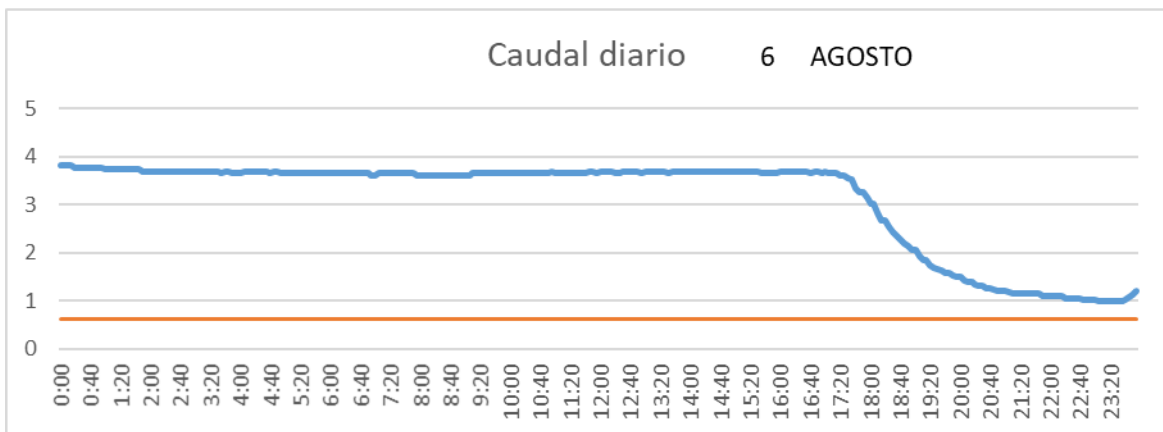
SAN LORENZO PARRILLA



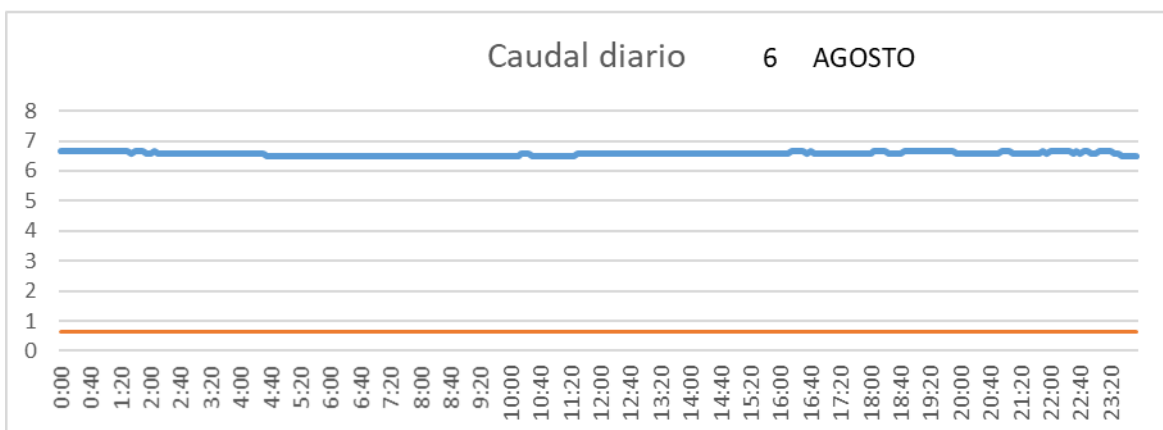
SALIDA TOBA



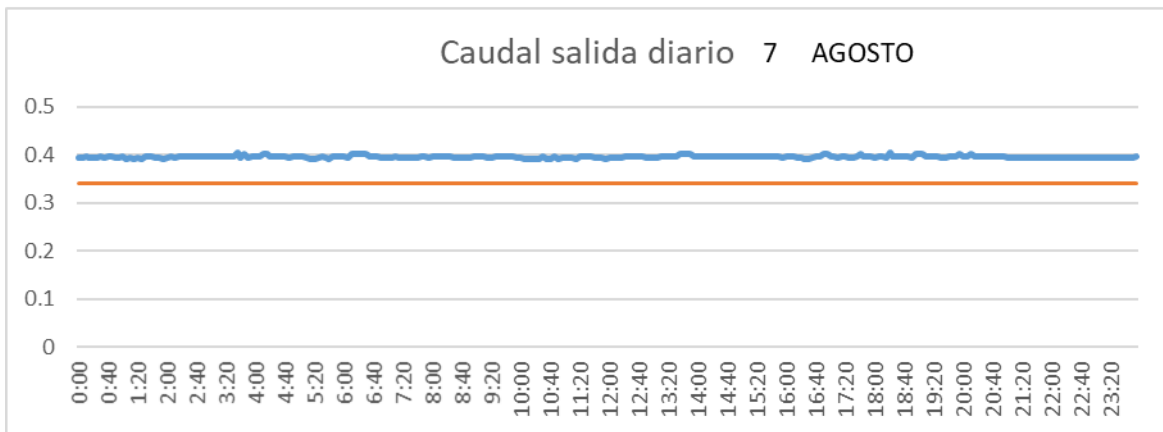
CUENCA



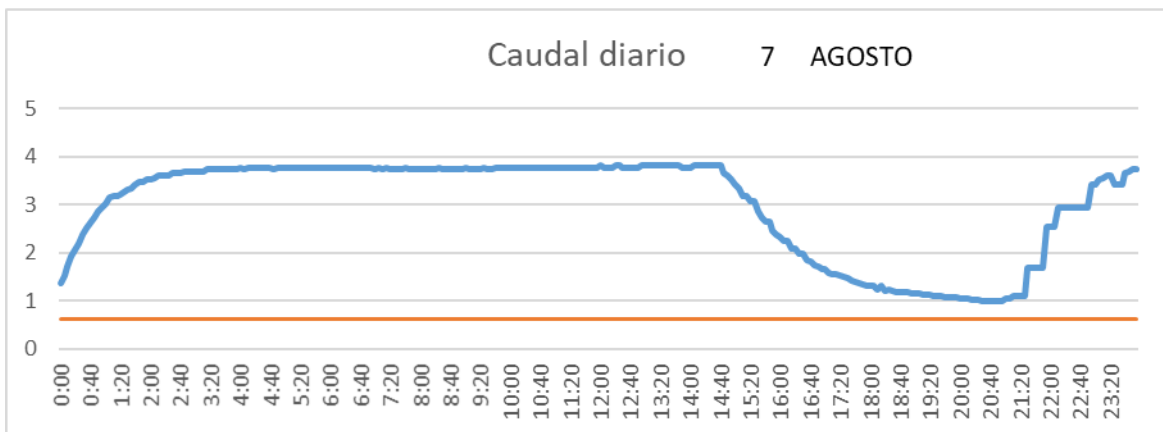
SAN LORENZO PARRILLA



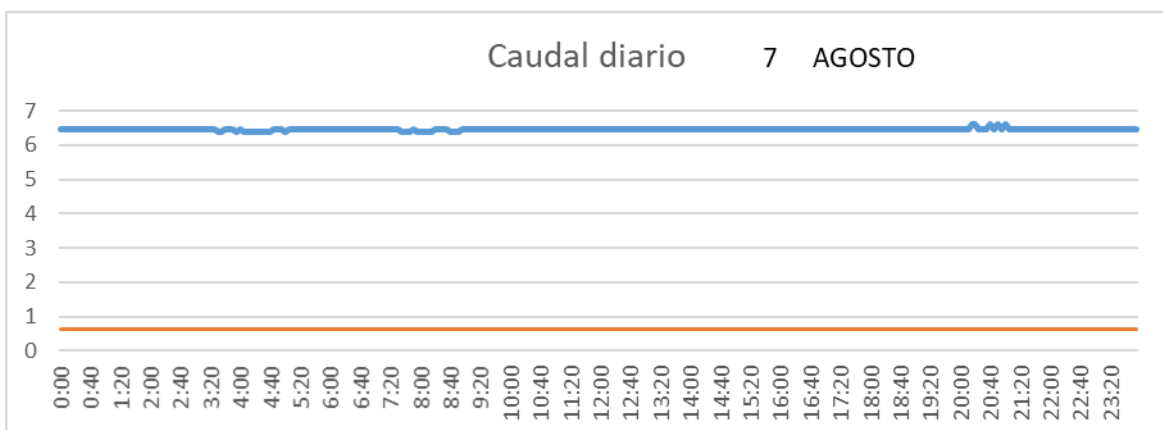
SALIDA TOBA



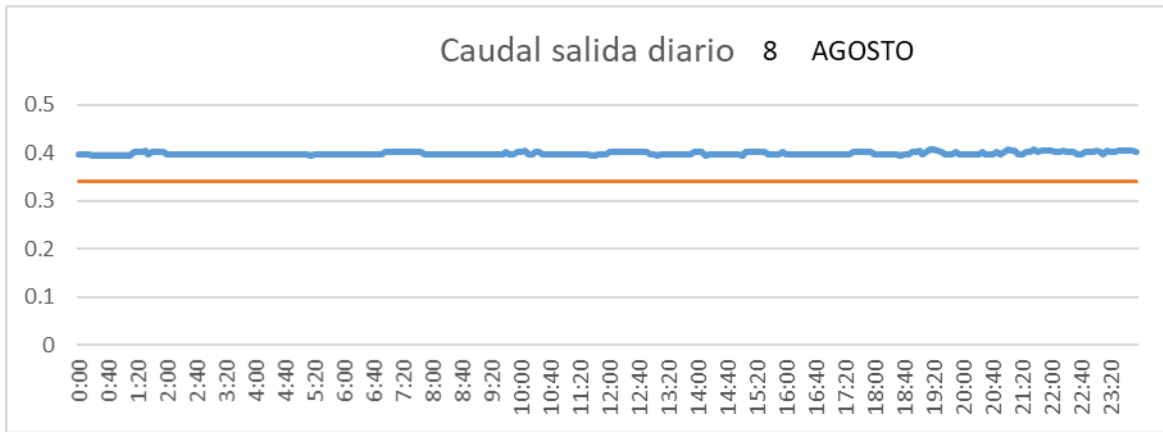
CUENCA



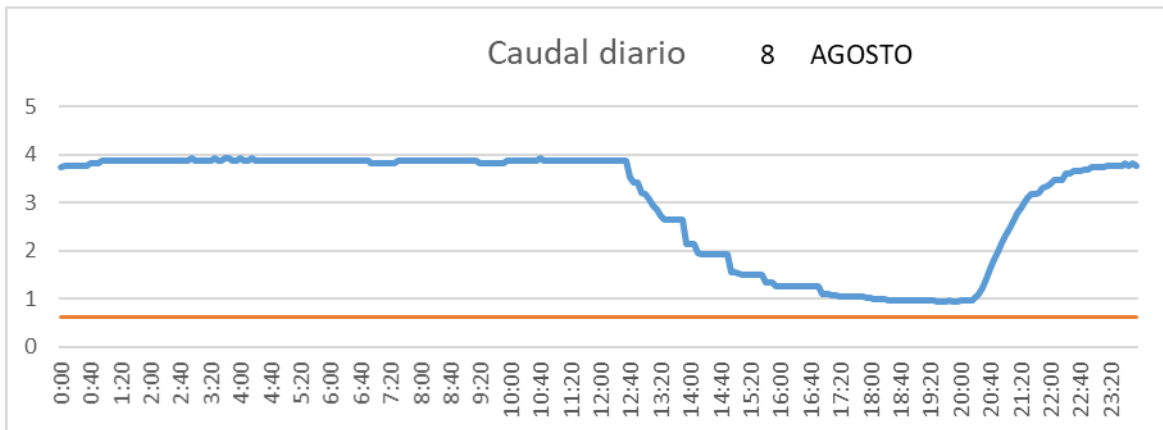
SAN LORENZO PARRILLA



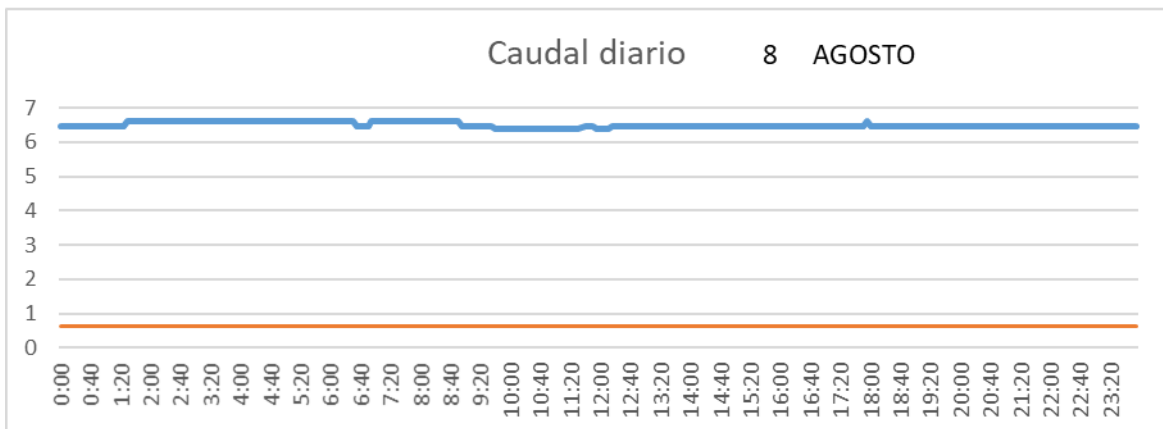
SALIDA TOBA



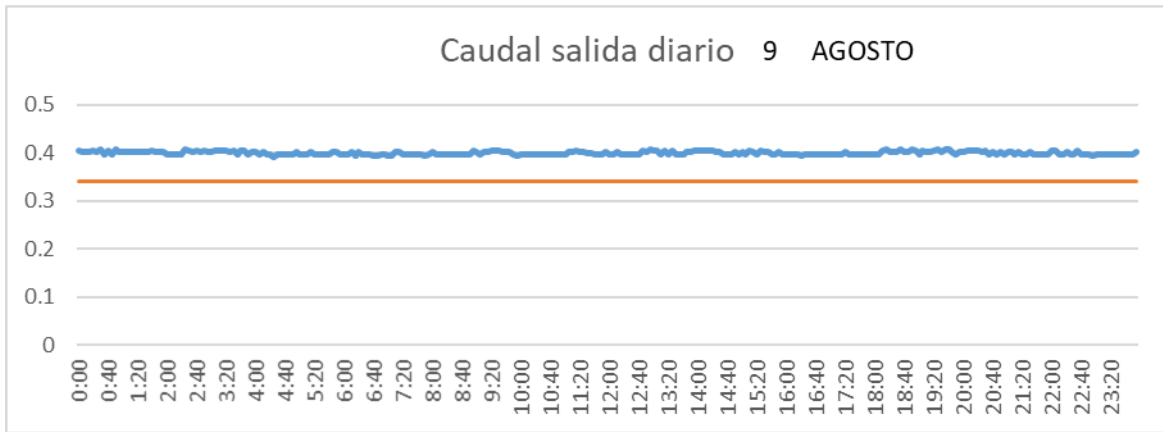
CUENCA



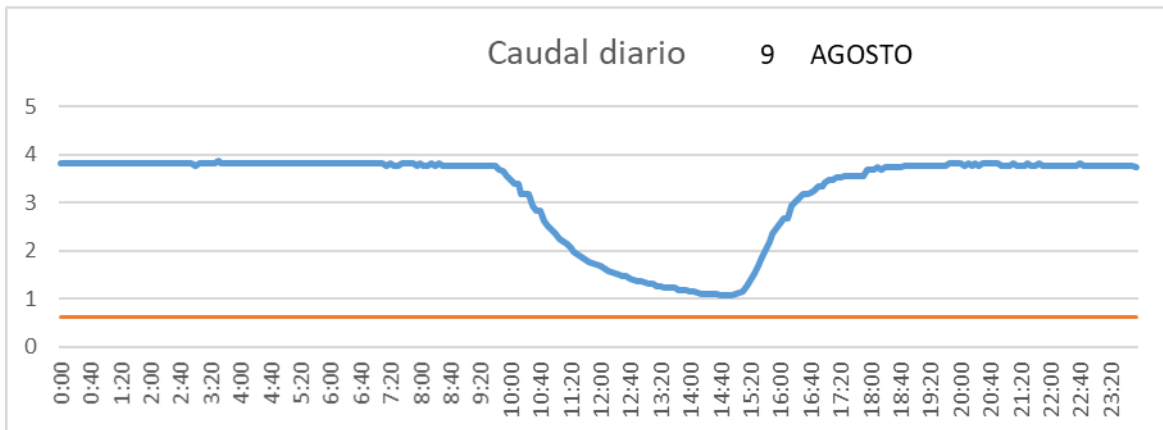
SAN LORENZO PARRILLA



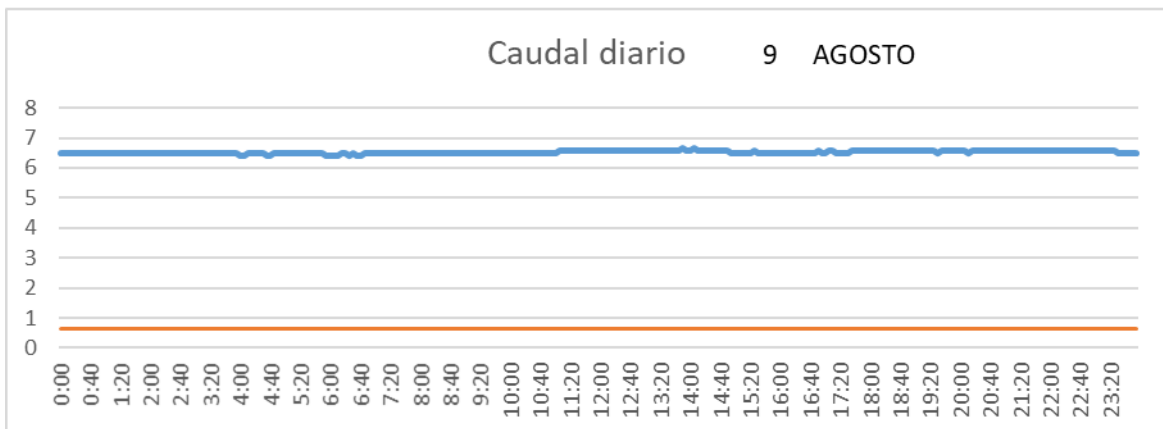
SALIDA TOBA



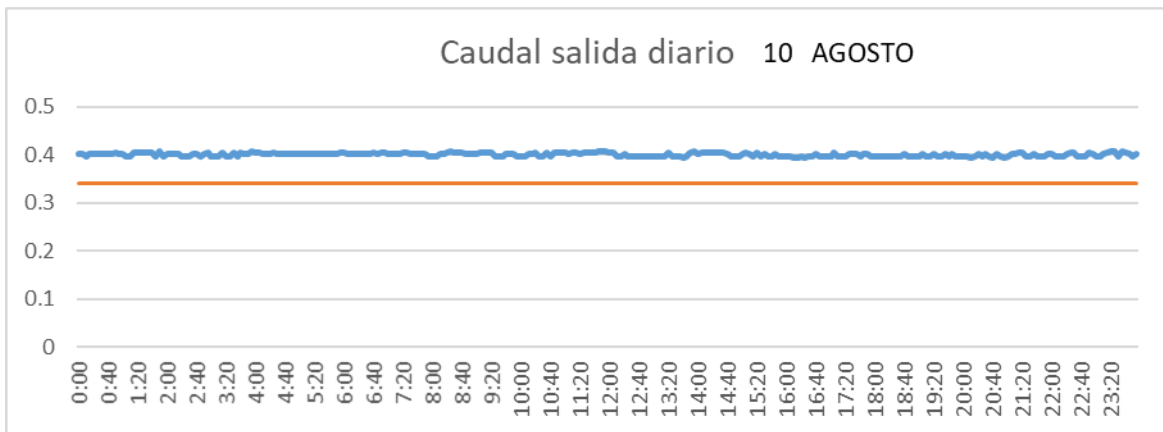
CUENCA



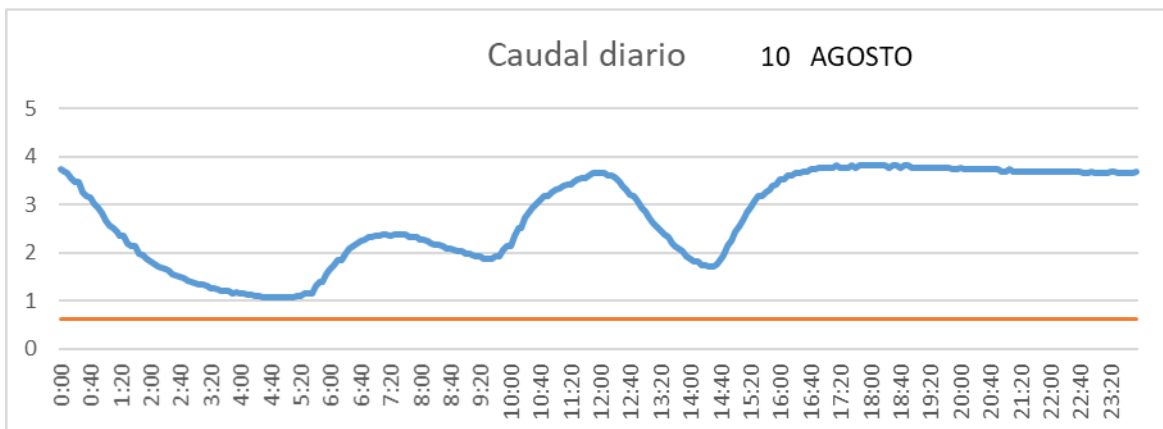
SAN LORENZO PARRILLA



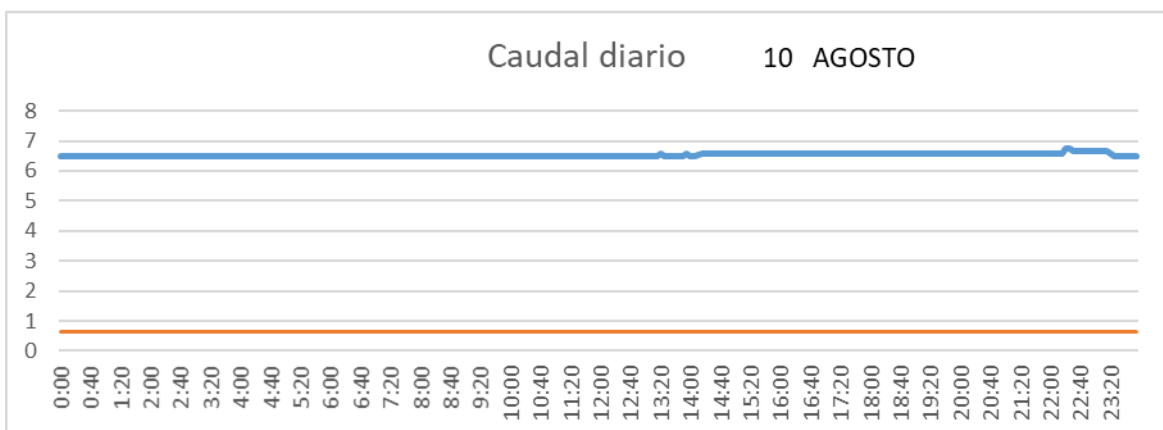
SALIDA TOBA



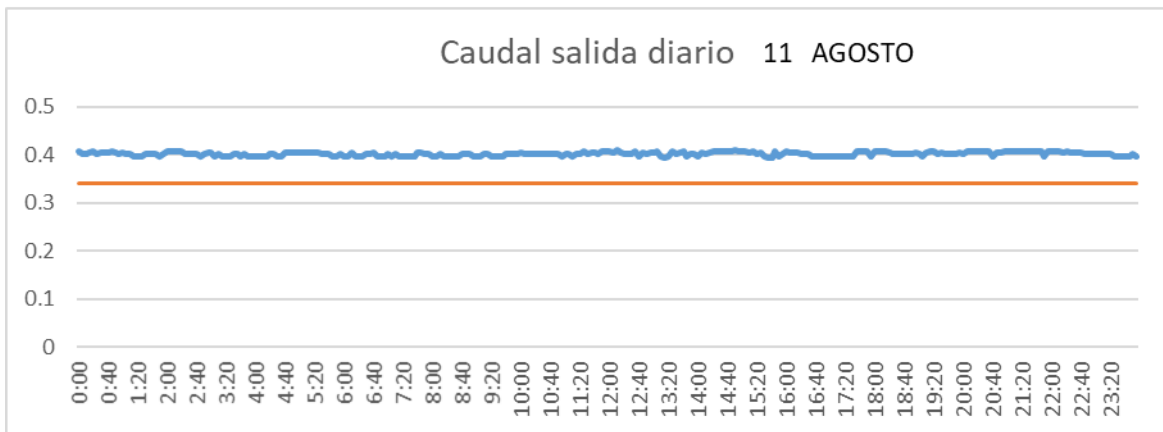
CUENCA



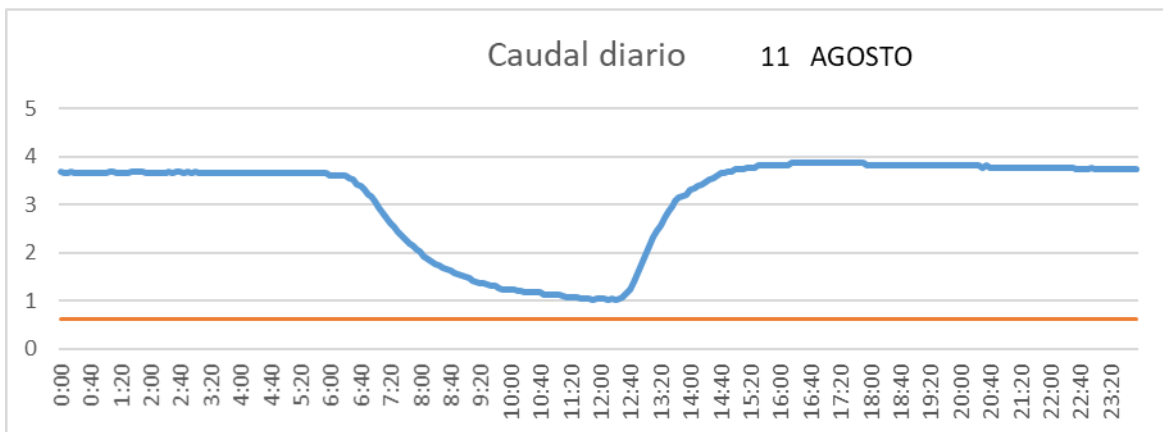
SAN LORENZO PARRILLA



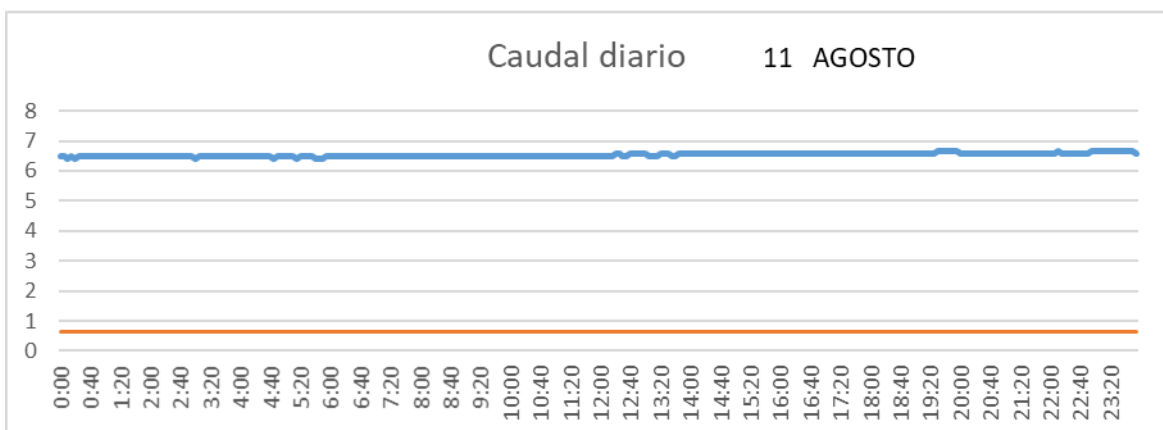
SALIDA TOBA



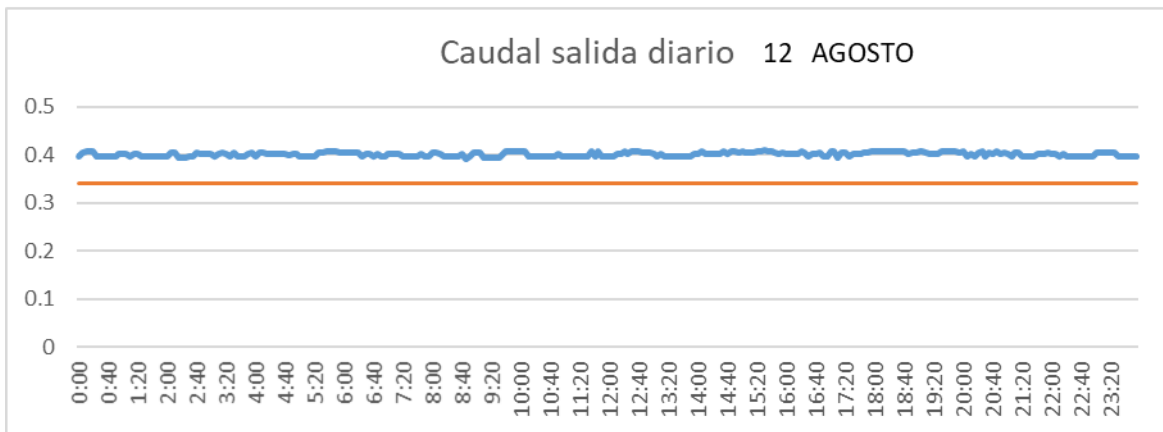
CUENCA



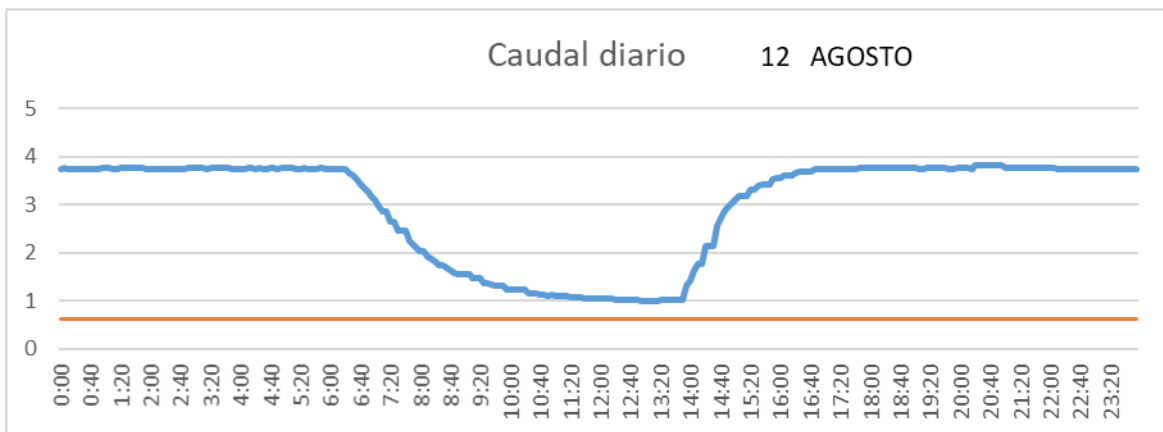
SAN LORENZO PARRILLA



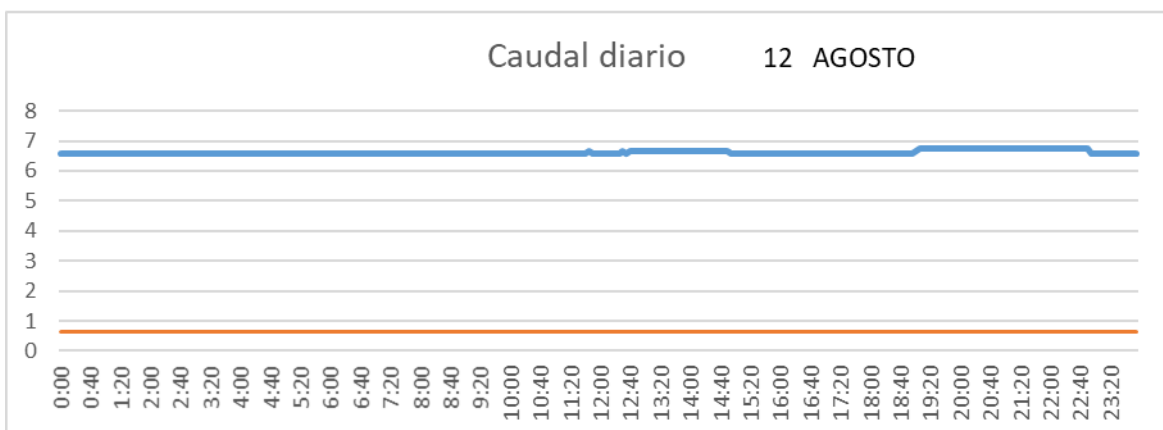
SALIDA TOBA



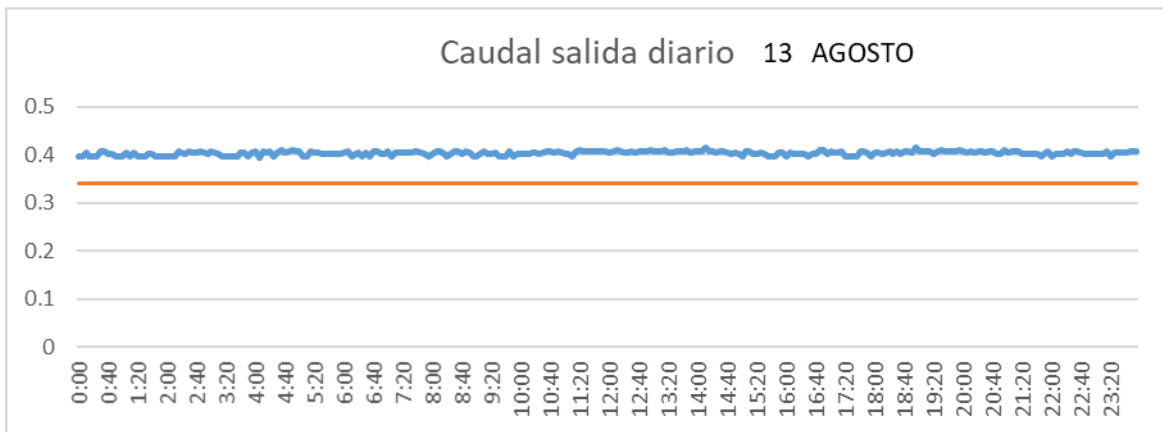
CUENCA



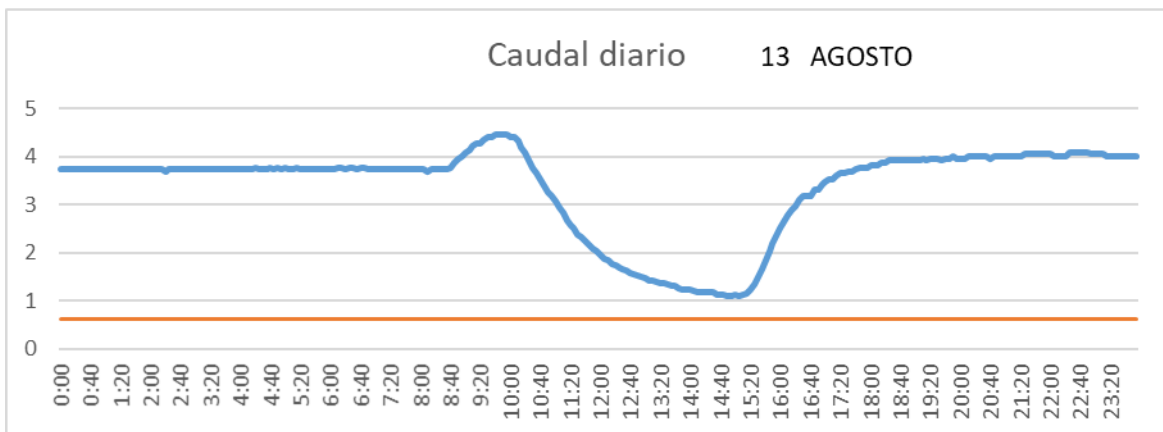
SAN LORENZO PARRILLA



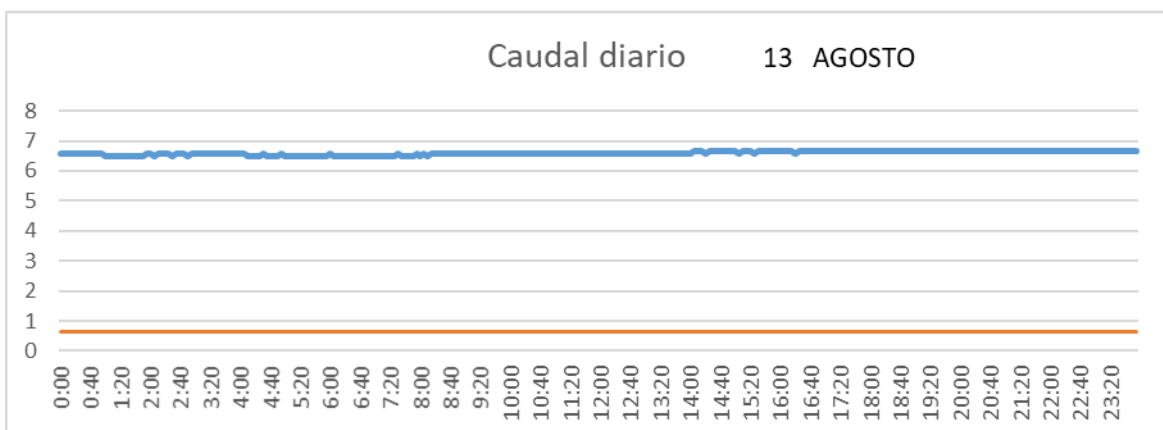
SALIDA TOBA



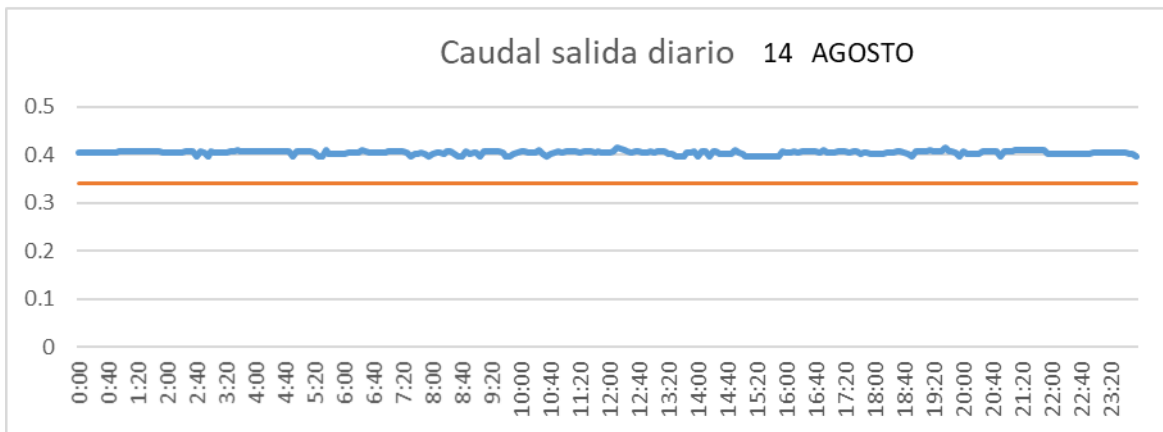
CUENCA



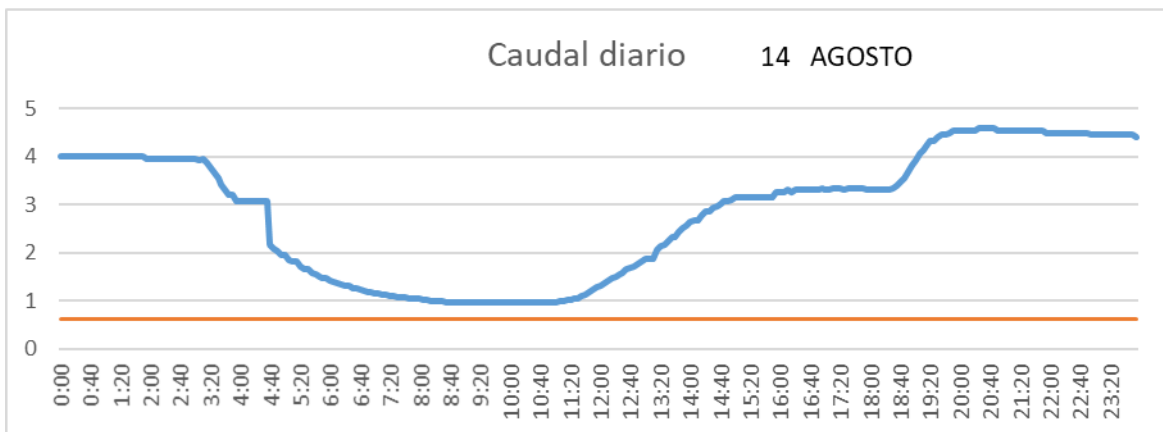
SAN LORENZO PARRILLA



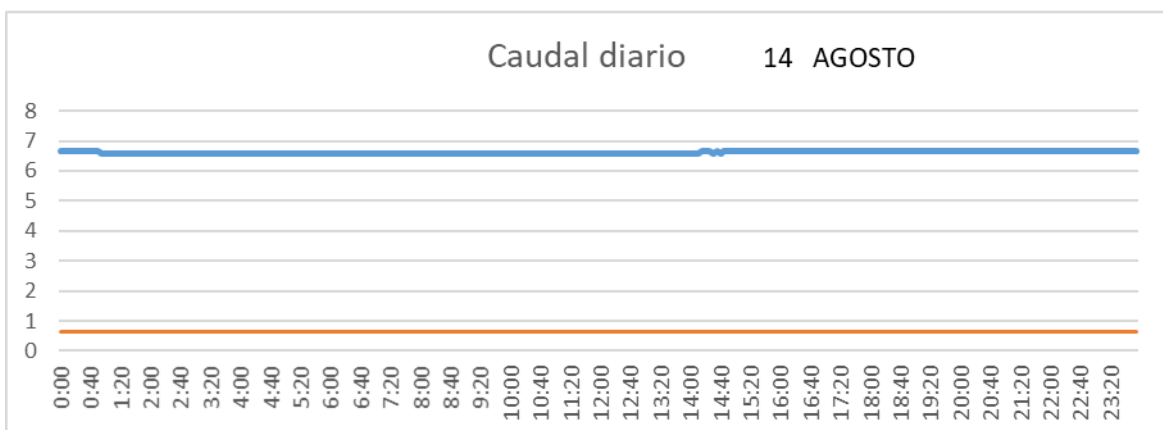
SALIDA TOBA



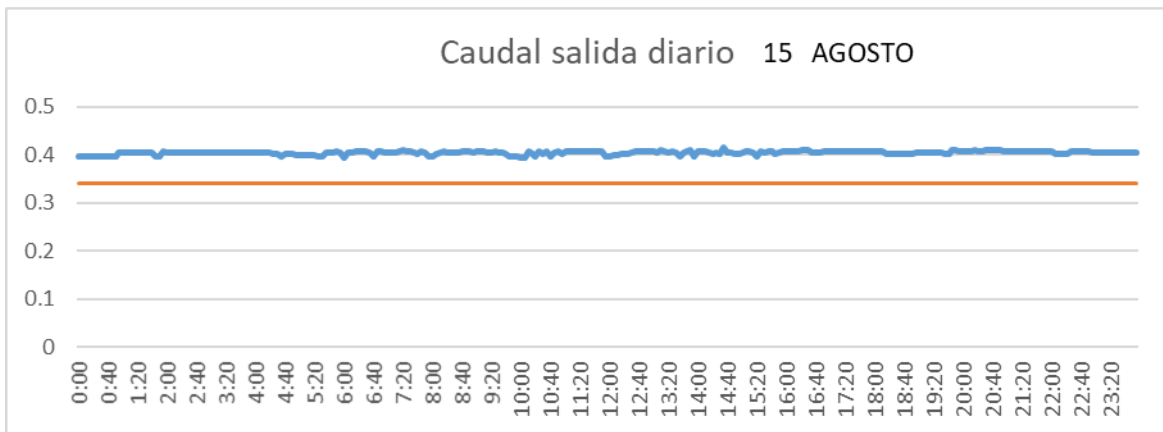
CUENCA



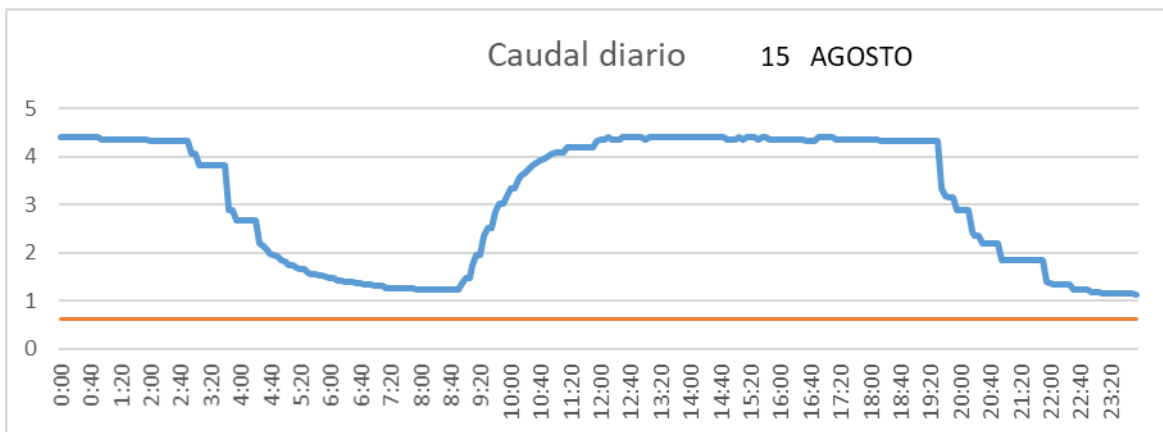
SAN LORENZO PARRILLA



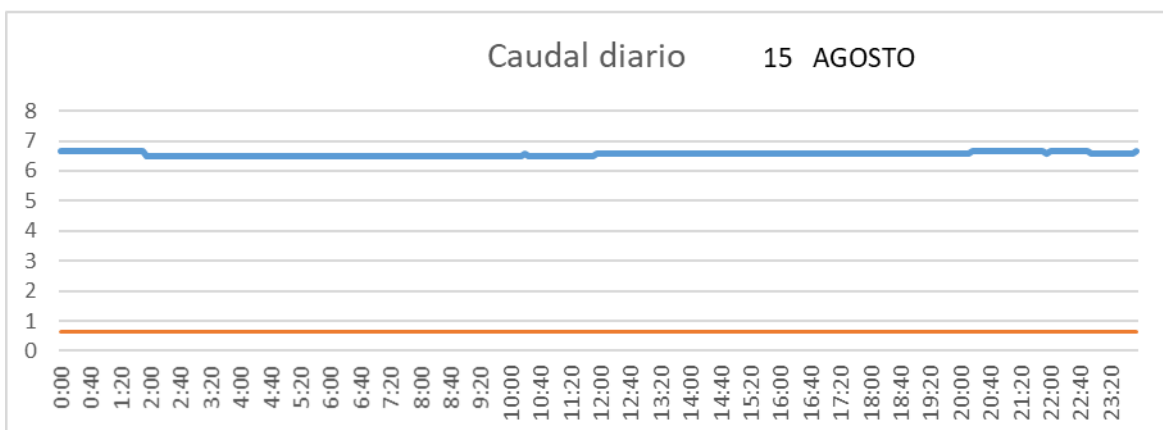
SALIDA TOBA



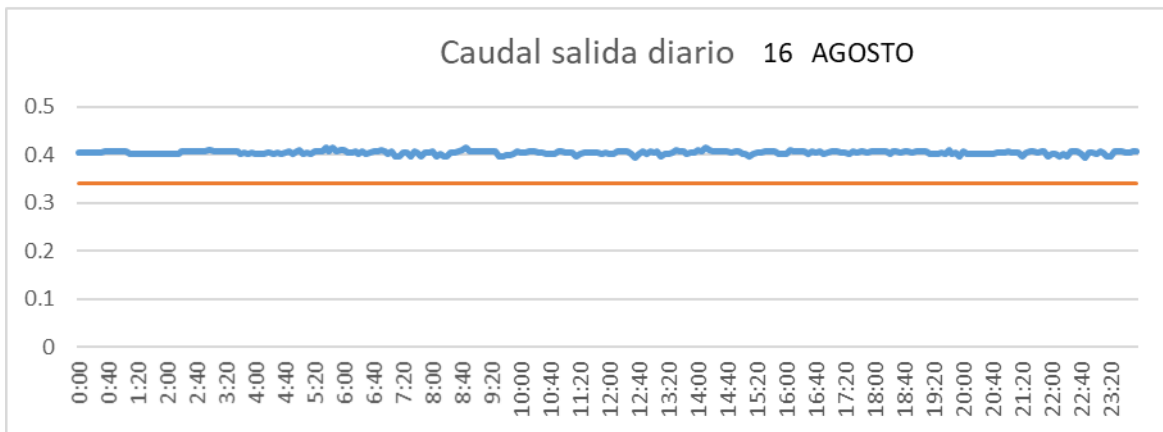
CUENCA



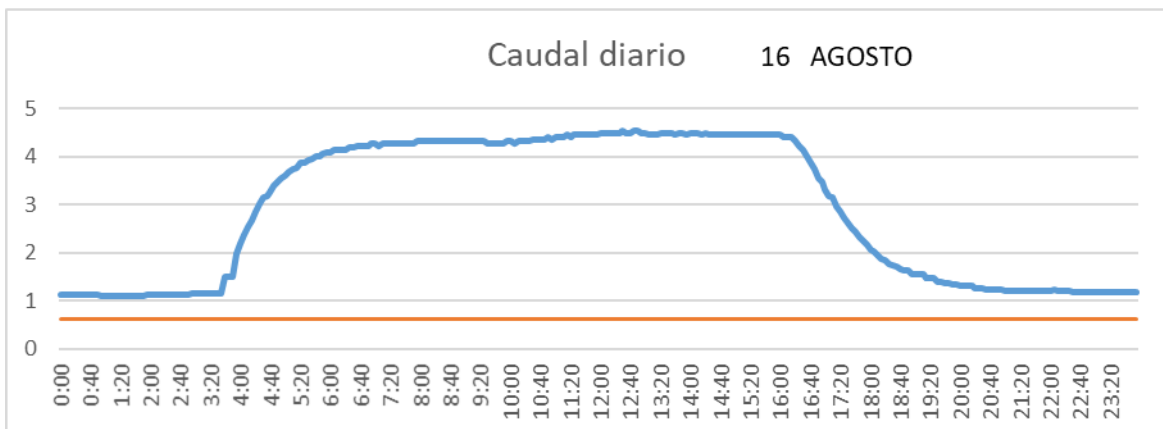
SAN LORENZO PARRILLA



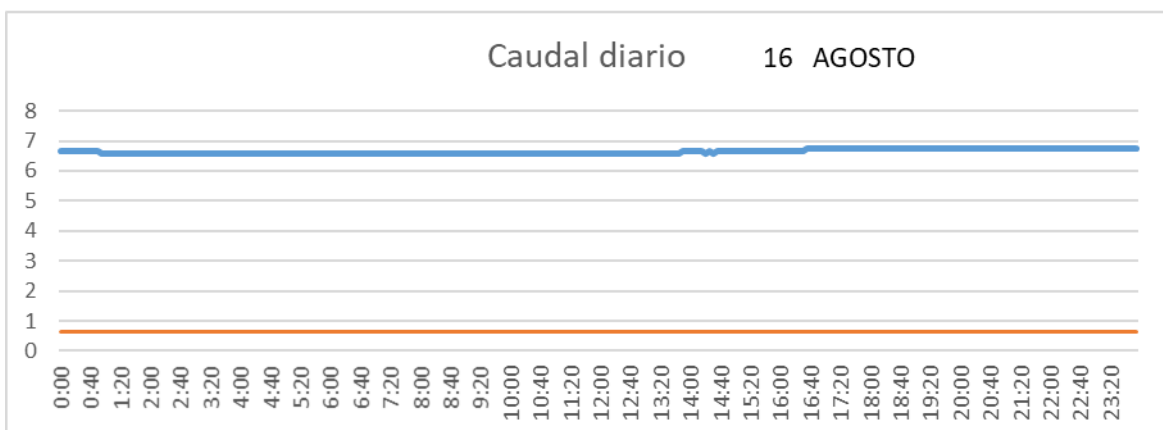
SALIDA TOBA



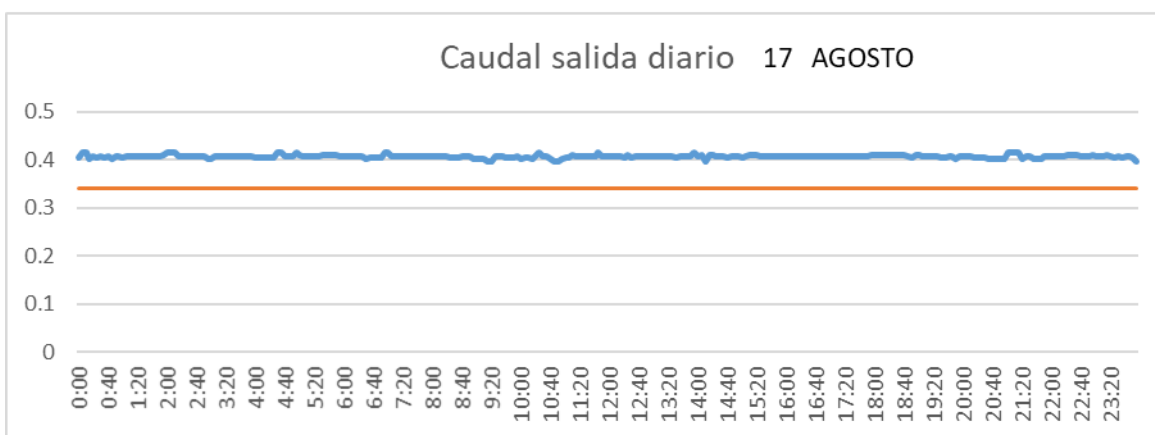
CUENCA



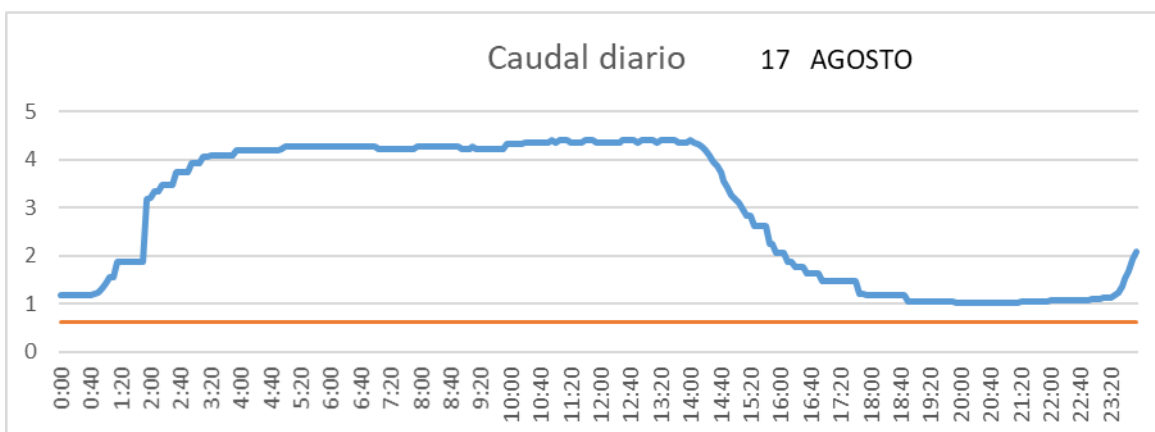
SAN LORENZO PARRILLA



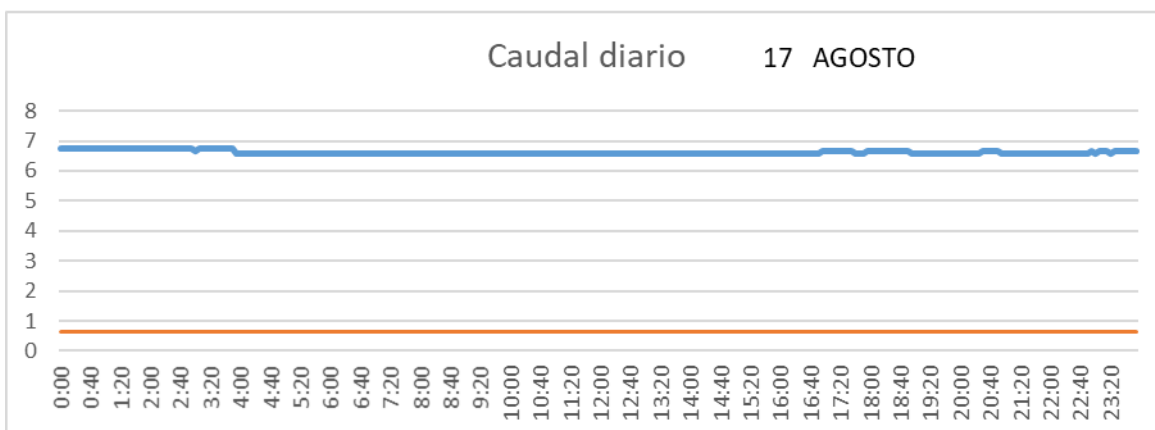
SALIDA TOBA



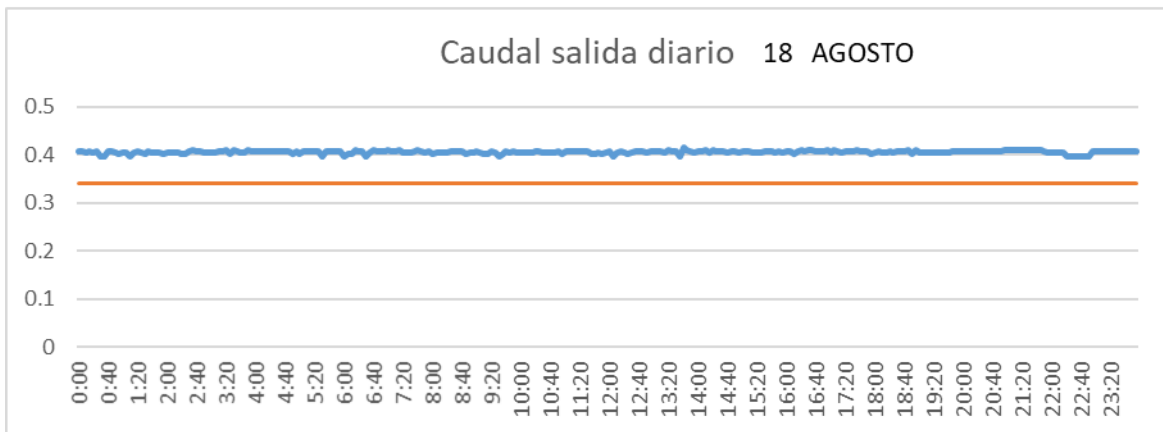
CUENCA



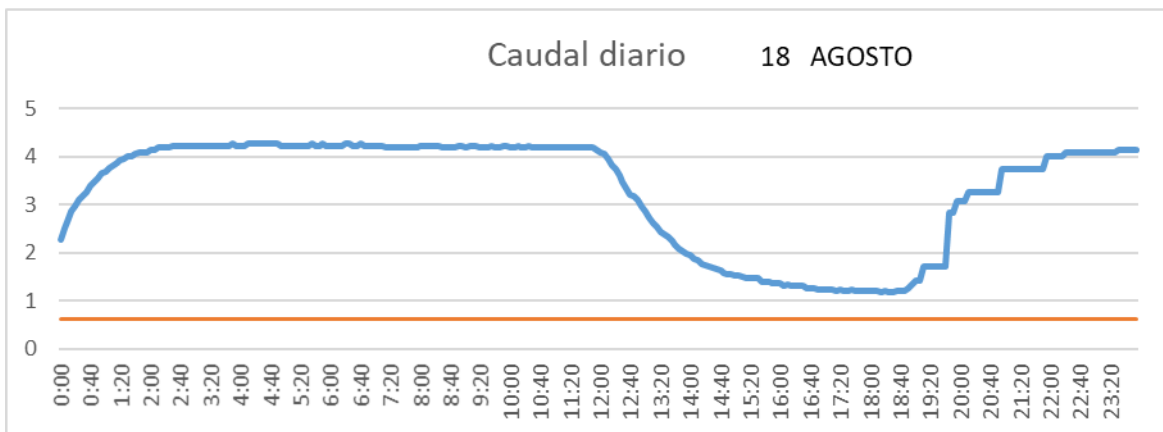
SAN LORENZO PARRILLA



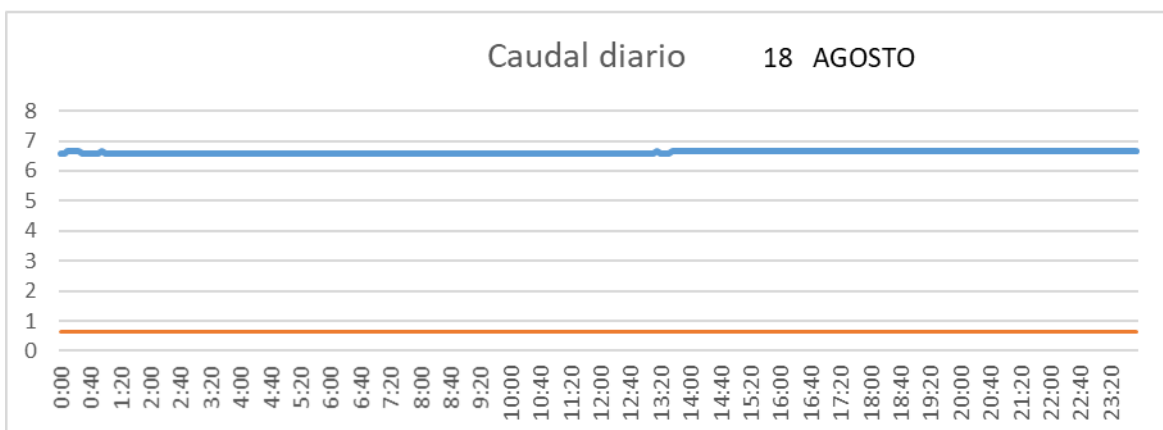
SALIDA TOBA



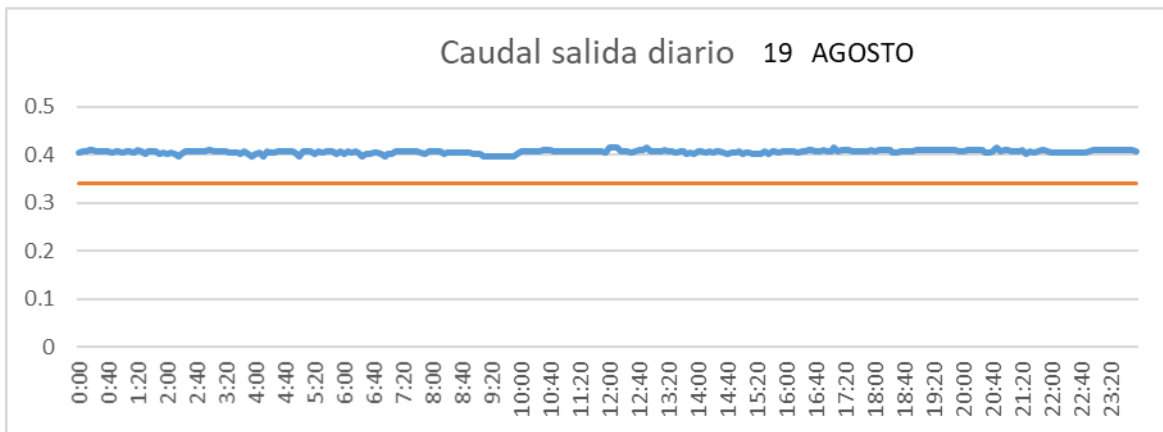
CUENCA



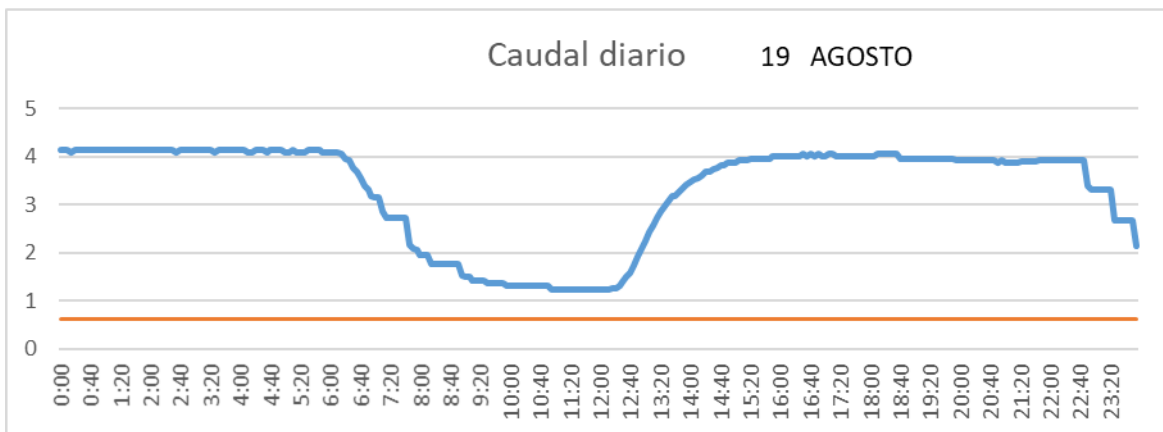
SAN LORENZO PARRILLA



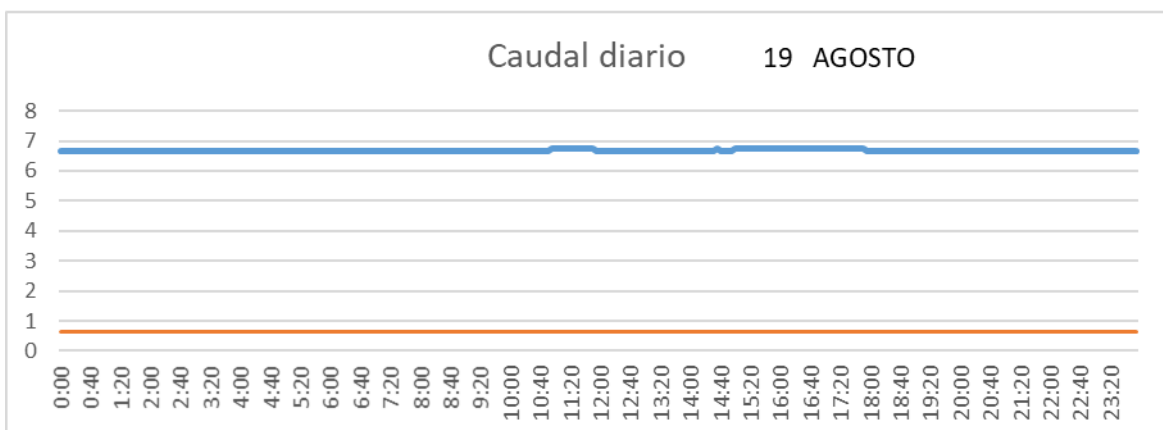
SALIDA TOBA



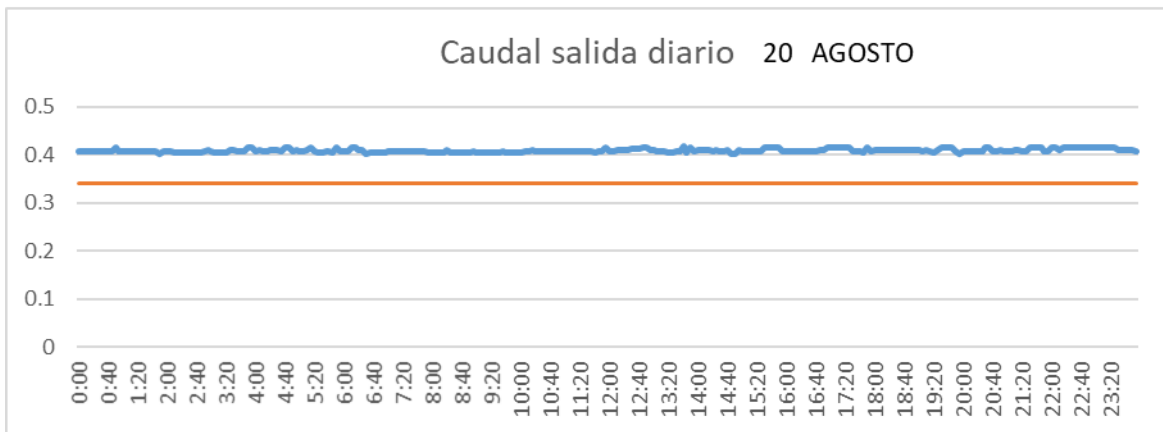
CUENCA



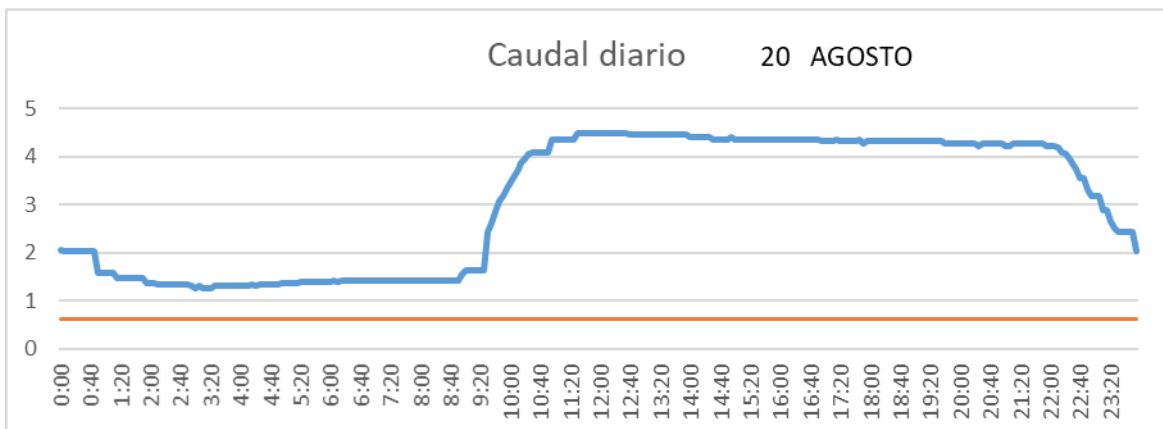
SAN LORENZO PARRILLA



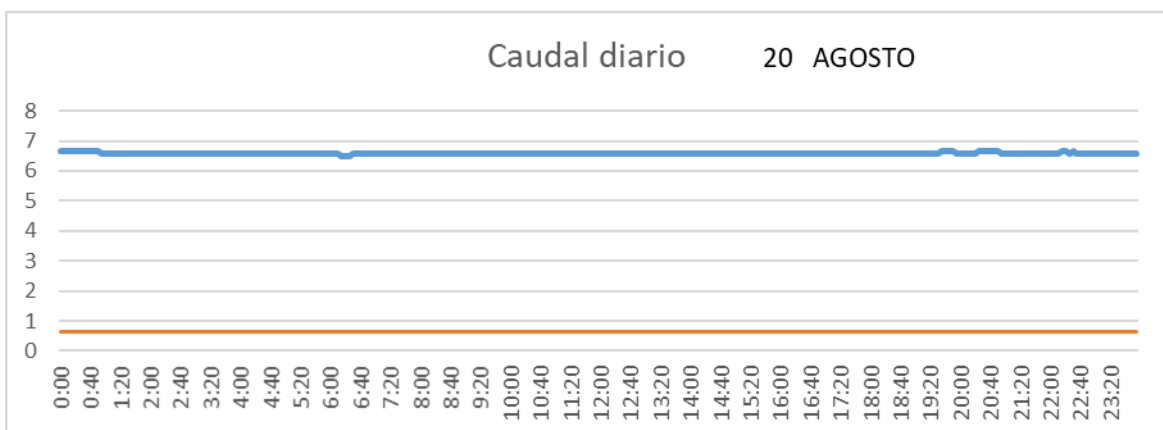
SALIDA TOBA



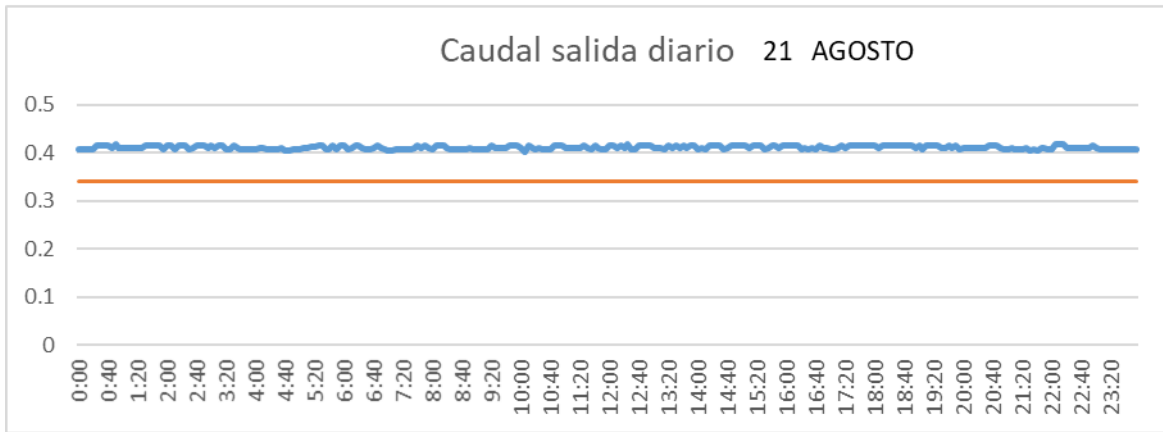
CUENCA



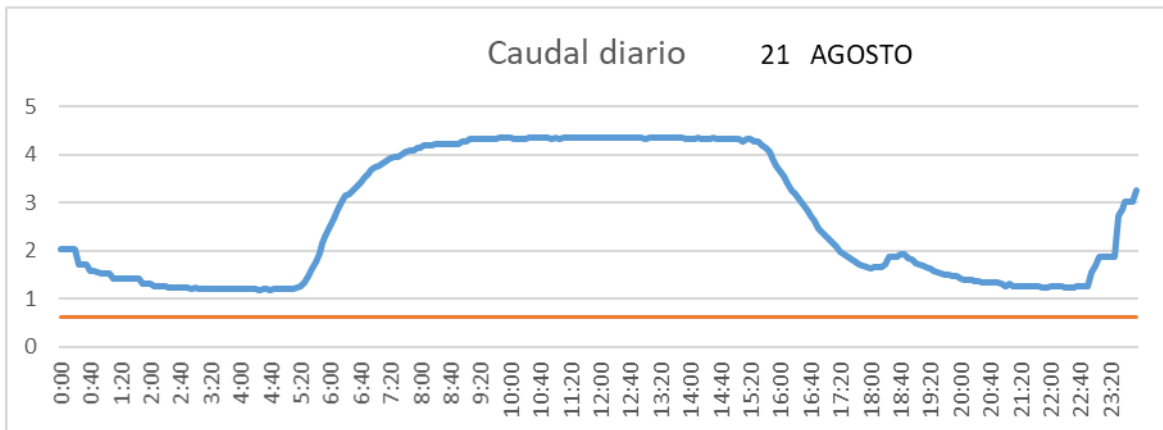
SAN LORENZO PARRILLA



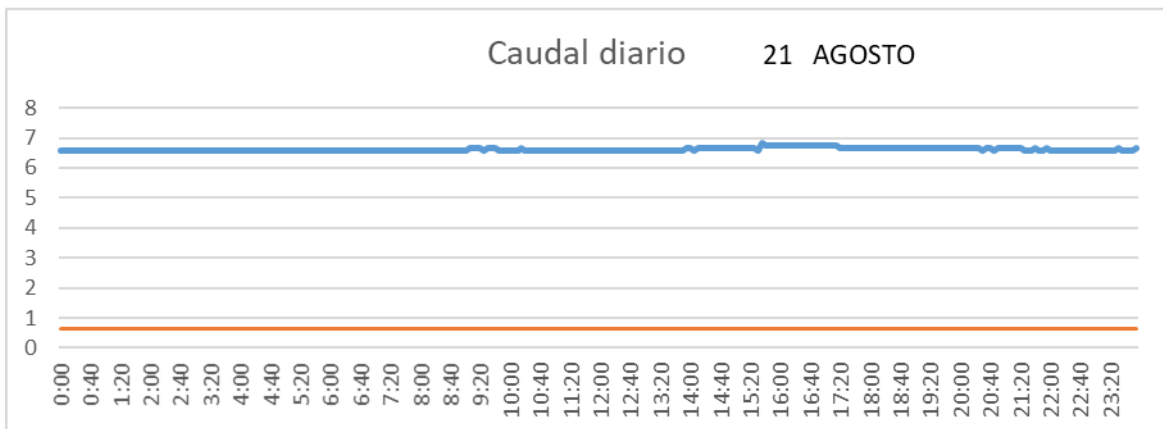
SALIDA TOBA



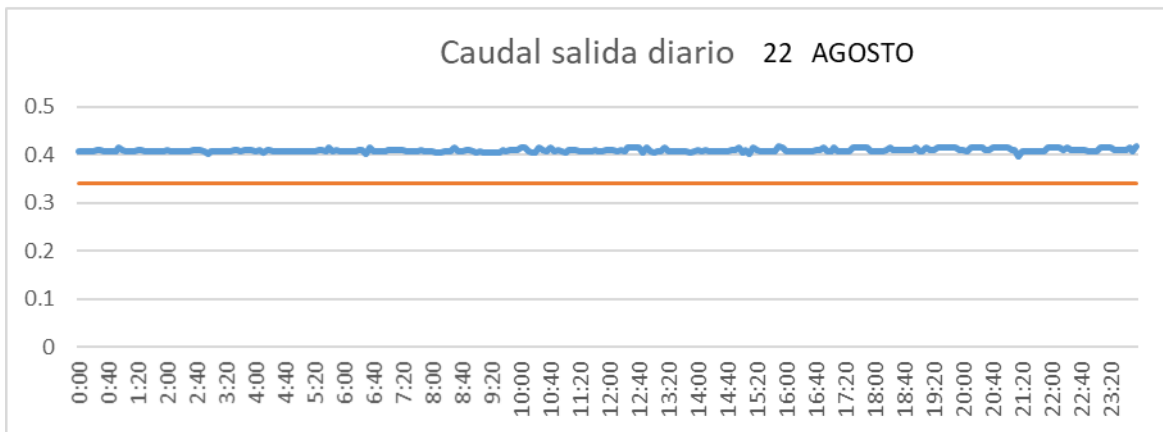
CUENCA



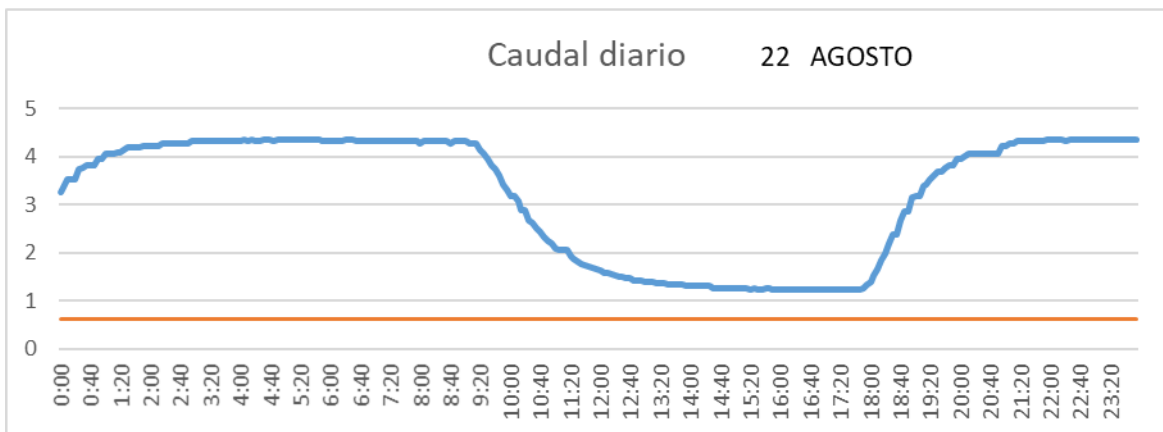
SAN LORENZO PARRILLA



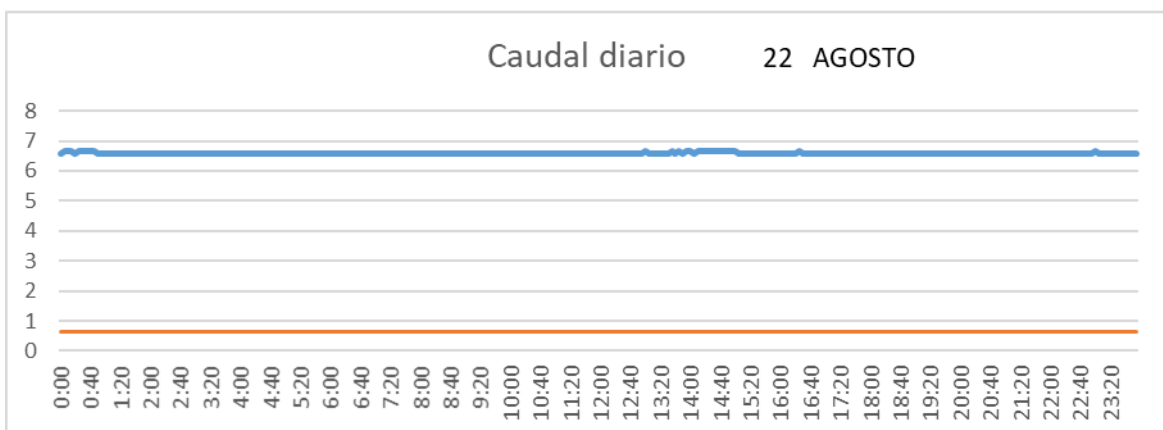
SALIDA TOBA



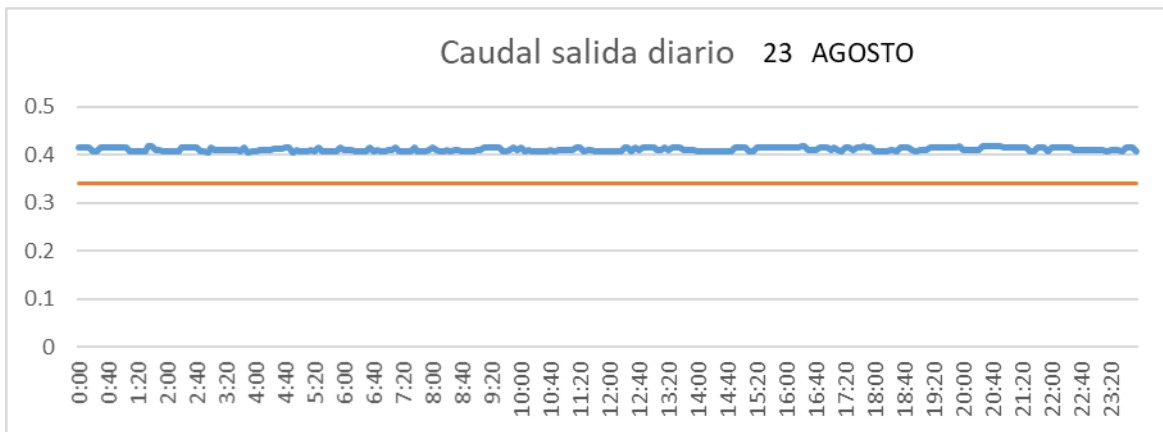
CUENCA



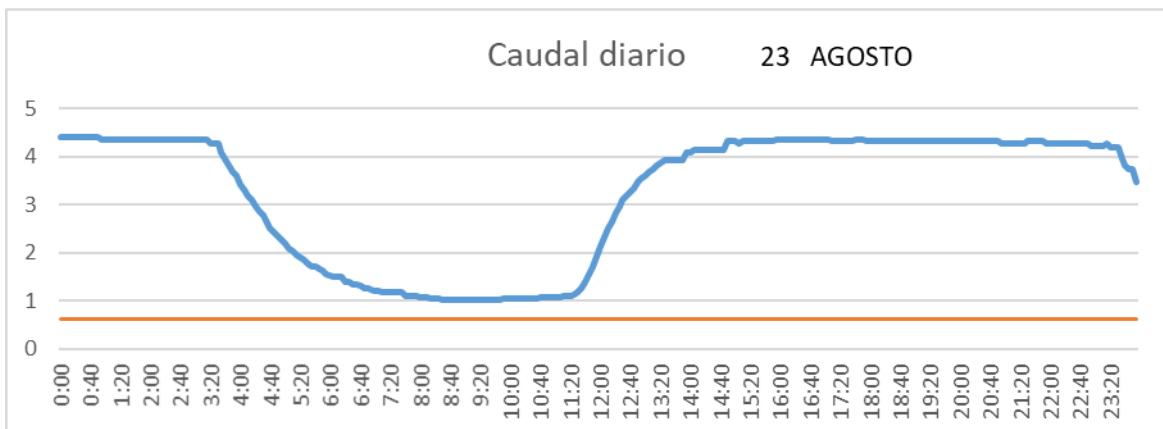
SAN LORENZO PARRILLA



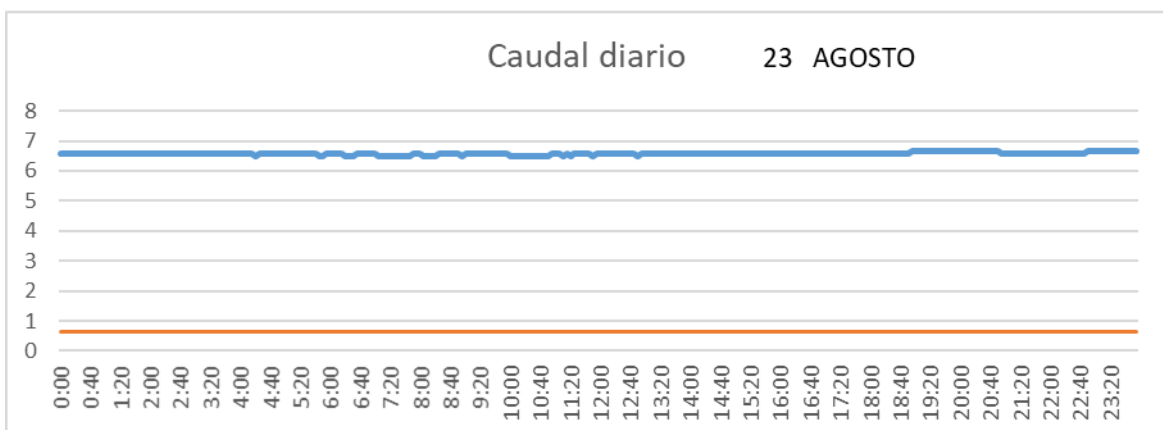
SALIDA TOBA



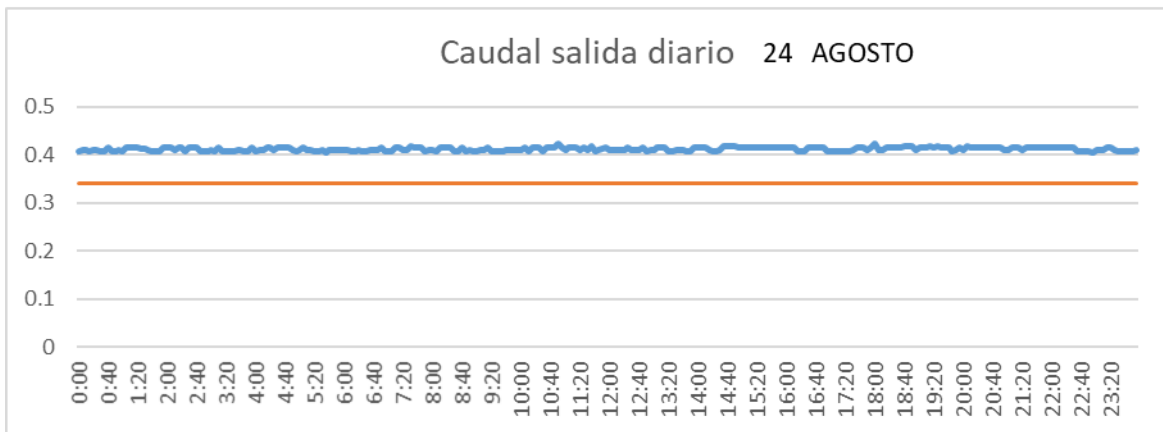
CUENCA



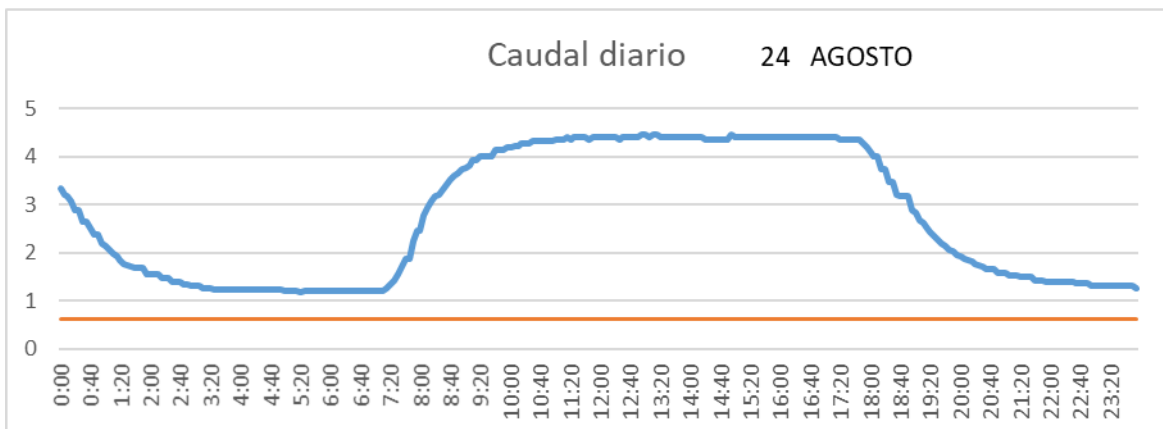
SAN LORENZO PARRILLA



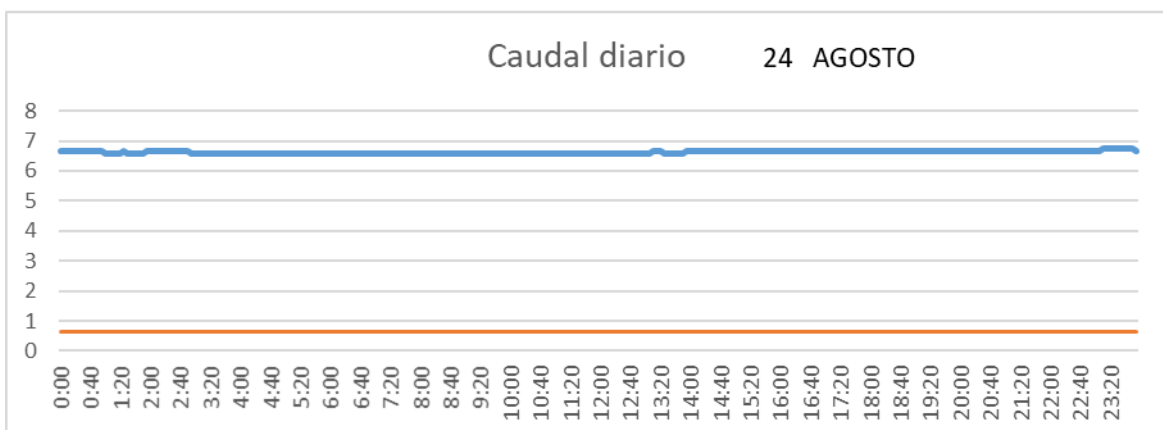
SALIDA TOBA



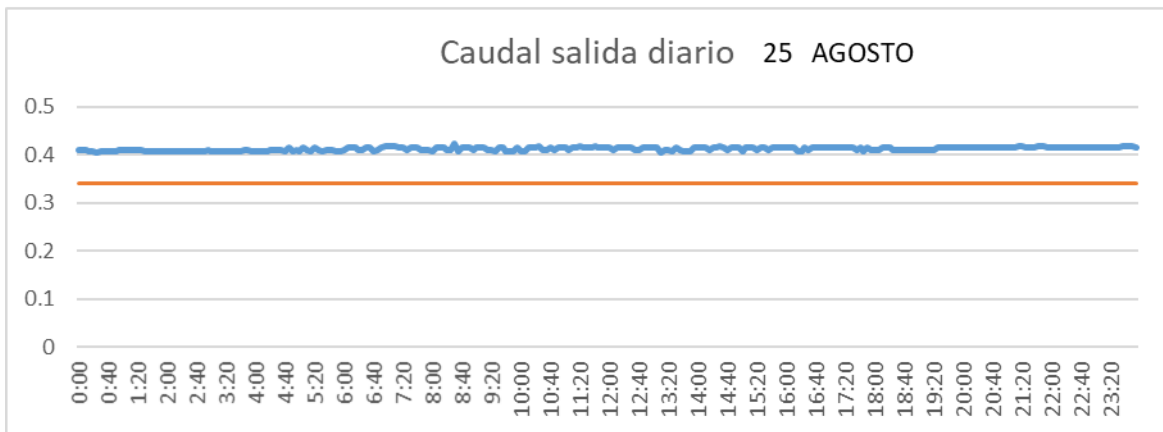
CUENCA



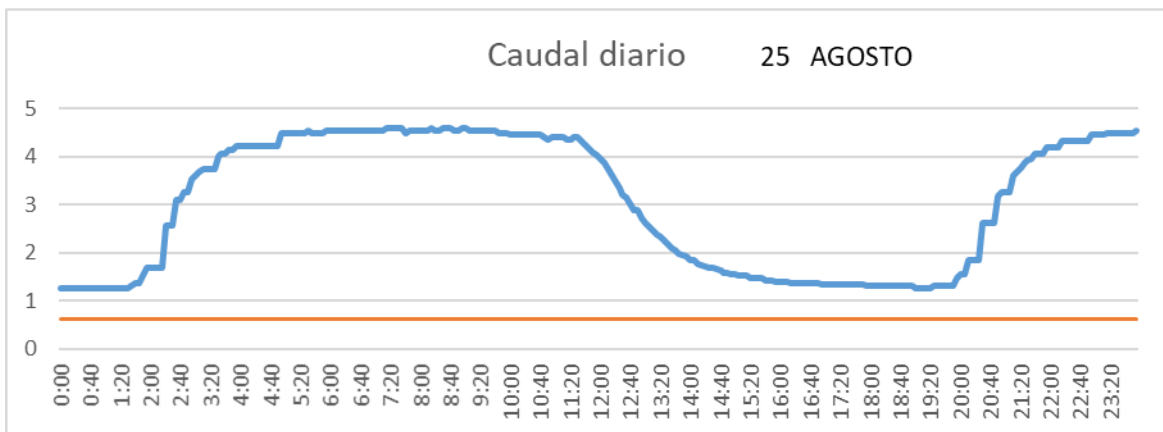
