

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

PH 1 2 4

31621-0629

SCREEN 1: LOCATION

PGWB No	31621-0629	Source	PHDSI FS REPORT			Local No	
Other No	NMA WELL #1		Basin				
Longitude	120°59'25" X MM	517.0	X PTM	498.951	Basin Area		
Latitude	14°16'45" Y MM	249.1	Y PTM	1579.057	Loc. Method	OLM	
Prov. Code	CAV CAVITE		Gr. Elev	195.00	Accu.		
Addr/Owner	BGY. BULIHAN, SILANG		SILANG WATER DISTRICT				
Mun. Code	SIL SILANG	Year	1990	Pop	93,790		
Rgy. Code	049 Bulihan	U	Pop	2,903			

SCREEN 2: WELL CONSTRUCTION DATA

PHDSI FS REPORT

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
113.0	200		0.00	113.0	UN			61.0	70.0
155.5	150		113.0	155.5	UN			75.0	81.0
					UN			90.0	100.0
					UN			113.0	116.0
					UN			122.0	127.0
					UN			130.0	131.0
					UN			140.0	150.0

Comp Date	10/25/82	Level		Ovn'p		Type		Use	
Operating		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)	0.80	Static WL (mbmp)		31.37	MSL			164.43	

SCREEN 3: STRATA LOG DATA

PHDSI FS REPORT

Driller	D C A	Drill. Method	Described by
Depth to Underdrift of Layer (mbg)	Form.	F. Area	Logs
	Code	Brief Description of Penetrated Strata	
9.2	C S182	BROWNISH CLAY, FINE TO MED. GRAINED SAND	
45.7	G C	FINE GRAVEL, DARK GREY CLAY	
82.3	PUV G	VOLCANIC PUMICE, FINE TO MEDIUM GRAVEL	
88.4	C G T	PLASTIC CLAY, FRAGMENTS OF TUFFACEOUS & GRAVEL	
105.2	Puv I	VOLCANIC PUMICE, SILT	
112.8	C T	BROWNISH PLASTIC CLAY, FRAGMENT OF TUFFACEOUS	
140.2	C puv	PLASTIC CLAY, FRAGMENTS OF VOLCANIC PUMICE	
150.9	Puv c	VOLCANIC PUMICE WITHIN LAYER OF DARK GREY CLAY	
155.5	R	BASALT, DARK GREY PYROCLASTIC ROCKS	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

PHDSI FS REPORT

Date	06/04/90	By	OI	No Steps / Duration (min)	4 / 20
Q Max (l/s)		7.44	Transmissiv. (m ² /sec*10 ⁻³)		
Total Spec. Drawd. (m)	17.57	Aquifer Loss Coef. B(sec/m ²)	1460.00		
Specific Capacity (l/s/m)	0.42	Well Loss Const. -C(sec ² /m ⁵)	125000		

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PHDSI FS REPORT

Date	10/22/82	By	DR	Drawdn.	Recov.
Duration (min)	2880	Trans. (m ² /sec*10 ⁻³)	0.43	0.30	
Discharge (l/s)	8.17	OBSERVATION WELL NO.			
Total Drawdown (m)	28.42	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	0.2	Leakage (s-1*10 ⁻¹⁰)			
Well Potential	POOR	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Sample Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Mg++	Zn++	NO2-	N25
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

PHDSI FS REPORT

Measuring Pt. (M.P.)	M.P. ab. Ground	0.80	Period. m.	No			
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL
10/25/82	31.37	No	164.43				
06/04/90	40.06	No	155.74				

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

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31621-0630

SCREEN 1: LOCATION

PGDB No	31621-0630	Source	PHDSI FS REPORT		Local No	
Other No	MHA WELL #2	Basin				
Longitude	120°59'37" X PM	524.2	X PTH	499.311	Basin Area	
Latitude	14°16'10" Y NM	227.6	Y PTH	1577.981	Loc. Method	OLG
Prov. Code	CAY CAVITE		Gr. Elev	230.00	Accu.	
Addr/Owner	BCY. BULIHAN, SILANG		SILANG WATER DISTRICT			
Mun. Code	SIL SILANG		Year	1990	Pop	93,790
Egy. Code	049 Bulihan		U	Pop	2,903	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
91.5	200		0.00	91.5	UN			73.2	79.3
170.7	150				UN			82.3	88.4
					UN			97.6	100.6
					UN			103.7	106.7
					UN			109.8	112.8
					UN			115.9	118.9
					UN			129.6	131.1
					UN			140.0	143.2
					UN			155.0	157.0

