

Table S1

Study ID / Well Name	Latitude (dd)	Longitude (dd)	Elevation (m)	Borehole Depth (m)	Top Screen Depth (m)	Bottom Screen Depth (m)	Date of Measurement (dd/mm/yy)	Static Water Depth (m-bgs)	72-Hour Pump Test Rate (m ³ /hour)	Drawdown (m)	Specific Capacity (m ³ /hour-m)
Irrigation Wells											
28-2	-72.62658	19.49336	47.0	--	--	--	--	--	--	--	--
31 New	-72.65641	19.45030	15.3	--	--	--	--	--	--	--	--
Belanger F-21A	-72.63150	19.48255	35.8	87.00	15	78	26/09/80	5.6	237	28.82	8
Bellanger 28	-72.62654	19.49370	47.1	64.50	16.5	40.5	14/12/81	7.4	207	17	12
Bellanger 8-A	-72.62693	19.48374	37.1	123.00	--	--	--	--	--	--	--
Bellanger 8-C	--	--	--	100.00	--	--	--	--	--	--	--
Bellanger/La Croix 27	-72.62824	19.49401	45.9	90.00	15.5	58	23/02/79	8.2	207	28.22	7
Bigot 13-B	-72.65461	19.45805	18.1	93.00	14	74	24/03/77	4.9	207	20.5	10
Bois Marchand 4-B	-72.65905	19.47744	25.7	156.00	18.5	51	27/11/75	6.3	188	16.52	11
Bois Neuf 11	-72.63682	19.46603	24.8	70.70	18.5	61	8/05/75	3.5	268	22.43	12
Bongris 15	-72.64921	19.44736	14.7	85.00	12.5	62.5	27/05/77	3.0	170	23.24	7
Cadette 6-A	-72.63507	19.47607	31.2	70.00	21	58.5	9/04/76	8.2	227	18.7	12
Chatelain F-16	-72.66914	19.46125	11.0	70.00	19	31.5	12/02/76	2.9	227	18.65	12
Cocherelle 19	-72.63387	19.45576	20.0	78.50	18.5	76	13/01/77	3.1	102	26.5	4
Cocherelle 34	-72.63832	19.44762	14.8	90.00	25.5	72	18/01/80	0.7	279	28.34	10
Derisseau 32	-72.65881	19.44194	11.0	94.00	20.5	72	10/11/78	3.1	323	18.26	18
Descordes 16-A	-72.62810	19.46920	27.3	62.50	13.5	56	16/07/76	5.8	161	22.7	7
Descordes 7	-72.63719	19.47287	29.6	60.00	8.5	51	13/05/76	8.8	176	24.26	7
Desronville 3A	-72.65991	19.46338	17.5	115.00	19	84	7/06/75	2.3	532	7.16	74
Desronville F4N	-72.66559	19.46782	15.3	78.00	18	73.5	11/12/80	2.0	346	22.3	16
Dessources 17	-72.62363	19.46424	23.2	91.00	14.5	72	30/09/76	3.5	188	20.88	9
Dessources 36	-72.62455	19.46885	26.5	81.00	13.7	66.7	27/09/79	3.0	334	16.72	20
Doland 1	-72.63973	19.49370	44.7	95.00	14	64	8/08/75	7.3	208	22.2	9
Doland 2	-72.64240	19.48928	39.7	96.50	10	57.5	26/09/75	7.9	268	16.02	17
Doland 24	-72.64656	19.49157	42.9	91.00	14	39	11/04/74	11.5	110	21.56	5
Doland 29	--	--	--	67.00	--	--	--	7.9	67	--	--
Doland 30	-72.64776	19.49016	41.5	64.00	16.5	51	29/04/78	16.8	110	22.5	5
Doland 5-A	-72.64064	19.48095	33.7	83.80	17.5	55	13/10/75	6.2	380	12.85	30
F-21B (F2N)	-72.63095	19.48265	35.5	--	--	--	--	--	--	--	--
FAO 4-1	-72.65513	19.47762	27.4	--	--	--	--	--	--	--	--
FAO 4-2	-72.65224	19.47964	30.6	--	--	--	--	--	--	--	--
FAO 4-4	-72.64718	19.48255	34.0	--	--	--	--	--	--	--	--

