

DB-1

RESULT OF WELL WATER QUALITY ANALYSIS

The comparisons of the water quality test results at each well with the tempera standards for raw water usable for drinking and living (Phase 2)

POZO No.	As mg/L	B mg/L	Cd mg/L	Ct-Total mg/L	CN Total mg/L	F- mg/L	Pb mg/L	Hg mg/L	Ni mg/L	NO3-N mg/L	NO2-N mg/L	Se mg/L	Sb mg/L	Ba mg/L	Be mg/L	Cu mg/L	Mn mg/L	Mo mg/L	Color HAZU	Turbiedad NTU	TEMPERATURA °C	Indice de Langelier	CONDUCTIVIDAD a 25°C µS/cm	Al total mg/L	Amonio mg/L	Cl mg/L	DUREZA TOTAL CaCO3 mg/L	Sulfuro de Hidrogeno mg/L	Fe TOTAL mg/L	pH Unidades	Na mg/L	SO4 mg/L	Sólidos Totales mg/L	Zn TOTAL mg/L	Mg mg/L	K mg/L	HCO3 mg/L	CO3 mg/L	Ca mg/L	ALCALINIDAD CaCO3 mg/L	N M P ESCHERICHIA COLI Microorganismos /100 ml	N M P COLIFORMES TOTALES Microorganismos /100 ml	OXIGENO DISUELTO mg/L	Olor	
VILLAPINZON	10-0013	0.0000	0.1582	0.0000	0.0000	0.1130	0.0000	0.0000	0.0000	6.4700	0.0000	0.0000	0.0000	0.2400	0.0000	0.0000	0.1150	0.0000	10	5	18.4	-2.220	343	0.0000	0.0000	0.0000	28.5	0.70	6.500	7.28	46.800	0	235	0.036	2.80	4.10	208.0	0.0	6.80	170.3	0	3500	4.200	No	
BARANDILLAS	209-B-004	0.0000	0.0000	0.0000	0.0000	0.0663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5	1	17.2	-4.700	50.7	0.0000	0.5300	1.4100	13.3	1.90	0.000	5.9	2.300	0	37	0.088	1.00	1.60	22.2	0.0	3.70	18.2	0	0	0.830	No	
JUAN AMARILLO	227-IV-B-445	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	22	18.3	-3.900	733	0.0000	7.8700	189.0000	124.4	0.69	4.400	6.1	83.600	2.4	492	0.017	5.50	2.90	74.9	0.0	40.80	61.4	0	1	0.810	sulfuros	
TUNJUELITO RIVER	227-IV-C-044	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	2	24.1	-1.750	444	0.0000	11.7700	4.9900	24.1	0.97	0.300	7.6	74.000	0	302	0.355	2.40	3.80	251.0	0.0	5.70	238.2	0	1	5.830	sulfuros	
BOGOTA RIVER	246-B-A-104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5	0	28.1	-3.380	287	0.0000	0.7600	15.9700	52.6	3.02	5.000	6.02	33.400	18	148	0.023	5.70	1.50	124.0	0.0	11.70	102.0	0	0	0.450	No	
AGRICULTURAL	227-IV-A-264	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10	2	26	-2.820	388	0.0000	3.9700	49.2000	18.9	0.03	0.000	6.68	62.300	0	211	0.024	1.80	8.60	129.0	0.0	4.60	106.1	0	23	3.150	No	
INDUSTRY AREA	09-011	0.0000	0.1425	0.0000	0.0043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	84	18.3	-2.590	317	0.0000	6.9900	0.0000	16.7	2.90	0.400	7.11	60.000	0	242	0.132	1.30	3.60	204.0	0.0	4.20	167.3	0	1	6.800	Oil and	
GUADALUPE	227-IV-A-349	0.0000	0.1503	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	10	20.4	-3.170	289	0.0000	3.3700	14.8700	17.8	0.10	11.500	6.43	52.900	0	158	0.036	1.60	1.80	149.0	0.0	4.50	122.4	0	0	2.730	No	
QUATERNARY	227-IV-B-307	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10	1	19.9	-3.300	149.5	0.0000	0.6390	0.0000	64.4	0.00	1.200	6.3	1.700	5.7	352	0.100	2.00	2.40	82.1	0.0	22.50	161.3	0	0	5.680	No	
ISOTOPE	227-IV-A-511	0.0000	0.1582	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	13	20.7	-2.900	375	0.0000	0.1720	20.000	93.6	0.00	7.000	31.300	0	195	0.038	3.40	3.20	135.0	0.0	31.90	110.8	0	0	6.040	No		
EAAB	EAAB-Ctr. 7 No.	0.0000	0.1503	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	1	18.8	-1.870	610	0.0000	0.8290	4.0000	39.4	0.53	0.300	7.53	88.400	0	331	0.040	3.70	5.80	378.0	0.0	9.70	310.1	0	39	6.340	No	
JICA	J-3 SIBERIA	0.0000	0.1347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	30	0	19	-2.300	1173	0.0000	3.7400	19.6440	87.0	0.52	0.900	6.53	66.600	4.2	286	0.014	2.90	11.30	299.0	0.0	30.10	244.8	0	0	0.210	1.510	Yes
Termales	Pozo Termales Tabio	0.0000	0.0000	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	5	0	-5.0	-1.300	27.000	0.0000	1.4000	139.9	0.42	0.000	7.5	498.000	0	1451	0.011	4.40	3.60	222	0.0	48.80	182.4	0	2	2.990	No		

 Wells exceeded the water quality standard for raw water usable for drinking and living if treated by the traditional treatment
 Wells exceeded the water quality standard for raw water usable for drinking and living if treated by Chlorination
 Wells exceeded the Colombian water quality standard for potable water
 Wells exceeded the guideline for potable water (No standard value in Colombia)
 Blue Letter
 Wells in actual use for drinking

 Wells exceeded the water quality standard for raw water usable for drinking and living if treated by the traditional
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 Blue Letter
 Wells in actual use for drinking

The comparisons of the water quality test results at each well with the quality standards for raw water usable for drinking and living (Phase 3)