SAN LORENZO PARRILLA



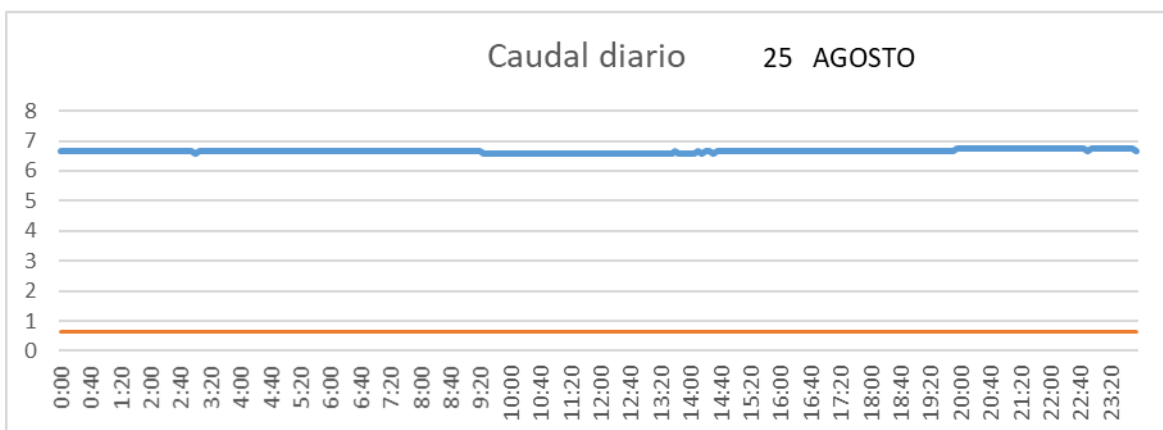
SALIDA TOBA



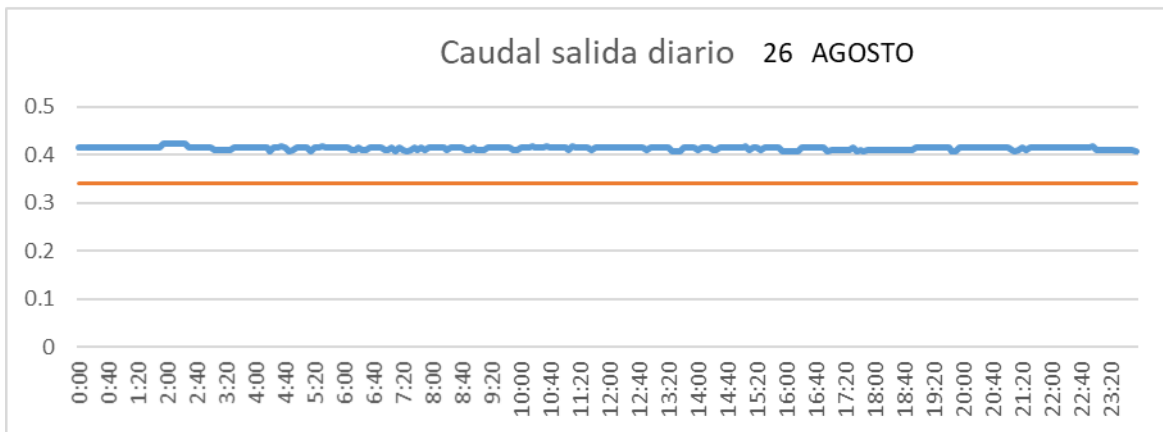
CUENCA



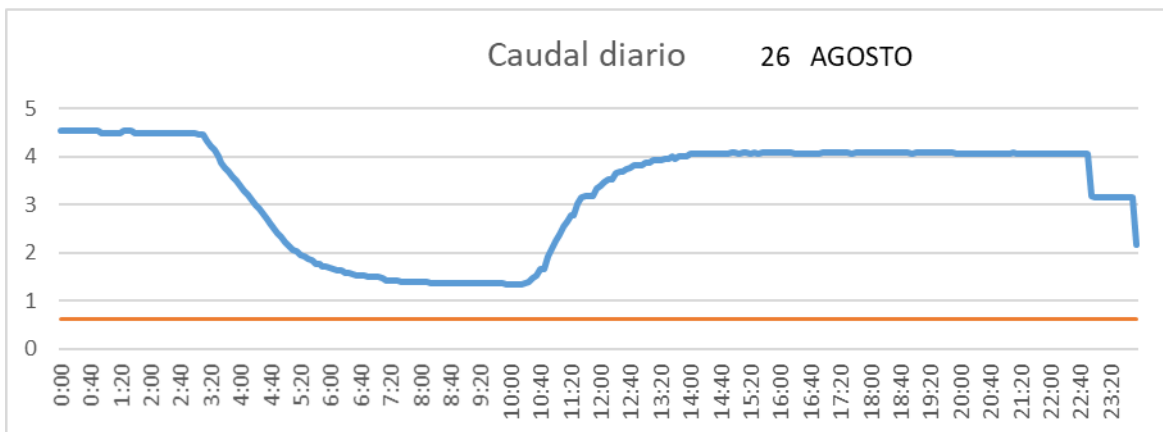
SAN LORENZO PARRILLA



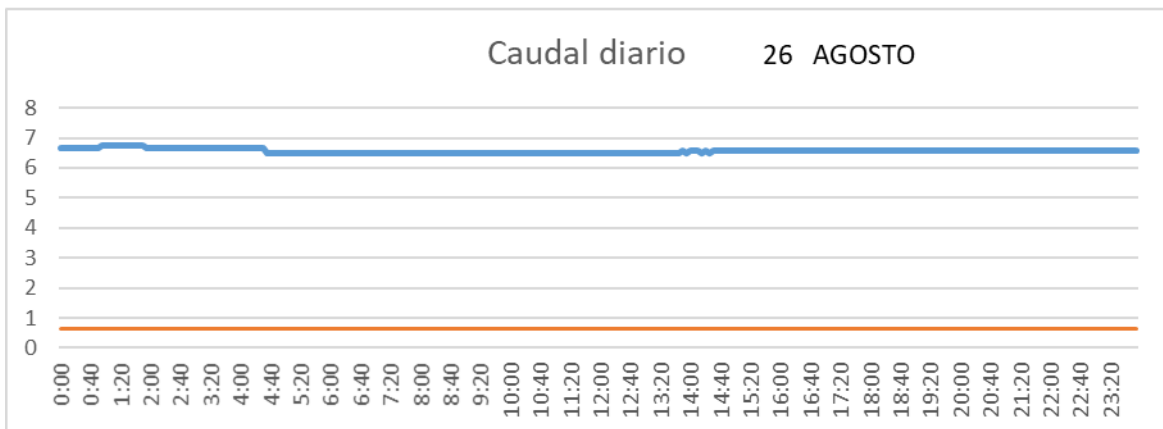
SALIDA TOBA



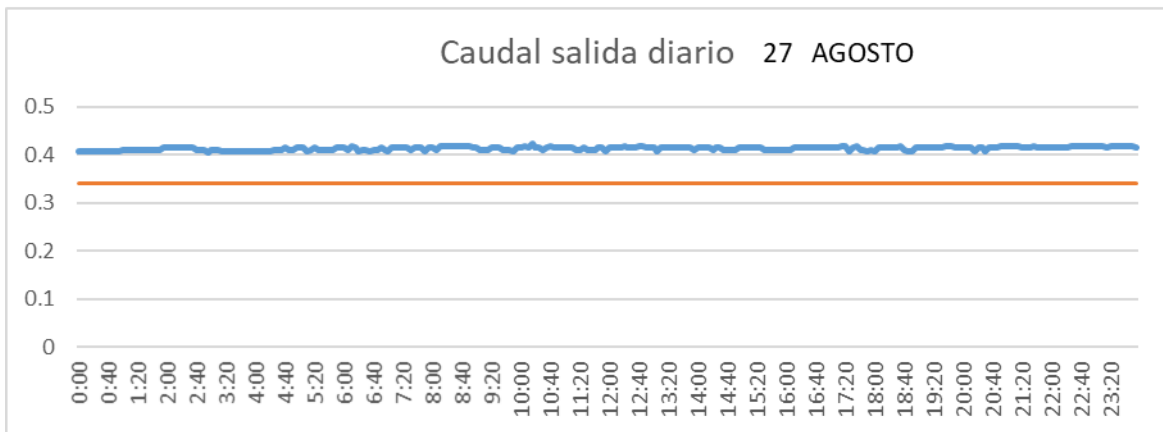
CUENCA



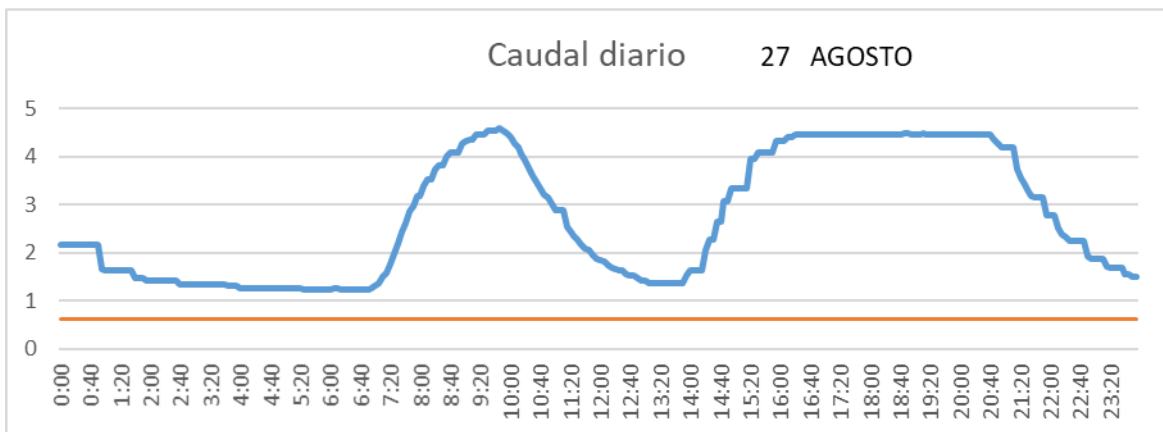
SAN LORENZO PARRILLA



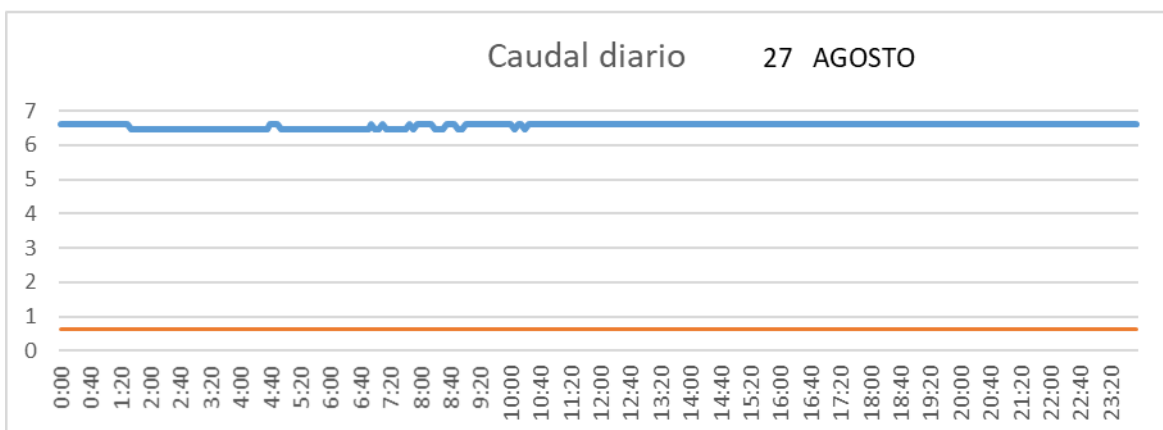
SALIDA TOBA



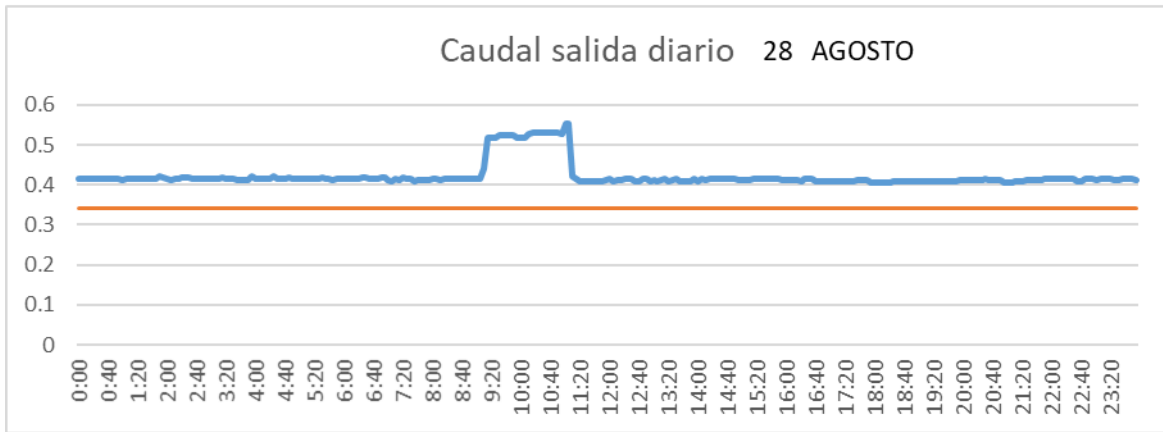
CUENCA



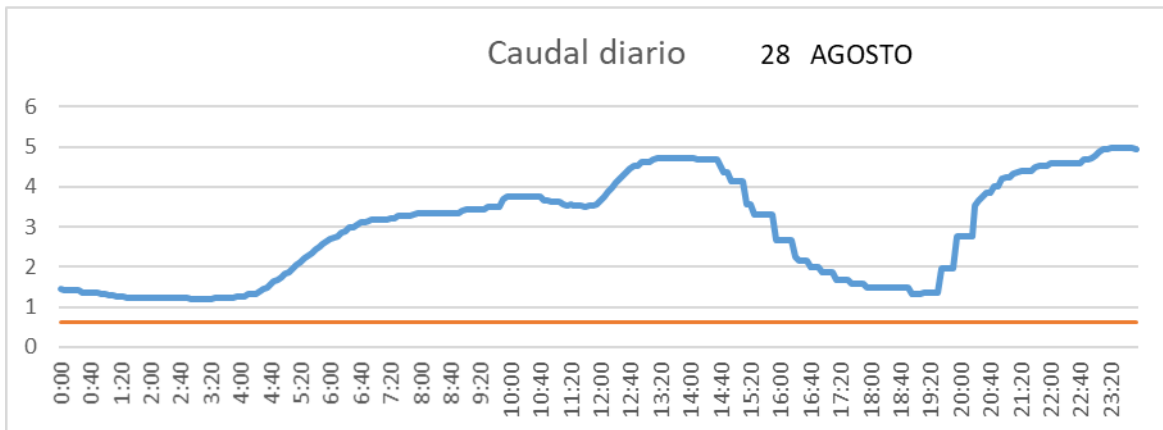
SAN LORENZO PARRILLA



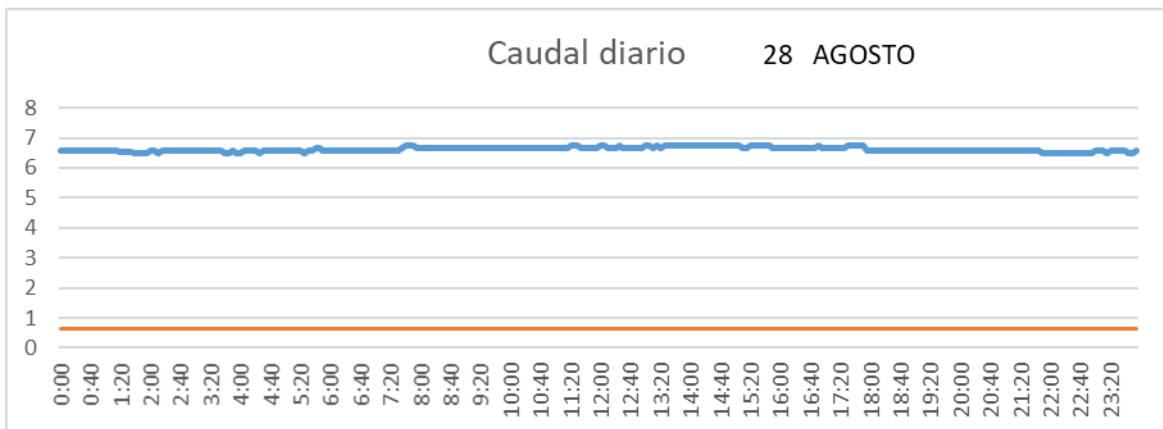
SALIDA TOBA



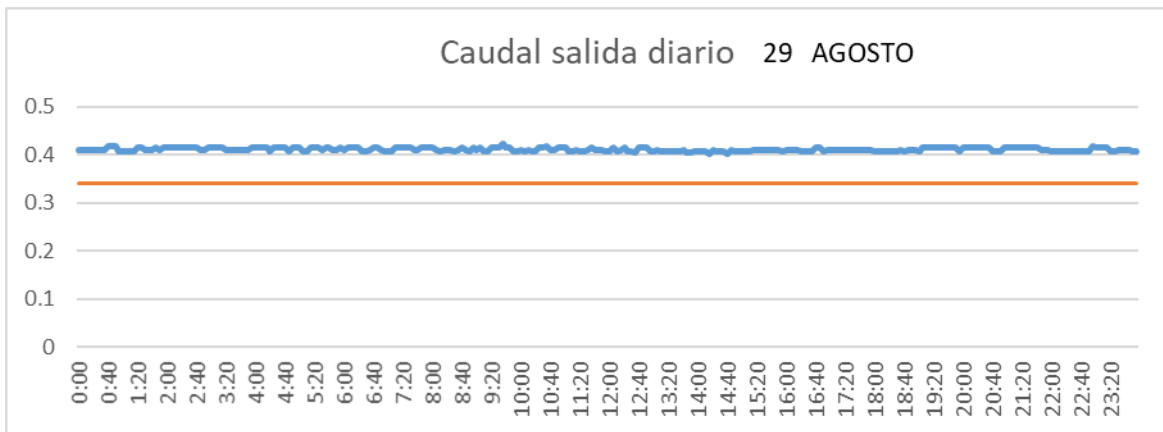
CUENCA



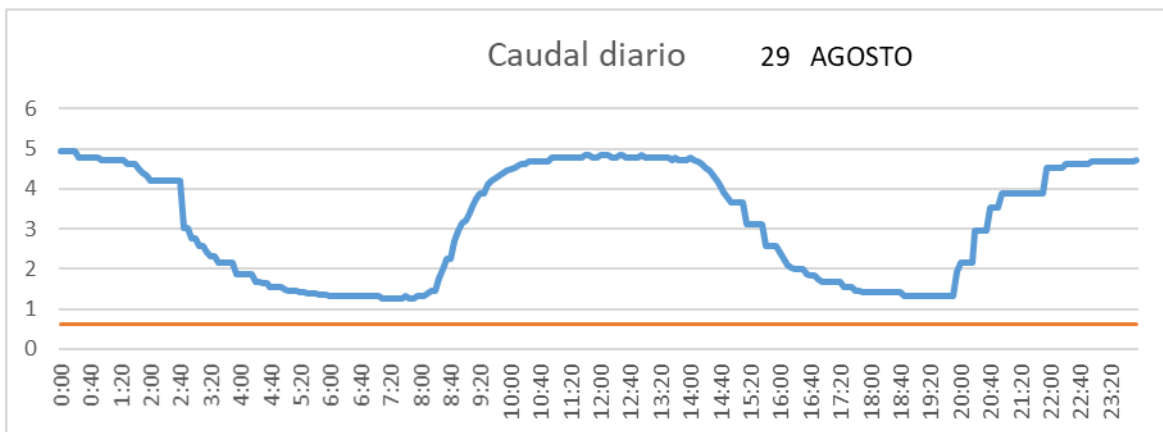
SAN LORENZO PARRILLA



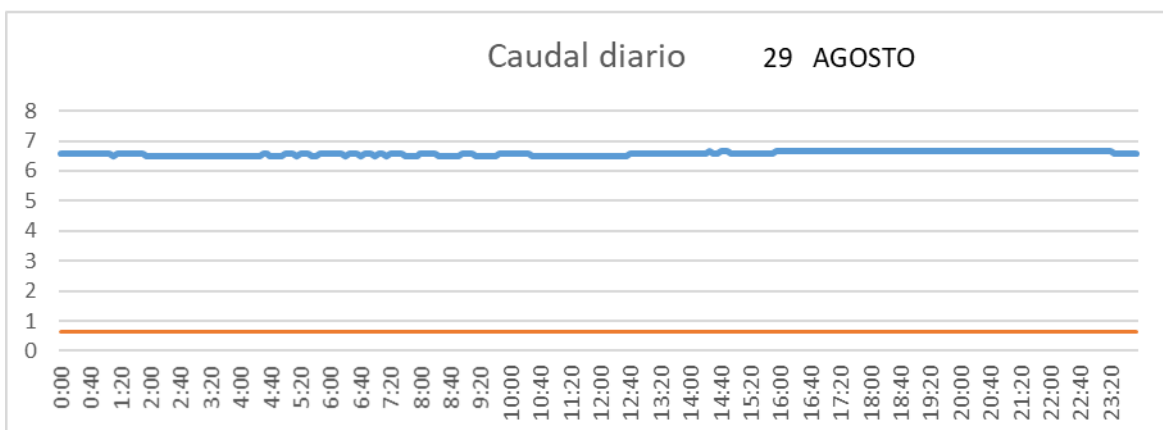
SALIDA TOBA



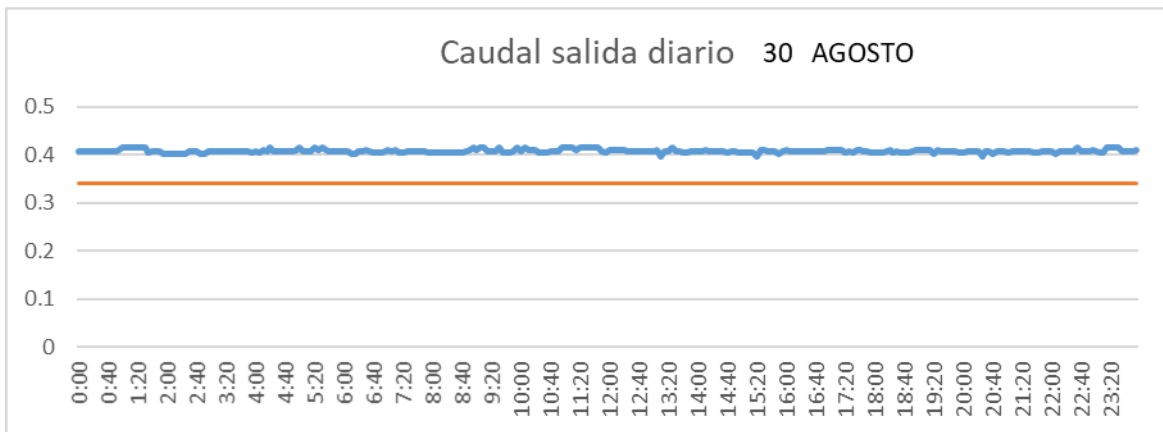
CUENCA



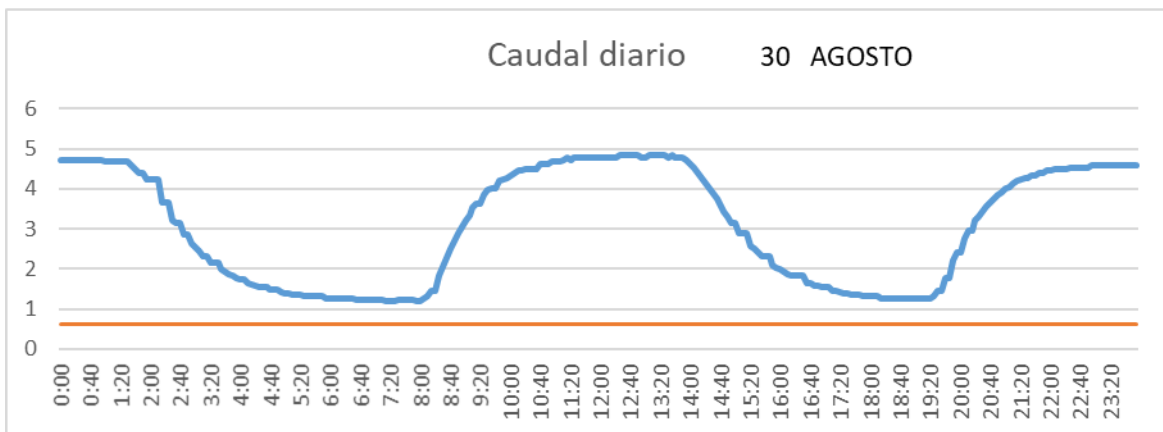
SAN LORENZO PARRILLA



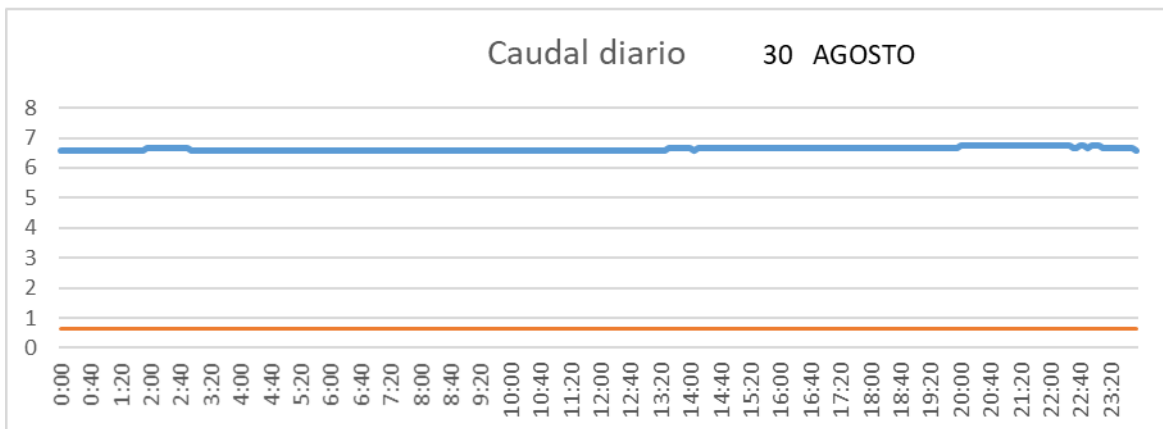
SALIDA TOBA



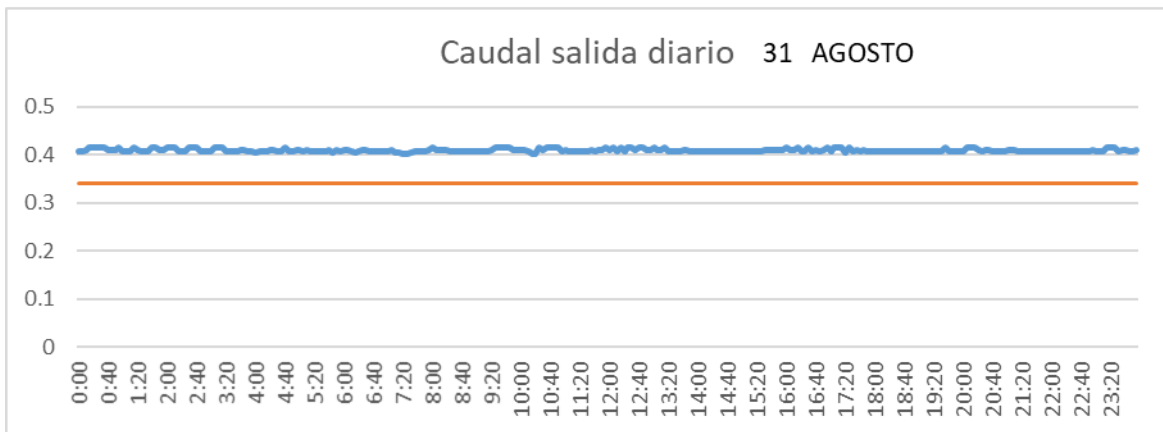
CUENCA



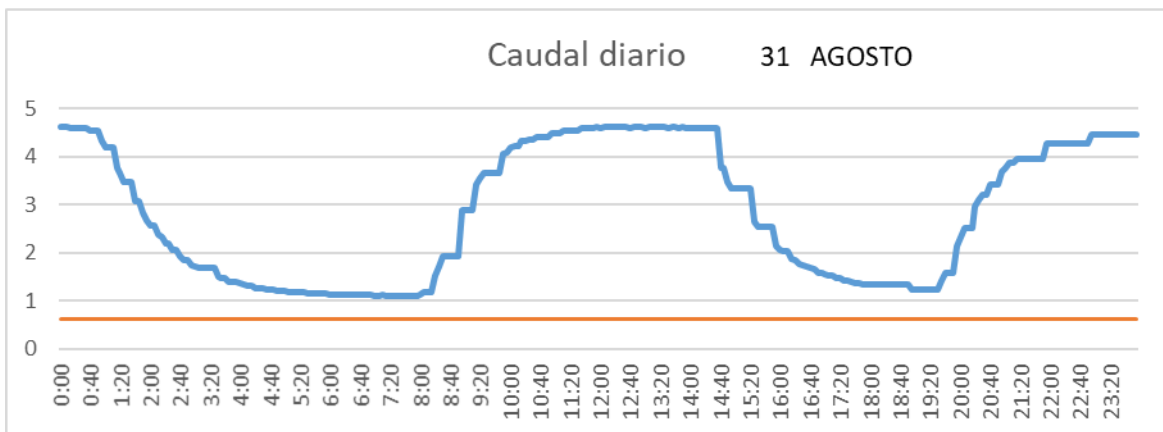
SAN LORENZO PARRILLA



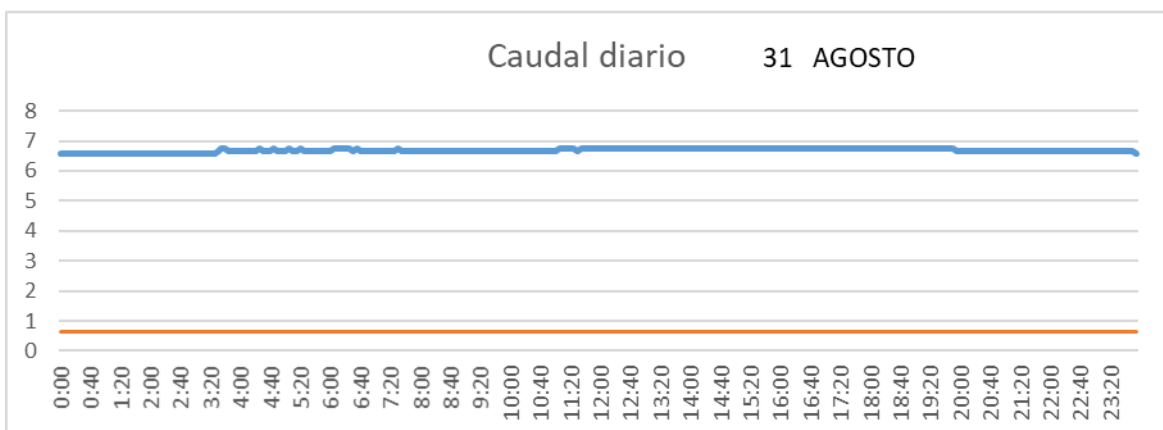
SALIDA TOBA



CUENCA

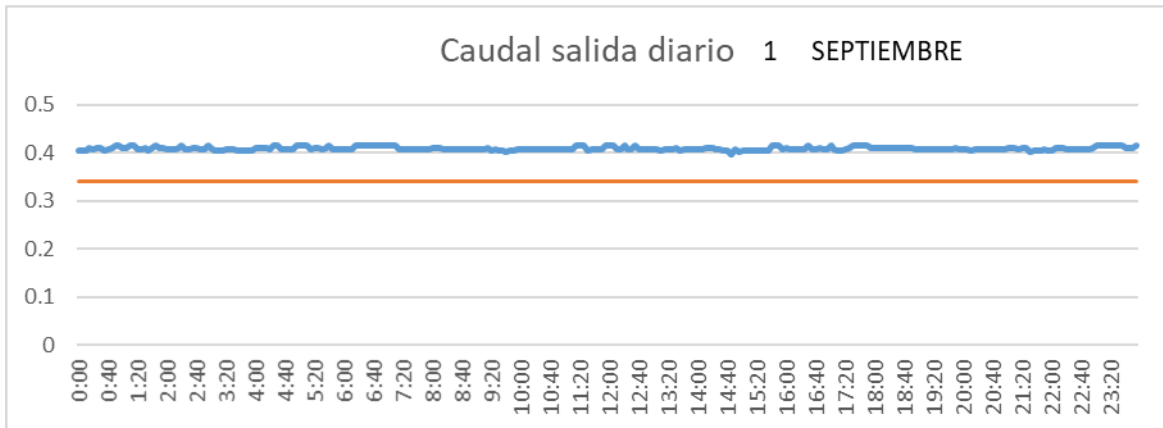


SAN LORENZO PARRILLA

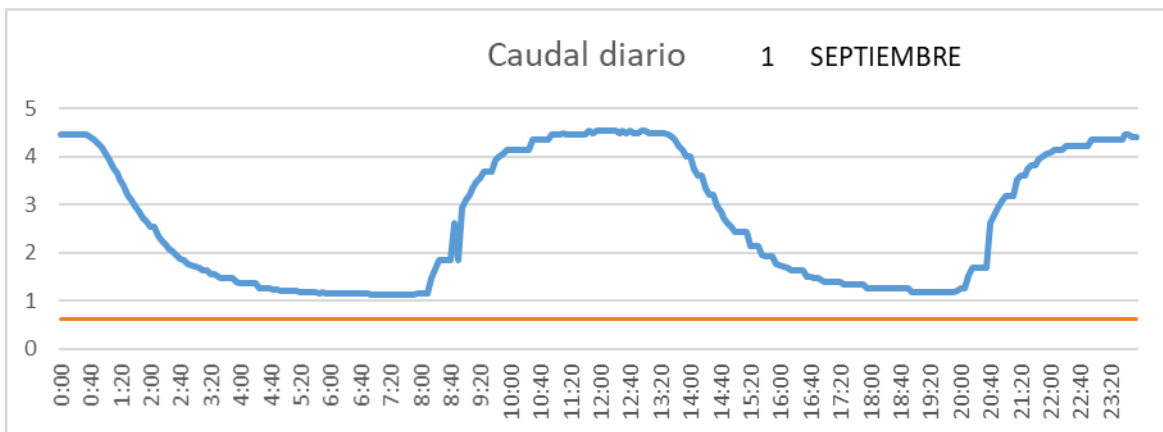


2.3.9 Septiembre

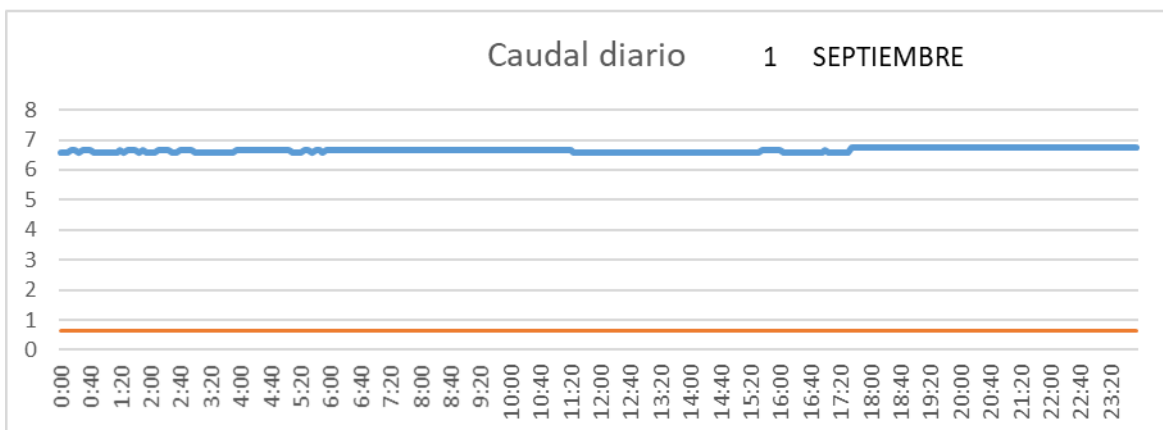
SALIDA TOBA



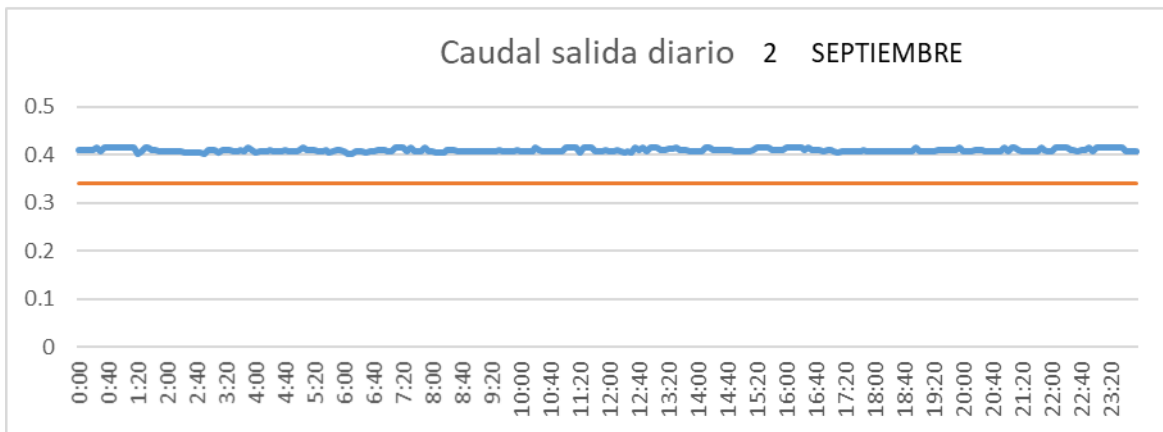
CUENCA



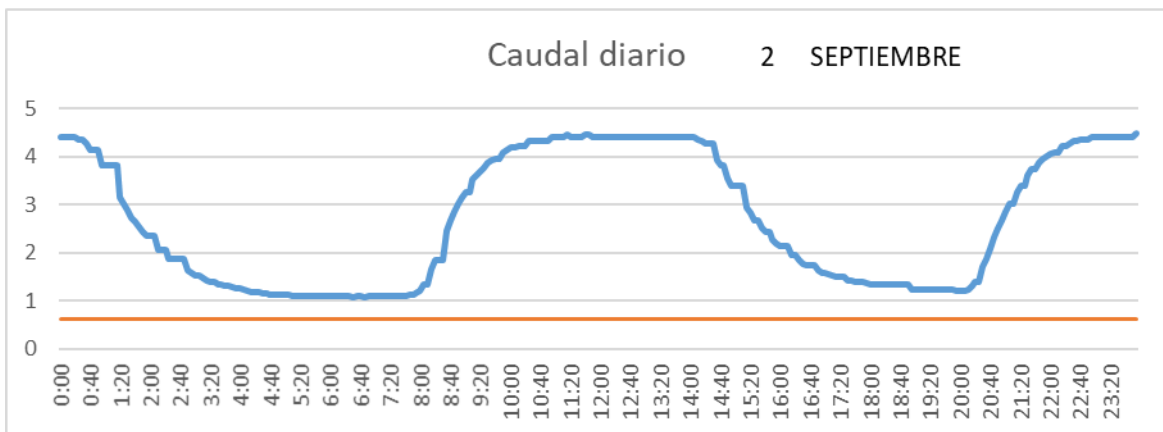
SAN LORENZO PARRILLA



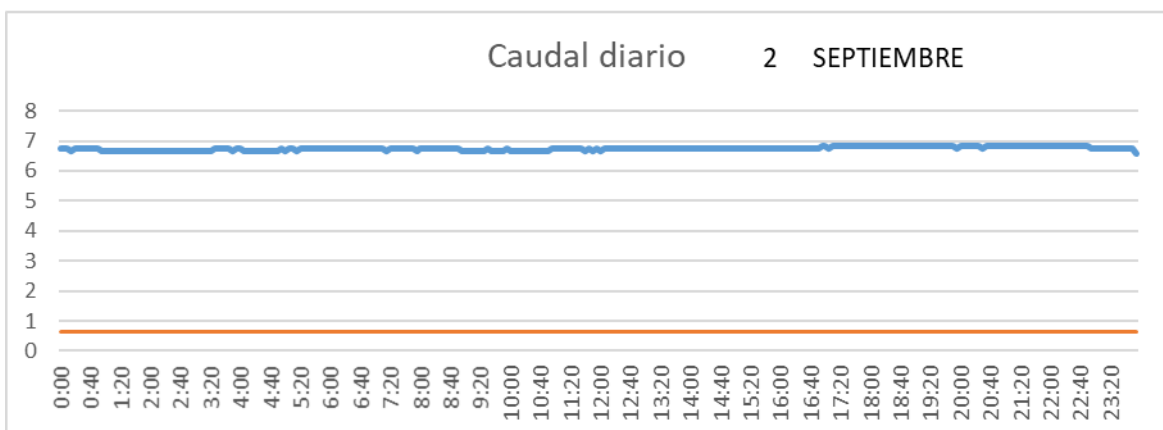
SALIDA TOBA



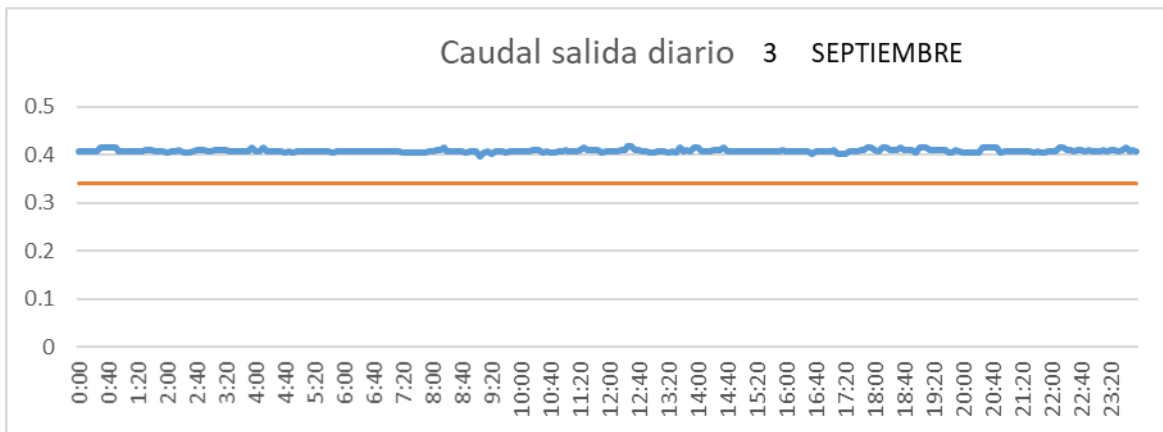
CUENCA



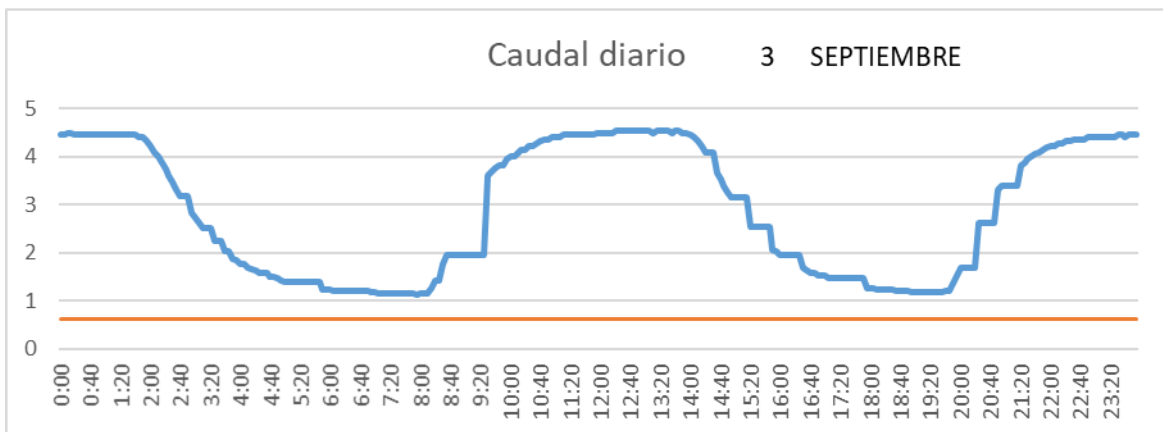
SAN LORENZO PARRILLA



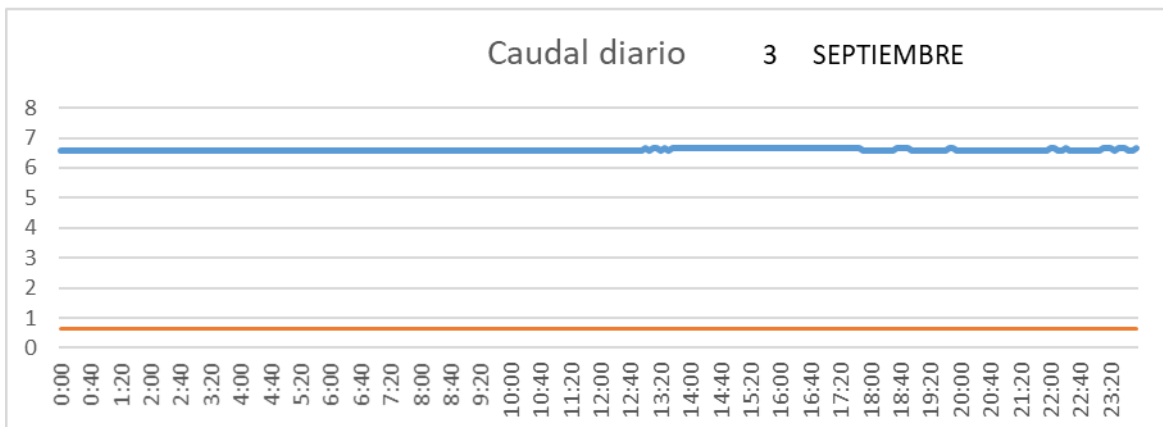
SALIDA TOBA



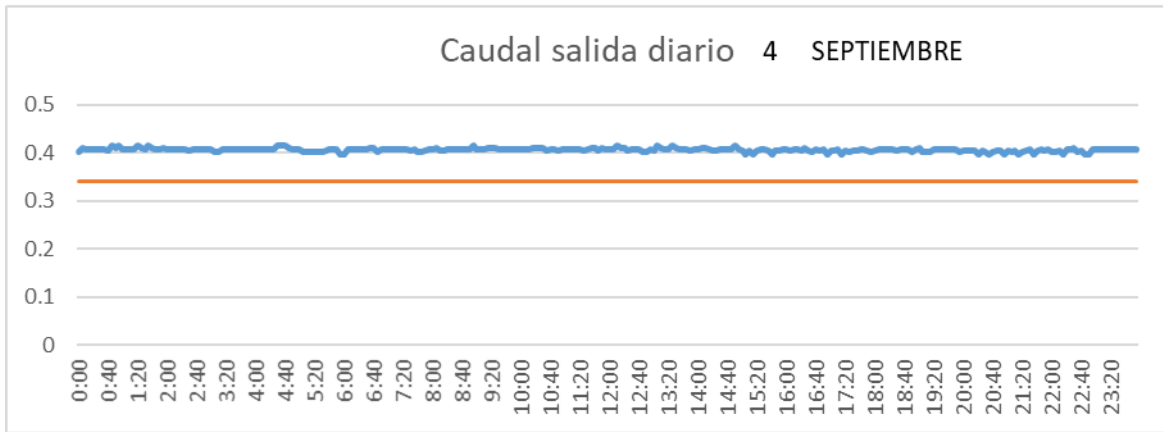
CUENCA



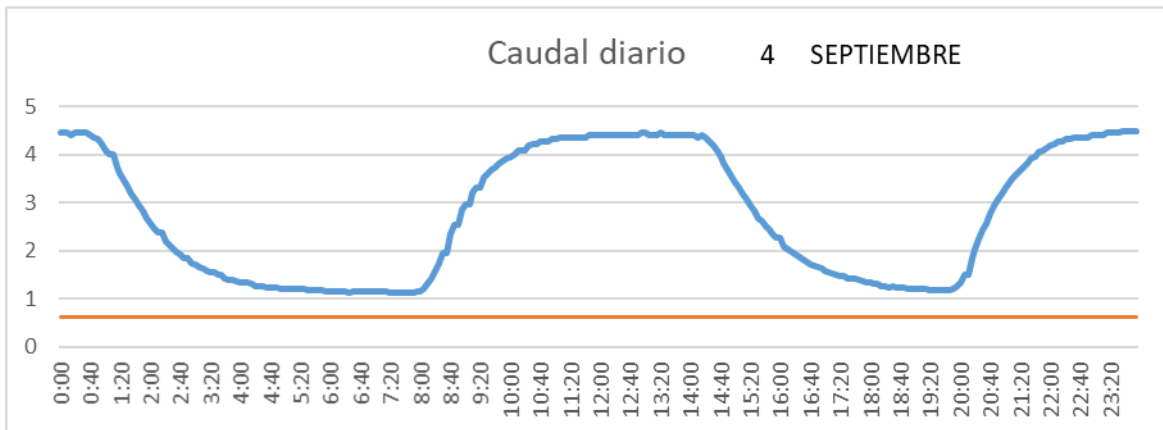
SAN LORENZO PARRILLA



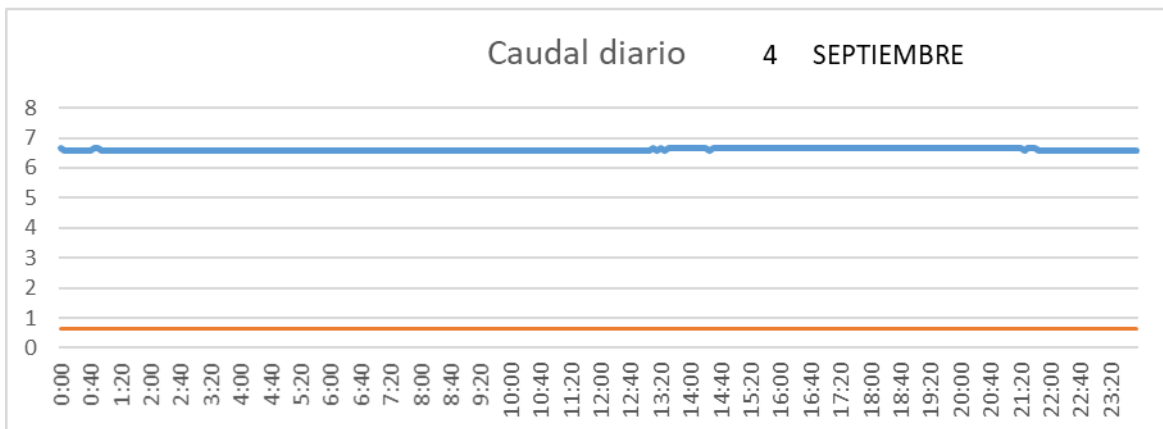
SALIDA TOBA



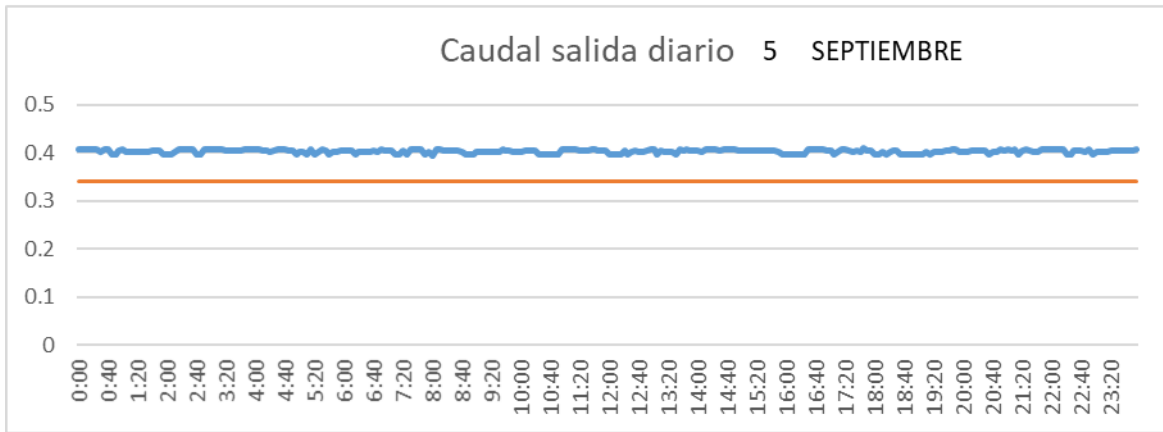
CUENCA



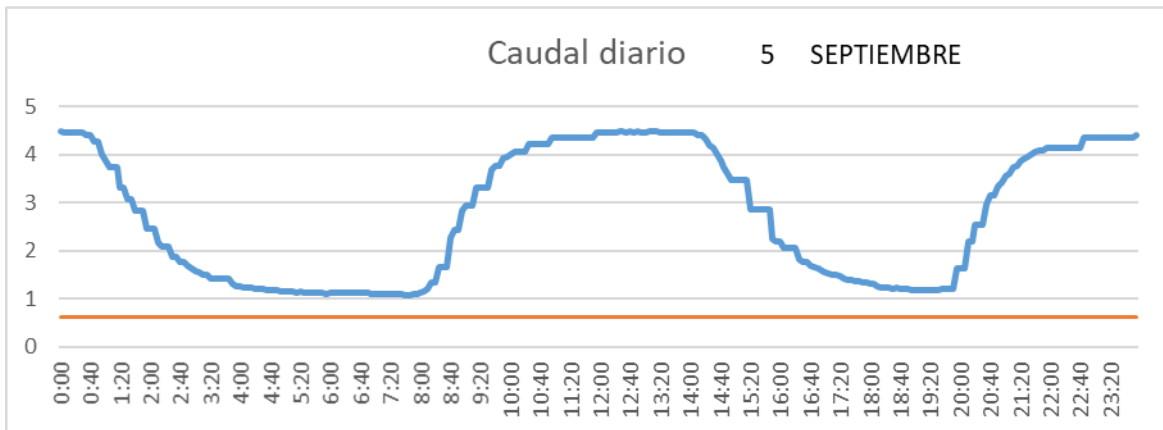
SAN LORENZO PARRILLA



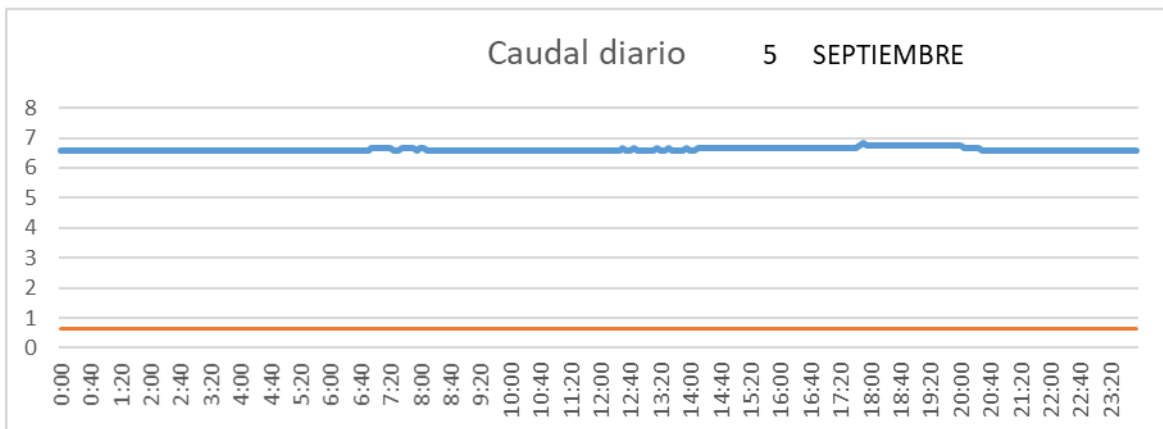
SALIDA TOBA



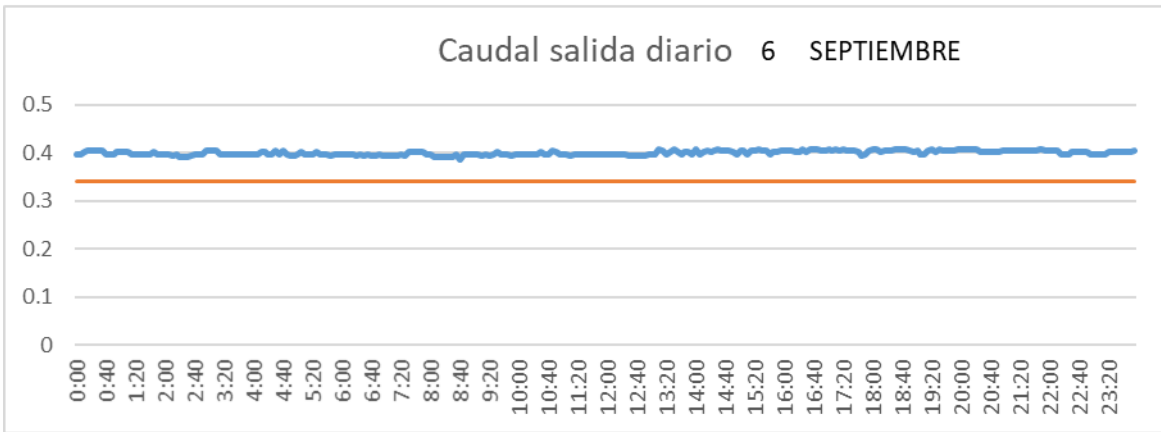
CUENCA



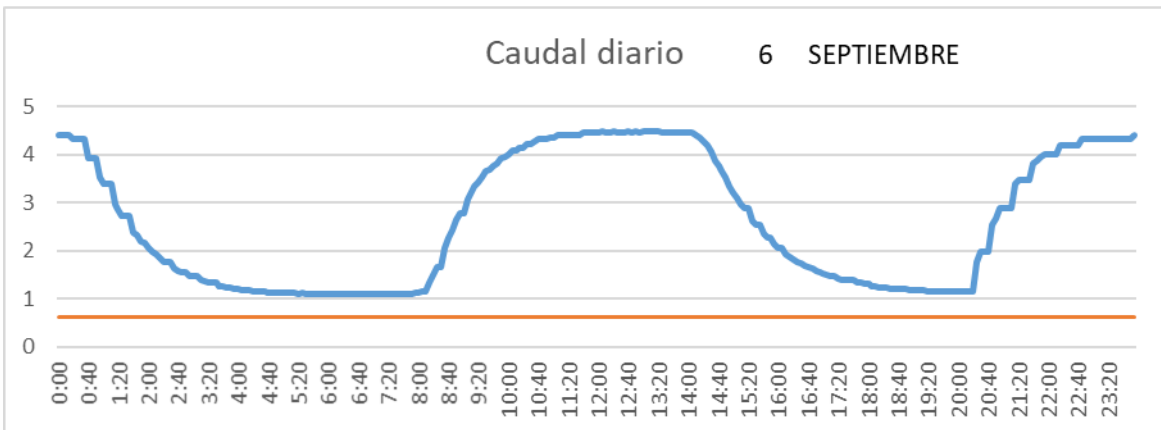
SAN LORENZO PARRILLA



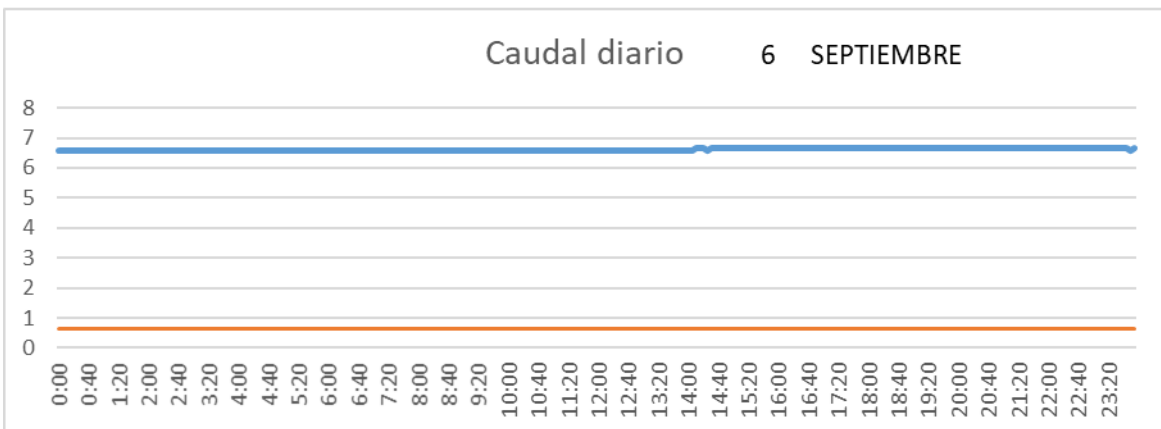
SALIDA TOBA



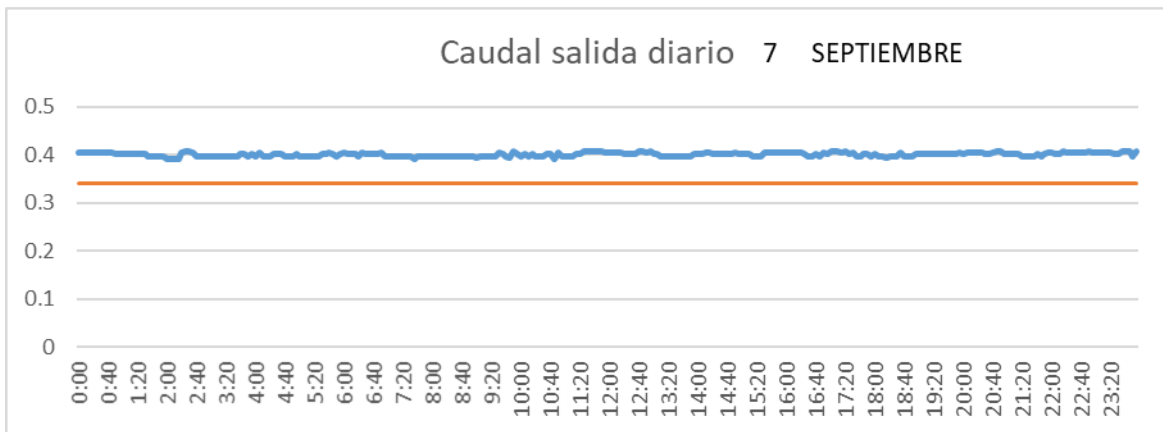
CUENCA



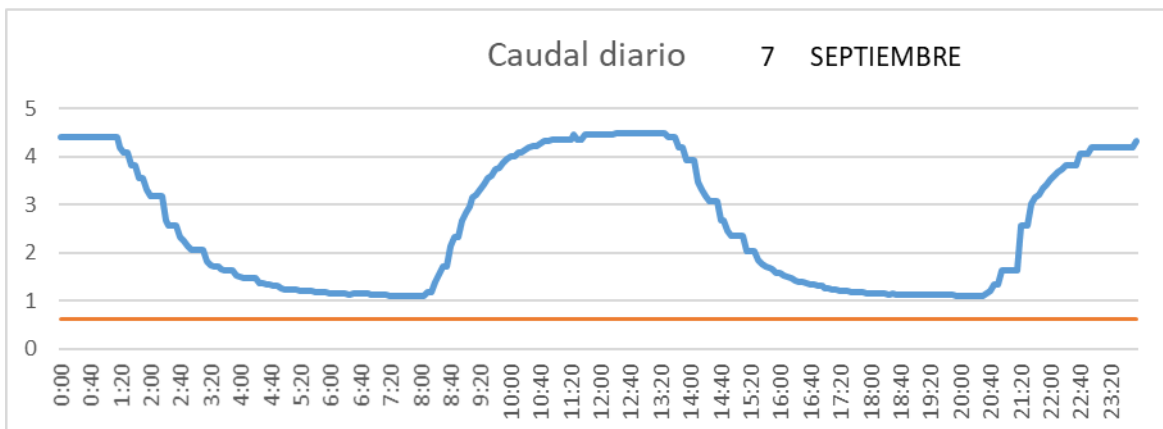
SAN LORENZO PARRILLA



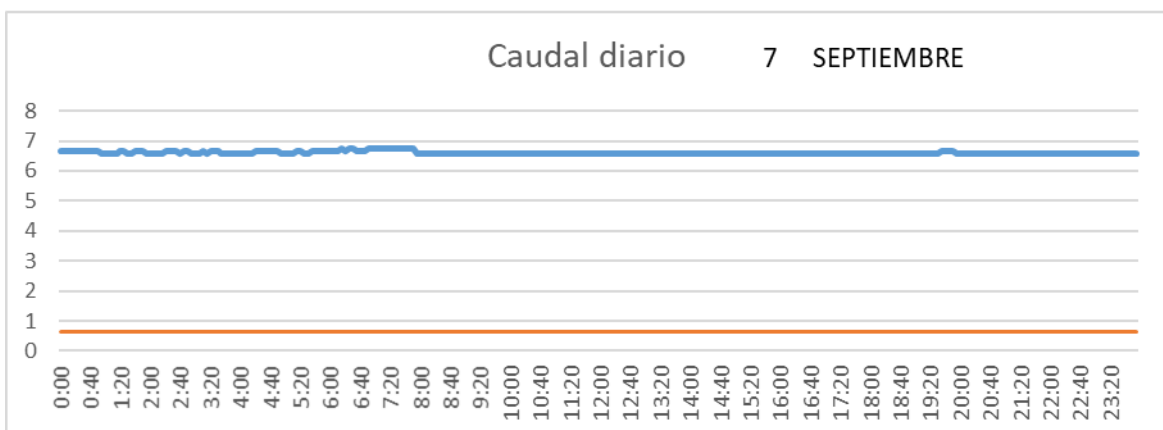
SALIDA TOBA



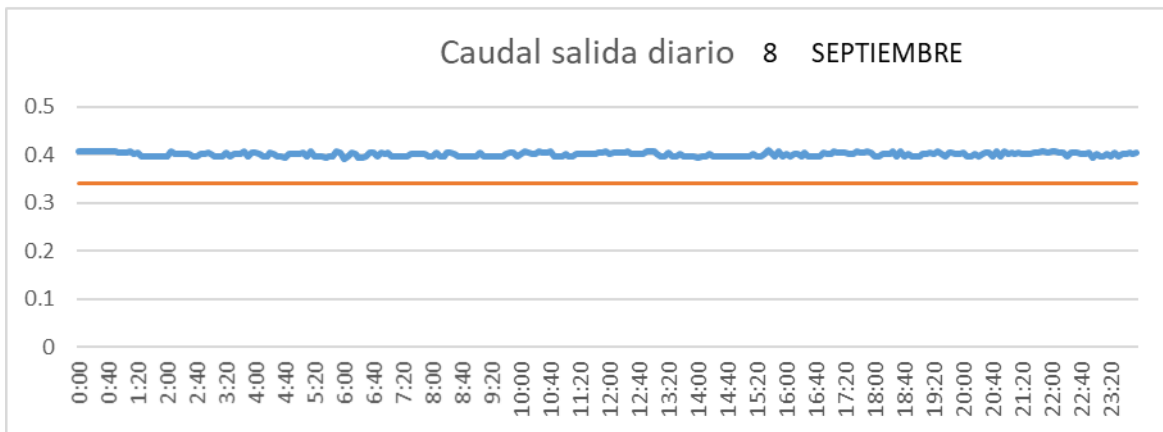
CUENCA



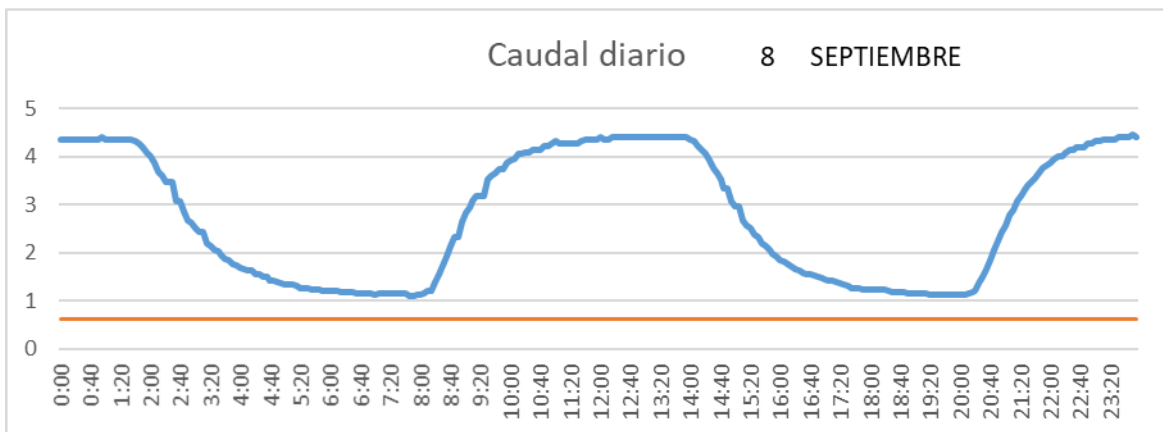
SAN LORENZO PARRILLA



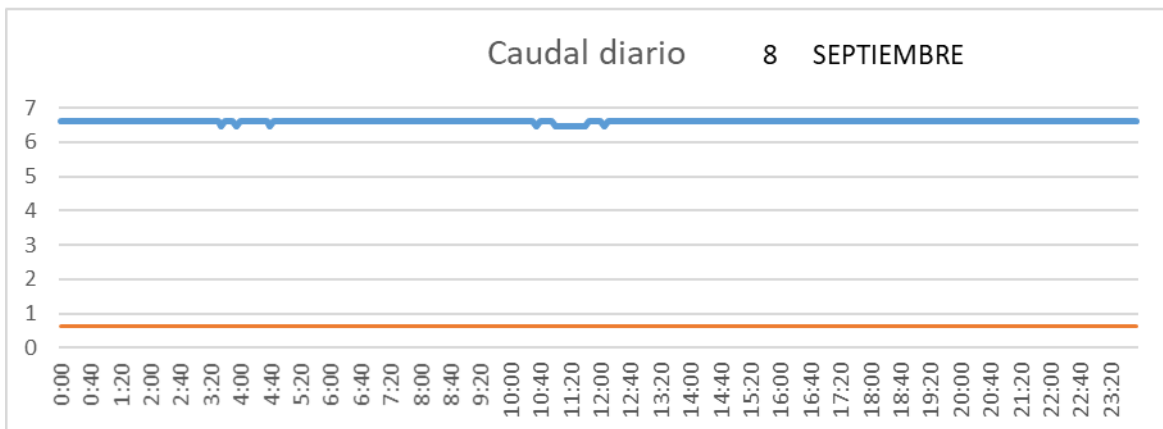
SALIDA TOBA



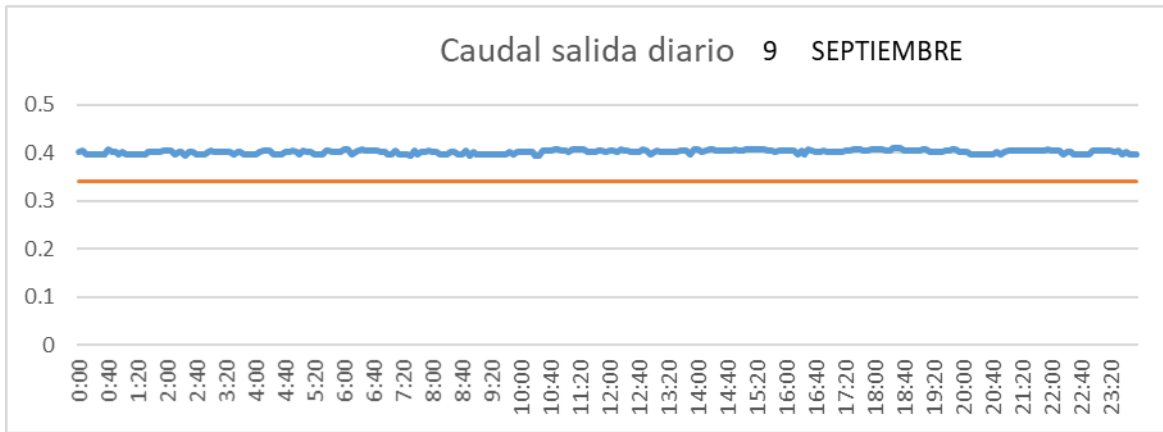
CUENCA



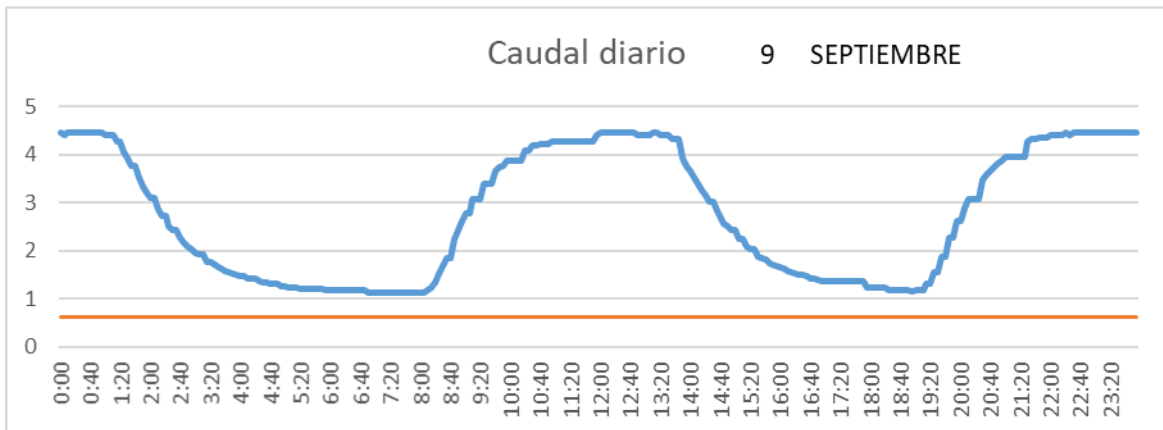
SAN LORENZO PARRILLA



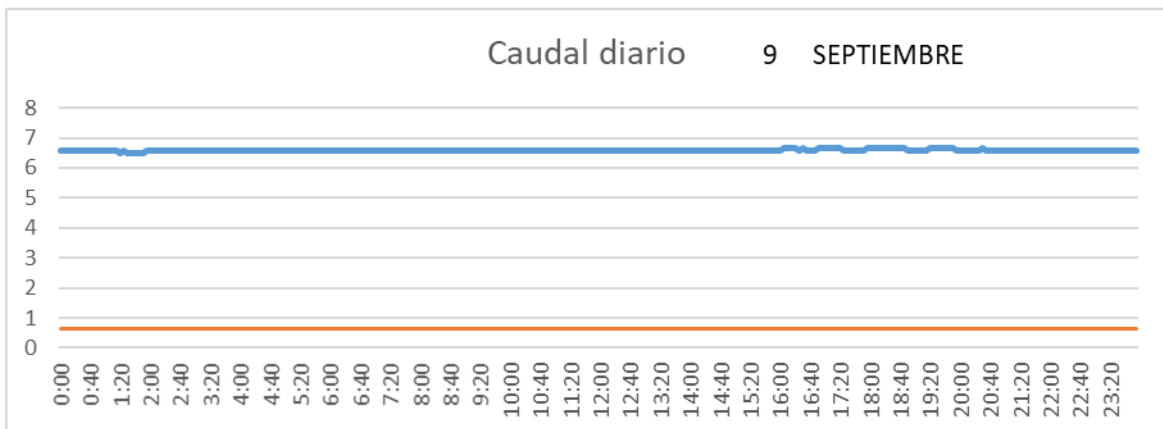
SALIDA TOBA



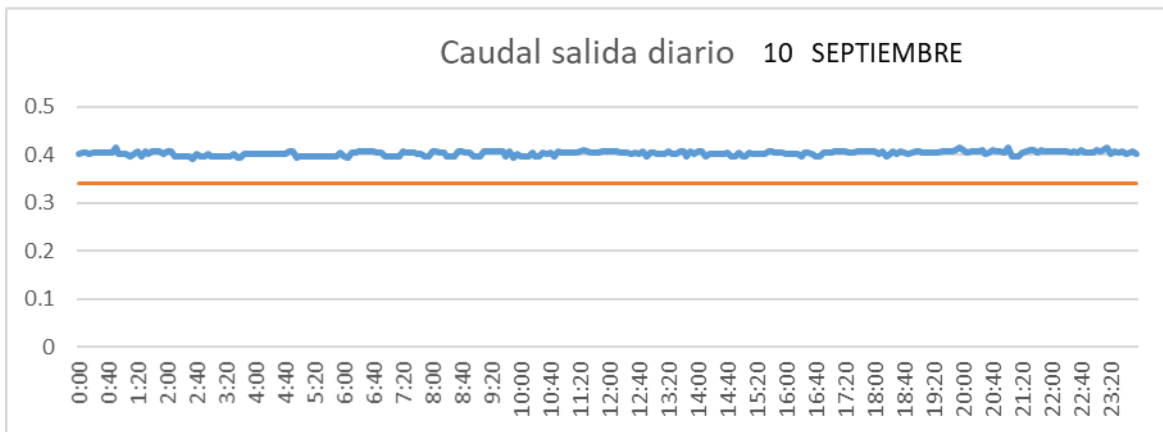
CUENCA



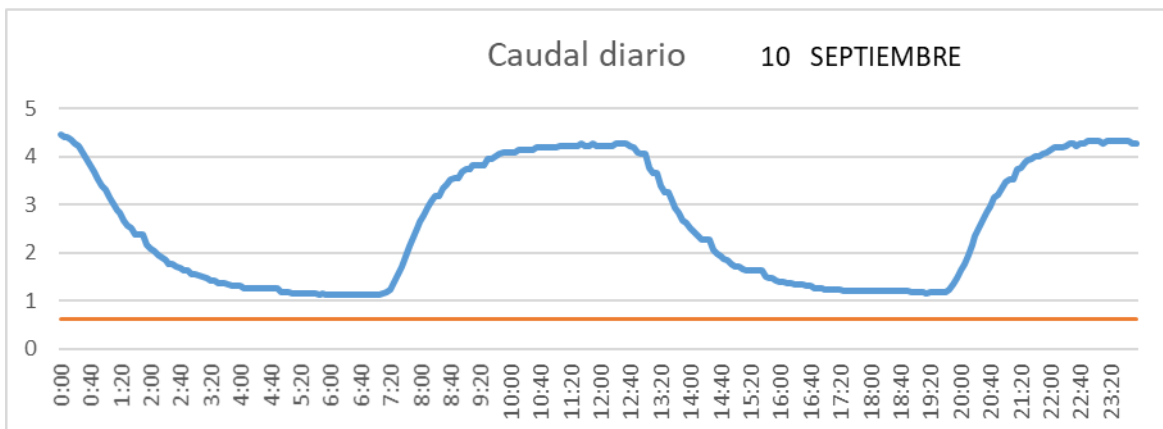
SAN LORENZO PARRILLA



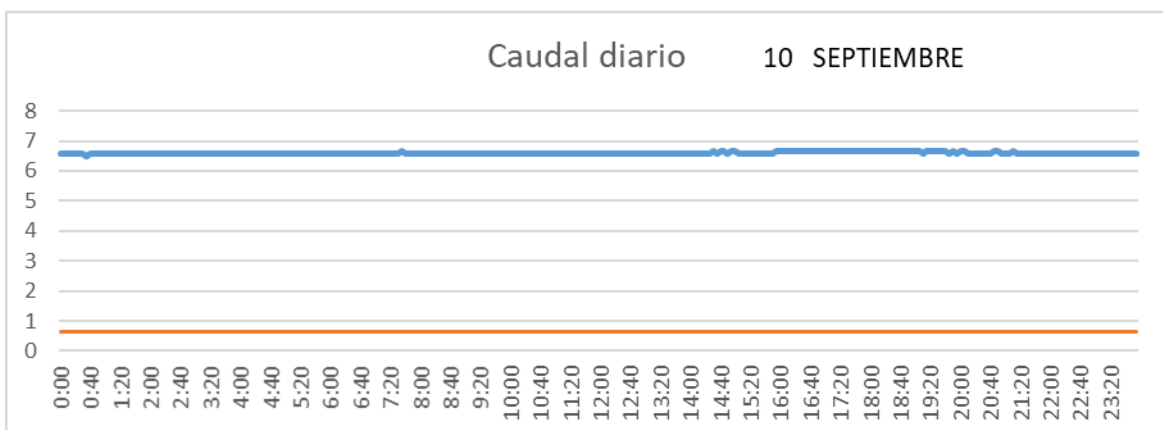
SALIDA TOBA



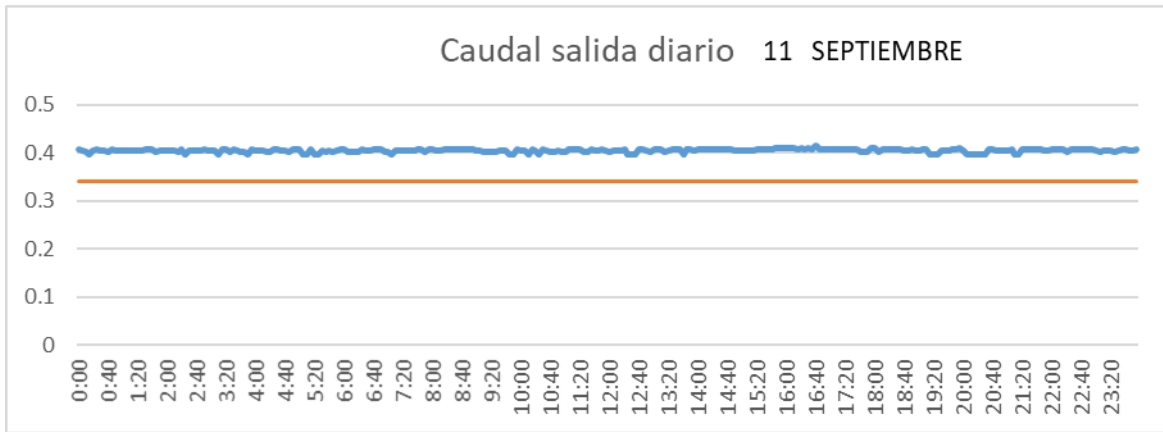
CUENCA



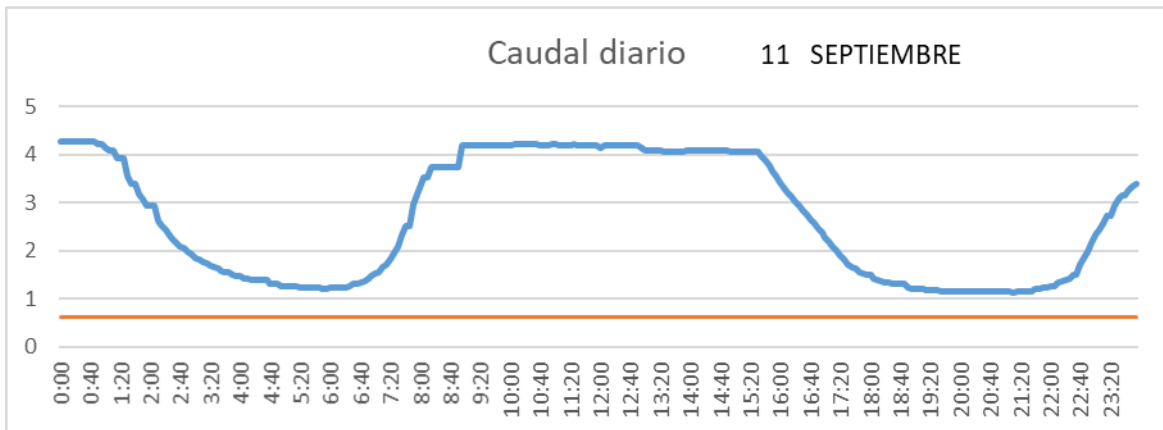
SAN LORENZO PARRILLA



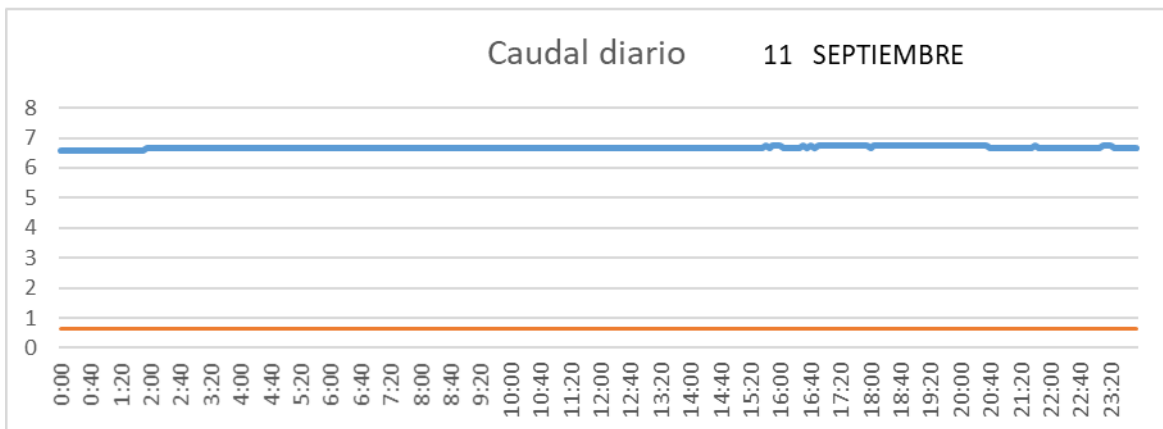
SALIDA TOBA



CUENCA



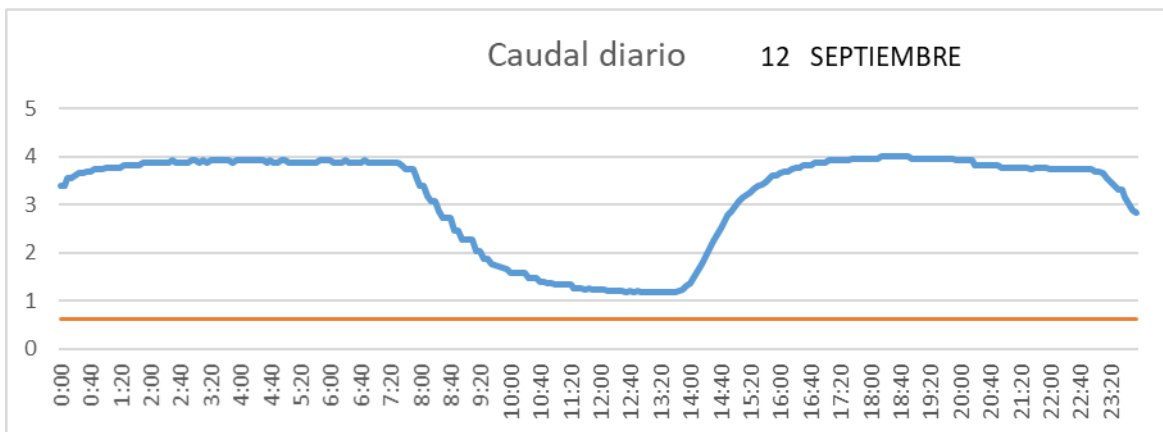
SAN LORENZO PARRILLA



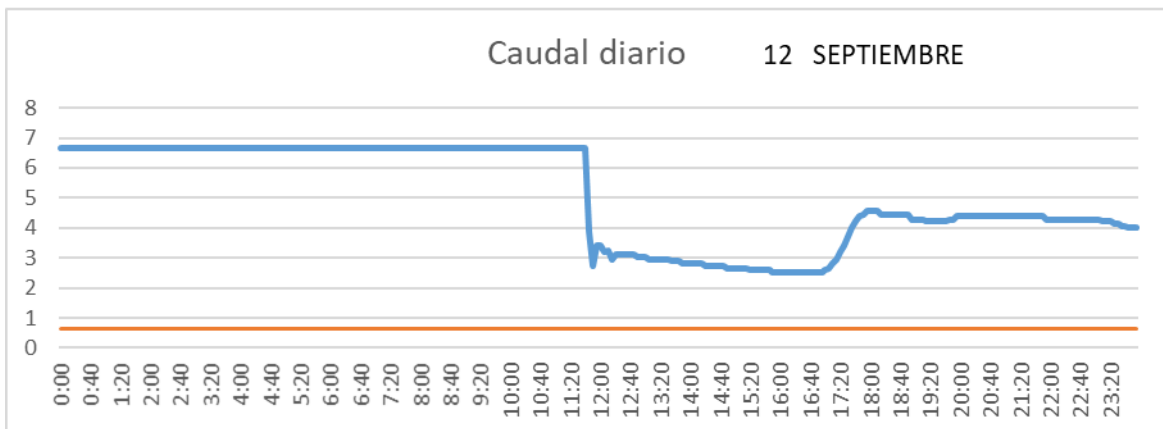
SALIDA TOBA



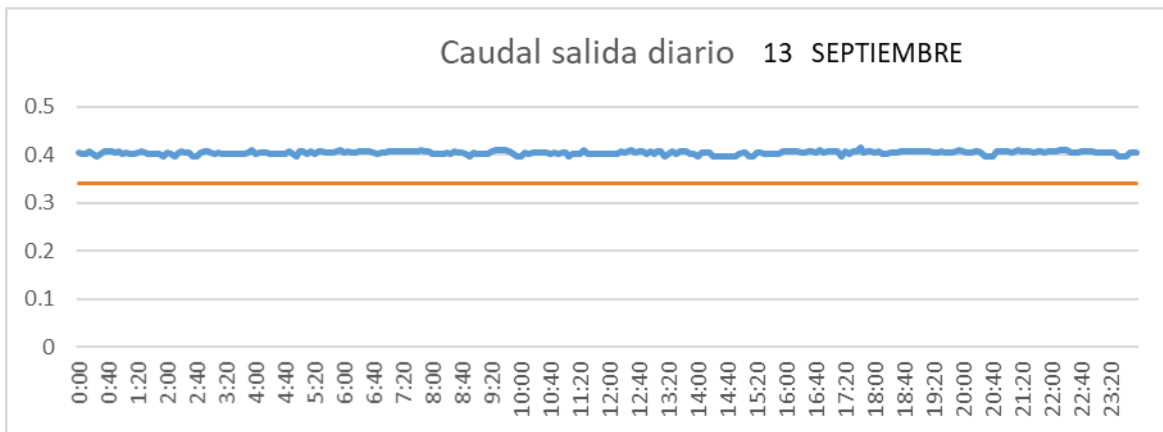
CUENCA



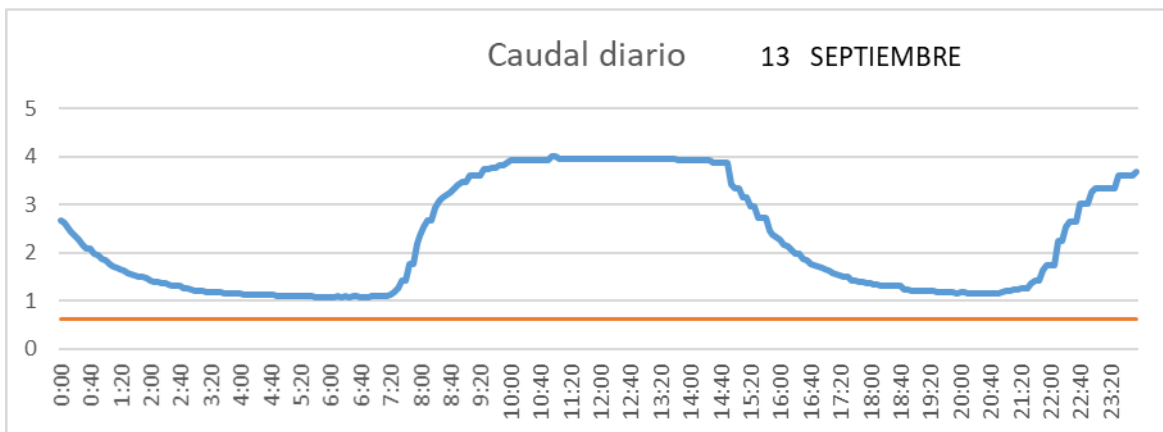
SAN LORENZO PARRILLA



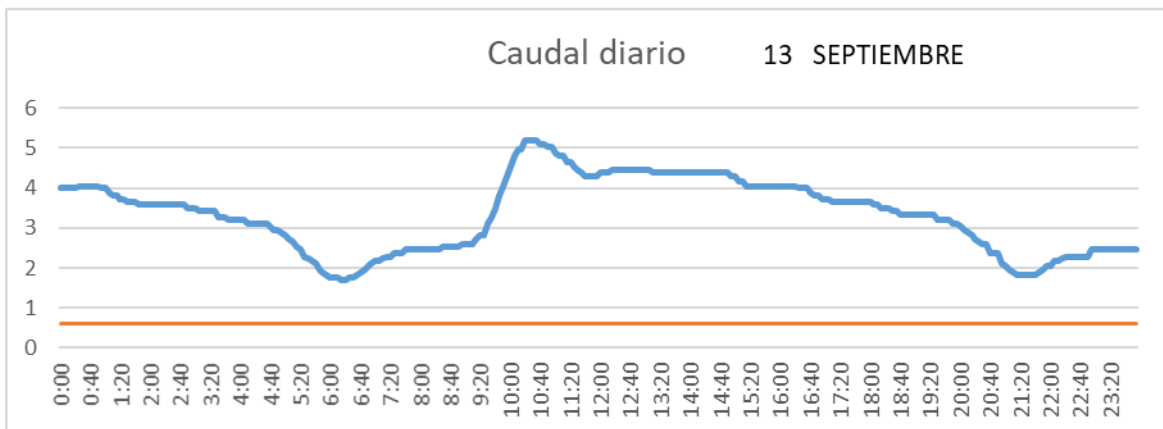