Title: Data and insights to advance characterization of groundwater resources in the Plaine des Gonaïves , Haiti

Authors: James K Adamson; Wm. Javan Miner; Jonas L Bernasconi

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Study ID / Well Name	Latitude (dd)	Longitude (dd)	Elevation (m)	Borehole Depth (m)	Top Screen Depth (m)	Bottom Screen Depth (m)	Date of Measurement (dd/mm/yy)	Static Water Depth (m-bgs)	72-Hour Pump Test Rate (m ³ /hour)	Drawdown (m)	Specific Capacity (m ³ /hour-m)
FAO 4-7	-72.64019	19.49836	48.9	--	--	--	--	--	--	--	--
FAO F-1	-72.62896	19.49129	43.2	--	--	--	--	--	--	--	--
FAO F-12	-72.64614	19.46728	24.3	--	--	--	--	--	--	--	--
La Croix 26	-72.63669	19.49753	47.3	75.00	13.5	61	17/09/77	7.3	152	29.42	5
Lacroix 5-C	-72.63467	19.48882	40.0	98.00	16	78.5	11/07/75	11.5	268	25.24	11
Mapou Chevalier 25	-72.63769	19.49963	49.1	76.50	--	--	--	7.0	110	18.57	6
Marotte 12-A	-72.65280	19.46219	20.9	101.50	16	78.5	22/03/75	4.8	405	23.94	17
Marotte 31	-72.65641	19.45029	15.6	95.20	14	75	9/08/78	2.7	207	29.46	7
Pont Gaudin 21	-72.65977	19.43931	10.3	78.50	13.5	71	15/07/77	4.6	290	22.65	13
Rofilier 33	-72.63968	19.46654	25.7	84.00	20.5	71	27/07/79	3.7	312	14.08	22
Souvenance 10-A	-72.62770	19.47561	31.3	72.50	25.5	58	18/03/76	9.0	118	26.22	5
Tarras 35	-72.63727	19.46035	22.8	99.50	20.5	75.5	19/06/80	1.7	290	17.9	16
Yon 4-A	-72.64867	19.47468	27.4	152.00	7	74.5	20/06/75	4.9	405	9.62	42
Municipal Wells											
1 / PG1	-72.6587	19.44050	--	--	--	--	--	--	--	--	--
PG2	-72.6561	19.44330	--	70	27.4	64	02/2006	3.89	108	6.3	17
SP1	-72.6661	19.45770	--	--	--	--	--	--	205 ³	--	--
F16	-72.6690	19.46129	70	19	31.4	12/1976	2.93	227	18.65	12	12
2 / SP2bis	-72.6700	19.46279	--	--	--	10/10/18	0.90	90 ³	--	--	--
4 / ODPG	-72.6645	19.4683	--	71.63	21.3	70.1	10/10/18	5.54	55 ³	7.14	8

-Data Sources: MTA, unpublished data, 1983; CTE-Gonaïves , personal communication, 2018; Steaci and Soheco, unpublished data, 2018; Foratech, unpublished data, 2006; direct measurements by authors, October 2018.