	No. CIC	No. POZO	As µg/L	B mg/L	Cd µg/L	Cr total µg/L	CN- mg/L	F- mg/L	Pb µg/L	Hg µg/L	Ni µg/L	NO3 -N mg/L	NO2 -N µg/L	Se µg/L	Sb µg/L	Ba µg/L	Be µg/L	Cu µg/L	Mn µg/L	Mo µg/L	Color Aparete (Haze n)	Color Verda. (Haze n)	Turbid. dad UNT	TEMP ERAT URA °C	Indice	CON DUCT IVIDAD µS/cm (25°C)	Alumi nio mg/L	Amoni o mg/L	Cl mg/L	Sólido s Totale s mg/L	Sulfur o de Hidro geno mg/L	Fe mg/L	pH Unida des	Na mg/L	SO4 mg/L	Sólido s Dis. mg/L	Zinc mg/L	Mg mg/L	K mg/L	HCO3 mg/L	CO3 mg/L	Ca mg/L	ALCA LIND AD CaCO 3 mg/L	NMP Escher ichia coli porg./ 100cm 3	NMP Colifo mes Totale s porg./ 100cm 3	O2 DISU ELTO mg/L	OLOR
VILLAPINZÓN	402	209-II-D-054	<5	<0.12	<0.5	<1.5	<0.07	0.06	<3	<0.5	11	0.19	<6	<4	<1	83	<1.5	4.1	793	<10	150	160	160	20.6	-3.92	110	N.D	ND	0.71	105	5.137	13.5	6.78	1.29	4.08	153	0.033	1.17	0.63	40.581	0	1	33.263	0	0	-	Azufr
	403	209-II-D-093	<5	<0.12	1.7	2	<0.07	0.11	<3	<0.5	<5	1.04	<6	<4	<1	69	<1.5	<1	31	<10	20	15	4	15.1	-4.38	39.4	N.D	0.3672	0.71	4	2.0625	<0.2	6.62	2.08	<2	24	0.108	0.89	1.79	17.327	0	2.8	14.202	0	0	-	Inolor
	401	209-IV-A-004	<5	<0.12	<0.5	<1.5	<0.07	0.03	<3	<0.5	<5	3.37	25.146	<4	<1	132	<1.5	6.1	20	<10	5	5	1	16.8	-3.90	79.7	N.D	0.99	6.75	1	2.0625	<0.2	7.1	7.4	<2	42	0.035	1.41	2.05	17.783	0	3.3	14.576	0	100	8.47	Inolor
BARANDILLAS	407	209-III-D-036	<5	<0.12	<0.5	<1.5	<0.07	0.12	<3	<0.5	<5	0.46	<6	<4	<1	69	<1.5	<1	61	<10	70	60	4	16	-3.85	97.8	N.D	0.3389	2.49	3	2.0625	5.2	6.753	12.2	<2	81	0.016	0.73	1.18	54.717	0	1.6	44.85	0	160	5.64	Inolor
	406	209-III-C-013	<5	<0.12	<0.5	1.9	<0.07	0.1	<3	<0.5	<5	0.23	<6	<4	<1	180	<1.5	2.3	128	<10	150	150	31	18.9	-1.66	1148	N.D	0.366	360	42	4.125	0.44	7.89	363	<2	771	0.074	4.5	2.17	154.12	0	23	126.32	0	0	5.85	Inolor
	404	209-III-D-077	<5	<0.12	<0.5	<1.5	<0.07	0.04	<3	<0.5	<5	0.12	<6	<4	<1	112	<1.5	3.5	24	<10	5	5	2	17.7	-4.48	42.7	N.D	ND	<0.2	3	ND	0.3	6.62	1.89	<2	19	0.017	0.47	0.87	17.327	0	1.8	14.202	0	0	7.46	Inolor
	408	209-III-D-49	<5	<0.12	<0.5	<1.5	<0.07	0.42	<3	<0.5	<5	0.86	<6	<4	<1	105	<1.5	<1	115	<10	60	50	15	18.3	-3.1	144	N.D	ND	<0.2	16	3.962	5.1	7.1	19.8	<2	153	0.024	2.22	2.34	95.754	0	5.5	78.487	0	0	<0.2	Inolor
	405	228-I-C-018	<5	<0.12	<0.5	<1.5	<0.07	0.15	<3	<0.5	<5	0.36	<6	<4	<1	95	<1.5	3	78	<10	600	600	615	16.9	-2.94	302	N.D	0.37	3.55	1213	8.25	0.42	7.06	38	<2	196	0.039	3.01	2.93	182.39	0	3.9	149.5	0	0	0.6	Azufr
JUAN AMARILLO	469	227-IV-B-361	<5	<0.12	<0.5	<1.5	<0.07	0.09	<3	<0.5	<5	0.42	<6	<4	<1	117	<1.5	2	34	<10	200	180	64	20.6	-1.45	712	0.011	N.D	21.3	149	2.0625	<0.2	7.9	64	<2	356	0.673	10.2	9.7	402.17	0	15	329.64	0	2	4.3	Fétido
	455	227-IV-B-445	<5	0.28	<0.5	<1.5	<0.07	0.44	<3	<0.5	<5	0.44	<6	<4	<1	151	<1.5	<1	69	<10	70	70	9	26.7	-2.5	664	N.D	0.059	40.5	4	ND	1.56	7.2	124	<2	415	0.027	1.9	6	326.47	0	4.7	267.60	0	0	<0.2	Inolor
RÍO TUNJUELITO	414	07-0005	<5	<0.12	<0.5	<1.5	<0.07	0.24	<3	<0.5	<5	0.36	<6	<4	<1	205	<1.5	<1	71	<10	70	70	4	21.5	-3.28	237	N.D	1.95	4.97	1	4.125	6.3	6.72	37	<2	170	0.023	1.57	1.98	150.47	0	7.6	123.33	0	0	0.6	Inolor
	412	07-0020	<5	0.13	<0.5	<1.5	<0.07	0.13	<3	<0.5	<5	0.38	<6	<4	<1	161	<1.5	<1	38	<10	120	100	14	18.3	-2.6	414	N.D	41.97	<0.2	87	4.125	1.63	7.1	43.1	<2	205	0.016	2.91	5.4	265.37	0	7	217.52	0	0	5	Inolor
	415	19-0009	<5	<0.12	<0.5	<1.5	<0.07	0.12	<3	<0.5	<5	<0.1	<6	<4	<1	444	<1.5	<1	126	<10	140	70	40	24	-3.06	290	N.D	0.9	16	13	4.125	5.2	6.49	36.7	17.5	152	N.D	5.82	1.63	135.88	0	12	111.37	0	0	1.6	Inolor
	410	227-IV-C-51	<5	<0.12	<0.5	<1.5	<0.07	0.27	<3	<0.5	<5	0.33	<6	<4	<1	148	<1.5	7.3	36	<10	70	50	3	21	-2.35	386	N.D	17.58	12.1	6	4.125	1.31	7.5	51	<2	364	0.032	2.25	2.9	220.69	0	5.5	180.89	0	0	5.1	Inolor
	411	227-IV-C-80	<5	<0.12	<0.5	<1.5	<0.07	0.16	<3	<0.5	<5	0.28	<6	<4	<1	127	<1.5	4.7	49	<10	160	100	8	18.3	-2.62	413	N.D	21.786	9.94	3	2.0625	1.78	7.18	35	<2	235	0.1	3.15	3.93	235.28	0	7.3	192.85	0	0	5	Inolor
RÍO BOGOTÁ	416	246-II-A-087	<5	<0.12	<0.5	<1.5	<0.07	0.05	<3	<0.5	5.5	0.5	<6	<4	<1	189	<1.5	<1	15	<10	0	0	1	19.3	-6.08	21.6	N.D	ND	1.42	1	4.125	<0.2	2.26	<2	29	0.008	0.14	1.29	4.5997	0	0.4	3.7375	0	0	2.5	Inolor	
	467	246-II-A-135	<5	<0.12	1.7	<1.5	<0.07	0.14	<3	<0.5	<5	0.53	<6	<4	<1	121	<1.5	<1	77	<10	10	10	3	17.9	-5.1	51.4	N.D	ND	3.55	3	4.125	<0.2	5.9	2.26	<2	67	0.027	0.6	1.87	22.798	0	4.8	18.687	63	160	3.3	Inolor
	417	246-II-A-190	<5	<0.12	<0.5	<1.5	<0.07	0.37	<3	<0.5	8.7	0.66	<6	<4	<1	165	<1.5	<1	751	19	10	5	17	21.1	-3.83	201	N.D	1.4833	11.4	4	ND	14	6.52	17.3	23.8	21	0.034	2.49	3	70.220	0	6.5	57.557	0	0	1.67	Algo
AGRICULTURA	458	227-I-D-068	<5	<0.12	<0.5	<1.5	<0.07	0.13	<3	<0.5	<5	0.11	<6	<4	<1	198	<1.5	<1	43	<10	40	40	4	18.1	2.1	144.2	N.D	0.443	<0.2	1	4.125	1.28	6.7	1.82	3.04	187	0.027	2	2.26	92.289	0	22	75.647	0	0	6.31	Ligera
	421	227-II-B-181	<5	<0.12	0.8	<1.5	<0.07	0.44	<3	<0.5	<5	0.32	<6	<4	<1	155	<1.5	2.3	99	<10	90	70	18	17.2	-2.2	411	N.D	ND	10.7	12	2.0625	2.95	7.2	71	3.82	250	N.D	3.48	1.77	264.92	0	14	217.14	0	15	2.73	Inolor
	419	227-II-C-011	<5	<0.12	<0.5	<1.5	<0.07	0.09	<3	<0.5	<5	0.61	<6	<4	<1	453	<1.5	<1	18	<10	20	20	4	20.2	-2.75	299	N.D	3.99	<0.2	1	4.125	<0.2	7.1	3.36	<2	269	0.075	3.34	2.8	202.27	0	55	165.79	0	0	6.09	Inolor
	418	227-II-D-605	<5	<0.12	<0.5	<1.5	<0.07	0.12	<3	<0.5	<5	0.29	<6	<4	<1	142	<1.5	1.8	80	<10	50	30	20	19.7	-1.1	171.2	N.D	0.93	<0.2	4	2.0625	3.5	7.1	1.78	<2	91	0.005	1.67	2.14	114.45	0	28	93.811	0	0	1.7	Azufr
	420	227-IV-A-264	<5	0.21	<0.5	<1.5	<0.07	1.5	<3	<0.5	<5	0.52	<6	<4	<1	176	<1.5	<1	60	17	40	40	4	25.8	-3.0	398	N.D	3.21	51.5	1	4.125	3.6	6.9	62.7	<2	206	0.036	1.78	8.3	136.79	0	4.2	112.12	0	3.1	2.94	Ligera
INDUSTRIA	422	09-0011	<5	<0.12	<0.5	<1.5	<0.07	0.33	<3	<0.5	<5	0.77	20.876	<4	<1	140	<1.5	4.6	20	<10	160	160	43	17.6	-2.4	307	N.D	3.442	<0.2	120	2.0625	<2.9	7.6	50	4.88	215	0.045	1.22	3	202.27	0	3.1	165.79	0	60	7.78	A
	424	08-0007	<5	<0.12	<0.5	<1.5	<0.07	0.41	<3	<0.5	<5	0.94	<6	<4	<1	136	<1.5	1.8	26	<10	100	100	4	24.6	-1.89	1132	N.D	10.615	83.4	10	2.0625	2.9	7.41	246	5.15	687	0.028	3.01	4.12	474	0	7.1	389	0	8.7	2.92	Azufr
	425	08-0012	<5	0.17	<0.5	<1.5	<0.07	0.29	3.6	<0.5	<5	0.61	<6	<4	<1	111	<1.5	<1	101	<10	200	200	17	20.2	-2.75	349	N.D	2.99	24.5	1	4.125	13.6	7.2	6													

The comparisons of the water quality test results at each well with the allowable water quality standards for raw water usable for agriculture (Phase 1)