SALIDA TOBA



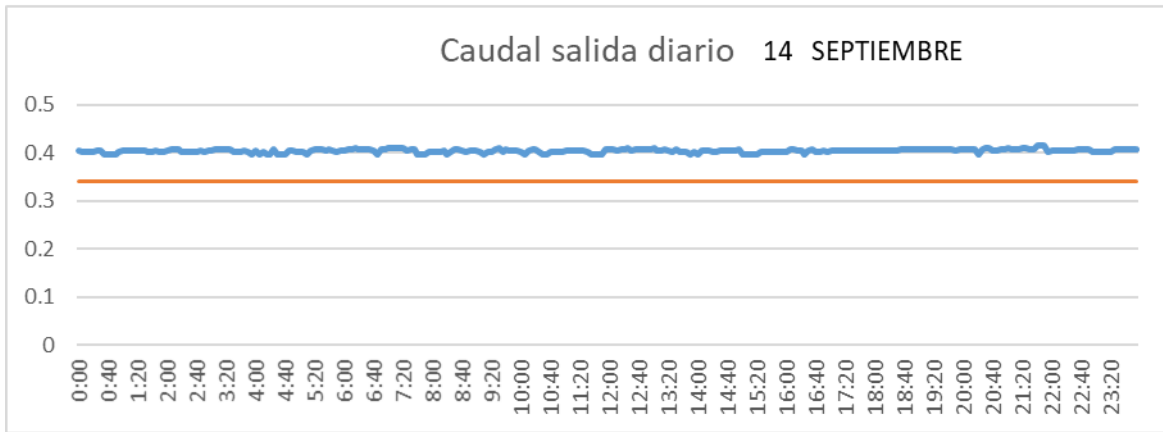
CUENCA



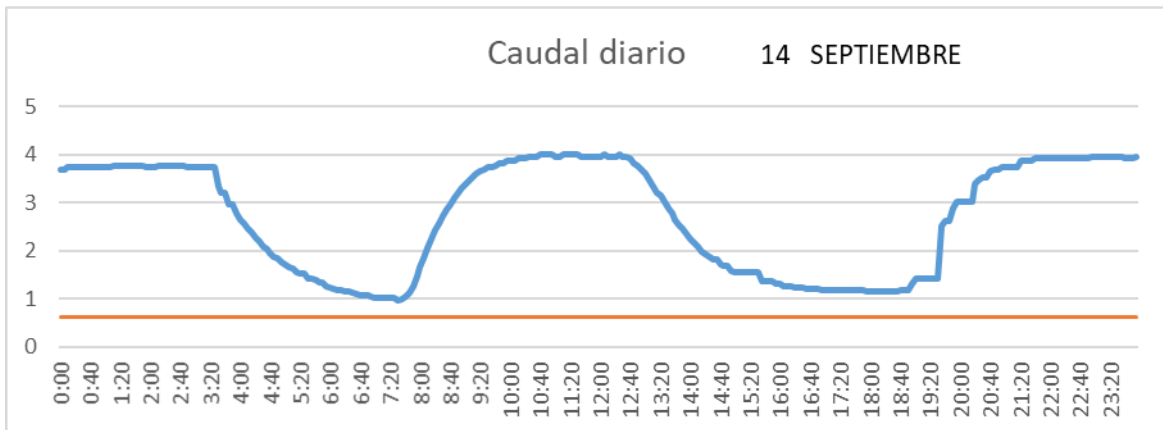
SAN LORENZO PARRILLA



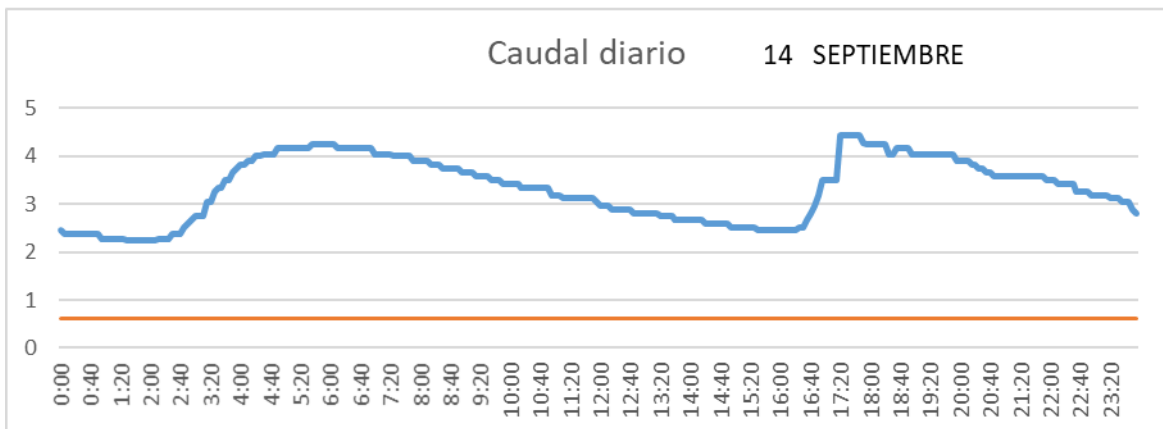
SALIDA TOBA



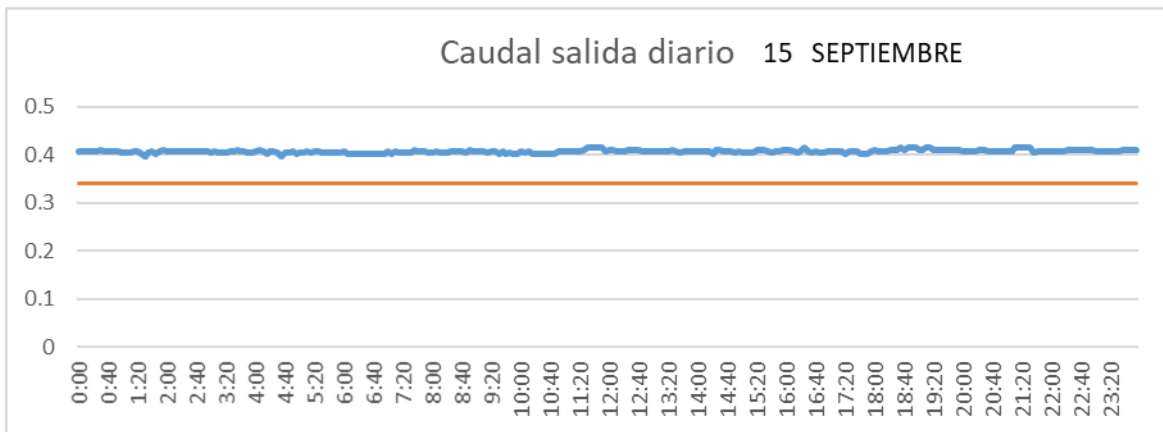
CUENCA



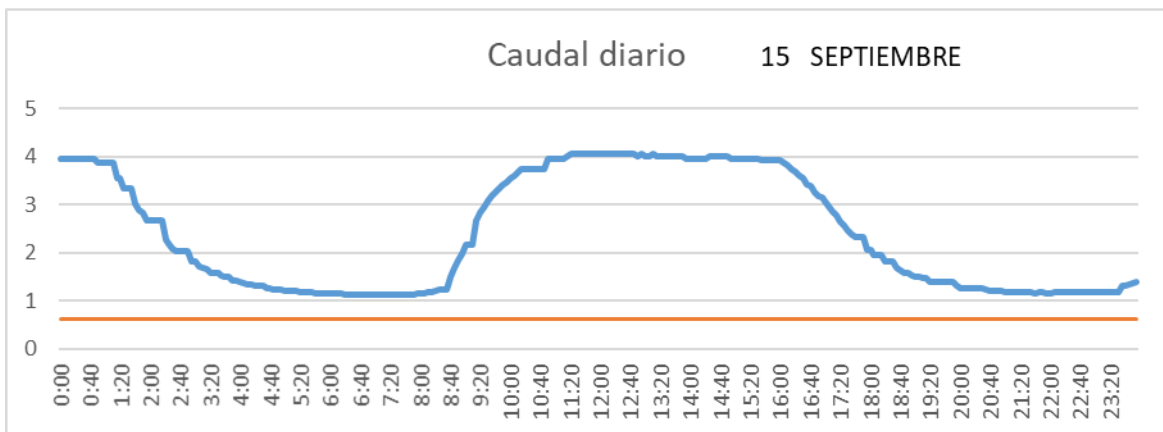
SAN LORENZO PARRILLA



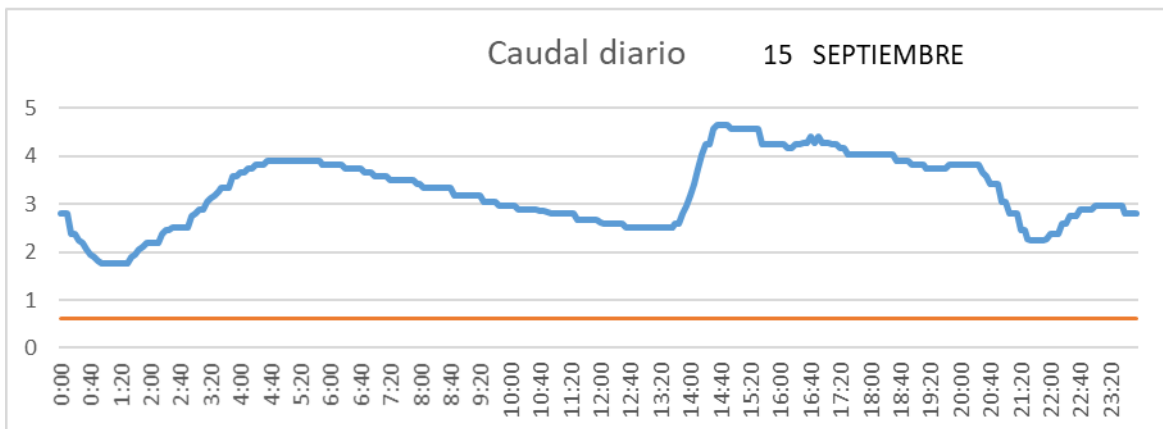
SALIDA TOBA



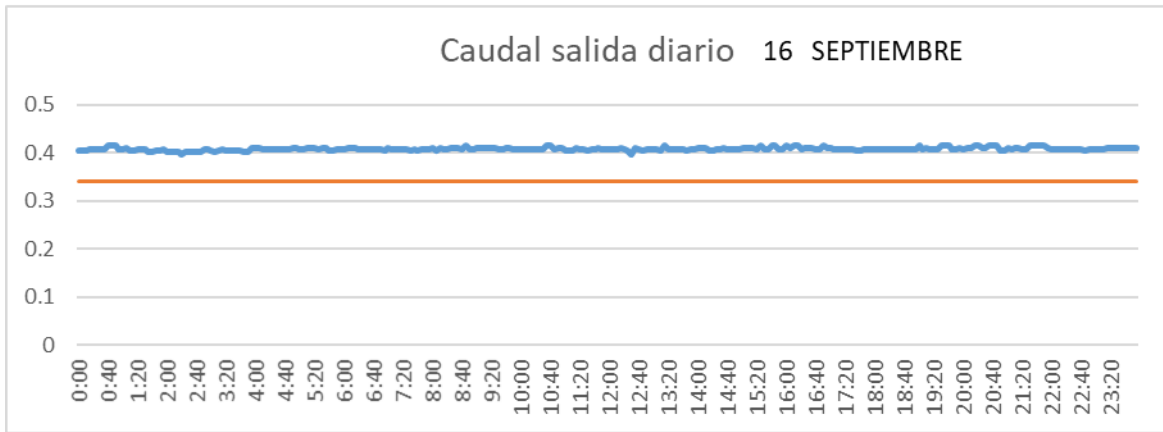
CUENCA



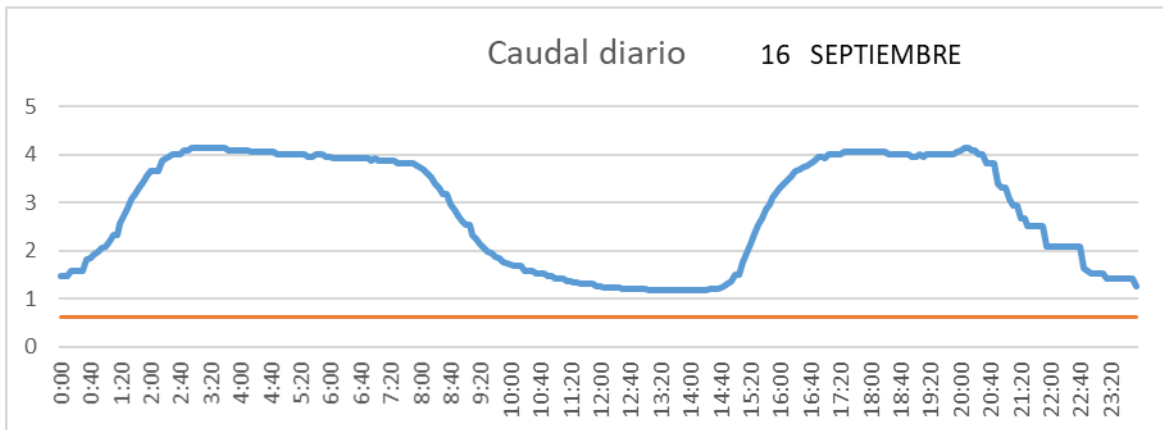
SAN LORENZO PARRILLA



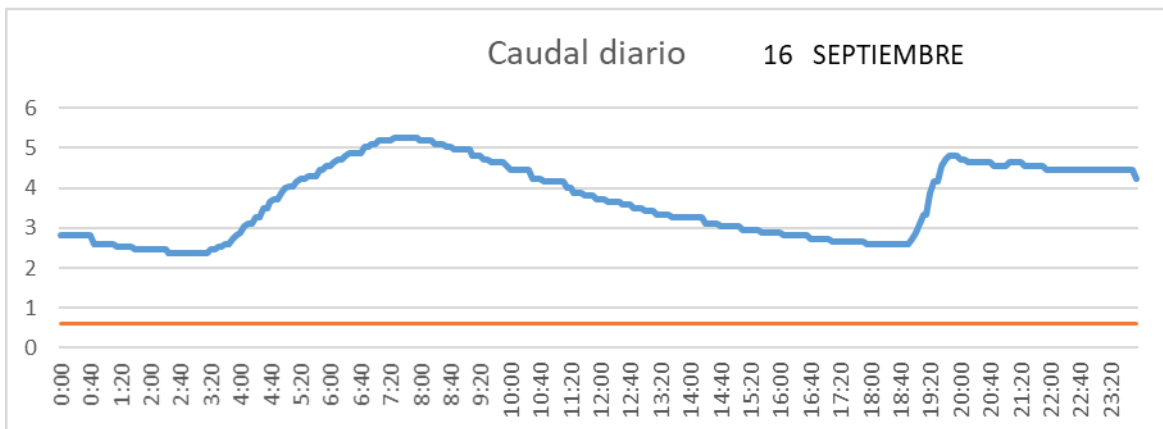
SALIDA TOBA



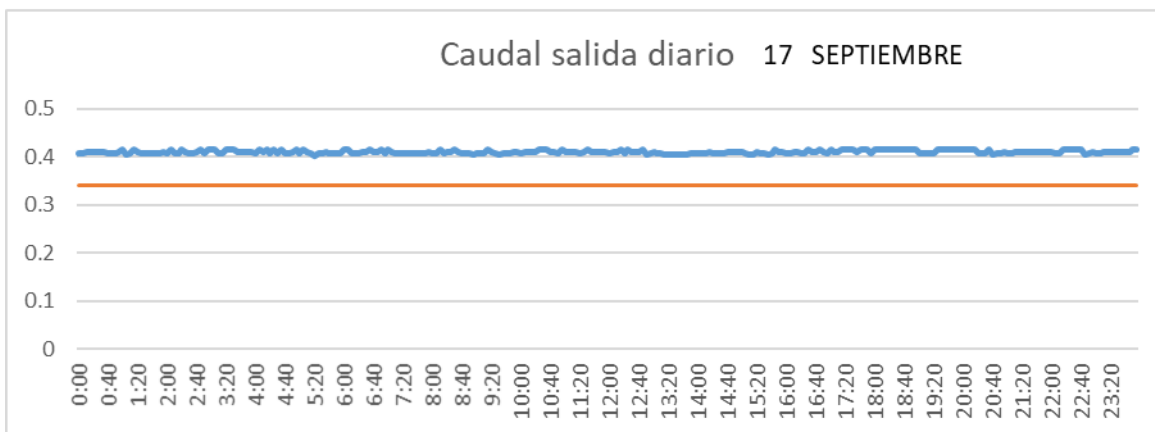
CUENCA



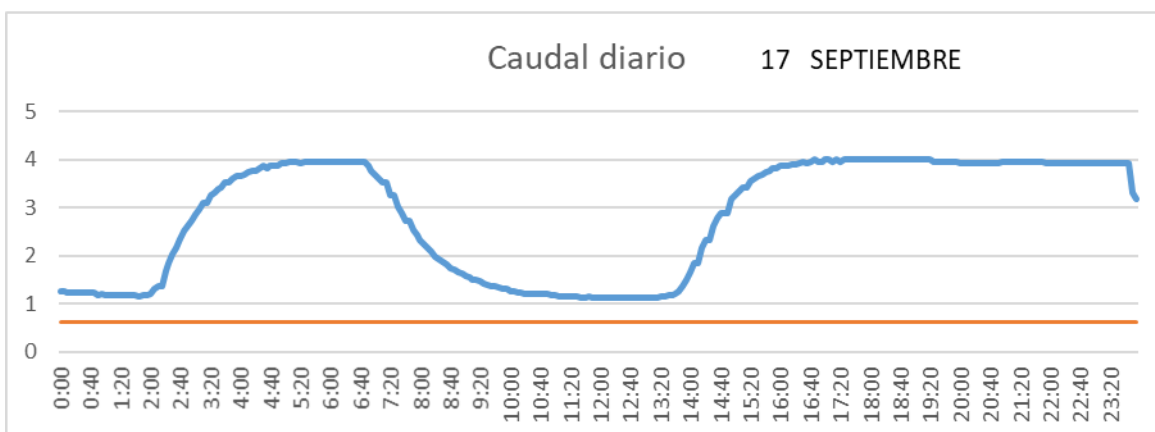
SAN LORENZO PARRILLA



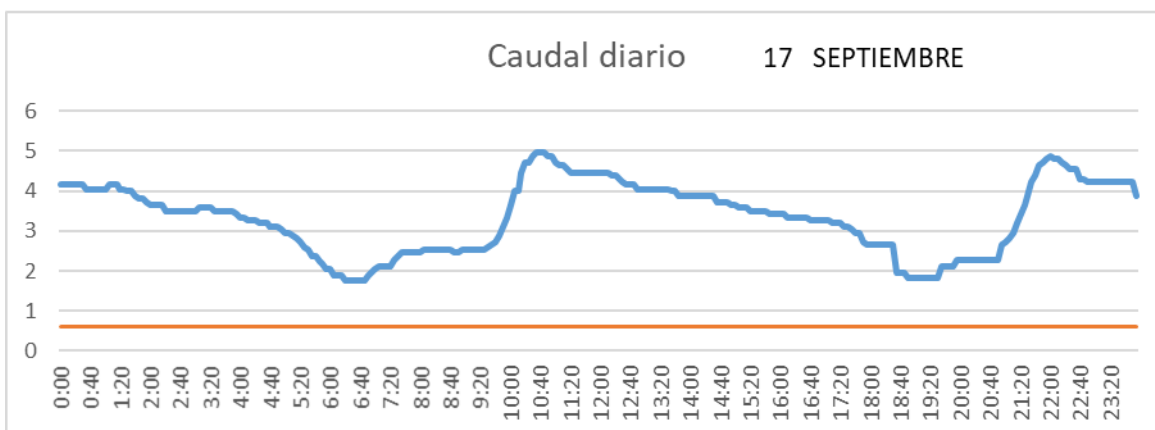
SALIDA TOBA



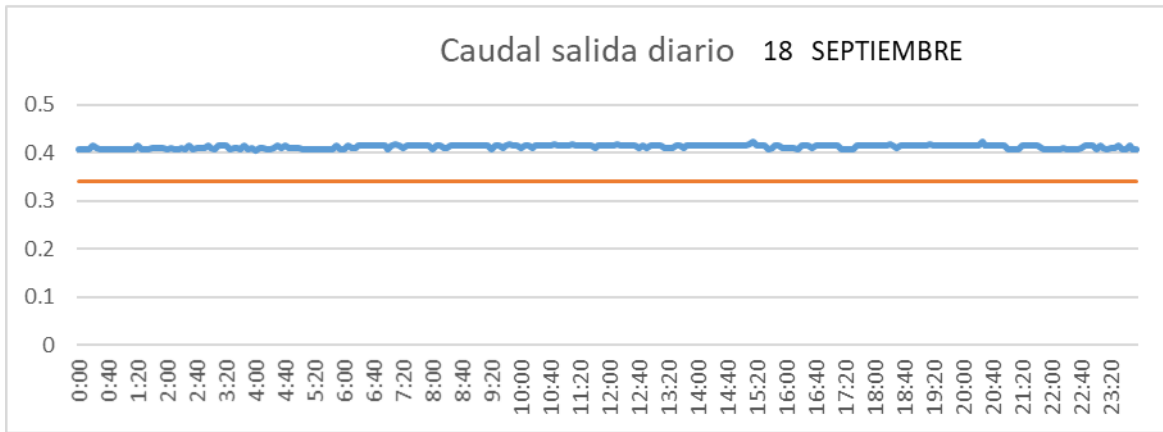
CUENCA



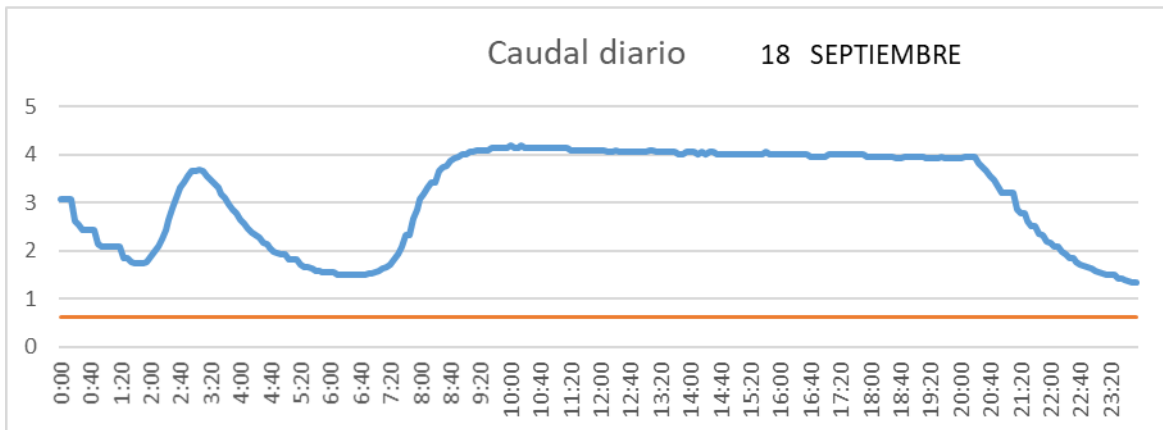
SAN LORENZO PARRILLA



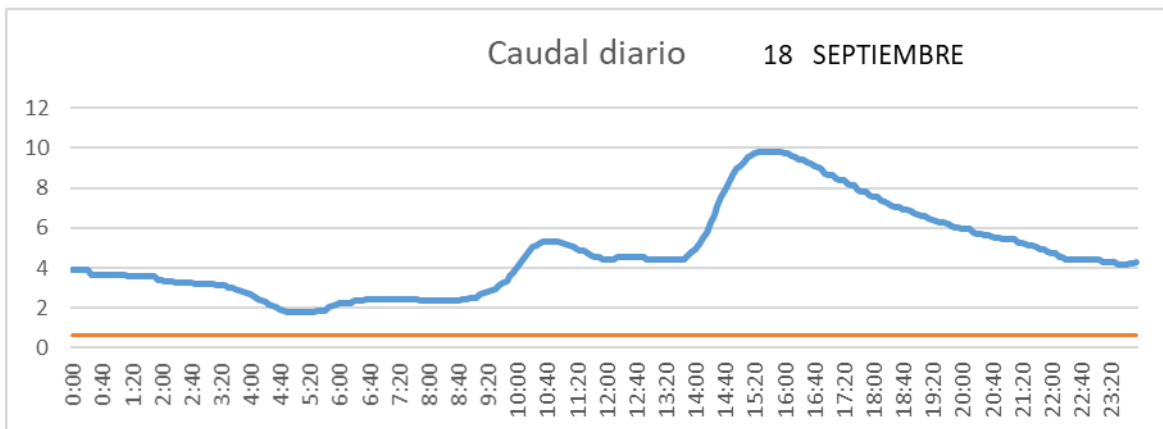
SALIDA TOBA



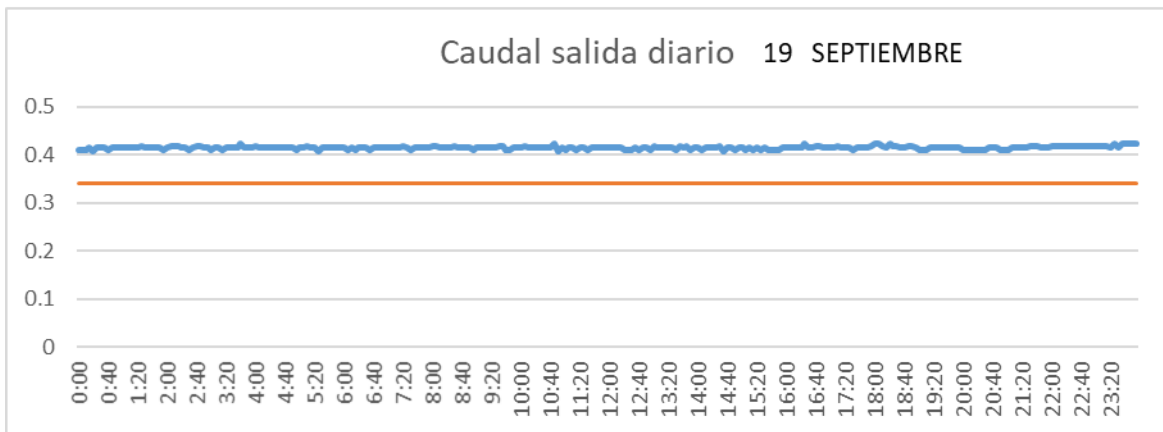
CUENCA



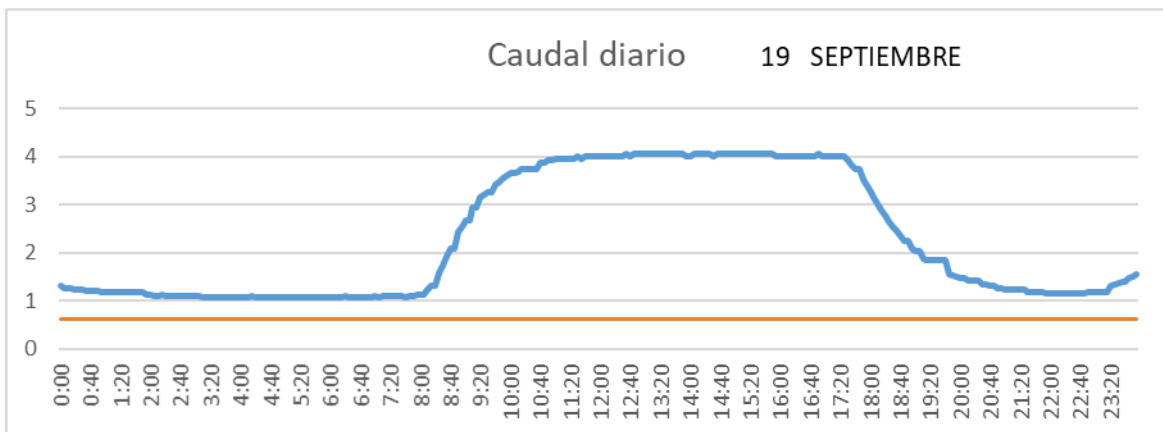
SAN LORENZO PARRILLA



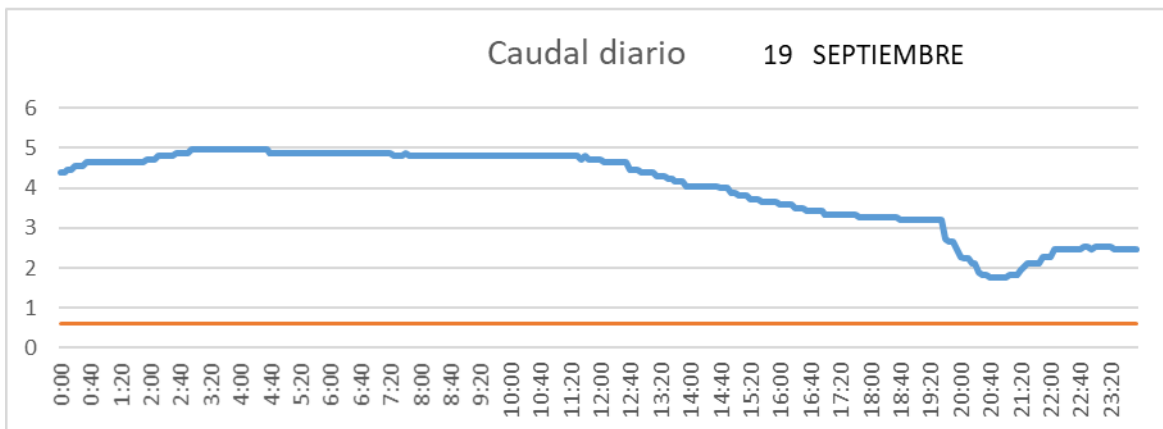
SALIDA TOBA



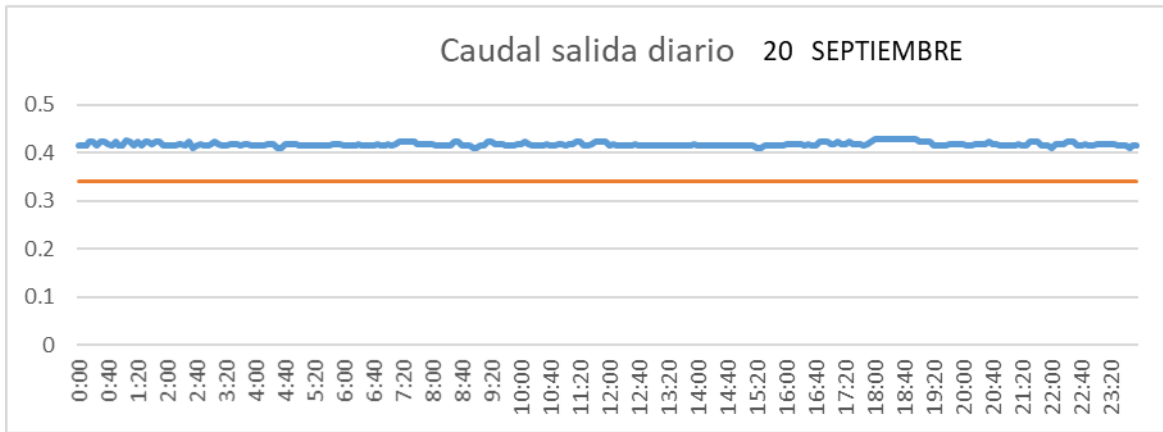
CUENCA



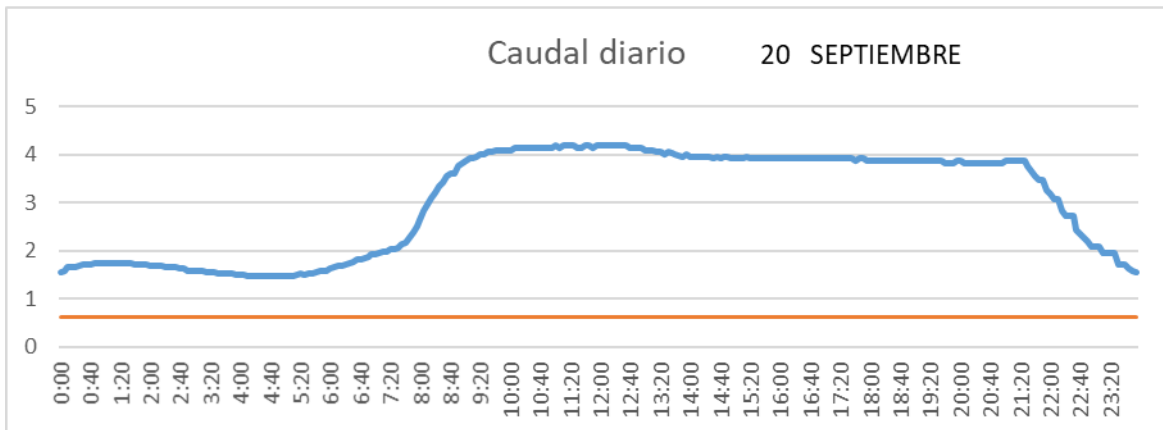
SAN LORENZO PARRILLA



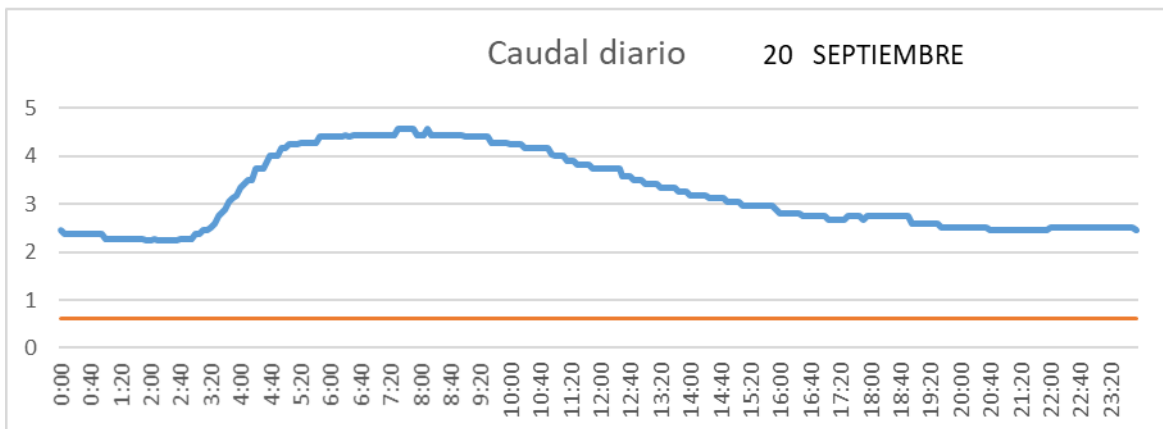
SALIDA TOBA



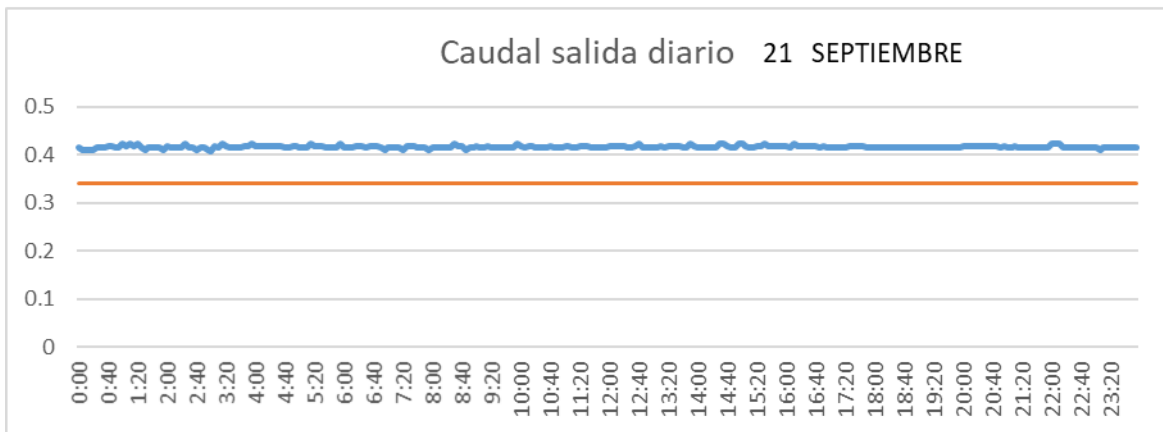
CUENCA



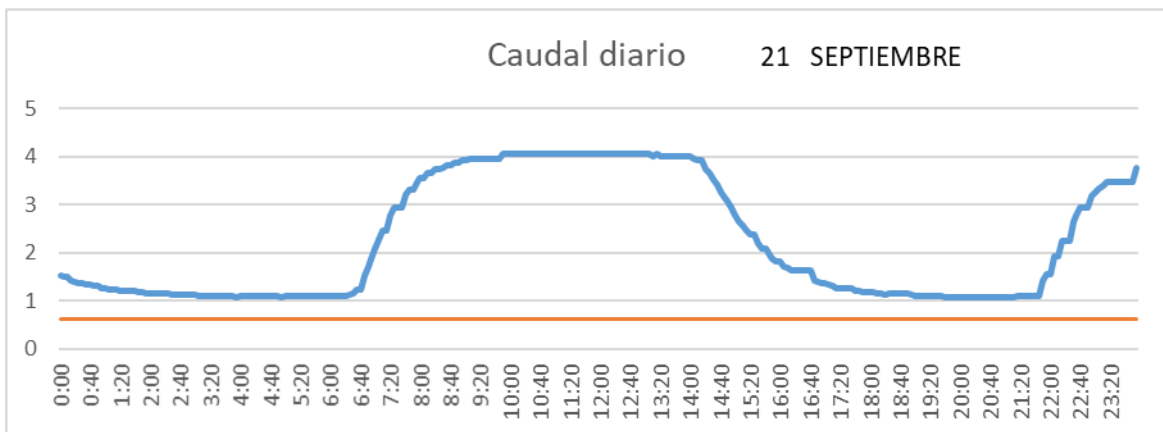
SAN LORENZO PARRILLA



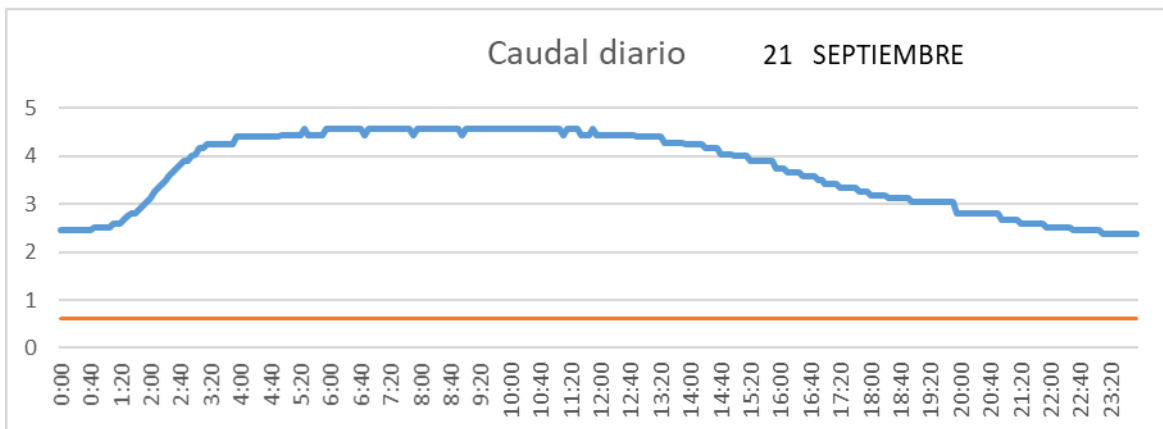
SALIDA TOBA



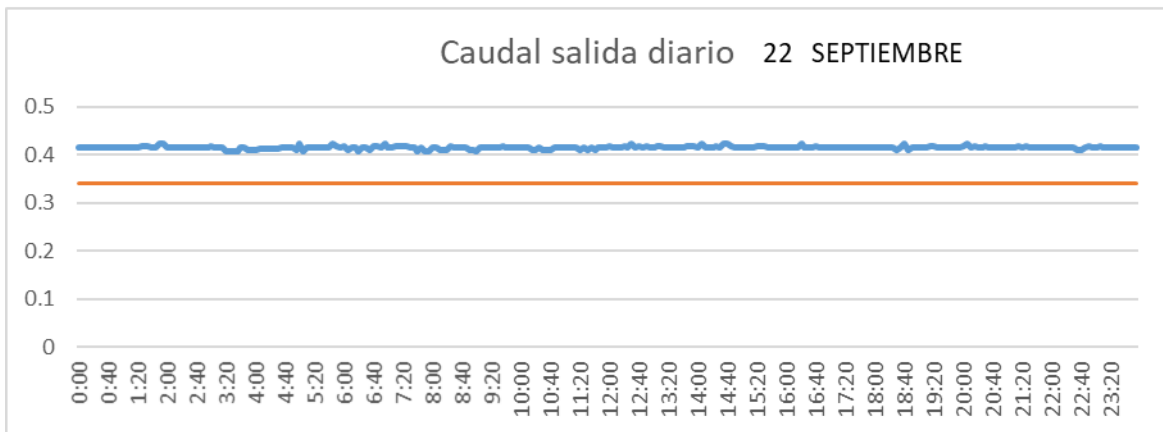
CUENCA



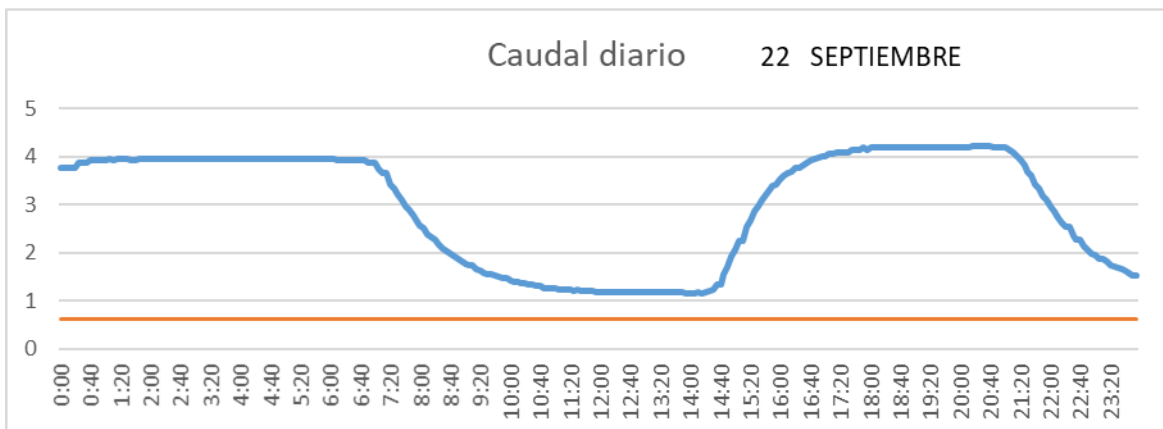
SAN LORENZO PARRILLA



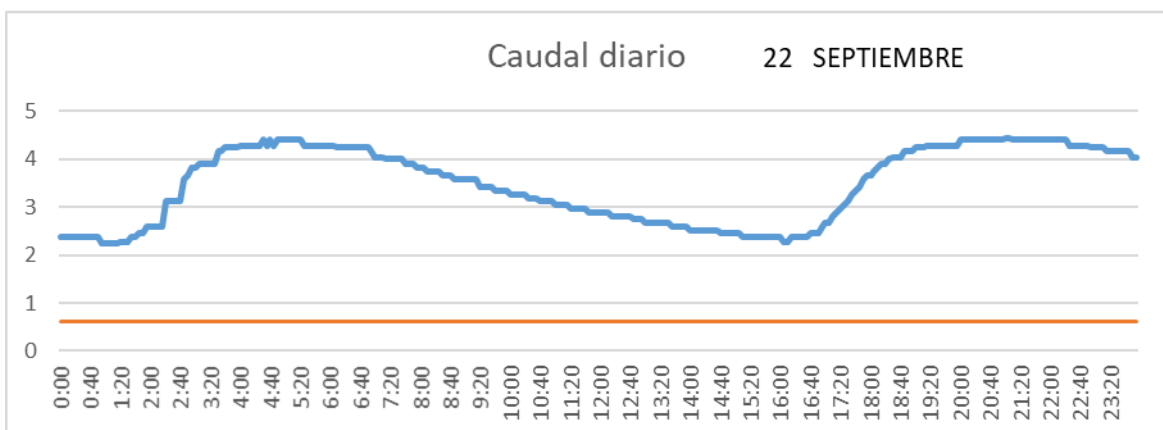
SALIDA TOBA



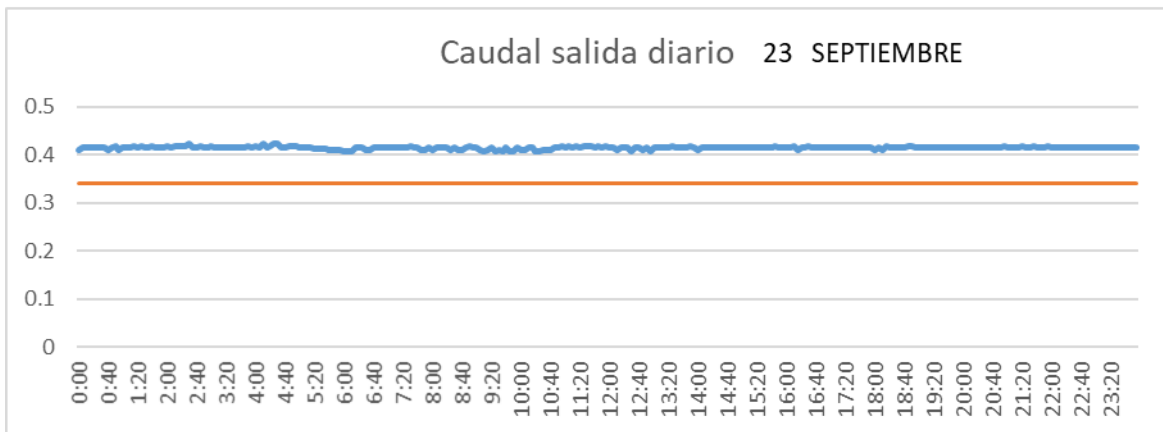
CUENCA



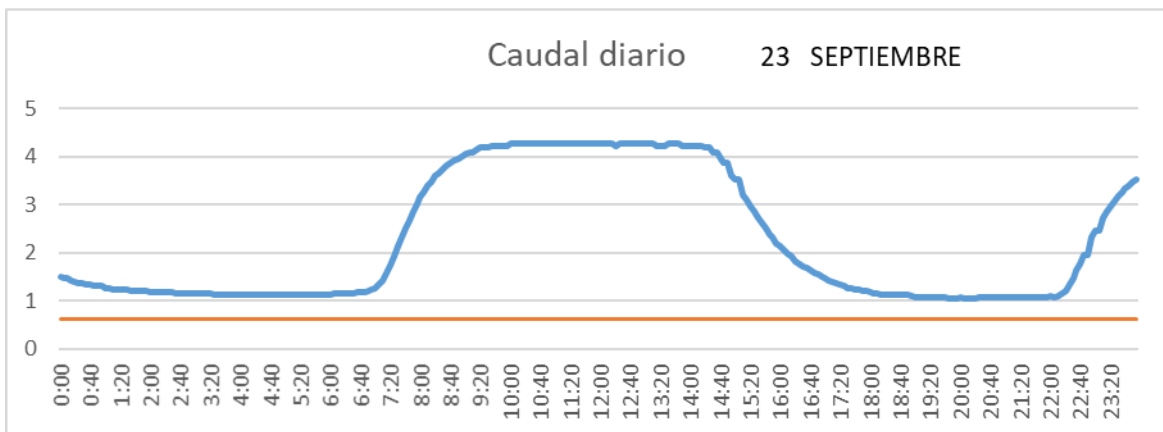
SAN LORENZO PARRILLA



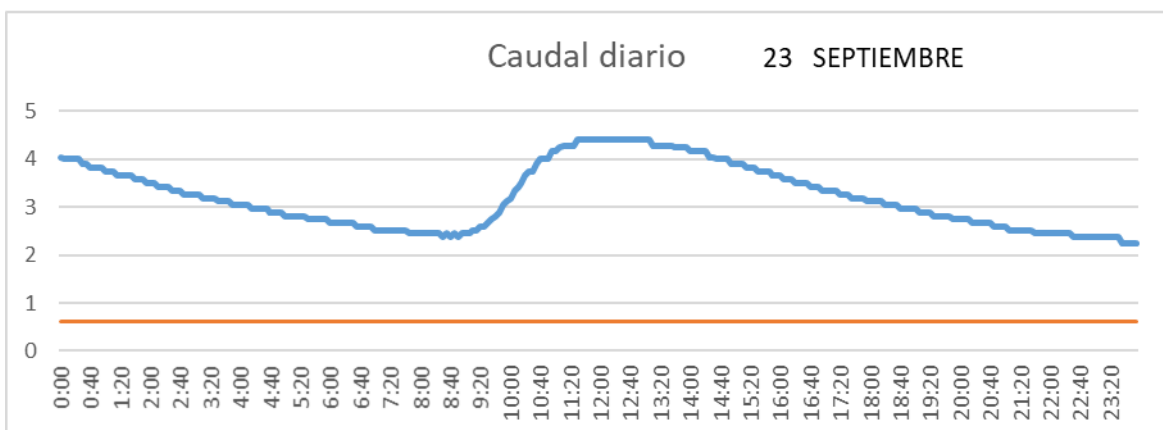
SALIDA TOBA



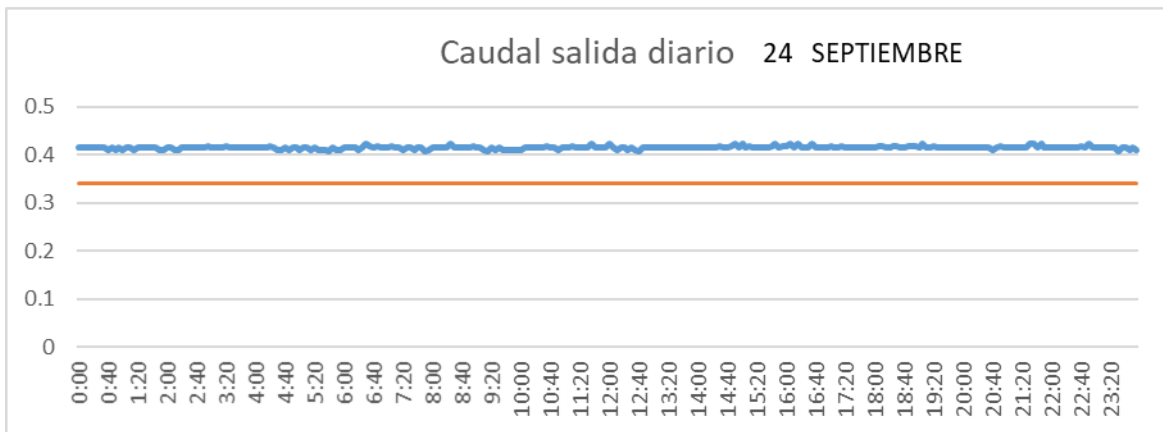
CUENCA



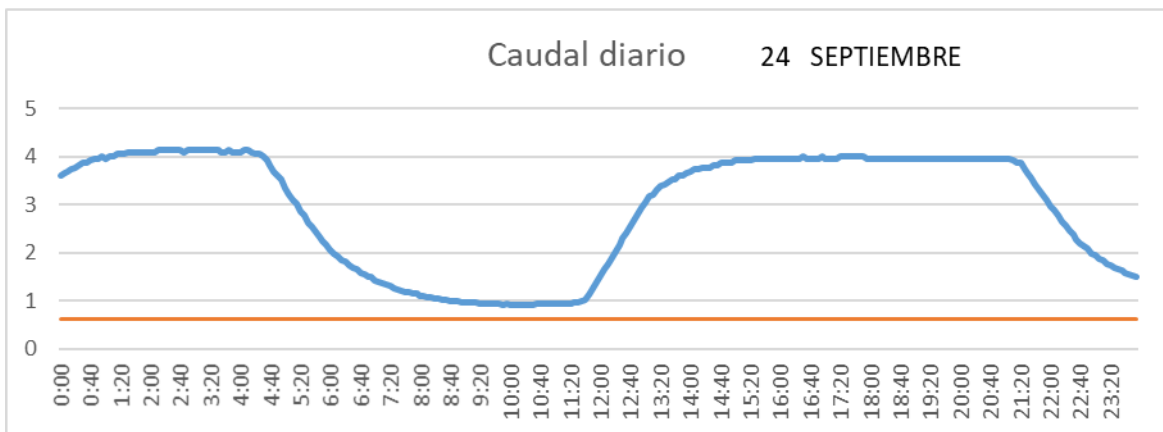
SAN LORENZO PARRILLA



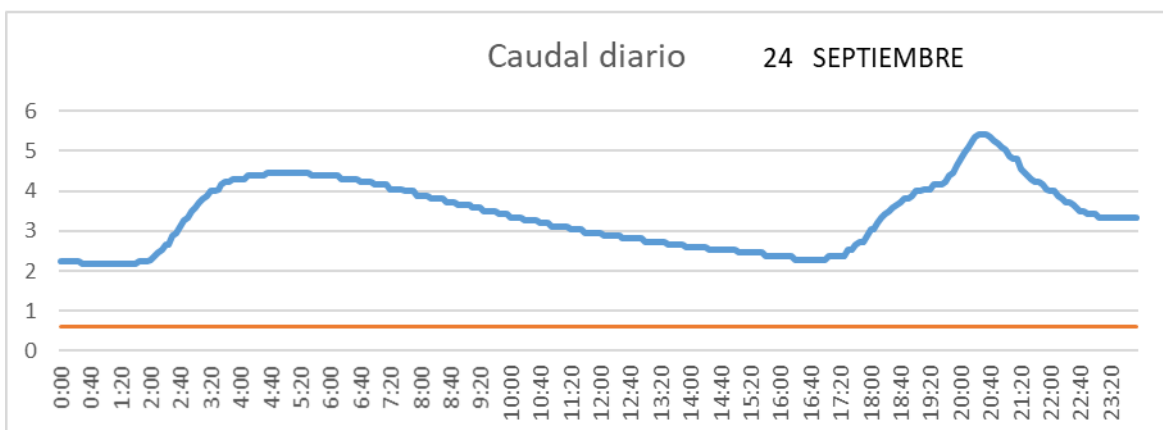
SALIDA TOBA



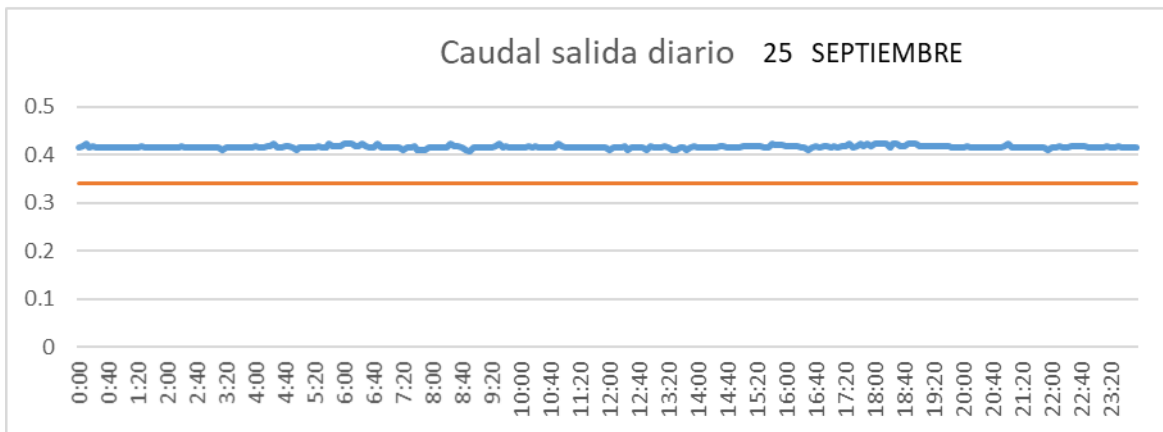
CUENCA



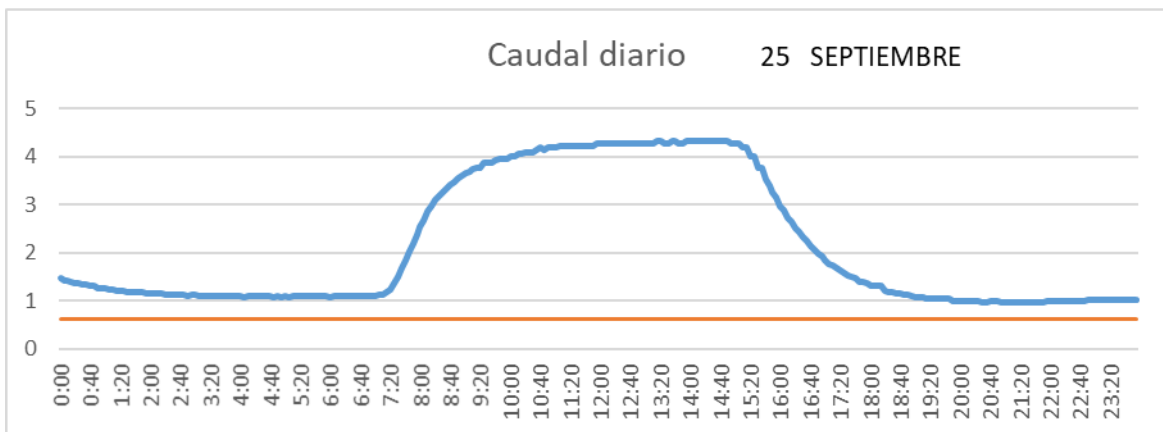
SAN LORENZO PARRILLA



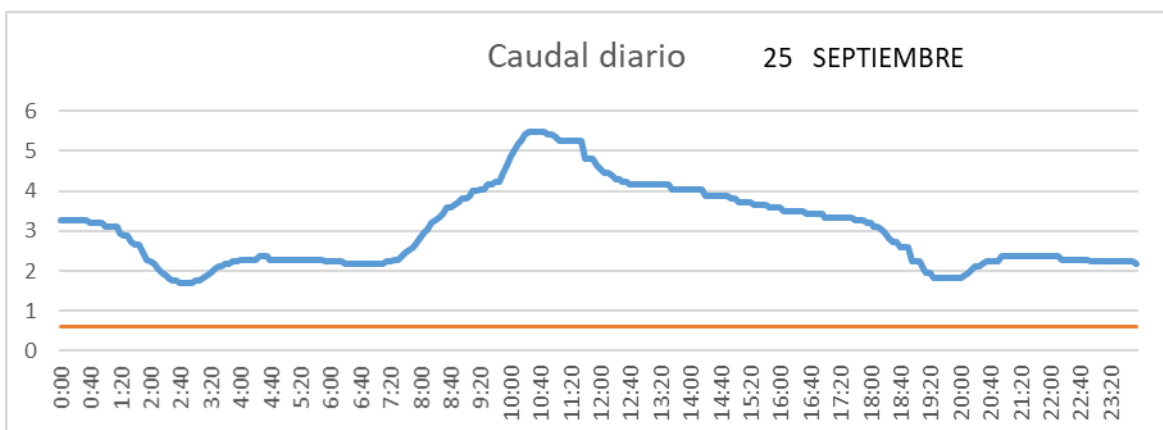
SALIDA TOBA



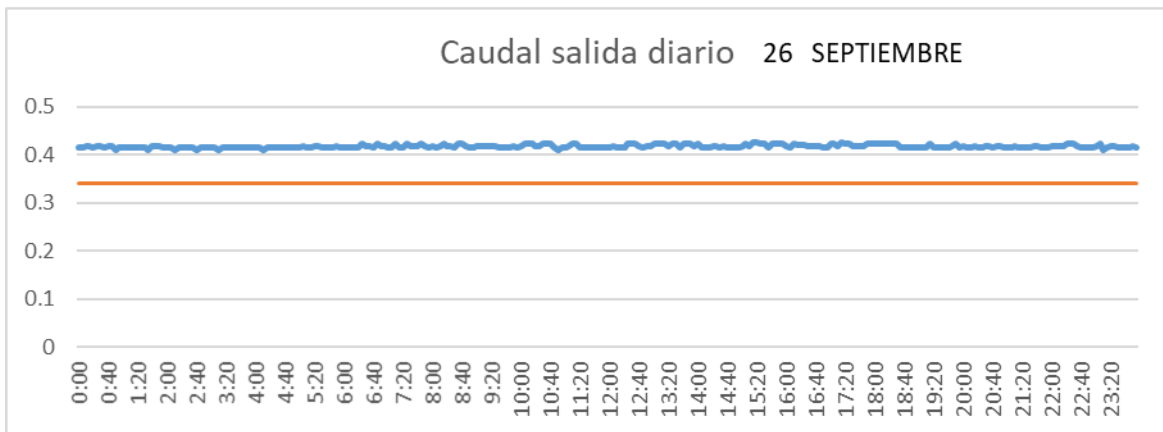
CUENCA



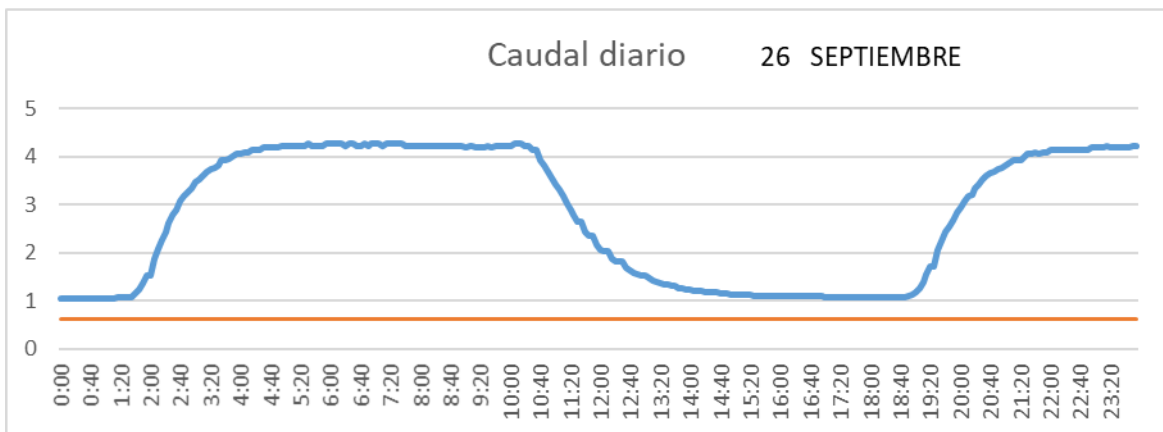
SAN LORENZO PARRILLA



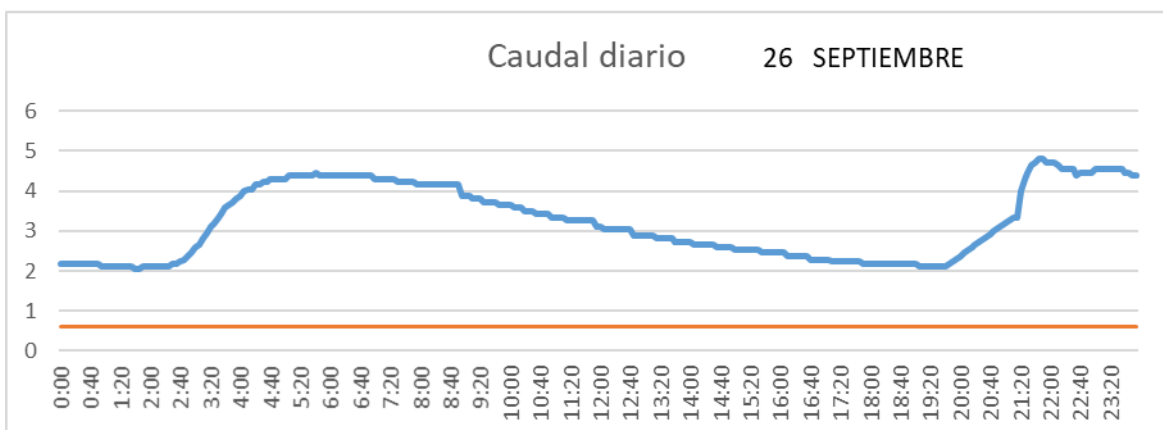
SALIDA TOBA



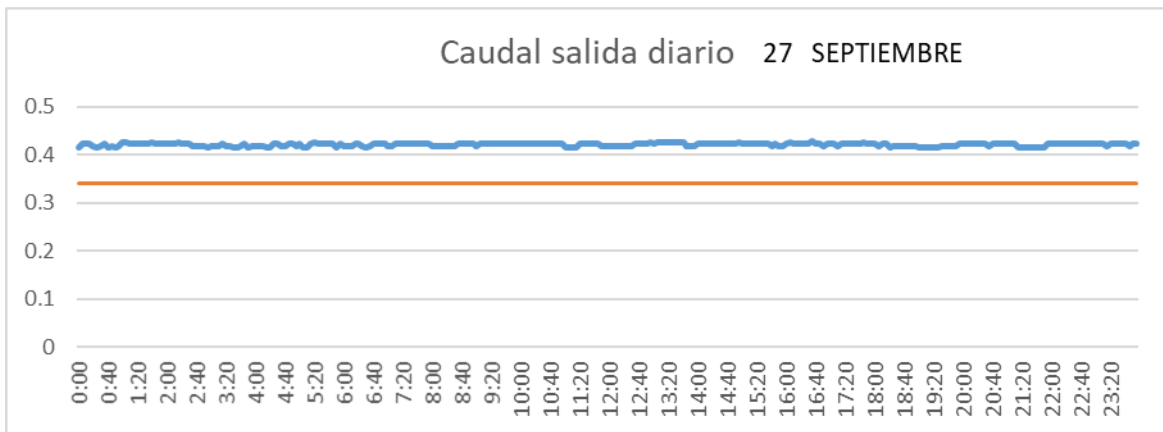
CUENCA



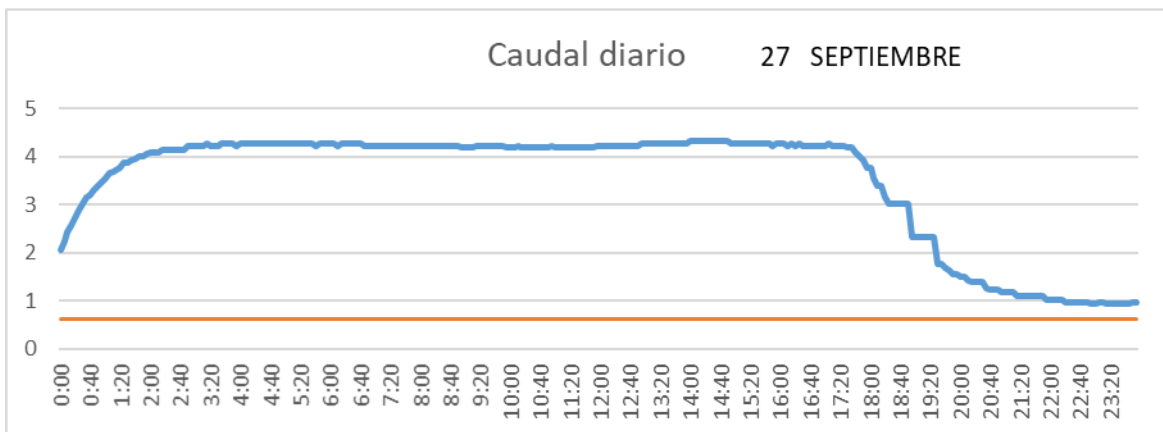
SAN LORENZO PARRILLA



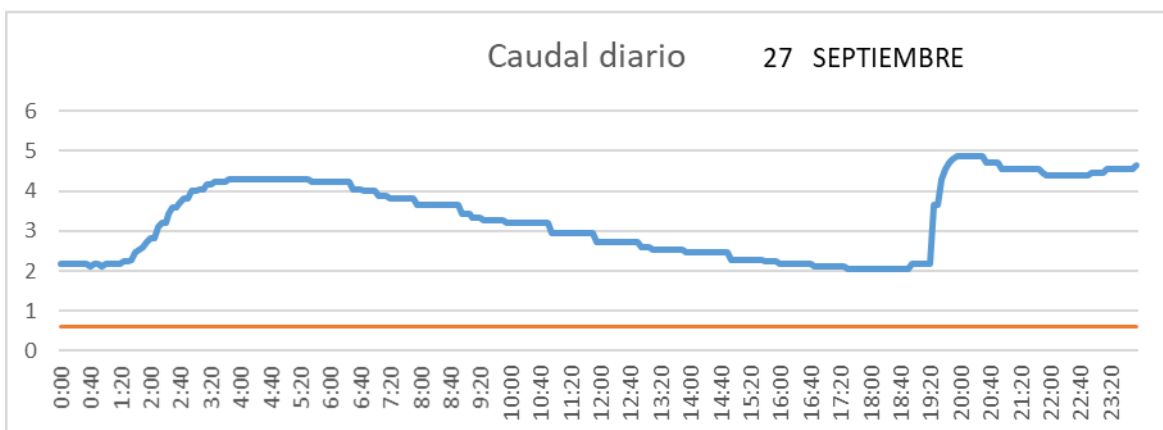
SALIDA TOBA



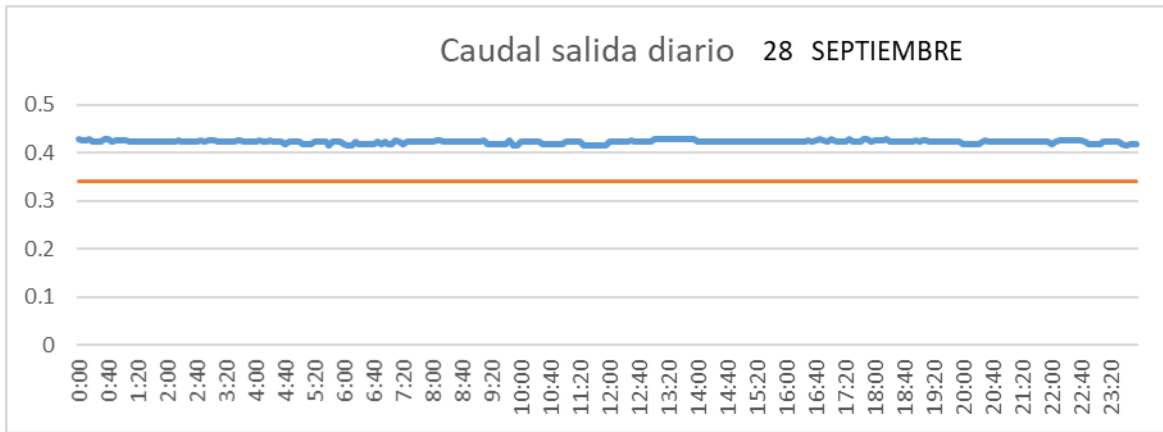
CUENCA



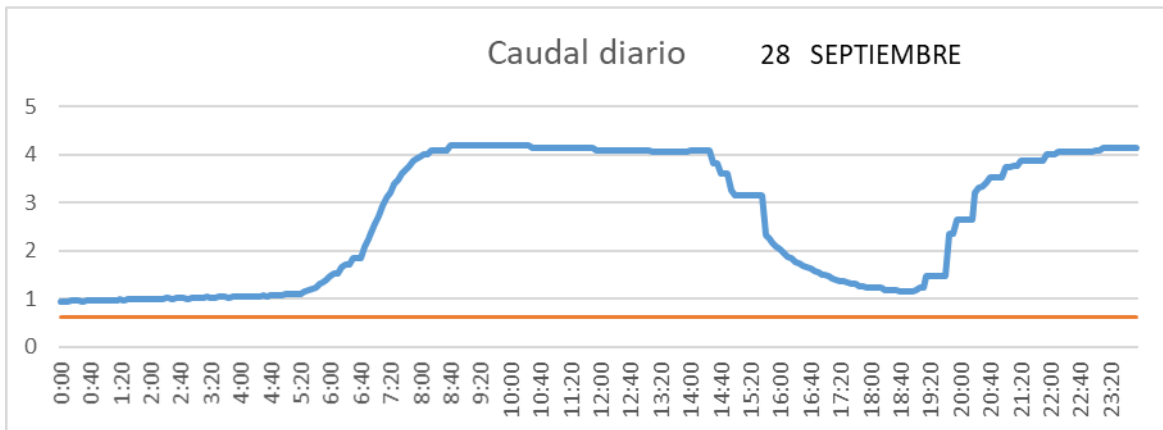
SAN LORENZO PARRILLA



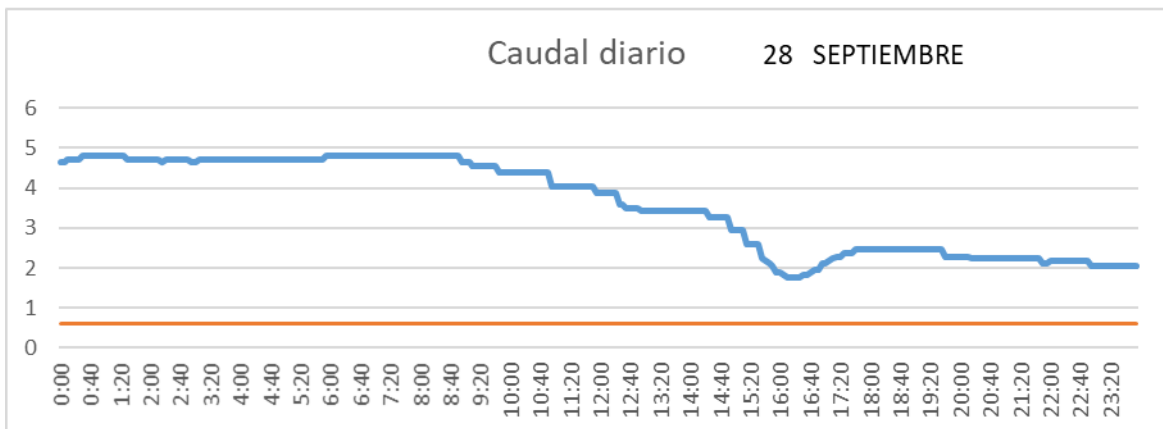
SALIDA TOBA



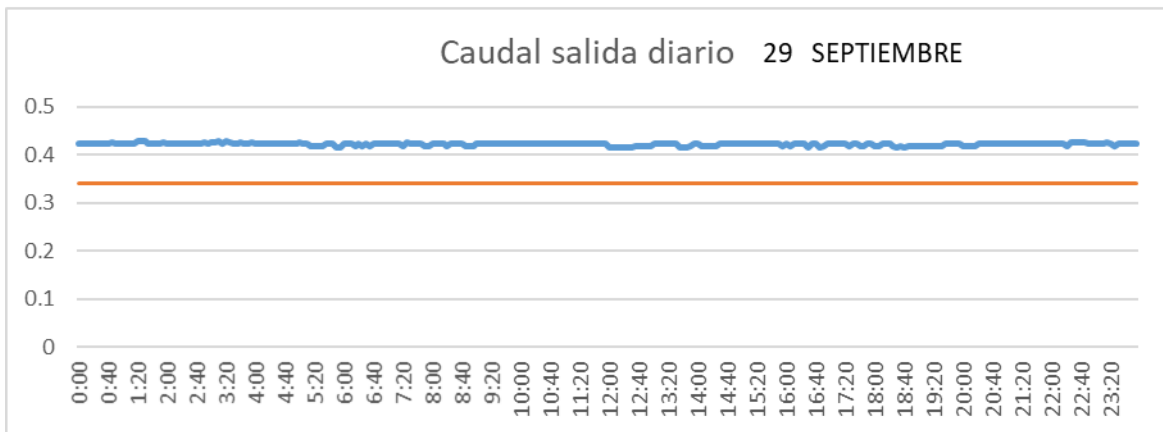
CUENCA



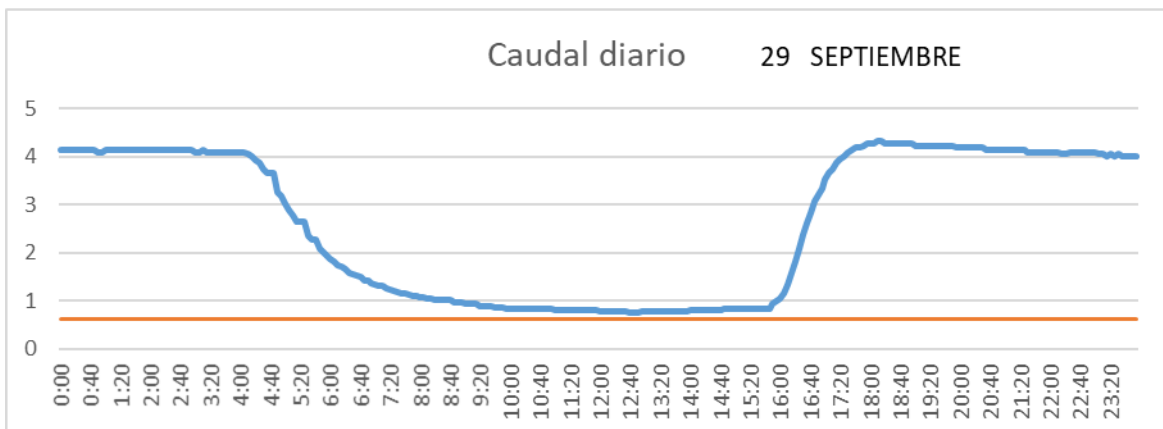
SAN LORENZO PARRILLA



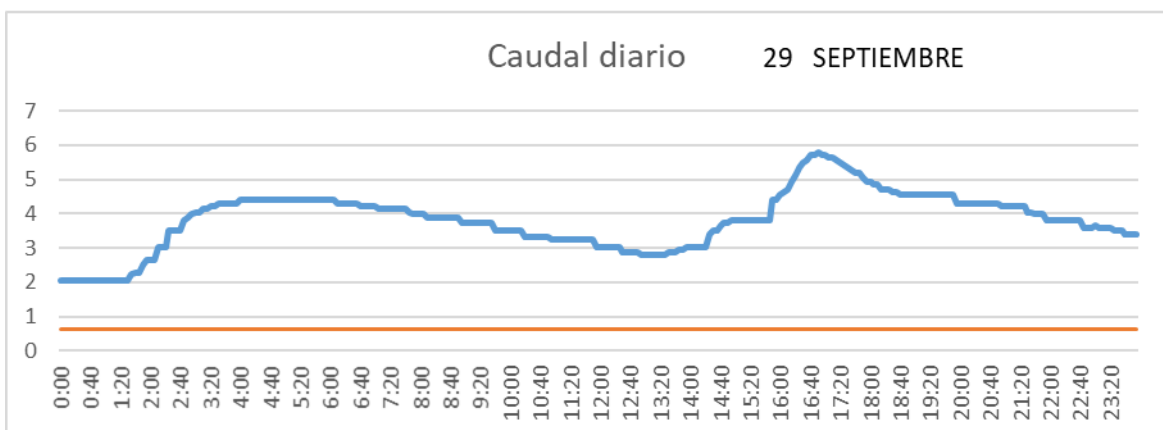
SALIDA TOBA



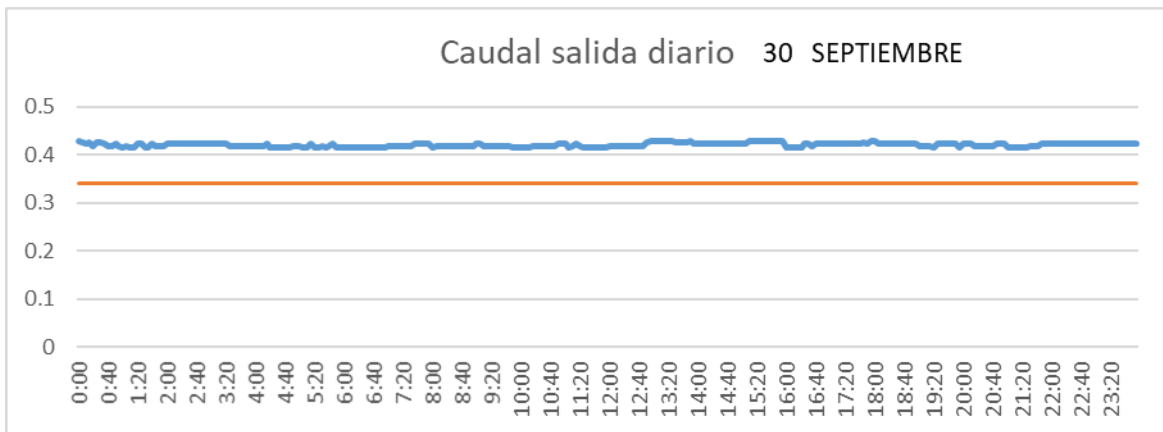
CUENCA



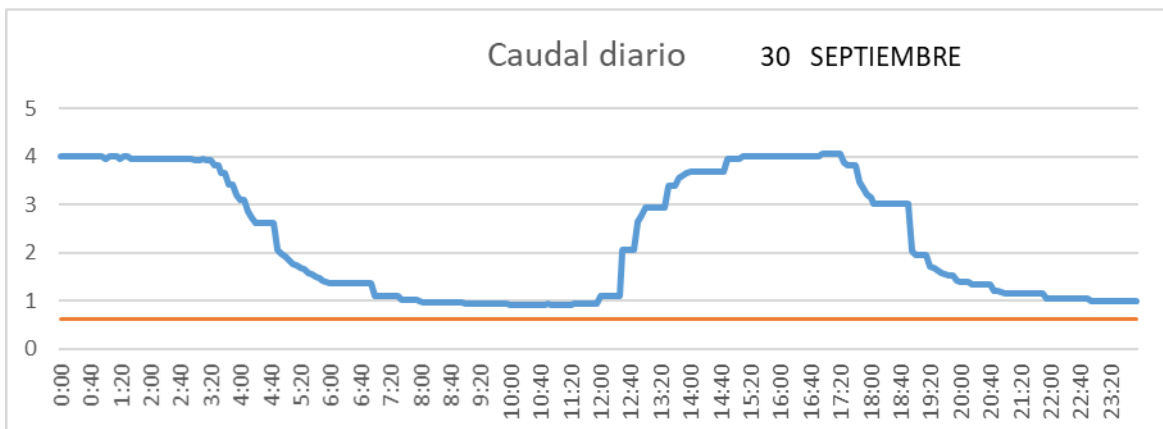
SAN LORENZO PARRILLA



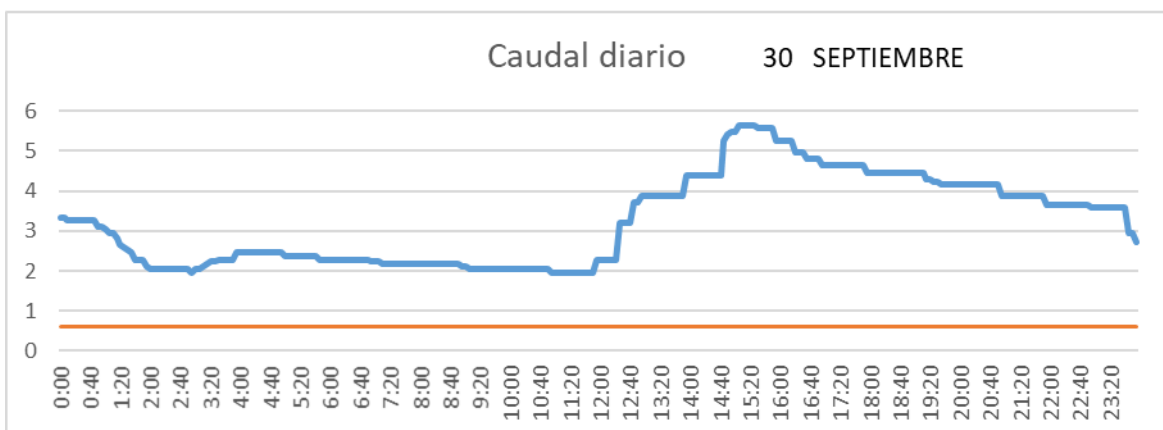
SALIDA TOBA



CUENCA

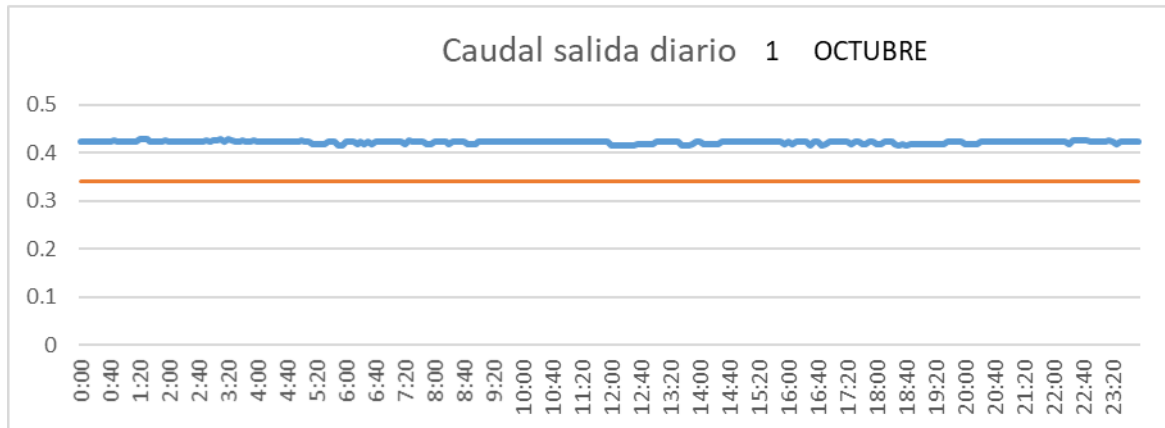


SAN LORENZO PARRILLA

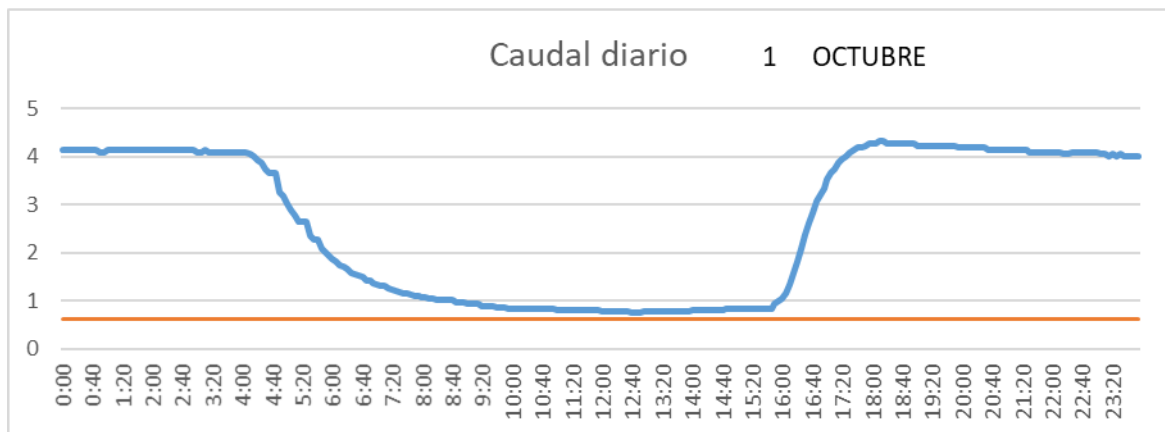


2.3.10 Octubre

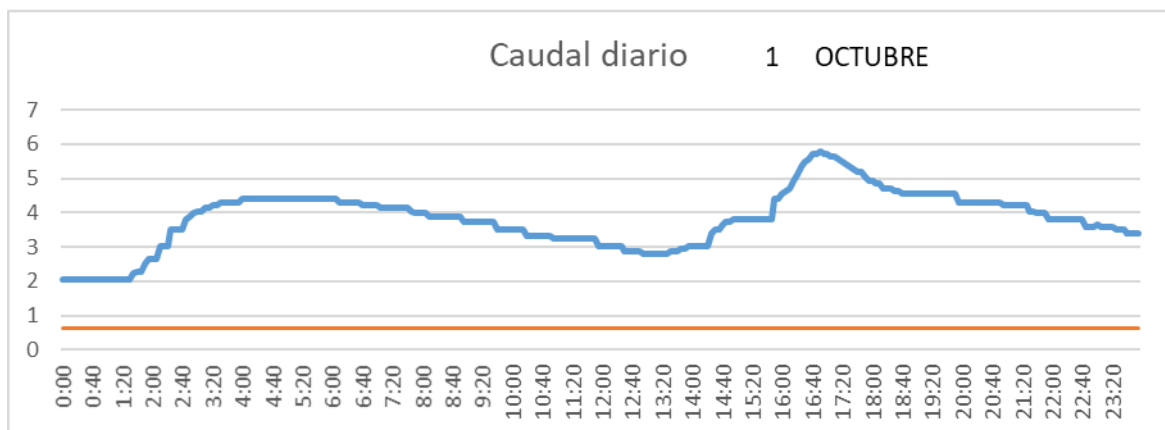
SALIDA TOBA



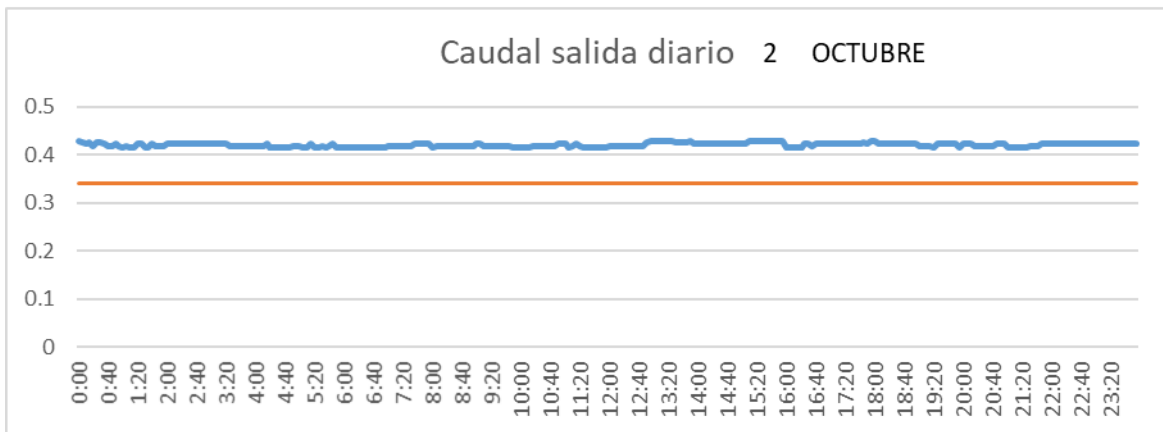
CUENCA



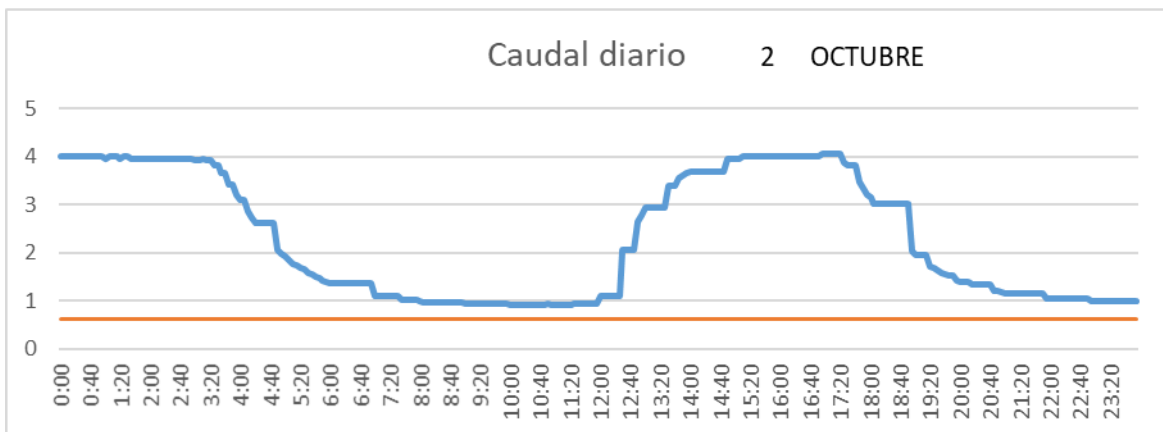
SAN LORENZO PARRILLA



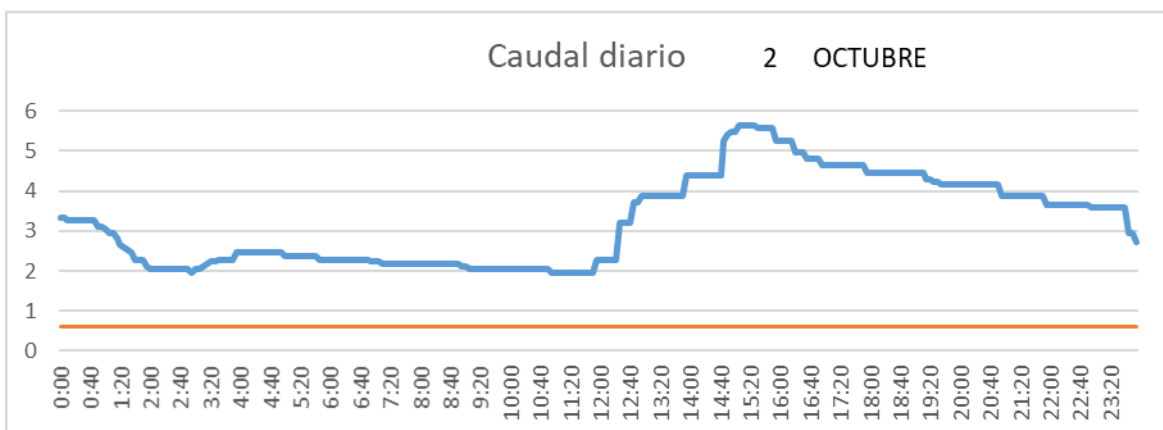