-All elevations derived from 1.5m resolution LiDAR dataset

Table S2

Parameter	Units	DINEPA Standard	WHO Guidelines	USEPA MCL	USEPA Secondary MCL	Irrigation #1 IRR-1	Community Hand Pump #2 Kayon	Business / Hotel #3 Odivin Hotel	Community Hand Pump #4 Haut Kayon	CTE- Gonaïves #5 SP2bis	CTE- Gonaïves #6 ODPG	CTE- Gonaïves #7 PG1	School / Institution #8 Jubilee Well
						19.4937 -72.63973	19.47314 -72.65122	19.44704 -72.66491	19.48153 -72.64009	19.46280 -72.6705	19.46839 -72.6645	19.44050 -72.6588	19.43657 -72.6918
Date Collected						8/10/18	8/10/18	10/10/18	8/10/18	8/10/18	8/10/18	8/10/18	10/10/18
Alkalinity (CaCO ₃)	mg/L	500	--	--	--	180	330	430	330	330	380	330	330
Bicarbonate (CaCO ₃)	mg/L	--	--	--	--	180	330	430	330	330	380	330	330
Chloride	mg/L	250	250	--	250	27	48	72	36	78	78	45	36
Conductivity	uS/cm	--	--	--	--	532	855	1050	809	977	1050	870	746
Fluoride	mg/L	2	1.5	4	--	0.15	0.18	0.21	0.16	0.17	0.21	0.13	0.24
Ammonia (N)	mg/L	--	--	--	--	<0.10	<0.10	0.2	<0.10	<0.10	<0.10	<0.10	<0.10
Nitrite (N)	mg/L	3	--	1	--	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate (NO ₃ -N)	mg/L	10*	10*	10	--	4.35	2.32	0.4	1.45	4.3	4.1	3.33	1.6
pH @ 25°C	-	--	--	--	--	8.01	7.19	7.2	7.23	7.97	7.37	7.19	7.71
Sulfate	mg/L	250	500	--	250	36	46	62	37	73	72	47	30
Silica (SiO ₂)	mg/L	--	--	--	--	13.2	16.8	27.9	15.1	14	16.6	17.6	14.9
TOC	mg/L	--	--	--	--	2.1	1.1	1.4	0.5	0.8	0.7	0.7	0.7
Antimony	mg/L	--	0.02	0.006	--	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
Arsenic	mg/L	--	0.01	0.01	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium	mg/L	--	0.7	2	--	0.128	0.213	0.258	0.175	0.207	0.269	0.243	0.28
Beryllium	mg/L	--	--	0.004	--	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Cadmium	mg/L	--	0.003	0.005	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Calcium	mg/L	100	--	--	--	44.5	95.3	102	87.6	76.3	103	93.9	36.2
Chromium	mg/L	--	0.05	0.1	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	1	2	1.3	--	<0.005	0.01	0.012	0.006	<0.005	<0.005	<0.005	<0.005
Iron	mg/L	0.2	--	--	0.3	0.1	<0.05	0.29	<0.05	0.32	0.18	<0.05	<0.05
Lead	mg/L	0.01	0.01	0.015	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	mg/L	100	--	--	--	8.4	16.3	26.6	13.2	25.7	26.2	19.8	18.7
Manganese	mg/L	--	0.5	--	0.05	<0.005	<0.005	0.059	<0.005	0.015	0.006	<0.005	<0.005
Potassium	mg/L	--	--	--	--	3.6	2.9	2.8	2.5	3.5	3	2.5	16.3
Silver	mg/L	--	--	--	0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Sodium	mg/L	--	--	--	--	43.9	54.6	72.3	61.6	74.1	71.1	53.9	77.8
Thallium	mg/L	--	--	0.002	--	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	mg/L	3	--	--	5	0.024	<0.010	0.531	<0.010	0.804	0.076	<0.010	<0.010
Hardness (CaCO ₃)	mg/L	300	--	--	--	146	305	365	273	296	366	316	360
Mercury	mg/L	--	0.0005	0.002	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Field Temperature	°C	--	--	--	--	28	29.3	29.9	29	28.7	28.1	29.4	30.9
Total Dissolved Solids	mg/L	600	1000	--	500	210	500	652	494	568	628	512	452

NOTE: 0.09 constituent detected
125 exceeds DINEPA reference standard
0.012 exceeds WHO guidelines
* WHO & DINEPA standard is 50 mg/L as NO₃, NO₃-N values reported