

Water Analysis

Lake Naivasha Monitoring



Customer:	LNRA	Water Use:	Fresh water	Date Received:	23-Jan-09
Farm Name:	LNRA	Crop Stage:		Report Date:	5-Feb-09
Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0091

Water Source: STN 1

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 1

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.64	6.50	8.50				pH	7.64	7.71	8.14	8.45	8.64
Electrical Conductivity	mS cm ⁻¹	0.33		< 1.50				EC	0.33	0.3	0.3	0.3	0.32
Colour	TCU	10.00		< 15.00				Col	10.00	10	10	10	0
Total Suspended Solids	ppm	408		< 25				TSS	408	188	160	152	408
Nitrate N	ppm	0.18		< 11.00				NO3N	0.18	0.08	0.01	0.15	0.08
Total P	ppm	0.10		< 10.00				T-P	0.10	0.12	0.17	0.1	0.1
Total dissolved solids	ppm	148		< 1000				TDS	148	136	136	132	136
Ammonium	ppm	0.00		< 1.50				NH4	0.00	0	0.11	0.01	0.3
Phosphorus	ppm	0.01		< 0.20				P	0.01	0.05	0.01	0.01	0.03
Total N	ppm	0.01		< 10.00				T-N	0.01	0.04	1.68	0.42	0.03

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Farm Name:	LNRA	Crop Stage:		Report Date:	5-Feb-09
Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0092

Water Source: STN 2

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 2

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.88	6.50	8.50				pH	7.88	8.24	8.19	8.4	8.55
Electrical Conductivity	mS cm ⁻¹	0.33		< 1.50				EC	0.33	0.3	0.3	0.3	0.32
Colour	TCU	10.00		< 15.00				Col	10.00	10	10	10	0
Total Suspended Solids	ppm	244		< 25				TSS	244	200	132	144	368
Nitrate N	ppm	0.20		< 11.00				NO3N	0.20	0.09	0.01	0.1	0.11
Total P	ppm	0.06		< 10.00				T-P	0.06	0.11	0.14	0.1	0.1
Total dissolved solids	ppm	152		< 1000				TDS	152	132	136	136	136
Ammonium	ppm	0.04		< 1.50				NH4	0.04	0	0.09	0.01	0
Phosphorus	ppm	0.01		< 0.20				P	0.01	0.02	0.01	0.01	0.01
Total N	ppm	0.01		< 10.00				T-N	0.01	0.06	1.26	0.28	0.02

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Farm Name:	LNRA	Crop Stage:		Report Date:	5-Feb-09
Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0093

Water Source: STN 3

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 3

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.74	6.50	8.50				pH	7.74	7.97	7.44	8.26	8.19
Electrical Conductivity	mS cm ⁻¹	0.33		< 1.50				EC	0.33	0.31	0.31	0.31	0.31
Colour	TCU	10.00		< 15.00				Col	10.00	10	10	10	0
Total Suspended Solids	ppm	420		< 25				TSS	420	260	180	136	364
Nitrate N	ppm	0.22		< 11.00				NO3N	0.22	0.09	0.01	0.15	0.41
Total P	ppm	0.06		< 10.00				T-P	0.06	0.11	0.18	0.08	0.14
Total dissolved solids	ppm	148		< 1000				TDS	148	140	136	136	132
Ammonium	ppm	0.01		< 1.50				NH4	0.01	0.02	0.07	0.01	0.11
Phosphorus	ppm	0.01		< 0.20				P	0.01	0.02	0.01	0.01	0
Total N	ppm	0.01		< 10.00				T-N	0.01	0.08	0.42	0.42	0.01

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Farm Name:	LNRA	Crop Stage:		Report Date:	5-Feb-09
Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0094

Water Source: STN 4

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 4

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.59	6.50	8.50				pH	7.59	7.14	6.72	8.22	8.35
Electrical Conductivity	mS cm ⁻¹	0.33		< 1.50				EC	0.33	0.28	0.09	0.31	0.37
Colour	TCU	10.00		< 15.00				Col	10.00	20	40	10	0
Total Suspended Solids	ppm	28		< 25				TSS	28	328	640	232	276
Nitrate N	ppm	0.22		< 11.00				NO3N	0.22	0.05	0.17	0.13	0.09
Total P	ppm	0.40		< 10.00				T-P	0.40	0.06	0.29	0.08	0.12
Total dissolved solids	ppm	152		< 1000				TDS	152	128	40	140	156
Ammonium	ppm	0.01		< 1.50				NH4	0.01	0.12	0	0.01	0
Phosphorus	ppm	0.01		< 0.20				P	0.01	0.05	0.06	0.01	0
Total N	ppm	0.01		< 10.00				T-N	0.01	0.04	1.26	0.84	0.04

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Farm Name:	LNRA	Crop Stage:		Report Date:	5-Feb-09
Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0095

Water Source: STN 5

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 5

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.71	6.50	8.50				pH	7.71	7.86	7.25	7.19	8.17
Electrical Conductivity	mS cm ⁻¹	0.45		< 1.50				EC	0.45	0.37	0.35	0.36	0.35
Colour	TCU	50.00		< 15.00				Col	50.00	20	10	10	0
Total Suspended Solids	ppm	1140		< 25				TSS	1140	284	408	328	396
Nitrate N	ppm	0.18		< 11.00				NO3N	0.18	0.04	0.01	0.11	0.12
Total P	ppm	0.32		< 10.00				T-P	0.32	0.09	0.2	0.15	0.18
Total dissolved solids	ppm	200		< 1000				TDS	200	168	160	164	148
Ammonium	ppm	0.07		< 1.50				NH4	0.07	0.06	0.01	0.56	0
Phosphorus	ppm	0.01		< 0.20				P	0.01	0.04	0.01	0.01	0
Total N	ppm	0.01		< 10.00				T-N	0.01	0.15	1.96	0.42	0.03

COMMENTS

Excess water colour can be caused by dissolved organic matter or suspended material, rendering water to be offensive to the user

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Contact Person:	Mbogo	Comments:		Sample ID:	CL037WA0096

Water Source: STN 6

To maintain the correct history ensure that the next sample sent from this Water Source is labelled: STN 6

History (Last 4 analysis)

Parameter	Unit	Result	Guide Low	Guide High	Low	Normal	High	Symbol	Current	27-11-08	28-10-08	29-09-08	26-08-08
pH		7.74	6.50	8.50				pH	7.74	7.88	7.63	7.88	8.68
Electrical Conductivity	mS cm ⁻¹	0.39		< 1.50				EC	0.39	0.37	0.38	0.37	0.31
Colour	TCU	10.00		< 15.00				Col	10.00	10	10	10	0
Total Suspended Solids	ppm	232		< 25				TSS	232	152	164	124	284
Nitrate N	ppm	0.27		< 11.00				NO3N	0.27	0.07	0.01	0.12	0.19
Total P	ppm	0.08		< 10.00				T-P	0.08	0.08	0.21	0.05	0.4
Total dissolved solids	ppm	172		< 1000				TDS	172	168	168	164	132
Ammonium	ppm	0.03		< 1.50				NH4	0.03	0.07	0.09	0.01	0
Phosphorus	ppm	0.06		< 0.20				P	0.06	0.03	0.01	0.01	0
Total N	ppm	0.01		< 10.00				T-N	0.01	0.1	2.24	0.42	0.04

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