SALIDA TOBA



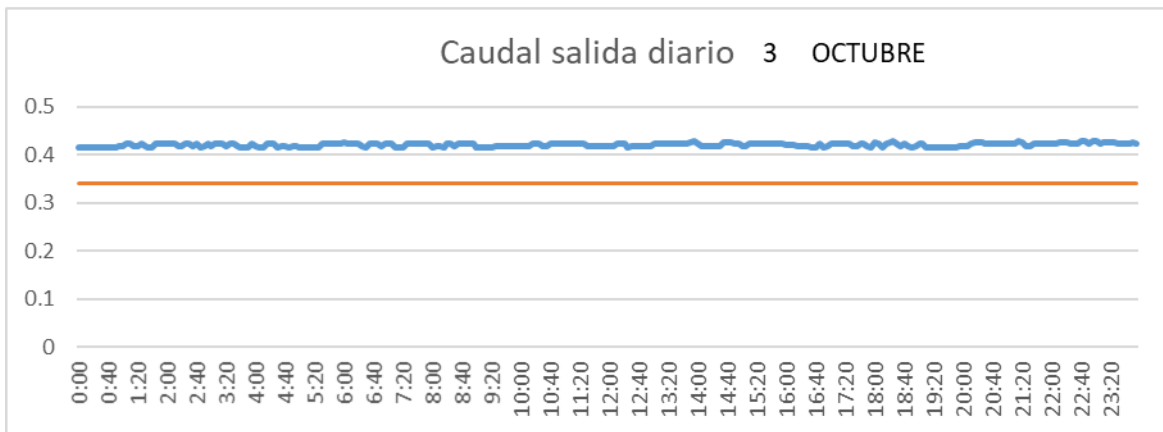
CUENCA



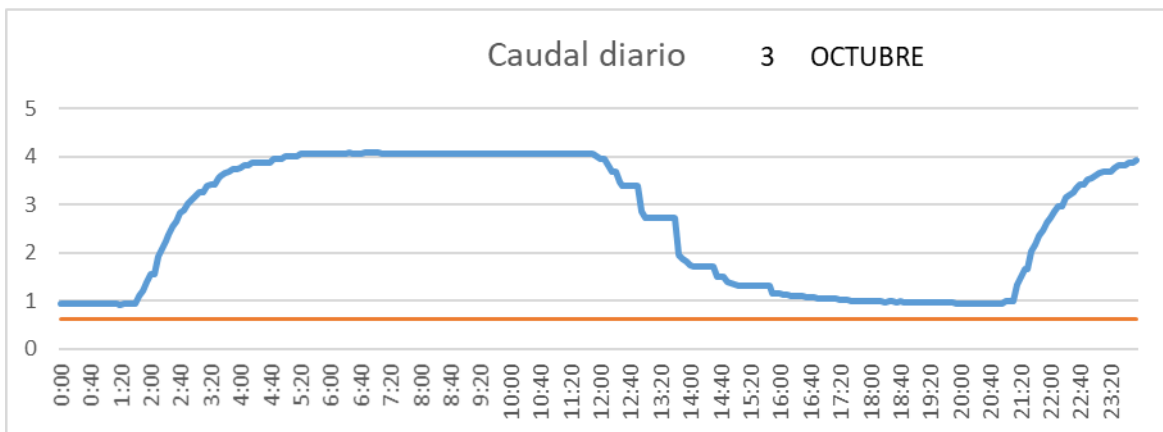
SAN LORENZO PARRILLA



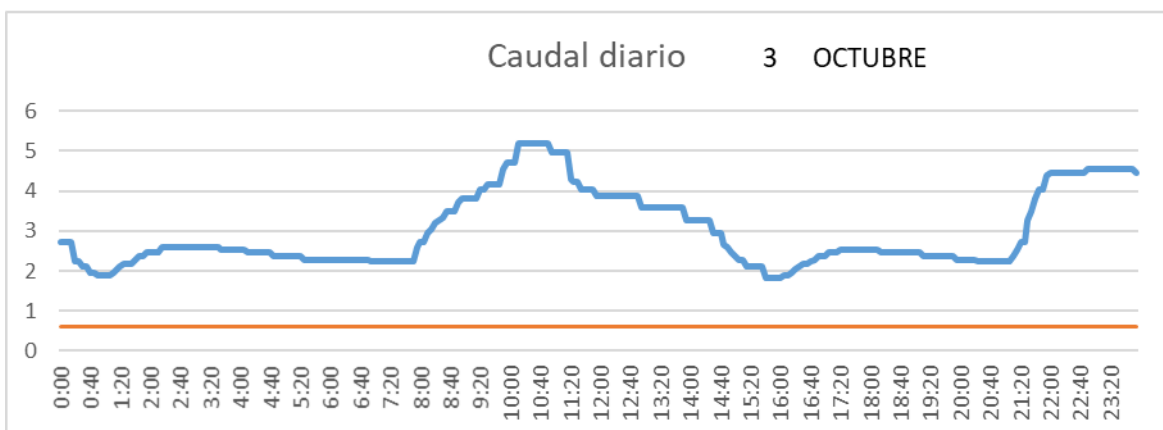
SALIDA TOBA



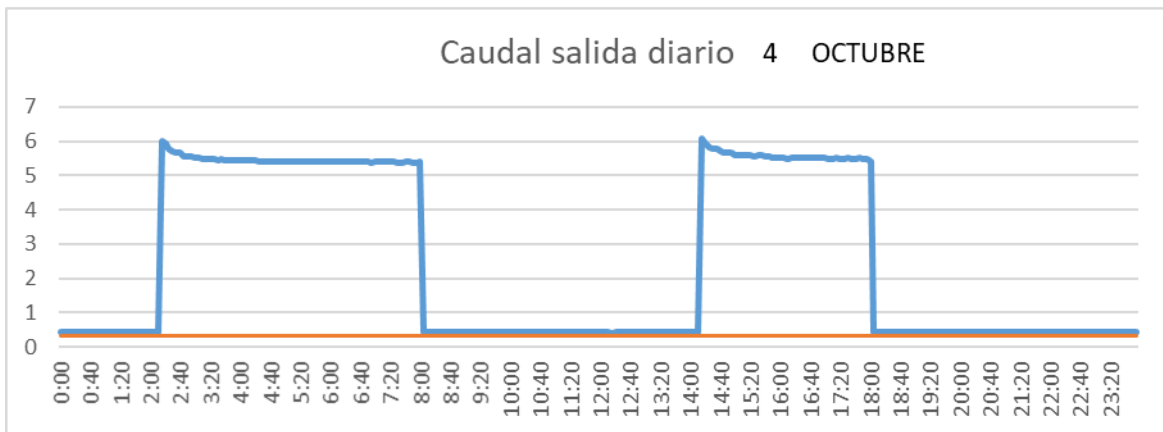
CUENCA



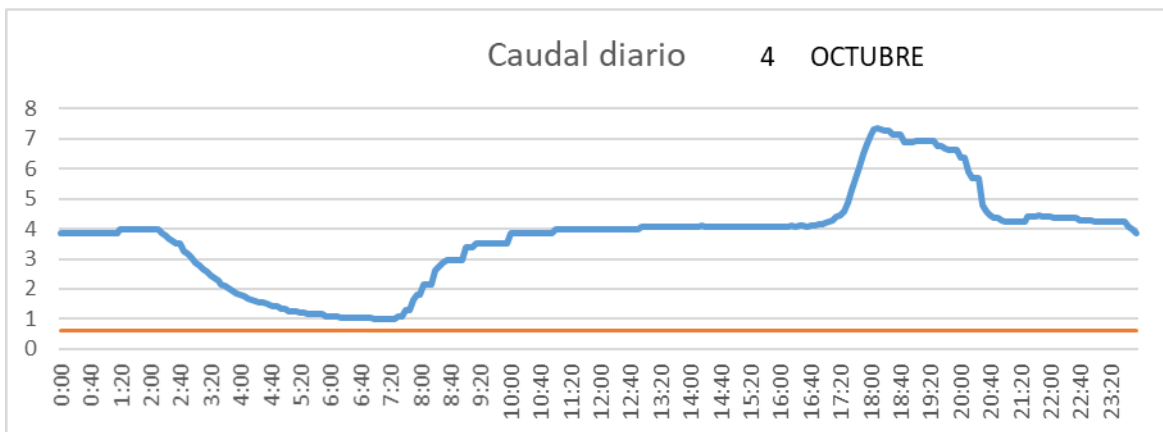
SAN LORENZO PARRILLA



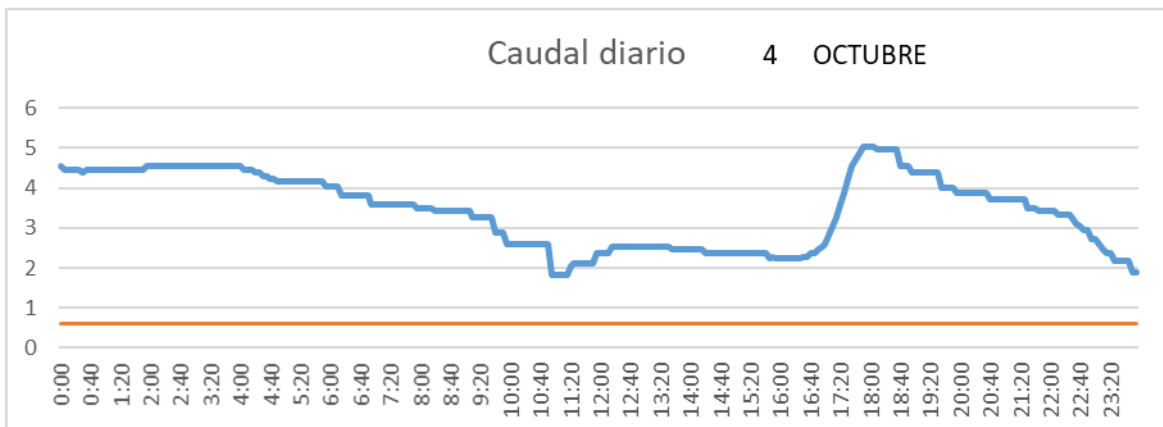
SALIDA TOBA



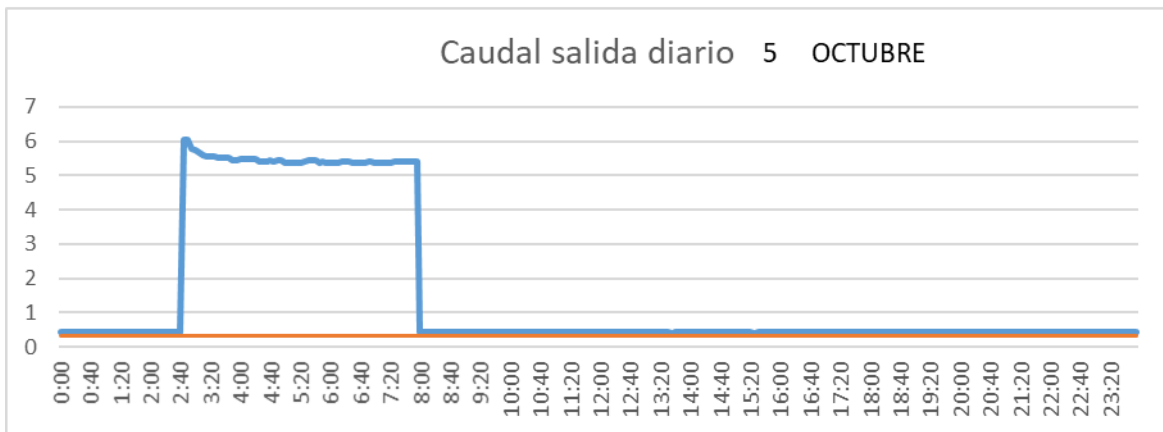
CUENCA



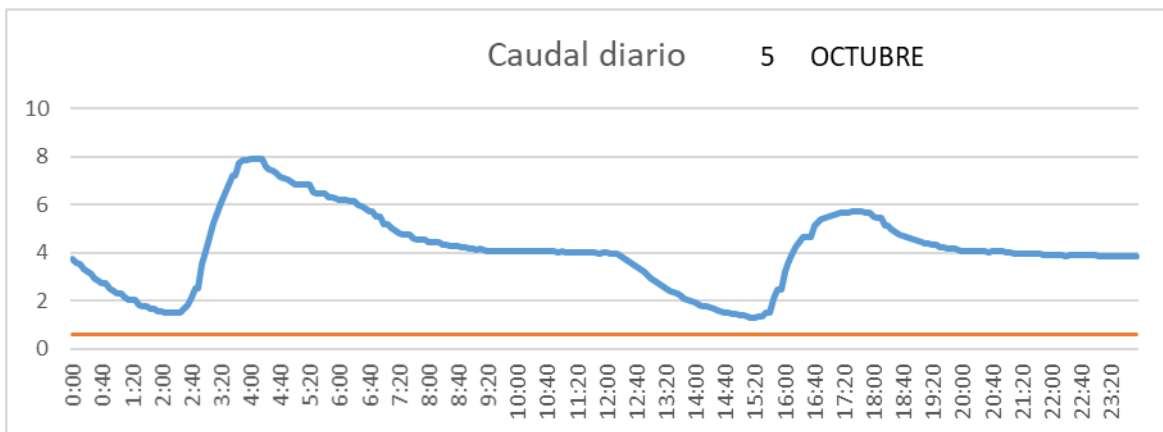
SAN LORENZO PARRILLA



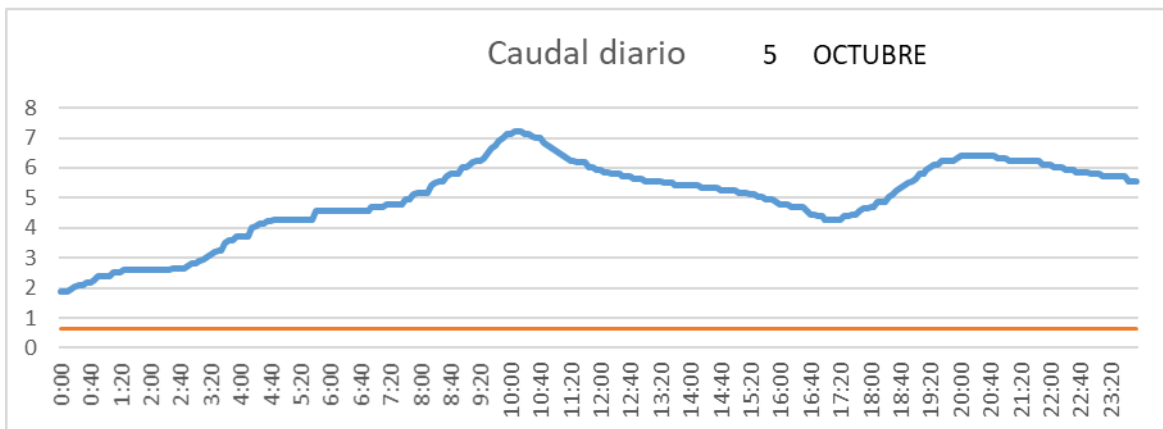
SALIDA TOBA



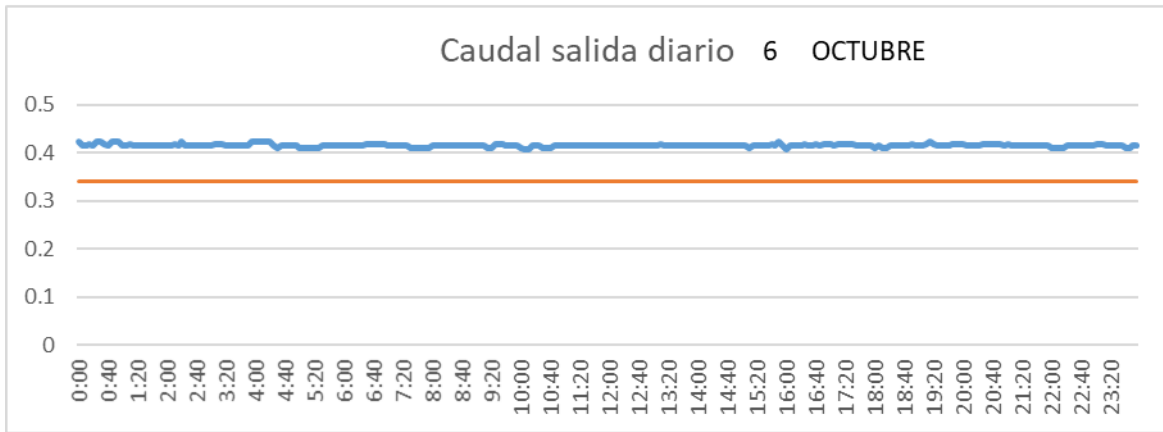
CUENCA



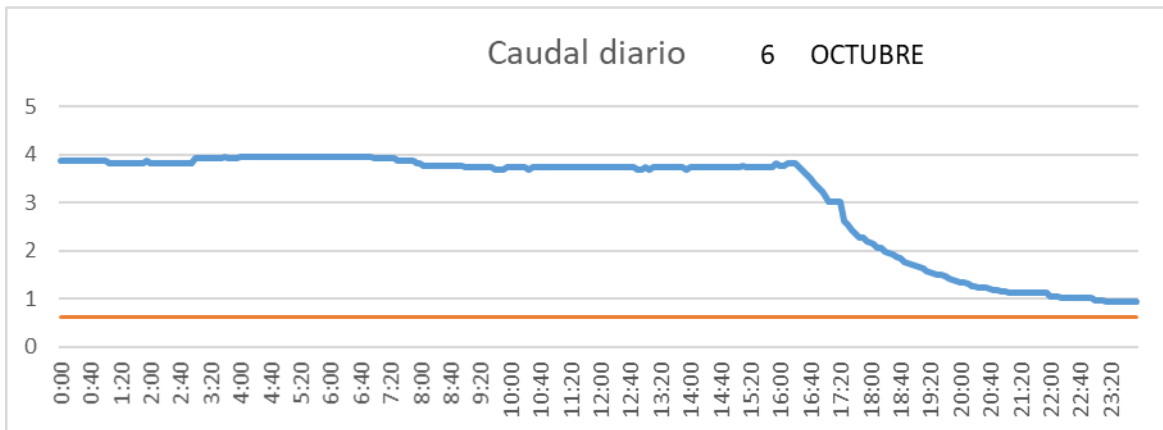
SAN LORENZO PARRILLA



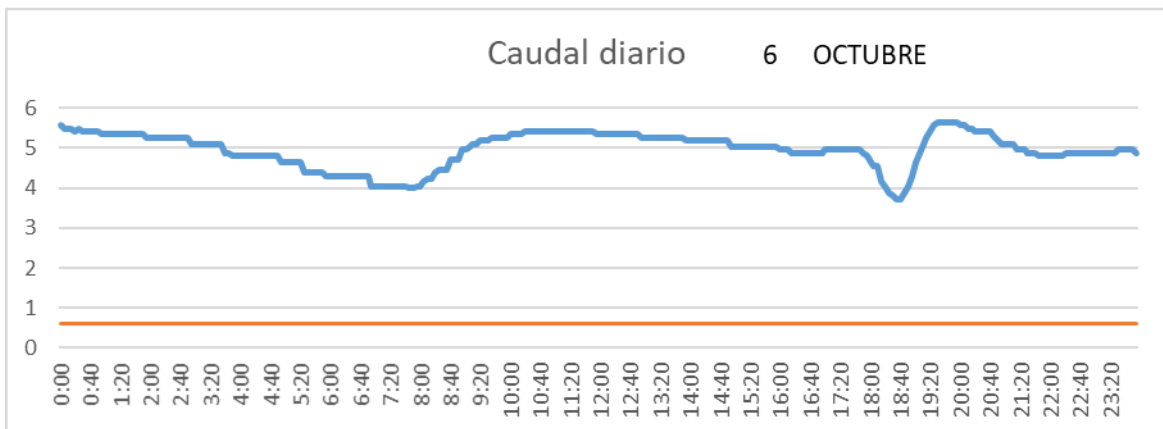
SALIDA TOBA



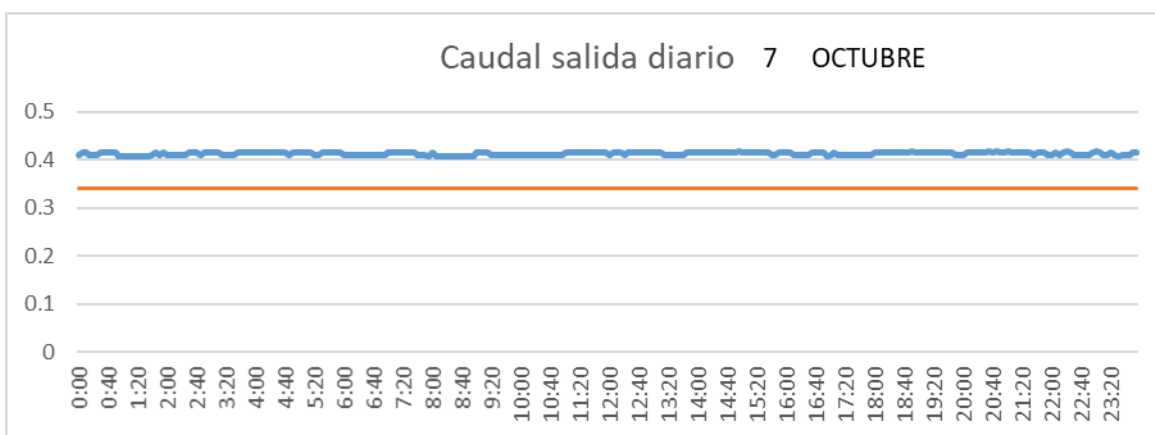
CUENCA



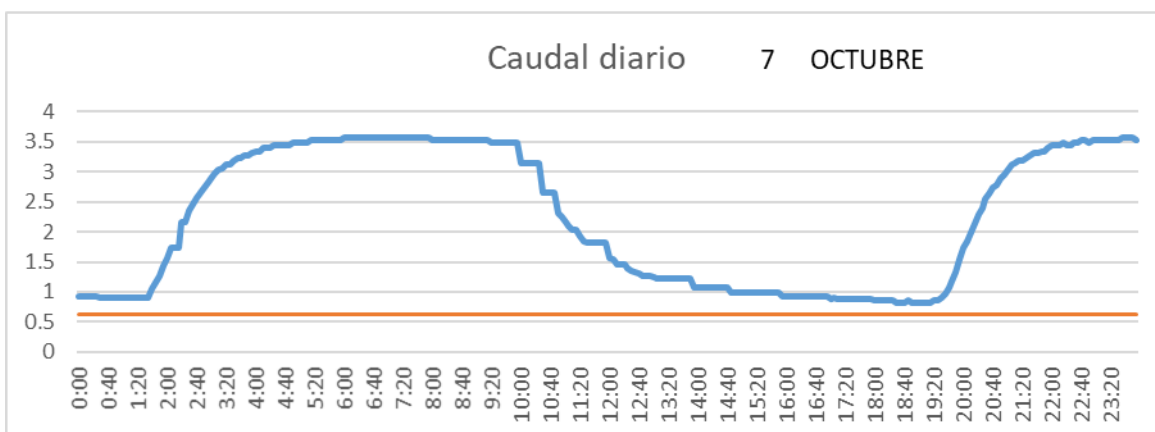
SAN LORENZO PARRILLA



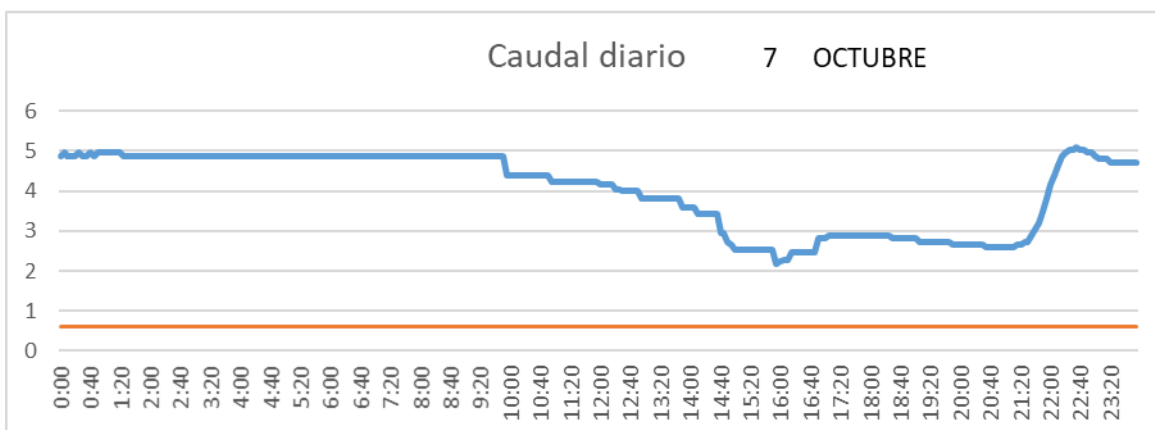
SALIDA TOBA



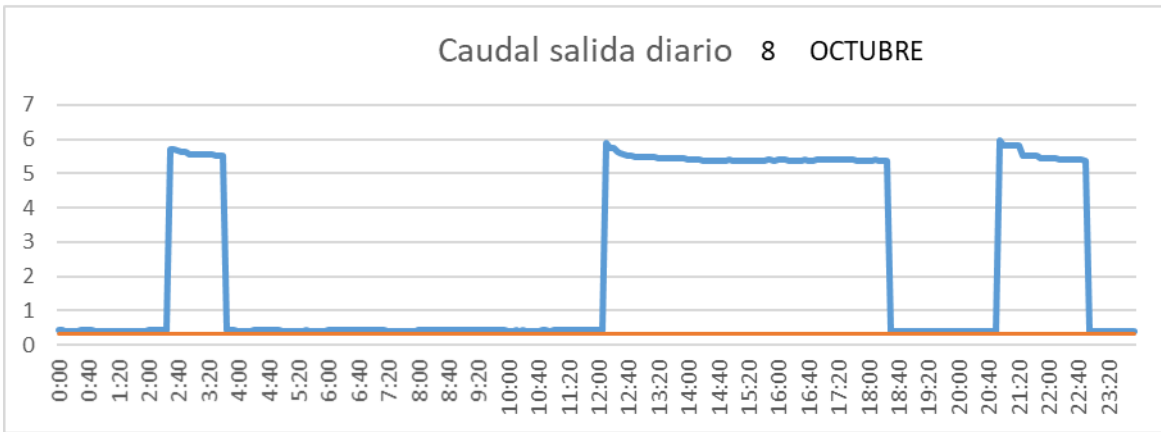
CUENCA



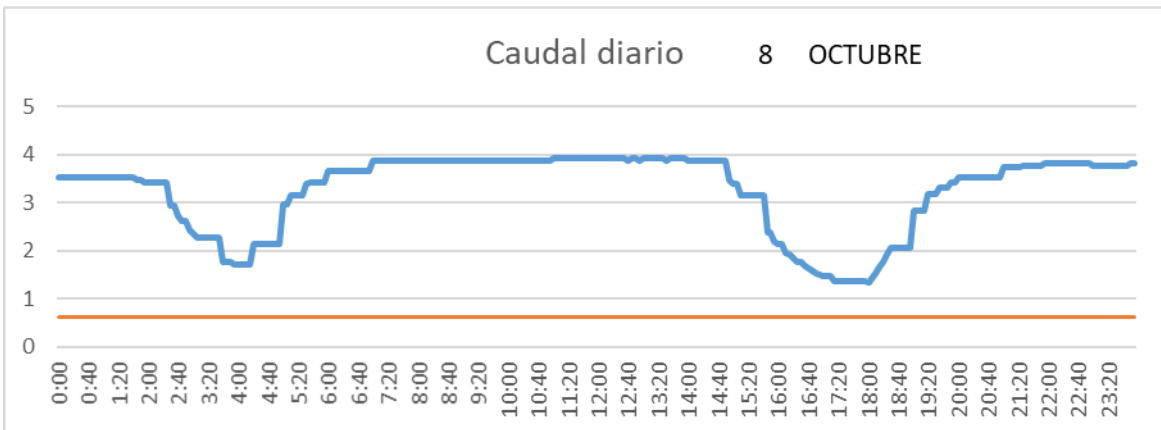
SAN LORENZO PARRILLA



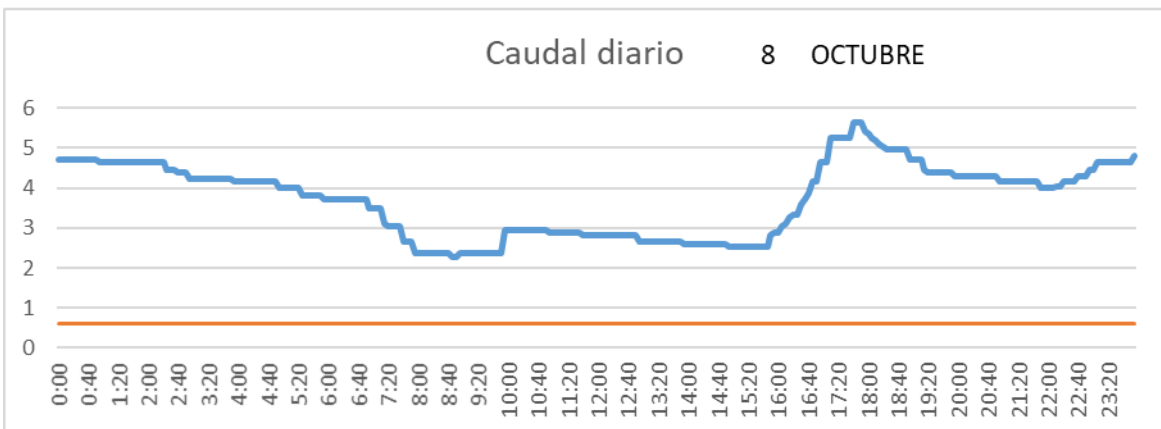
SALIDA TOBA



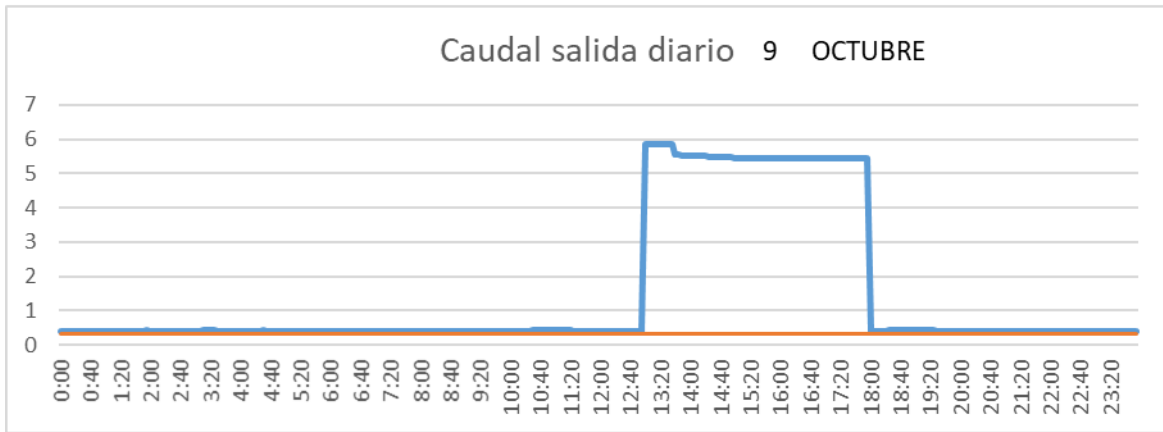
CUENCA



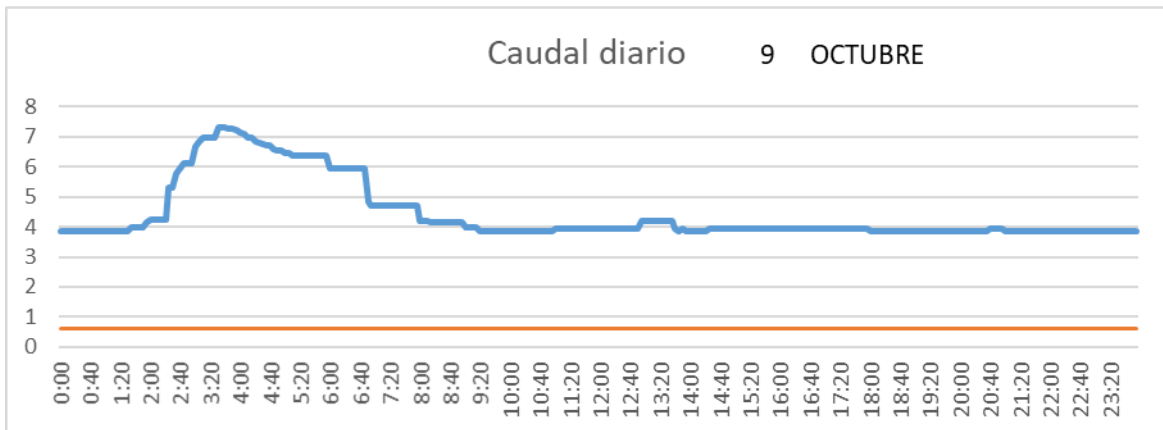
SAN LORENZO PARRILLA



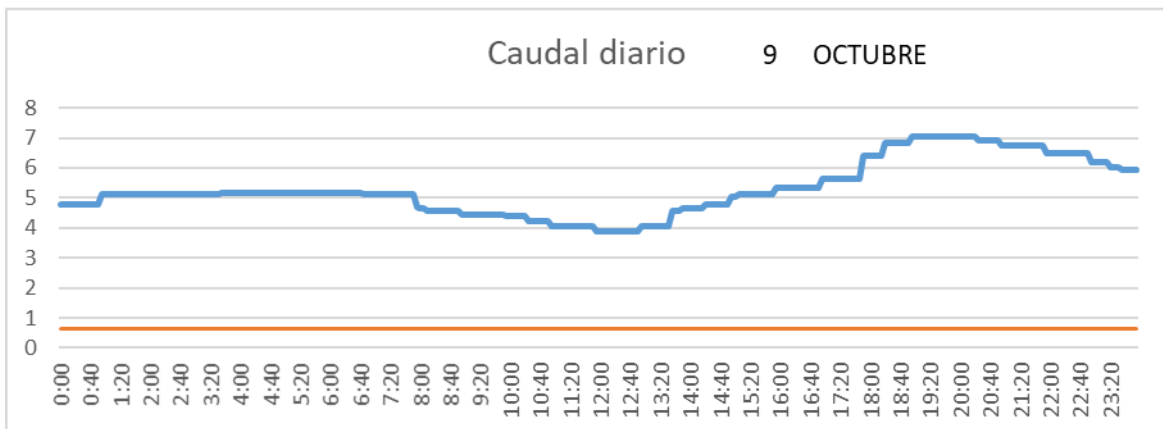
SALIDA TOBA



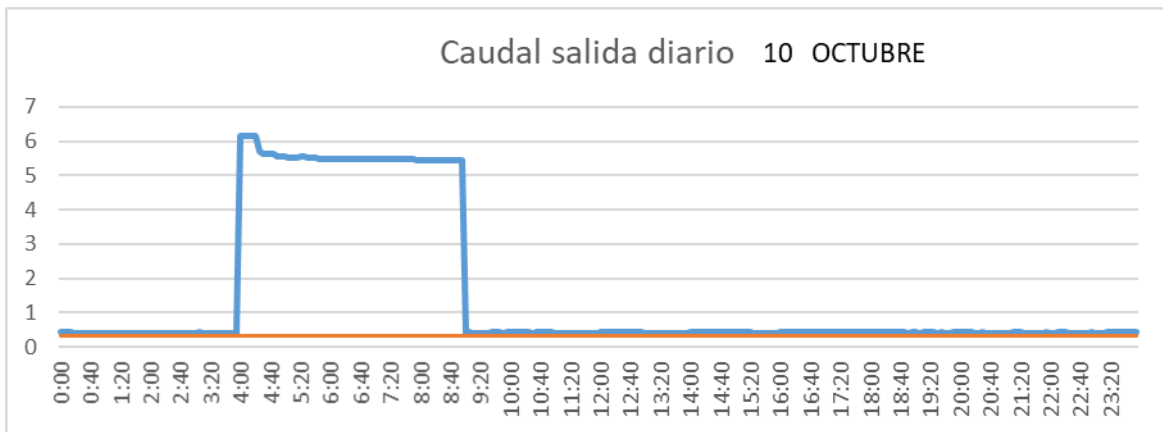
CUENCA



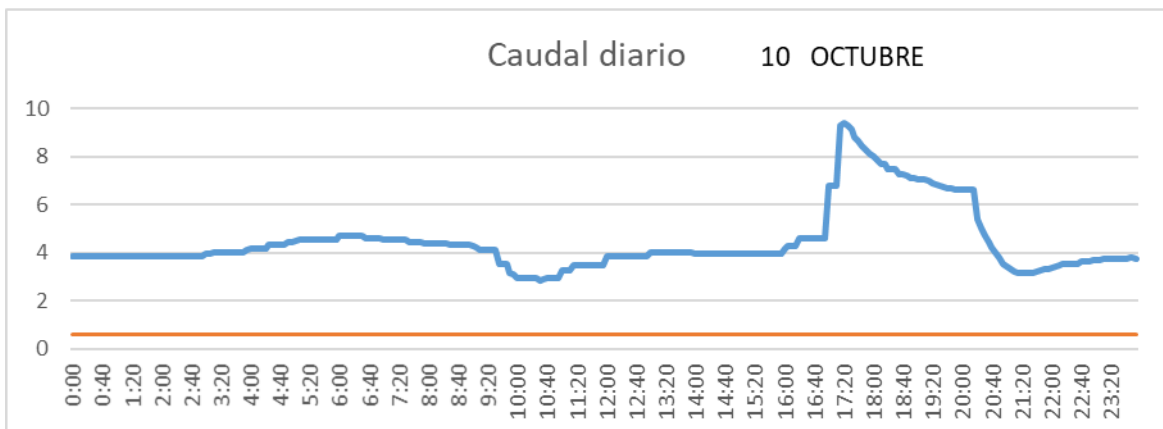
SAN LORENZO PARRILLA



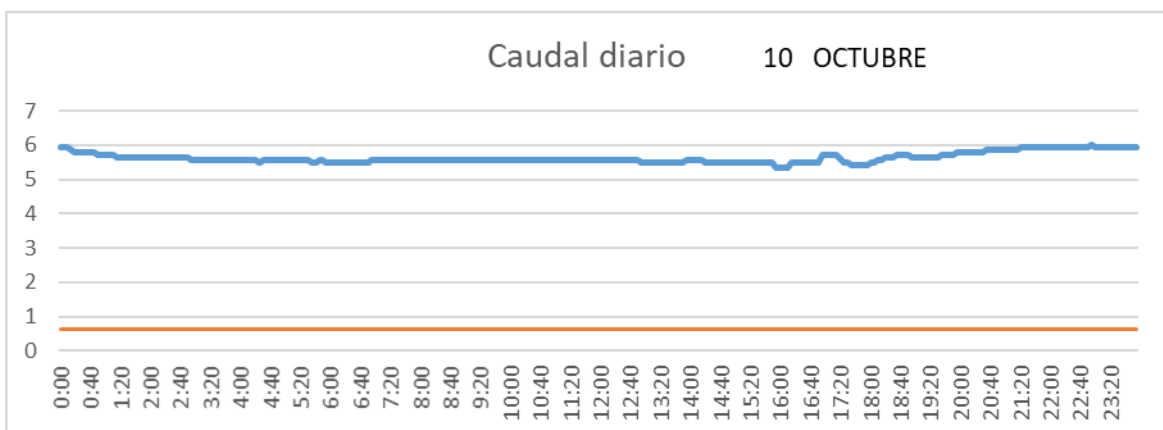
SALIDA TOBA



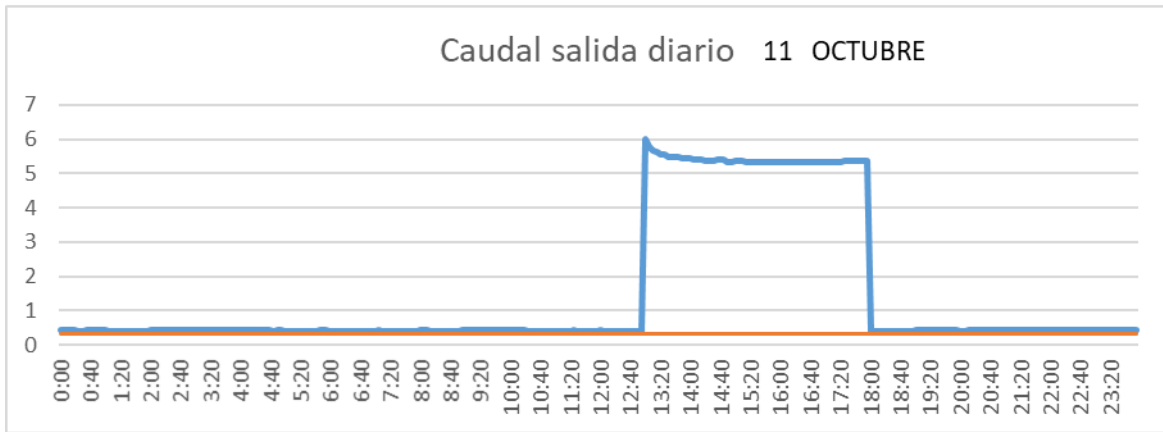
CUENCA



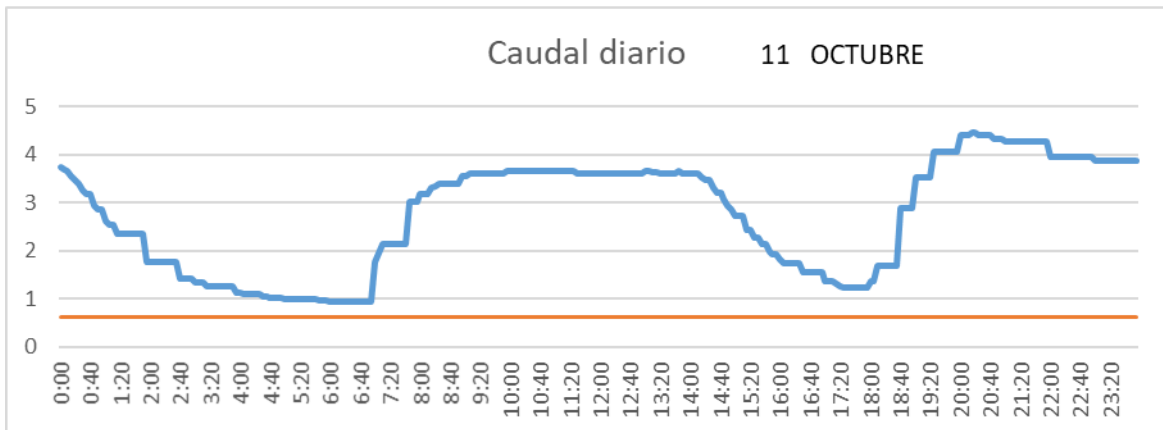
SAN LORENZO PARRILLA



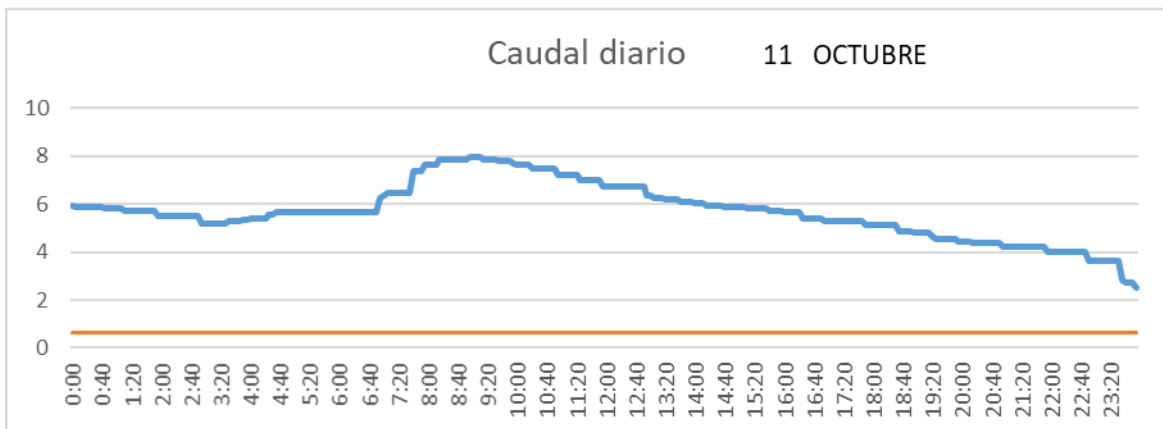
SALIDA TOBA



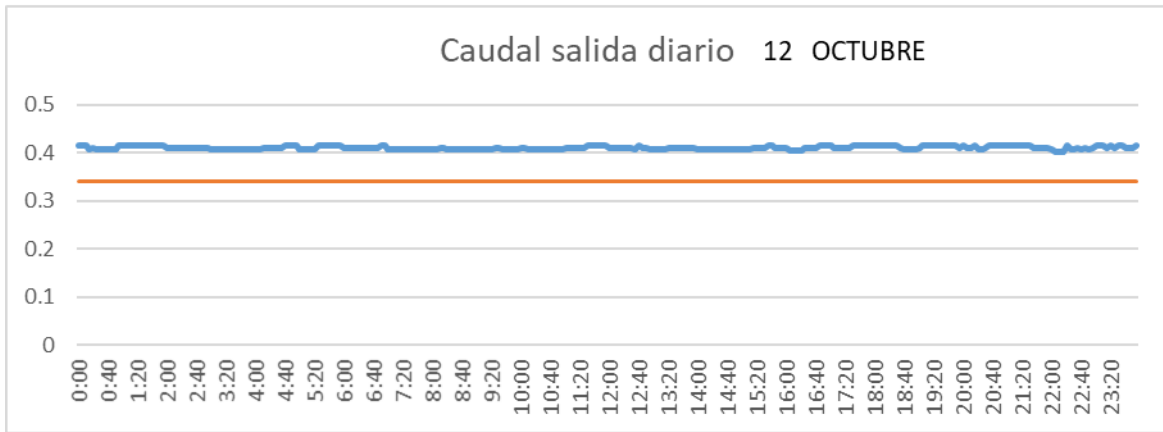
CUENCA



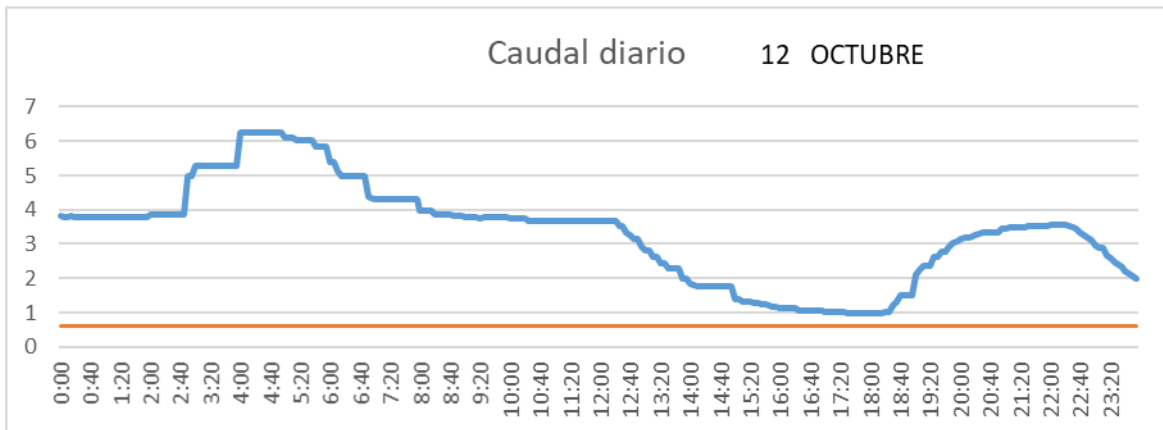
SAN LORENZO PARRILLA



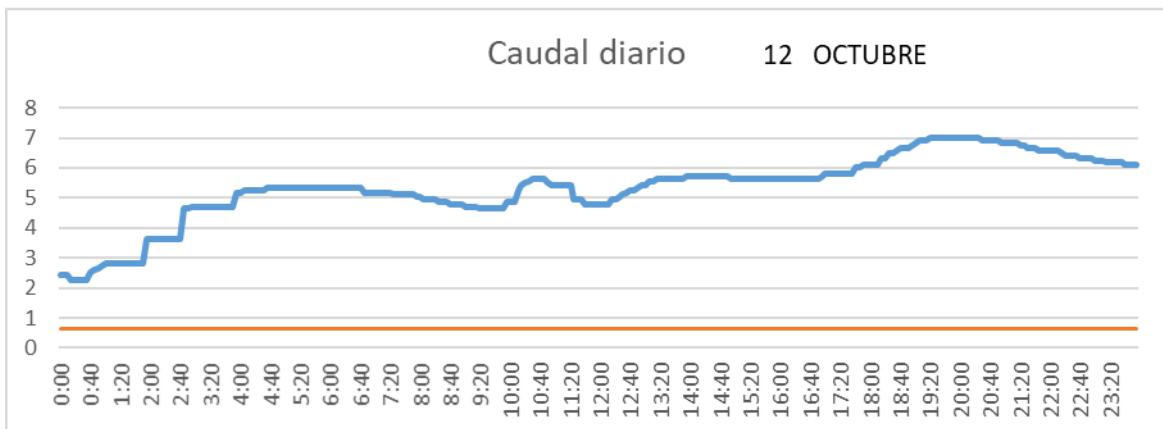
SALIDA TOBA



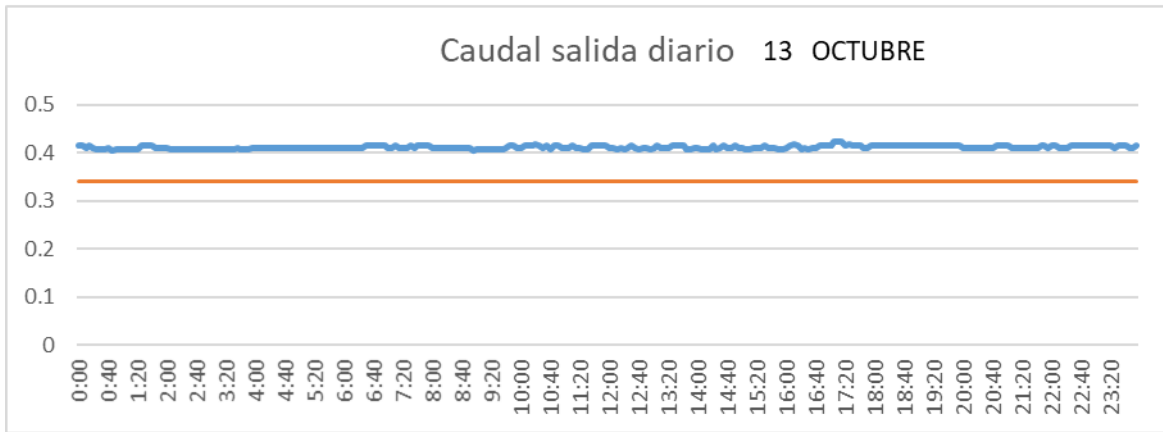
CUENCA



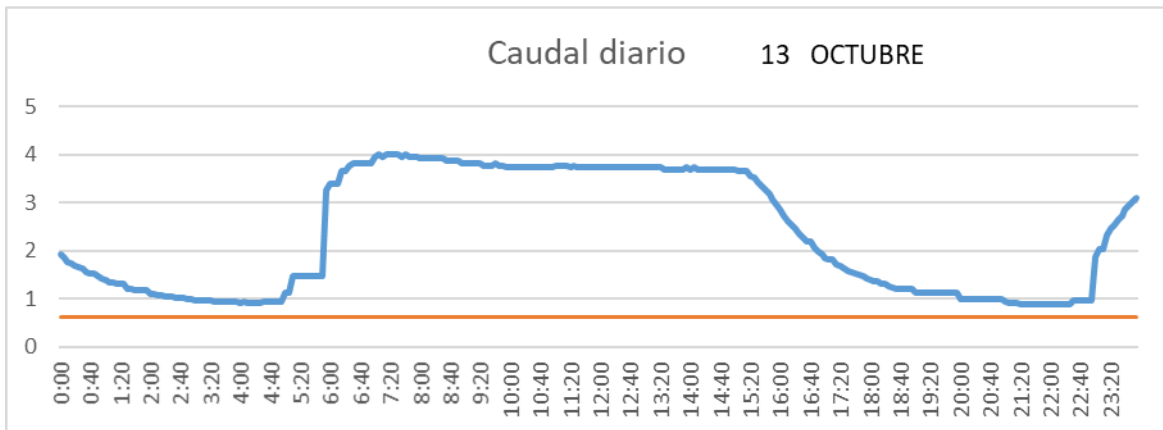
SAN LORENZO PARRILLA



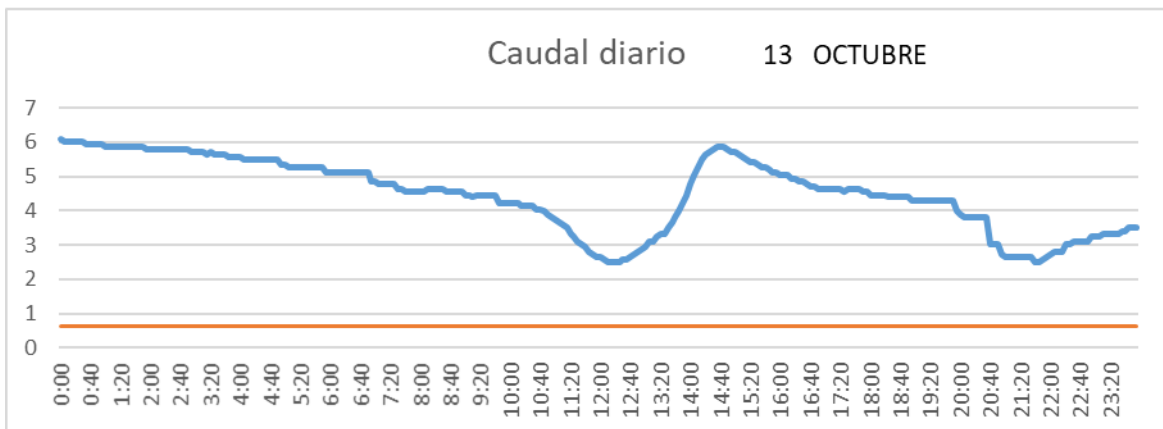
SALIDA TOBA



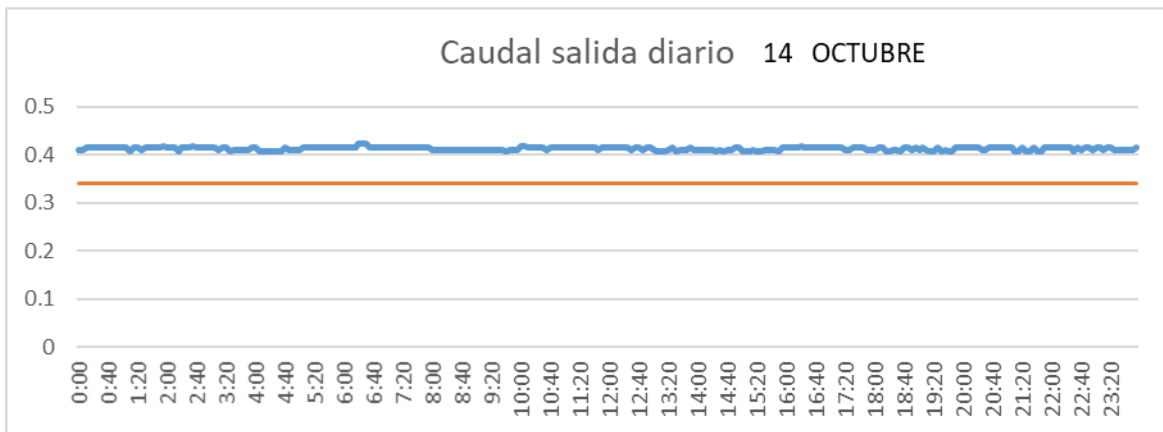
CUENCA



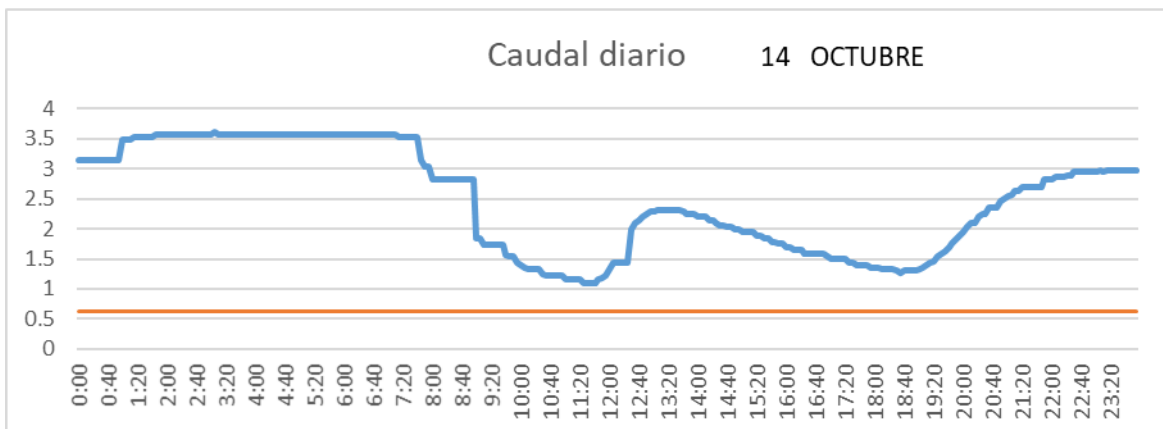
SAN LORENZO PARRILLA



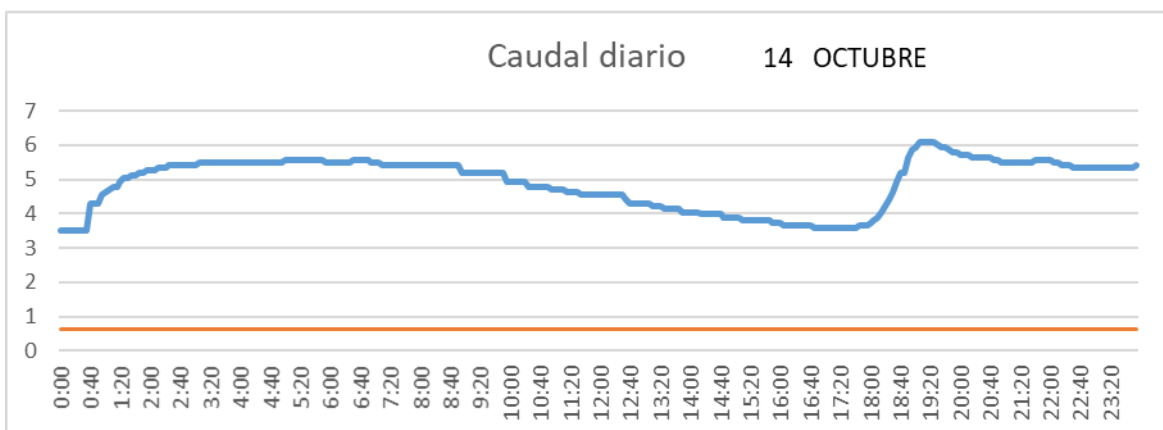
SALIDA TOBA



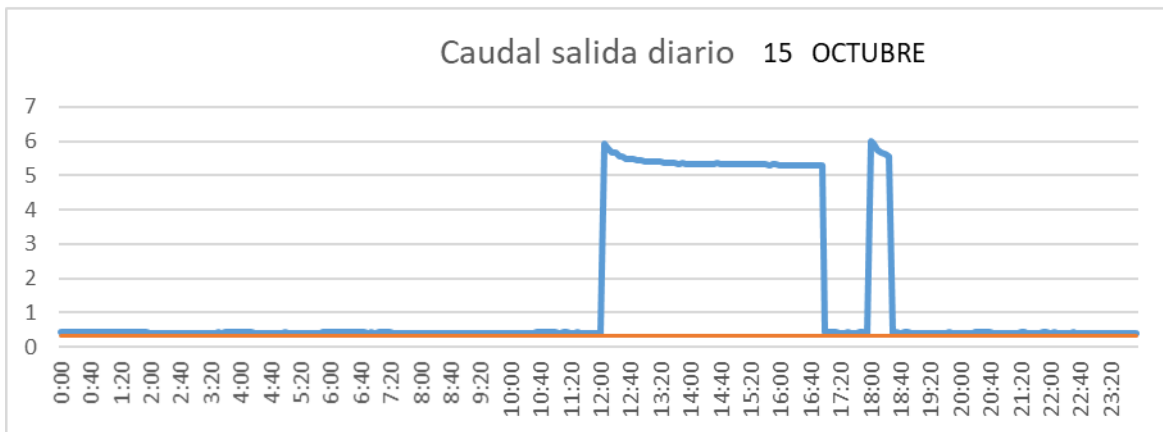
CUENCA



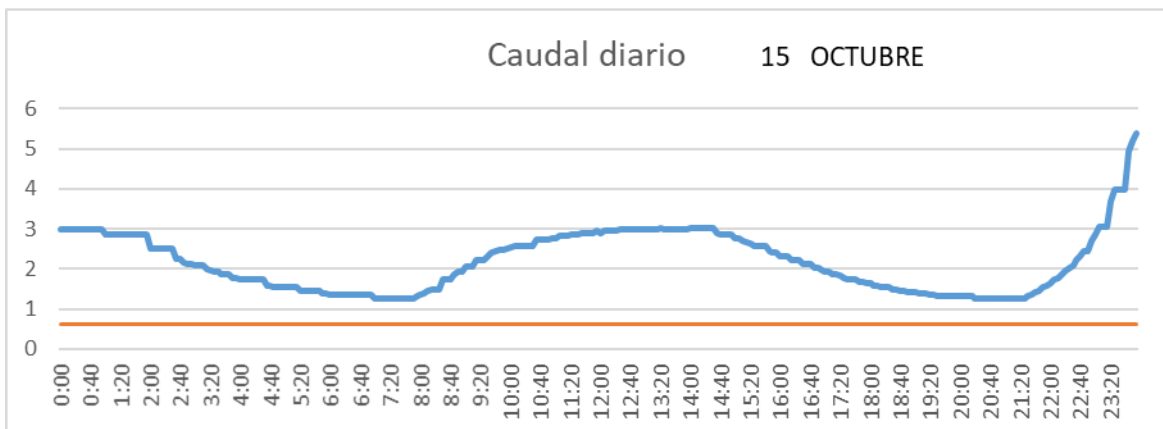
SAN LORENZO PARRILLA



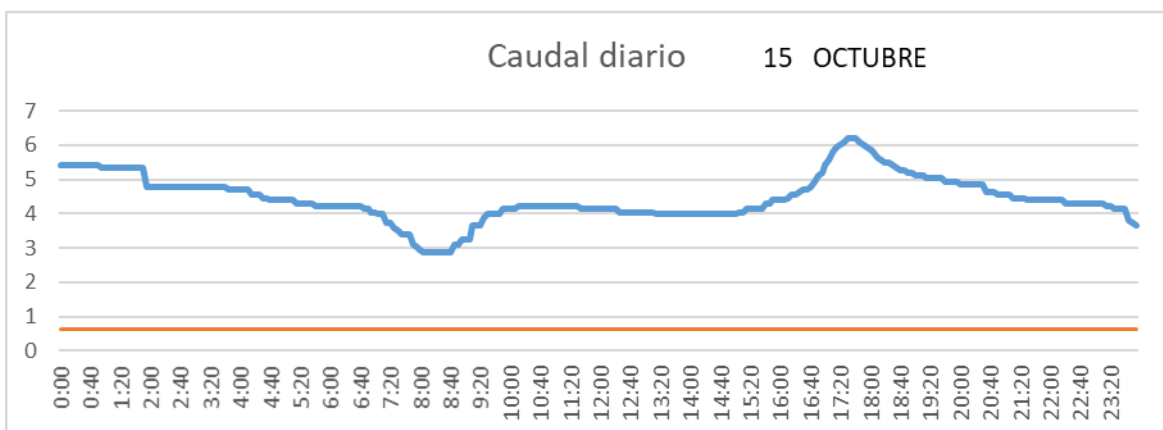
SALIDA TOBA



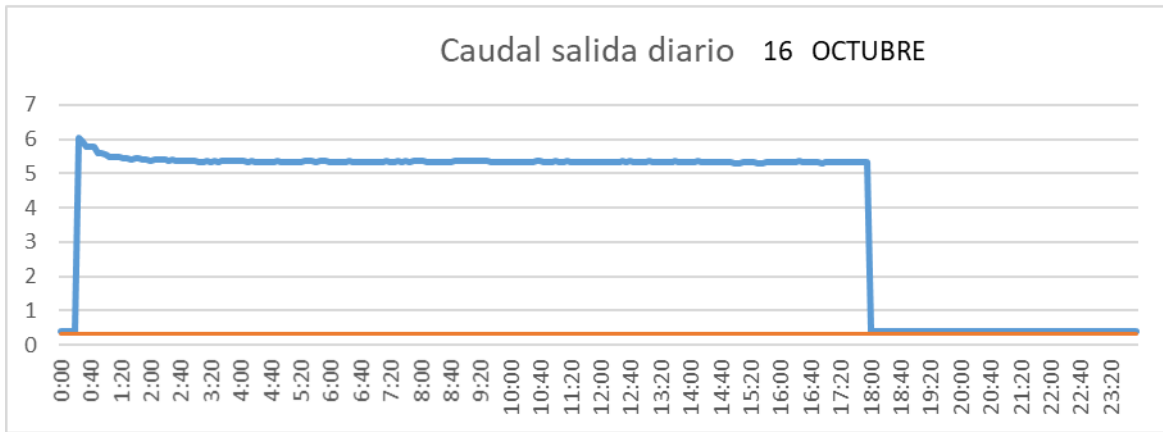
CUENCA



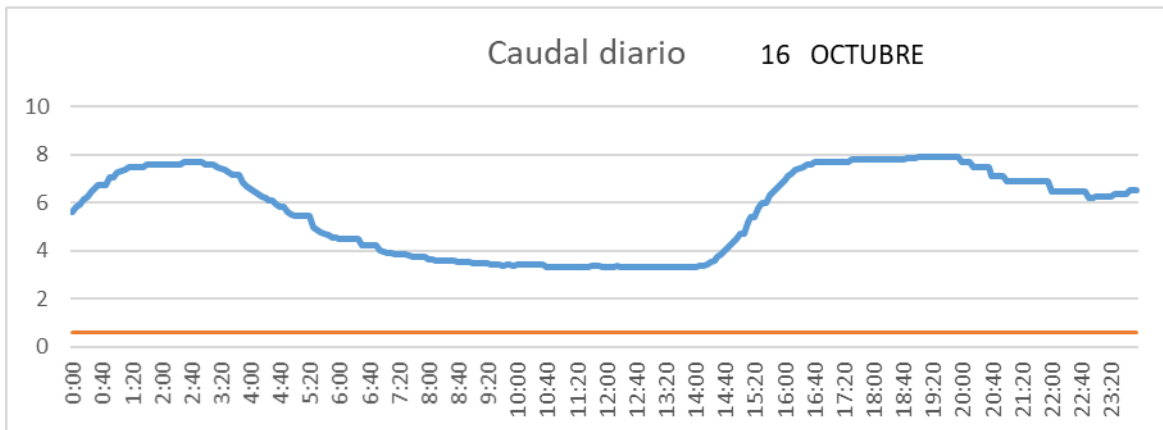
SAN LORENZO PARRILLA



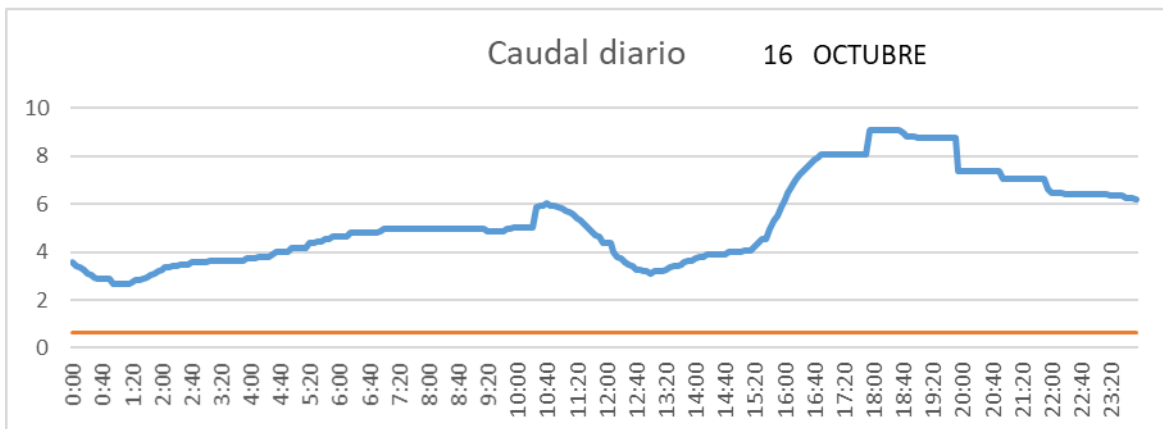
SALIDA TOBA



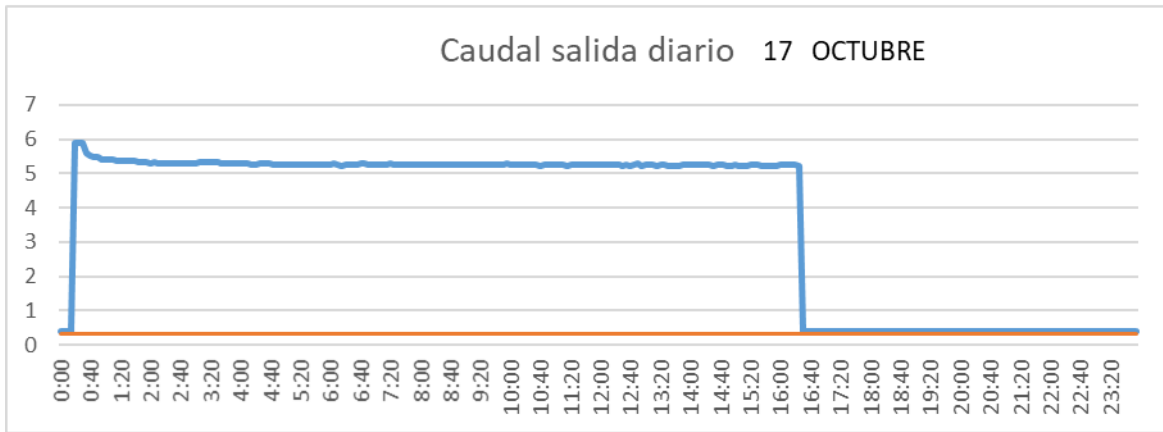
CUENCA



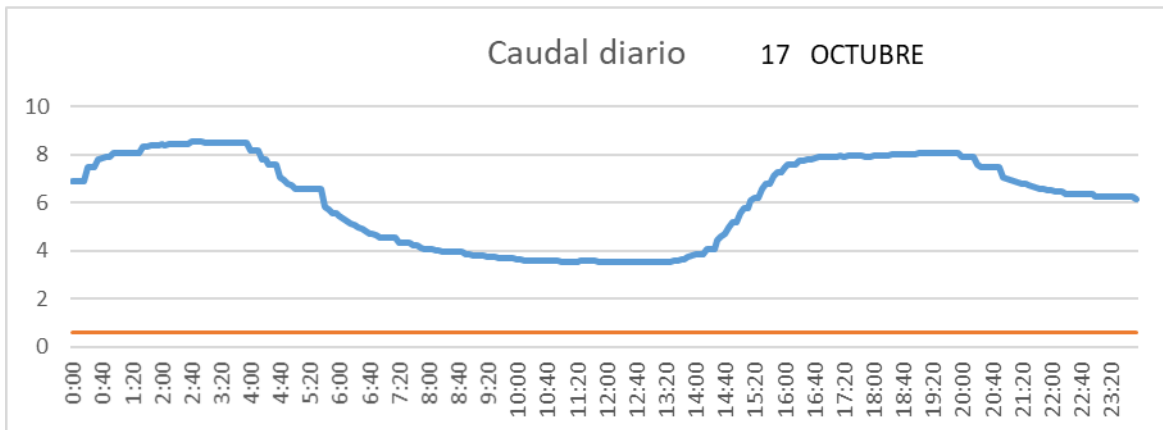
SAN LORENZO PARRILLA



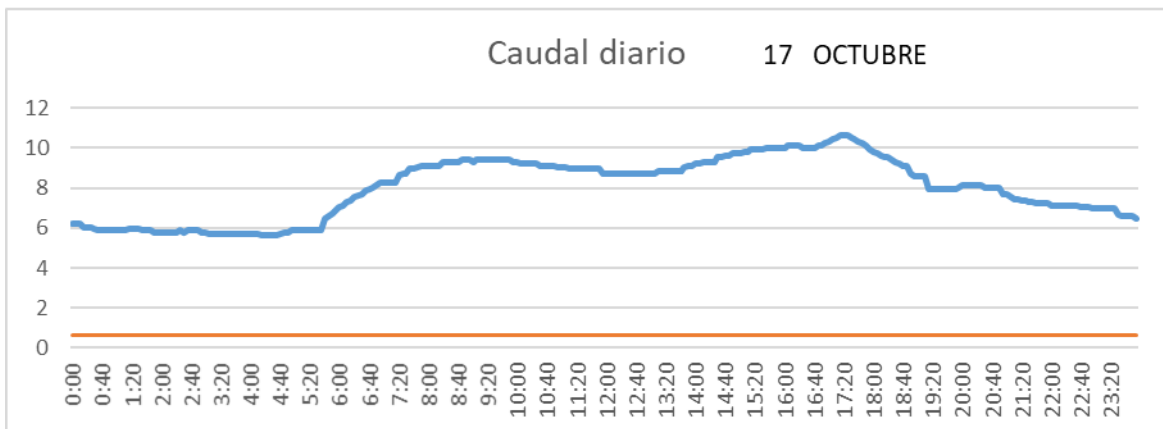
SALIDA TOBA



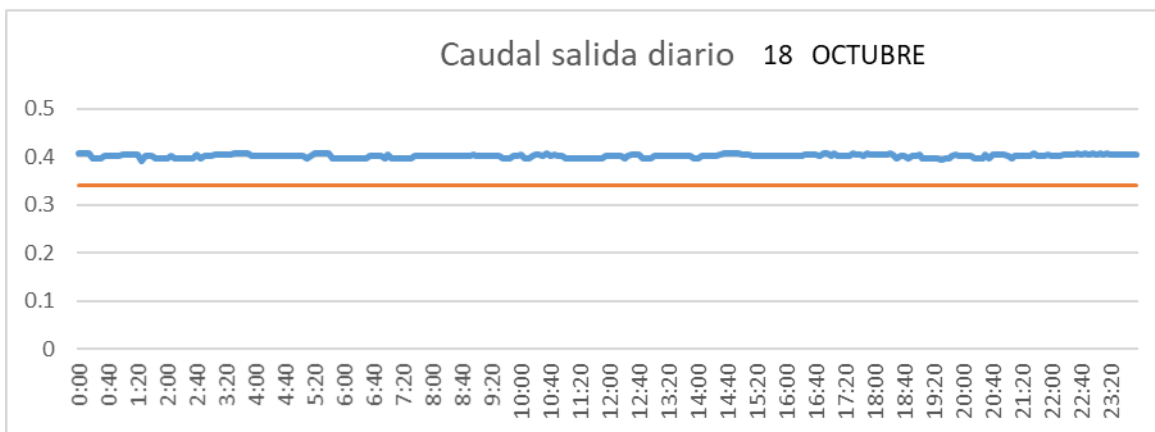
CUENCA



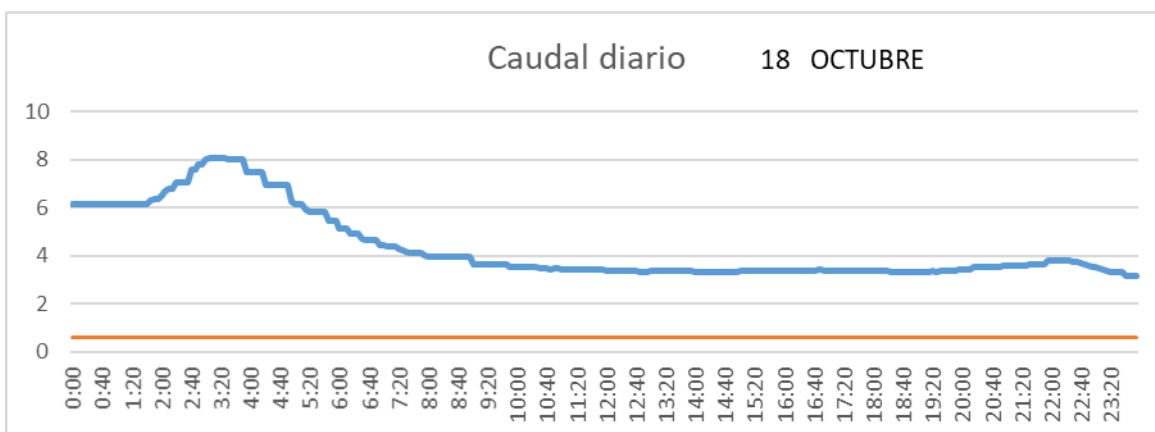
SAN LORENZO PARRILLA



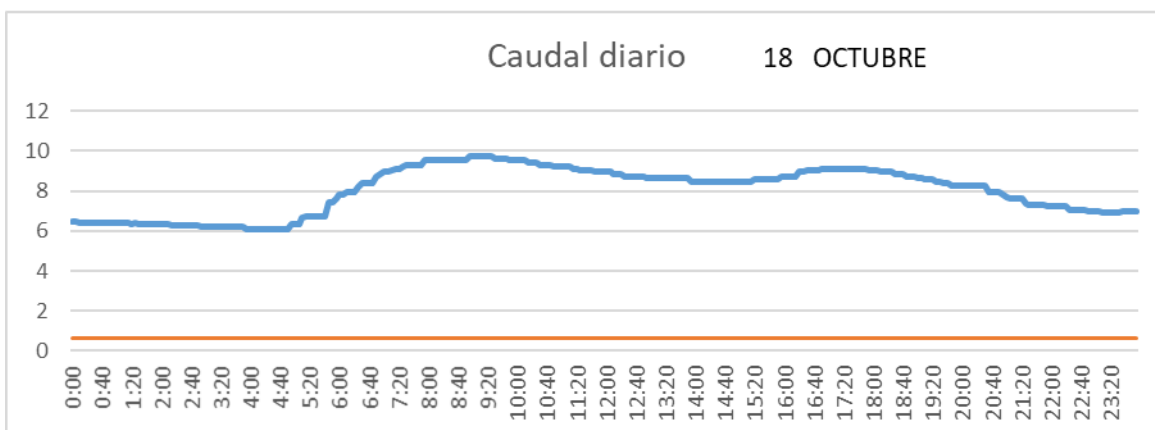
SALIDA TOBA



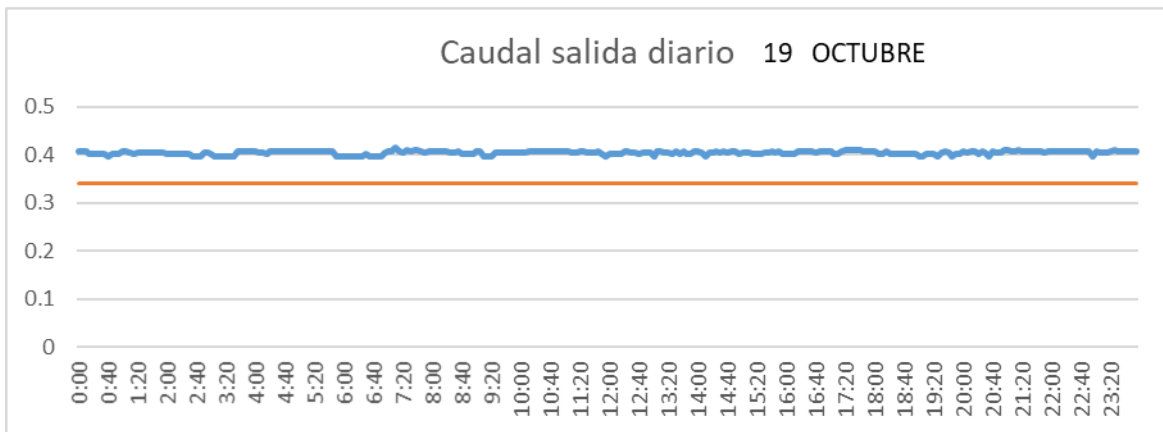
CUENCA



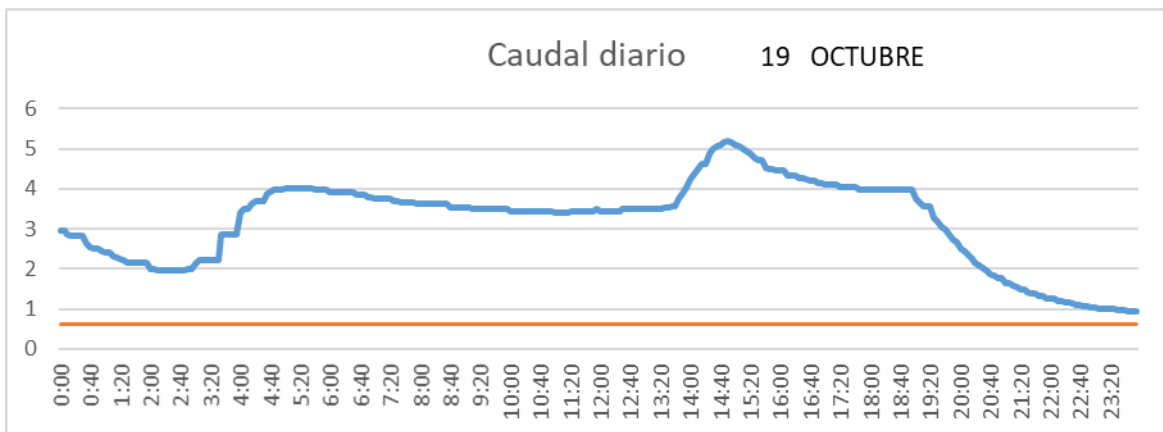
SAN LORENZO PARRILLA



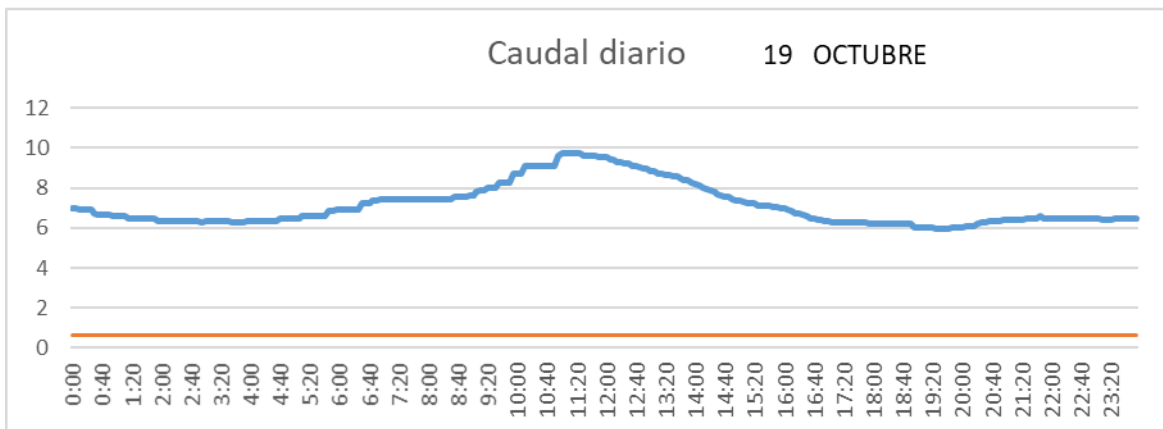
SALIDA TOBA



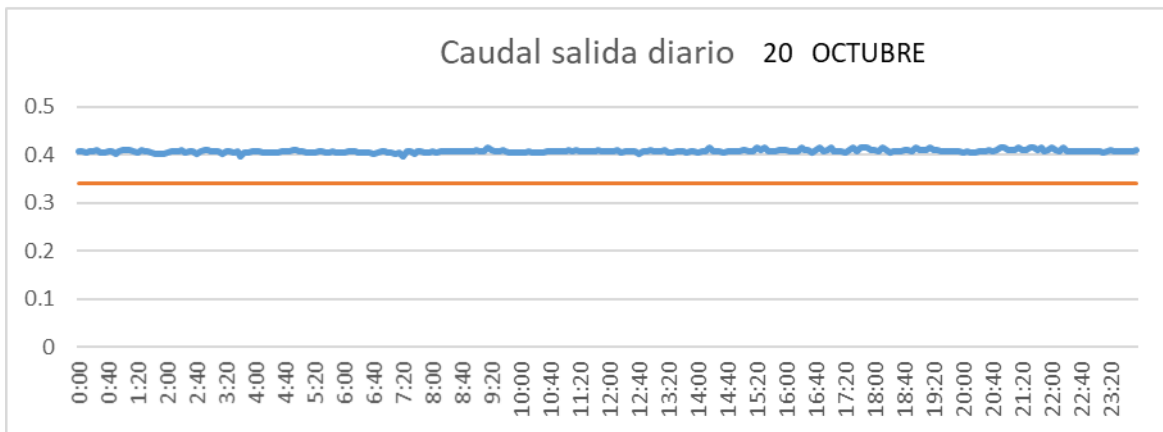
CUENCA



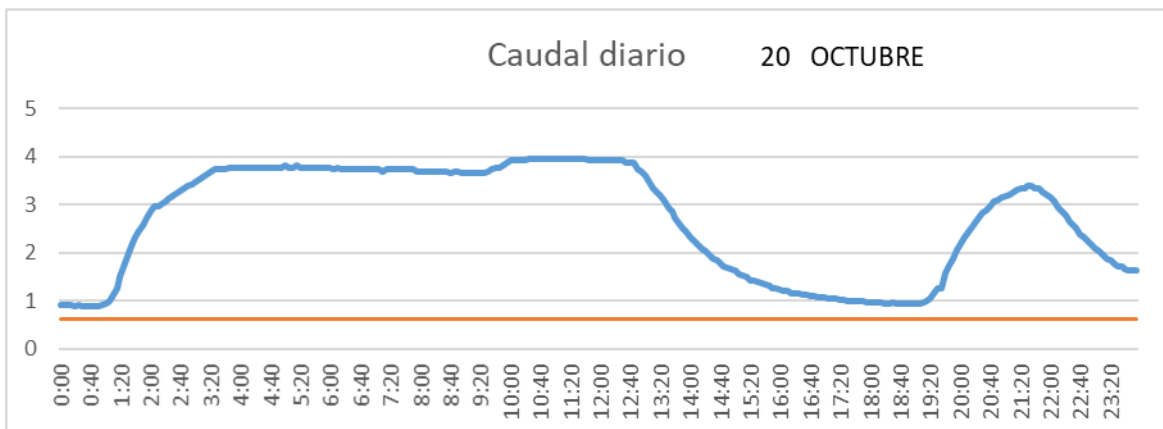
SAN LORENZO PARRILLA



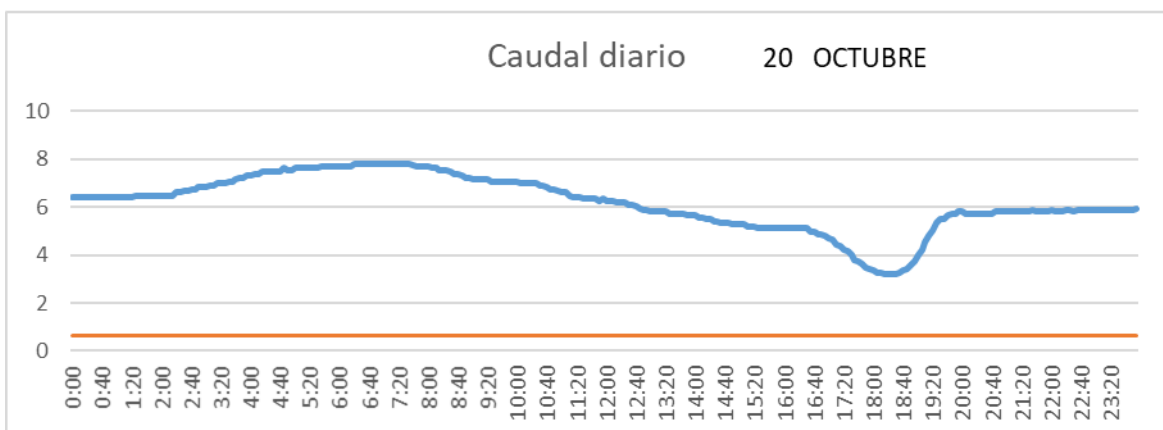
SALIDA TOBA



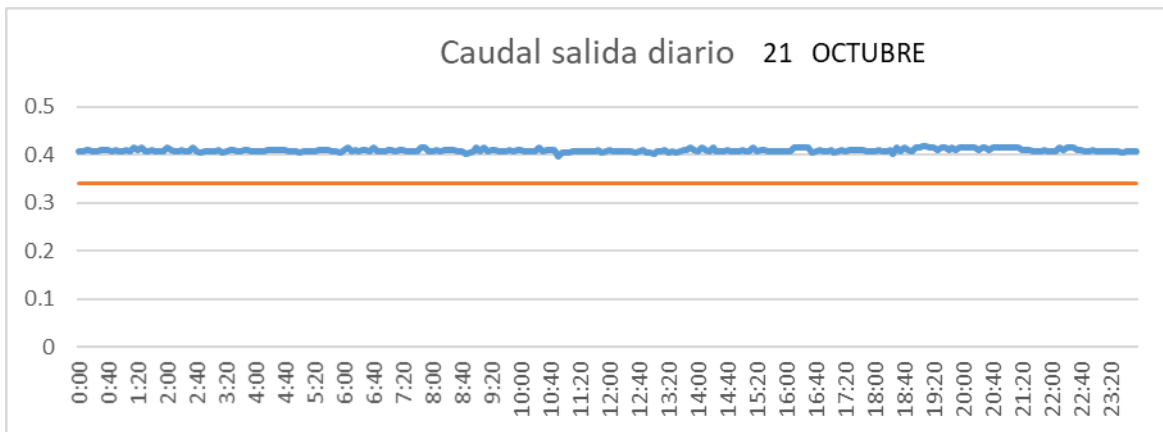
CUENCA



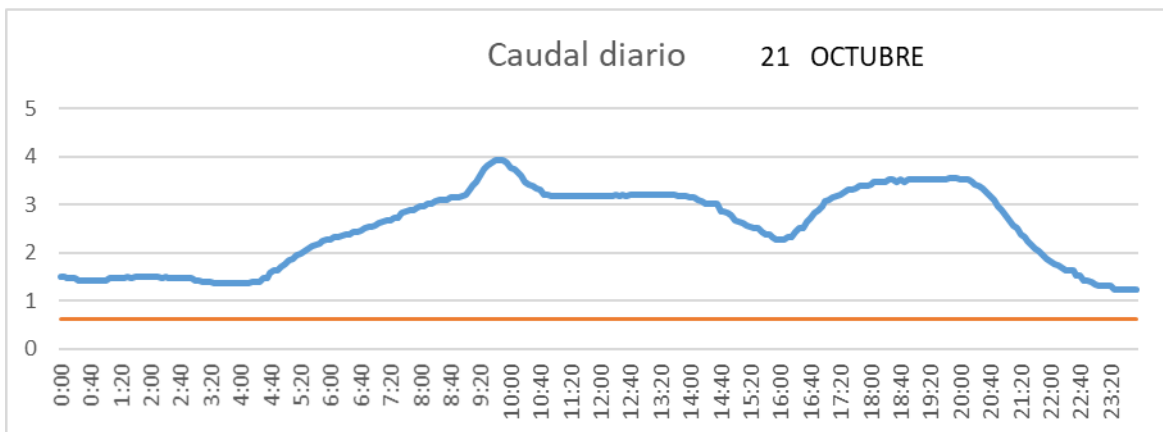
SAN LORENZO PARRILLA



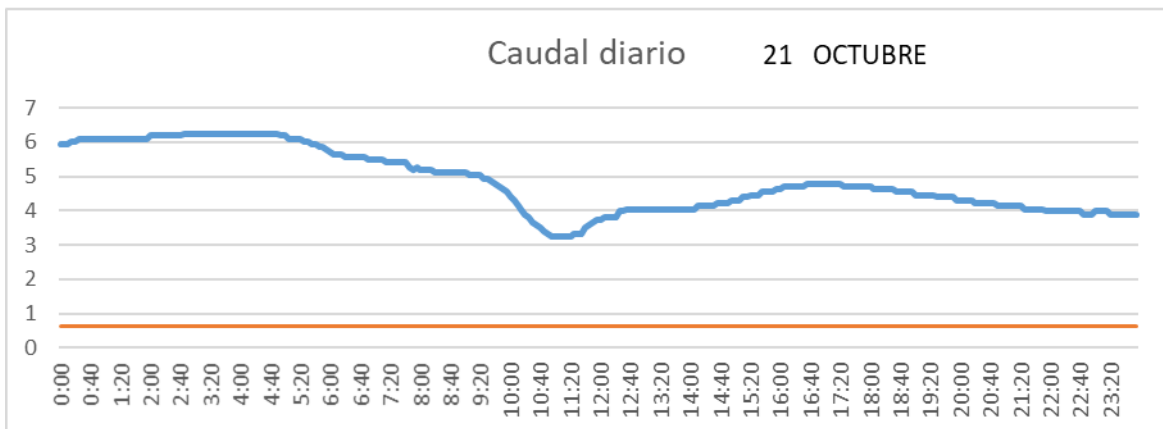
SALIDA TOBA



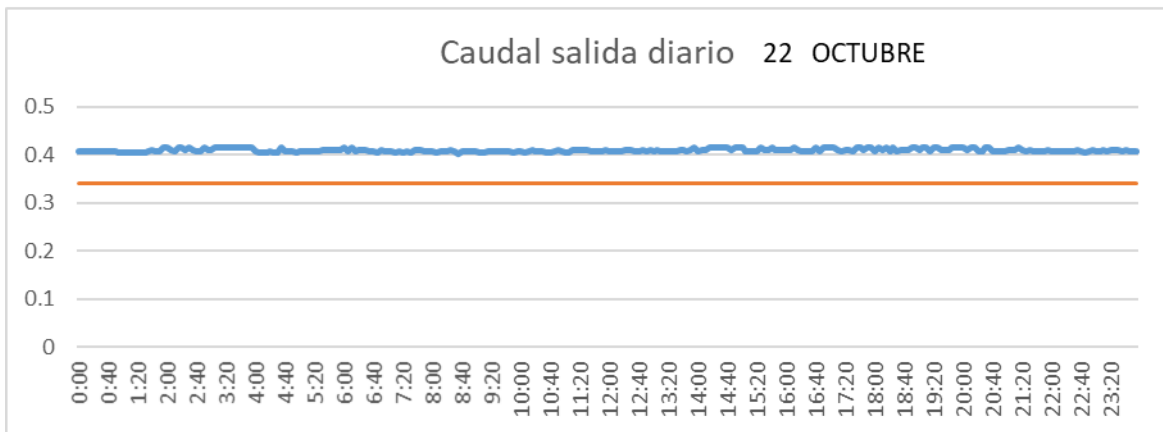