Comp Date	12/01/82	Level		Ovn'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)	0.80	Static WL (mbgp)			37.13	MSL		193.67	

SCREEN 3: STRATA LOG DATA

Driller	DCA	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs
9.1	C S1S2		BROWNISH CLAY, FINE TO MEDIUM SAND
27.4	PV S		VOLCANIC PUMICE, FINE TO MEDIUM SAND
33.5	PV S1		VOLCANIC PUMICE, FINE SAND, BROWNISH CLAY
45.7	C C t		BROWNISH CLAY, SMALL AMT. OF TUFFACEOUS GRAVEL
93.0	T v C		VOLCANIC TUFF, MEDIUM COARSE GRAVEL SAND
118.9	PV S1		VOLCANIC PUMICE, FINE SAND
140.2	C PVG		BROWNISH CLAY, VOLCANIC PUMICE, GRAVEL CHIPS
155.5	C C I		GREY CLAY, CHIPS OF GRAVEL, SILT
169.2	C I S		SILTY CLAY, W/LAYERS OF TUFFACEOUS GRAVEL
170.7	K R		CONGLOMERATE, PYROCLASTIC ROCK (BASALT)

SCREEN 4: STEP DRAWDOWN PUMPING TEST

PHDSI FS REPORT

Date	12/28/89	By		No Steps / Duration (min)	4 / 20
Q Max (l/s)		13.02	Transmissiv. (m ² /sec*10 ⁻³)		
Total Spec. Drawd. E _{ssw} (m)	20.92	Aquifer Loss Coef. B(sec/m ²)	760.00		
Specific Capacity (l/s/m)	0.62	Well Loss Const. -C(sec ² /m ⁵)	77143		

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PHDSI FS REPORT

Date	11/28/82	By	DR	Drawdn.	Recov.
Duration (min)	1800	Trans. (m ² /sec*10 ⁻³)	0.79	0.39	
Discharge (l/s)	11.15	OBSERVATION WELL NO.			
Total Drawdown (m)	38.14	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	0.2	Leakage (s*10 ⁻¹⁰)			
Well Potential	POOR	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	Mg++	NO3-	CO2
Cond. µS/cm	Mn++	Cu++	NO2-	H2S
Temp °C	Fe++	HCO3-	PO4=	CH4
Turbidity	Na+	SO4=	F-	B
Alkalinity	K+	Cl-	SiO2	Pb
T. Hardness				

SCREEN 7: GROUNDWATER LEVELS HISTORY

PHDSI FS REPORT

Measuring Pt. (M.P)	M.P. ab. Ground	0.00	Period. m.	No			
Date	GW Level BHP (m)	SWL?	GW Level HSL	Date	GW Level BHP (m)	SWL?	GW Level HSL
12/01/82	37.13	No	192.87				
12/28/89	50.00	No	180.00				

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

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31621-0631

SCREEN 1: LOCATION

PGDB No	31621-0631	Source	PMDSI FS REPORT			Local No	
Other No	MHA WELL #4	Basin					
Longitude	120°59'42" X MM	527.1	X PTM	499.461	Basin Area		
Latitude	14°16'57" Y MM	256.5	Y PTM	1579.425	Loc. Method		
Prov. Code	CAV CAVITE	Gr. Elev	193.00	Accu.			
Addr/Owner	RCY. BULIHAN, SILANG		SILANG WATER DISTRICT				
Mun. Code	SIL SILANG	Year	1990	Pop	93,790		
Egy. Code	049 Bulihan	U	Pop	2,903			

SCREEN 2: WELL CONSTRUCTION DATA

PMDSI FS REPORT

Borehole Depth # (mm)	Casing # (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
182.9	200		0.00	182.9	UN			58.0	61.0
					UN			64.0	70.0
					UN			73.0	74.5
					UN			80.8	82.3
					UN			96.0	102.0
					UN			105.0	108.0
					UN			134.0	137.1
					UN			141.7	144.7
					UN			163.1	166.1

Comp Date	05/14/83	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack # (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	37.78	MSL	155.22				