	POZO No.	As	Cd	Cr Total	F	Pb	Ni	Se	Be	Cu	Mn	Mo	Al total	Fe TOTAL	pH Unidades -	Zn TOTAL
VILLAPINZON	209-IV-A-004	0.0000	0.0008	0.0000	0.0333	0.0000	0.0000	0.0000	0.0000	0.0023	0.0213	0.0000	0.0000	0.420	5.4	0.350
	10-0015	0.0000	0.0000	0.0000	0.1680	0.0000	0.0000	0.0000	0.0000	0.0000	0.0427	0.0000	0.0000	0.055	7.03	0.020
	209-B-D-054	0.0000	0.0000	0.0000	0.0392	0.0000	0.0053	0.0000	0.0000	0.0000	0.0300	0.0000	0.0000	2.048	5.7	0.039
BARANDILLAS	209-B-D-093	0.0000	0.0015	0.0019	0.0735	0.0117	0.0000	0.0000	0.0000	0.0000	0.0323	0.0000	0.0000	0.383	5.9	0.325
	209-III-C-032	0.0000	0.0013	0.0022	0.1010	0.0053	0.0014	0.0000	0.0000	0.0043	0.0700	0.0000	0.0000	4.485	6.3	0.163
	209-III-C-077	0.0000	0.0000	0.0000	0.0435	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.0000	0.0000	12.402	5.9	0.120
	209-III-C-013	0.0000	0.0030	0.0018	0.0835	0.0000	0.0000	0.0083	0.0000	0.0000	0.0900	0.0000	0.4500	0.073	7.3	0.105
	209-III-C-095	0.0000	0.0000	0.0021	0.0445	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.0000	0.0000	0.730	7.2	0.255
	209-III-C-069	0.0000	0.0010	0.0055	0.0917	0.0000	0.0000	0.0000	0.0000	0.0012	0.2100	0.0000	0.0000	13.880	6.3	0.113
	209-III-D-077	0.0000	0.0000	0.0000	0.0000	0.0036	0.0000	0.0000	0.0000	0.0000	0.0442	0.0000	0.0000	1.058	6.9	0.060
JUAN AMARILLO	209-III-D-49	0.0000	0.0000	0.0000	0.2840	0.0000	0.0000	0.0000	0.0000	0.0000	0.0900	0.0000	0.0000	0.050	7.1	0.230
	227-IV-B-445	0.0000	0.0000	0.0020	0.0361	0.0000	0.0000	0.0000	0.0000	0.0031	0.0800	0.0000	0.0000	3.613	6.29	1.807
	10-0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0058	0.0000	0.0000	0.0380	0.0000	0.0000	1.938	6.0	0.087
	11-0106	0.0000	0.0000	0.0030	0.0641	0.0000	0.0000	0.0058	0.0000	0.0038	0.0400	0.0000	1.0250	6.160	7.16	0.340
	227-IV-B-361	0.0000	0.0000	0.0027	0.0629	0.0000	0.0000	0.0000	0.0000	0.0000	0.0547	0.0000	0.0000	5.330	7.57	0.310
	11-0138	0.0000	0.0000	0.0027	0.0660	0.0000	0.0000	0.0000	0.0000	0.0089	0.1100	0.0000	0.0000	4.390	6.47	0.318
	11-0026	0.0000	0.0000	0.0021	0.1980	0.0000	0.0000	0.0000	0.0000	0.0037	0.0700	0.0000	0.0000	1.683	6.09	0.263
TUNUELITO RIVER	10-0026	0.0000	0.0000	0.0055	0.0445	0.0000	0.0000	0.0000	0.0000	0.0000	0.0500	0.0000	0.0000	4.518	7.56	0.322
	227-IV-C-044	0.0000	0.0005	0.0041	0.1780	0.0000	0.0000	0.0000	0.0000	0.0013	0.0400	0.0000	0.0000	5.088	6.97	0.212
	227-IV-C-51	0.0000	0.0000	0.0000	0.2145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0454	0.0000	0.0000	3.273	7.53	0.205
	227-IV-C-56	0.0000	0.0000	0.0023	0.1980	0.0000	0.0000	0.0000	0.0000	0.0156	0.0400	0.0000	0.0000	3.052	7.36	0.172
	227-IV-C-80	0.0000	0.0000	0.0032	0.1320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0400	0.0000	0.0000	3.228	6.75	0.270
	07-0022	0.0000	0.0000	0.0020	0.1695	0.0000	0.0000	0.0000	0.0000	0.0000	0.0400	0.0000	0.0000	3.193	7.3	0.225
	07-0020	0.0000	0.0000	0.0000	0.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0114	0.0000	0.0000	6.338	6.78	0.293
	17-0001	0.0000	0.0000	0.0037	0.2400	0.0000	0.0000	0.0000	0.0000	0.0017	0.1500	0.0000	0.0000	10.345	6.29	0.142
	07-0005	0.0000	0.0000	0.0000	0.2160	0.0000	0.0000	0.0058	0.0000	0.0000	0.0500	0.0000	0.0000	6.312	6.14	0.405
	19-0009	0.0000	0.0000	0.0000	0.0755	0.0000	0.0000	0.0000	0.0000	0.0000	0.1100	0.0000	0.0000	6.244	6.72	0.085
BOGOTA RIVER	246-B-A-104	0.0000	0.0011	0.0000	0.1685	0.0000	0.0000	0.0000	0.0000	0.0011	0.1100	0.0000	0.0000	1.950	6.41	0.233
	246-B-A-143	0.0000	0.0034	0.0000	0.3320	0.0000	0.0000	0.0058	0.0000	0.0000	0.0600	0.0000	0.0000	1.550	5.05	0.293
	246-B-A-177	0.0000	0.0000	0.0062	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0400	0.0000	0.0000	0.068	6.52	0.095
	246-B-A-135	0.0000	0.0073	0.0000	0.1140	0.0000	0.0000	0.0000	0.0000	0.0084	0.1000	0.0000	0.0000	8.135	5.33	0.183
	246-B-A-087	0.0000	0.0000	0.0000	0.0399	0.0000	0.0057	0.0000	0.0000	0.0000	0.0277	0.0000	0.0000	0.225	3.74	0.097
AGRICULTURAL	246-B-A-190	0.0000	0.0000	0.0000	0.3000	0.0000	0.0083	0.0000	0.0000	0.0000	0.6900	0.0183	0.0000	0.027	5.38	0.145
	227-B-D-605	0.0000	0.0000	0.0055	0.1040	0.0000	0.0000	0.0000	0.0000	0.0700	0.0000	0.0000	0.0000	2.898	6.19	0.340
	227-B-C-11	0.0000	0.0000	0.0000	0.0592	0.0000	0.0000	0.0000	0.0000	0.0163	0.0000	0.0000	0.0000	0.688	6.64	0.303
	227-I-D-068	0.0000	0.0000	0.0016	0.0811	0.0000	0.0000	0.0000	0.0000	0.0000	0.0400	0.0000	0.0000	2.870	6.10	0.298
	227-IV-A-264	0.0000	0.0000	0.0029	1.3800	0.0000	0.0000	0.0000	0.0000	0.0041	0.0690	0.0121	0.0000	2.968	6.98	1.455
INDUSTRY AREA	227-B-B-181	0.0000	0.0000	0.0000	0.4050	0.0000	0.0000	0.0000	0.0000	0.0045	0.0500	0.0000	0.0000	4.355	6.66	0.367
	09-011	0.0000	0.0000	0.0049	0.3060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0500	0.0000	0.0000	0.313	7.72	0.070
	09-0021	0.0000	0.0000	0.0000	0.1560	0.0000	0.0000	0.0000	0.0000	0.0000	0.0400	0.0000	0.0000	3.233	6.60	0.370
	01-0011	0.0000	0.0000	0.0023	0.0560	0.0000	0.0000	0.0045	0.0000	0.0018	0.1200	0.0000	0.0000	4.453	6.6	0.175
	08-0012	0.0000	0.0007	0.0021	0.1940	0.0000	0.0000	0.0000	0.0000	0.0016	0.0900	0.0000	0.0000	13.106	6.72	0.060
GUADALUPE	228-I-A-510	0.0000	0.0015	0.0000	0.2300	0.0000	0.0000	0.0000	0.0000	0.0016	0.1300	0.0000	0.0000	7.830	6.40	0.085
	227-IV-A-349	0.0000	0.0000	0.0020	0.0614	0.0000	0.0000	0.0000	0.0000	0.0067	0.1600	0.0000	0.0000	6.605	6.9	0.058
	227-IV-C-011	0.0000	0.0000	0.0018	0.1910	0.0000	0.0000	0.0000	0.0000	0.0044	0.7900	0.0000	0.0000	1.540	6.16	0.050
	227-B-D-1112	0.0000	0.0000	0.0027	0.0308	0.0000	0.0000	0.0083	0.0000	0.0038	0.0366	0.0000	0.0000	0.213	7.9	0.057
	227-B-D-016	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0103	0.0900	0.0000	0.0000	1.800	6.67	0.070
	227-B-D-670	0.0000	0.0000	0.0000	0.0399	0.0000	0.0000	0.0000	0.0000	0.0060	0.0400	0.0000	0.0000	3.088	7.04	0.020
	227-B-C-576	0.0000	0.0000	0.0025	0.1030	0.0000	0.0000	0.0000	0.0000	0.0140	0.0541	0.0000	0.0000	1.313	7.2	0.150
	227-B-B-028	0.0000	0.0000	0.0023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0102	0.0150	0.0000	0.0000	0.373	6.8	0.145
	227-IV-A-063	0.0000	0.0000	0.0000	0.0940	0.0000	0.0000	0.0083	0.0000	0.0036	0.0172	0.0000	0.0000	0.515	6.77	0.105
	227-B-C-094	0.0000	0.0009	0.0000	0.0553	0.0041	0.0000	0.0000	0.0000	0.0028	0.0133	0.0000	0.0000	0.253	4.87	0.748
	227-IV-A-102	0.0000	0.0082	0.0036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0041	0.2100	0.0000	0.0000	0.593	4.84	0.250
	227-IV-B-307	0.0000	0.0000	0.0027	0.0791	0.0000	0.0000	0.0000	0.0000	0.0059	0.0477	0.0000	0.0000	8.780	7.15	0.180
	227-IV-A-441	0.0000	0.0000	0.0042	0.5840	0.0000	0.1436	0.0000	0.0000	0.0033	0.0600	0.0000	0.0000	2.120	6.22	0.840
227-IV-B-096	0.0000	0.0000	0.0028	0.3770	0.0000	0.0000	0.0000	0.0000	0.0017	0.1000	0.0000	0.0000	1.910	6.90	0.082	
227-IV-B-456	0.0000	0.0000	0.0039	0.0510	0.0000	0.0000	0.0045	0.0000	0.0030	0.1300	0.0000	0.0000	3.243	6.70	0.048	
228-I-A-518	0.0000	0.0000	0.0027	0.0669	0.0000	0.0000	0.0060	0.0000	0.0030	0.1300	0.0000	0.0000	7.768	6.37	0.158	
227-B-C-477	0.0000	0.0000	0.0000	0.2070	0.0000	0.0000	0.0000	0.0000	0.0049	0.1000	0.0000	0.0000	1.075	6.68	0.038	
228-I-C-247	0.0000	0.0000	0.0022	0.0934	0.0000	0.0000	0.0000	0.0000	0.0051	0.1000	0.0000	0.0000	3.075	7.07	0.075	
228-I-C-041	0.0000	0.0000	0.0021	0.1300	0.0000	0.0000	0.0000	0.0000	0.0028	0.0500	0.0000	0.2500	1.915			

The comparisons of the water quality test results at each well with the allowable water quality standards for raw water usable for agriculture (Phase 2)