CUENCA



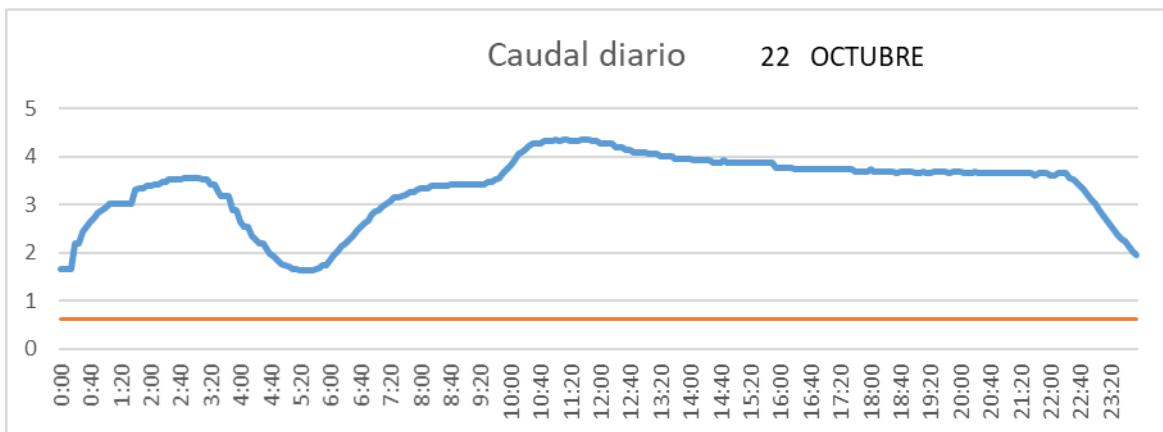
SAN LORENZO PARRILLA



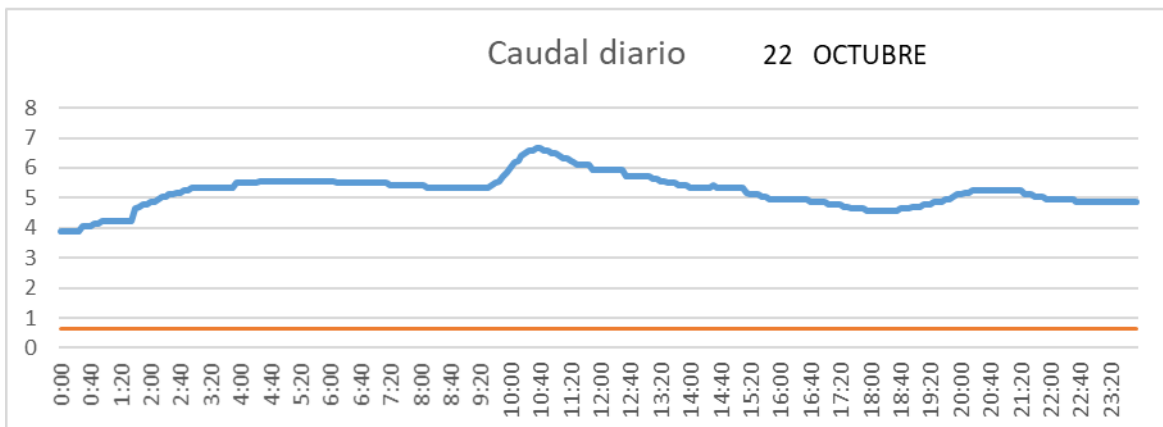
SALIDA TOBA



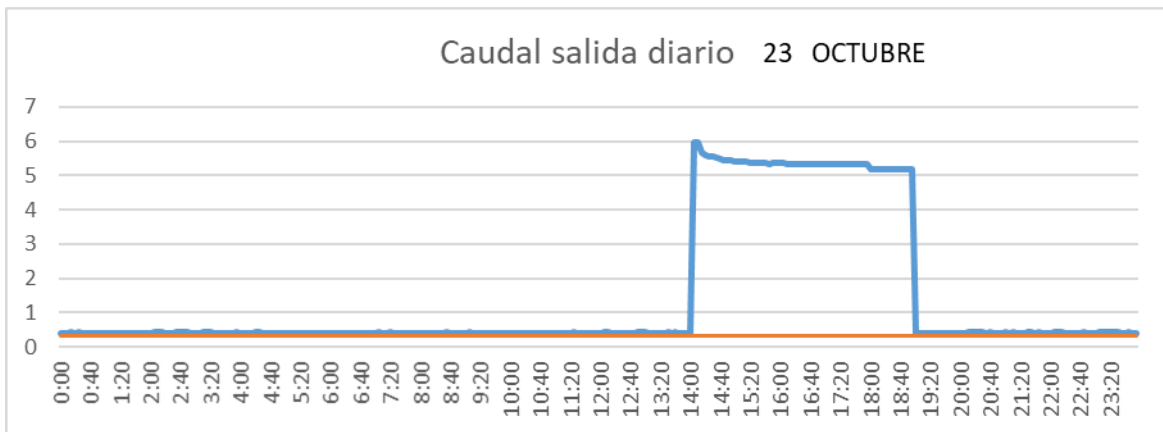
CUENCA



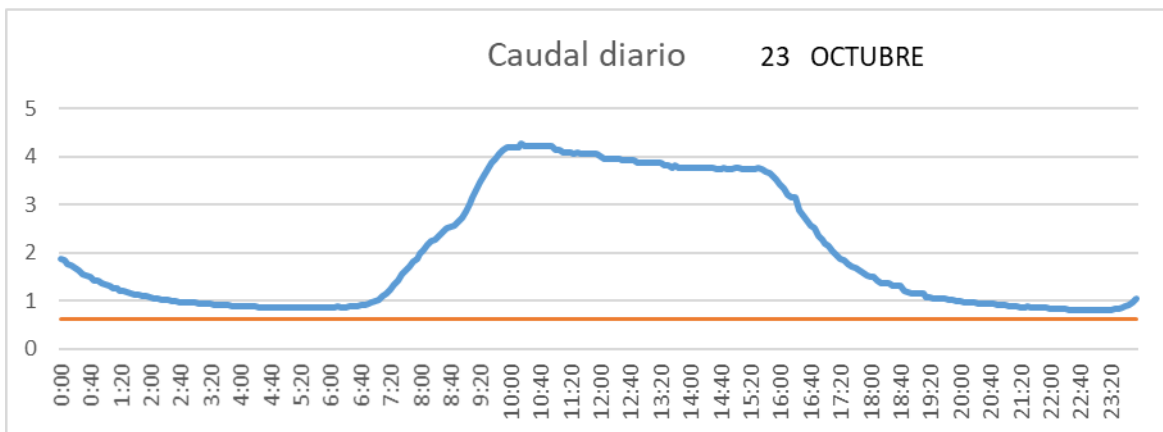
SAN LORENZO PARRILLA



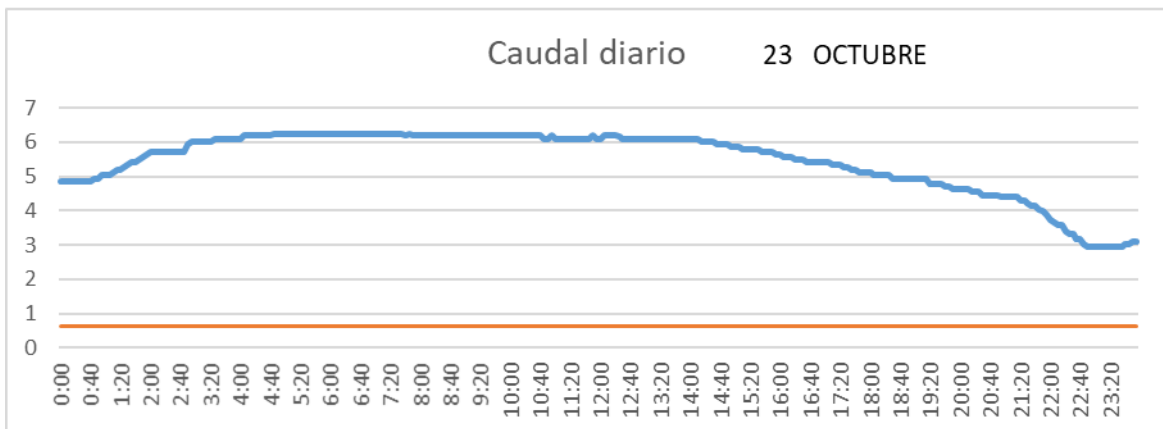
SALIDA TOBA



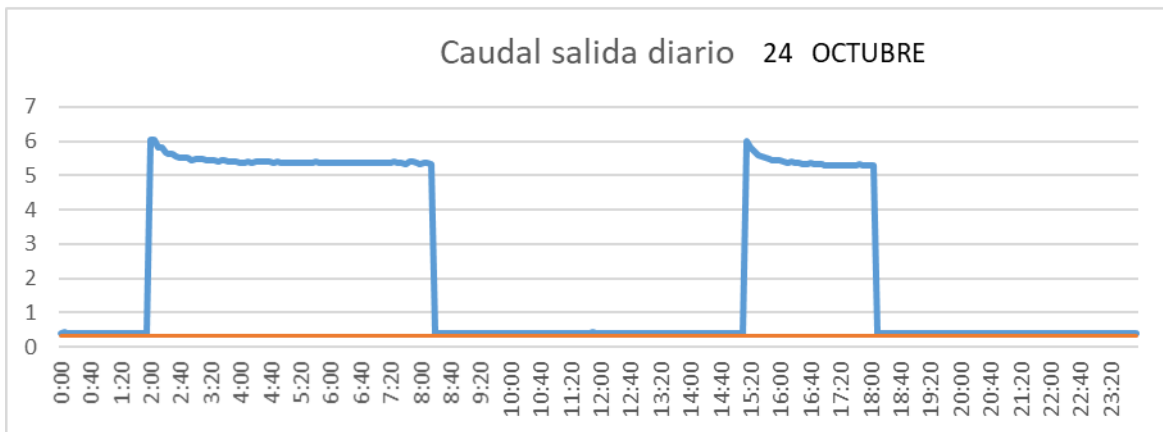
CUENCA



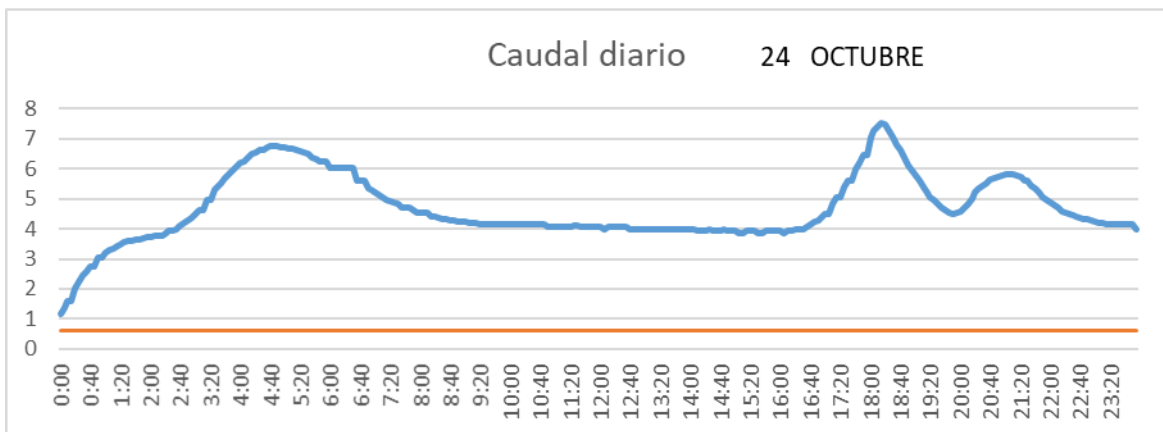
SAN LORENZO PARRILLA



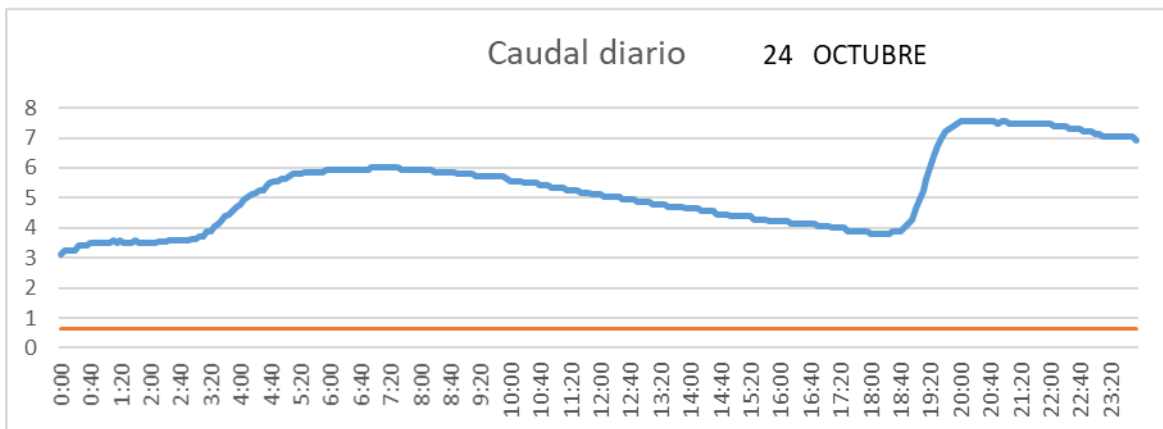
SALIDA TOBA



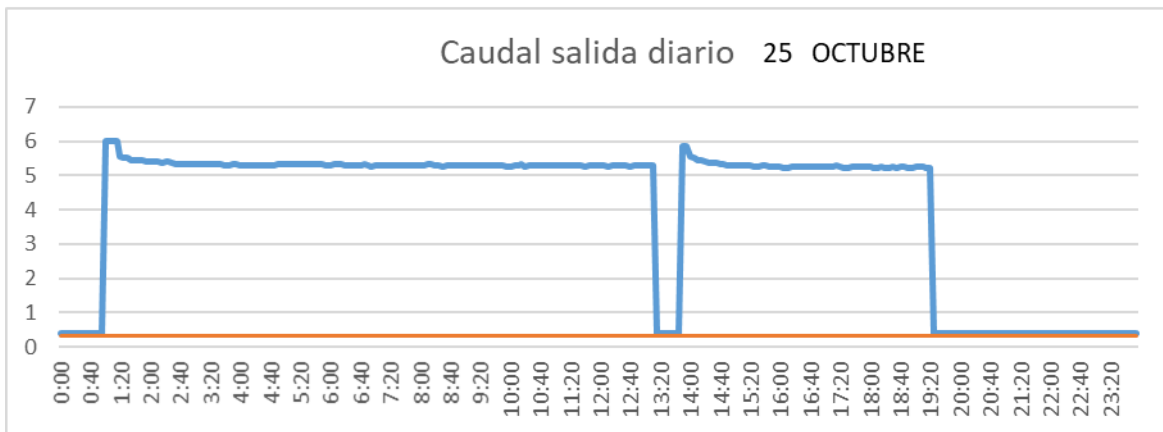
CUENCA



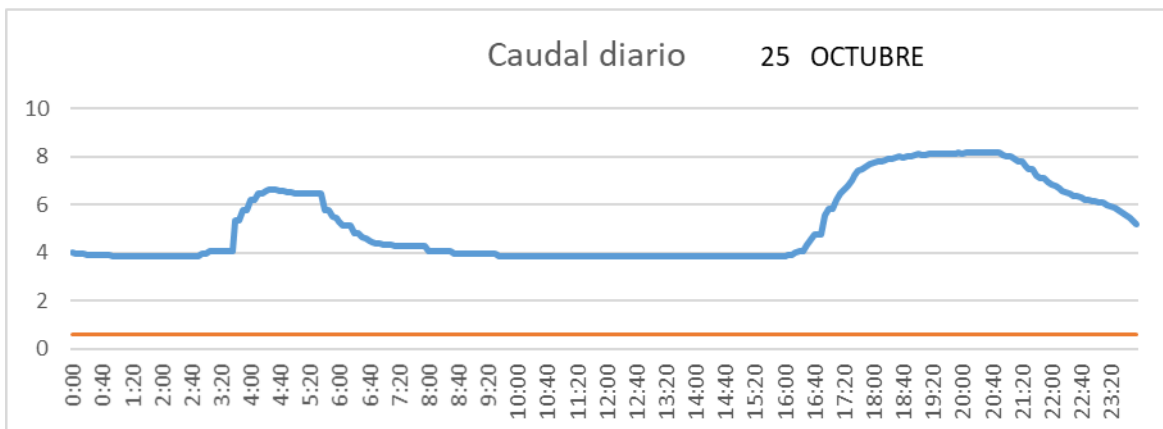
SAN LORENZO PARRILLA



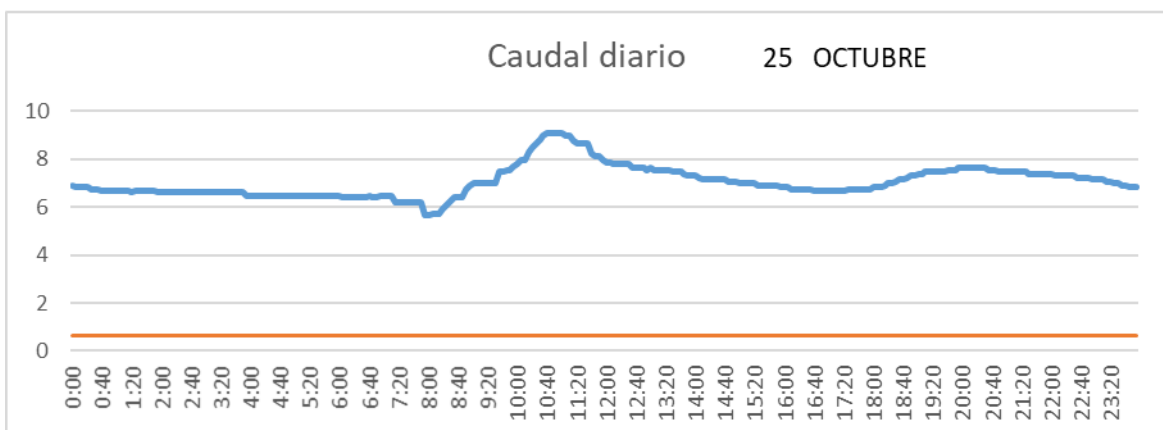
SALIDA TOBA



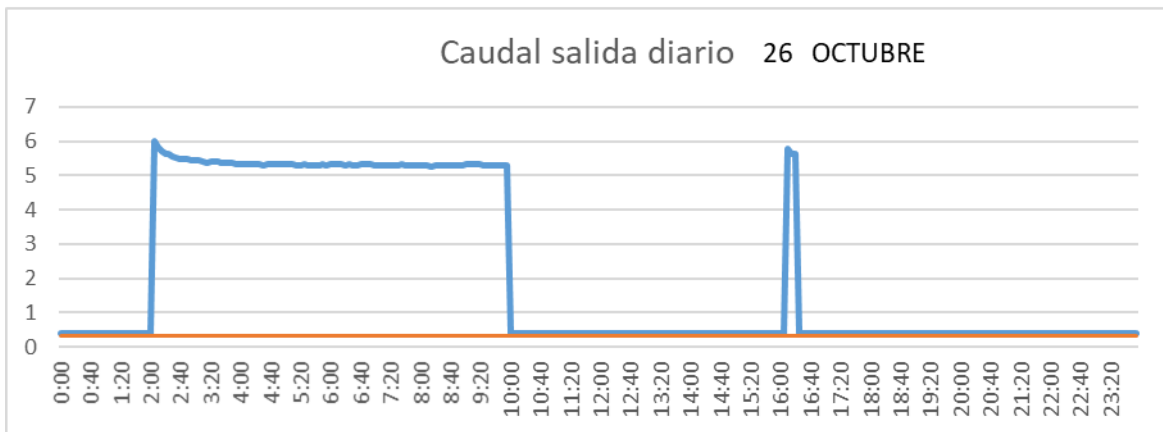
CUENCA



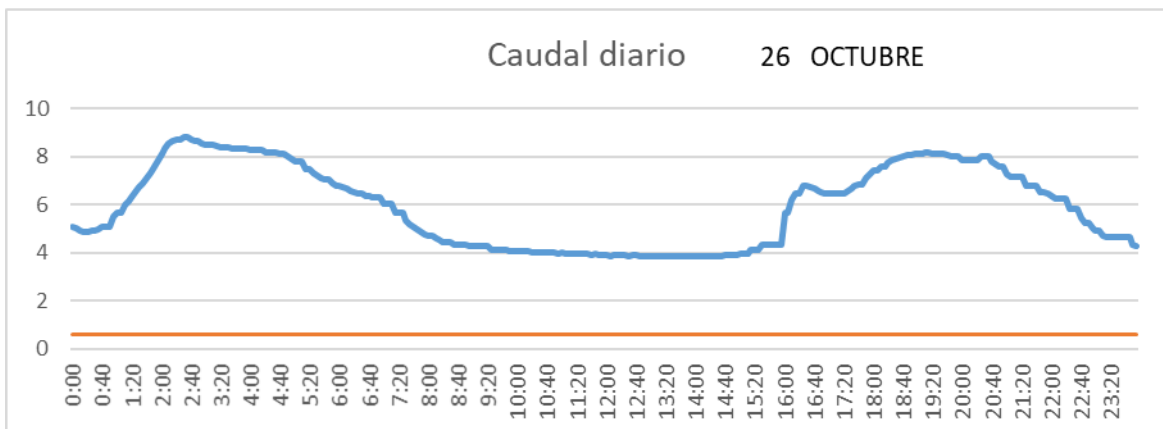
SAN LORENZO PARRILLA



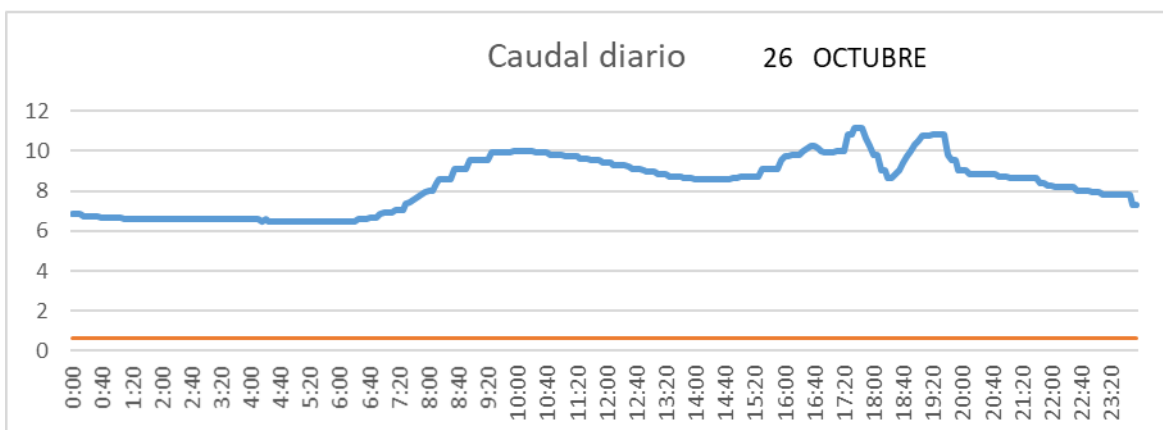
SALIDA TOBA



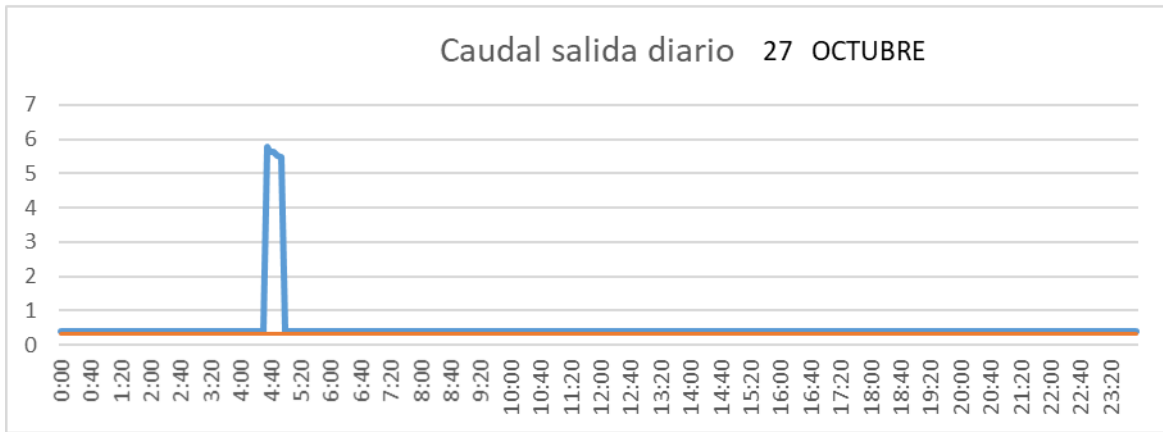
CUENCA



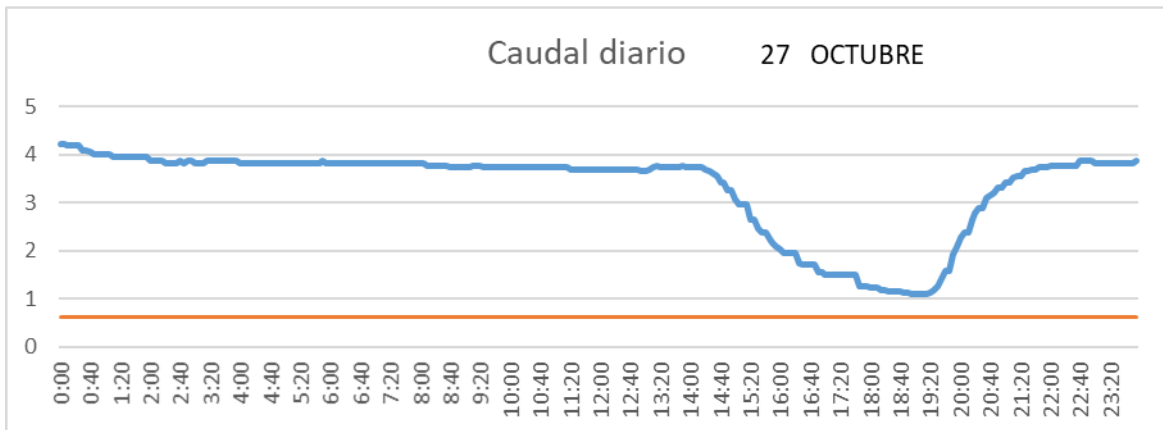
SAN LORENZO PARRILLA



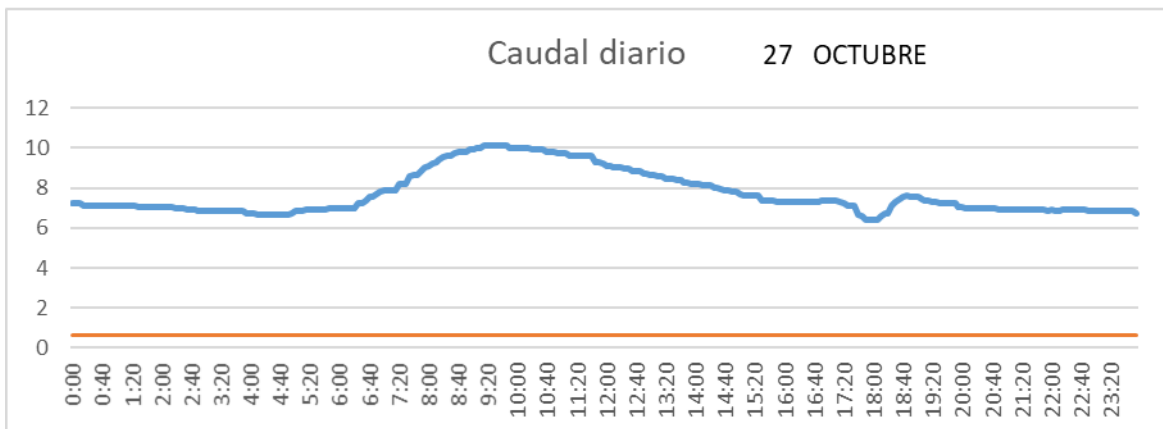
SALIDA TOBA



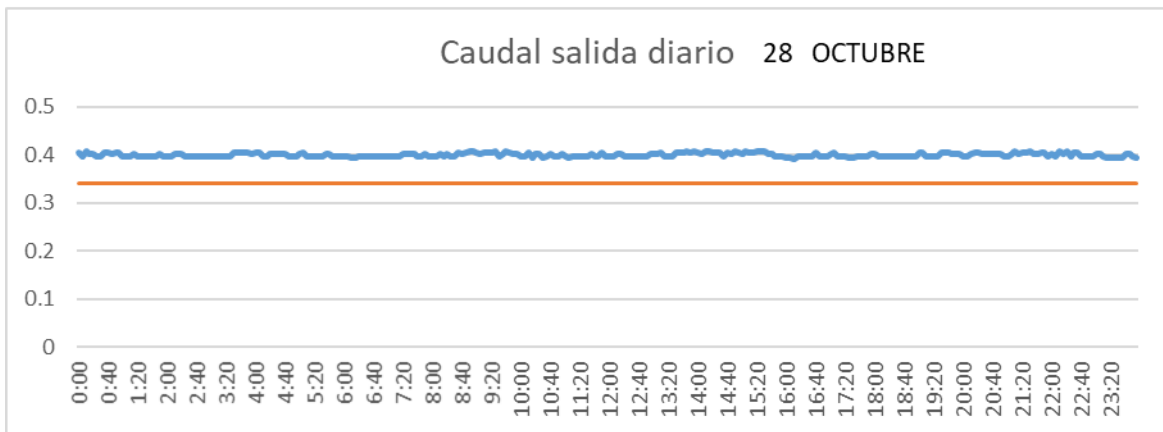
CUENCA



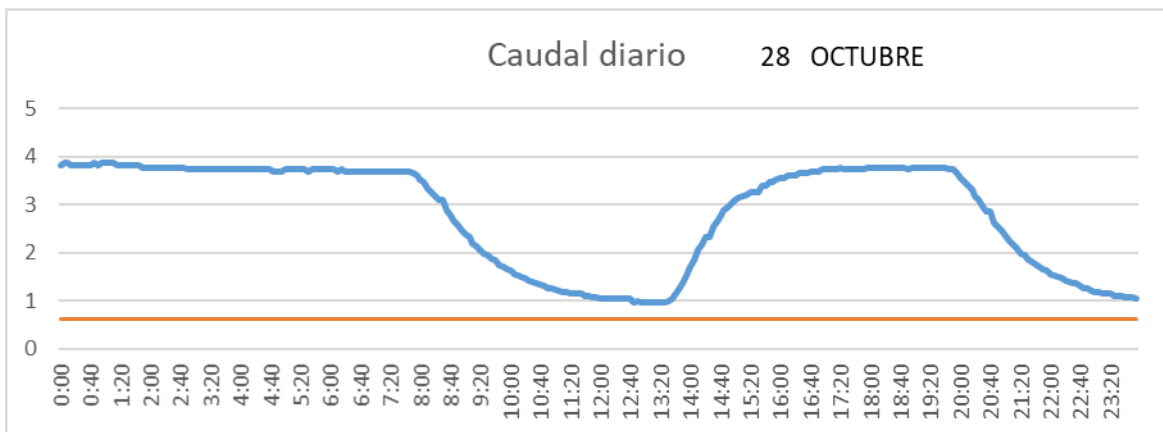
SAN LORENZO PARRILLA



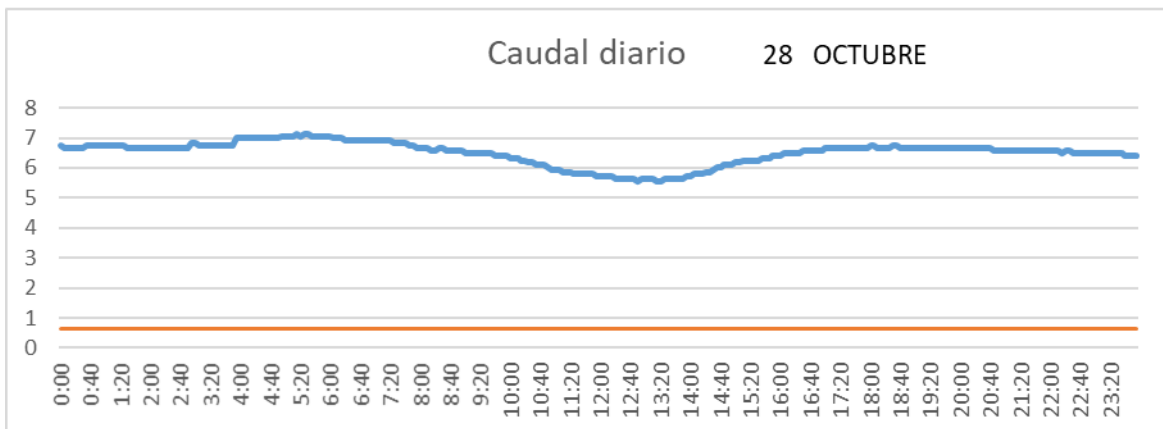
SALIDA TOBA



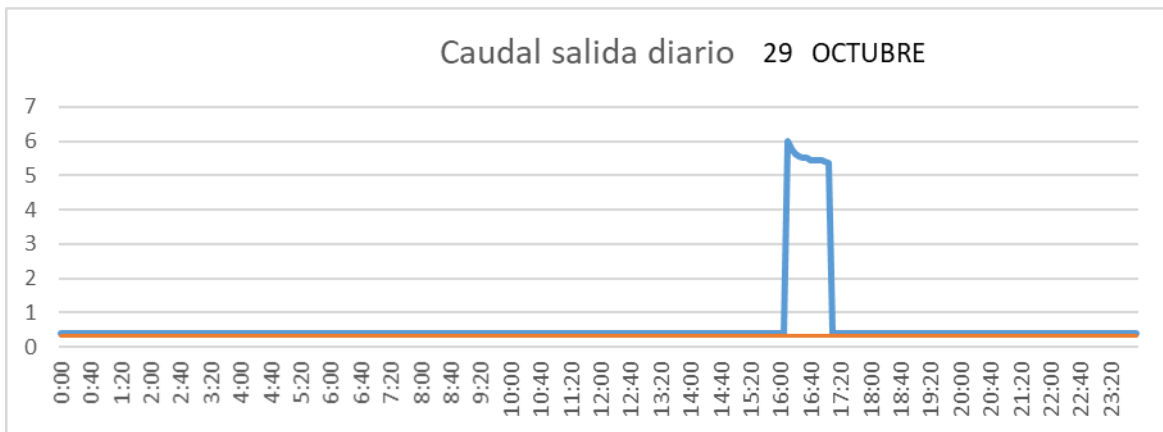
CUENCA



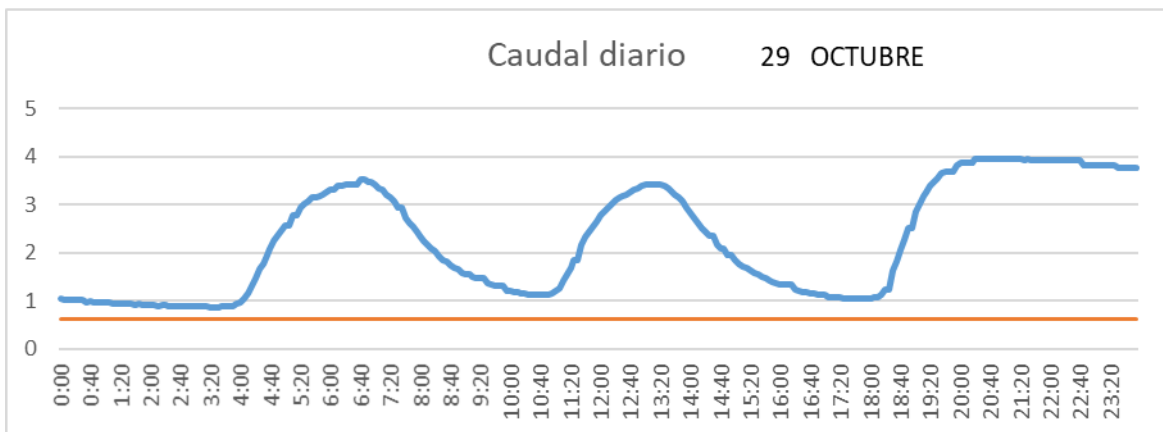
SAN LORENZO PARRILLA



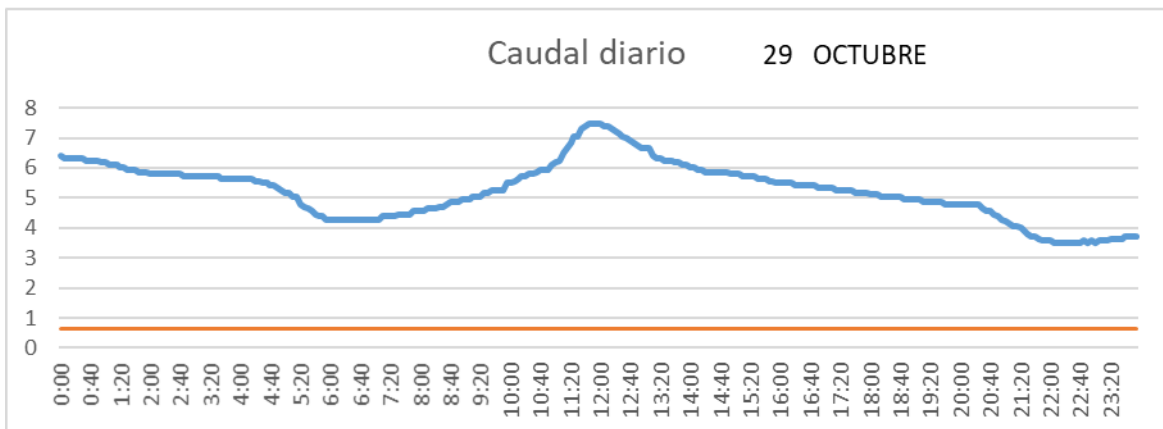
SALIDA TOBA



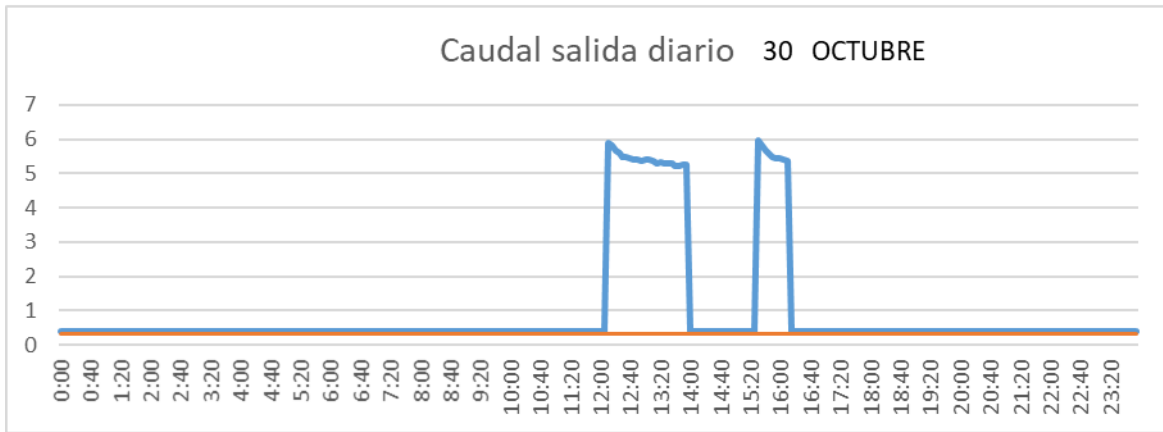
CUENCA



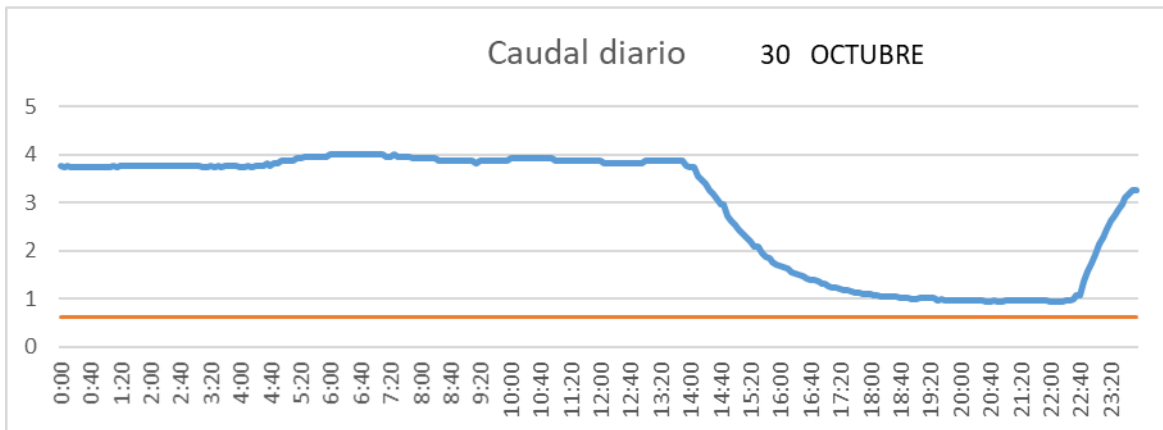
SAN LORENZO PARRILLA



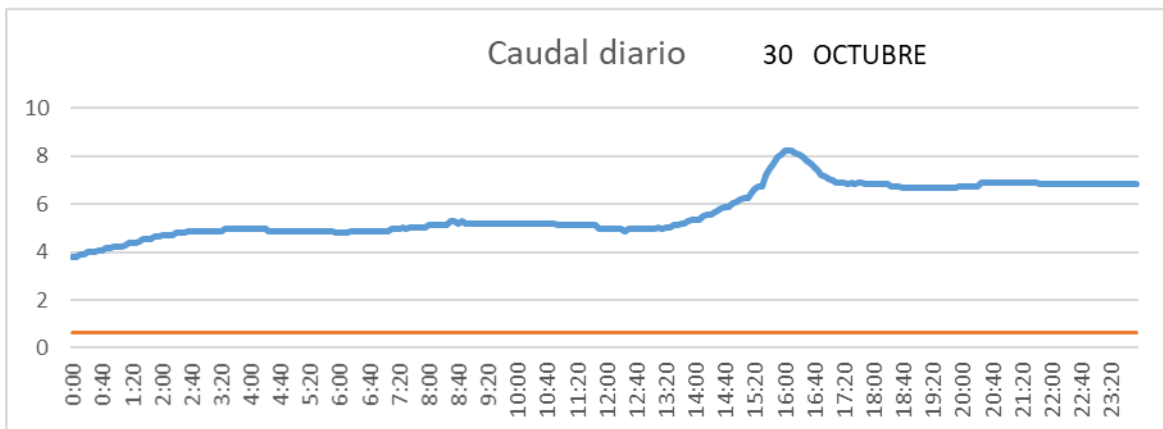
SALIDA TOBA



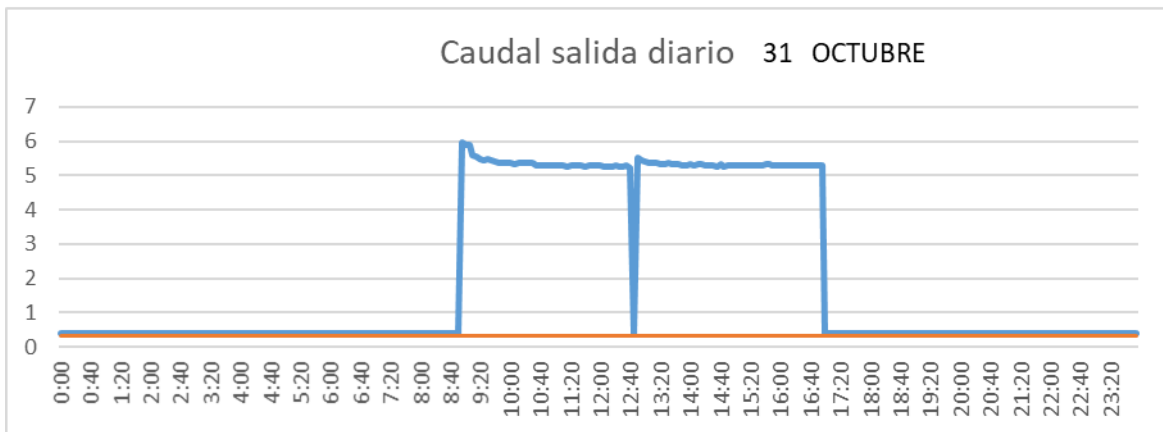
CUENCA



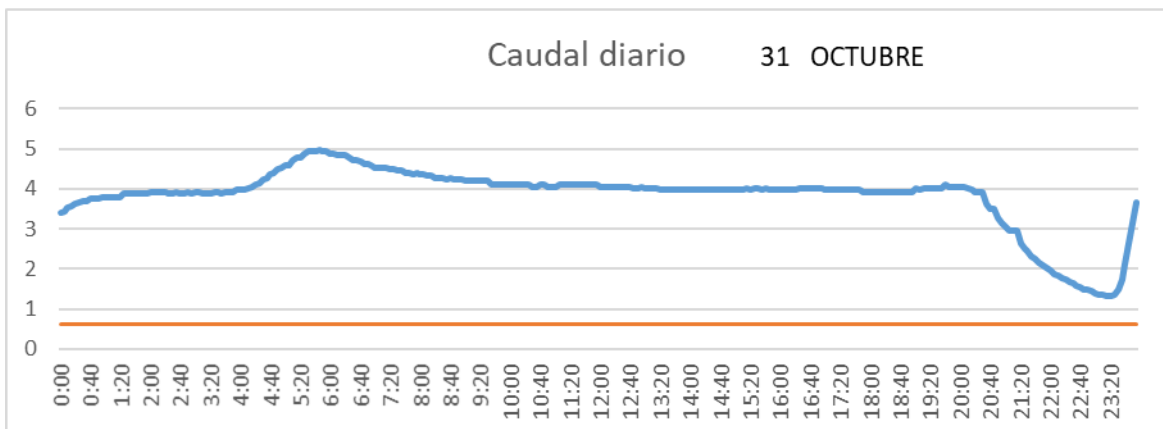
SAN LORENZO PARRILLA



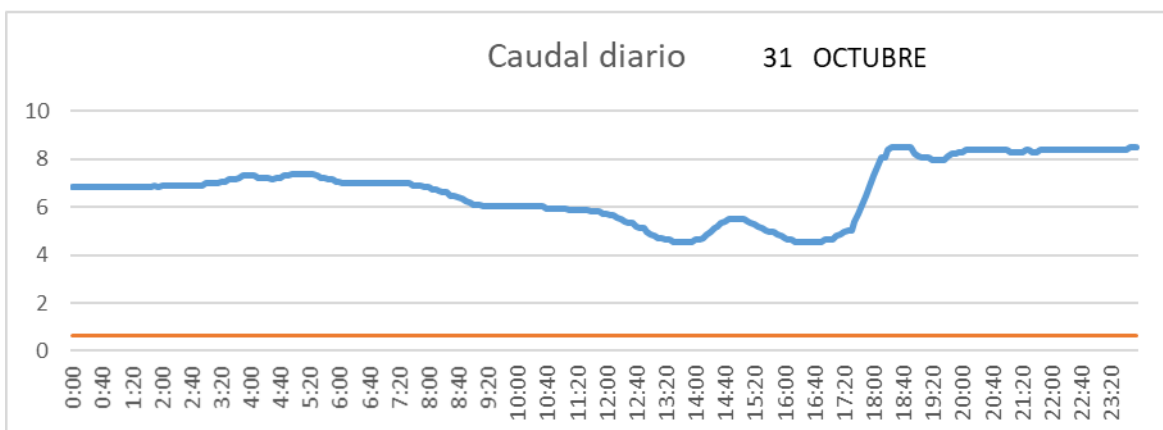
SALIDA TOBA



CUENCA

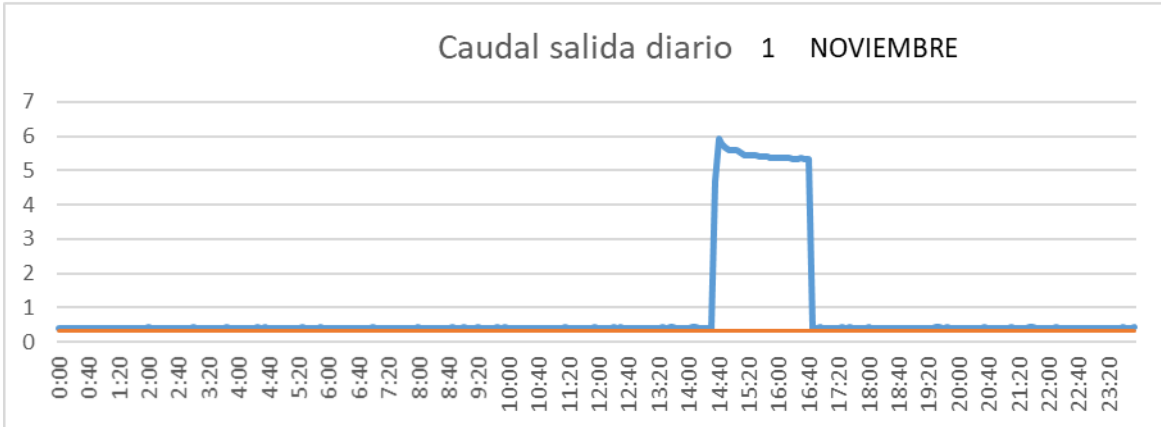


SAN LORENZO PARRILLA

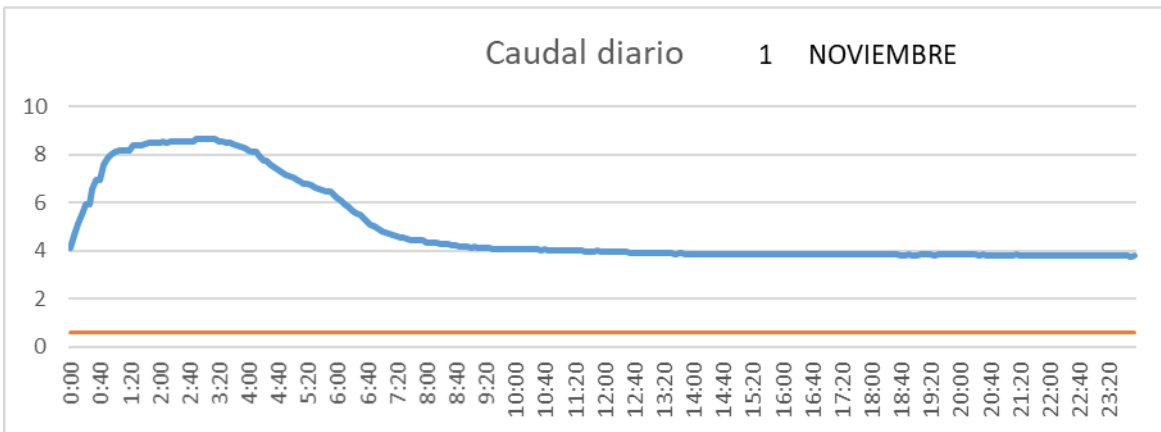


2.3.11 Noviembre

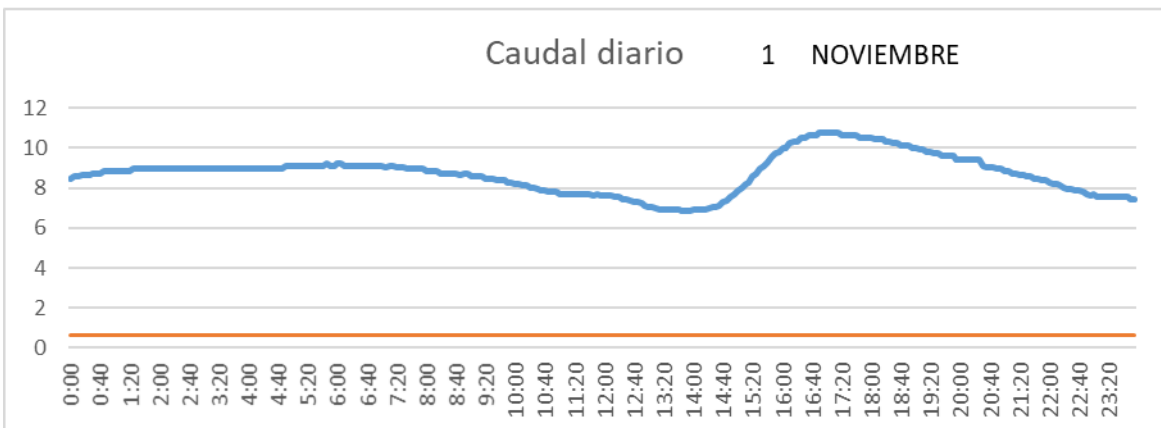
SALIDA TOBA



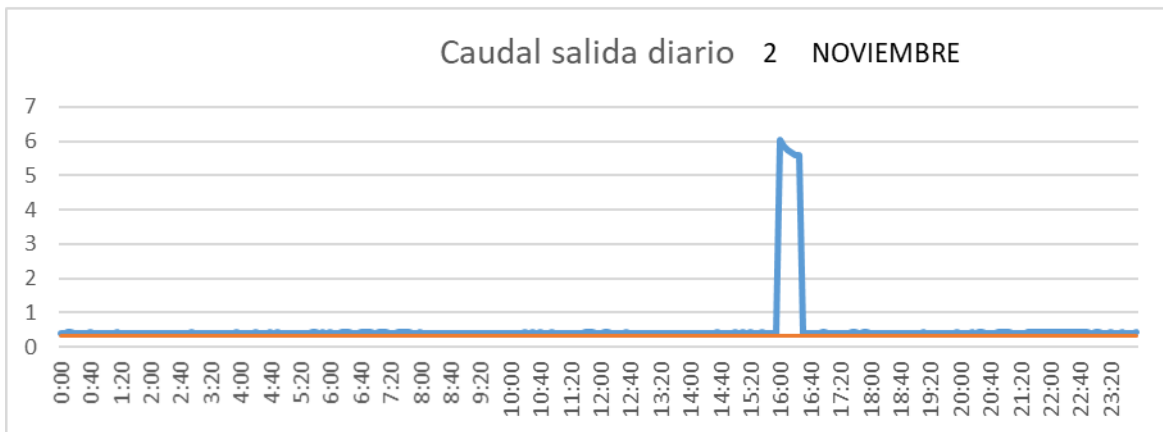
CUENCA



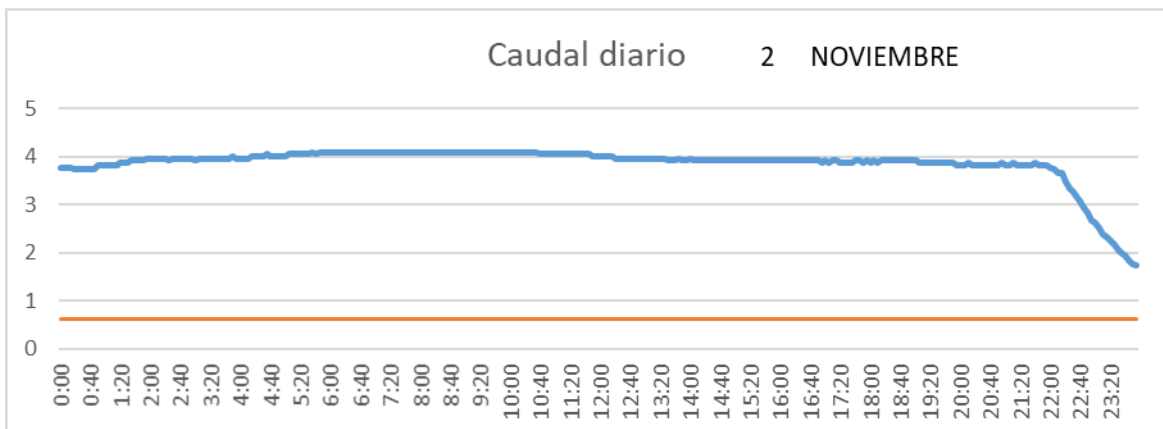
SAN LORENZO PARRILLA



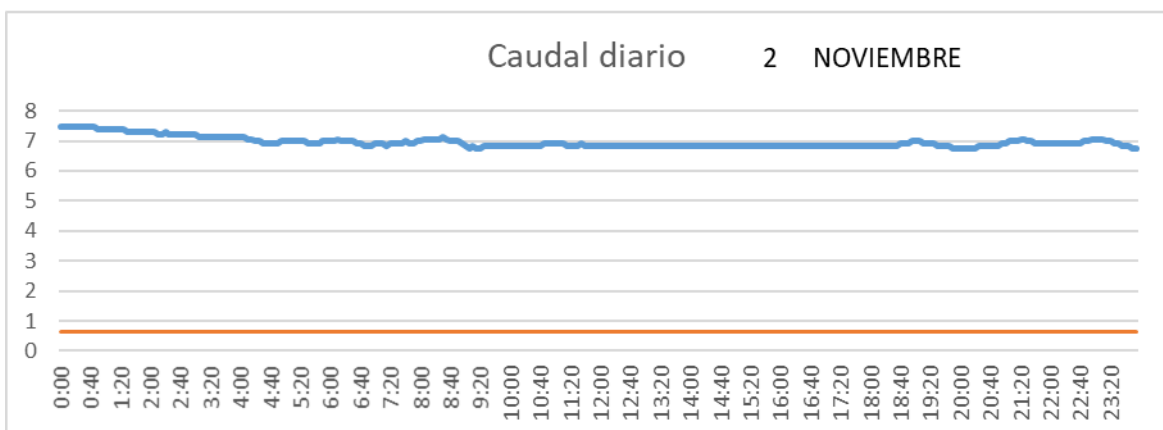
SALIDA TOBA



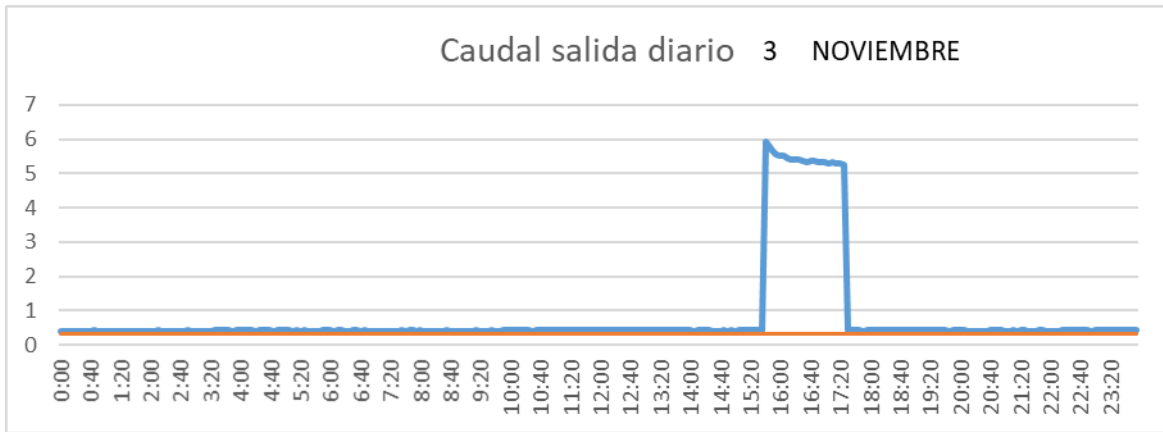
CUENCA



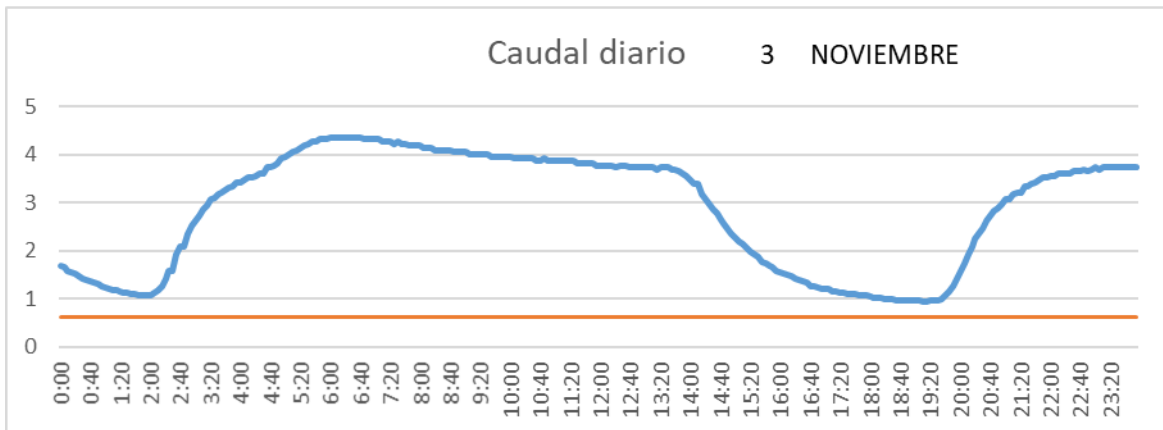
SAN LORENZO PARRILLA



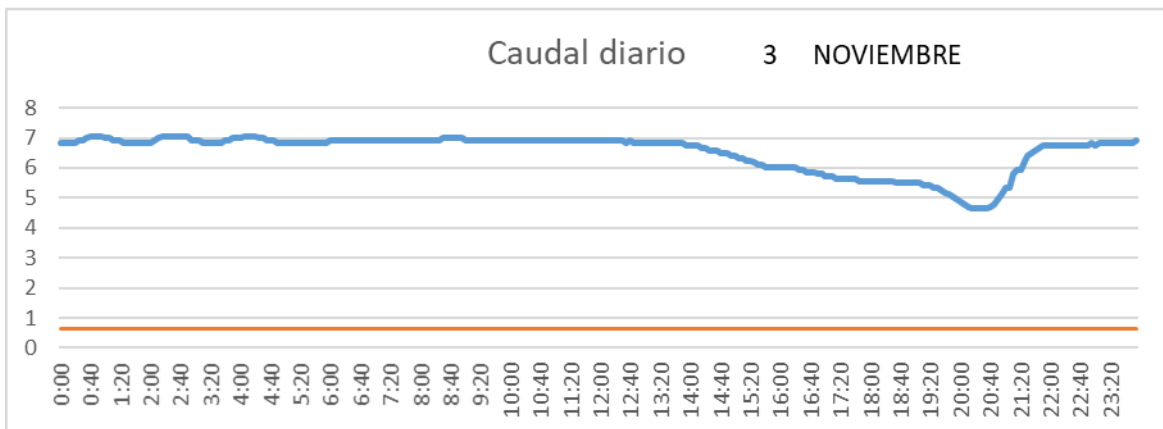
SALIDA TOBA



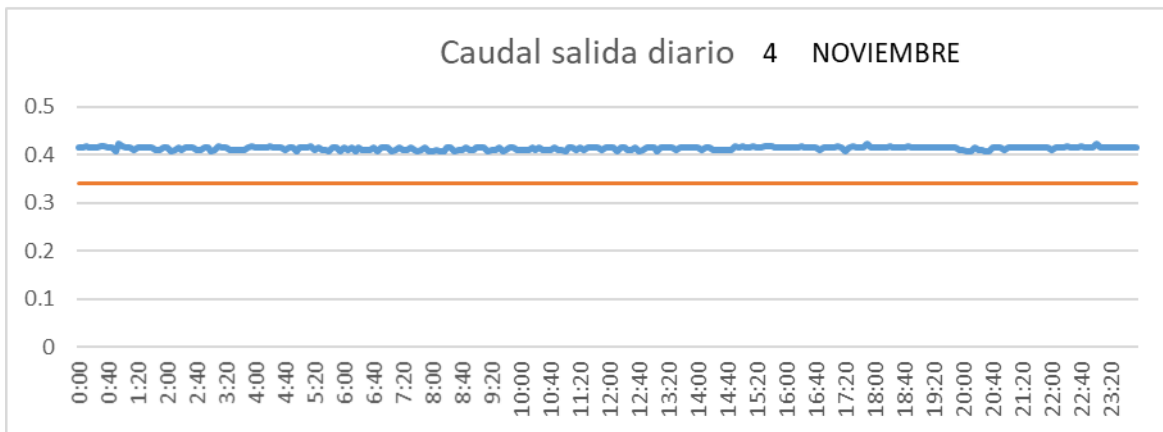
CUENCA



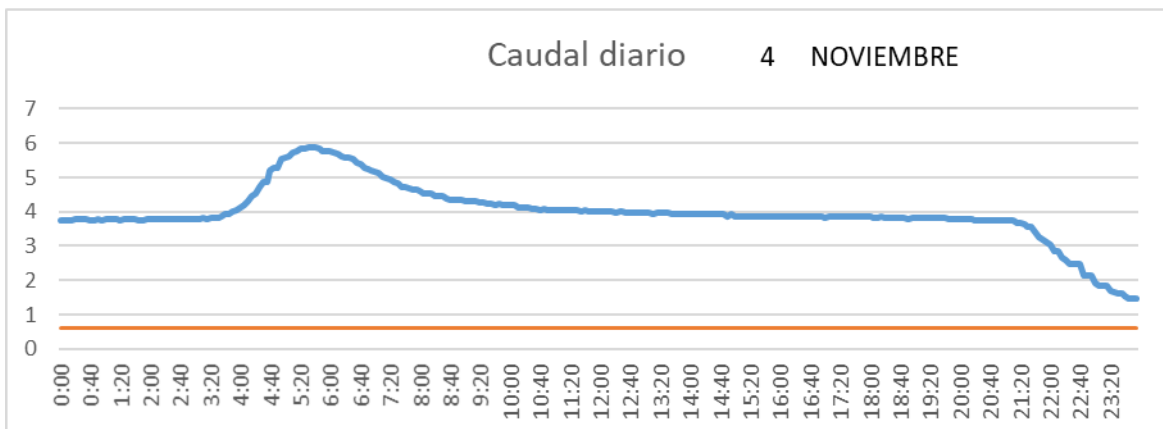
SAN LORENZO PARRILLA



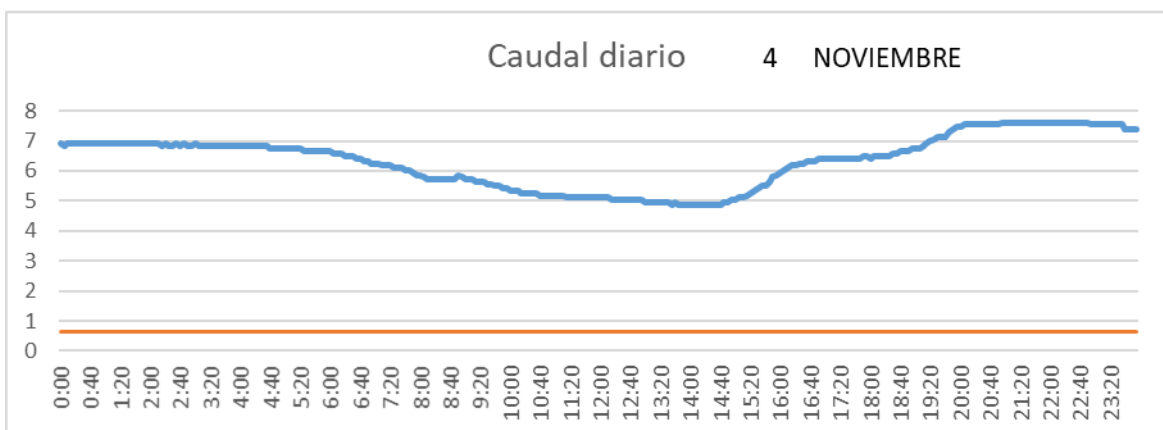
SALIDA TOBA



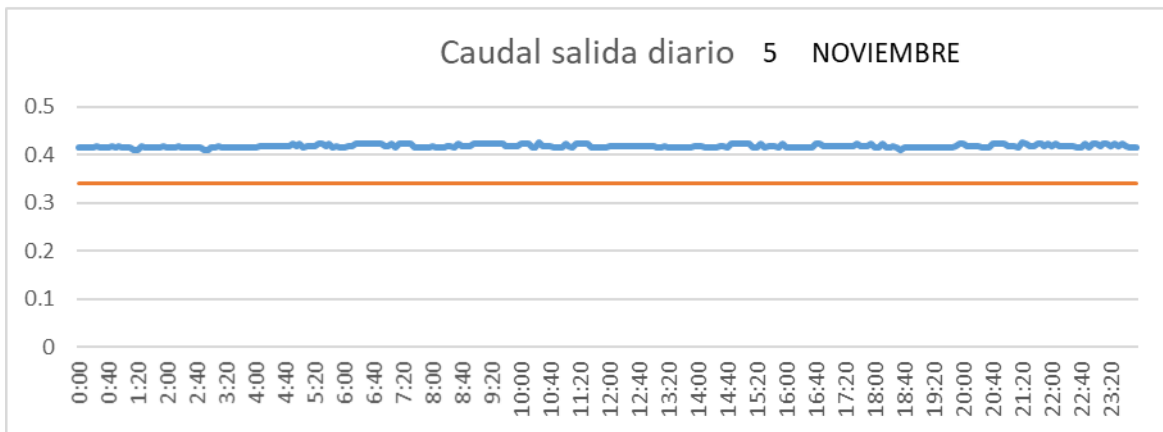
CUENCA



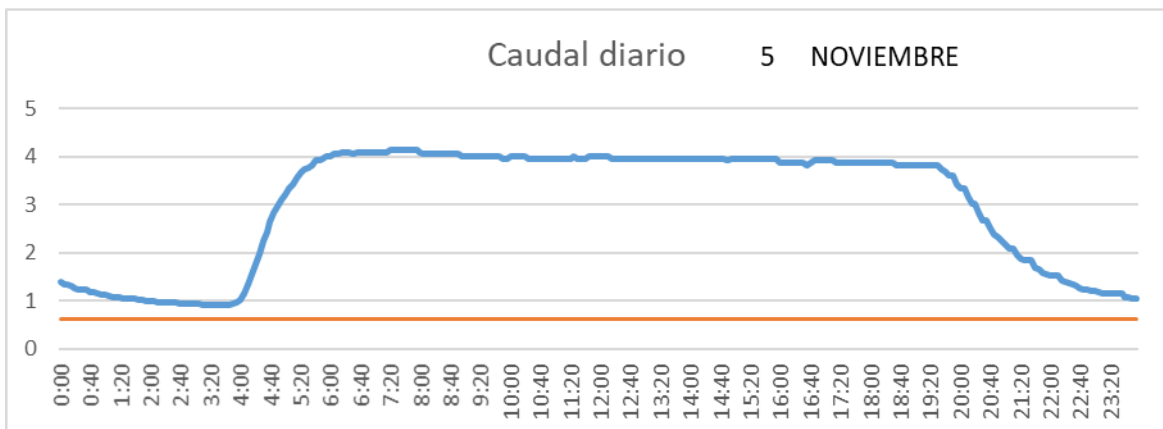
SAN LORENZO PARRILLA



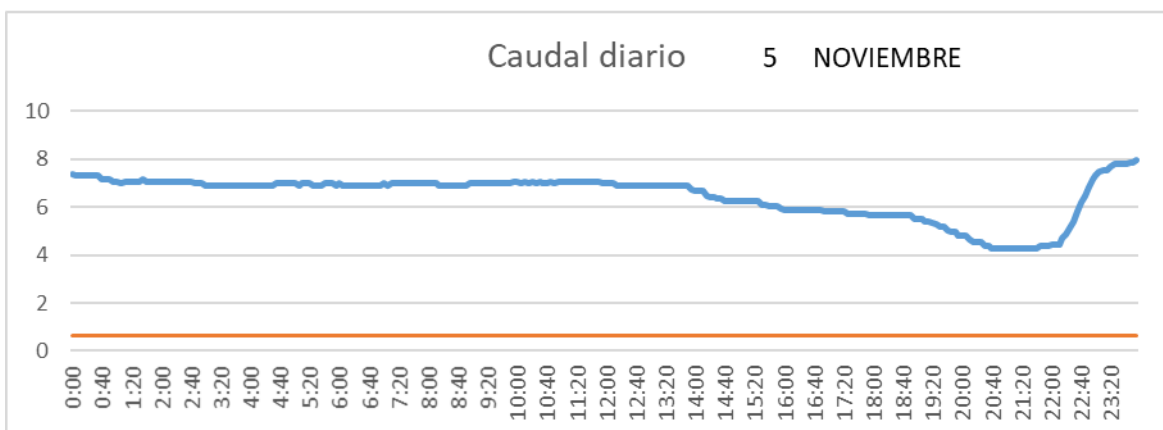
SALIDA TOBA



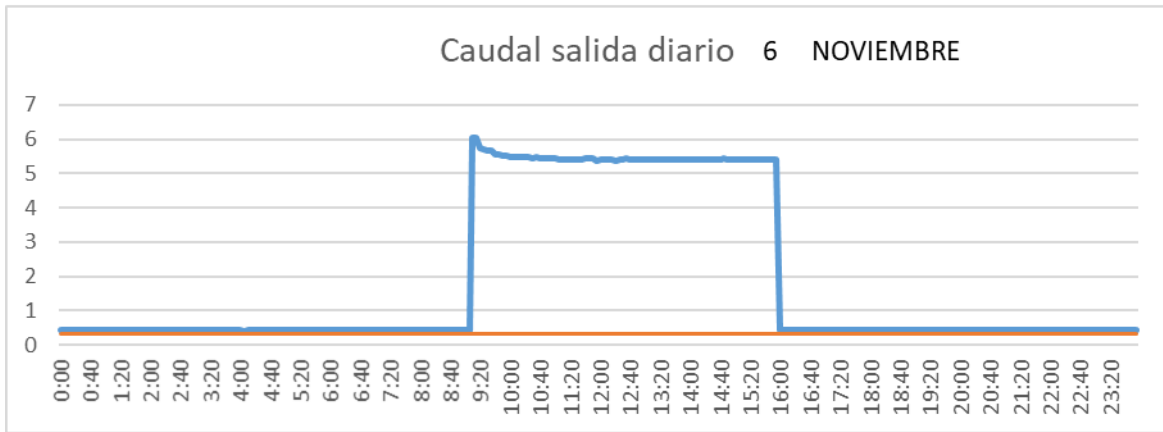
CUENCA



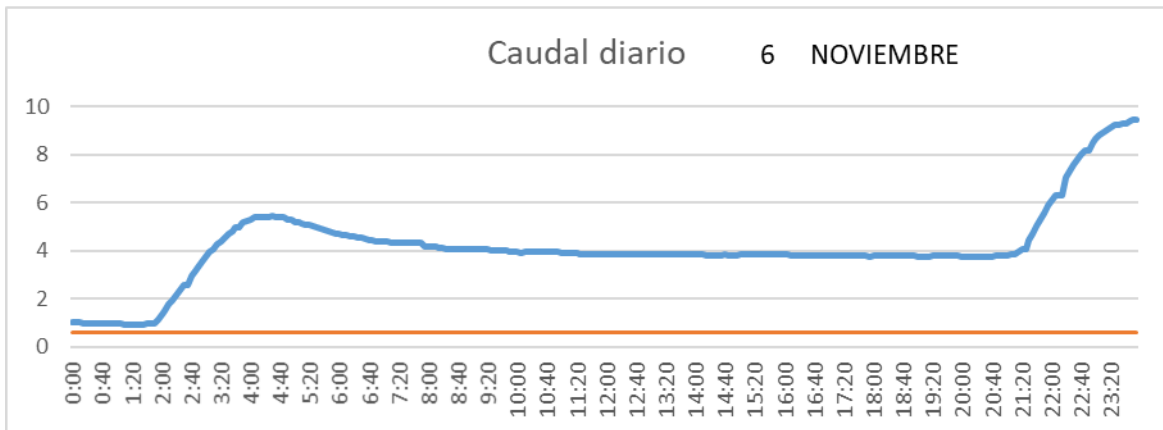
SAN LORENZO PARRILLA



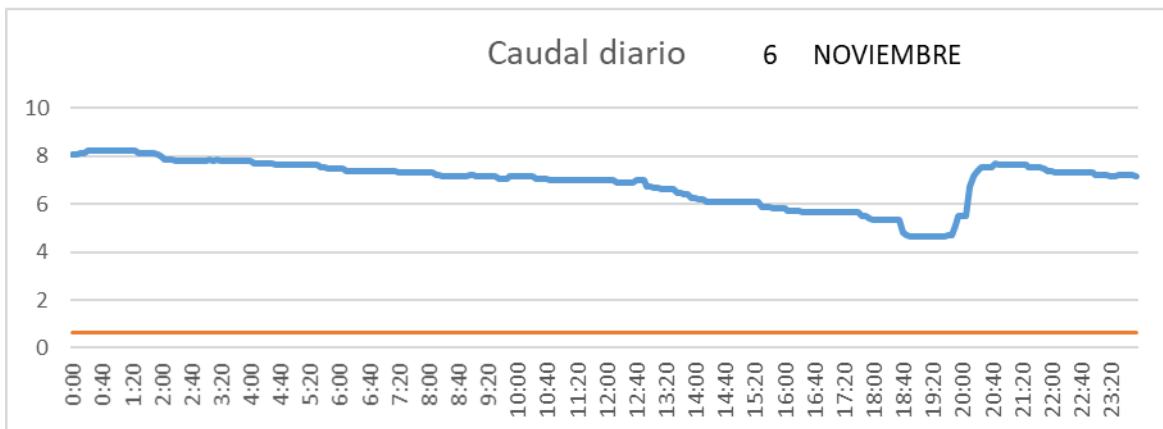
SALIDA TOBA



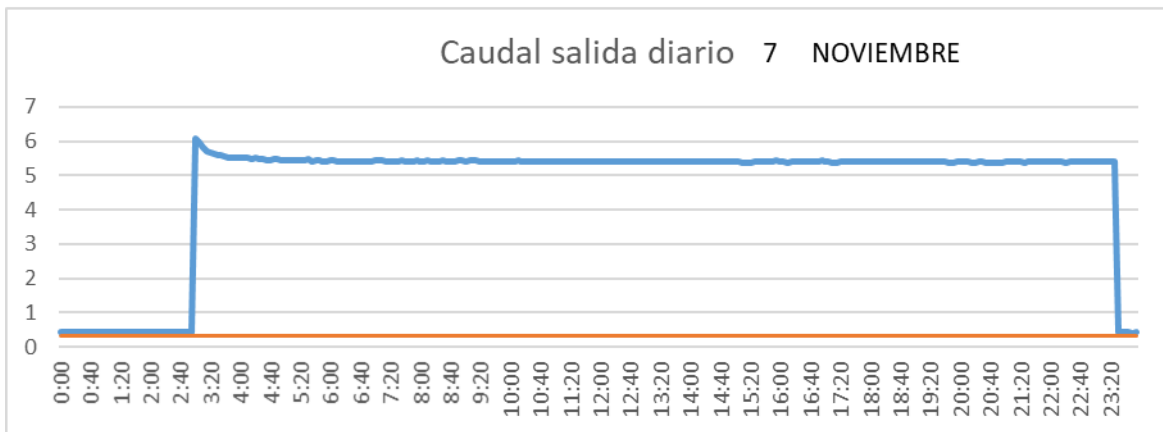
CUENCA



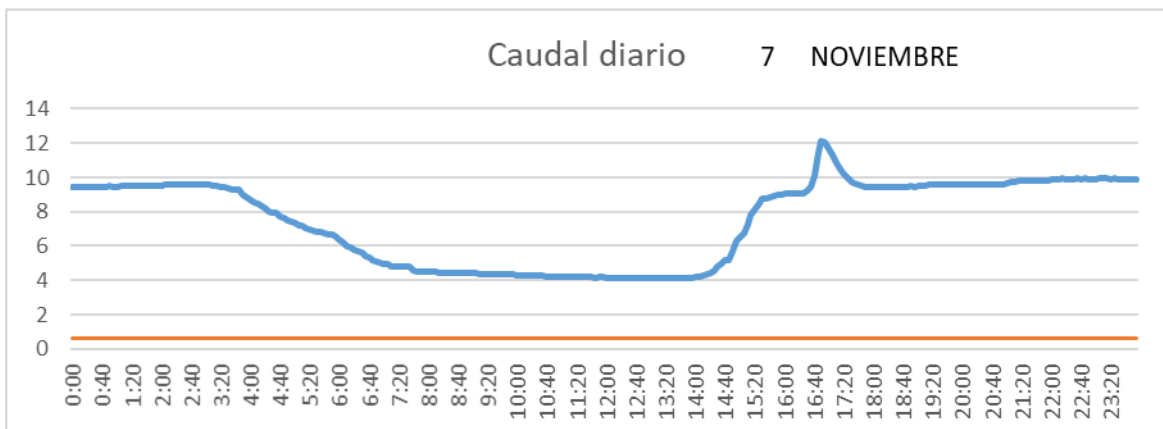
SAN LORENZO PARRILLA



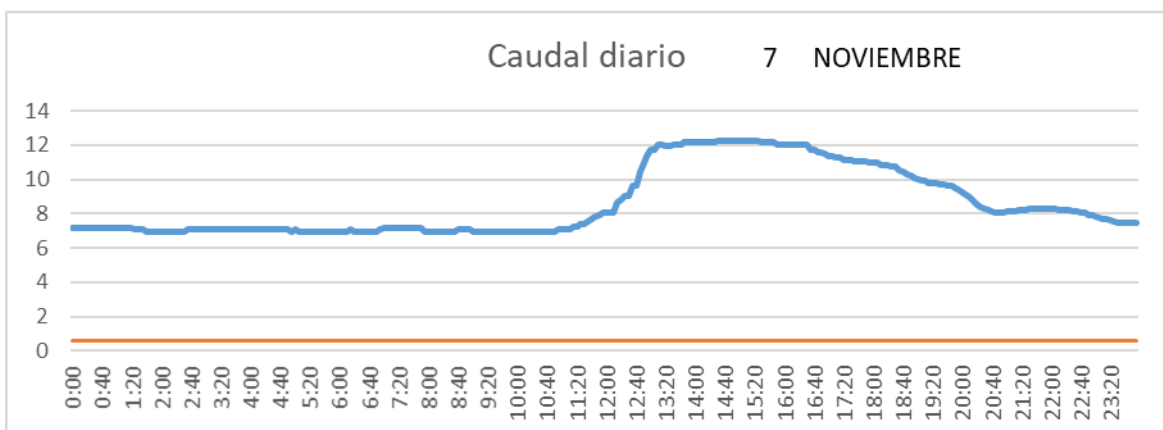
SALIDA TOBA



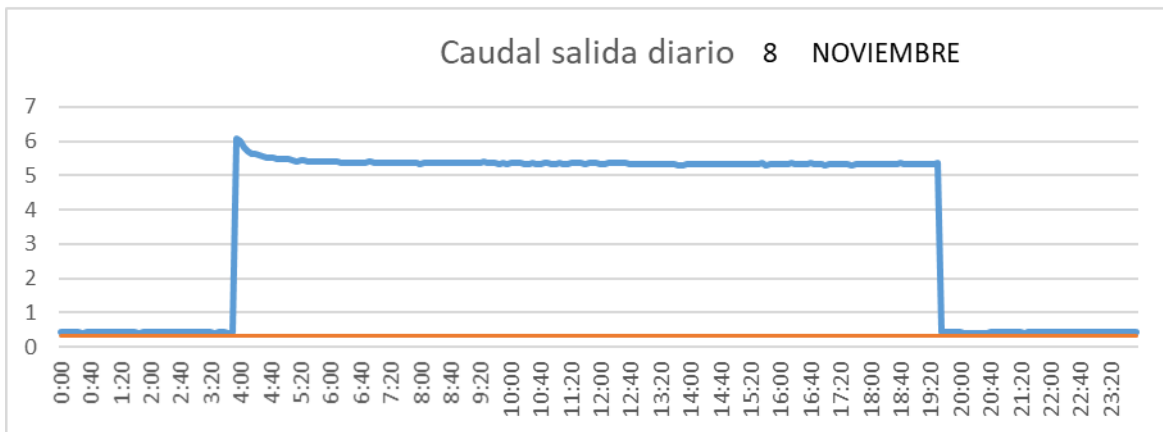
CUENCA



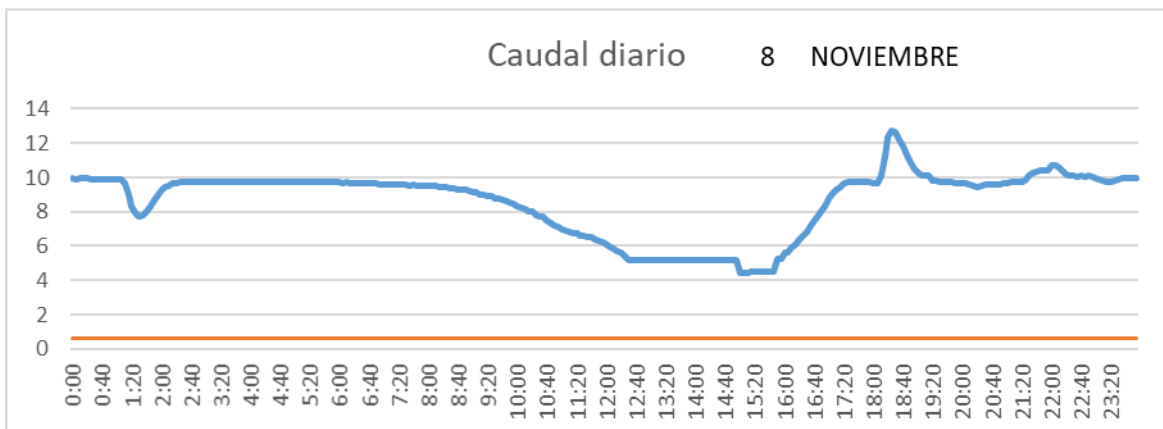
SAN LORENZO PARRILLA



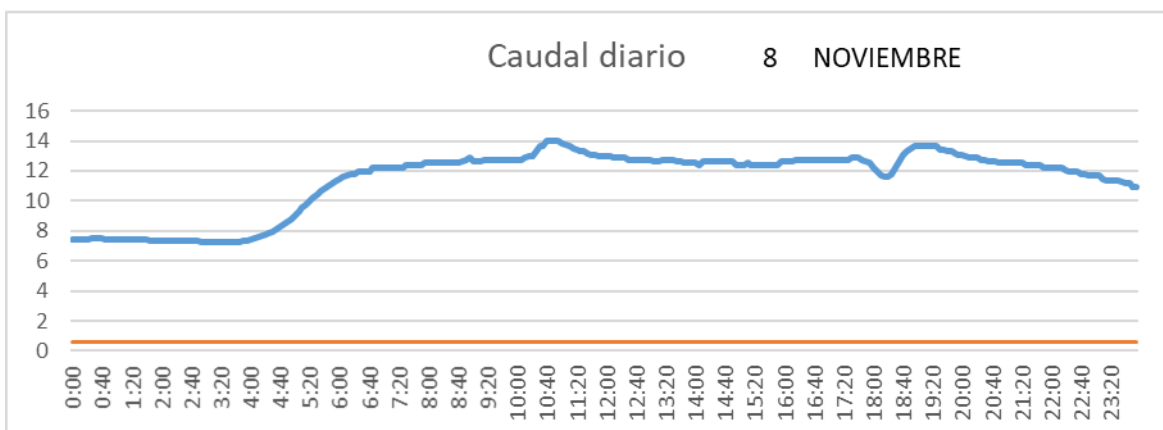
SALIDA TOBA



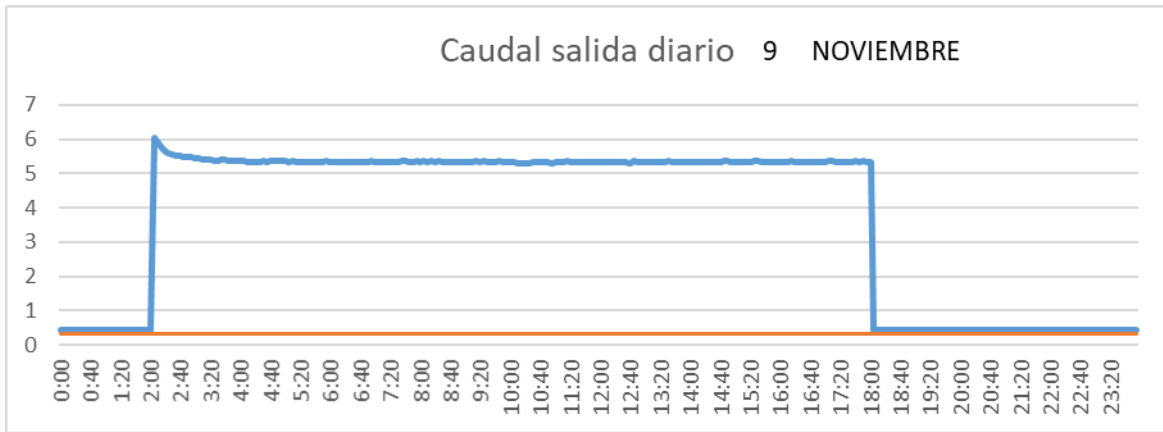
CUENCA



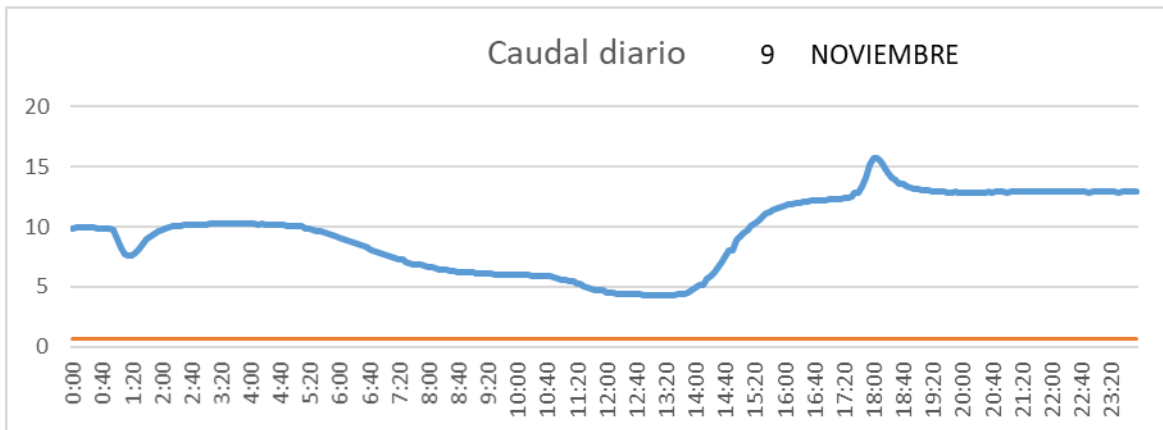
SAN LORENZO PARRILLA



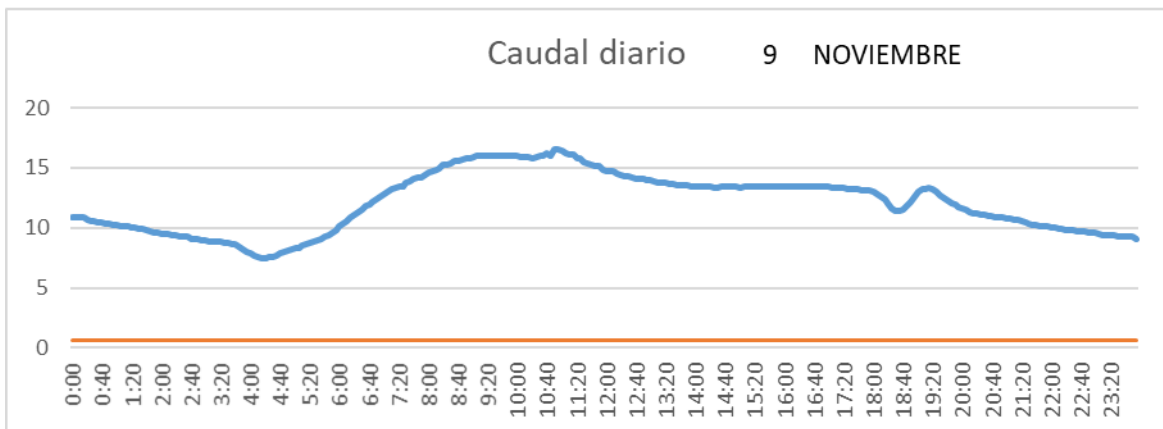
SALIDA TOBA



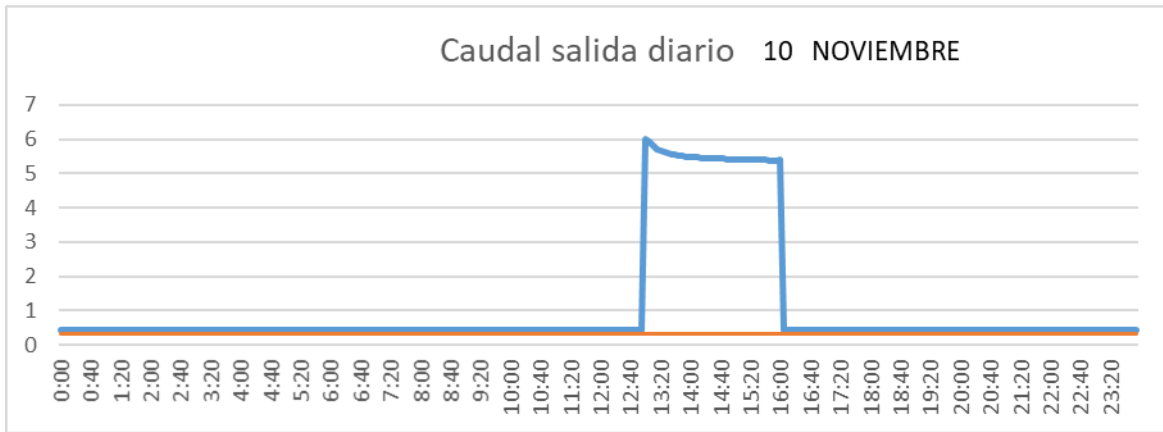
