



Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
% Oxígeno (in situ)	% SAT	---	---	115,1	---	---	103,2	---	---	87,1	---	---	80,5
Cloro residual total (in situ)	mg/L	---	---	---	---	---	---	---	---	---	---	---	---
Color aparente (in situ)	----	---	---	---	---	---	---	---	---	---	---	---	---
Conductividad a 20 °C (in situ)	µS/cm	---	---	102	---	---	163	---	---	107	---	---	103
Nitritos (in situ)	mg/L	---	---	---	---	---	---	---	---	---	---	---	---
Olor (in situ)	----	---	---	---	---	---	---	---	---	---	---	---	---
Oxígeno disuelto (in situ)	mg/L	---	---	11,3	---	---	8,7	---	---	7,1	---	---	9,1
pH (in situ)	pH	---	---	8,2	---	---	8,4	---	---	7,7	---	---	6,8
Temperatura del agua "in situ" (in situ)	°C	---	---	12,8	---	---	20,2	---	---	22,7	---	---	8,3
Acenafteno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Agentes tensoactivos (aniónicos)	mg/L	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1
a-hch	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Alaclor	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Alcalinidad total	mg/L	---	---	39,2	---	---	42,0	---	---	48,2	---	---	56,1
Aldrin	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Aluminio	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Ametrin	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Amonio total	mg/L	---	---	< 0,05	---	---	< 0,05	---	---	< 0,05	---	---	1,34
Antraceno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Arsénico	µg/L	---	---	2,634	---	---	3,023	---	---	---	---	---	2,923
Arsénico	mg/L	---	---	---	---	---	---	---	---	< 0,025000	---	---	---
Atraton	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
atrazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Bario	mg/L	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500
Benceno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
Benzo(a)Antraceno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Benzo(a,h)Antraceno (Dibenzo(a,h)antraceno)	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Benzo(a)Pireno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020



Confederación Hidrográfica del Guadiana

Gestión de laboratorios

Informes

Report: R030412

Fecha: 28-01-2014

Resultados de análisis por punto de control

Página: 2

Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
Benzo(b)Fluoranteno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Benzo(g,h,i)Perileno	µg/L	---	---	< 0,040	---	---	< 0,040	---	---	< 0,040	---	---	< 0,040
Benzo(k)Fluoranteno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
b-hch	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Bicarbonatos	mg/L	---	---	39,2	---	---	42,0	---	---	48,2	---	---	56,1
Boro	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Bromodlorometano	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
Bromoformo	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
Cadmio	µg/L	---	---	< 1,000	---	---	< 0,100	---	---	---	---	---	< 0,100
Cadmio	mg/L	---	---	---	---	---	---	---	---	< 0,025000	---	---	---
Calcio	mg/L	---	---	8,9580	---	---	8,6980	---	---	9,9050	---	---	11,1100
Carbonatos	mg/L	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1
Cianuro Total	mg/L	---	---	< 0,010	---	---	< 0,010	---	---	< 0,010	---	---	< 0,010
Cinc	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Clorofeninfos	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Clorobenceno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
Cloroformo	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Clorpirifos	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Cloruros	mg/L	---	---	5,1	---	---	5,6	---	---	7,5	---	---	5,9
Cobalto	mg/L	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500
Cobre	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Color	mg/L	---	---	15,2	---	---	15,1	---	---	11,2	---	---	11,8
Conductividad a 20 °C	µS/cm	---	---	106	---	---	102	---	---	118	---	---	131
Cromo	µg/L	---	---	< 2,000	---	---	< 1,000	---	---	---	---	---	< 1,000
Cromo	mg/L	---	---	---	---	---	---	---	---	< 0,025000	---	---	---
Criseno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
D.B.O. 5d	mg/L	---	---	1,5	---	---	1,4	---	---	2,6	---	---	1,4
Desetilatrazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Desisopropilatrazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020



Confederación Hidrográfica del Guadiana

Gestión de laboratorios

Informes

Report: R030412

Fecha: 28-01-2014

Resultados de análisis por punto de control

Página: 3

Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
d-hch	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Diazinon	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Dibromoclorometano	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Diclorometano	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Diédrín	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Diuron	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
D.Q.O. 10min (Índice de Permanganato)	mg/L	---	---	4,9	---	---	6,2	---	---	7,3	---	---	6,0
D.Q.O. 2h	mg/L	---	---	< 20	---	---	< 20	---	---	25	---	---	< 20
Dureza permanente	mg/L	---	---	< 0,1	---	---	---	---	---	---	---	---	---
Dureza temporal	mg/L	---	---	33,4	---	---	---	---	---	---	---	---	---
Dureza total	mg/L	---	---	33,4	---	---	33,7	---	---	36,9	---	---	40,7
Endosulfán I	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Endosulfán II	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Endosulfán Sulfato	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Endrín	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Endrín Aldehído	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Estaño	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Estireno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
Estroncio	mg/L	---	---	< 0,5000	---	---	< 0,5000	---	---	< 0,5000	---	---	< 0,5000
Etilbenceno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Etil-Paratión	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Fenantreno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Fenoles	mg/L	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050
Fluoranteno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Fluoreno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Fluoruros	mg/L	---	---	0,12	---	---	0,13	---	---	0,15	---	---	0,14
Fosfatos	mg/L	---	---	0,12	---	---	< 0,05	---	---	< 0,05	---	---	< 0,05
Fósforo total	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000
Glifosato	µg/L	---	---	---	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050



Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
Heptacloro	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Heptacloro epóxido	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Hexaclorobenceno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Hexaclorobutadieno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Hidróxidos	mg/L	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1	---	---	< 0,1
Hierro	mg/L	---	---	0,1040	---	---	0,1787	---	---	< 0,1000	---	---	0,2457
Imazalil	µg/L	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050
Indeno(1,2,3-cd)Pireno	µg/L	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050
Investigación de Salmonella sp.	-----	---	---	---	---	---	Salmonella no Detect	---	---	Salmonella no Detect	---	---	Salmonella no Detect
Isodrin	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Isoproturon	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Lindano (g-HCH)	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Magnesio	mg/L	---	---	2,6690	---	---	2,8920	---	---	2,9580	---	---	3,1410
Malatión	µg/L	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050
Manganeso	mg/L	---	---	< 0,1000	---	---	< 0,1000	---	---	< 0,1000	---	---	0,7059
MCPA	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Mercurio	mg/L	---	---	< 0,000050	---	---	< 0,000050	---	---	< 0,000050	---	---	< 0,000050
Metil Paratión	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Metilclorpirifos	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Metolaclor	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Molinate	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
m,p-xileno	µg/L	---	---	< 2,00	---	---	< 2,00	---	---	< 2,00	---	---	< 2,00
MTBE	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Naftaleno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Níquel	mg/L	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500	---	---	< 0,0500
Nitratos	mg/L	---	---	2,9	---	---	< 1,0	---	---	< 1,0	---	---	< 1,0
Olor	-----	---	---	0	---	---	0	---	---	0	---	---	0
Oxifluorfen	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020



Confederación Hidrográfica del Guadiana

Gestión de laboratorios

Informes

Report: R030412

Fecha: 28-01-2014

Resultados de análisis por punto de control

Página: 5

Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
o-xileno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
PCB 101	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 118	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 138	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 153	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 180	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 28	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PCB 52	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Pentaclorobenceno	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
pH	pH	---	---	7,7	---	---	8,0	---	---	7,6	---	---	7,5
Pireno	µg/L	---	---	0,075	---	---	< 0,010	---	---	< 0,010	---	---	< 0,010
Plomo	µg/L	---	---	1,424	---	---	1,446	---	---	---	---	---	3,293
Plomo	mg/L	---	---	---	---	---	---	---	---	< 0,025000	---	---	---
Potasio	mg/L	---	---	1,9250	---	---	1,6360	---	---	2,0930	---	---	2,2290
PP-DDD (4,4-DDD)	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PP-DDE (4,4-DDE)	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
PP-DDT (4,4-DDT)	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Prometon	µg/L	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050	---	---	< 0,050
Prometrin	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Propazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Recuento de Coliformes fecales	UFC/100	---	---	---	---	---	< 10	---	---	< 10	---	---	< 10
Recuento de Coliformes totales	UFC/100	---	---	---	---	---	5300	---	---	< 10	---	---	320
Recuento de Estreptococos fecales	UFC/100	---	---	---	---	---	< 10	---	---	< 10	---	---	< 10
Selenio	µg/L	---	---	< 1,000	---	---	< 2,000	---	---	---	---	---	< 2,000
Selenio	mg/L	---	---	---	---	---	---	---	---	< 0,025000	---	---	---
Sílice	mg/L	---	---	15,5700	---	---	12,6600	---	---	11,3900	---	---	9,0230
Simazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Simetrín	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020



Confederación Hidrográfica del Guadiana

Gestión de laboratorios

Informes

Report: R030412

Fecha: 28-01-2014

Resultados de análisis por punto de control

Página: 6

Código: GN00000333

Nombre del punto: ARROYO DE BUENAS HIERBAS - E. Buenas Hierbas

Cauce: ARROYO DE BUENAS HIERBAS

Código de la masa de agua: 20647

Nombre de la masa de agua: EMBALSE DE BUENAS HIERBAS

Localidad: Cardeña

Provincia: Córdoba

UTM X: 377257

UTM Y: 4247075

Huso: 30

		ENERO	FEBRERO	MARZO 26-03-2013	ABRIL	MAYO	JUNIO 19-06-2013	JULIO	AGOSTO	SEPTIEMBRE 23-09-2013	OCTUBRE	NOVIEMBRE	DICIEMBRE 10-12-2013
Sodio	mg/L	---	---	9,0890	---	---	8,6690	---	---	9,3420	---	---	8,9040
Sólidos en Suspensión	mg/L	---	---	< 10	---	---	< 10	---	---	< 10	---	---	11
Sulfatos	mg/L	---	---	< 5,0	---	---	< 5,0	---	---	< 5,0	---	---	< 5,0
Terbutilazina	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Terbutrín	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
Tetracloroetileno (Percloroetileno)	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Tetracloruro de Carbono	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Tolueno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Tricloroetileno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
Trifluralín	µg/L	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020	---	---	< 0,020
1,1,1-tricloroetano	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
1,2-diclorobenceno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
1,2-Dicloroetano	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
1,2,3-triclorobenceno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
1,2,4-triclorobenceno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
1,3-diclorobenceno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50
1,3,5-triclorobenceno	µg/L	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00	---	---	< 1,00
1,4-diclorobenceno	µg/L	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50	---	---	< 2,50