SCREEN 3: STRATA LOG DATA

PMDSI FS REPORT

Driller	DCA	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs
	Code		Brief Description of Penetrated Strata
9.0	S1S2g		FINE TO MED. GRAINED SAND WITH GRAVEL
15.0	S1S2i		FINE TO MED. GRAINED SAND WITH A SILT
38.0	K SSi		CONGLOMERATE SANDSTONE WITH SILT
45.0	C		STICKY CLAY W/ FINE GRAINS
84.0	SSPuc		SANDSTONE, VOLCANIC PUMICE W/SILTY CLAY
93.0	C i G		SILTY CLAY, GRAVEL CHIPS
114.0	SSpug		PUMICEOUS SANDSTONE WITH GRAVEL CHIPS
130.0	C		STICKY CLAY WITH FINE GRAINS
146.0	C g		STICKY CLAY WITH SOME GRAVEL CHIPS
175.0	C t w		STICKY CLAY WITH VOLCANIC TUFFACEOUS
182.9	C		STICKY CLAY, FINE GRAINS

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. TSW (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PMDSI FS REPORT

Date	05/12/83	By	DR	Drawdn.	Recov.
Duration (min)	1200	Trans. (m ² /sec*10 ⁻³)	4.60	2.30	
Discharge (l/s)	6.30	OBSERVATION WELL NO.			
Total Drawdown (m)	16.90	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	0.3	Leakage (s ⁻¹ *10 ⁻¹⁰)			
Well Potential	MEDIUM	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. µS/cm	Hg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁼	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁼	O ₂
Alkalinity	Na ⁺	SO ₄ ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)			M.P. ab. Ground		Period. m.		
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

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31621-0632

SCREEN 1: LOCATION

PGDB No	31621-0632	Source	PHDSI FS REPORT			Local No	
Other No	PRODUCTION WELL #3		Basin				
Longitude	120°58'35" X PM	487.1	X PTM	497.452	Basin Area		
Latitude	14°13'06" Y PM	114.4	Y PTM	1572.327	Loc. Method		
Prov. Code	CAV CAVITE		Gr. Elev	320.00	Accu.		
Addr/Owner	BGY. IBA, SILANG		SILANG WATER DISTRICT				
Mun. Code	SIL SILANG		Year	1990	Pop	93,790	
Rgy. Code	015 Iba		U	Pop 2,541			

SCREEN 2: WELL CONSTRUCTION DATA

PHDSI FS REPORT

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
170.7	250		0.00	170.7	UM			48.8	146.0
Comp Date	01/09/85	Level		Own'p		Type		Use	
Operating?		Life. Device		Gravel Pack (mm)	-				
M.P. ab. Ground (m)	0.25	Static WL (mbmp)	59.75		MSL	260.50			

SCREEN 3: STRATA LOG DATA

PHDSI FS REPORT

Driller	Drill. Method		Described by		
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs		
Code	Brief Description of Penetrated Strata			Perm. Class	
2.4	C	BROWNISH CLAY			I
3.7	B	BOULDER			
10.7	C	BROWNISH CLAY WITH ADOBE			S
12.2	C	BROWNISH CLAY			I
18.3	A	ADOBE ROCK			
32.1	C	BROWNISH CLAY			I
42.7	C # i	CLAY WITH SAND AND SILT			S
45.7	C	BROWNISH CLAY			I
51.8	C # i	GRAYISH CLAY WITH SAND AND SILT			S
88.4	C	STICKY CLAY			I
97.6	Stc	FINE SAND WITH CLAY			S
100.6	A	ADOBE ROCK			
105.2	S1S3c	FINE TO COARSE SAND WITH CLAY			S
108.2	C	CLAY			I
114.3	S1S3c	FINE TO COARSE SAND WITH CLAY			S
125.0	C	BROWN STICKY CLAY			I
141.8	S1S3c	FINE TO COARSE SAND WITH CLAY			S
143.3	C	BROWNISH CLAY			I
152.4	S1S3c	FINE TO COARSE SAND WITH CLAY			S
155.6	C	BROWNISH CLAY			I
161.6	S2S3c	MEDIUM TO COARSE SAND WITH CLAY			S
170.7	C	BROWN STICKY CLAY			I

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Edw (m)		Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PHDSI FS REPORT

Date	12/22/89	By	OT	Drawda.	Recov.
Duration (min)	270	Trans. (m ² /sec*10 ⁻³)	4.69	1.33	
Discharge (l/s)	7.17	OBSERVATION WELL NO.			
Total Drawdown (m)	6.12	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	1.1	Leakage (s ⁻¹ *10 ⁻¹⁰)			
Well Potential	MEDIUM	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. µS/CM	Mg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁼	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁼	O ₂
Alkalinity	Na ⁺	SO ₄ ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