CUENCA



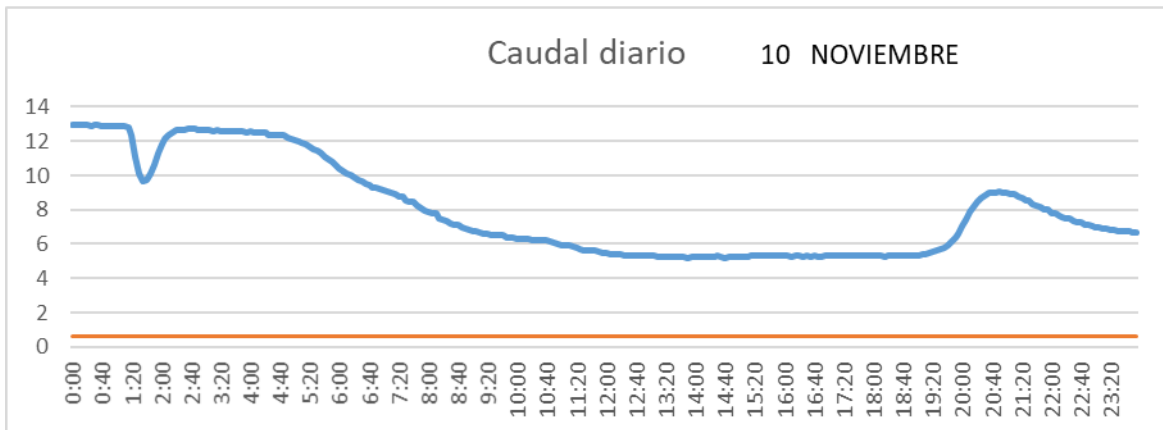
SAN LORENZO PARRILLA



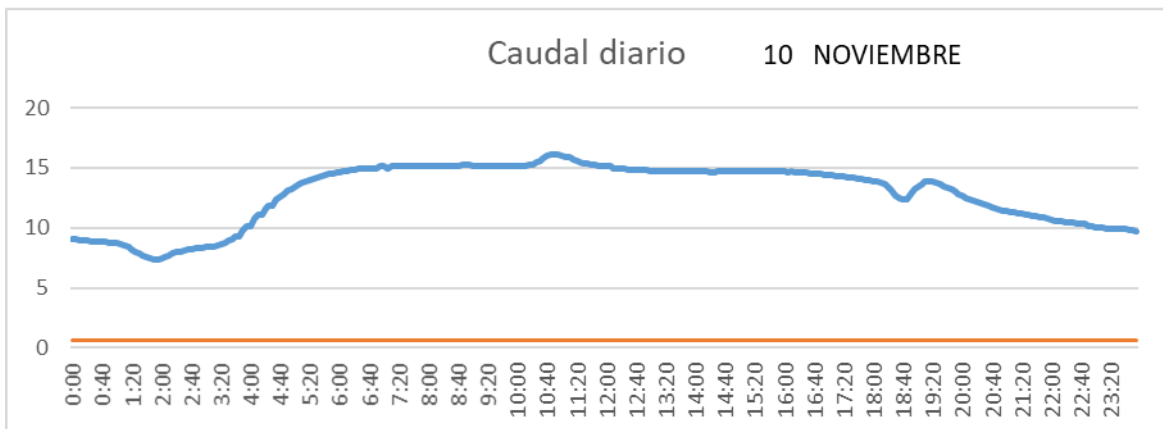
SALIDA TOBA



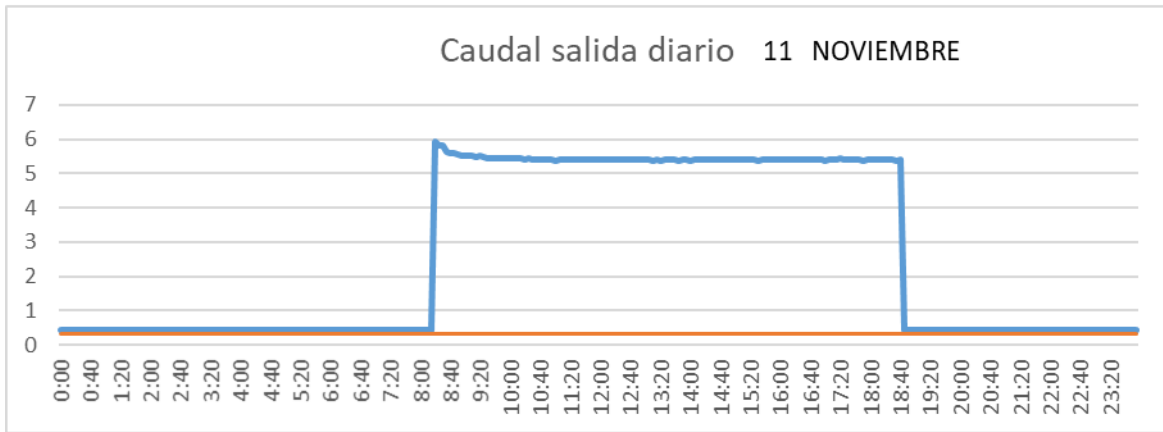
CUENCA



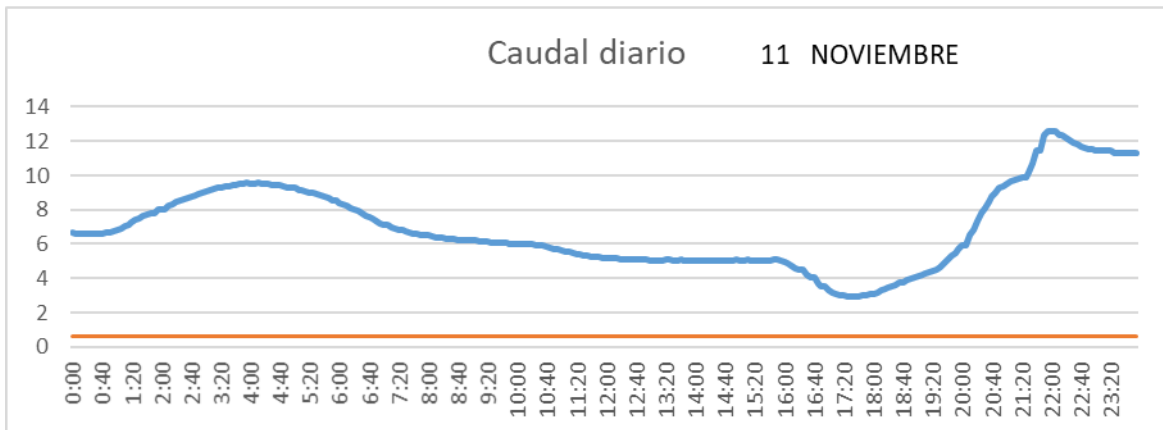
SAN LORENZO PARRILLA



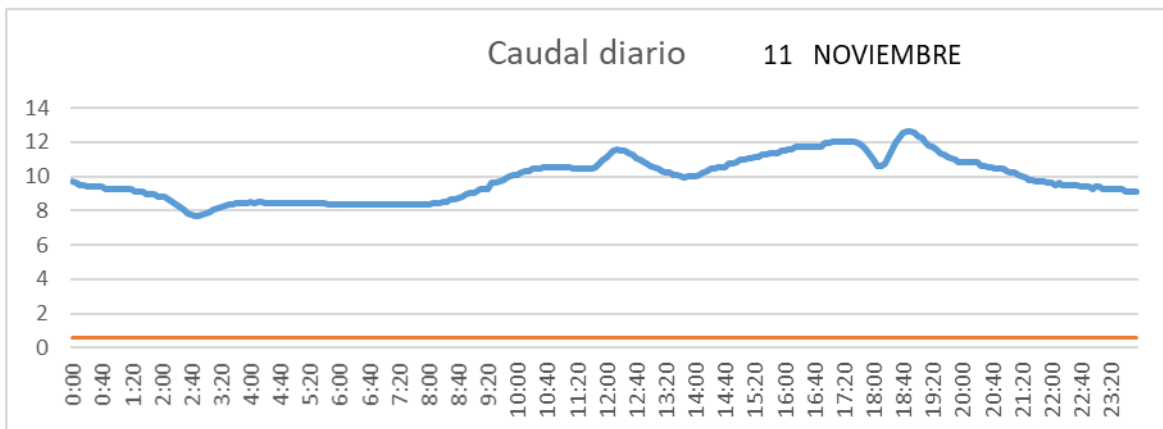
SALIDA TOBA



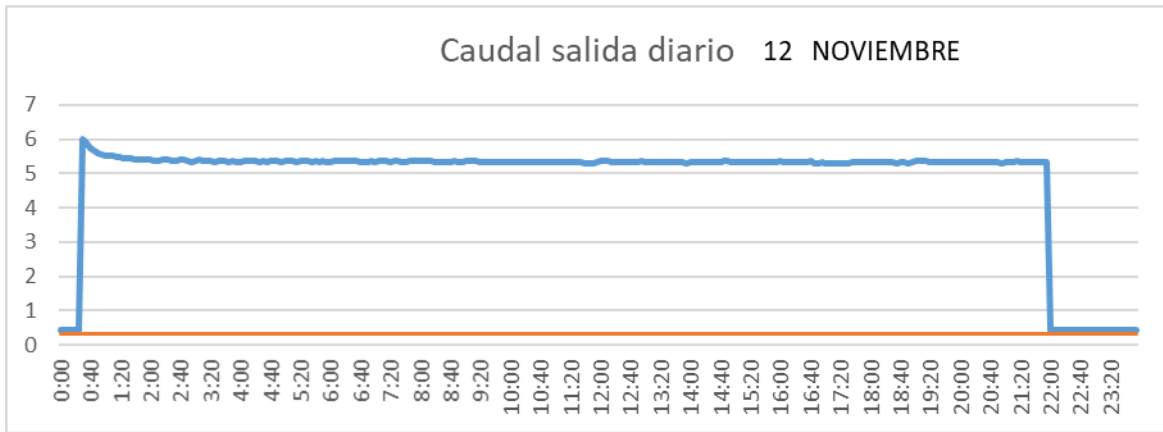
CUENCA



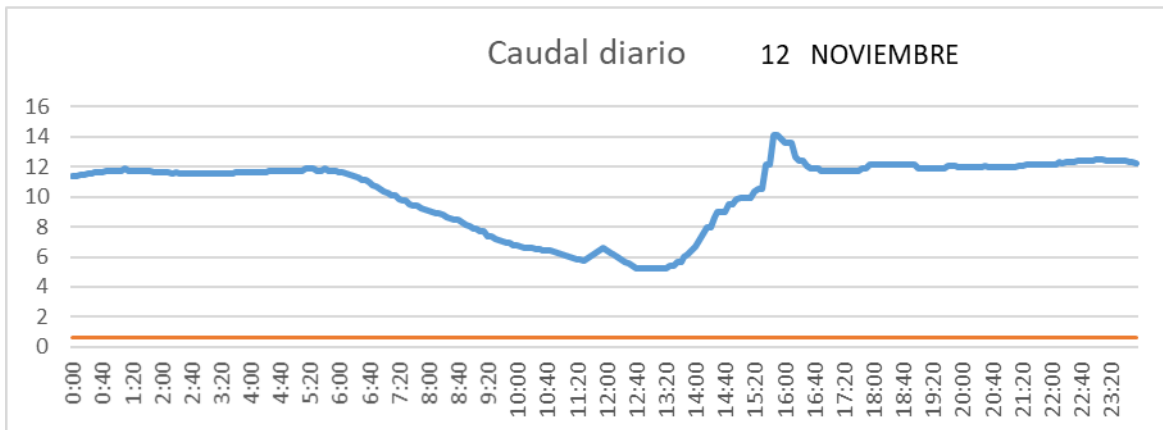
SAN LORENZO PARRILLA



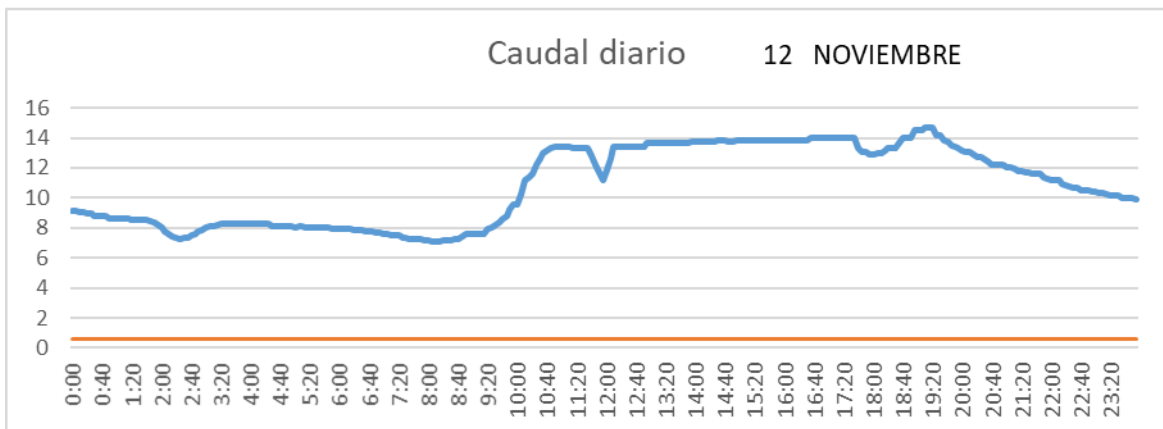
SALIDA TOBA



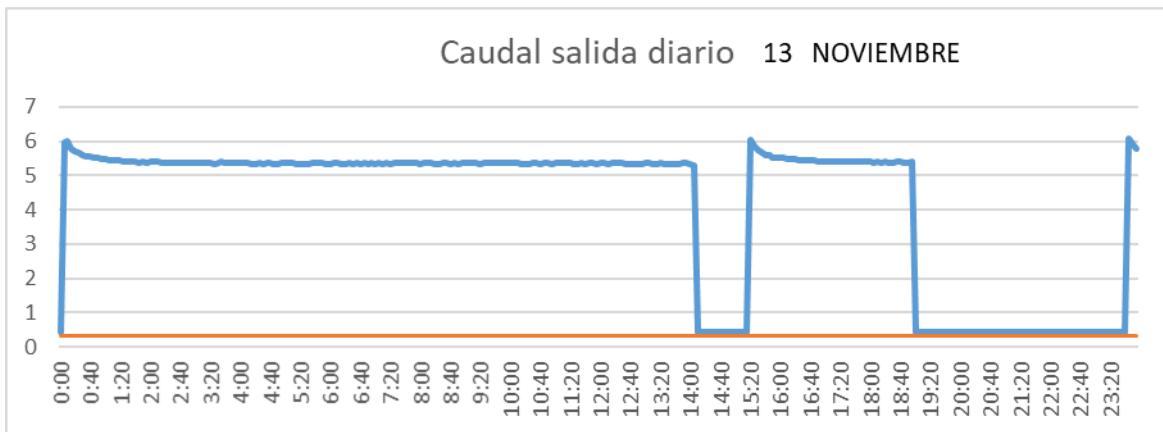
CUENCA



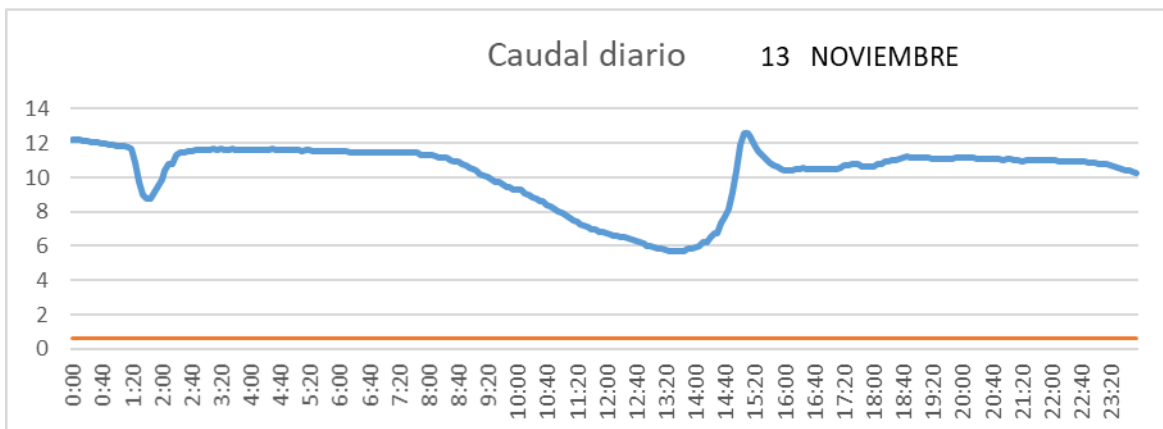
SAN LORENZO PARRILLA



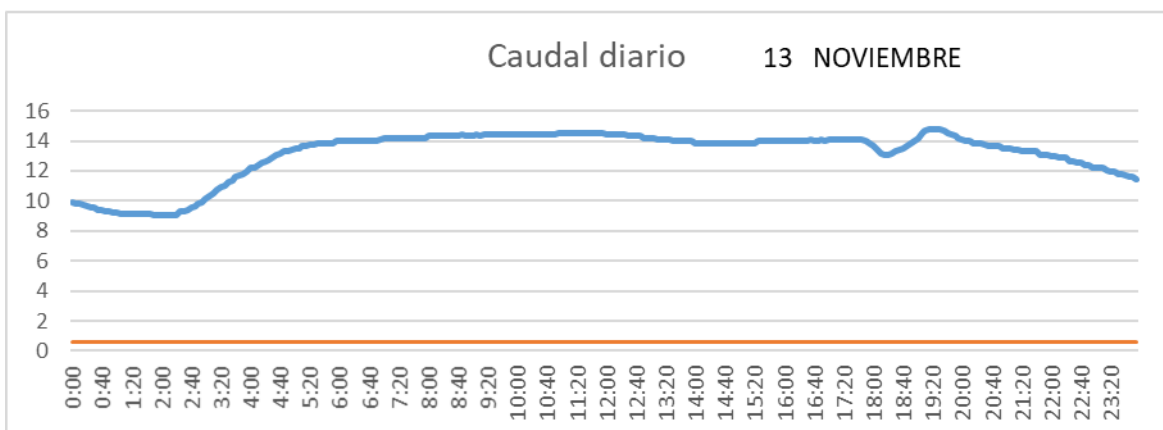
SALIDA TOBA



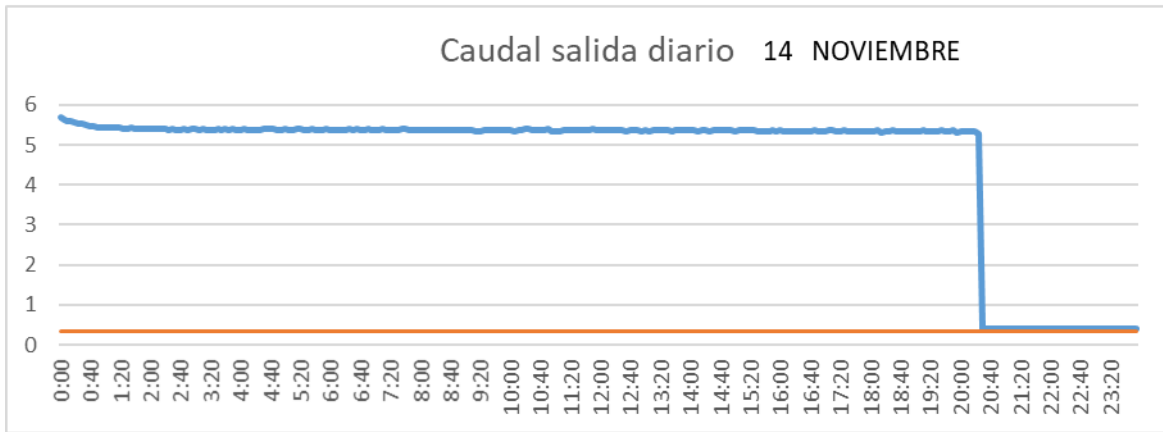
CUENCA



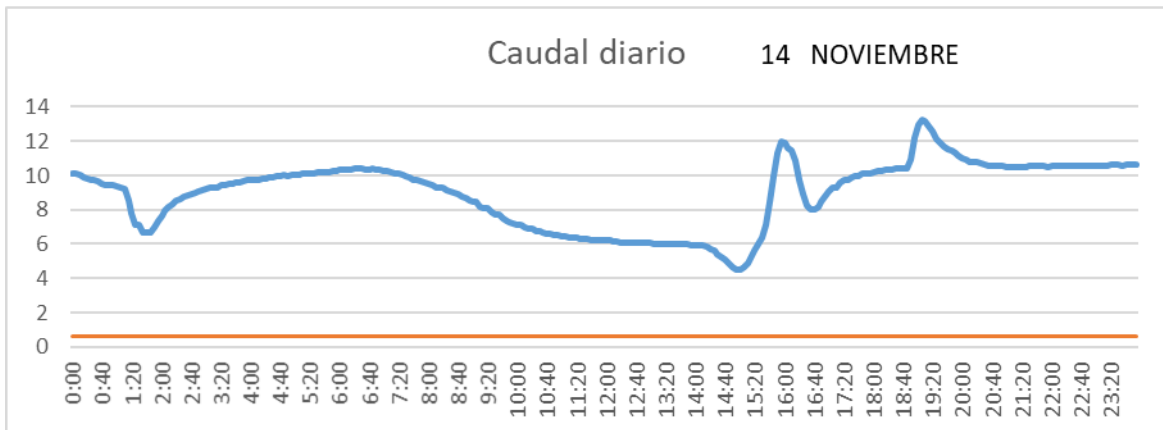
SAN LORENZO PARRILLA



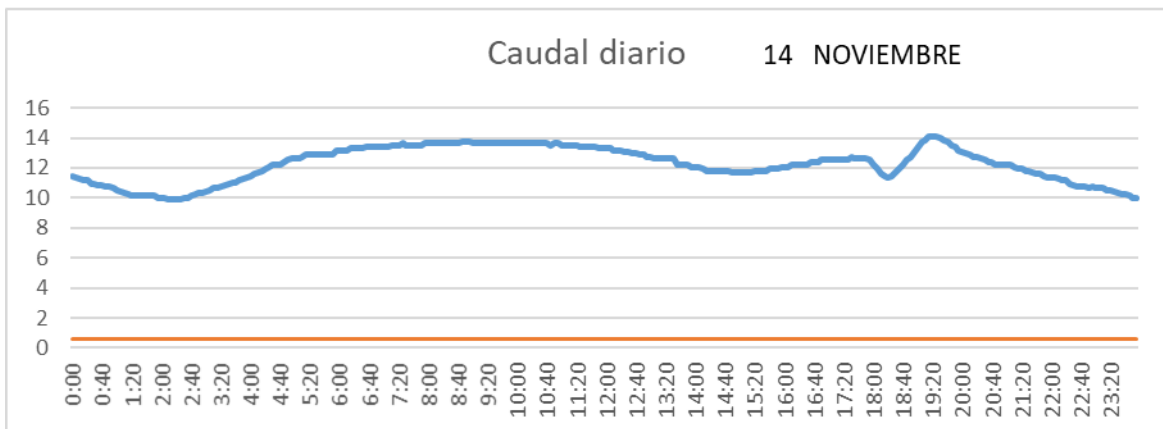
SALIDA TOBA



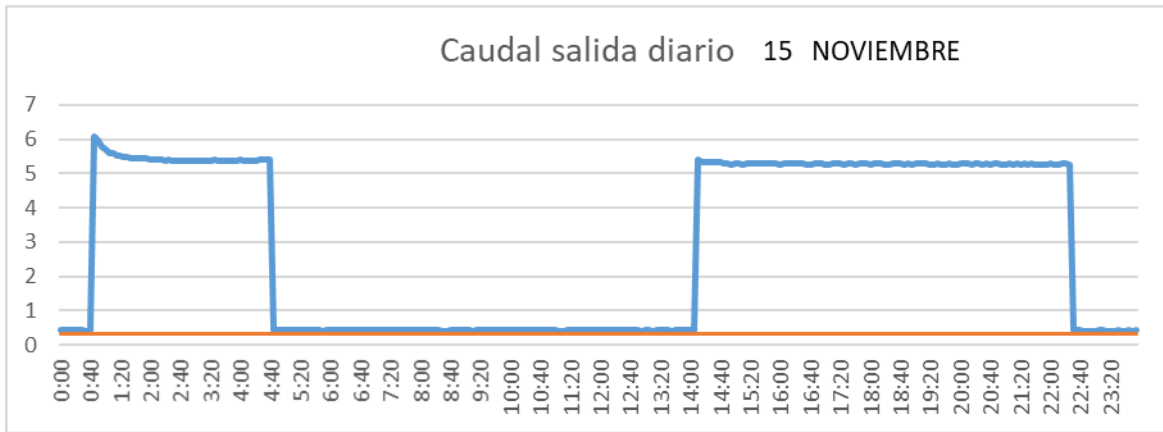
CUENCA



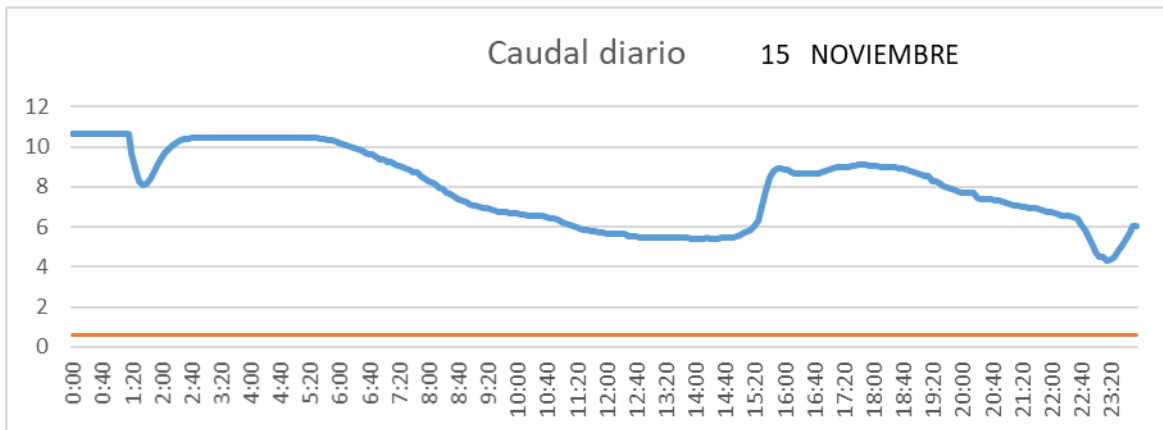
SAN LORENZO PARRILLA



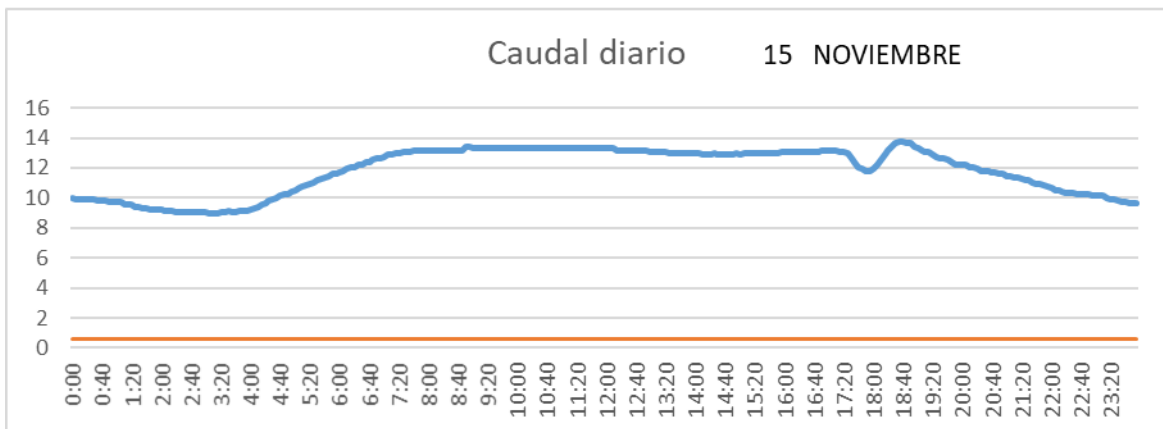
SALIDA TOBA



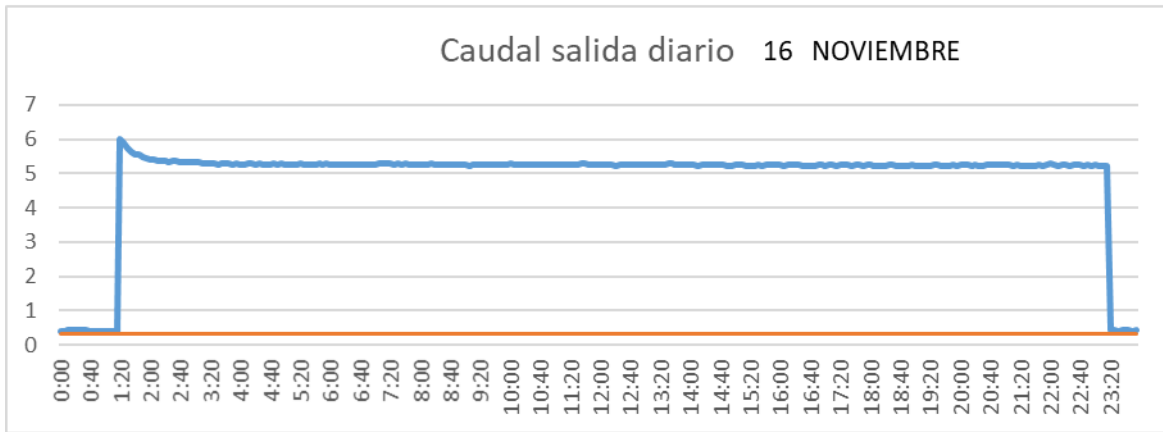
CUENCA



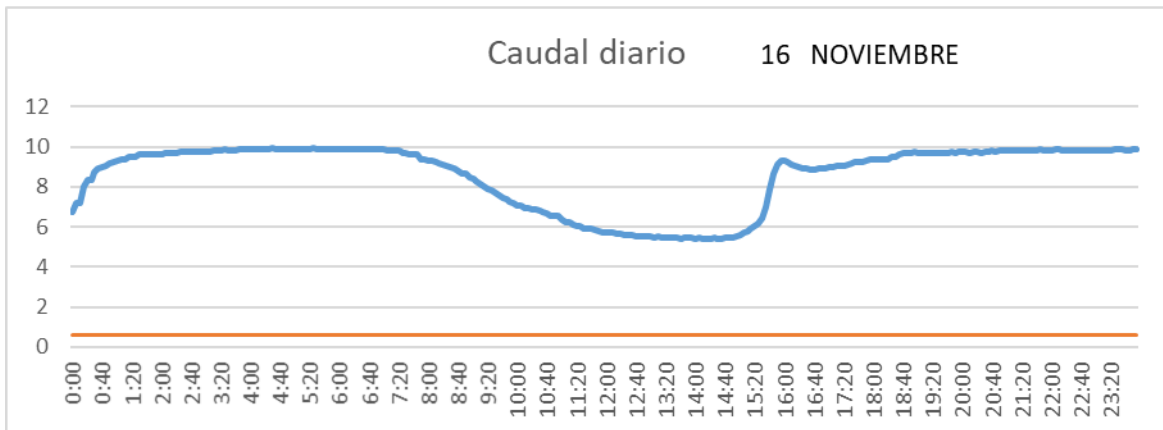
SAN LORENZO PARRILLA



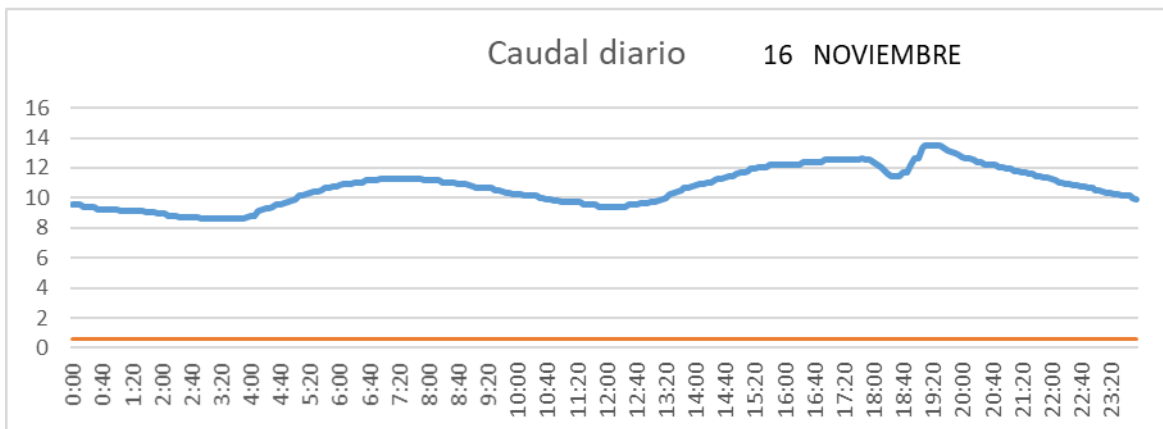
SALIDA TOBA



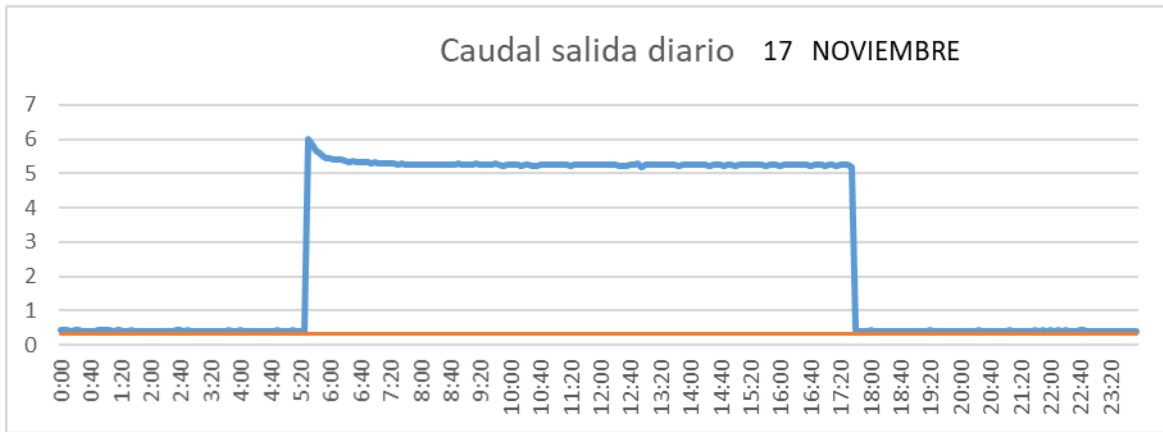
CUENCA



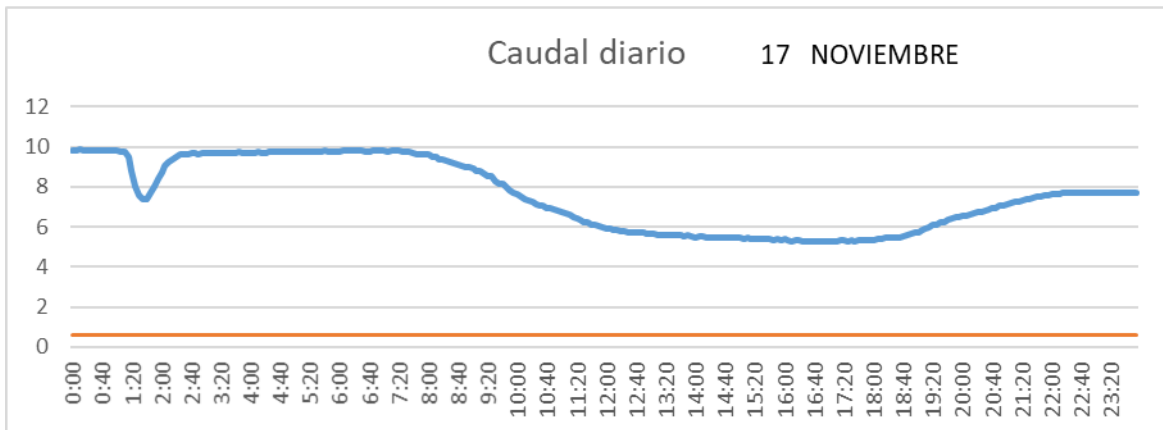
SAN LORENZO PARRILLA



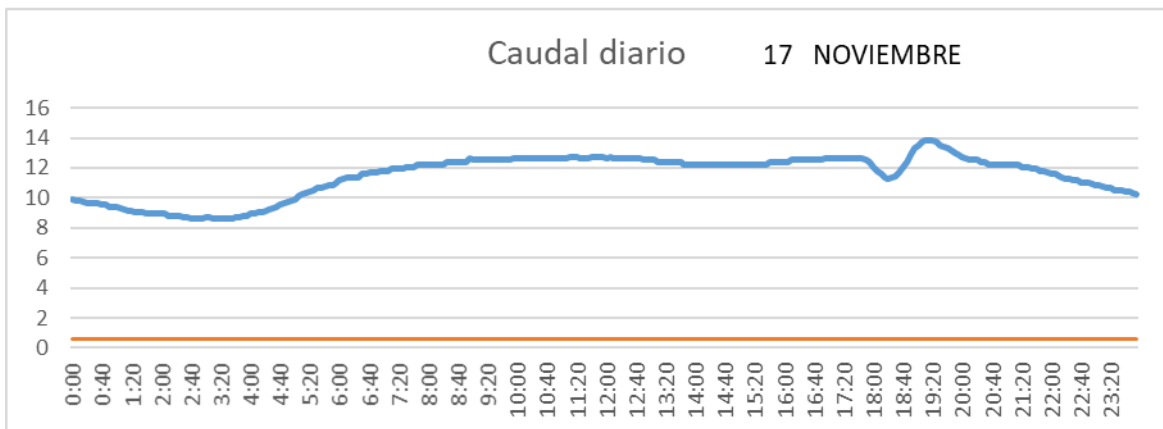
SALIDA TOBA



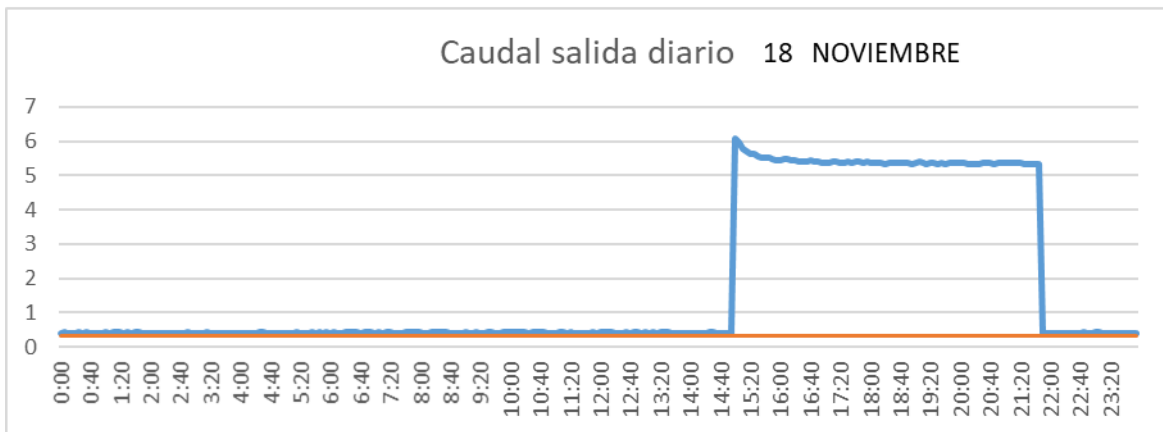
CUENCA



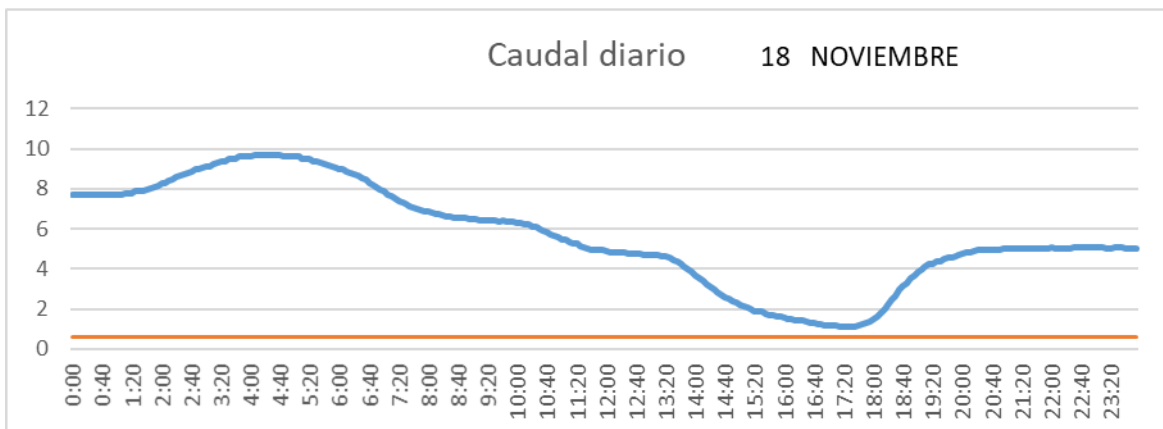
SAN LORENZO PARRILLA



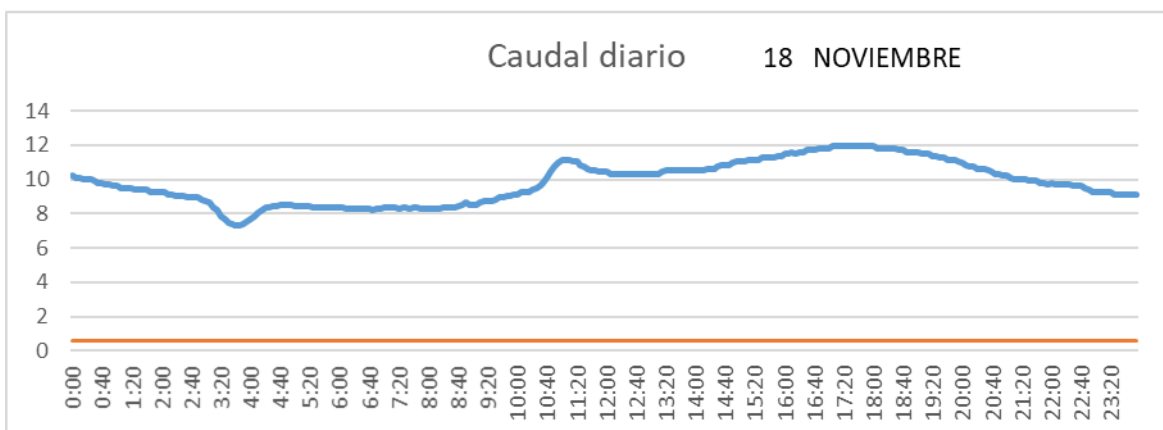
SALIDA TOBA



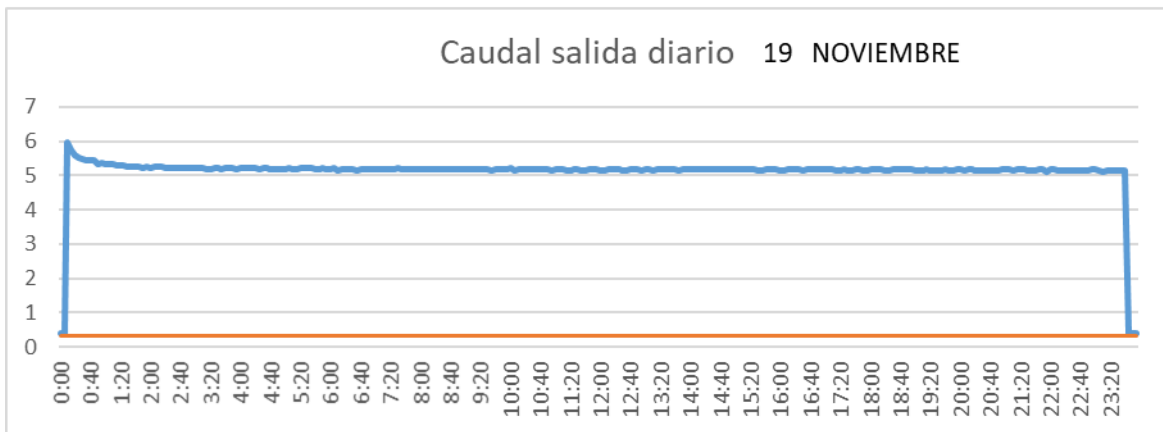
CUENCA



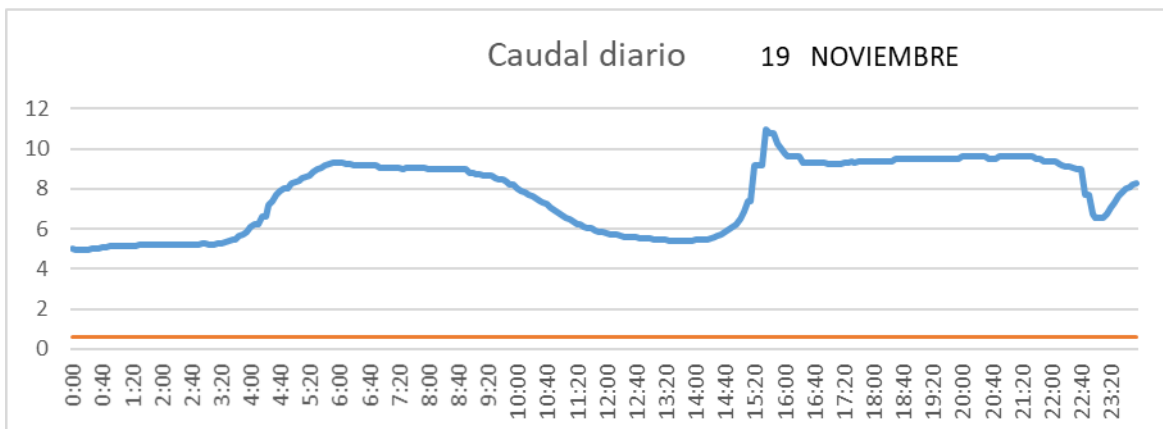
SAN LORENZO PARRILLA



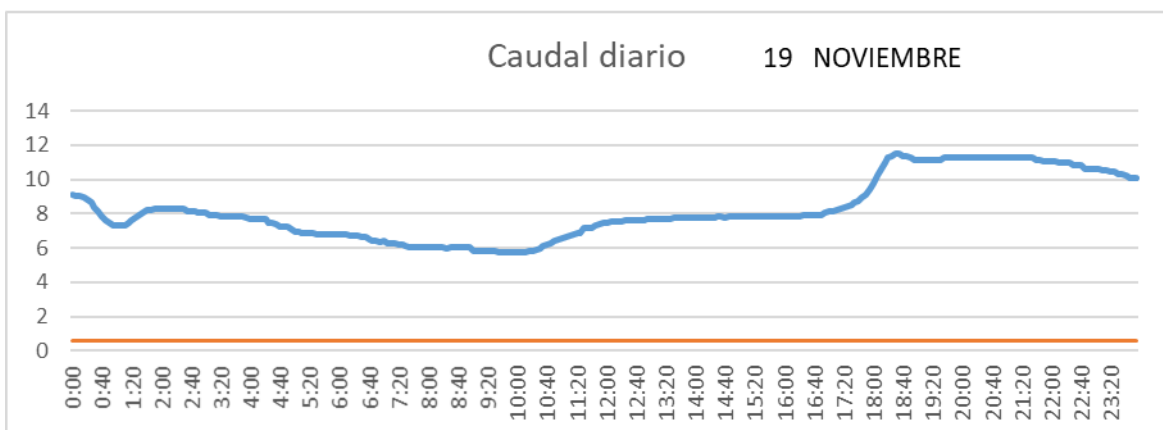
SALIDA TOBA



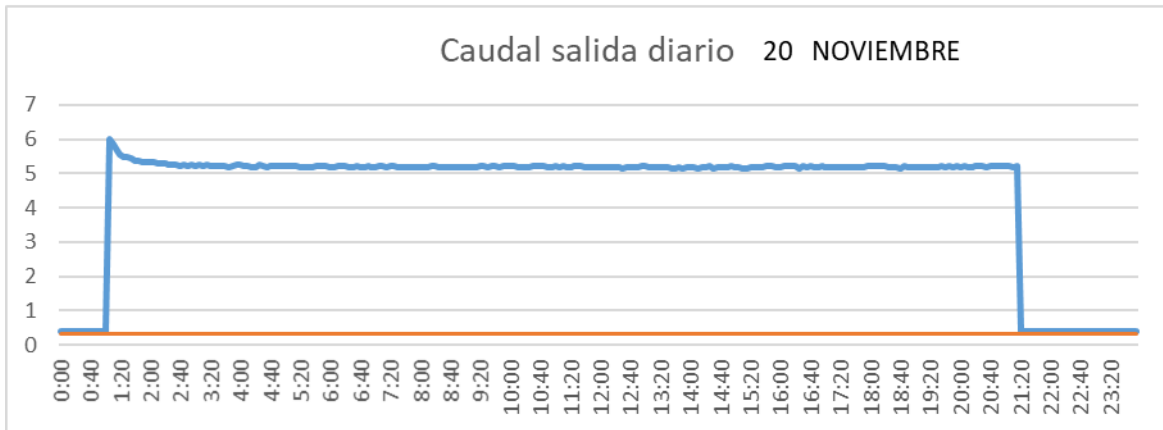
CUENCA



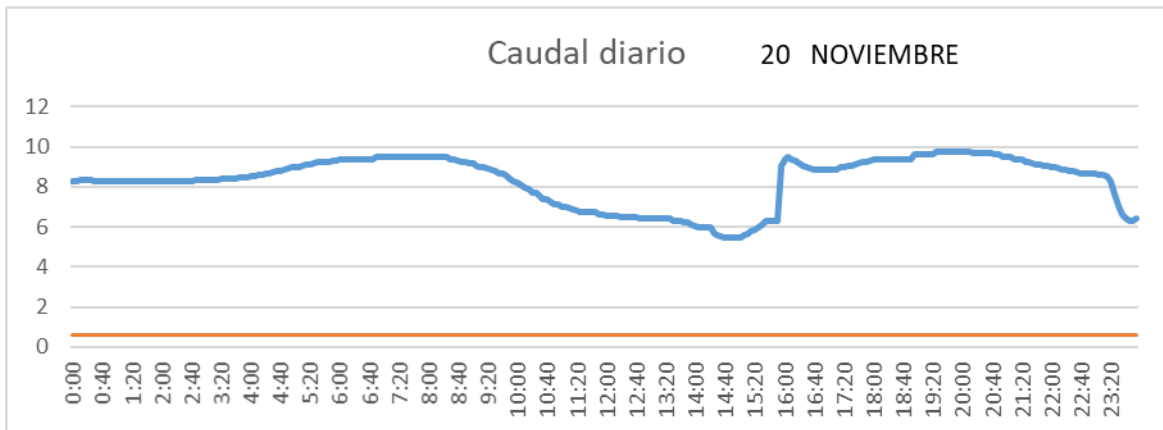
SAN LORENZO PARRILLA



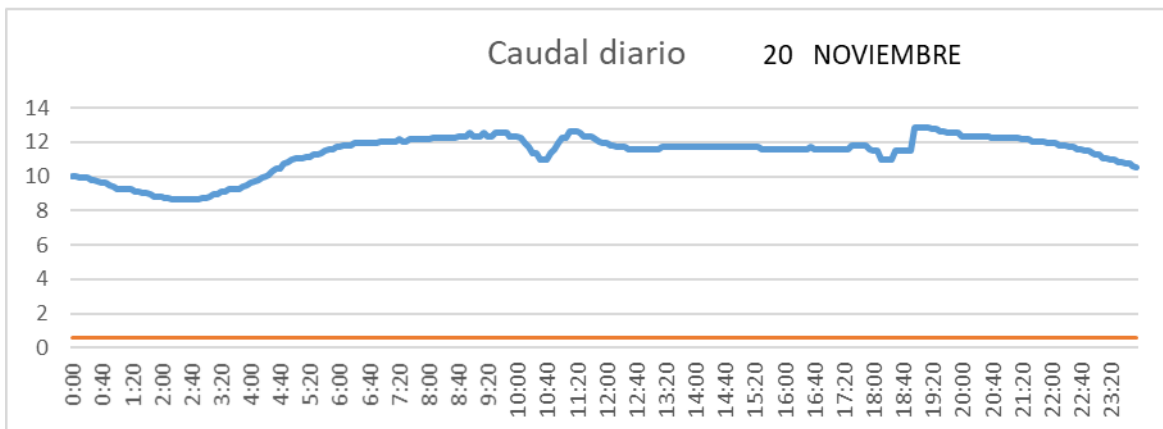
SALIDA TOBA



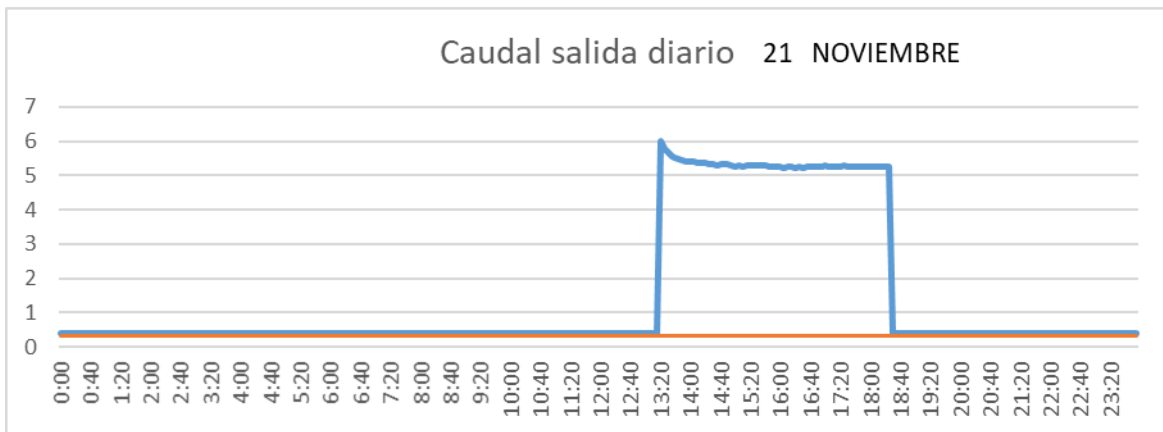
CUENCA



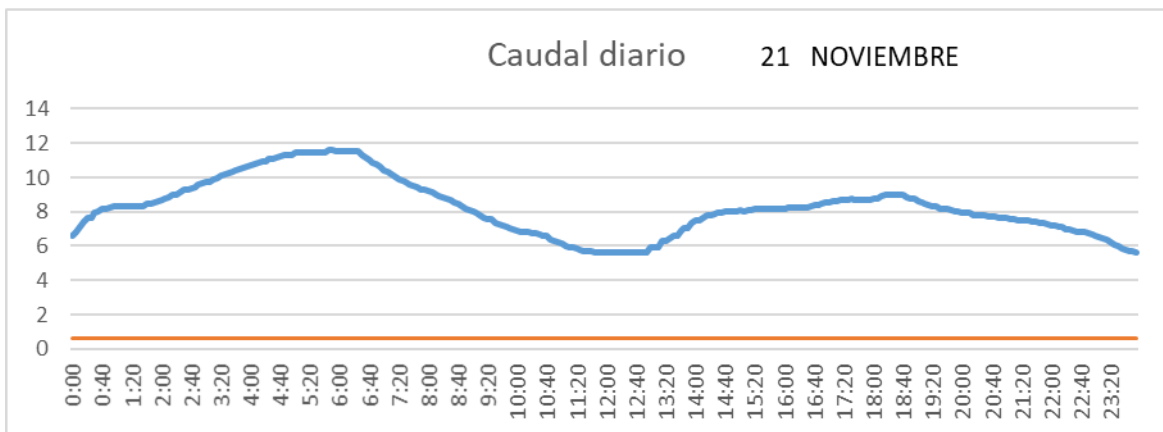
SAN LORENZO PARRILLA



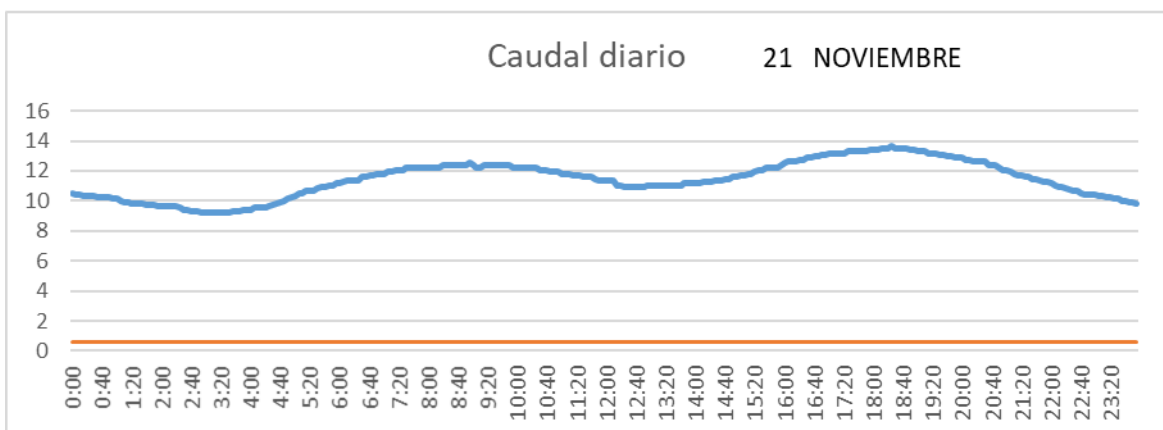
SALIDA TOBA



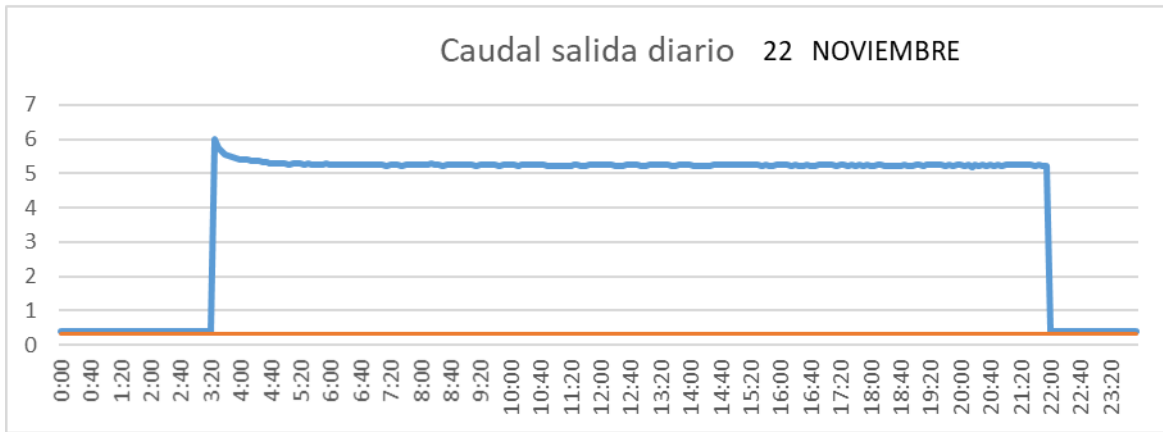
CUENCA



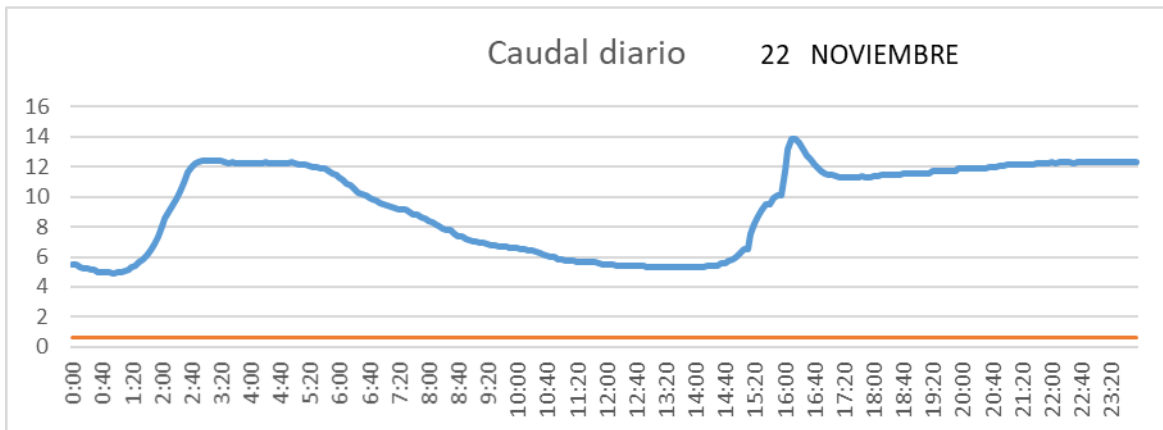
SAN LORENZO PARRILLA



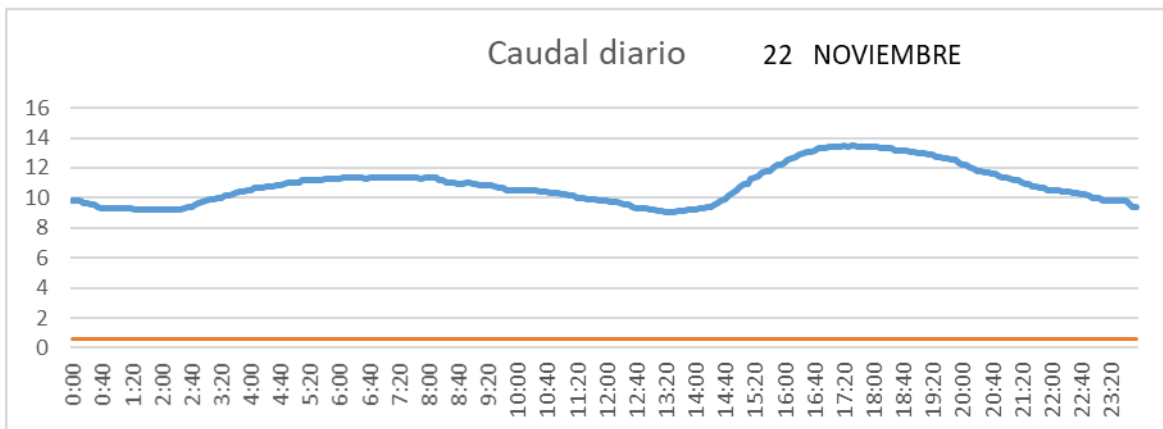
SALIDA TOBA



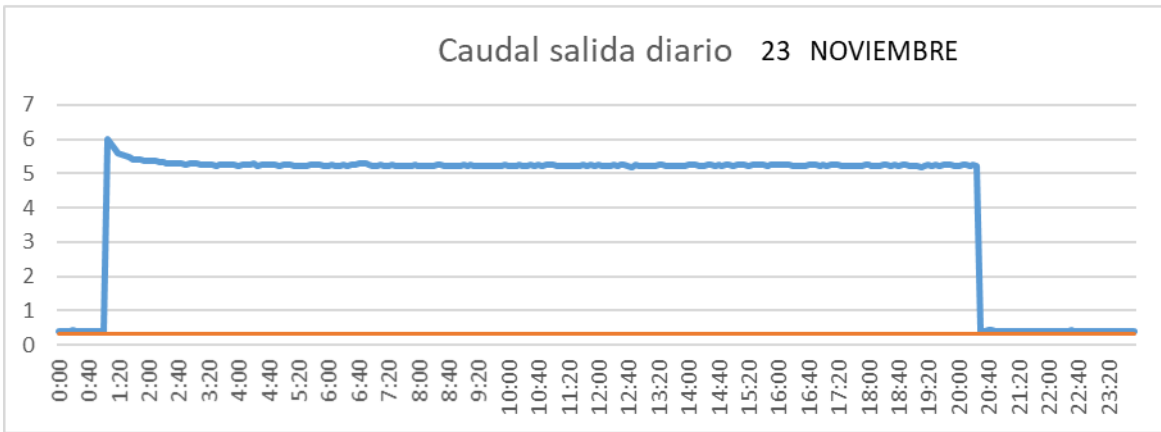
CUENCA



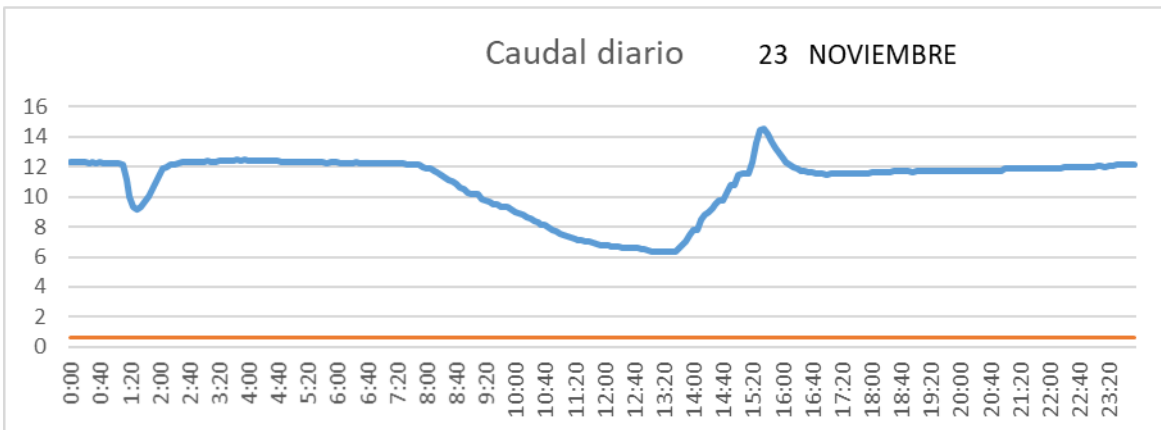
SAN LORENZO PARRILLA



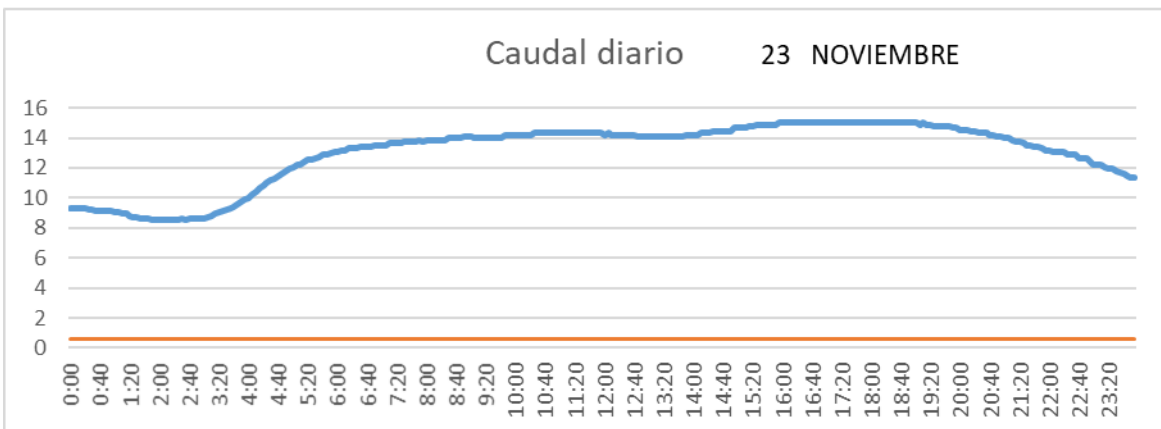
SALIDA TOBA



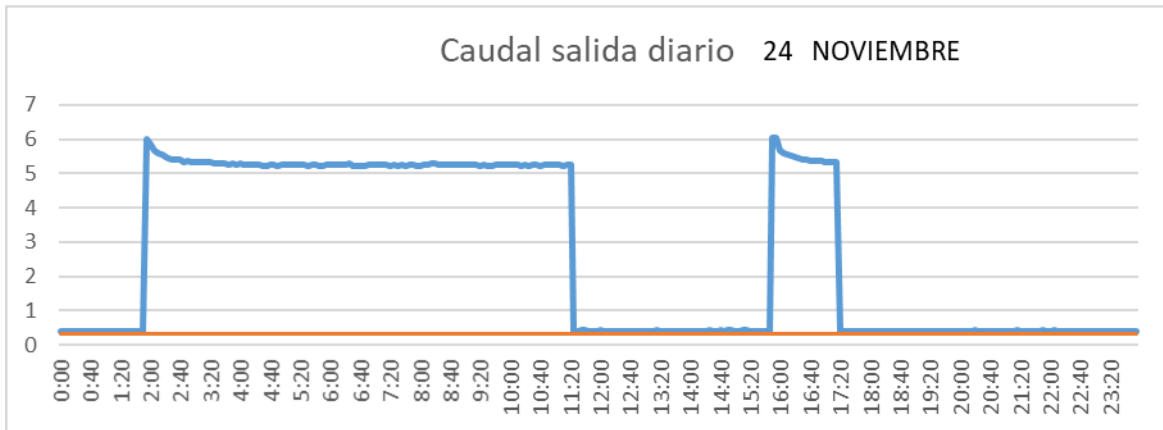
CUENCA



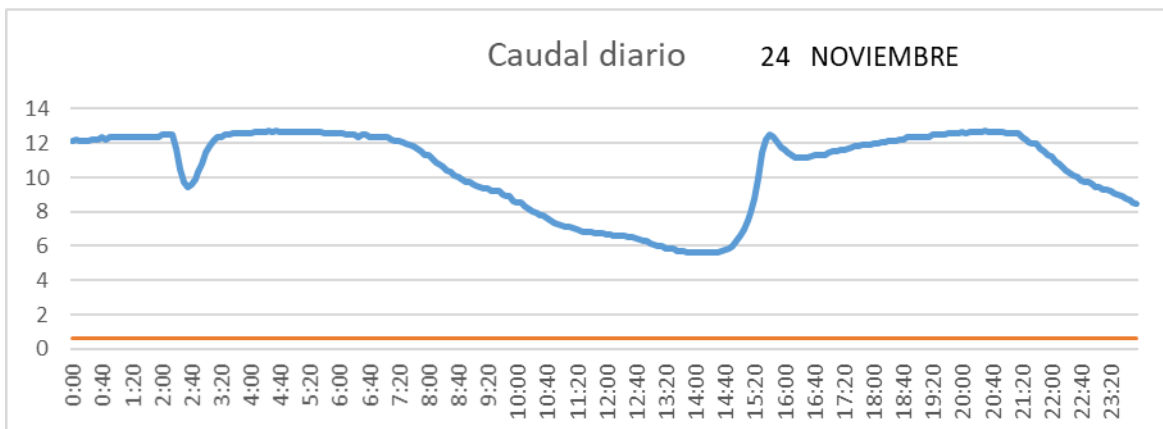
SAN LORENZO PARRILLA



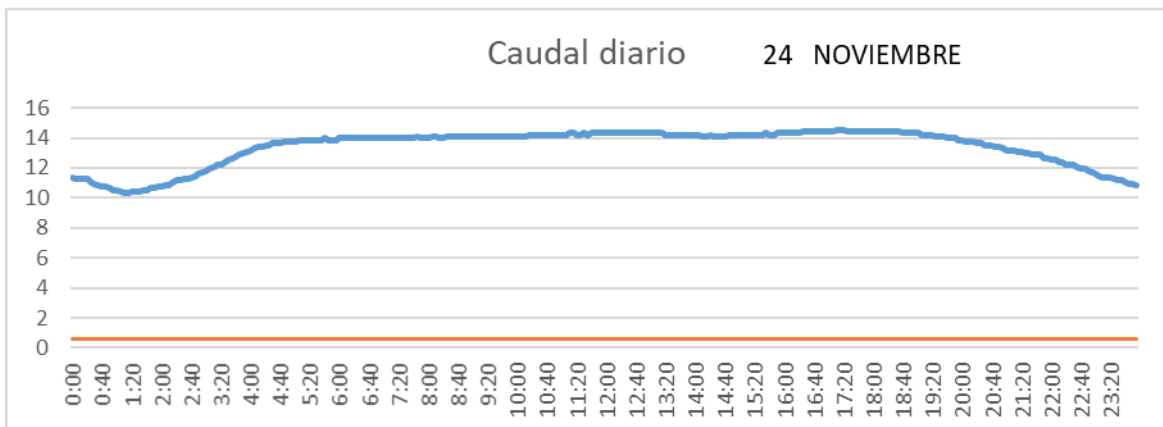
SALIDA TOBA



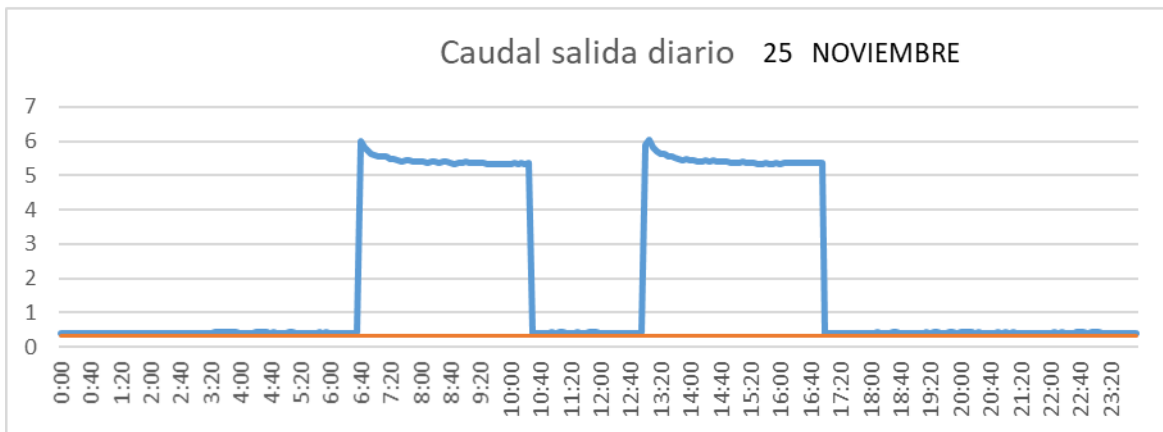
CUENCA



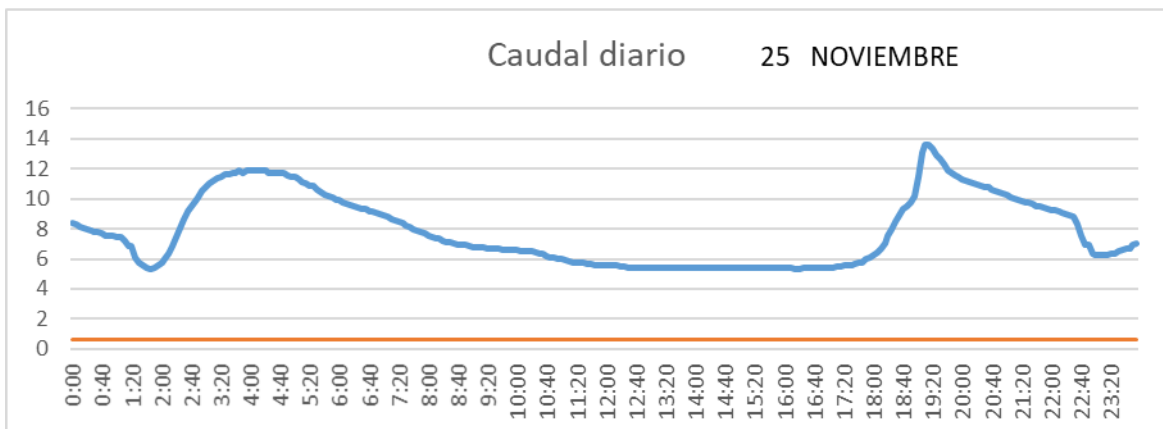
SAN LORENZO PARRILLA



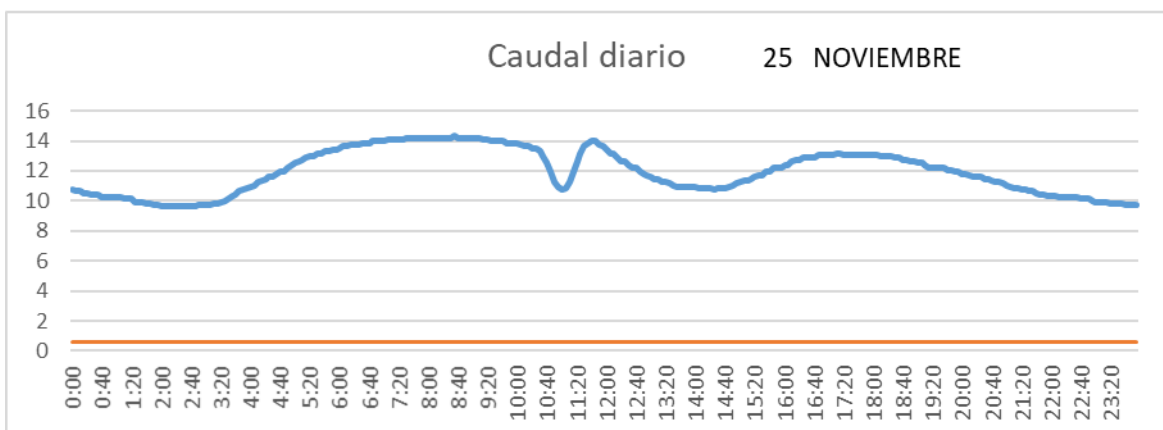
SALIDA TOBA



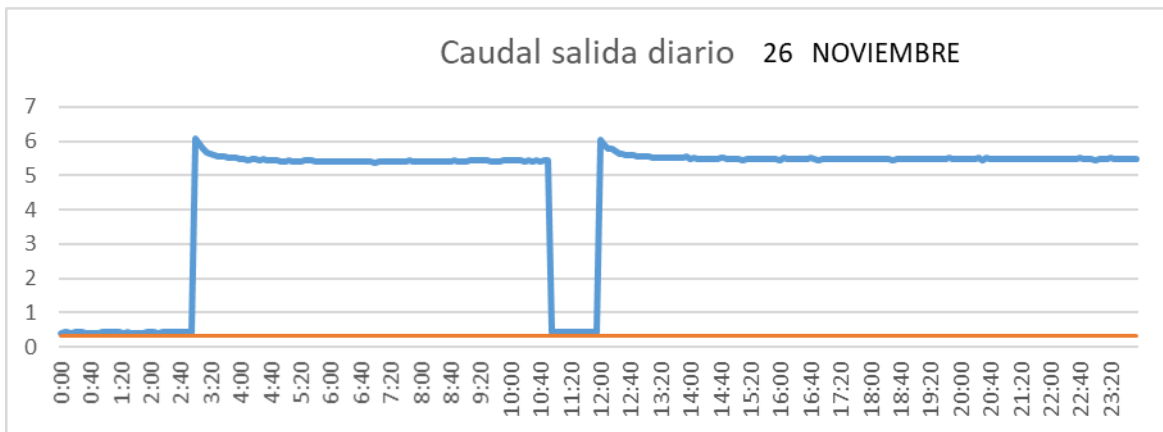
CUENCA



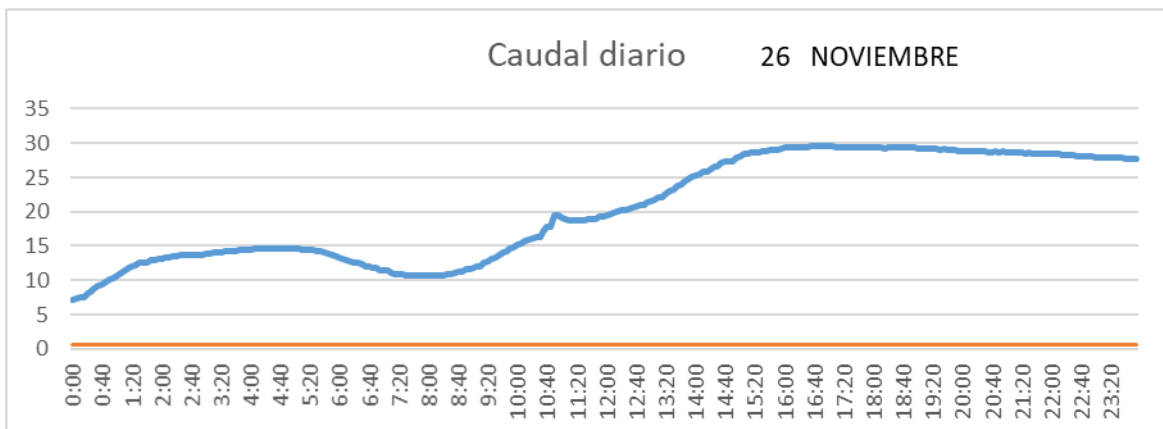
SAN LORENZO PARRILLA



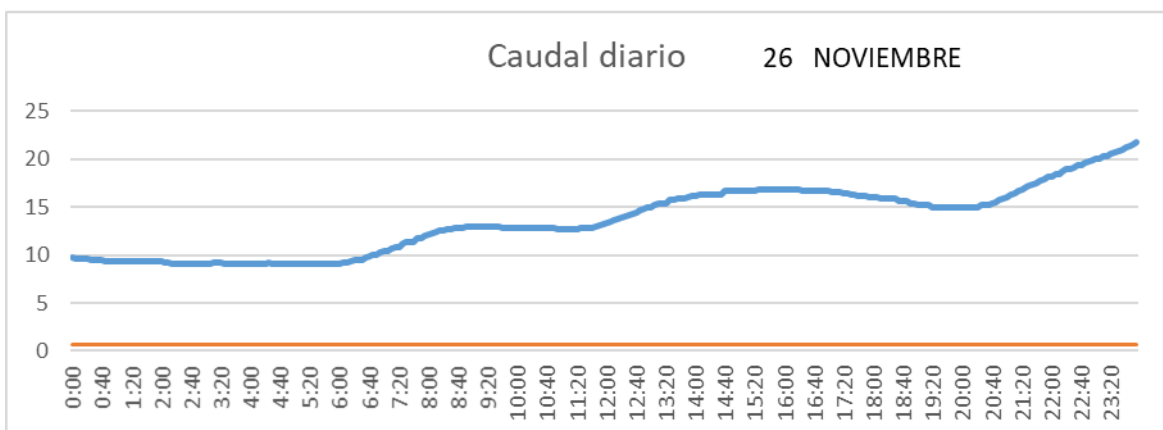
SALIDA TOBA



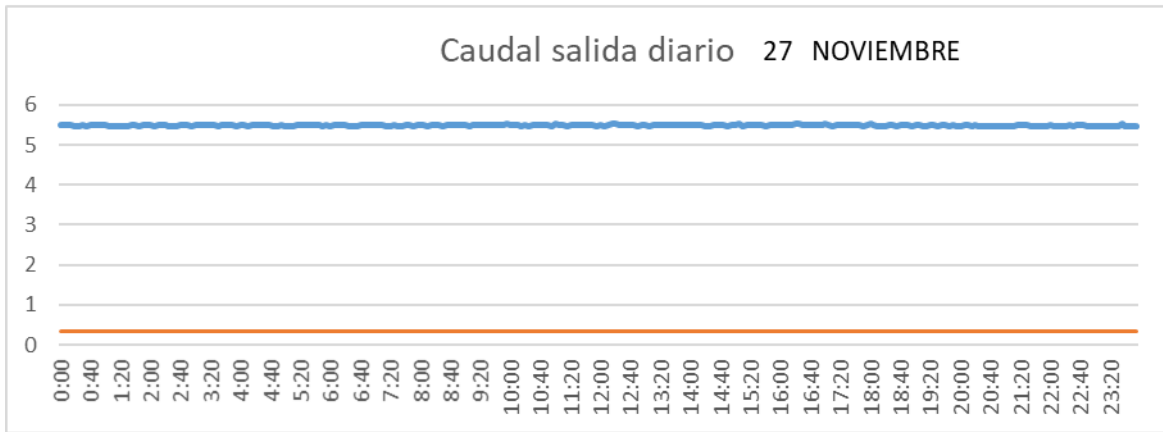
CUENCA



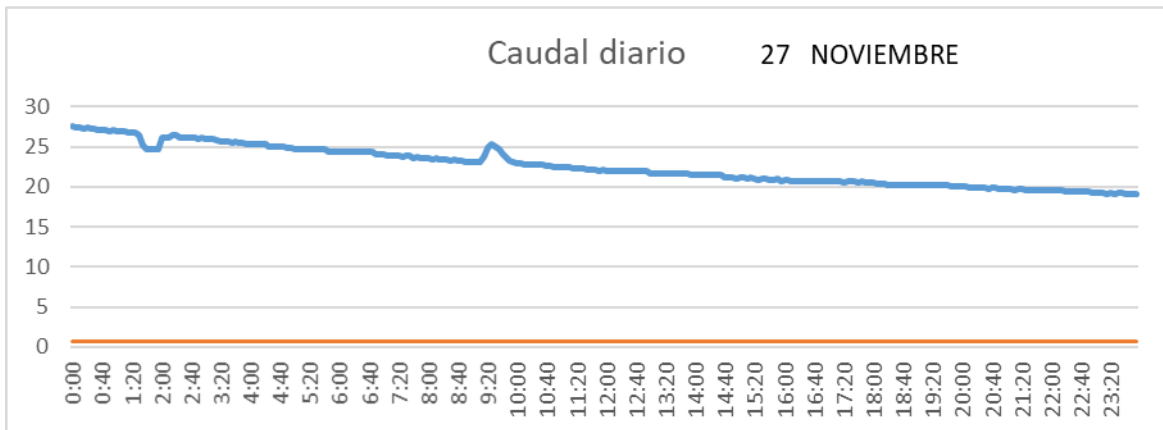
SAN LORENZO PARRILLA



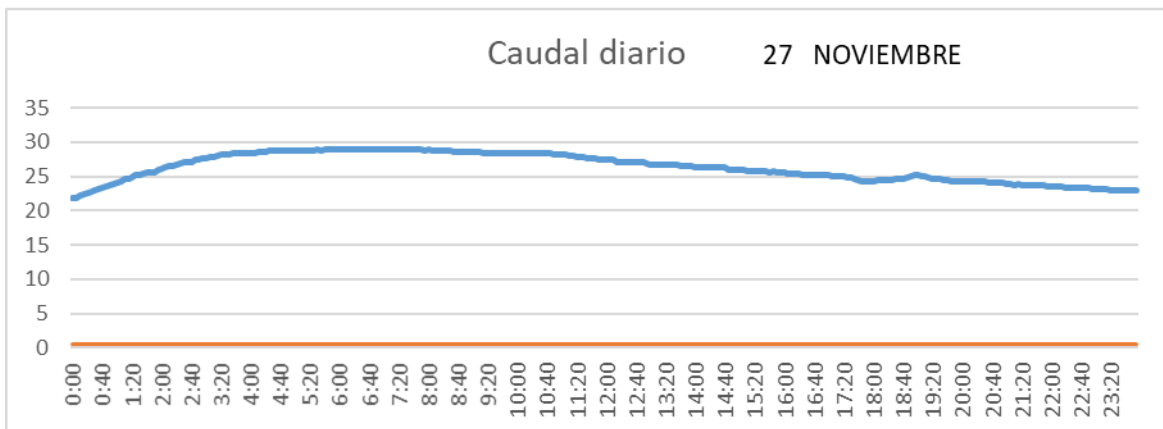
SALIDA TOBA



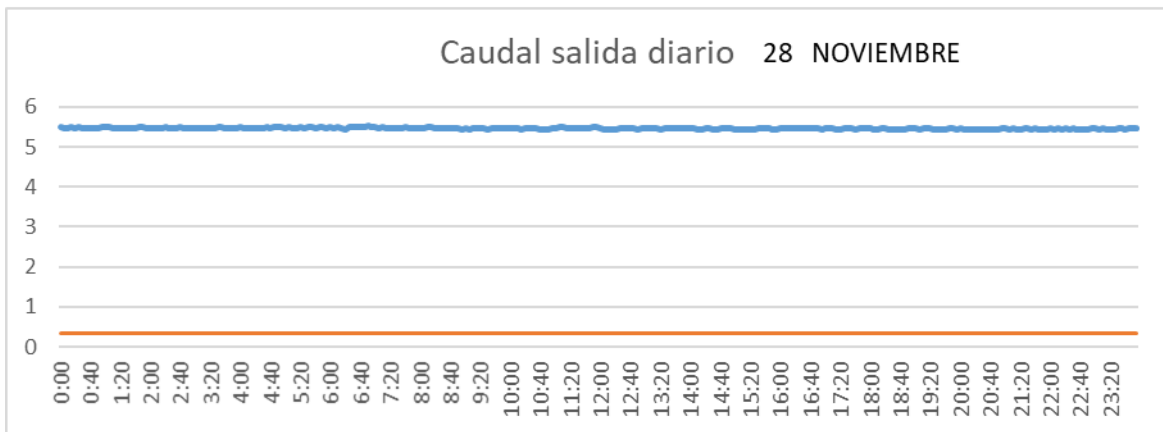
CUENCA



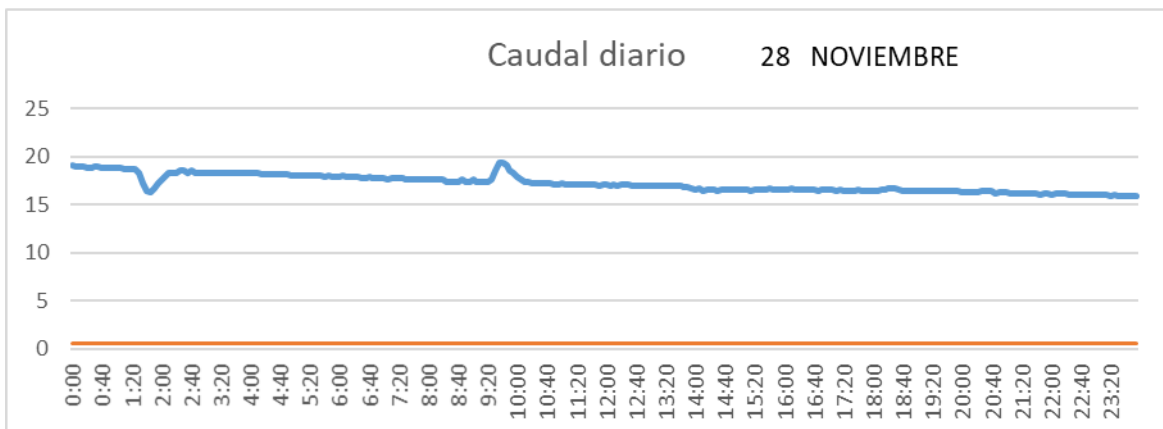
SAN LORENZO PARRILLA



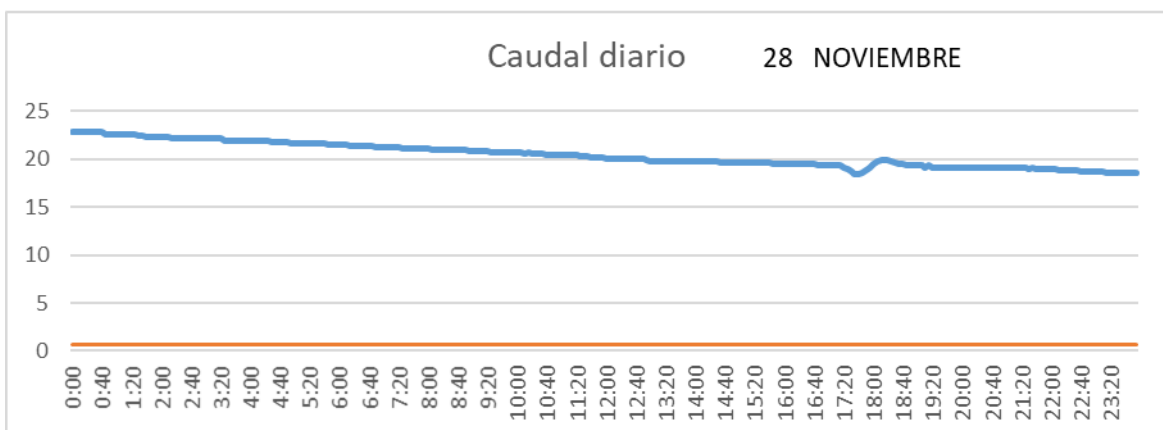
SALIDA TOBA



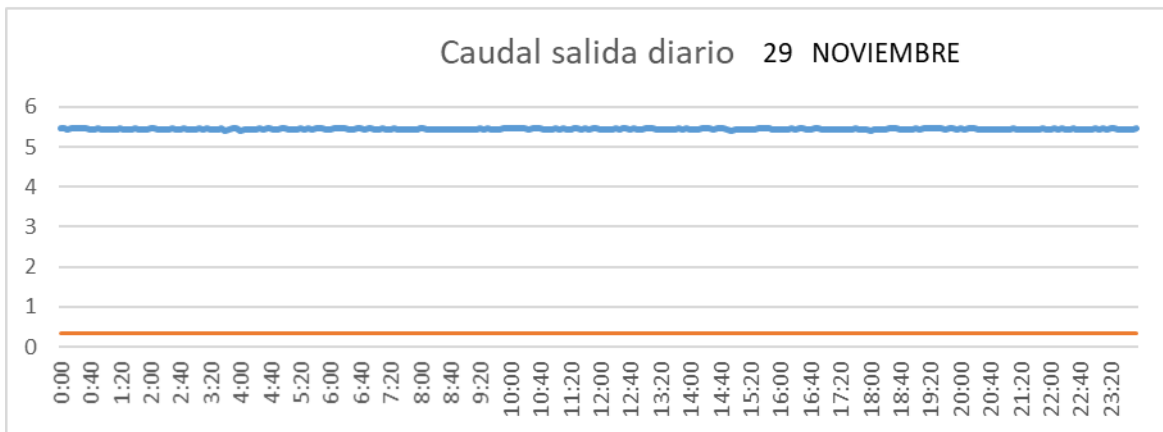
CUENCA