	POZO No.	As mg/L	Cd mg/L	Cr Total mg/L	F mg/L	Pb mg/L	Ni mg/L	Se mg/L	Be mg/L	Cu mg/L	Mn mg/L	Mo mg/L	Al total mg/L	Fe TOTAL mg/L	pH Unidades	Zn TOTAL mg/L
VILLAPINZON	10-0015	0.0000	0.0000	0.0000	0.1130	0.0000	0.0000	0.0000	0.0000	0.0000	0.1130	0.0000	0.0000	6.500	7.28	0.036
	209-II-D-054	0.0000	0.0000	0.0019	0.0463	0.0000	0.0060	0.0000	0.0000	0.0021	0.2940	0.0000	0.0000	5.700	5.70	0.037
	209-II-D-093	0.0000	0.0000	0.0000	0.0667	0.0000	0.0052	0.0000	0.0000	0.0000	0.0210	0.0000	0.0000	0.000	5.90	0.088
BARANDIL LAS RIVER	209-III-C-032	0.0000	0.0000	0.0000	0.0633	0.0000	0.0000	0.0000	0.0000	0.0000	0.1310	0.0000	0.0000	4.400	6.10	0.017
	209-III-C-013	0.0000	0.0000	0.0030	0.0907	0.0000	0.0000	0.0000	0.0000	0.0000	0.1700	0.0000	0.0000	0.700	6.91	0.031
	209-III-C-095	0.0000	0.0000	0.0018	0.0507	0.0036	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	7.70	0.007
	209-III-C-069	0.0000	0.0000	0.0056	0.0659	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.300	6.30	0.005
	209-III-D-077	0.0000	0.0000	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0780	0.0000	0.0000	0.500	6.40	0.077
ITIAN AMARILLO	209-III-D-49	0.0000	0.0000	0.0000	0.3775	0.0000	0.0000	0.0000	0.0000	0.0015	0.1210	0.0000	0.0000	4.300	6.60	0.494
	227-IV-B-445	0.0000	0.0000	0.0000	0.4330	0.0000	0.0000	0.0000	0.0000	0.0000	0.1010	0.0000	0.0000	3.100	7.00	0.067
	10-0020	0.0000	0.0018	0.0000	0.0529	0.0000	0.0078	0.0000	0.0000	0.0000	0.0820	0.0000	0.0000	0.000	5.19	0.083
	11-0106	0.0000	0.0000	0.0021	0.0798	0.0000	0.0000	0.0000	0.0000	0.0000	0.0330	0.0000	0.0000	0.700	8.20	0.069
	227-IV-B-361	0.0000	0.0000	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0220	0.0000	0.0000	0.000	7.93	0.014
TUNJUELITO RIVER	11-0138	0.0000	0.0000	0.0000	0.1420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0900	0.0000	0.0000	3.100	7.10	0.596
	11-0026	0.0000	0.0000	0.0000	0.3790	0.0000	0.0000	0.0000	0.0000	0.0000	0.1510	0.0000	0.0000	2.100	6.94	0.015
	10-0026	0.0000	0.0000	0.0000	0.2195	0.0000	0.0000	0.0000	0.0000	0.0000	0.0350	0.0000	0.0000	0.300	7.60	0.355
	227-IV-C-044	0.0000	0.0000	0.0000	0.0947	0.0000	0.0000	0.0000	0.0000	0.0000	0.0830	0.0000	0.0000	1.800	6.28	0.235
	227-IV-C-51	0.0000	0.0000	0.0000	0.2160	0.0000	0.0000	0.0000	0.0000	0.0072	0.0350	0.0000	0.0000	1.400	6.92	0.041
	227-IV-C-56	0.0000	0.0000	0.0000	0.2820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0840	0.0000	0.0000	1.700	7.49	0.007
	227-IV-C-80	0.0000	0.0000	0.0025	0.1420	0.0000	0.0000	0.0000	0.0000	0.0000	0.0670	0.0000	0.0000	1.900	6.40	0.015
	07-0027	0.0000	0.0000	0.0000	0.1710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0800	0.0000	0.0000	2.100	6.81	0.024
	07-0070	0.0000	0.0000	0.0000	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0370	0.0000	0.0000	0.900	6.75	0.071
	17-0001	0.0000	0.0000	0.0000	0.2370	0.0000	0.0000	0.0000	0.0000	0.0000	0.1470	0.0000	0.0000	10.700	6.77	0.053
	07-0005	0.0000	0.0000	0.0000	0.1700	0.0000	0.0000	0.0000	0.0000	0.0000	0.0980	0.0000	0.0000	6.000	6.36	0.017
BOGOTA RIVER	19-0009	0.0000	0.0000	0.0000	0.0870	0.0000	0.0000	0.0000	0.0000	0.0000	0.1700	0.0000	0.0000	5.000	6.07	0.073
	246-II-A-104	0.0000	0.0000	0.0000	0.1455	0.0000	0.0000	0.0000	0.0000	0.0000	0.1090	0.0000	0.0000	2.200	6.67	0.001
	246-II-A-143	0.0000	0.0000	0.0000	0.2080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	0.400	5.87	0.007
	246-II-A-177	0.0000	0.0000	0.0015	0.0584	0.0000	0.0000	0.0000	0.0000	0.0000	0.0580	0.0000	0.0000	0.000	6.38	0.020
	246-II-A-135	0.0000	0.0026	0.0000	0.0736	0.0000	0.0000	0.0000	0.0000	0.0000	0.1900	0.0000	0.0000	0.200	6.04	0.038
AGRICULTURAL	246-II-A-190	0.0000	0.0000	0.0000	0.3010	0.0000	0.0000	0.0000	0.0000	0.0000	0.6010	0.0000	0.0000	14.300	5.91	0.039
	227-II-D-605	0.0000	0.0000	0.0000	0.1780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.0000	0.0000	3.400	6.78	0.052
	227-II-C-11	0.0000	0.0000	0.0000	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0060	0.0000	0.0000	0.000	7.25	0.008
INDUSTRY AREA	227-I-D-068	0.0000	0.0000	0.0000	0.0992	0.0000	0.0000	0.0000	0.0000	0.0000	0.0770	0.0000	0.0000	1.200	6.40	0.100
	227-IV-A-764	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	6.68	0.074
	227-IV-B-181	0.0000	0.0000	0.0000	0.5320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.900	7.00	0.046
	09-0011	0.0000	0.0000	0.0043	0.3370	0.0000	0.0056	0.0000	0.0000	0.0000	0.0770	0.0000	0.0000	0.400	7.11	0.137
	09-0021	0.0000	0.0000	0.0000	0.2520	0.0000	0.0000	0.0000	0.0000	0.0000	0.0580	0.0000	0.0000	6.300	6.47	0.039
GUADALUPE	01-0011	0.0000	0.0000	0.0000	0.0828	0.0000	0.0000	0.0000	0.0000	0.0000	0.1710	0.0000	0.0000	6.000	6.66	0.039
	08-0017	0.0000	0.0000	0.0000	0.3360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0800	0.0000	0.0000	11.500	6.43	0.036
	228-I-A-510	0.0000	0.0000	0.0037	0.1290	0.0000	0.0000	0.0000	0.0000	0.0000	0.0810	0.0000	0.0000	5.600	6.21	0.108
	227-IV-A-349	0.0000	0.0000	0.0000	0.1560	0.0000	0.0000	0.0000	0.0000	0.0000	0.1500	0.0000	0.0000	6.000	6.01	0.008
	227-IV-C-011	0.0000	0.0000	0.0000	0.3450	0.0000	0.0000	0.0000	0.0000	0.0000	0.8030	0.0000	0.0000	1.400	6.56	0.019
	227-II-D-1112	0.0000	0.0000	0.0000	0.0419	0.0000	0.0000	0.0000	0.0000	0.0020	0.0200	0.0000	0.0000	0.000	5.30	0.028
	227-II-B-016	0.0000	0.0000	0.0000	0.1360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.0000	0.0000	3.800	6.67	0.018
	227-II-D-670	0.0000	0.0000	0.0000	0.0966	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	7.00	0.038
	227-II-C-576	0.0000	0.0019	0.0000	0.1410	0.0000	0.0000	0.0000	0.0000	0.0034	0.0660	0.0000	0.0000	0.000	5.70	0.076
	227-II-B-078	0.0000	0.0000	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0110	0.0000	0.0000	0.000	5.70	0.057
	227-IV-A-063	0.0000	0.0000	0.0000	0.1570	0.0000	0.0000	0.0000	0.0000	0.0000	0.0100	0.0000	0.0000	0.000	7.16	0.006
QUATERNARY	227-IV-C-094	0.0000	0.0000	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0080	0.0000	0.0000	0.000	5.17	0.021
	227-IV-A-107	0.0000	0.0067	0.0040	0.4875	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000	4.69	0.191
	227-IV-B-307	0.0000	0.0000	0.0000	0.0460	0.0000	0.0000	0.0000	0.0000	0.0000	0.0390	0.0000	0.0000	0.000	7.07	0.073
	227-IV-A-441	0.0000	0.0000	0.0000	0.6780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0990	0.0000	0.0000	1.100	6.44	0.017
	227-IV-B-096	0.0000	0.0000	0.0000	0.5840	0.0000	0.0000	0.0000	0.0000	0.0000	0.1090	0.0000	0.0000	0.500	6.55	0.025
	227-IV-B-456	0.0000	0.0000	0.0033	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.1200	0.0000	0.0000	3.800	6.80	0.047
	228-III	0.0000	0.0000	0.0000	0.0968	0.0000	0.0000	0.0000	0.0000	0.0000	0.1300	0.0000	0.0000	3.600	6.53	0.032
	227-II-C-477	0.0000	0.0000	0.0000	0.2940	0.0000	0.0000	0.0000	0.0000	0.0000	0.0900	0.0000	0.0000	0.400	7.20	0.028
	228-I-C-247	0.0000	0.0000	0.0000	0.1500	0.0000	0.0050	0.0000	0.0000	0.0000	0.1100	0.0000	0.0000	3.500	7.27	0.033
	228-I-C-041	0.0000	0.0000	0.0015	0.1845	0.0000	0.0000	0.0000	0.0000	0.0000	0.0640	0.0000	0.0000	0.200	6.15	0.015
	227-II-D-749	0.0000	0.0000	0.0000	0.0603	0.0000	0.0000	0.0000	0.0000	0.0000	0.1200	0.0000	0.0000	6.000	6.40	0.050
ISOTOPE	228-I-C-018	0.0000	0.0000	0.0000	0.1410	0.0000	0.0000	0.0000	0.0000	0.0000	0.0900	0.0000	0.0000	0.300	6.73	0.059
	227-II-B-802	0.0000	0.0000	0.0000	0.1285	0.0000</										

The comparisons of the water quality test results at each well with the allowable water quality standards for raw water usable for agriculture (Phase 3)