PHDSI FS REPORT

Measuring Pt. (M.P)	M.P. ab. Ground		0.00	Period. m.	No		
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL
01/09/85	59.75	No	260.25				
06/12/86	64.75	No	255.25				
02/04/89	63.75	No	256.25				
12/23/89	64.08	No	255.92				
06/10/90	65.74	No	254.26				

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

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31621-0633

SCREEN 1: LOCATION

PGDB No	31621-0633	Source	PHDSI FS REPORT			Local No	
Other No	PRODUCTION WELL #2		Basin				
Longitude	120°58'01" X NY	466.8	X PTH	496.434	Basin Area		
Latitude	14°17'55" Y NY	292.1	Y PTH	1581.208	Loc. Method		
Prov. Code	CAV CAVITE		Gr. Elev	330.00	Accu.		
Addr/Owner	BCY. LUCSUBIN, SILANG		SILANG WATER DISTRICT				
Mun. Code	SIL SILANG		Year	1990	Pop	93,790	
Bgy. Code	022 Lucsubin		R	Pop		1,824	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
246.0	250		0.00	246.0	UN			48.0	66.0
					UN			83.0	86.0
					UN			93.0	96.0
					UN			103.0	106.0
					UN			108.0	114.0
					UN			119.0	122.0
					UN			124.0	127.0
					UN			129.0	132.0
					UN			141.0	144.0
					UN			146.0	149.0

Comp Date	05/17/83	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack ϕ (mm)					
M.P. ab. Ground (m)	0.25	Static WL (mbwp)	54.43	HSL	275.82				

SCREEN 3: STRATA LOG DATA

Driller	Form.	F. Area	Logs	Drill. Method	Described by	Perm. Class
					Brief Description of Penetrated Strata	
5.0	C				BROWNISH CLAY	I
10.0	A				ADOBE	
12.0	C S				GRAVEL AND SAND	
15.0	A				ADOBE	
43.0	A c				BLACK ADOBE WITH CLAY	S
45.0	S G				SAND AND GRAVEL	
50.0	C a g				CLAY WITH SAND AND GRAVEL	S
54.0	A a				ADOBE WITH SAND	
69.0	C a				CLAY WITH SAND	S
86.0	A c				ADOBE WITH CLAY	S
88.0	G c a				GRAVEL WITH CLAY ADOBE	S
98.0	B a				BOULDERS WITH ADOBE	S
139.0	A a g				BLACK ADOBE WITH SAND & GRAVEL	
163.0	A c				ADOBE WITH CLAY	S
181.0	S				SAND	
184.0	A c				ADOBE WITH CLAY	S
189.0	A a				ADOBE WITH SAND	
202.0	A c				ADOBE WITH CLAY	S
212.0	S				SAND	
226.0	A c				ADOBE WITH CLAY	S
229.0	A a				BLACK ADOBE WITH SAND	
242.0	A c				ADOBE WITH CLAY	S
244.0	C				CLAY	I
246.0	B				BOULDERS	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

PHDSI FS REPORT

Date	05/10/90	By		No Steps / Duration (min)	3 / 90
Q Max (l/s)	11.67	Transmissiv. (m ² /sec*10 ⁻³)			
Total Spec. Drawd. X _{60w} (m)	12.76	Aquifer Loss Coef. B(sec/m ²)			
Specific Capacity (l/s/m)	0.91	Well Loss Coef. -C(sec ² /m ⁵)			
		300000			

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PHDSI FS REPORT

Date	12/20/89	By		Drawdn.	Recov.
Duration (min)	300	Trans. (m ² /sec*10 ⁻³)			
Discharge (l/s)	15.90	OBSERVATION WELL NO.			
Total Drawdown (m)		Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)		Leakage (*10 ⁻¹⁰)			
Well Potential		Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	DOOR
Color	Ca++	NH4+	NO3-	CO2
Cond. μ S/cm	Hg++	Zn++	NO2-	RZS
Temp °C	Mn++	Cu++	CO3-	CH4
Turbidity	Fe++	NO3-	PO4u	O2
Alkalinity	Nu+	S04-	F-	B
T. Hardness	K+	Cl-	SI02	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

PHDSI FS REPORT

Measuring Pt. (M.P.)	M.P. ab. Ground		0.00	Period. m.	No		
Date	GW Level BHP (m)	SWLT	GW Level MSL	Date	GW Level BHP (m)	SWLT	GW Level MSL
05/17/83	54.43	No	275.57				
06/12/86	72.10	No	257.90				
02/23/89	67.50	No	262.50				
12/20/89	68.55	No	261.45				
05/10/90	67.14	No	262.86				