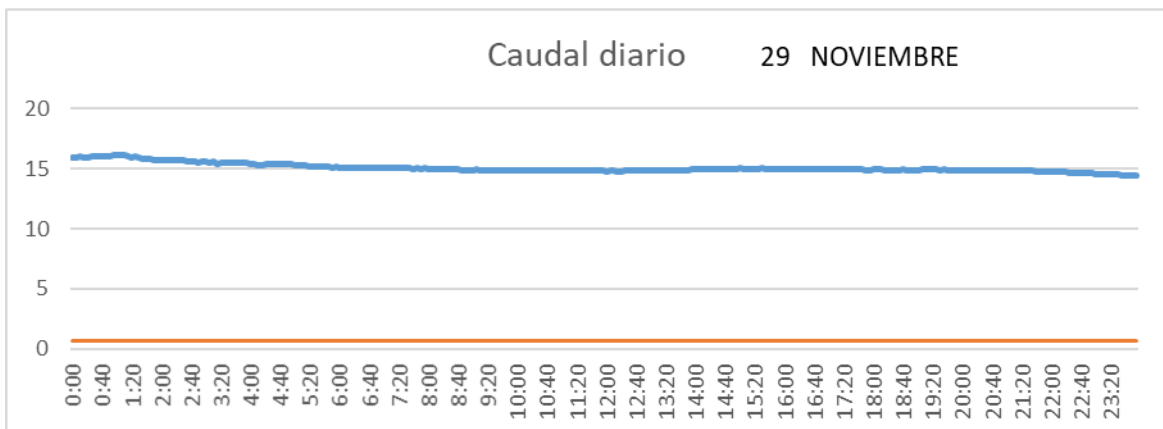
SAN LORENZO PARRILLA



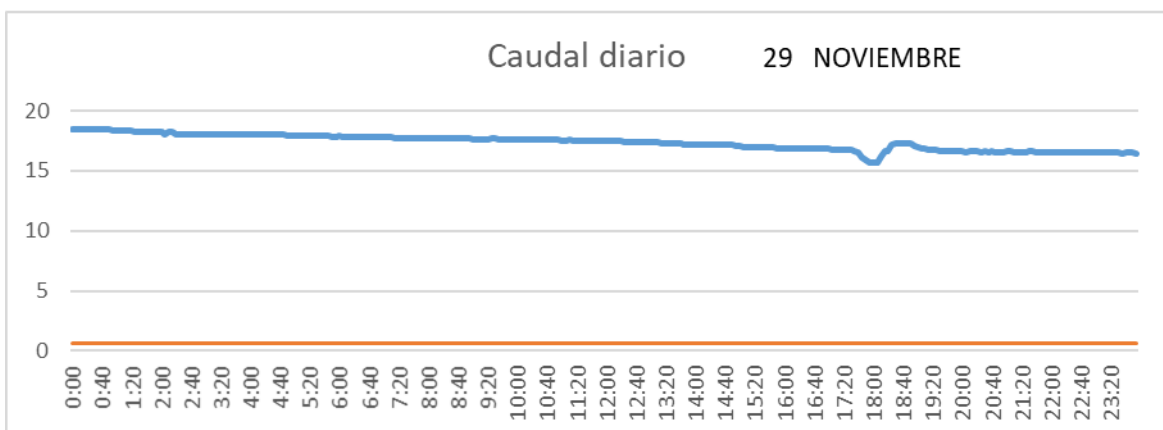
SALIDA TOBA



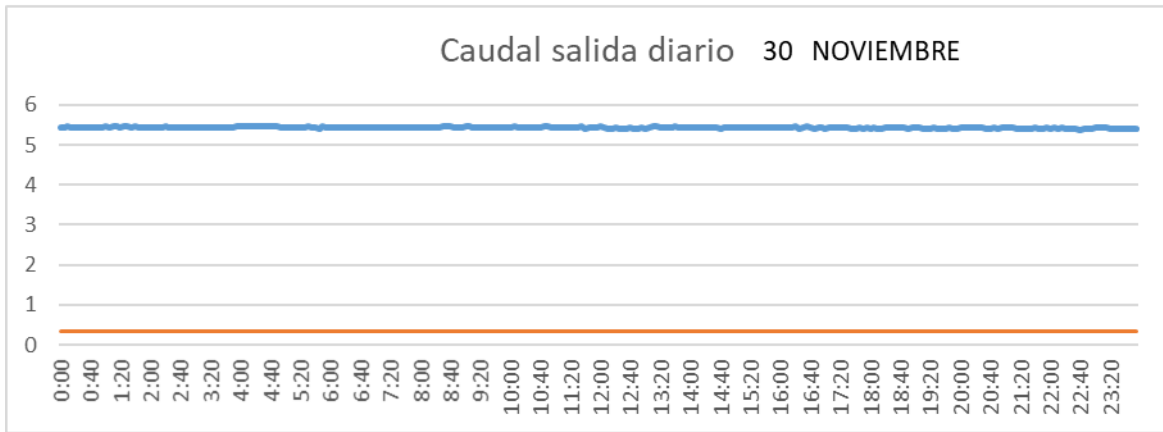
CUENCA



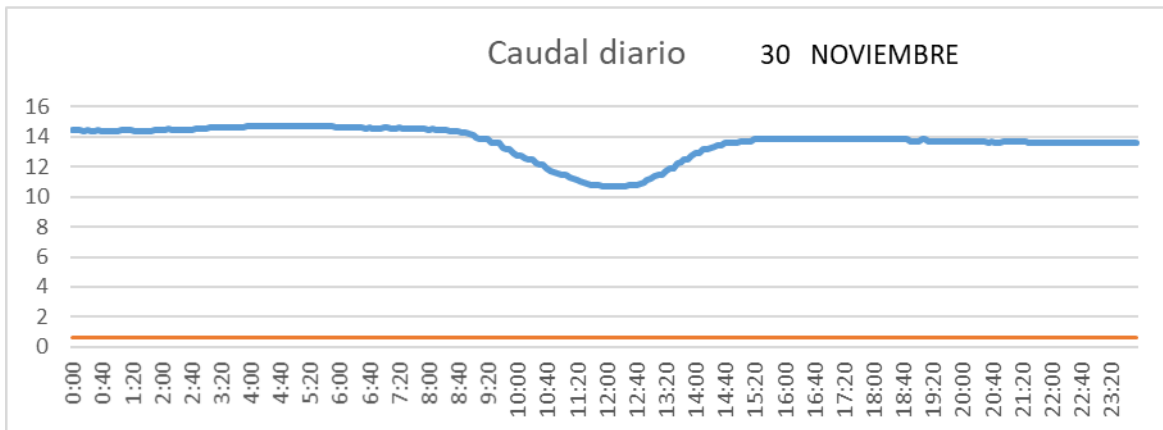
SAN LORENZO PARRILLA



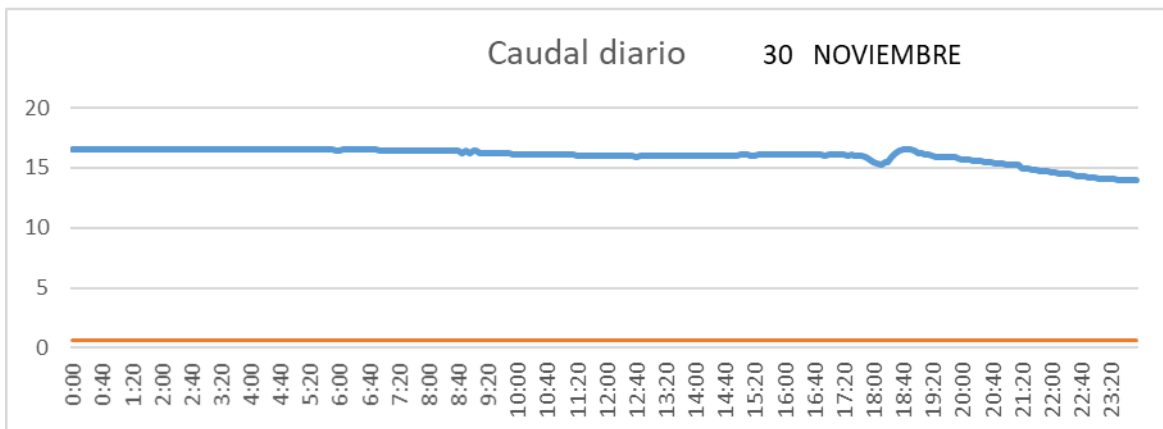
SALIDA TOBA



CUENCA

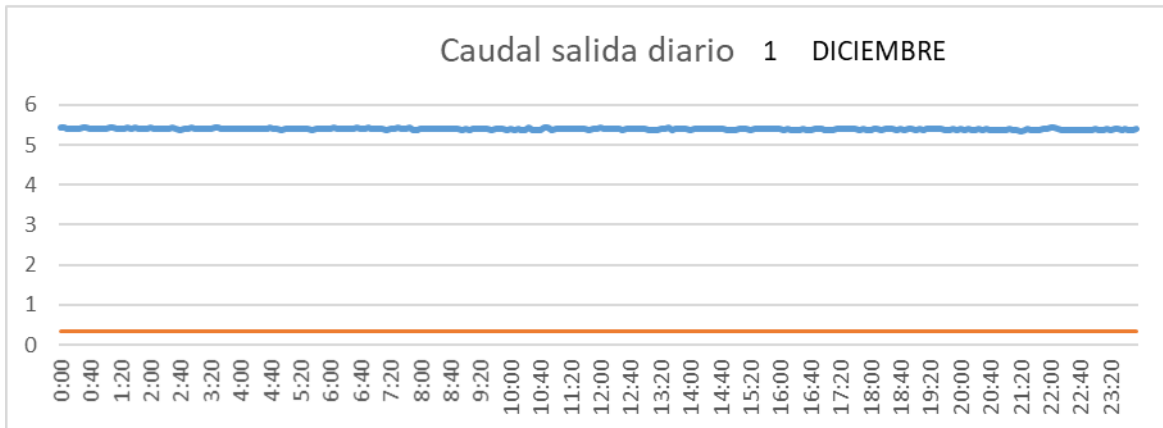


SAN LORENZO PARRILLA

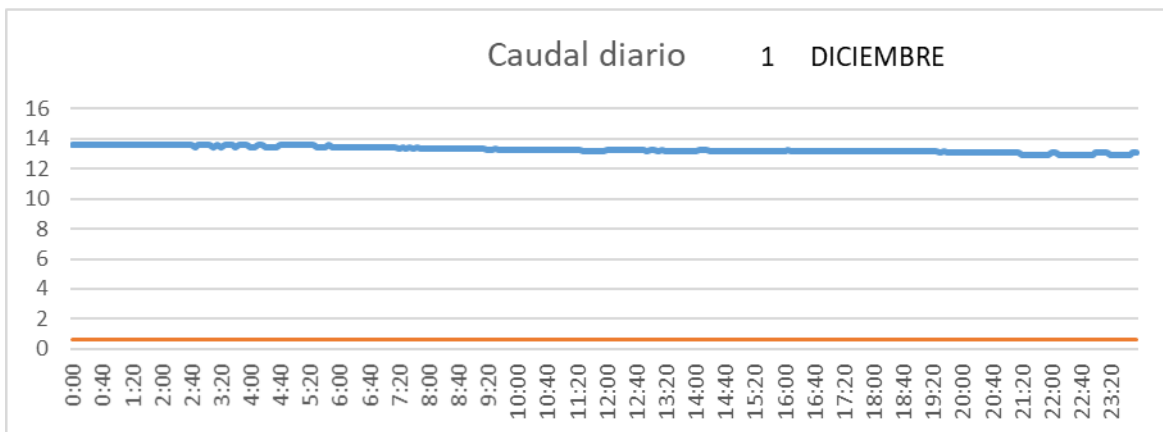


2.3.12 Diciembre

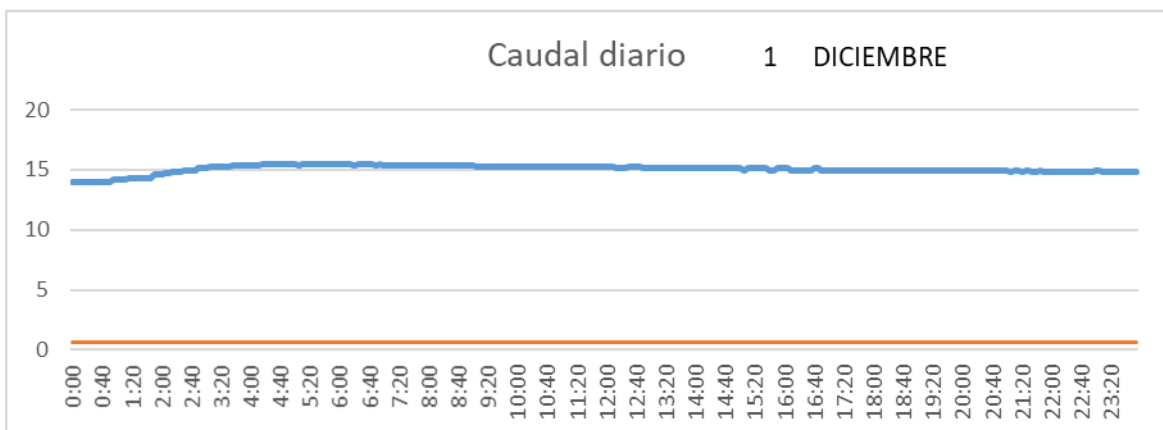
SALIDA TOBA



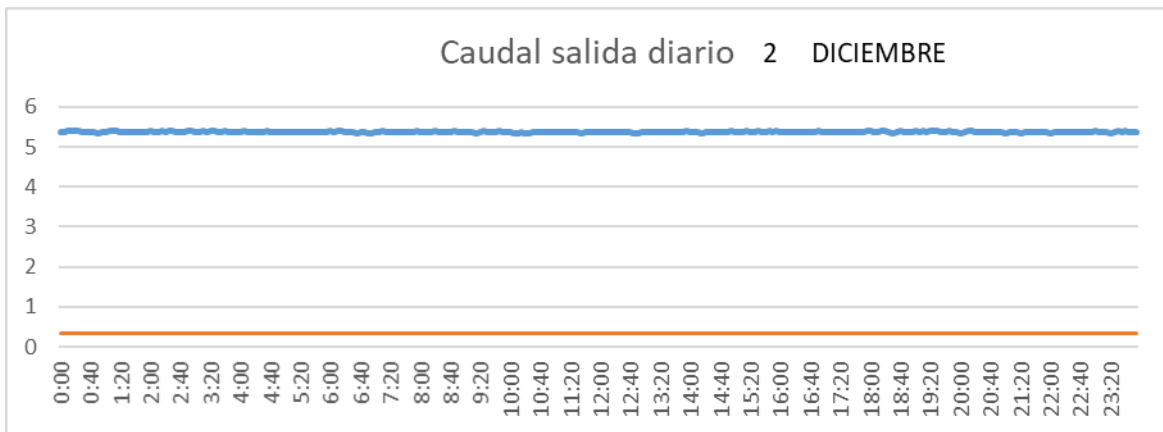
CUENCA



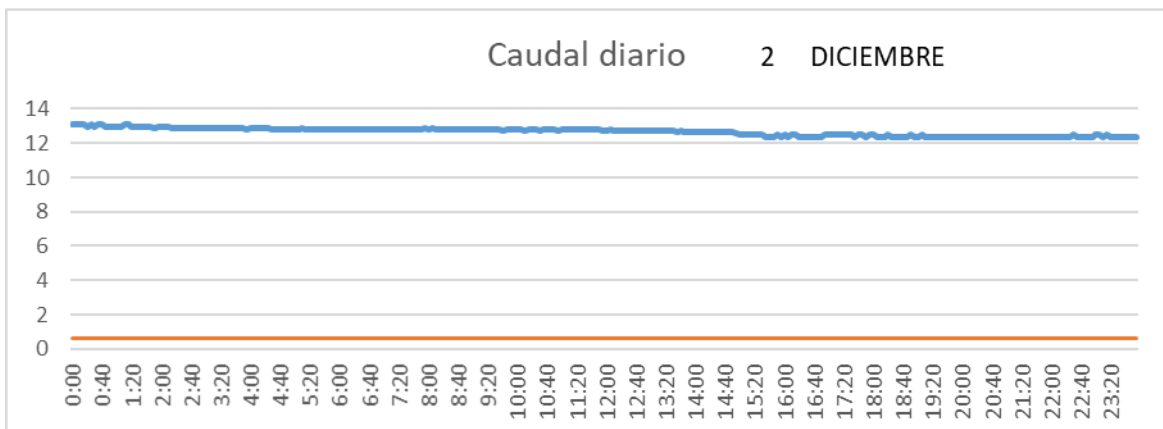
SAN LORENZO PARRILLA



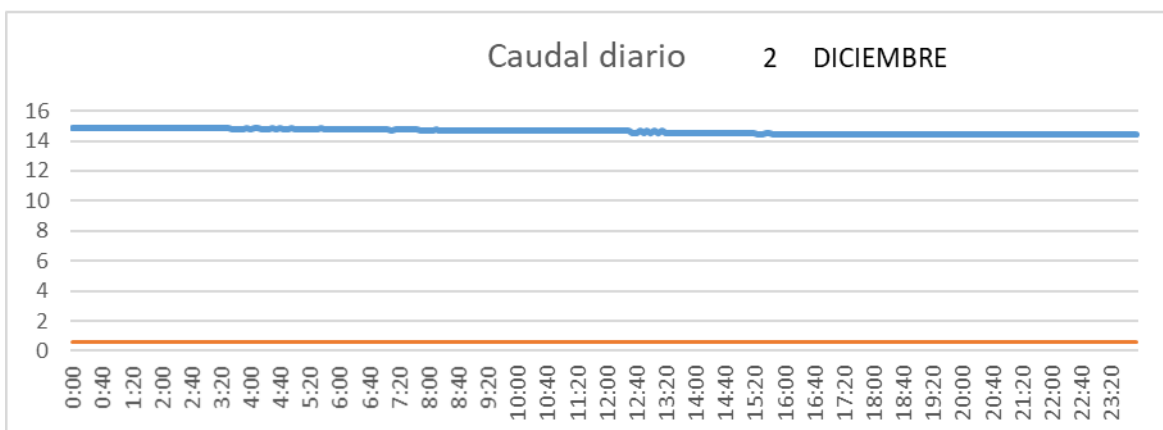
SALIDA TOBA



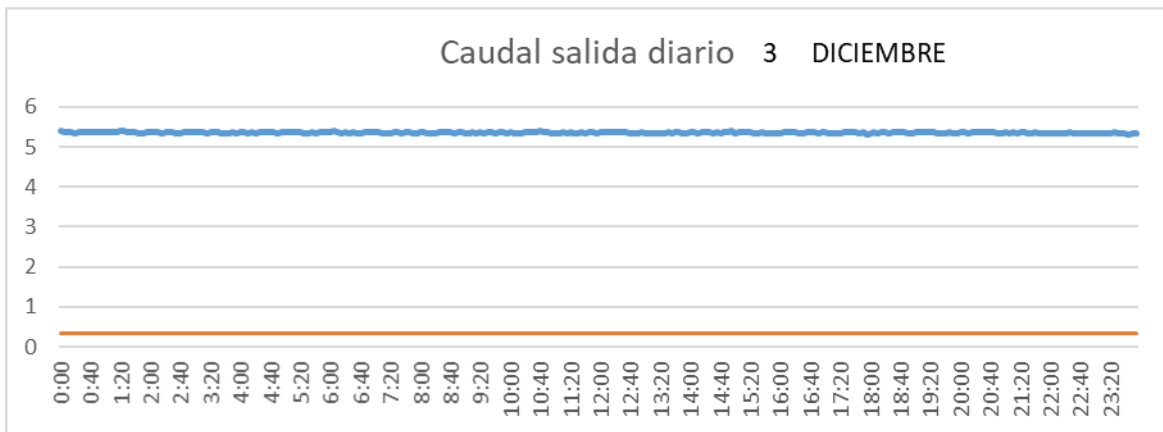
CUENCA



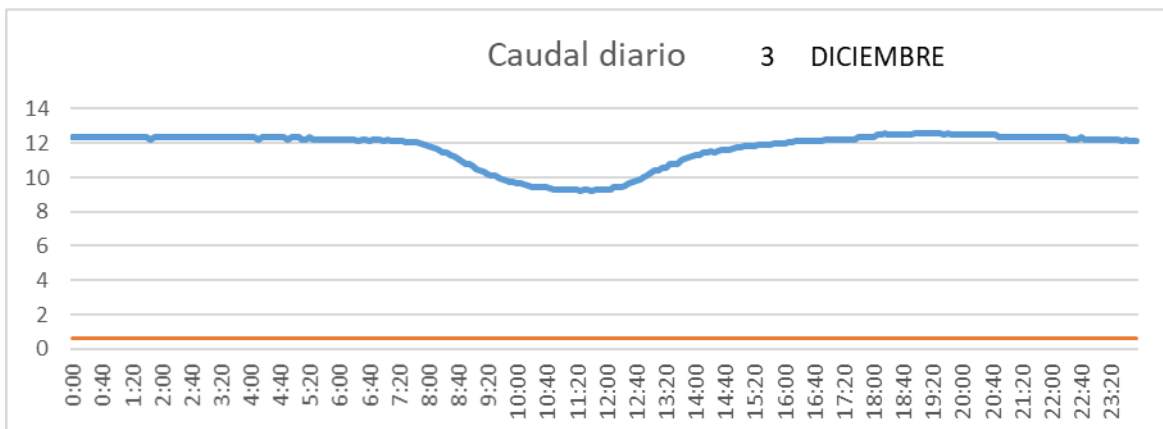
SAN LORENZO PARRILLA



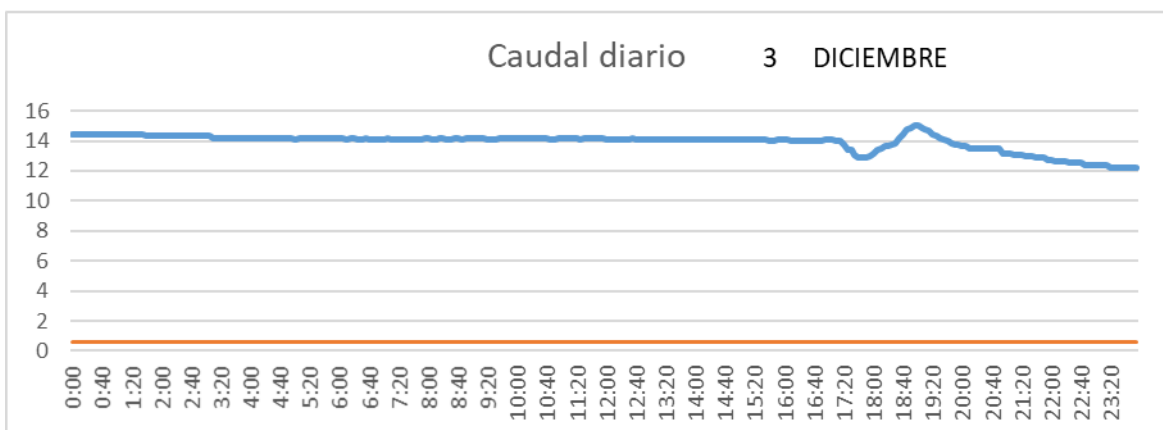
SALIDA TOBA



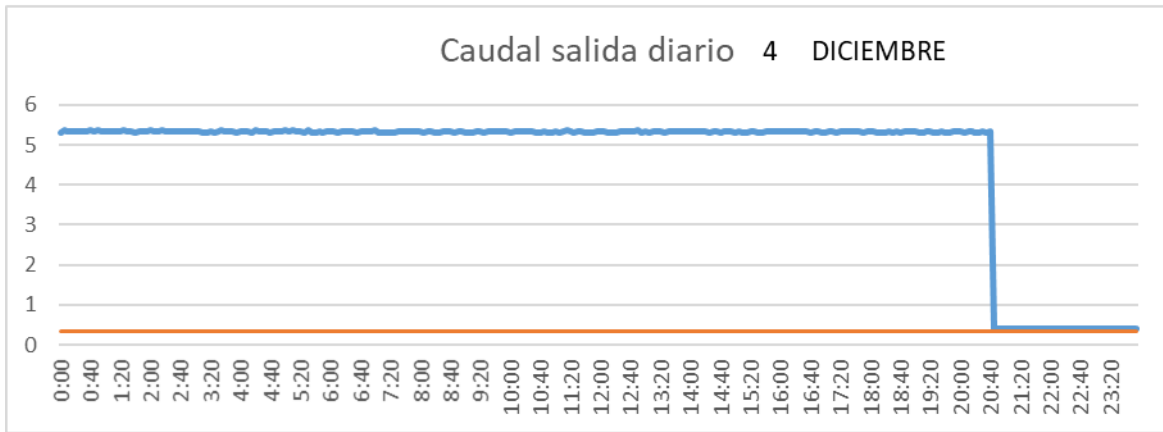
CUENCA



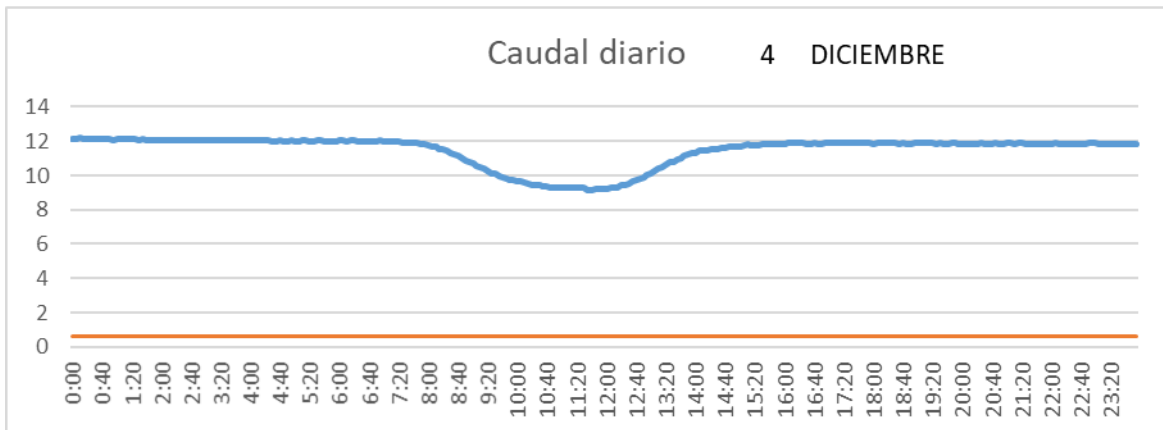
SAN LORENZO PARRILLA



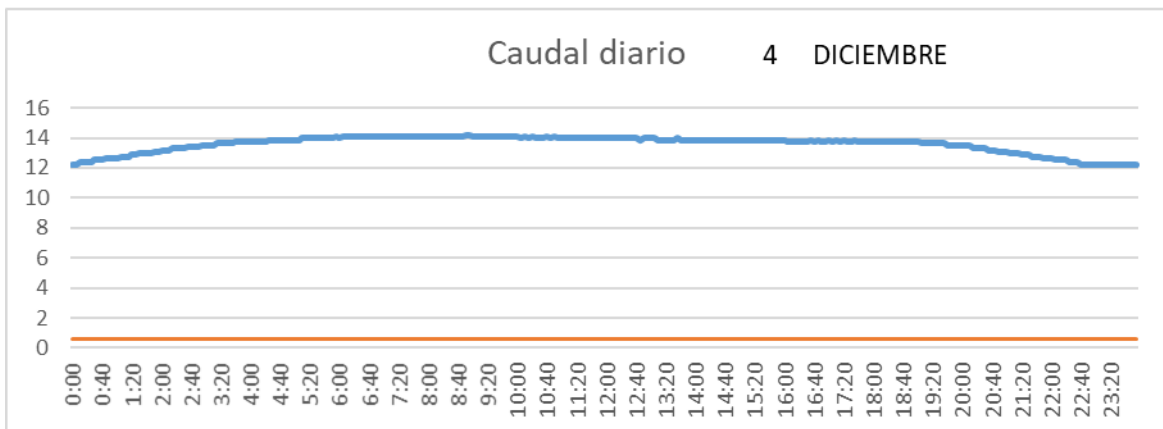
SALIDA TOBA



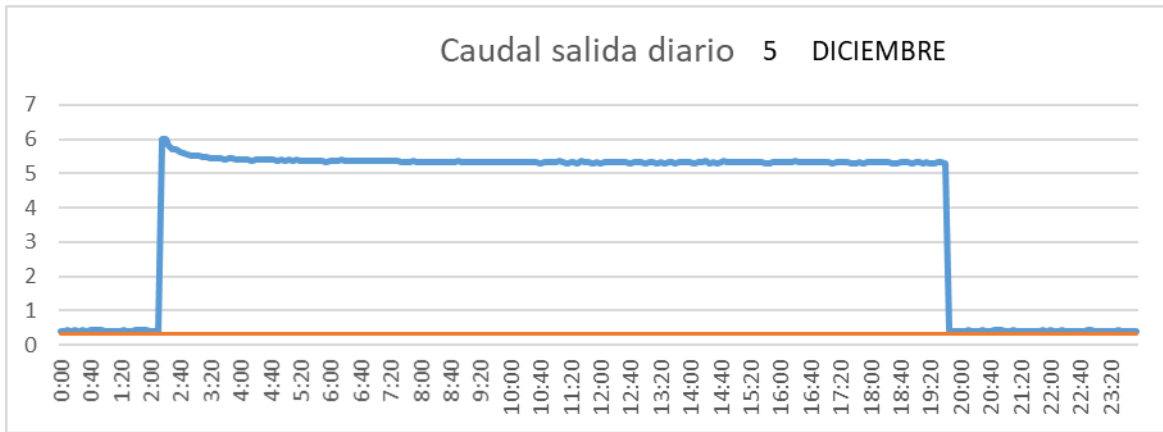
CUENCA



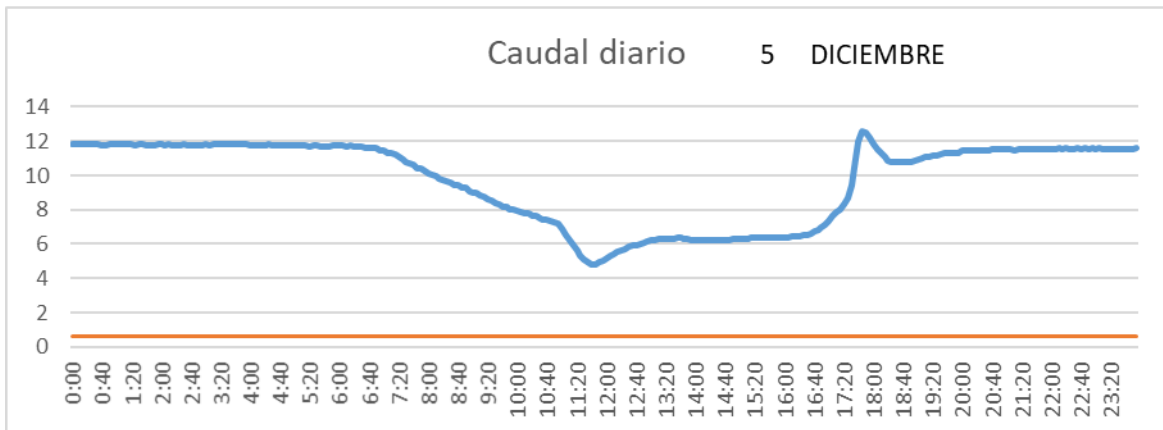
SAN LORENZO PARRILLA



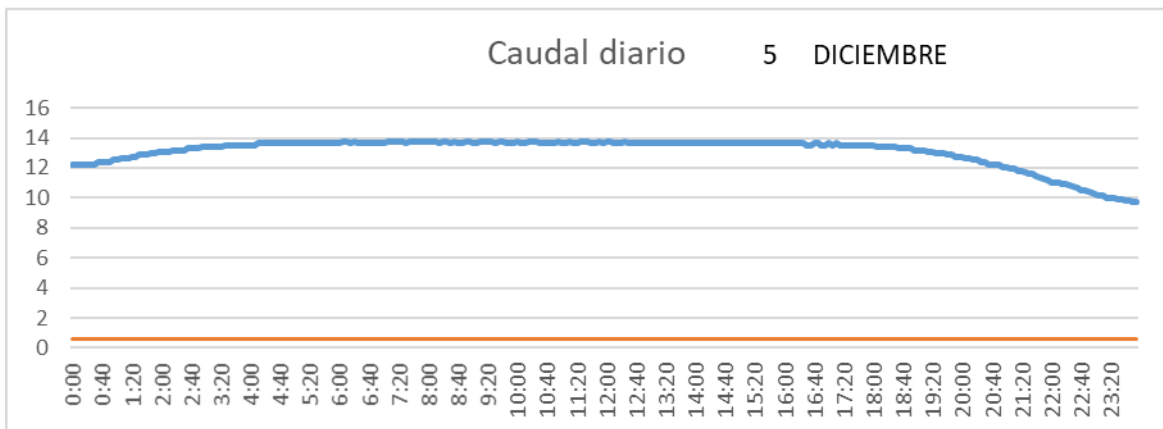
SALIDA TOBA



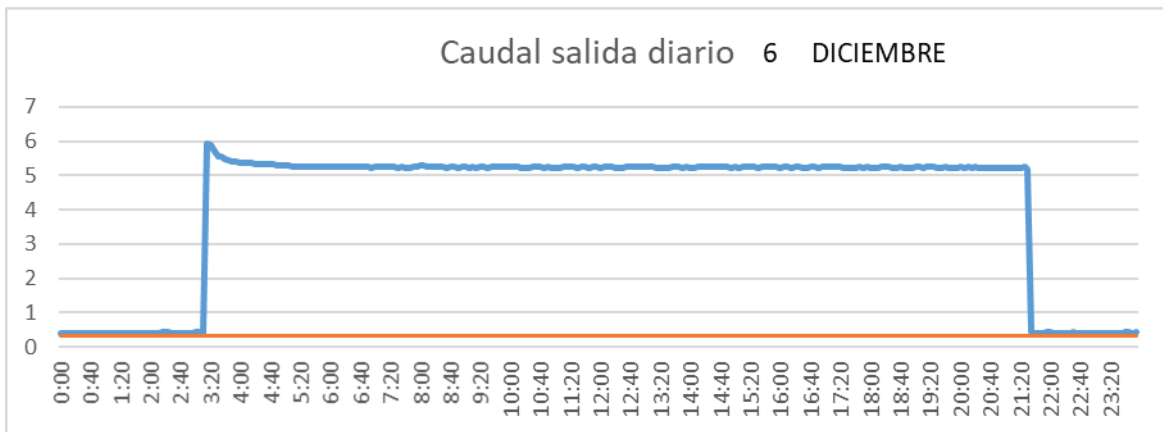
CUENCA



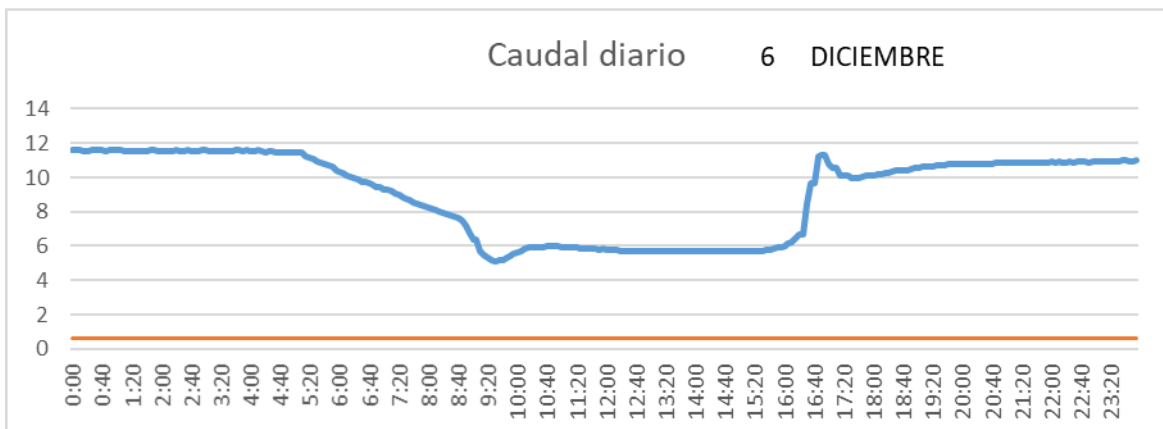
SAN LORENZO PARRILLA



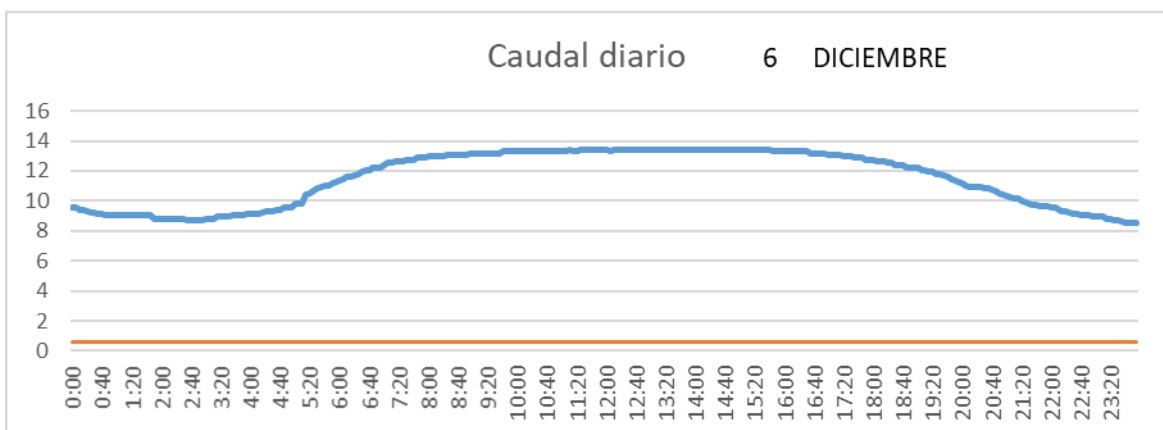
SALIDA TOBA



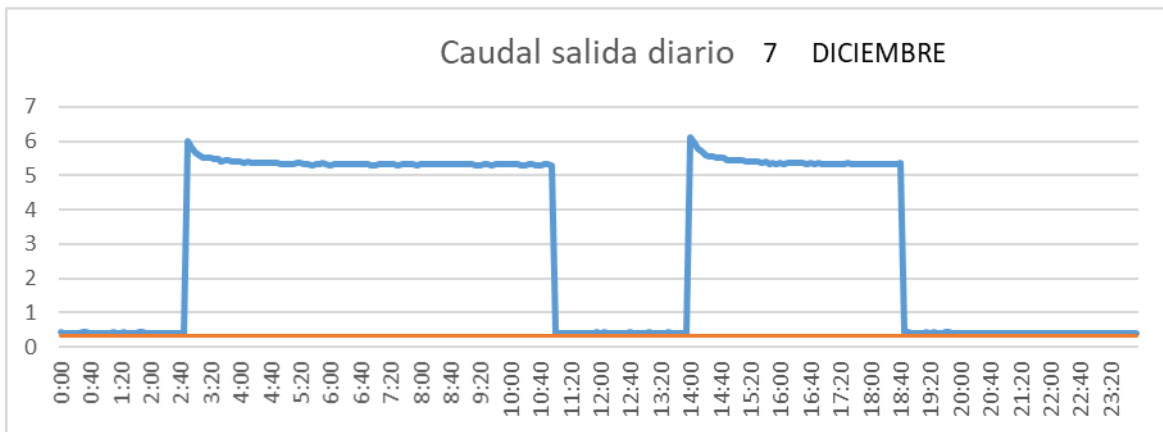
CUENCA



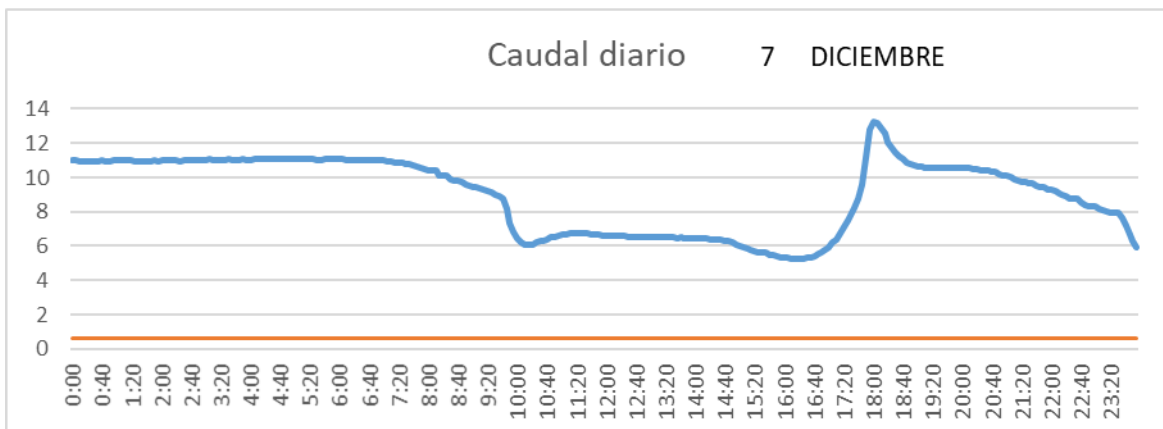
SAN LORENZO PARRILLA



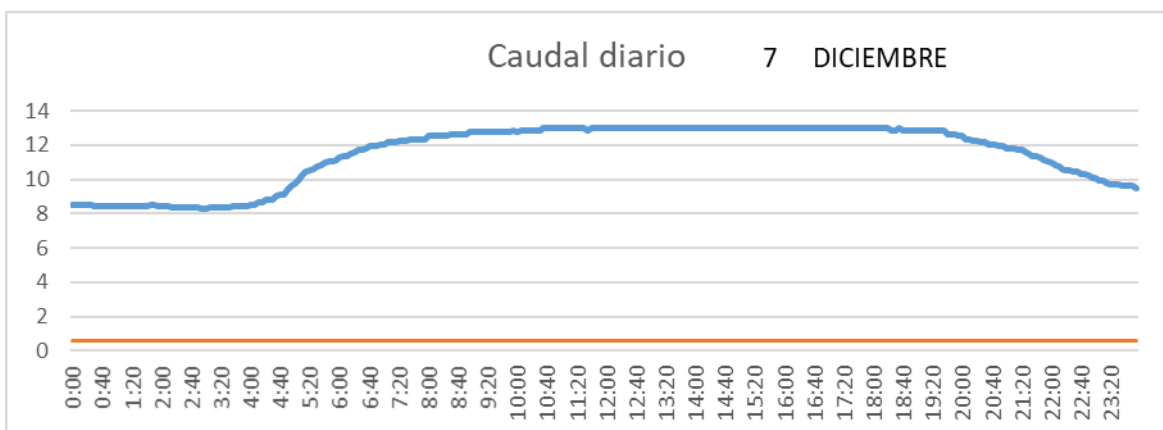
SALIDA TOBA



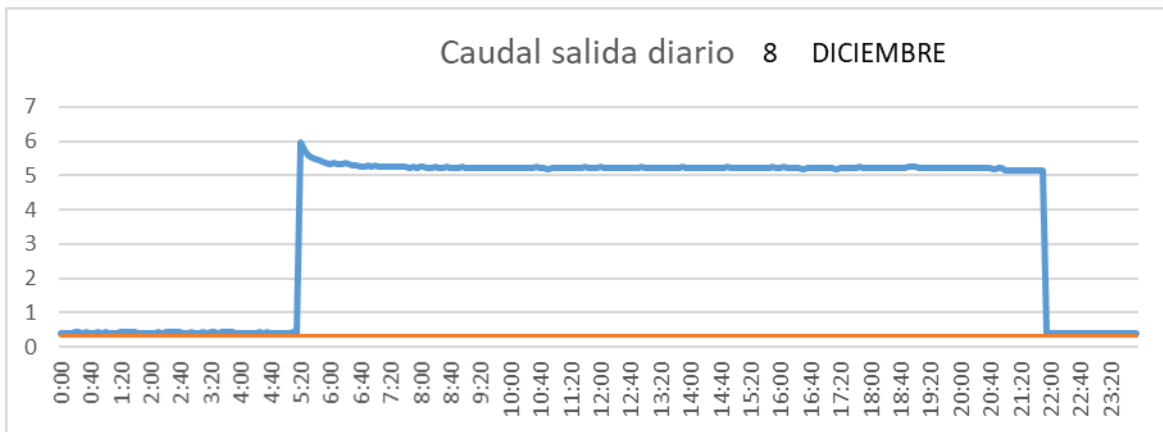
CUENCA



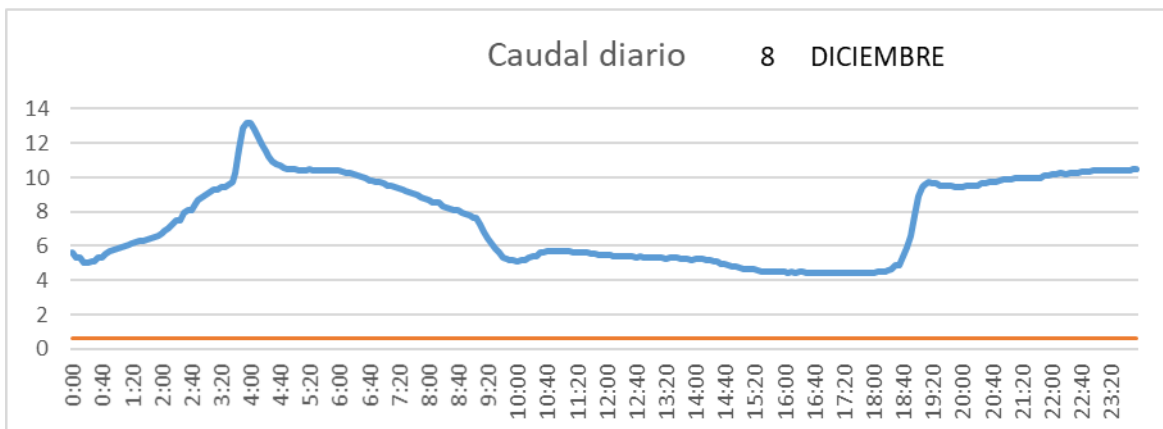
SAN LORENZO PARRILLA



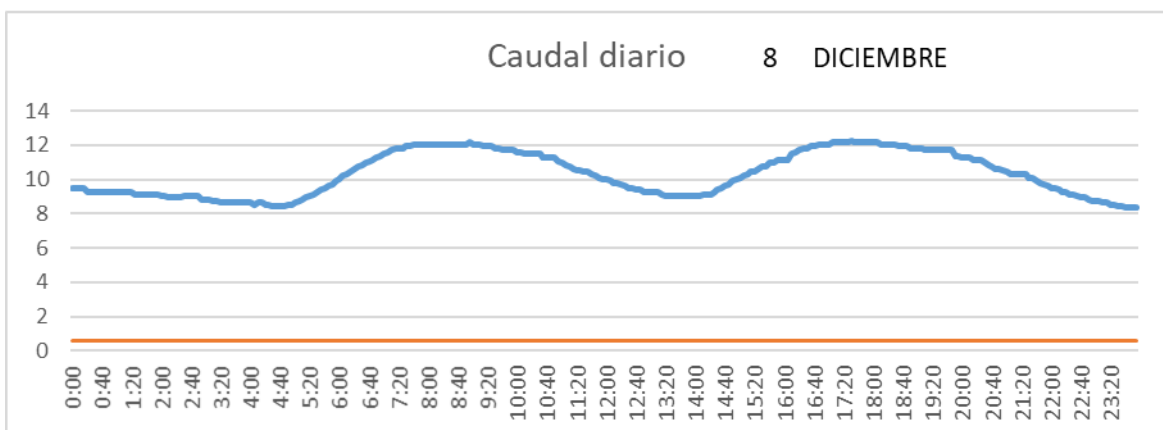
SALIDA TOBA



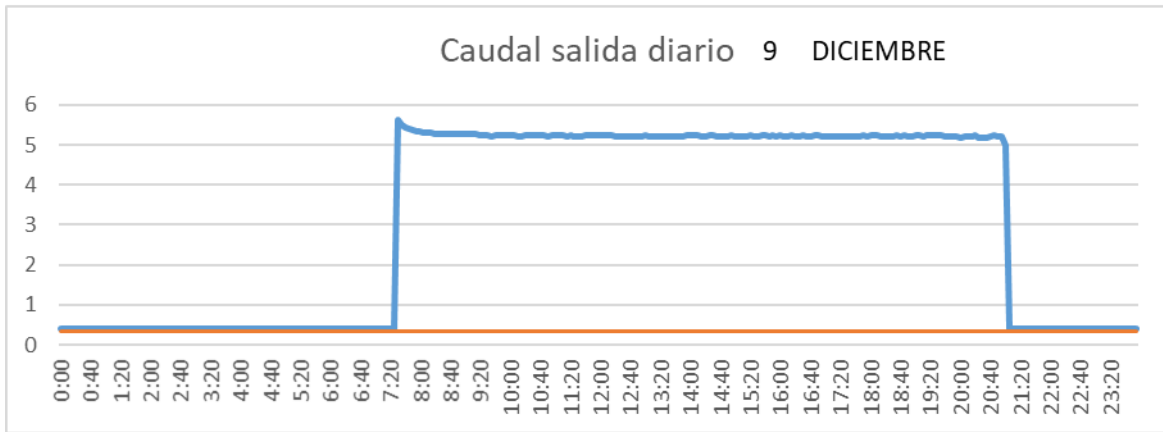
CUENCA



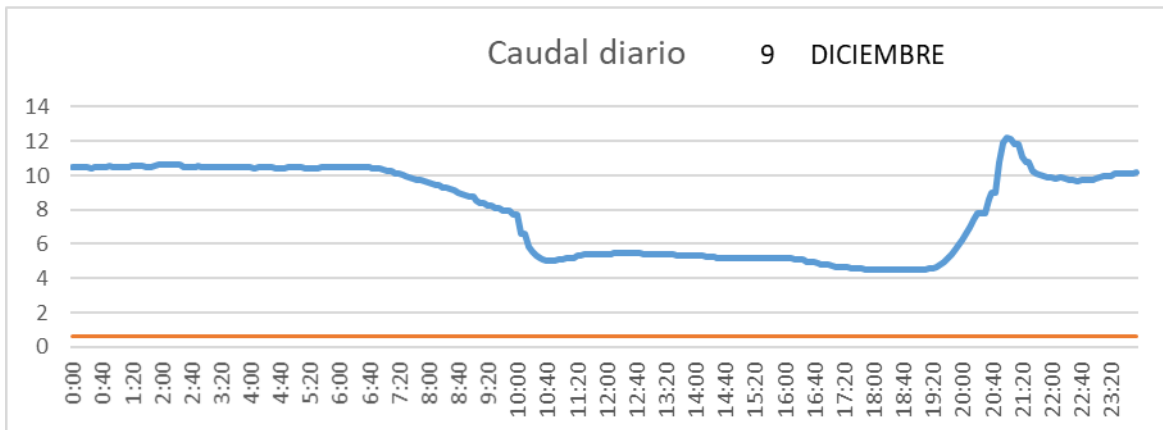
SAN LORENZO PARRILLA



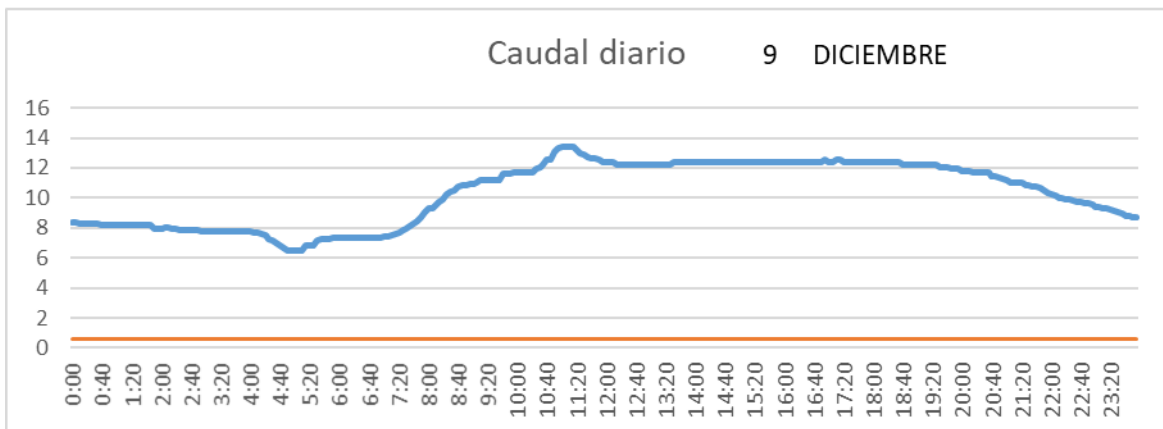
SALIDA TOBA



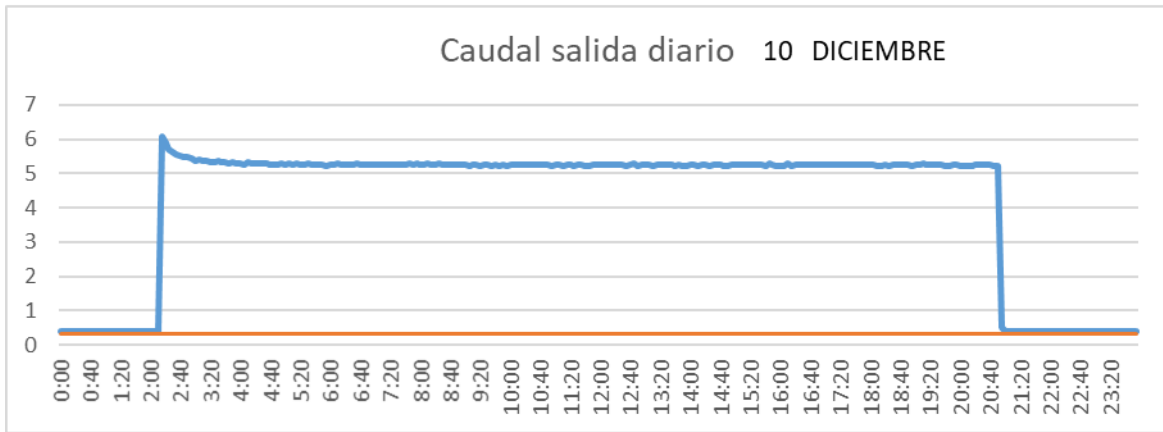
CUENCA



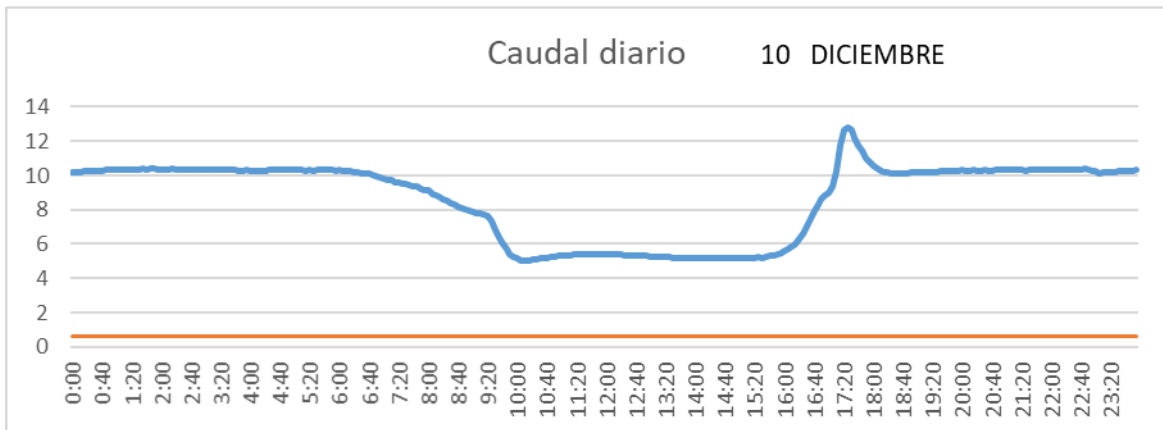
SAN LORENZO PARRILLA



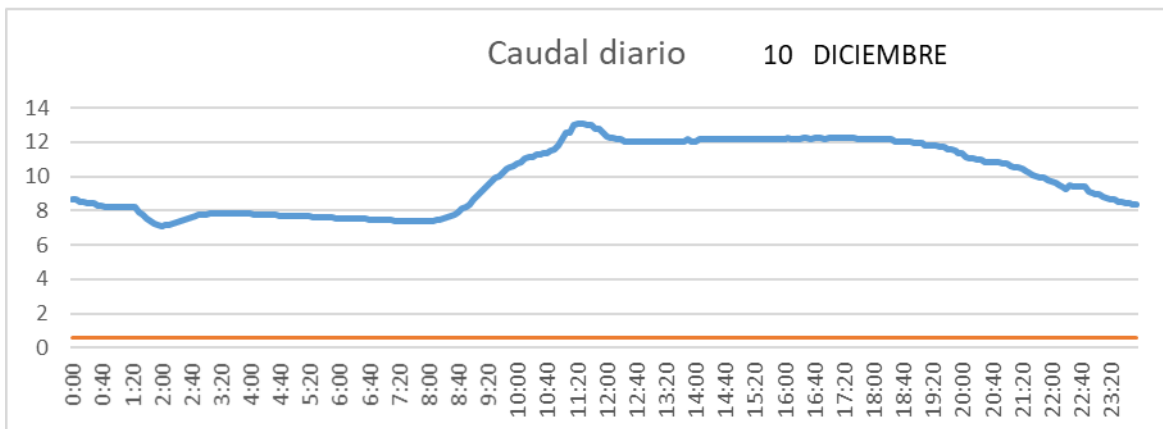
SALIDA TOBA



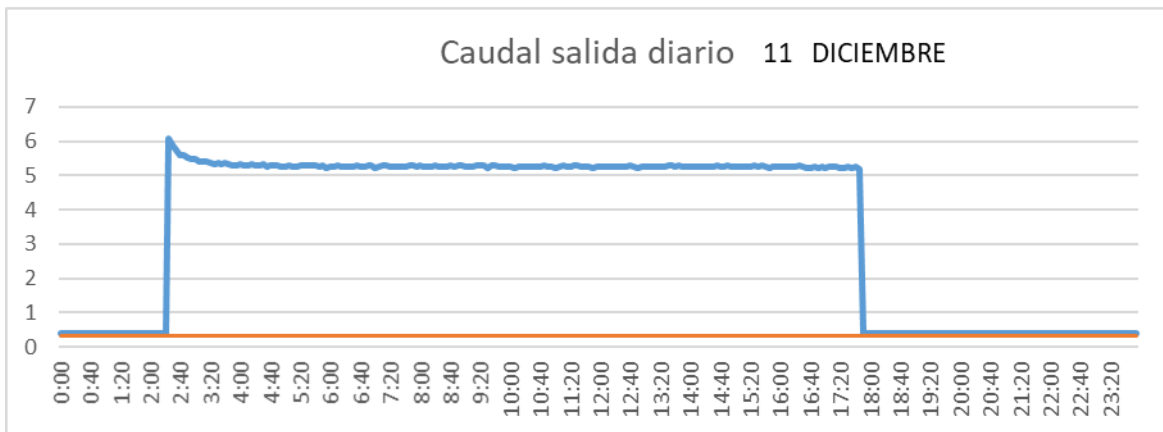
CUENCA



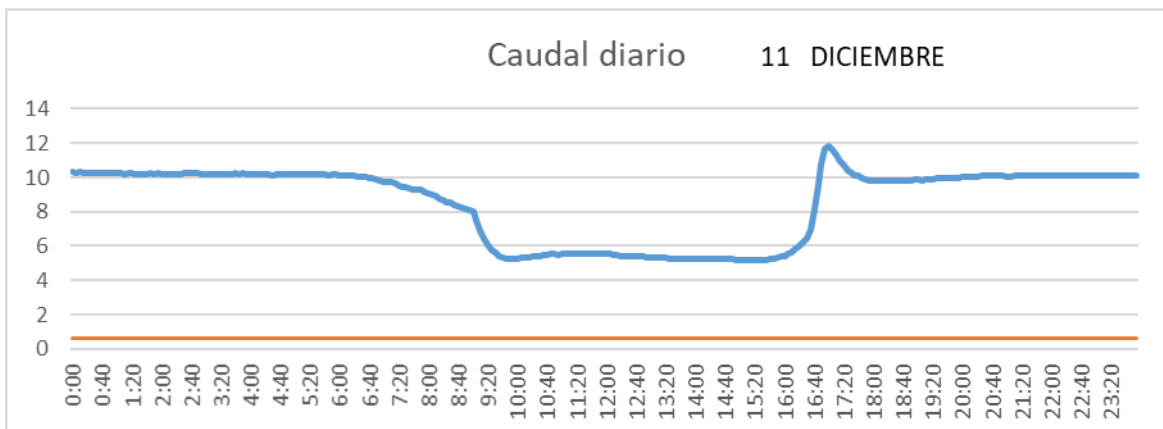
SAN LORENZO PARRILLA



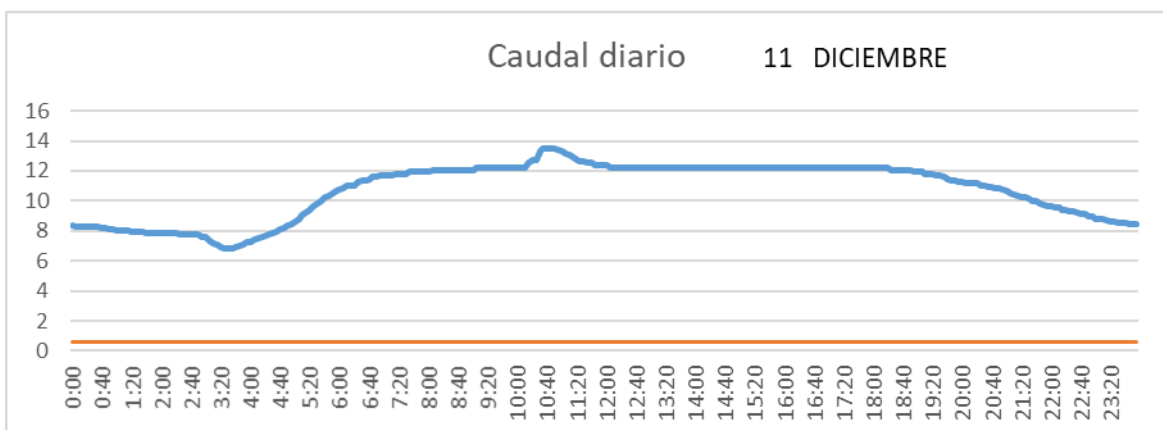
SALIDA TOBA



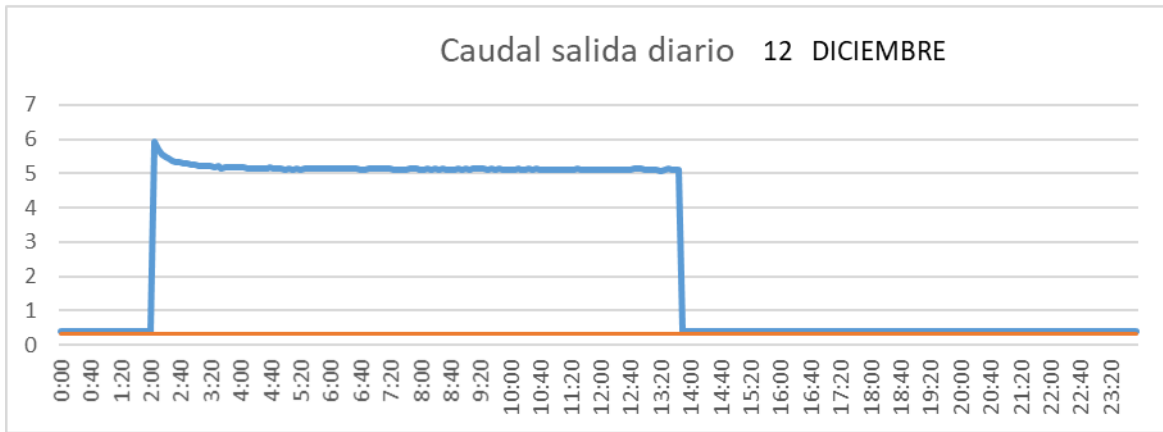
CUENCA



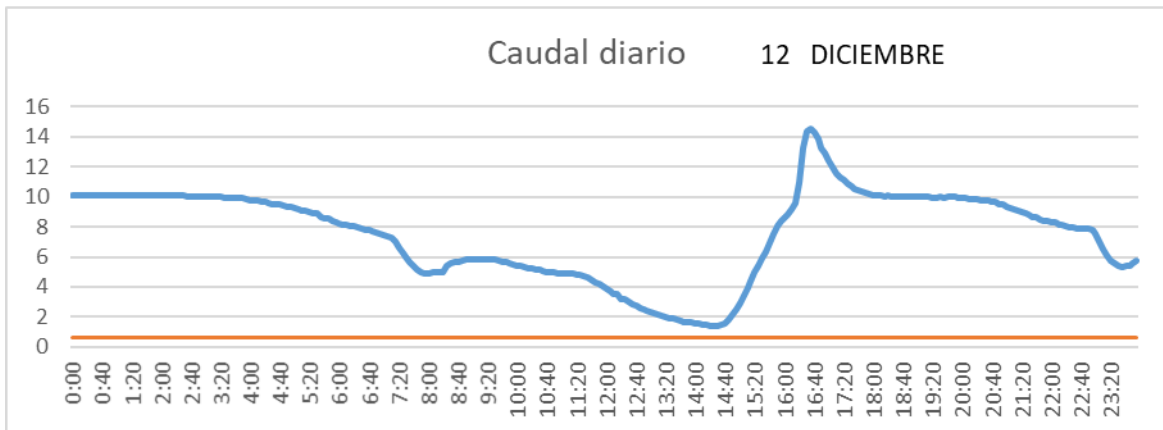
SAN LORENZO PARRILLA



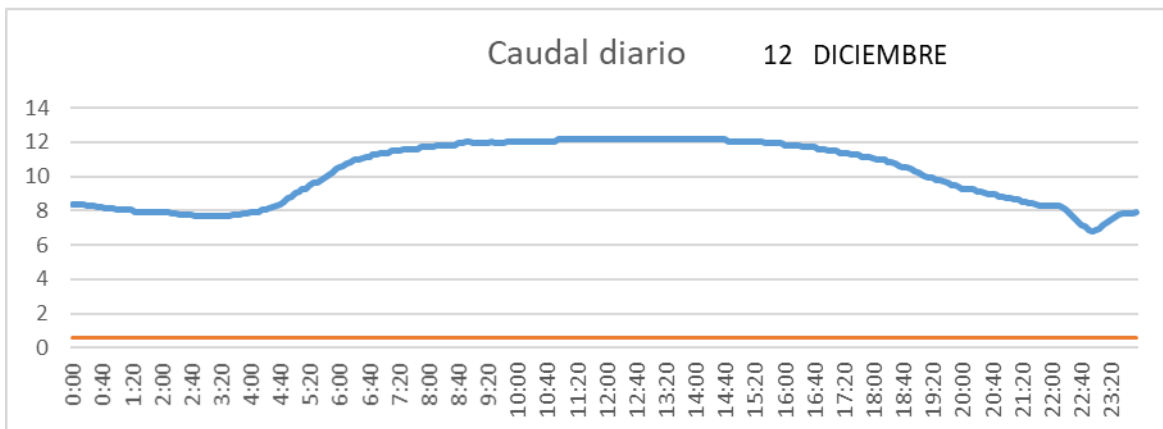
SALIDA TOBA



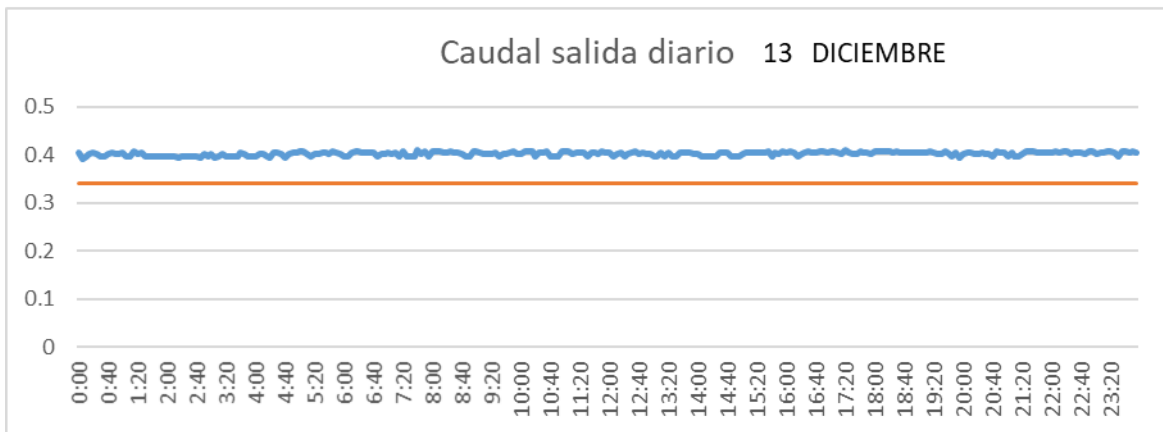
CUENCA



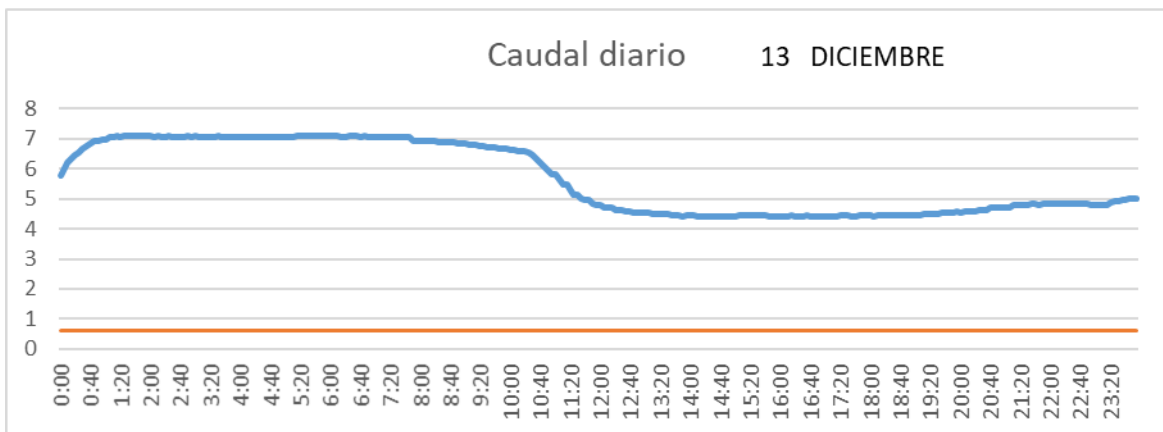
SAN LORENZO PARRILLA



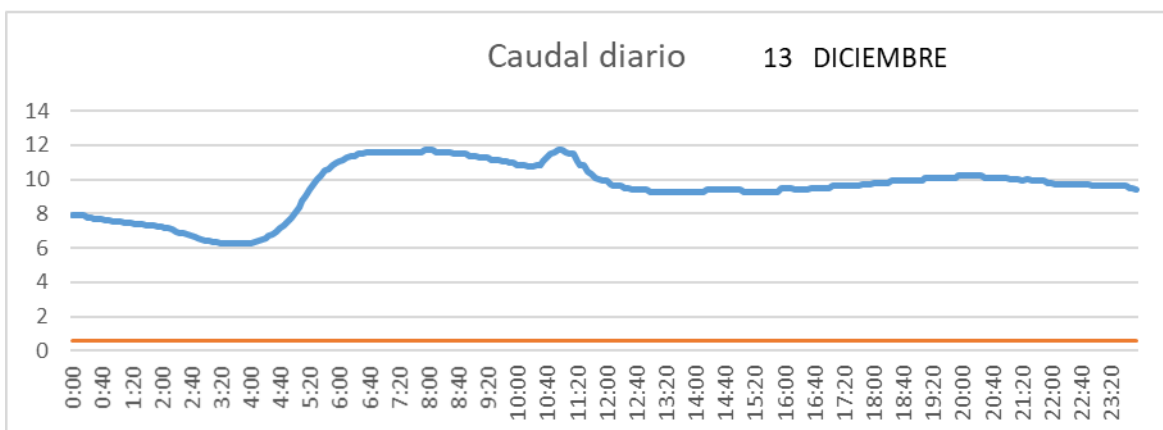
SALIDA TOBA



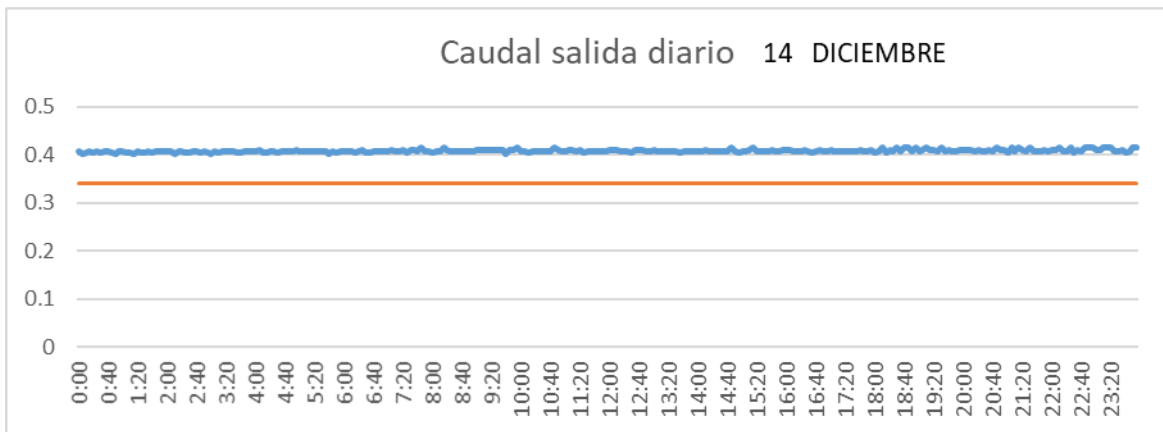
CUENCA



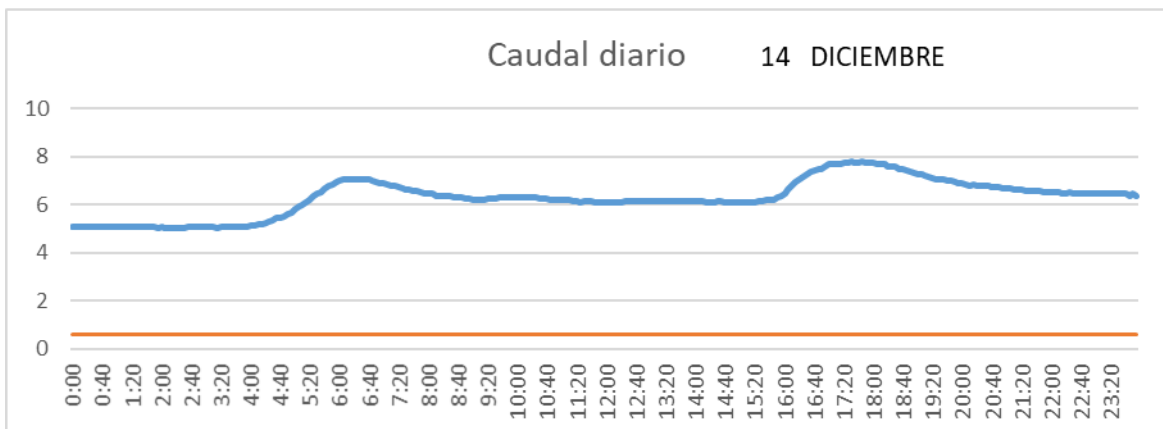
SAN LORENZO PARRILLA



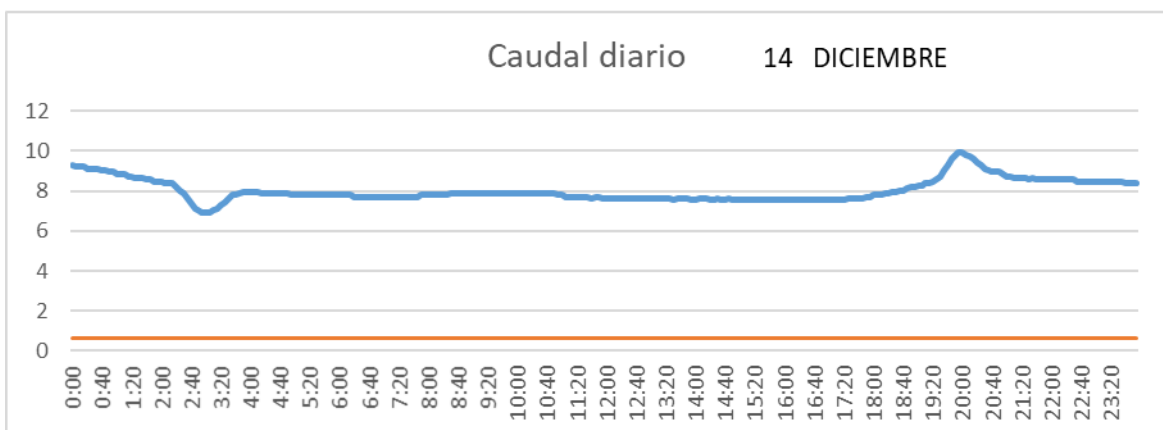
SALIDA TOBA



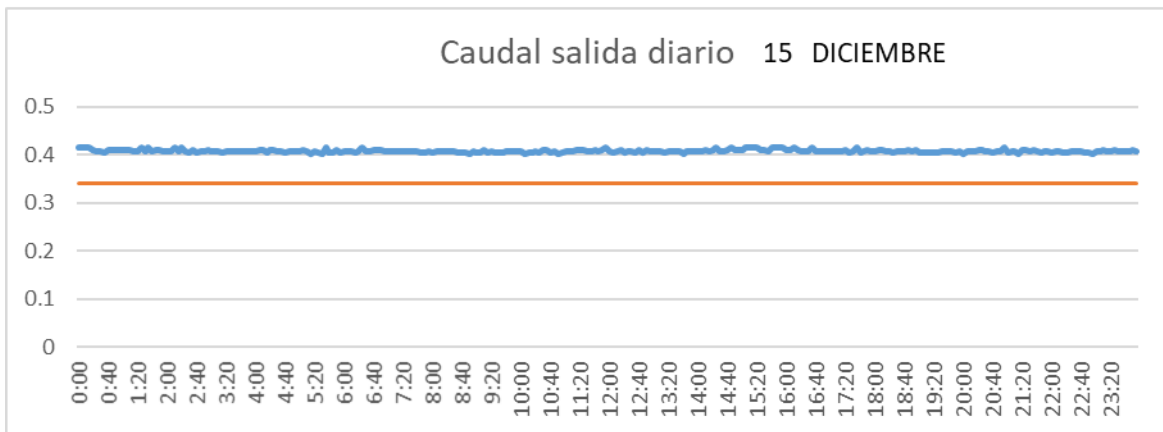
CUENCA



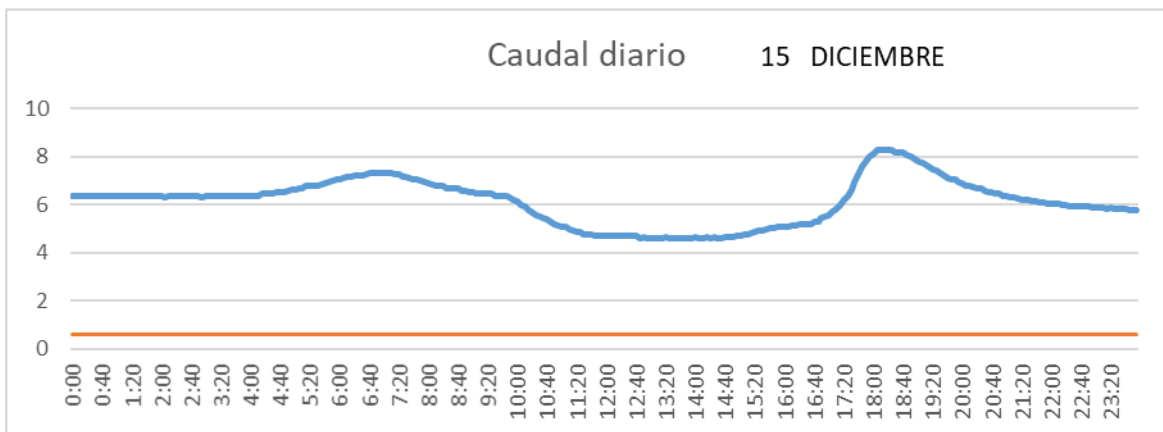
SAN LORENZO PARRILLA



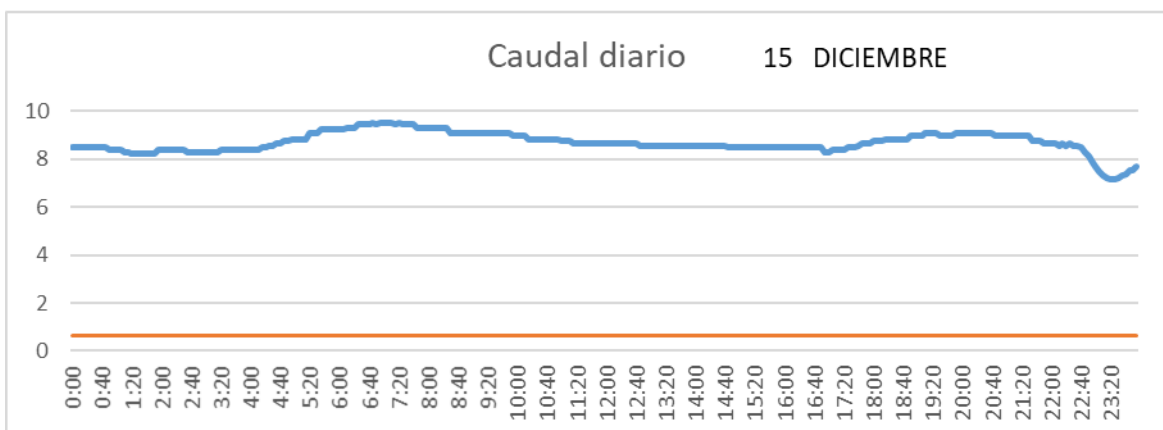
SALIDA TOBA



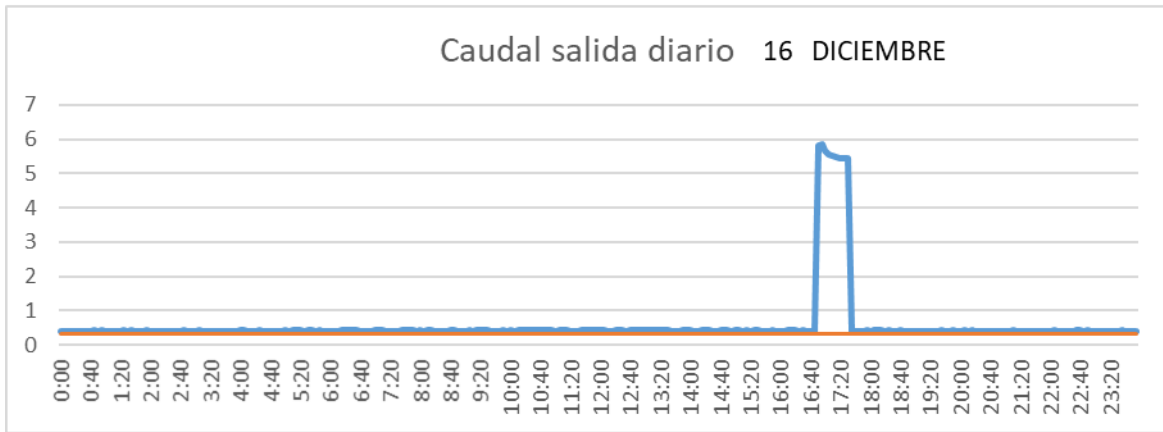
CUENCA



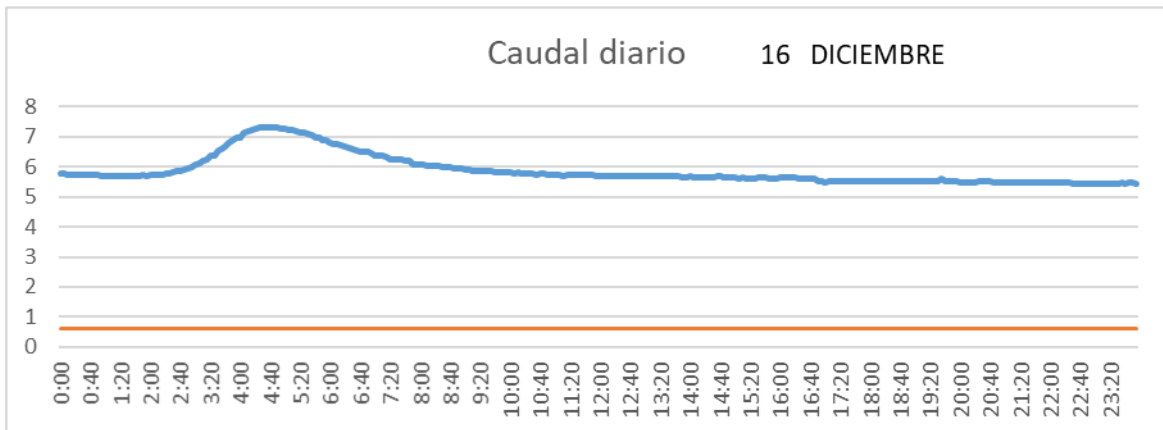
SAN LORENZO PARRILLA



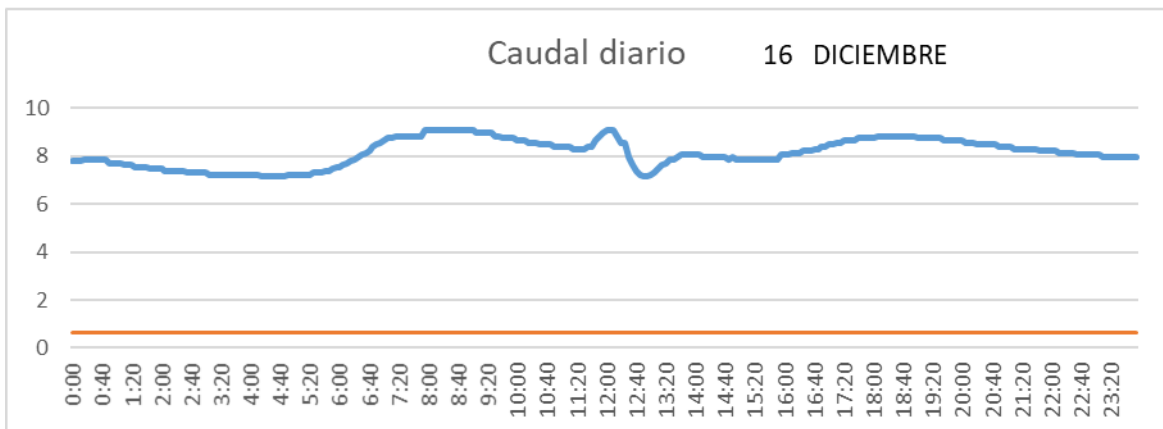
SALIDA TOBA



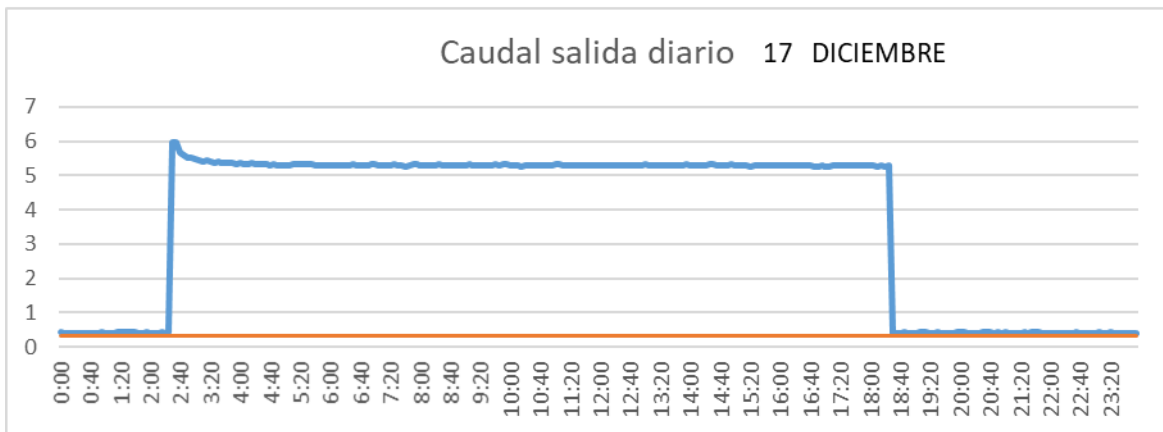
CUENCA



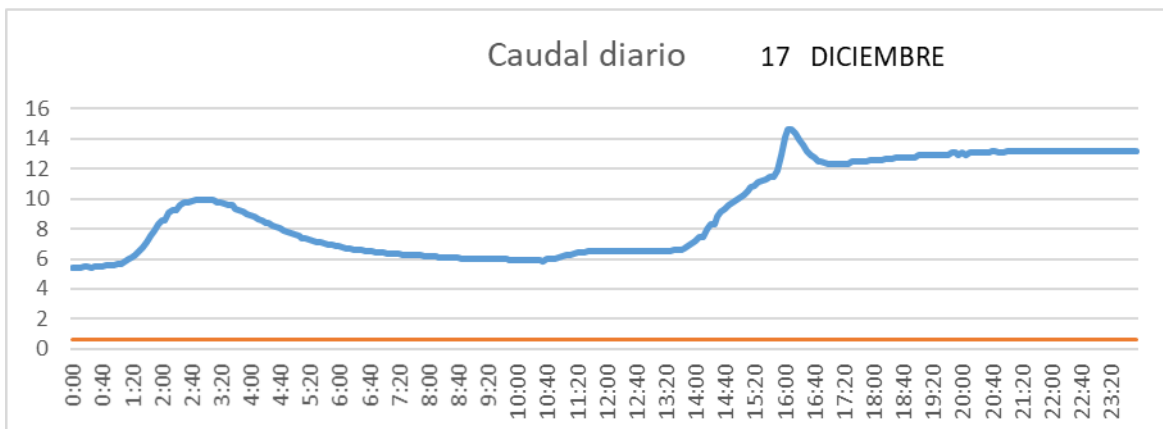
SAN LORENZO PARRILLA



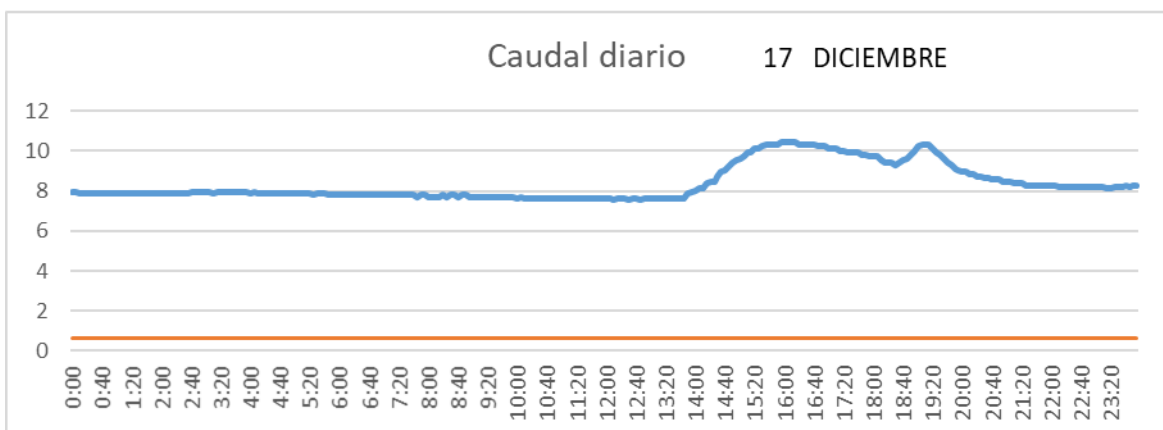
SALIDA TOBA



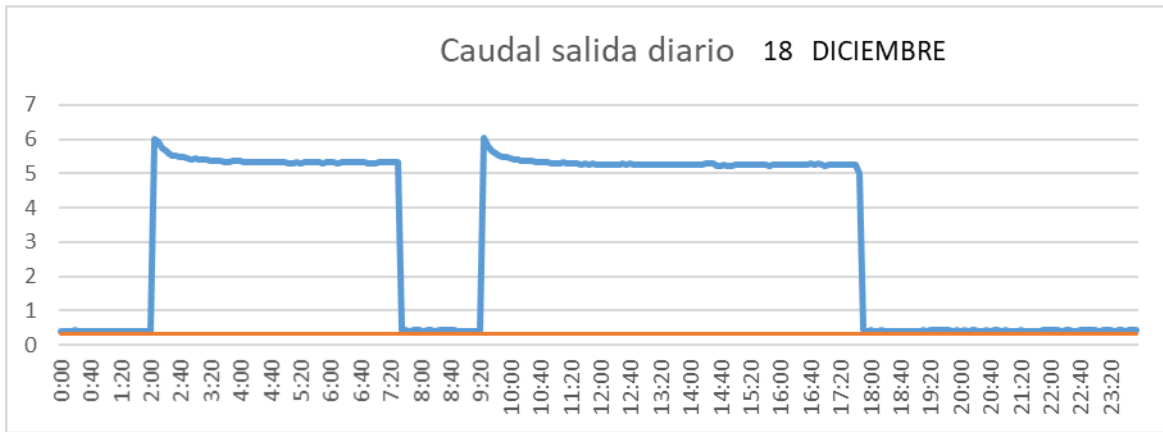
CUENCA



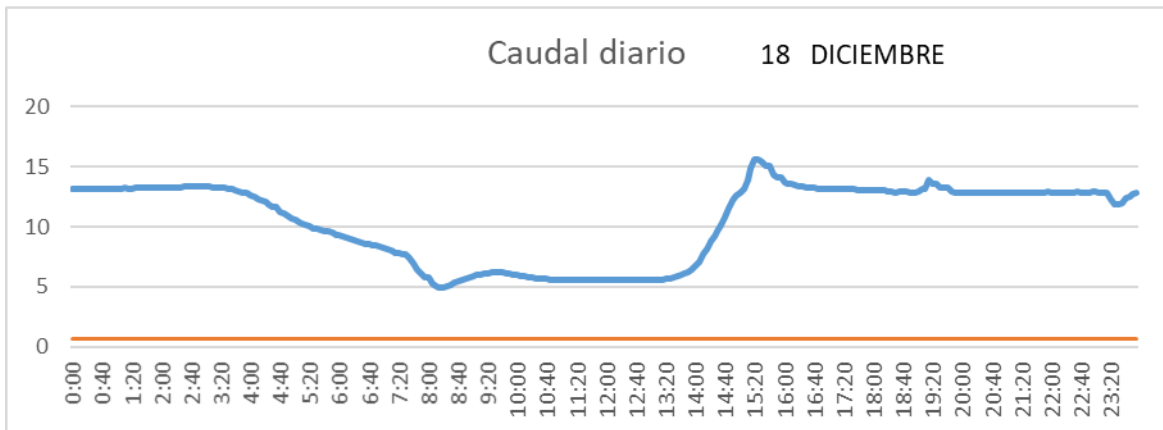