CLASSIFIED	No. CIC	No. POZO	As µg/L	Cd µg/L	Cr total µg/L	F- mg/L	Pb µg/L	Ni µg/L	Se µg/L	Be µg/L	Cu µg/L	Mn µg/L	Mo µg/L	Aluminio mg/L	Fe mg/L	pH Unidades	Zinc mg/L
VILLAPINZÓN	402	209-II-D-054	<5	<0.5	<1.5	0.06	<3	11	<4	<1.5	4.1	793	<10	N.D	13.5	6.78	0.033
	403	209-II-D-093	<5	1.7	2	0.11	<3	<5	<4	<1.5	<1	31	<10	N.D	<0.2	6.62	0.108
	401	209-IV-A-004	<5	<0.5	<1.5	0.03	<3	<5	<4	<1.5	6.1	20	<10	N.D	<0.2	7.1	0.035
BARANDILLAS	407	209-III-D-036	<5	<0.5	<1.5	0.12	<3	<5	<4	<1.5	<1	61	<10	N.D	8.3	6.753	0.016
	406	209-III-C-013	<5	<0.5	<1.5	0.1	<3	<5	<4	<1.5	2.3	128	<10	N.D	0.44	7.89	0.074
	404	209-III-D-077	<5	<0.5	<1.5	0.04	<3	<5	<4	<1.5	3.5	24	<10	N.D	0.3	6.62	0.017
	408	209-III-D-49	<5	<0.5	<1.5	0.42	<3	<5	<4	<1.5	<1	115	<10	N.D	8.1	7.1	0.024
	405	228-I-C-018	<5	<0.5	<1.5	0.15	<3	<5	<4	<1.5	3	78	<10	N.D	0.42	7.06	0.039
JUAN AMARILLO	469	227-IV-B-361	<5	<0.5	<1.5	0.09	<3	<5	<4	<1.5	2	34	<10	0.011	<0.2	7.9	0.673
	455	227-IV-B-445	<5	<0.5	<1.5	0.44	<3	<5	<4	<1.5	<1	69	<10	N.D	1.56	7.2	0.027
RÍO TUNJUELITO	414	07-0005	<5	<0.5	<1.5	0.24	<3	<5	<4	<1.5	<1	71	<10	N.D	6.3	6.72	0.023
	412	07-0020	<5	<0.5	<1.5	0.13	<3	<5	<4	<1.5	<1	38	<10	N.D	1.63	7.1	0.016
	415	19-0009	<5	<0.5	<1.5	0.12	<3	<5	<4	<1.5	<1	126	<10	N.D	8.2	6.49	N.D
	410	227-IV-C-51	<5	<0.5	<1.5	0.27	<3	<5	<4	<1.5	7.3	36	<10	N.D	1.31	7.5	0.032
	411	227-IV-C-80	<5	<0.5	<1.5	0.16	<3	<5	<4	<1.5	4.7	49	<10	N.D	1.78	7.18	0.1
RÍO BOGOTÁ	416	246-II-A-087	<5	<0.5	<1.5	0.05	<3	5.5	<4	<1.5	<1	15	<10	N.D	<0.2	5.22	0.008
	467	246-II-A-135	<5	1.7	<1.5	0.14	<3	<5	<4	<1.5	<1	77	<10	N.D	<0.2	5.9	0.027
	417	246-II-A-190	<5	<0.5	<1.5	0.37	<3	8.7	<4	<1.5	<1	751	19	N.D	14	6.52	0.034
AGRICULTURA	458	227-I-D-068	<5	<0.5	<1.5	0.13	<3	<5	<4	<1.5	<1	43	<10	N.D	1.28	6.7	0.027
	421	227-II-B-181	<5	0.8	<1.5	0.44	<3	<5	<4	<1.5	2.3	99	<10	N.D	2.95	7.2	N.D
	419	227-II-C-011	<5	<0.5	<1.5	0.09	<3	<5	<4	<1.5	<1	18	<10	N.D	<0.2	7.1	0.075
	418	227-II-D-605	<5	<0.5	<1.5	0.12	<3	<5	<4	<1.5	1.8	80	<10	N.D	3.5	7.1	0.005
	420	227-IV-A-264	<5	<0.5	<1.5	1.5	<3	<5	<4	<1.5	<1	60	17	N.D	3.6	6.9	0.036
INDUSTRIA	422	09-0011	<5	<0.5	<1.5	0.33	<3	<5	<4	<1.5	4.6	20	<10	N.D	2.9	7.6	0.045
	424	08-0007	<5	<0.5	<1.5	0.41	<3	<5	<4	<1.5	1.8	26	<10	N.D	<0.2	7.41	0.028
	425	08-0012	<5	<0.5	<1.5	0.29	3.6	<5	<4	<1.5	<1	101	<10	N.D	13.6	7.2	0.004
	423	09-0021	<5	<0.5	<1.5	0.29	8.5	<5	<4	<1.5	1.8	39	<10	N.D	5.8	6.8	0.016
	426	228-I-A-510	<5	<0.5	1.8	0.18	<3	<5	<4	<1.5	<1	123	<10	N.D	7.45	6.6	0.019
GUADALUPE	454	209-III-B-170	<5	<0.5	<1.5	0.87	<3	<5	<4	<1.5	<1	<3	<10	N.D	<0.2	6.37	0.011
	434	227-II-C-094	<5	<0.5	<1.5	0.09	<3	<5	<4	<1.5	<1	22	<10	N.D	0.37	5.5	0.038
	431	227-II-C-576	<5	2.1	<1.5	0.13	<3	<5	<4	<1.5	3.9	51	<10	N.D	<0.2	5.87	0.087
	429	227-II-D-1112	<5	<0.5	<1.5	0.06	<3	<5	<4	<1.5	6.3	21	<10	N.D	<0.2	5.78	0.025
	430	227-II-D-587	<5	<0.5	<1.5	0.19	<3	<5	<4	<1.5	1.1	82	<10	N.D	<0.2	7.1	
	466	227-II-D-670	<5	<0.5	<1.5	0.09	<3	<5	<4	<1.5	<1	35	<10	N.D	8.3	6.9	0.012
	435	227-IV-A-102	<5	3	8.3	0.03	<3	12	<4	<1.5	9.8	311	<10	N.D	<0.2	5.5	0.294
	427	227-IV-A-349	<5	<0.5	<1.5	0.08	<3	<5	<4	<1.5	5	311	<10	N.D	<0.2	7.21	0.02
	428	227-IV-C-011	<5	<0.5	<1.5	0.36	<3	<5	<4	<1.5	5	932	<10	N.D	1.5	6.5	0.024
	450	228-I-A-515	<5	<0.5	<1.5	0.13	<3	<5	<4	<1.5	2.8	98	<10	N.D	1.7	7.02	0.007
CUATERNARIO	457	16-0003	<5	<0.5	<1.5	0.21	<3	<5	<4	<1.5	<1	82	<10	N.D	9.1	6.51	0.031
	451	209-III-B-083	<5	<0.5	<1.5	7.88	<3	<5	<4	<1.5	2.9	299	<10	N.D	0.34	8.09	0.029
	448	209-III-B-172	<5	<0.5	<1.5	0.37	<3	<5	<4	<1.5	<1	194	<10	N.D	6.1	7.15	0.043
	445	227-II-B-252	<5	<0.5	<1.5	0.09	<3	<5	<4	<1.5	2.1	107	<10	N.D	3.6	7.13	0.022
	447	227-II-B-720	<5	<0.5	<1.5	0.28	<3	<5	<4	<1.5	1.7	38	<10	N.D	1.79	6.63	0.012
	446	227-II-C-007	<5	<0.5	<1.5	0.22	<3	<5	<4	<1.5	<1	98	<10	0.008	2.5	7.35	0.264
	438	227-II-C-477	<5	<0.5	<1.5	0.31	<3	<5	<4	<1.5	<1	90	<10	N.D	0.52	7.25	
	444	227-II-C-972	<5	<0.5	<1.5	0.55	<3	<5	<4	<1.5	<1	98	<10	N.D	0.65	7.87	0.009
	453	227-II-D-1008	<5	<0.5	<1.5	0.11	<3	<5	<4	<1.5	3.3	43	<10	N.D	<0.2	8.18	0.024
	437	227-IV-A-441	<5	<0.5	<1.5	0.62	<3	<5	<4	<1.5	<1	87	<10	N.D	2.35	6.8	0.008
	456	227-IV-A-442	<5	<0.5	<1.5	0.84	<3	<5	<4	<1.5	<1	26	<10	N.D	1	6.98	0.034
	441	227-IV-A-X6	<5	<0.5	<1.5	0.35	<3	<5	<4	<1.5	<1	64	<10	N.D	<0.2	7.1	0.005
	471	227-IV-B-096	<5	<0.5	<1.5	0.54	<3	<5	<4	<1.5	<1	107	<10	N.D	1.08	6.9	0.007
	436	227-IV-B-307	<5	<0.5	<1.5	0.07	<3	<5	<4	<1.5	<1	38	<10	N.D	0.35	7.37	0.036
	409	227-IV-B-576	<5	<0.5	<1.5	0.58	<3	<5	<4	<1.5	1.8	45	<10	N.D	<0.2	7	0.014
	470	227-IV-B-577	<5	<0.5	<1.5	0.18	<3	<5	<4	<1.5	1.5	88	<10	N.D	1.26	7.35	0.007
	449	228-I-A-512-APO	<5	<0.5	<1.5	0.15	<3	<5	<4	<1.5	<1	291	<10	N.D	10.7	7.22	0.019
	440	228-I-C-041	<5	<0.5	2.3	0.14	<3	<5	<4	<1.5	<1	109	<10	N.D	2.22	6.67	0.019
	452	228-I-C-178	<5	<0.5	<1.5	0.1	<3	<5	<4	<1.5	3.1	83	<10	N.D	5.05	6.8	0.026
	439	228-I-C-247	<5	<0.5	<1.5	0.1	<3	<5	<4	<1.5	<1	194	<10	N.D	9.3	6.98	0.028
443	228-I-D-003	<5	<0.5	<1.5	0.27	<3	<5	<4	<1.5	<1	213	<10	N.D	13.7	7.16	0.008	
ISOTOPOS	432	227-II-B-028	<5	<0.5	<1.5	0.06	<3	<5	<4	<1.5	5.7	9.1	<10	N.D	<0.2	5.84	0.036
	442	227-II-D-802	<5	<0.5	<1.5	0.11	<3	<5	<4	<1.5	<1	80	<10	N.D	<0.2	7.44	0.02
	433	227-IV-A-063	<5	<0.5	<1.5	0.11	<3	<5	<4	<1.5	<1	23	<10	N.D	<0.2	7.4	0.025
EAAB	468	E-1 EAAB	<5	<0.5	<1.5	0.19	<3	<5	<4	<1.5	3.9	27	<10	N.D	<0.2	8.75	0.033
	460	E-2 EAAB	<5	<0.5	<1.5	0.14	<3	<5	<4	<1.5	<1	203	<10	N.D	<0.2	7.9	0.022
	459	Vitelma 1-EAAB	<5	<0.5	<1.5	0.33	<3	<5	<4	<1.5	<1	422	<10	N.D	0.68	6.96	N.D
JICA	461	JICA-1	<5	<0.5	<1.5	0.2	<3	<5	<4	<1.5	<1	20	<10	N.D	1.94	7.87	
	462	JICA-2	<5	<0.5	<1.5	0.11	<3	<5	<4	<1.5	<1	110	<10	N.D	0.75	7.35	0.024
	463	JICA-3	<5	<0.5	2.7	0.06	<3	<5	<4	<1.5	<1	107	16	N.D	0.34	7.2	
	464	JICA-5	<5	<0.5	<1.5	0.18	<3	<5	<4	<1.5	<1	91	<10	N.D	1.72	7.25	0.044
	465	JICA-6	<5	<0.5	1.7	0.03	<3	5.9	<4	<1.5	<1	364	<10	N.D	6	6.3	0.044

Wells exceeded the allowable water quality standard for raw water for agriculture

Blue letter wells in actual use for agriculture

The comparisons of the water quality test results at each well with the allowable water quality standards for raw water usable for stock-raising (Phase 1)

CLASSIFIED	No. CIC	No. POZO	As µg/L	B mg/L	Cd µg/L	Cr total µg/L	Pb µg/L	Hg µg/L	NO3-N mg/L	NO2-N µg/L	Cu µg/L	Alumini o mg/L	Cl mg/L	Zinc mg/L
VILLAPINZÓN	402	209-II-D	<5	<0.12	<0.5	<1.5	<3	<0.5	0.19	<6	4.1	N.D	0.71	0.033
	403	209-II-D	<5	<0.12	1.7	2	<3	<0.5	1.04	<6	<1	N.D	0.71	0.108
	401	209-IV-	<5	<0.12	<0.5	<1.5	<3	<0.5	3.37	25.1461	6.1	N.D	6.75	0.035
BARANDILLAS	407		<5	<0.12	<0.5	<1.5	<3	<0.5	0.46	<6	<1	N.D	2.49	0.016
	406	209-III-C	<5	<0.12	<0.5	1.9	<3	<0.5	0.23	<6	2.3	N.D	360	0.074
	404	209-III-D	<5	<0.12	<0.5	<1.5	<3	<0.5	0.12	<6	3.5	N.D	<0.2	0.017
	408	209-III-D	<5	<0.12	<0.5	<1.5	<3	<0.5	0.86	<6	<1	N.D	<0.2	0.024
	405	228-I-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.36	<6	3	N.D	3.55	0.039
JUAN AMARILLO	469	227-IV-B	<5	<0.12	<0.5	<1.5	<3	<0.5	0.42	<6	2	0.011	21.3	0.673
	455	227-IV-B	<5	0.28	<0.5	<1.5	<3	<0.5	0.44	<6	<1	N.D	40.5	0.027
RÍO TUNJUELITO	414	07-0005	<5	<0.12	<0.5	<1.5	<3	<0.5	0.36	<6	<1	N.D	4.97	0.023
	412	07-0020	<5	0.13	<0.5	<1.5	<3	<0.5	0.38	<6	<1	N.D	<0.2	0.016
	415	19-0009	<5	<0.12	<0.5	<1.5	<3	<0.5	<0.1	<6	<1	N.D	16	N.D
	410	227-IV-C	<5	<0.12	<0.5	<1.5	<3	<0.5	0.33	<6	7.3	N.D	12.1	0.032
	411	227-IV-C	<5	<0.12	<0.5	<1.5	<3	<0.5	0.28	<6	4.7	N.D	9.94	0.1
RÍO BOGOTÁ	416	246-II-A-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.5	<6	<1	N.D	1.42	0.008
	467	246-II-A-	<5	<0.12	1.7	<1.5	<3	<0.5	0.53	<6	<1	N.D	3.55	0.027
	417	246-II-A-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.66	<6	<1	N.D	11.4	0.034
AGRICULTURA	458	227-I-D-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.11	<6	<1	N.D	<0.2	0.027
	421	227-II-B-	<5	<0.12	0.8	<1.5	<3	<0.5	0.32	<6	2.3	N.D	10.7	N.D
	419	227-II-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.61	<6	<1	N.D	<0.2	0.075
	418	227-II-D-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.29	<6	1.8	N.D	<0.2	0.005
	420	227-IV-	<5	0.21	<0.5	<1.5	<3	<0.5	0.52	<6	<1	N.D	51.5	0.036
INDUSTRIA	422	09-0011	<5	<0.12	<0.5	<1.5	<3	<0.5	0.77	20.876	4.6	N.D	<0.2	0.045
	424	08-0007	<5	<0.12	<0.5	<1.5	<3	<0.5	0.94	<6	1.8	N.D	83.4	0.028
	425	08-0012	<5	0.17	<0.5	<1.5	3.6	<0.5	0.61	<6	<1	N.D	24.5	0.004
	423	09-0021	<5	0.25	<0.5	<1.5	8.5	<0.5	0.48	<6	1.8	N.D	<0.2	0.016
	426	228-I-A-	<5	<0.12	<0.5	1.8	<3	<0.5	1.92	<6	<1	N.D	39.1	0.019
GUADALUPE	454	209-III-B	<5	<0.12	<0.5	<1.5	<3	<0.5	0.22	<6	<1	N.D	2.84	0.011
	434	227-II-C-	<5	0.13	<0.5	<1.5	<3	<0.5	0.2	<6	<1	N.D	0.71	0.038
	431	227-II-C-	<5	<0.12	2.1	<1.5	<3	<0.5	<0.1	<6	3.9	N.D	<0.2	0.087
	429	227-II-D-	<5	0.2	<0.5	<1.5	<3	<0.5	<0.1	<6	6.3	N.D	<0.2	0.025
	430	227-II-D-	<5	0.18	<0.5	<1.5	<3	<0.5	<0.1	<6	1.1	N.D	<0.2	
	466	227-II-D-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.33	<6	<1	N.D	53.1	0.012
	435	227-IV-	<5	0.2	3	8.3	<3	<0.5	7.08	<6	9.8	N.D	87	0.294
	427	227-IV-	<5	0.19	<0.5	<1.5	<3	<0.5	0.15	8	5	N.D	0.71	0.02
	428	227-IV-C	<5	0.16	<0.5	<1.5	<3	<0.5	1.84	<6	5	N.D	26.3	0.024
	450		<5	0.2	<0.5	<1.5	<3	<0.5	0.53	<6	2.8	N.D	1.42	0.007
CUATERNARIO	457	16-0003	<5	0.18	<0.5	<1.5	<3	<0.5	1.19	<6	<1	N.D	28.4	0.031
	451	209-III-B	<5	0.16	<0.5	<1.5	<3	<0.5	0.97	13	2.9	N.D	1.78	0.029
	448	209-III-B	<5	<0.12	<0.5	<1.5	<3	<0.5	0.28	<6	<1	N.D	17	0.043
	445	227-II-B-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.45	<6	2.1	N.D	1.78	0.022
	447	227-II-B-	<5	<0.12	<0.5	<1.5	<3	<0.5	<0.1	<6	1.7	N.D	153	0.012
	446	227-II-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.37	<6	<1	0.008	13.5	0.264
	438	227-II-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.21	<6	<1	N.D	39.1	
	444	227-II-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.18	<6	<1	N.D	1.42	0.009
	453	227-II-D-	<5	0.16	<0.5	<1.5	<3	<0.5	0.11	<6	3.3	N.D	25.9	0.024
	437	227-IV-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.2	<6	<1	N.D	27	0.008
	456	227-IV-	<5	0.27	<0.5	<1.5	<3	<0.5	<0.1	<6	<1	N.D	22	0.034
	441	227-IV-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.15	<6	<1	N.D	43.3	0.005
	471	227-IV-B	<5	0.17	<0.5	<1.5	<3	<0.5	0.19	<6	<1	N.D	54.6	0.007
	436	227-IV-B	<5	0.22	<0.5	<1.5	<3	<0.5	1.84	<6	<1	N.D	50.4	0.036
	409	227-IV-B	<5	<0.12	<0.5	<1.5	<3	<0.5	<0.1	<6	1.8	N.D	29.8	0.014
	470	227-IV-B	<5	<0.12	<0.5	<1.5	<3	<0.5	0.4	19	1.5	N.D	49.7	0.007
	449	228-I-A-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.54	<6	<1	N.D	88.9	0.019
440	228-I-C-	<5	<0.12	<0.5	2.3	<3	<0.5	0.15	<6	<1	N.D	1.78	0.019	
452	228-I-C-	<5	0.16	<0.5	<1.5	<3	<0.5	0.65	<6	3.1	N.D	6.39	0.026	
439	228-I-C-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.28	<6	<1	N.D	1.42	0.028	
443	228-I-D-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.71	<6	<1	N.D	3.55	0.008	
ISOTOPOS	432	227-II-B-	<5	<0.12	<0.5	<1.5	<3	<0.5	0.44	<6	5.7	N.D	0.71	0.036
	442	227-II-D-	<5	<0.12	<0.5	<1.5	<3	<0.5	1.11	<6	<1	N.D	172	0.02
	433	227-IV-	<5	0.39	<0.5	<1.5	<3	<0.5	0.13	<6	<1	N.D	82.2	0.025
EAAB	468	E-1	<5	<0.12	<0.5	<1.5	<3	<0.5	<0.1	<6	3.9	N.D	4.97	0.033
	460	E-2-EAA	<5	0.2	<0.5	<1.5	<3	<0.5	<0.1	<6	<1	N.D	9.23	0.022
	459	Vitelma	<5	<0.12	<0.5	<1.5	<3	<0.5	0.13	<6	<1	N.D	3.55	N.D
JICA	461	JICA-1	<5	<0.12	<0.5	<1.5	<3	<0.5	0.65	<6	<1	N.D	3.55	
	462	JICA-2	<5	0.13	<0.5	<1.5	<3	<0.5	0.3	<6	<1	N.D	30.5	0.024
	463	JICA-3	<5	<0.12	<0.5	2.7	<3	<0.5	1.3	<6	<1	N.D	37.3	
	464	JICA-5	<5	<0.12	<0.5	<1.5	<3	<0.5	0.24	<6	<1	N.D	9.94	0.044
	465	JICA-6	<5	<0.12	<0.5	1.7	<3	<0.5	<0.1	<6	<1	N.D	107	0.044

Exceed water quality Standard

Table 4.1 The comparisons of the water quality test results at each well with the allowable water quality standards for recreation (Phase 1)

	POZO No.	pH Unidades -	N M P ESCHERICHIA COLI Microorganismos / 100 ml	N M P COLIFORMES TOTALES Microorganismos / 100 ml	
VILLAPINZON	209-IV-A-004	5.4	0	0	
	10-0015	7.03	0	1	
	209-III-D-054	5.7	0	0	
BARANDILLAS RIVER	209-III-D-093	5.9	0	0	
	209-III-C-032	6.3	0	2	
	209-III-C-077	5.9	0	0	
	209-III-C-013	7.3	0	0	
	209-III-C-095	7.2	0	0	
	209-III-C-069	6.3	0	89	
HIAN AMARILLO	209-III-D-49	6.9	0	1	
	209-III-D-445	6.29	0	10	
	10-0070	6.0	3000	480000	
	11-0106	7.16	69	2000	
	227-IV-B-361	7.57	0	0	
	11-0138	6.47	0	0	
	11-0026	6.09	0	6	
	10-0026	7.56	0	7	
	TUNJUELITO RIVER	227-IV-C-044	6.97	0	0
		227-IV-C-51	7.53	0	0
227-IV-C-56		7.36	0	0	
227-IV-C-80		6.75	0	0	
07-0077		7.3	0	0	
07-0070		6.78	0	0	
17-0001		6.29	0	0	
07-0005		6.14	0	0	
19-0009		6.72	0	0	
BOGOTA RIVER		246-II-A-104	6.41	0	70
		246-II-A-143	5.05	0	0
		246-II-A-177	6.52	0	0
	246-II-A-135	5.33	0	13	
	246-II-A-087	5.74	0	0	
	246-II-A-190	5.38	0	0	
AGRICULTURAL	227-II-D-605	6.19	0	1	
	227-II-C-11	6.64	0	1	
	227-II-D-068	6.10	0	7	
INDUSTRY AREA	227-IV-A-264	6.98	0	490	
	227-II-B-081	6.66	1	25	
	09-0111	7.73	0	35	
	09-0021	6.60	0	0	
	01-0011	6.6	0	1	
GUADALUPE	08-0017	6.72	0	1	
	228-I-A-510	6.40	0	15	
	227-IV-A-349	6.9	0	0	
	227-IV-C-011	6.16	0	0	
	227-II-D-112	7.9	0	0	
	227-II-D-016	6.67	3	820	
	227-II-D-670	7.04	0	0	
	227-II-C-576	7.2	0	0	
	227-II-B-078	6.8	0	0	
	227-IV-A-063	6.77	1	49	
	227-II-C-094	4.87	0	0	
	227-IV-A-107	4.84	0	67	
QUATERNARY	227-IV-B-307	7.15	0	35	
	227-IV-A-441	6.27	0	5	
	227-IV-B-096	6.90	6	4100	
	227-IV-B-456	6.70	0	24	
	228-I-A-518	6.37	0	0	
	227-II-C-477	6.68	0	2	
	228-I-C-247	7.07	0	4600	
	228-I-C-041	6.26	0	0	
	227-II-D-749	7.25	0	0	
	228-I-C-018	6.77	0	0	
	227-II-D-802	6.7	0	0	
	228-I-D-003	6.60	0	690	
	227-II-C-972	7.00	0	11	
	227-II-B-757	6.26	0	6	
	227-II-C-007	7.04	0	0	
	227-II-B-770	7.9	2	17	
	227-II-B-255	8.2	0	0	
	228-I-B-069	6.53	0	9000	
	209-III-B-172	6.6	0	0	
	228-I-A-512	6.41	0	0	
228-I-A-515	7.1	0	48		
209-III-B-083	7.2	0	2		
228-I-C-178	6.53	0	5		
227-II-D-1008	7.7	0	0		
209-III-B-145	6.3	0	0		
ISOTOPE	246-II-A-061	6.76	0	6	
	227-II-D-587	7.0	0	0	
	227-IV-A-233	6.83	1	17	
	227-IV-A-299	7.07	0	10	
	228-I-C-257	7.1	0	11	
	08-0007	7.34	0	0	
	227-IV-B-561	7.24	0	410	
	11-0010	7.58	0	0	
	22-0078	6.47	0	2	
	228-I-C-019	6.28	0	11	
	209-III-D-172	7.2	0	1	
	228-I-A-509	6.5	0	0	
	209-III-D-036	6.6	0	0	
	209-III-B-170	5.14	0	1	
	227-II-D-1115	7.4	0	1	
	227-IV-A-447	6.9	0	67	
	227-IV-B-577	7.01	1	14	
	227-IV-A-X6	7.18	0	0	
	16-0003	6.58	0	0	
	10-0011	7.55	0	72	
	QUATERNARY	GIBRALTAR	7.50	0	580

Wells exceeded the standard for recreation which contact directv, and also exceeded the standard for recreation which contact indirectv
Wells exceeded the standard for recreation which contact directv, but not exceeded the standard for recreation which contact indirectv

Table 4.2 The comparisons of the water quality test results at each well with the allowable water quality standards for recreation (phase 2)