SAN LORENZO PARRILLA



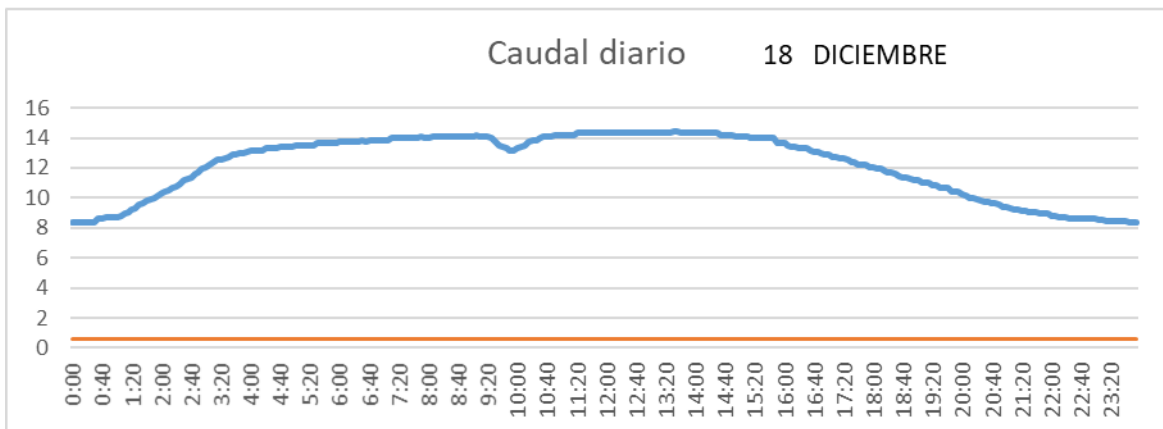
SALIDA TOBA



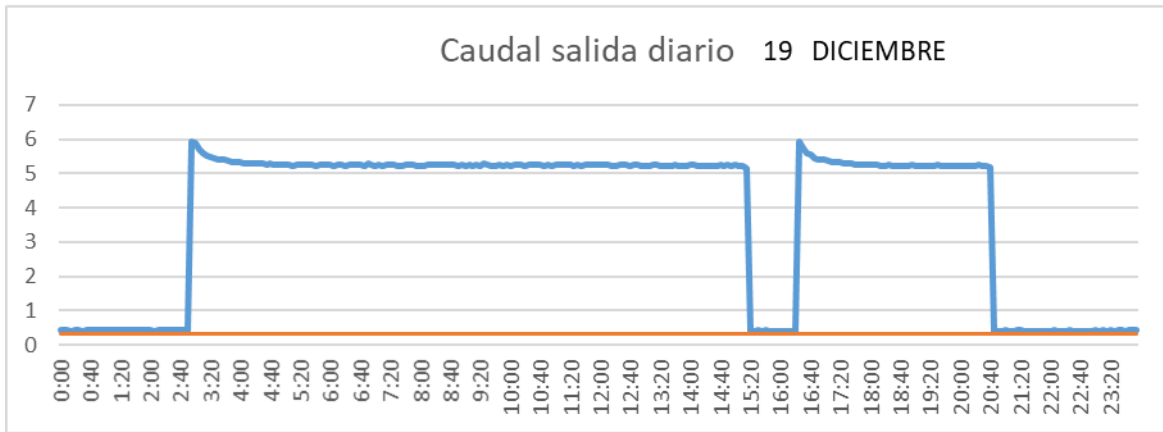
CUENCA



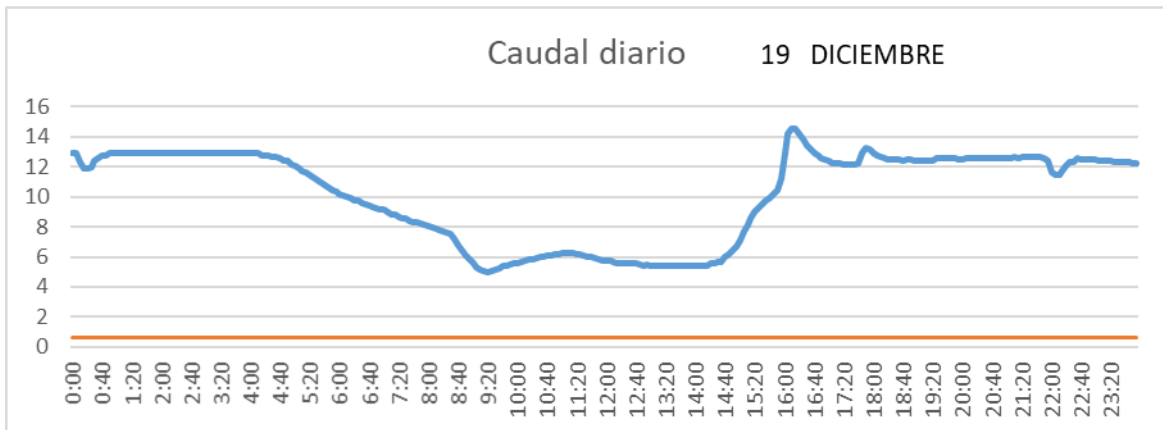
SAN LORENZO PARRILLA



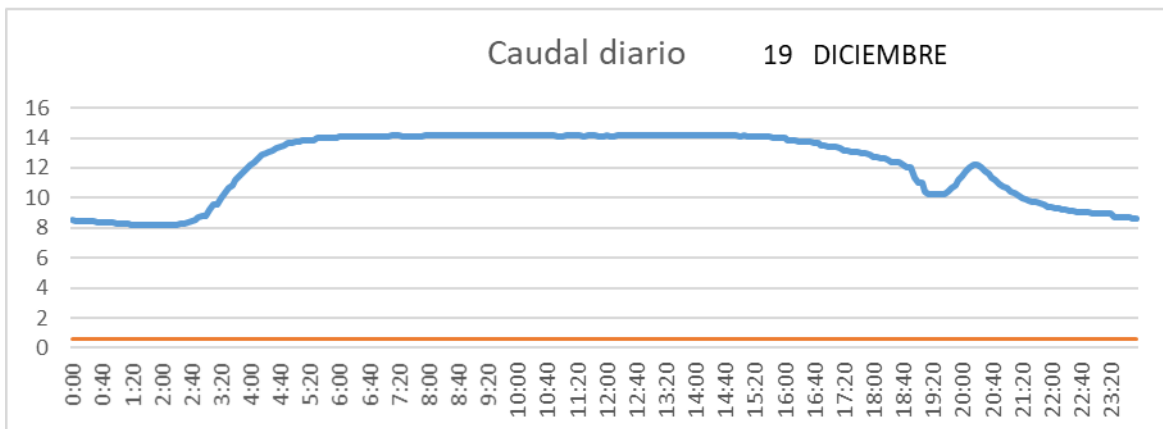
SALIDA TOBA



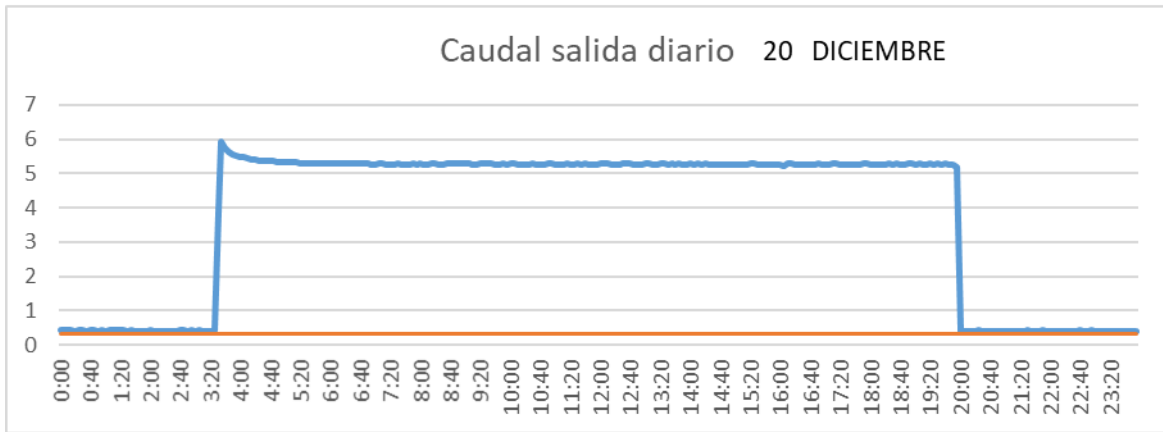
CUENCA



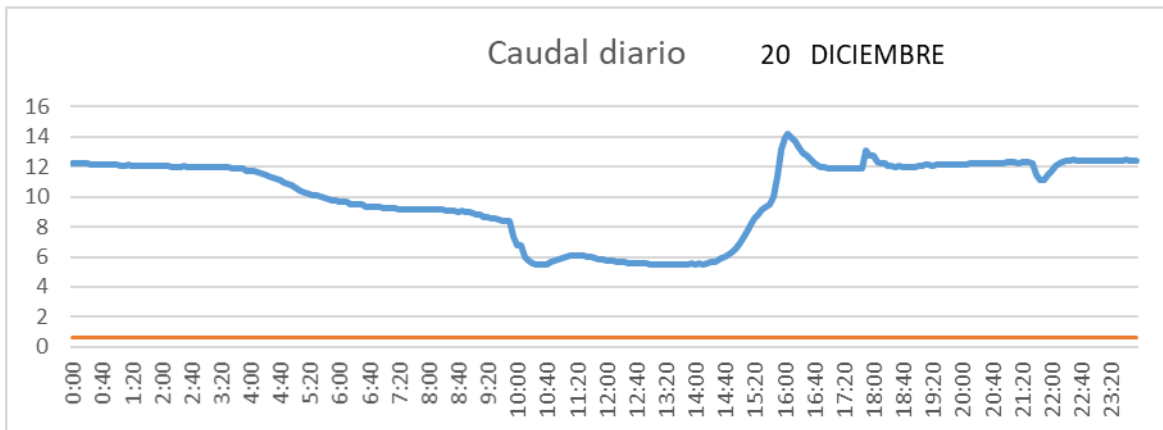
SAN LORENZO PARRILLA



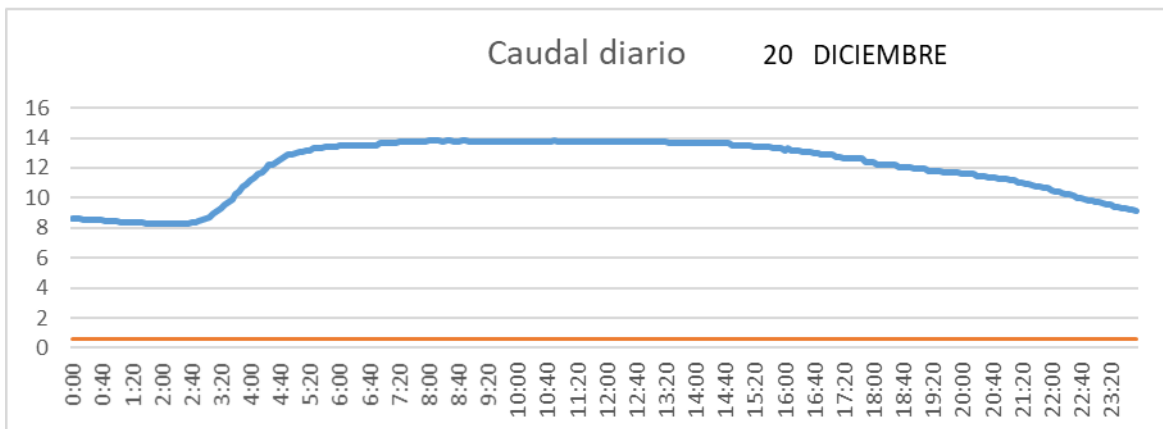
SALIDA TOBA



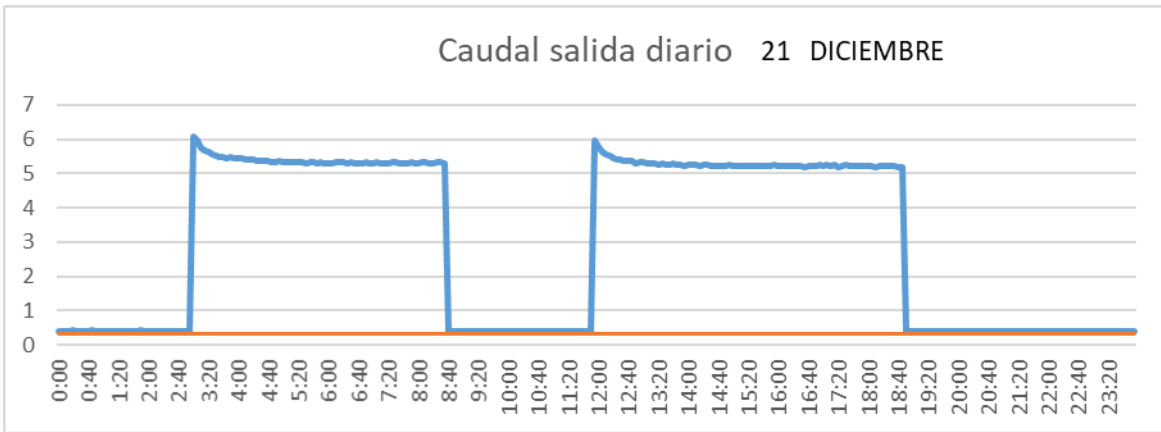
CUENCA



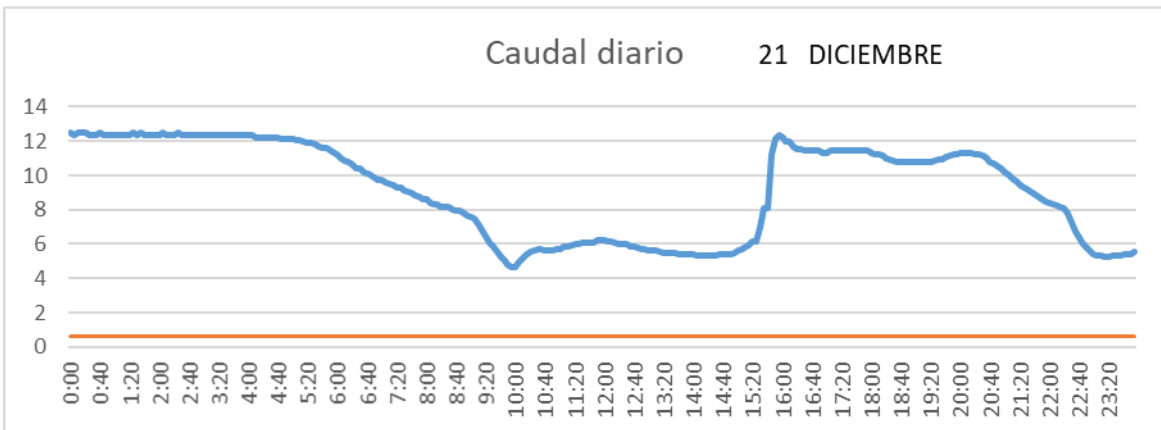
SAN LORENZO PARRILLA



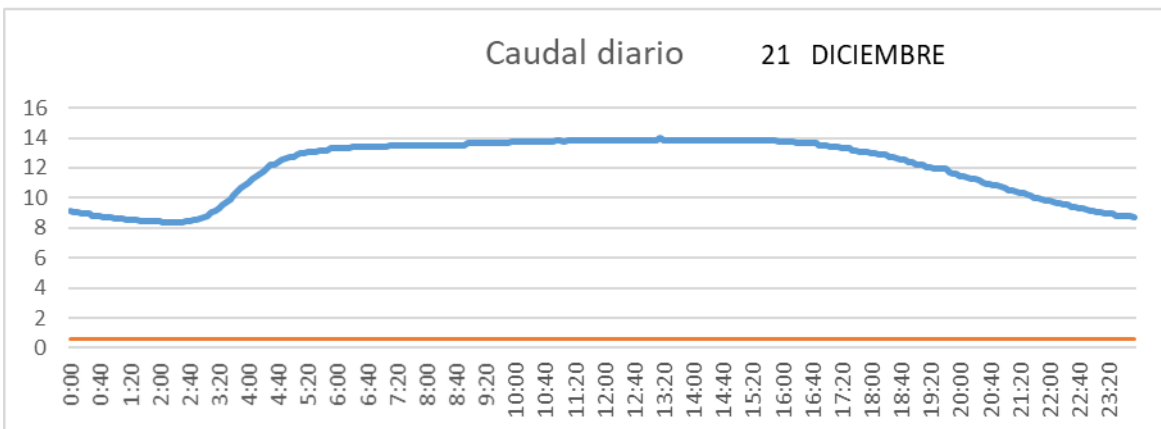
SALIDA TOBA



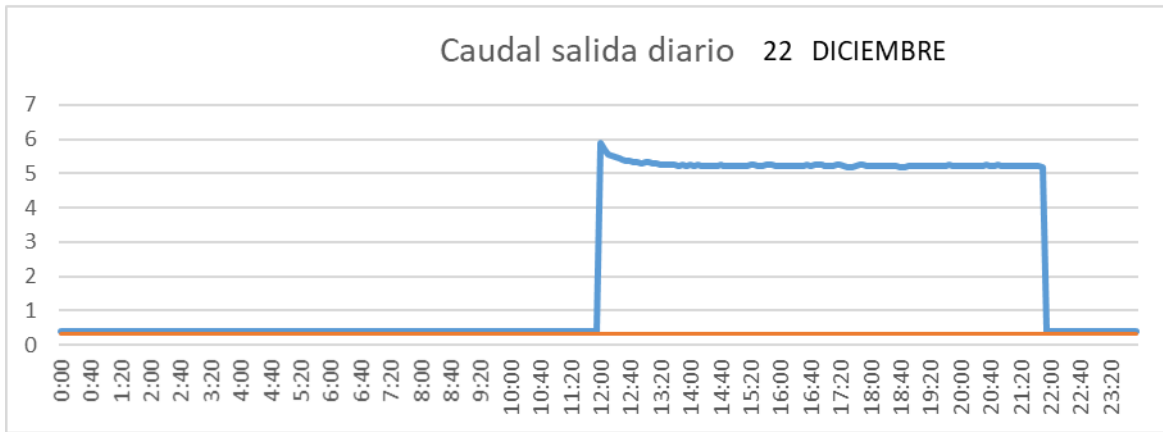
CUENCA



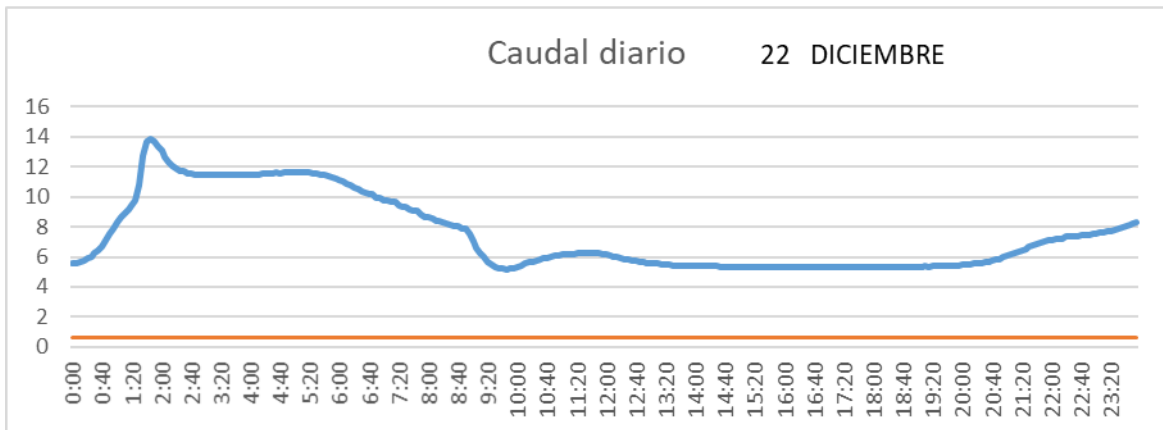
SAN LORENZO PARRILLA



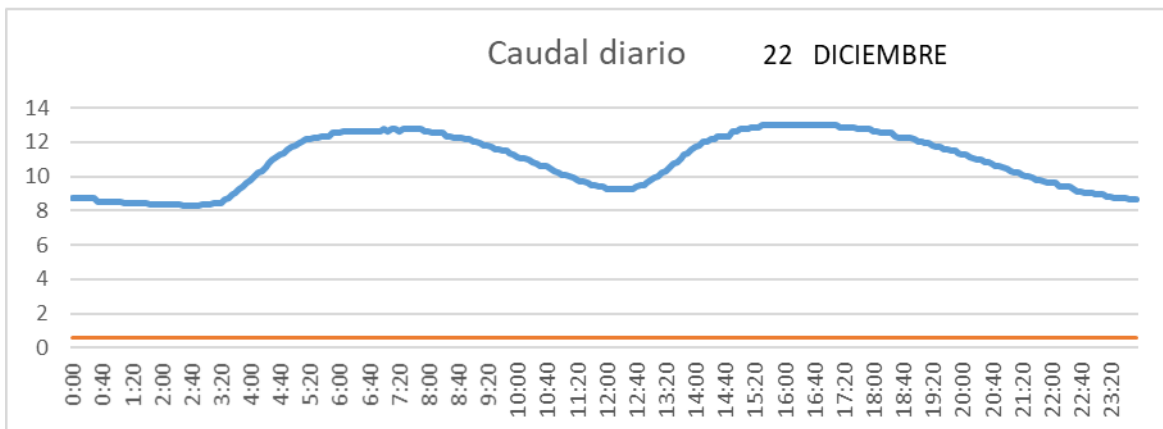
SALIDA TOBA



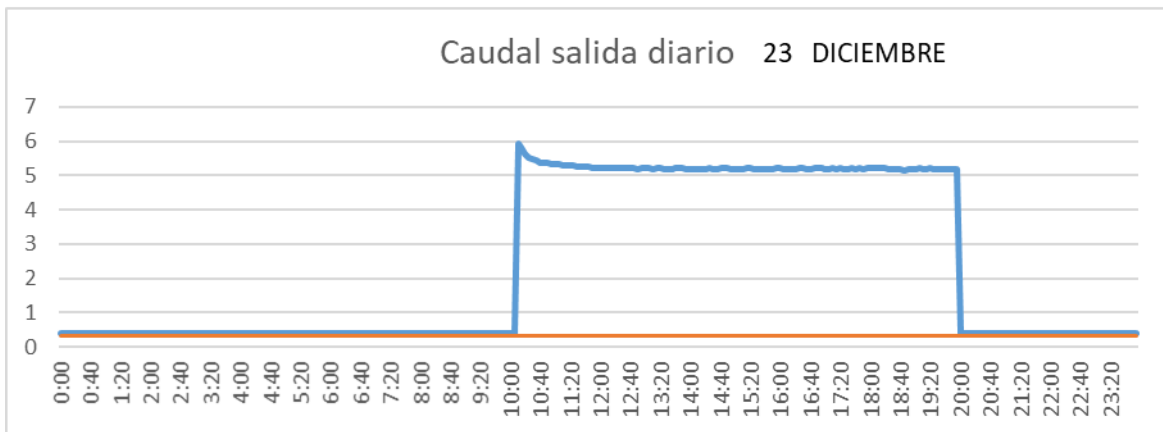
CUENCA



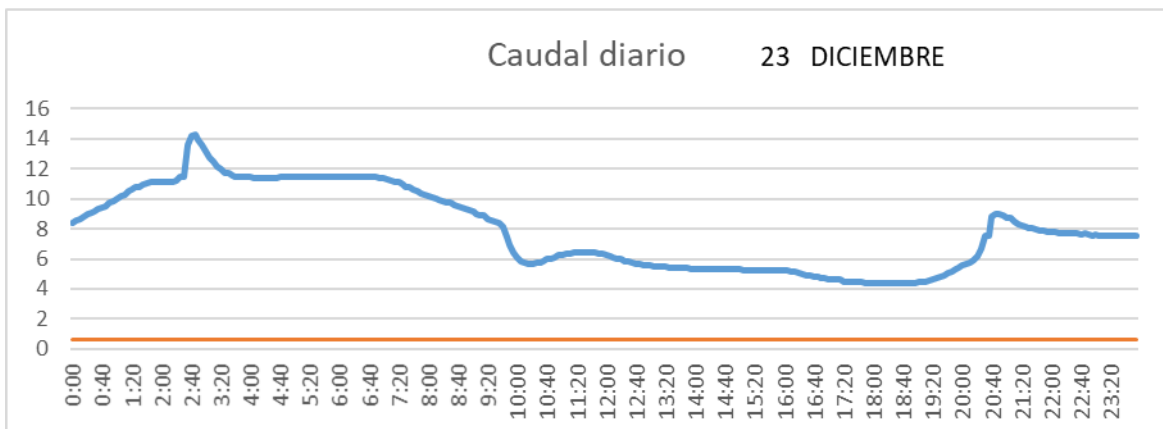
SAN LORENZO PARRILLA



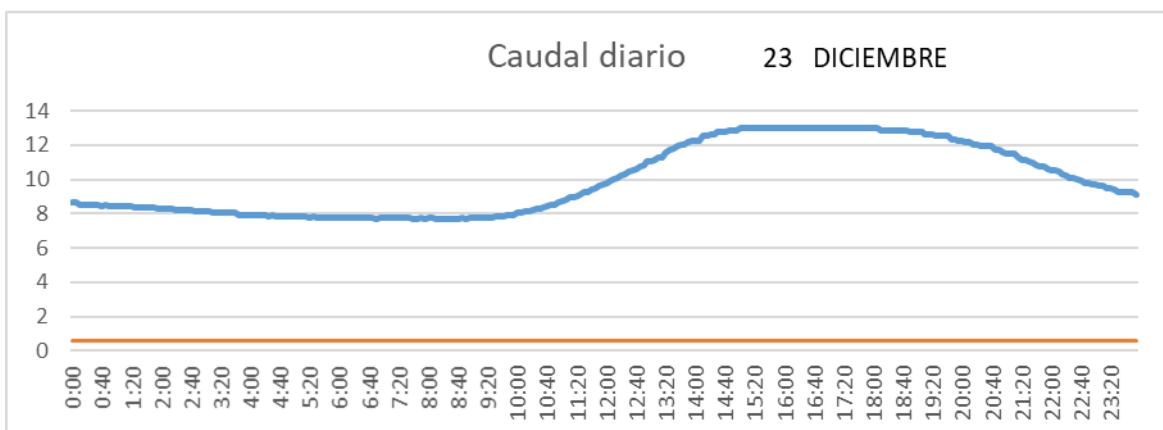
SALIDA TOBA



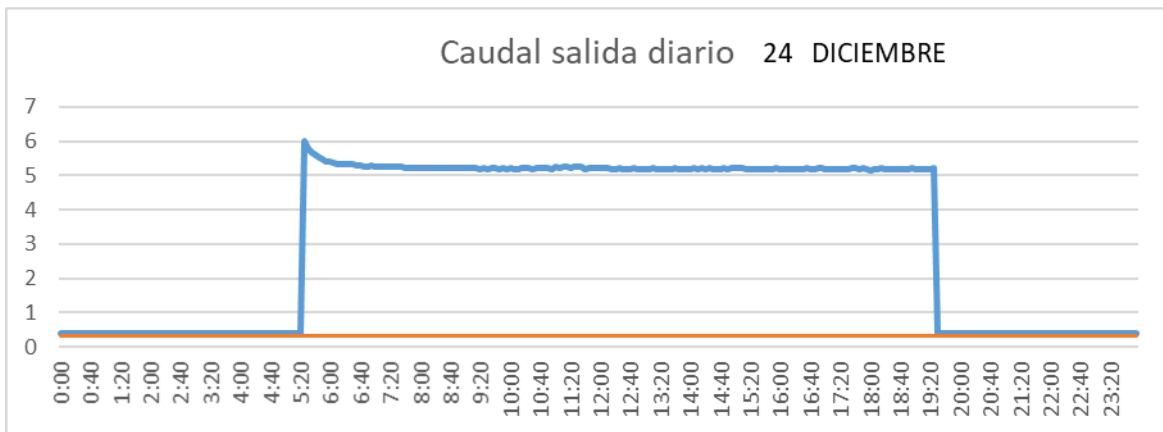
CUENCA



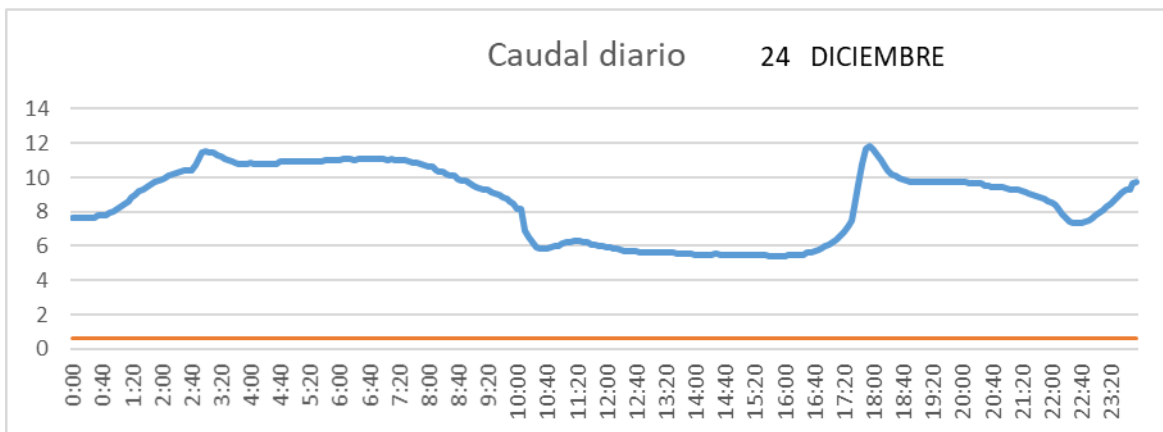
SAN LORENZO PARRILLA



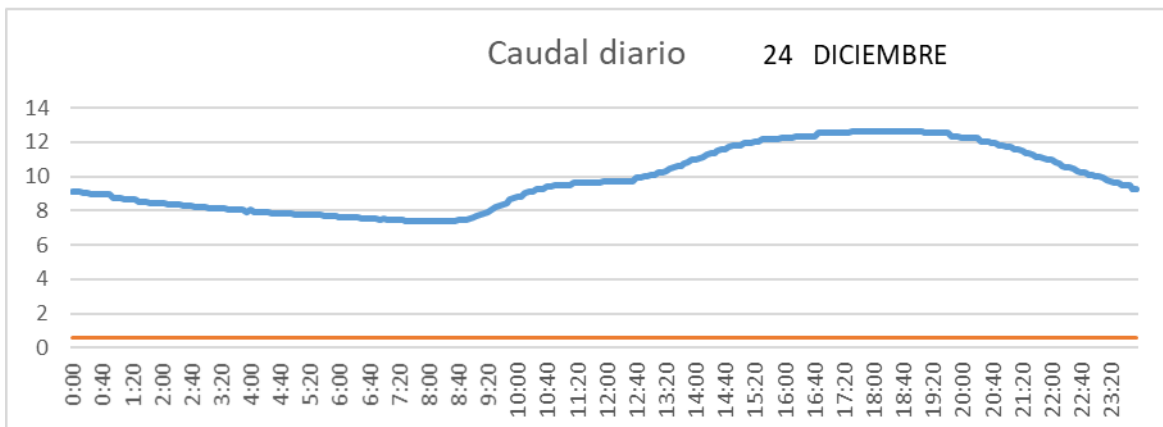
SALIDA TOBA



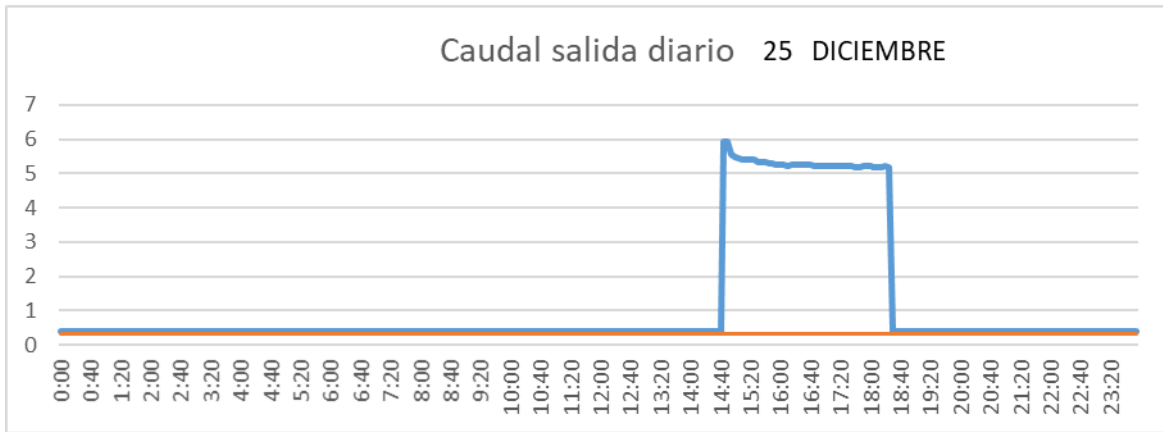
CUENCA



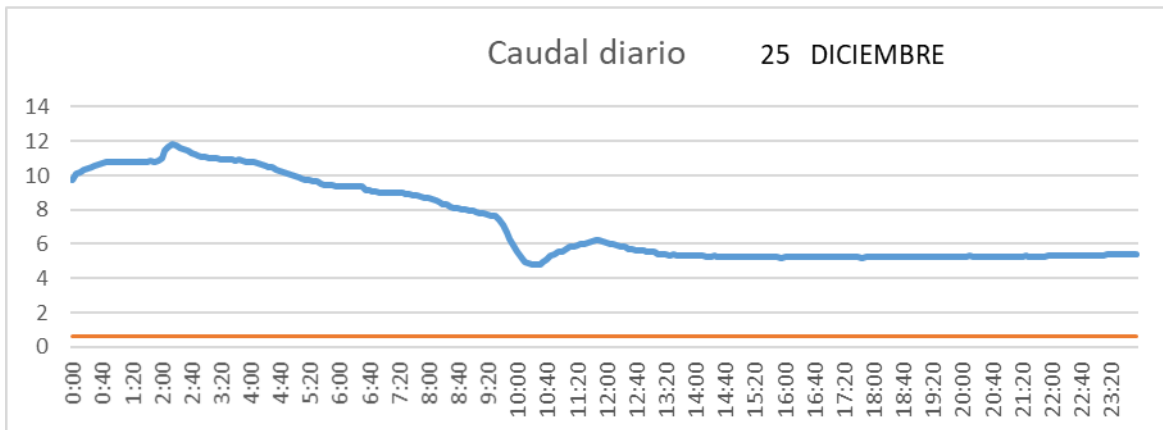
SAN LORENZO PARRILLA



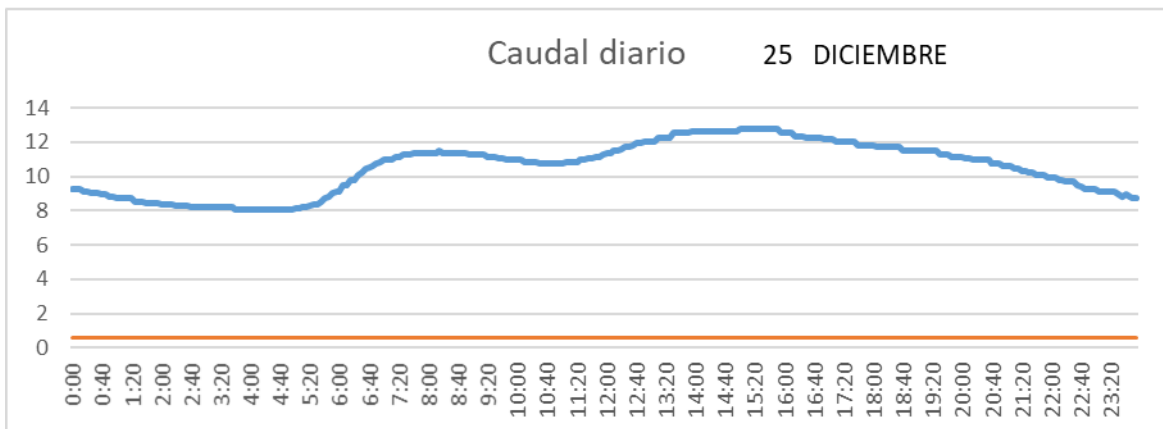
SALIDA TOBA



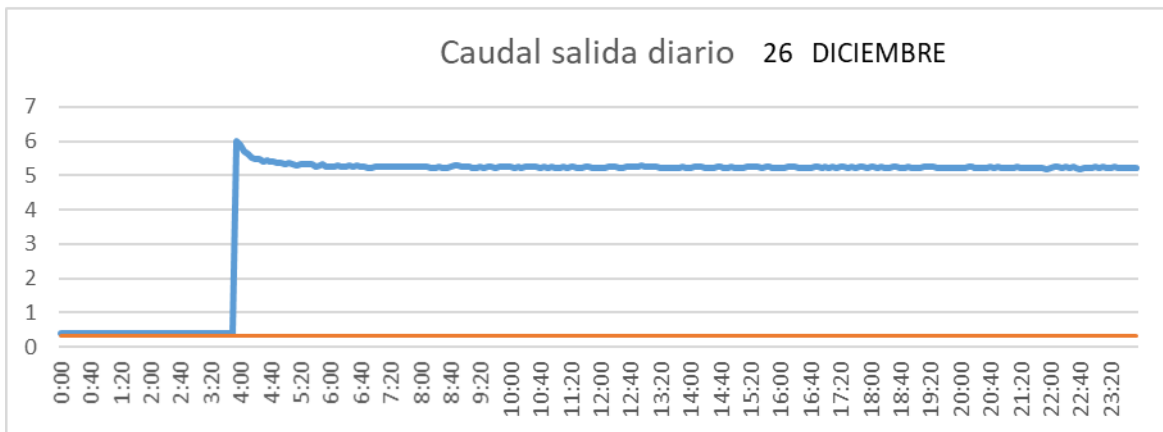
CUENCA



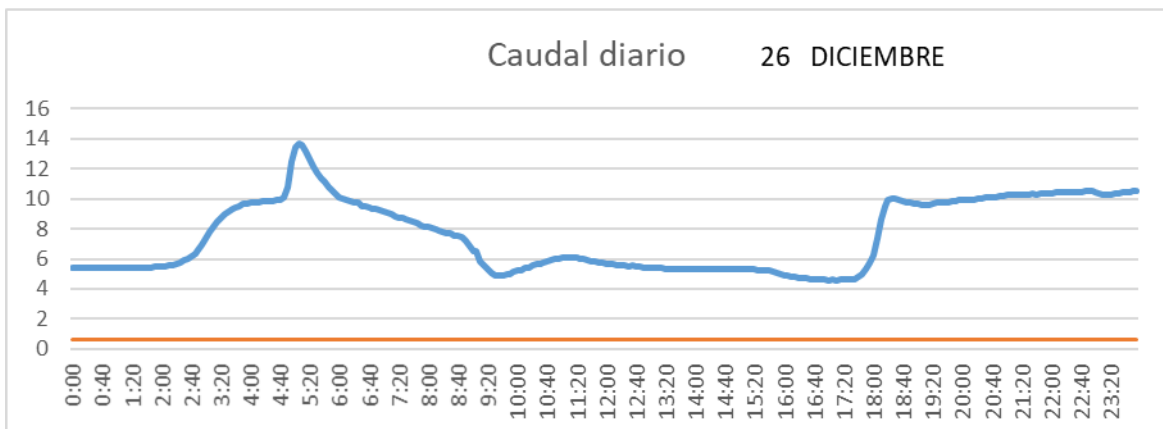
SAN LORENZO PARRILLA



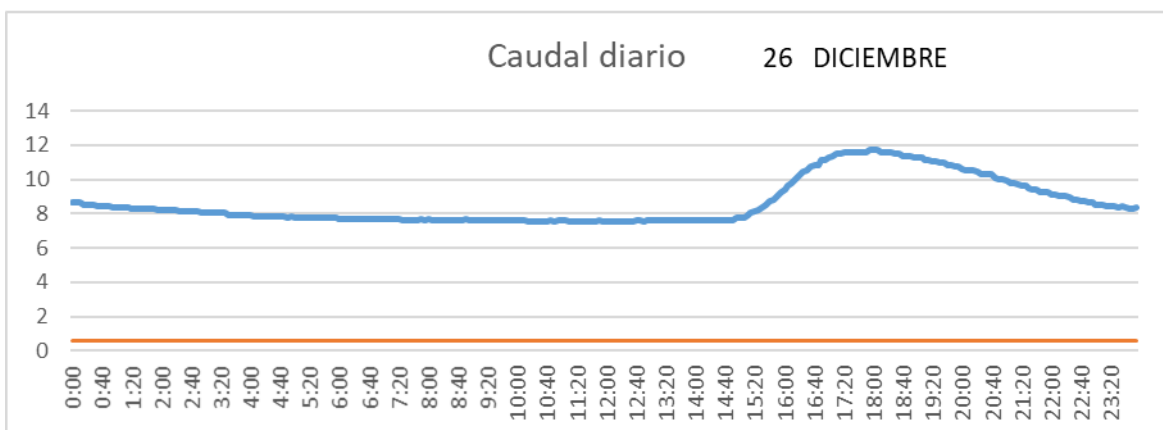
SALIDA TOBA



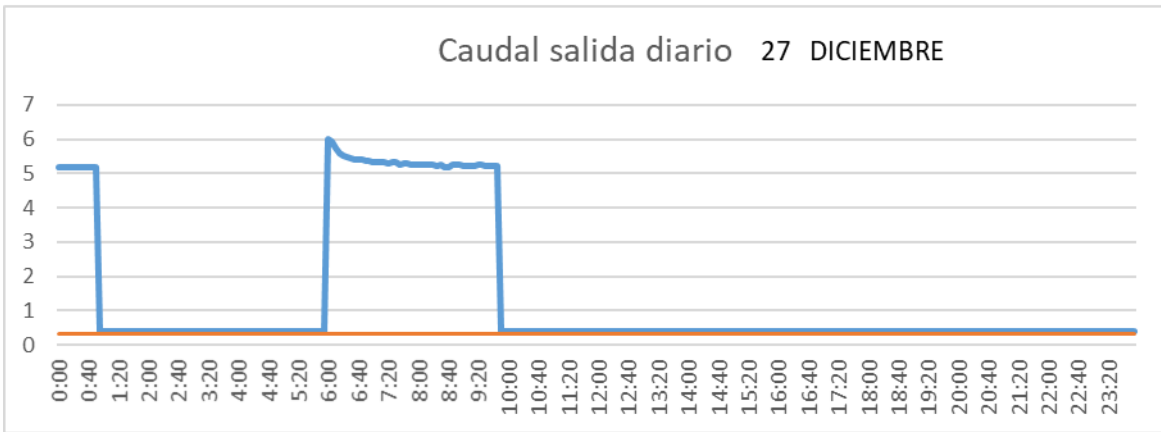
CUENCA



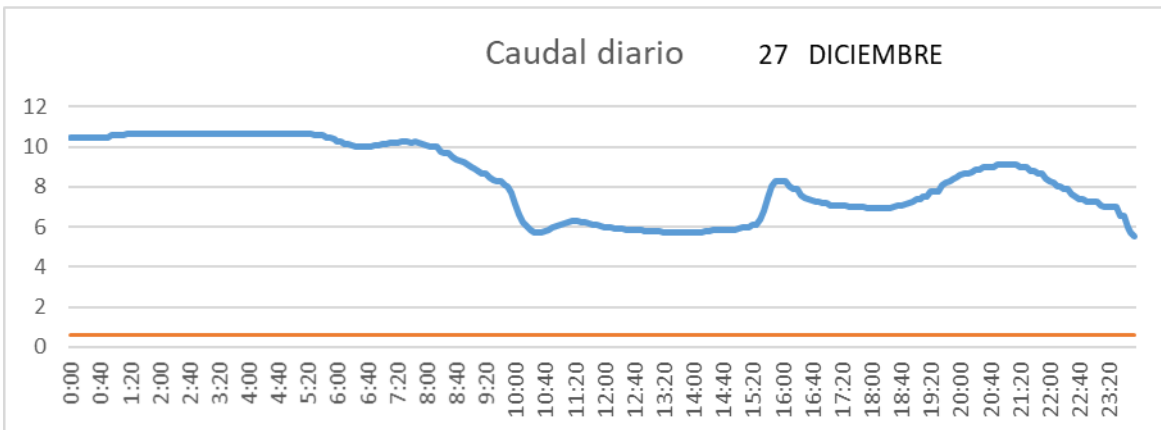
SAN LORENZO PARRILLA



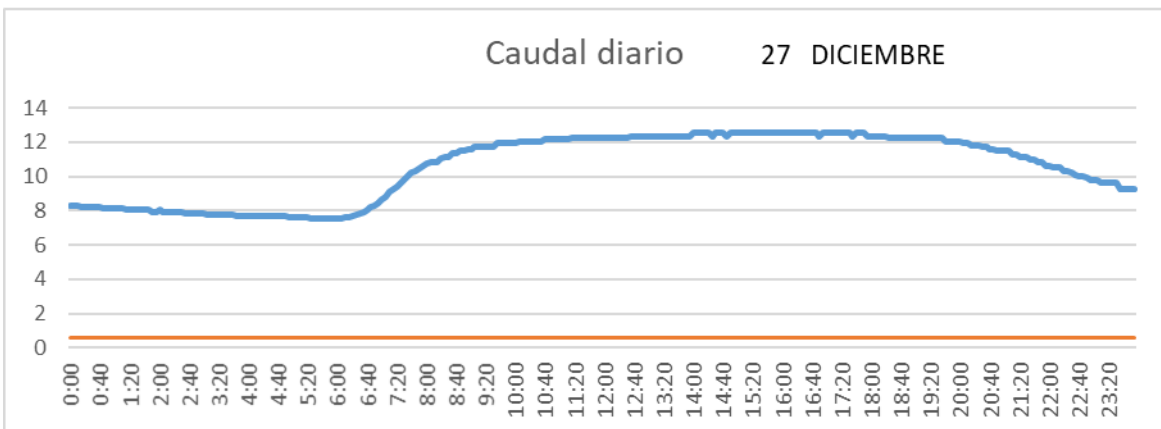
SALIDA TOBA



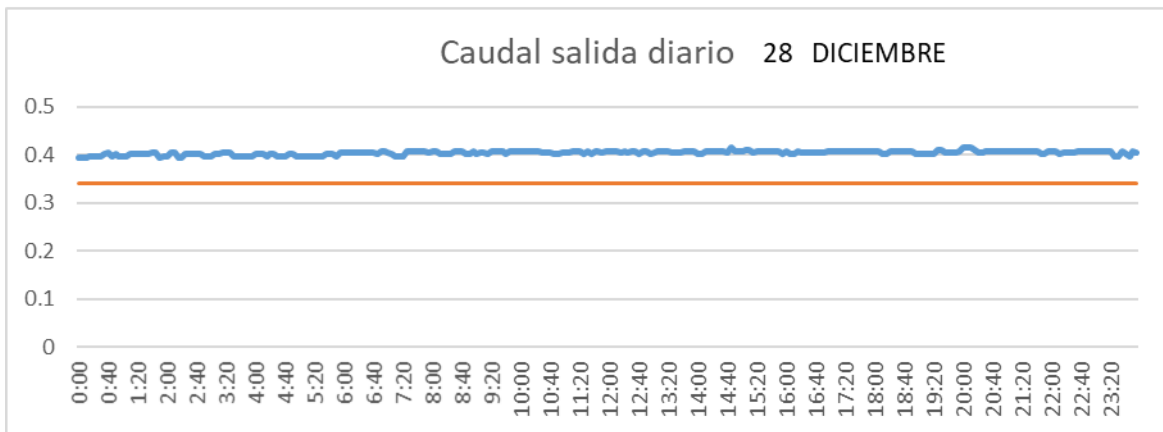
CUENCA



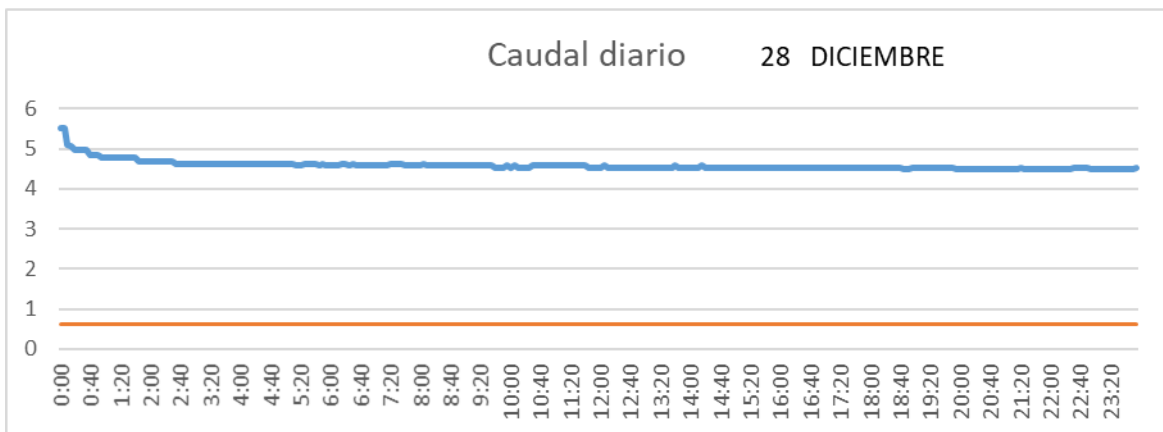
SAN LORENZO PARRILLA



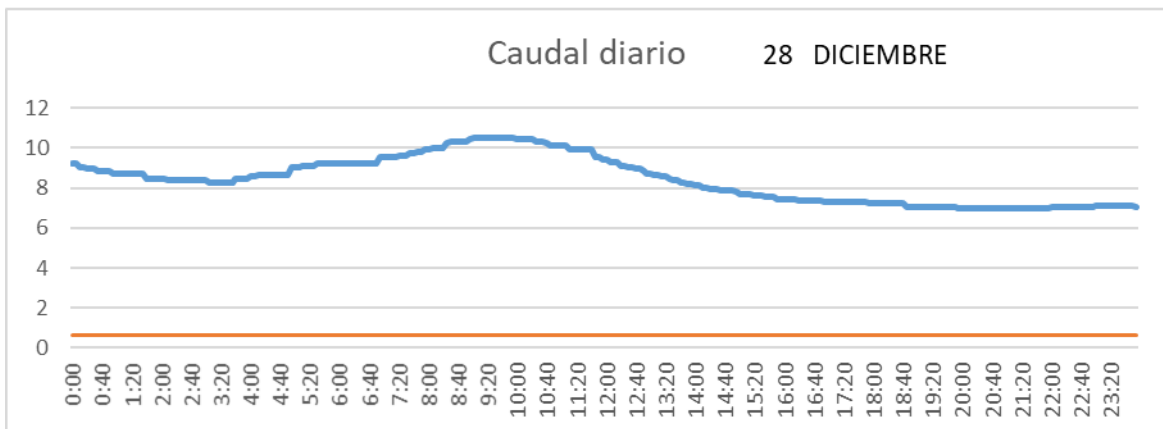
SALIDA TOBA



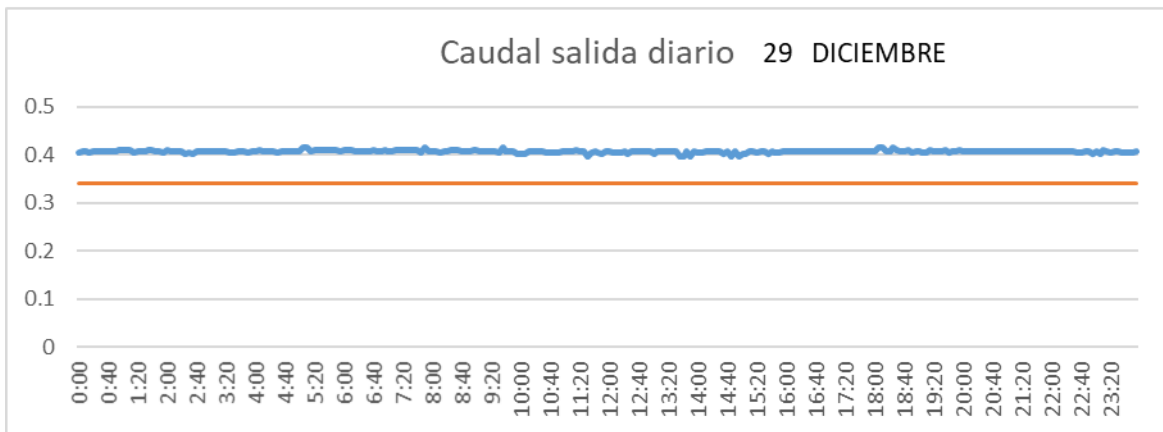
CUENCA



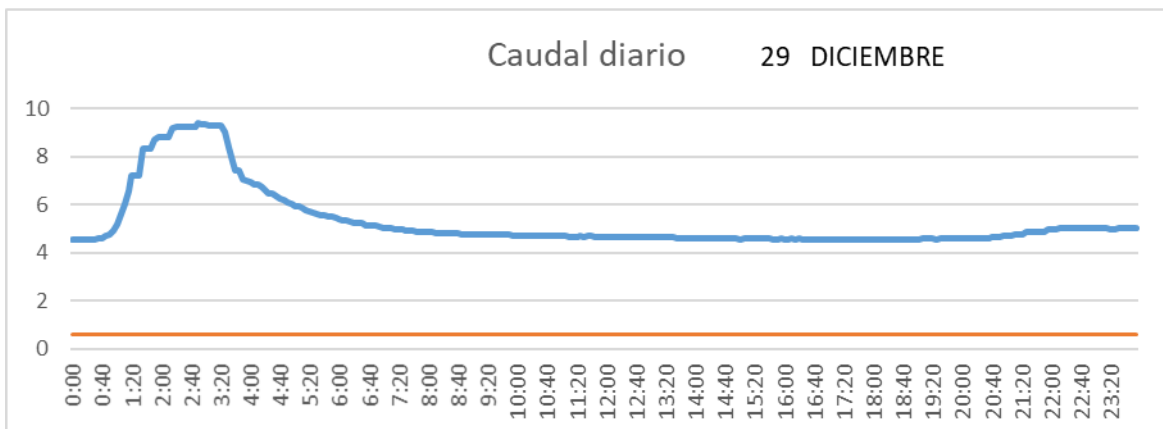
SAN LORENZO PARRILLA



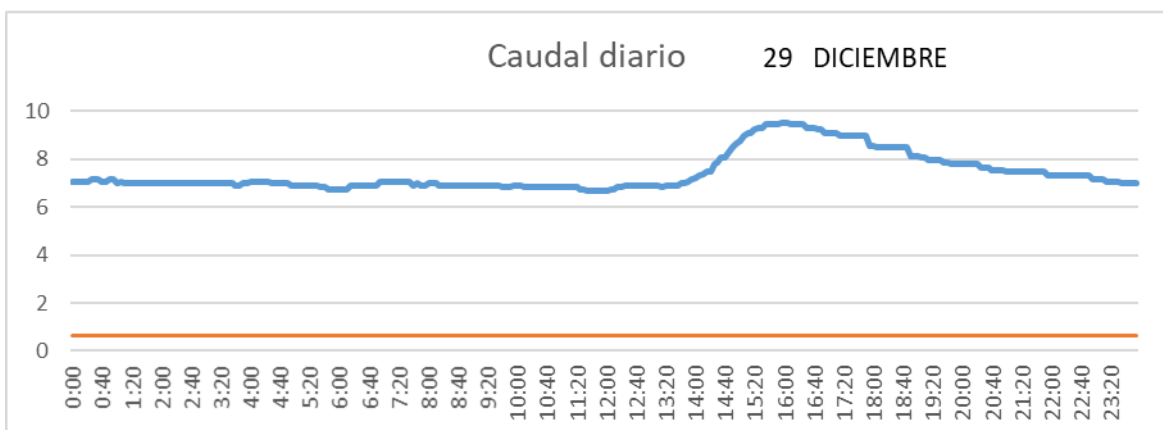
SALIDA TOBA



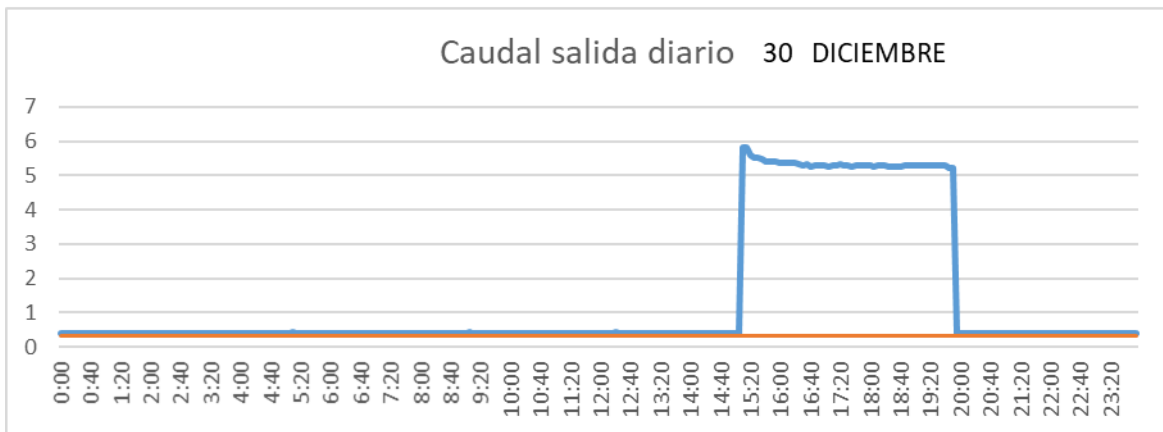
CUENCA



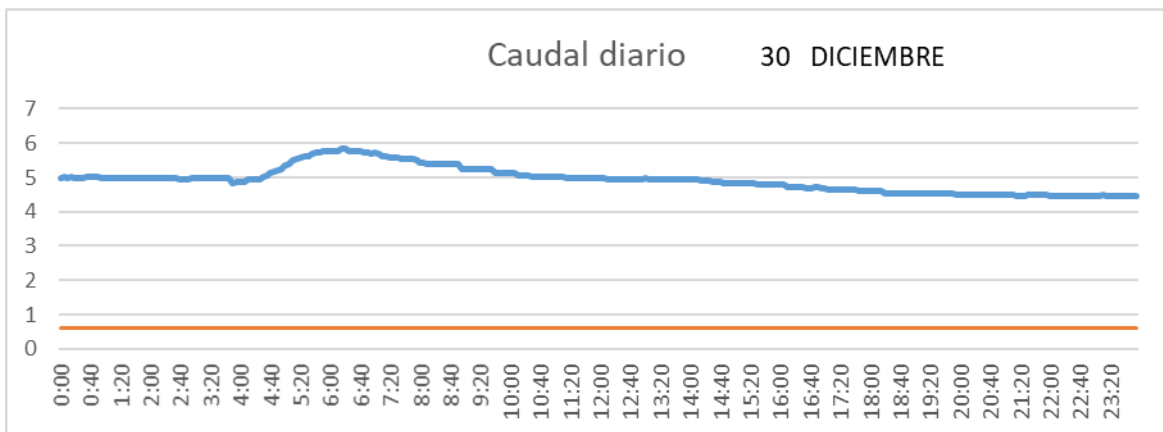
SAN LORENZO PARRILLA



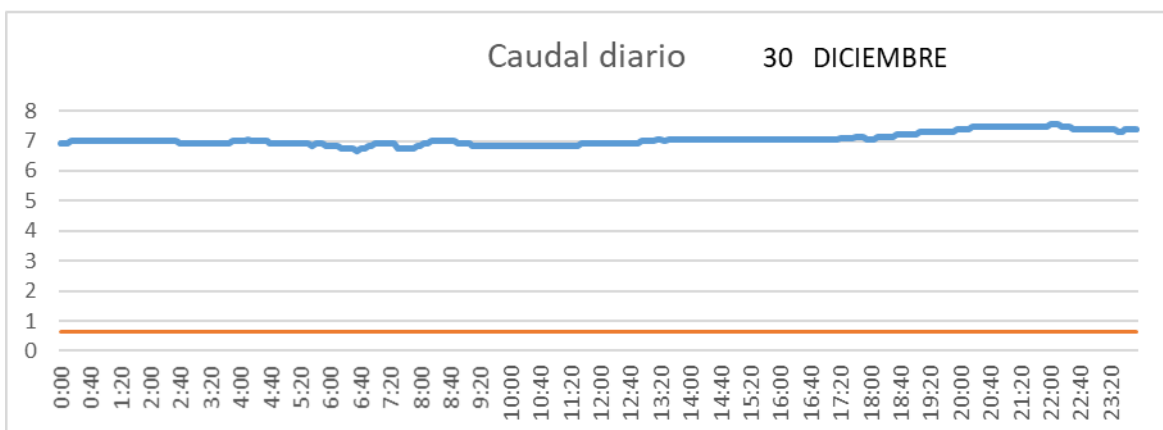
SALIDA TOBA



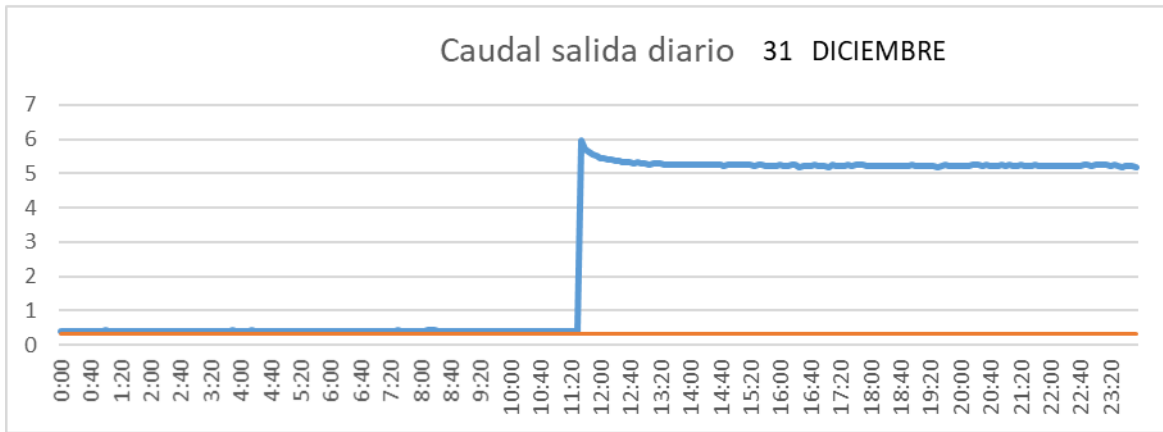
CUENCA



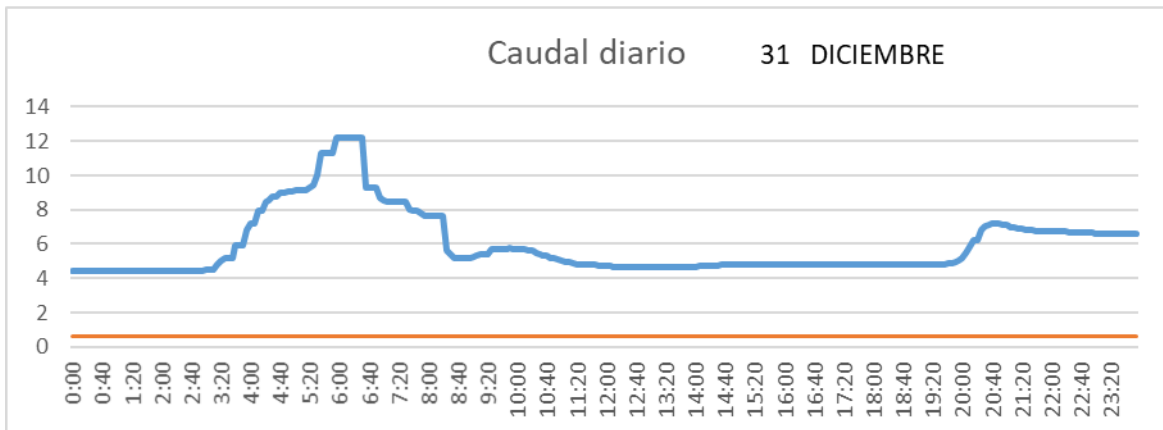
SAN LORENZO PARRILLA



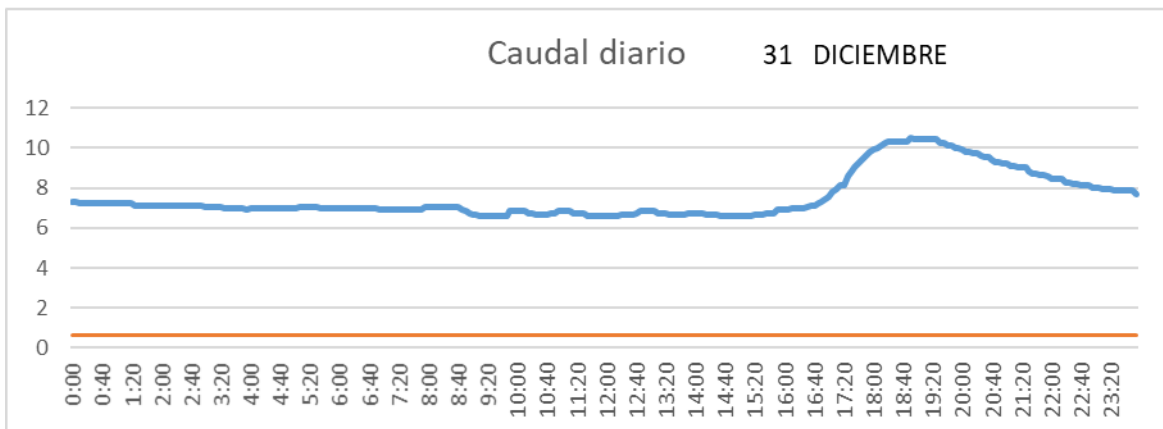
SALIDA TOBA



CUENCA



SAN LORENZO PARRILLA





3 Referencias.

CHJ, 2016. “Plan Hidrológico de cuenca 2015-2021” Plan Hidrológico del Júcar aprobado por el Real Decreto 1/2016, del 8 de enero.

CHJ, 2016. “Usos y demanda del agua” Anejo 3 del Plan Hidrológico del Júcar.

CHJ, 2016. “Usos y demandas del agua” Anejo 5 del Plan Hidrológico del Júcar.

ROEA, 2019. “Red oficial de estaciones de aforo” Base de datos de puntos singulares de cauces y canales, así como de la reserva de los embalses.

S.I.A Júcar, 2019. “Sistema de información del agua” Visor web donde se encuentra información geográfica de la Confederación.

SAIH, 2019. “Sistema Automático de Información Hidrológica” Sistema de información encargado de captar, transmitir en tiempo real, procesar y presentar aquellos datos que describen el estado hidrológico e hidráulico de la cuenca.

CEDEX, 2019. “Anuario de aforos 2015-2016” Anuario de estaciones foronómicas elaborado por el centro de estudios hidrográficos del CEDEX.