	POZO No.	pH Unidades -	N M P ESCHERICHIA COLI Microorganismos / 100 ml	N M P COLIFORMES TOTALES Microorganismos / 100 ml	OXIGENO DISUELTO mg/L	OXIGENO DISUELTO % (20)	
VILLAPINZON	10-0015	7.28	0	5500	4.200	47.5	
	209-III-D-054	5.7	0	0	0.370	4.8	
	209-III-D-093	5.9	0	0	8.030	90.8	
BARANDILLAS RIVER	209-III-C-032	6.1	0	1	0.810	8.8	
	209-III-C-013	6.91	0	0	6.750	76.4	
	209-III-C-095	7.2	0	0	7.060	79.9	
	209-III-C-069	6.3	0	1	0.800	8.0	
	209-III-D-077	6.4	1	1700	7.360	83.3	
	209-III-D-49	6.6	0	1	1.790	20.2	
HIAN AMARILLO	227-IV-B-445	7	0	98	0.670	7.6	
	10-0070	5.19	3	2400	3.670	41.8	
	11-0106	8.7	0	4000	6.530	75.9	
	227-IV-B-361	7.9	0	14	6.440	77.9	
	11-0138	7.1	0	3	3.800	43.0	
	11-0026	6.94	0	0	1.390	15.7	
	10-0026	7.6	0	1	5.830	66.0	
	227-IV-C-044	6.28	0	0	0.310	3.4	
	227-IV-C-51	6.92	0	0	6.940	78.5	
	227-IV-C-56	7.49	0	0	6.650	75.2	
TUNJUELITO RIVER	227-IV-C-80	6.4	0	0	6.660	75.3	
	07-0077	6.81	0	0	6.850	77.5	
	07-0070	6.75	0	0	6.830	77.3	
	17-0001	6.7	0	0	2.680	30.3	
	07-0005	6.36	0	0	1.990	23.4	
	19-0009	6.07	0	0	0.450	4.7	
	ROGOTA RIVER	246-II-A-104	6.67	0	0	0.960	10.9
		246-II-A-143	5.87	0	0	2.750	31.1
		246-II-A-177	6.38	0	1	4.000	45.9
	AGRICULTURAL	246-II-A-135	6.04	0	0	9.200	101.1
		246-II-A-190	5.91	0	0	1.460	16.5
		227-II-D-605	6.78	0	0	1.380	15.6
227-II-C-11		7.25	0	0	5.470	61.9	
INDUSTRY ARFA	227-I-D-068	6.4	0	0	5.680	64.3	
	227-IV-A-264	6.68	0	23	3.150	35.6	
	227-II-B-181	7	0	73	1.940	21.9	
	09-0111	7.11	0	10000	6.800	76.9	
	09-0071	6.47	0	0	1.790	20.0	
GUADALUPE	01-0011	6.66	0	0	1.590	18.0	
	08-0017	6.43	0	0	2.730	30.9	
	228-I-A-510	6.21	0	7000	2.300	26.0	
	227-IV-A-349	6.01	0	0	1.630	18.4	
	227-IV-C-011	6.56	0	0	3.750	42.8	
QUATERNARY	227-II-D-112	5.30	0	0	10.340	117.0	
	227-II-D-016	6.67	0	0	3.340	37.8	
	227-II-D-670	7.00	0	0	6.040	68.3	
	227-II-C-576	5.7	0	0	1.990	22.9	
	227-II-B-078	6.8	0	0	6.970	78.8	
	227-IV-A-063	7.16	0	170	2.520	28.5	
	227-II-C-094	5.1	0	0	2.740	31.0	
	227-IV-A-107	4.7	2	1000	1.250	14.1	
	227-IV-B-307	7.07	1	0	4.880	54.9	
	227-IV-A-441	6.44	0	2	0.340	3.8	
	227-IV-B-096	6.55	0	110	0.830	9.4	
	227-IV-B-456	6.8	0	6	1.680	19.0	
ISOTOPE	228-III-A-518	6.53	0	0	1.430	16.3	
	227-II-C-477	7.20	0	13	0.690	7.8	
	228-I-C-247	7.27	0	26	4.590	51.9	
	228-I-C-041	6.15	0	0	6.500	73.5	
	227-II-D-749	6.4	0	65	2.300	26.0	
	228-I-C-018	6.73	0	0	5.400	61.1	
	227-II-D-802	7.2	0	3100	6.400	72.4	
	228-I-D-003	6.50	0	270	0.960	10.9	
	227-II-C-972	7.2	0	8	7.930	89.1	
	227-II-B-757	6.6	0	0	1.490	16.9	
	227-II-C-007	7.90	0	11	2.770	30.8	
	227-II-B-770	6.50	0	13	1.260	14.3	
	228-I-B-079 (069)	6.5	0	0	1.160	13.1	
	209-III-B-172	6.4	0	0	1.330	15.0	
	228-I-A-517	6.57	0	0	1.270	14.4	
	228-I-A-512 APO	6.6	0	0	1.420	16.1	
	228-I-A-5157	6.38	0	4	1.820	20.6	
	209-III-B-172 (D)-083	7.2	0	0	6.590	74.5	
	228-I-C-178	6.60	0	78	1.120	12.7	
	227-II-D-1008	7.95	0	10	6.220	70.4	
209-III-B-145	6.1	0	4	0.550	6.2		
246-II-A-061	6.26	0	2	4.440	50.2		
227-II-D-587	7.2	0	310	1.500	17.0		
227-IV-A-233	7.12	0	0	2.170	24.8		
227-IV-A-299	7.1	0	13	2.070	23.9		
228-I-C-257	7.1	0	0	1.220	13.8		
08-0007	7.51	0	150	1.090	12.3		
227-IV-B-561	6.93	0	1300	3.500	39.6		
228-III-A-051	7.36	0	0	3.380	38.2		
22-0078	6.57	0	7	0.750	8.5		
228-I-C-019	6.42	0	9	2.850	32.2		
209-III-D-172	6.62	0	100	0.790	8.9		
228-I-A-509	6.4	0	120	1.160	13.1		
209-III-D-036	6.7	0	0	6.640	75.1		
209-III-B-170	5.9	0	7	2.340	26.8		
227-II-D-Noticia	6.9	0	1	5.220	59.0		
227-IV-A-442	6.53	0	0	0.210	2.4		
227-IV-B-577	7.45	0	140	1.510	17.1		
227-IV-B-576	7.15	0	0	1.900	21.5		
16-0003	6.63	0	87	1.410	16.0		
10-0011	7.53	0	39	6.340	71.7		
FAAR	FAAR(Cra. 7 No.	8.67	0	270	1.180	13.3	
	FAAR(Cra. 93 No.	8.15	0	490	0.950	10.7	
JICA	J-1 GIBRALTAR	7.4	0	1800	0.310	3.5	
	J-2 TISQUEASA	7.90	0	38	0.860	9.7	
	J-3 SIBERIA	6.7	0	9	0.450	5.1	
	J-4 SOPO	6.9	0	220	0.840	9.5	
	J-5 LA DIANA	6.9	0	11	0.330	3.7	
	J-6 CHOCONTA	5.9	0	46	0.990	11.2	
Termales	Pozo Termales	7.5	0	0	2.390	27.0	

Table 5.1 The water quality test results on organic parameters (Phase 1)

Well No.	EAST	NORTH	DATE	Tolueno µg/l	o-Xileno µg/l	m-Xileno µg/l	p-Xileno µg/l	Benceno µg/l	Etil Benceno µg/l
09-011	995,706	1,005,505	2001/2/27	ND	ND	ND	ND	-	-
09-0021	995,042	1,006,166	2001/2/26	ND	ND	ND	ND	-	-
01-0011	1,003,747	1,017,976	2001/2/20	ND	ND	ND	ND	-	-
08-0012	992,233	1,000,120	2001/2/23	ND	ND	ND	ND	-	-
228-I-A-510	1,015,040	1,038,530	2001/2/14	ND	ND	ND	ND	-	-
GIBRALTAR	988,439	1,005,845	2001/1/19	ND	ND	ND	ND	ND	ND

Table 5.2 The water quality test results on organic parameters (Phase 2)

Well No.	EAST	NORTH	DATE	Benceno µg/L	Etil Benceno µg/L	Tolueno µg/L	o-Xileno µg/L	m-Xileno µg/L	p-Xileno µg/L
09-011	995,706	1,005,505	2001/10/11	ND	ND	ND	ND	ND	ND
09-0021	995,042	1,006,166	2001/10/11	ND	ND	ND	ND	ND	ND
01-0011	1,003,747	1,017,976	2001/10/9	ND	ND	ND	ND	ND	ND
08-0012	992,233	1,000,120	2001/10/11	ND	ND	ND	ND	ND	ND
228-I-A-510	1,015,040	1,038,530	2001/10/17	ND	ND	ND	ND	ND	ND

Table 5.3 The water quality test results on organic parameters (Phase 3)

POZO No.	East	North	Date	Benceno µg/L	Etil Benceno µg/L	Tolueno µg/L	o-Xileno µg/L	m-Xileno µg/L	p-Xileno µg/L
09-0011	995706	1005505	2002/8/26	<0.013	<0.012	<0.012	<0.078	<0.026	<0.080
09-0021	995042	1006166	2002/8/27	<0.013	<0.012	<0.012	<0.078	<0.026	<0.080
08-0007	994111	1005719	2002/8/29	<0.013	<0.012	<0.012	<0.078	<0.026	<0.080
08-0012	992233	1000120	2002/8/27	<0.013	<0.012	<0.012	<0.078	<0.026	<0.080
228-I-A-510	1015040	1038530	2002/8/27	<0.013	<0.012	<0.012	<0.078	<0.026	<0.080

Table 6.1 The water quality test results on agrochemicals (Phase 1)

Well No.	EAST	NORTH	DATE	Clordano µg/l	o-p DDT µg/l	p-p DDT µg/l	Lindano µg/l	Metoxicloro µg/l	Heptacloro µg/l	Epoxido Heptacloro µg/l	Bentazona µg/l	2,4-D µg/l	2,4-DB µg/l	2,4,5-T µg/l	Dicloroprop µg/l	Pentaclorofenol µg/l	Aldicarb µg/l	Carbofuran µg/l	Permetrina µg/l	Atrazina µg/l	Simazina µg/l	Metolaclor µg/l	Trifluralina µg/l	2-Clorofeno µg/l	2,4,6-Triclorofenol µg/l	2,4-Dinitrofenol µg/l	Aldrin µg/l	Dieldrin µg/l	
227-II-D-605	989,275	1,028,640	2001/2/27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
227-II-C-11	971,790	1,020,500	2001/2/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
227-I-D-068	969,400	1,024,410	2001/2/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
227-IV-A-264	978,860	1,014,560	2001/2/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
227-II-B-181	998,825	1,032,430	2001/2/27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GIBRALTAR	988,439	1,005,845	2001/1/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6.2 The water quality test results on agrochemicals (Phase 2)

Well No.	EAST	NORTH	DATE	Endrin ng/L	Dieldrin ng/L	p-p DDT ng/L	Lindano ng/L	Metoxicloro ng/L	Heptacloro ng/L	Heptacloro Epoxido ng/L	Endosulfan I ng/L	Endosulfan II ng/L	Endosulfan Sulfato ng/L	2,4-D µg/L	2,4,5-T µg/L	2,4-TP µg/L	Linuron µg/L	Simazina µg/L	Aldicarb µg/L	Carbofuran µg/L	Profenofos µg/L	Clorpirifos µg/L	Triclorfon µg/L	Malation µg/L	Etil Paration µg/L	Metil Paration µg/L	Diazinon µg/L		
227-II-D-605	989,275	1,028,640	2001/10/17	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	
227-II-C-11	971,790	1,020,500	2001/10/12	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
227-I-D-068	969,400	1,024,410	2001/10/16	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	1.9	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
227-IV-A-264	978,860	1,014,560	2001/10/12	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.
227-II-B-181	998,825	1,032,430	2001/10/12	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	6	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.	N. D.

Table 6.3 The water quality test results on agrochemicals (Phase 3)

POZO No.	East	North	Date	Endrin	Dieldrin	p-p DDT	Lindano	Metoxicloro	Heptacloro	Heptacloro Epoxido	Endosulfan I	Endosulfan II	Endosulfan Sulfato	2,4-D	2,4,5-T	2,4-TP	Linuron	Simazina	Aldicarb	Carbofuran	Profenofos	Clorpirifos	Triclorfon	Malation	Etil Paration	Metil Paration	Diazinon
227-II-D-605	989275	1028640	2002/8/26	<0.012	<0.005	<0.025	<0.012	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.180	<0.200	<0.250	<0.85	<0.050	<0.30	<0.30	<0.50	<1.1	<0.65	<1.2	<1.2	<1.4	<0.30
227-II-C-011	971790	1020500	2002/8/14	<0.012	<0.005	<0.025	<0.012	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.180	<0.200	<0.250	<0.85	<0.050	<0.30	<0.30	<0.50	<1.1	<0.65	<1.2	<1.2	<1.4	<0.30
227-IV-A-264	978860	1014560	2002/8/15	<0.012	<0.005	<0.025	<0.012	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.180	<0.200	<0.250	<0.85	<0.050	<0.30	<0.30	<0.50	<1.1	<0.65	<1.2	<1.2	<1.4	<0.30
227-II-B-181	998825	1032430	2002/8/21	<0.012	<0.005	0.025	<0.012	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.180	<0.200	<0.250	<0.85	<0.050	<0.30	<0.30	<0.50	<1.1	<0.65	<1.2	<1.2	<1.4	<0.30
227-I-D-068	969400	1024410	2002/8/14	<0.012	<0.005	<0.025	<0.012	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.180	<0.200	<0.250	<0.85	<0.050	<0.30	<0.30	<0.50	<1.1	<0.65	<1.2	<1.2	<1.4	<0.30

Table 7.1 The comparisons of the water quality test results for river water with the quality standards for raw water usable for drinking and living (Phase 3)

No. CIC	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489
FUENTE DE AGUA	Río Teusacá - Cas. El	Río Teusacá - Cas.	Río San Cristobal	Río Checua	Río Neusa	Río Subachoque. Qda.	Río Subachoque. Qda.	Río Subachoque.	Río Andes	Río Frío	Río Bogotá -	Río Bogotá - Tibitoc	Río Bogotá-Juan	Río Bogotá -	Río Bogotá -	Río Bogotá- Pte.	Río Teusacá	Río Bogotá -
COORD. N	1001027.214	1020988.184	996105.977	1058368.479	1053168.831	1046292.749	1047564.114	1039197.47	1030211.42	1041537.231	1065515.506	1041390.907	1015329.11	1003405.96	994025.735	1035621.448	1037391.127	1070626
COORD. E	1007240.559	1012804.086	1001803.315	1023978.176	1016328.503	992172.299	996811.678	988215.714	963237.631	1001377.099	1050788.365	1012893.012	994813.271	984381.935	980310.951	1008272.505	1010878.779	1060953
TEMPERATURA °C	10.5	14.6	10.6	13.2	12.9	11.1	10.5	12.1	10.8	11.3	12.2	14.9	15.7	18.3	17.7	15.4	14.6	9.9
pH Unidades	6.3	7.1	6.1	7.1	6.9	6.8	6.9	6.7	6.5	6.9	7.5	6.2	6.6	6.5	6.9	7.1	7.1	5.6
CONDUCTIVIDAD µS/cm	10.1	69	12.5	129.9	49.3	31.5	36.1	19.7	8.1	35.6	64.2	72.2	136.9	392	370	156.5	82.4	4.3
ALCALINIDAD CaCO3 mg/L	4.186	16.07125	4.6345	34.90825	11.8105	12.7075	11.661	10.465	4.3355	4.3355	13.3055	22.8735	30.498	108.31275	112.49875	24.89175	19.2855	2.31725
O2 DISUELTO mg/L	8.32	7.72	7.91	7.18	6.81	7.6	7.43	7.34	7.38	7.7	7.82	2.62	1.38	0.8	0.36	2.26	6.55	7.78
OLOR	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Fétido	Inolora	Inolora	Fétido / crudo	Muy Fétido	Inolora	Inolora	Inolora
FECHA	37491	37491	37483	37484	37484	37481	37481	37481	37481	37484	37488	37496	37494	37483	37483	37484	37491	37488
OLOR	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Inolora	Fétido	Inolora	Inolora	Fétido / crudo	Muy Fétido	Inolora	Inolora	Inolora
SISTEMA DE EXTRACCIÓN	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica
TIPO DE USO	No hay dato	No hay dato	Doméstico	No hay dato	No hay dato	Doméstico	Doméstico	Doméstico	Doméstico	No hay dato	Riego	No hay dato	No hay dato	Riego	Ninguno	No hay dato	No hay dato	Doméstico/
TIEMPO Y TASA DE USO	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica
CAMBIOS	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica
AUMENTO PROFUNDIDAD	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica
CERCA DE	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica	No aplica
Índice	-5.5	-3.8	-5.2	-3.6	-4.35	-4.3	-4.3	-5.4	-5.3	-5.0	-4.0	-4.7	-4.1	-3.55	-2.7	-3.3	-3.6	-6.5
Sulfuro de Hidrógeno	2.0625	2.0625	4.125	2.0625	4.125	2.0625	2.0625	4.125	4.125	4.125	4.125	2.0625	2.0625	6.1875	8.25	4.125	2.0625	2.0625
Color Aparente	50	40	100	1200	50	20	10	50	20	200	120	120	70	160	200	150	50	30
Color Verdadero. (Hazen).	50	30	70	1000	40	20	10	40	20	40	90	120	70	120	200	70	40	20
Turbiedad UNT	16	5	6	892	6	2	1	26	1	14	28	15	12	60	45	19	6	1
Sólidos susp. Totales. mg/L	36	24	11	748	7	1	11	22	3	70	46	14	24	73	58	37	20	6
Sólidos Dis. mg/L	25	47	26	80	83	11	45	121	22	239	47	58	100	310	197	99	66	11
Amonio mg/L	N.D	N.D	1.84	1.13	3.64	N.D	0.22	N.D	0.402	1.26	0.01	0.7446	N.D	21.7	21.7	1.99	N.D	N.D
Aluminio mg/L	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Zinc mg/L	0.026	0.012	N.D	0.026	0.024	0.024	0.024	0.003	0.07	0.07	0.016	0.025	0.098	0.022	0.042	0.009	0.021	
NMP	44 x 102	12 x 104	20 x 10	13 x 104	17 x 103	17 x 102	16 x 102	27 x 102	41 x 10	18 x 103	31 x 104	16 x 103	15 x 104	26 x 106	13 x 106	92 x 104	29 x 103	13 x 10
NMP	20 x 10	30 x 103	0	63 x 102	74 x 10	0	0	84 x 10	0	0	17 x 103	0	10 x 103	20 x 105	31 x 105	17 x 104	60 x 102	10 x 10-1
Na mg/L	0.97	4	0.5	8.8	2.75	0.89	0.9	1.74	0.61	1.68	5.8	4.6	12.5	35	34.7	17.5	4.8	0.19
K mg/L	0.27	0.59	0.21	2.3	1.03	0.76	0.34	0.53	0.34	0.77	1.49	3.04	2.82	7.45	7.8	1.98	1.36	0.23
Ca mg/L	0.86	6.78	1.13	6.3	3.72	4.08	4.3	1.4	0.77	2.55	4.5	4.4	6.88	10.8	11.1	15.4	7.28	0.39
Mg mg/L	0.2	1.07	0.28	5.5	1.05	0.38	0.82	0.53	0.16	0.76	0.96	1.76	1.71	2.09	2.02	1.16	1.24	0.1
Fe mg/L	<0.2	<0.2	<0.2	1.1	0.33	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.5	0.3	1.28	0.68	0.52	0.5	<0.2
Cl mg/L	1.42	8.52	0.71	6.39	5.68	2.13	<0.2	<0.2	<0.2	3.55	11.7	6.75	19.2	38.7	3.55	24.9	7.81	<0.2
HCO3 mg/L	5.10692	19.606925	5.65409	42.588065	14.40881	15.50315	14.22642	12.7673	5.28931	5.28931	16.23271	27.90567	37.20756	132.141555	137.248475	30.367935	23.52831	2.827045
SO4 mg/L	<2	<2	<2	17	<2	<2	6.29	<2	<2	4.11	<2	<2	<2	23.5	<2	2.64	<2	<2
NO3 -N mg/L	<0.1	0.33	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	<0.1	0.12	0.31	0.24	0.86	0.12	<0.1	0.66	0.46	<0.1
CO3 mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NO2 - N µg/L	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	14	51	<6	<6	39	9	<6
B mg/L	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.14	0.19	<0.12	<0.12	0.16	<0.12	<0.12	<0.12	0.19	<0.12	<0.12	<0.12
CN- mg/L	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	0.16	0.162	<0.07	<0.07	<0.07
F- mg/L	0.033	0.032	0.027	0.172	0.036	0.046	0.053	0.043	0.027	0.028	0.028	0.042	0.045	0.077	0.06	<0.025	0.03	<0.025
Cu µg/L	3	<1	<1	5.3	<1	<1	<1	<1	<1	<1	<1	4.9	5.1	5.2	2.5	<1	3.1	<1
Mo µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cd µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
As µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cr total µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	34	1.7	1.6	19	6.2	2.8	<1.5
Pb µg/L	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Ni µg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.5	<5	<5	<5	12	8.6	<5	<5	<5
Se µg/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Sb µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ba µg/L	118	111	103	119	127	50	69	69	74	108	83	109	97	236	199	134	94	88
Be µg/L	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Mn µg/L	12	24	5.8	12	29	6.6	6.3	5.2	15	34	23	28	30	71	81	63	63	4.8
Hg µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

 Wells exceeded the water quality standard for raw water usable for drinking and living if treated by the traditional treatment
 Wells exceeded the water quality standard for raw water usable for drinking and living if treated by Chlorination
 Wells exceeded the Colombian water quality standard for potable water
 Wells exceeded the guideline for potable water (No standard value in Colombia)

Table 7.2 The test results of sediments of riverbed (Phase 3)

No. CIC	No. POZO	UBICACIÓN	COOR. N	COOR. E	CLASSIFIED	FUENTE DE AGUA	Cu mg/kg	Pb mg/kg	Cd mg/kg	Se µg/kg	As µg/kg	Cr (VI) µg/kg	Hg µg/kg	CN mg/kg	P. Org. mg/kg	PCBs TOTAL mg/kg
490	Sedimento 1 Río Bogotá	Vereda Quincha Bajo. Aprox. 200 m abajo de la bomba de gasolina a la entrada de Chocontá. Altitud 2716 m.	1067535	1053115.2	SEDIMENTOS	Sedimento 1 Río Bogotá	7.4	6.5	0.3	<40	439	<15	126	13.1	<10	0.296
491	Sedimento 2 Río Bogotá	Medio camino entre Chocontá y Villapinzón. Altitud 2709 m.	1066346	1052395.4	SEDIMENTOS	Sedimento 2 Río Bogotá	4.5	13	0.2	59	444	<15	181	24.1	168	2.129
492	Sedimento 3 Río Bogotá	Vereda Aposentos. Chocontá. Altitud 2675 m.	1063800	1048664.5	SEDIMENTOS	Sedimento 3 Río Bogotá	7.45	8	0.4	<40	572	<15	196	23	53	3.387
493	Sedimento 4 Río Bogotá	Previo al ingreso del río a Tibitoc. Puente Rojo. 30 m aguas abajo. Altitud 2576 m.	1041428	1012893	SEDIMENTOS	Sedimento 4 Río Bogotá	10.4	7	0.5	<40	656	<15	58	12	302	0.037