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

FORM 139

31621-0634

SCREEN 1: LOCATION

PCDB No	31621-0634	Source	AQUA-DYNE		Local No	
Other No		Basin				
Longitude	120°49'55" X MM	176.3	X PTM	481.868	Basin Area	
Latitude	14°17'23" Y MM	272.4	Y PTM	1580.231	Loc. Method	FLO
Prov. Code	CAV CAVITE		Cr. Elev	90.00	Accu.	AL
Addr/Owner	BGY. TANAUAN, TANZA		CHUNG FU TEXTILE CO.			
Mun. Code	TAN TANZA	Year	1990	Pop	61,785	
Egy. Code	024 Tanauan	R		Pop	444	

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE											
Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)		
122.0	300	200	0.00	122.0	UN			53.0	59.0		
					UN			65.0	89.0		
					UN			107.0	116.0		
Comp Date	03/16/90	Level		Own'p		Type		Use			
Operating?		Lift. Device		Gravel Pack (mm)							
N.P. ab. Ground (m)		Static WL (mbmp)		MSL							

SCREEN 3: STRATA LOG DATA

AQUA-DYNE												
Driller	Drill. Method			Described by								
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs									
Code	Brief Description of Penetrated Strata										Perm. Class	
13.0	SHa	SANDY SILTSTONE										
15.0	C	CLAY										
20.0	SSc	DARK GRAY TUFF. SANDSTONE, FN TO MED. GRAINED										
31.0	K c S3	TUFF. CONGLOMERATE, COARSE SAND, FINE GRAVEL										
41.0	SS1	SILTY SANDSTONE, FINE TO MEDIUM GRAINED										
47.0	P S3	FINE PEBBLES, COARSE SAND										
61.0	SH1	SILTY CLAYSTONE										
71.0	SSp	SANDSTONE, COARSE GRAINED, PEBBLY										
81.0	SH1 s	BROWN SILTY SANDY CLAYSTONE										
102.0	C =	SANDY CLAY										
111.0	C = 1	SANDY SILTY CLAY										
122.0	C	CLAY										

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)				Aquifer Loss Coef. B (sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. - C (sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (a-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date		pH		TDS		TSS		ODOR	
Color		Ca ⁺⁺		MH4 ⁺		NO3 ⁻		CO2	
Cond. µS/cm		Mg ⁺⁺		Zn ⁺⁺		NO2 ⁻		H2S	
Temp °C		Mn ⁺⁺		Cu ⁺⁺		CO3 ⁼		CH4	
Turbidity		Fe ⁺⁺		HCO3 ⁻		PO4 ⁼		O2	
Alkalinity		Na ⁺		SO4 ⁼		F ⁻		B	
T. Hardness		K ⁺		Cl ⁻		SI02		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

140

31621-0635

SCREEN 1: LOCATION

FGDB No	31621-0635	Source	POWER SUPPLY (PSWMC)	Local No	
Other No	WELL #1	Basin			
Longitude	120°53'13" X MM	294.6	X PTH	487.801	Basin Area
Latitude	14°16'12" Y MM	228.8	Y PTH	1578.045	Loc. Method
Prov. Code	CAV CAVITE	Gr. Elev	168.00	Accu.	AL
Addr/Owner	LA PAZ ROMES, TRECE MARTIRES CAVITE DEV. CORP.				
Mun. Code	TRECE MARTIRES CITY	Year	1990	Pop	15,686
Bgy. Code		Pop			0

SCREEN 2: WELL CONSTRUCTION DATA

PSWMC

Borehole Depth (m)	Casing (mm)	Type	Top (m)	Bot (m)	Screen Type	Perf	Slot (mm)	Top (m)	Bot (m)
182.0	400	BI	0.00	182.0	ST	WW		101.0	107.0
250.0	350	BI	182.0	250.0	ST	WW		125.0	131.0
					ST	WW		143.0	146.0
					ST	WW		161.0	176.0
					ST	WW		188.0	194.0
					ST	WW		206.0	224.0
					ST	WW		230.0	236.0

Comp Date	01/15/93	Level		Own'p	PRI	Type	DN	Use
Operating?	Y	Lift. Device		Gravel Pack (mm)				
M.P. ab. Ground (m)	0.53	Static WL (mbmp)	14.28	HSL				154.25

SCREEN 3: STRATA LOG DATA

PSWMC

Driller	POWER SUPPLY (PSWMC)	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs
	Code	Brief Description of Penetrated Strata	
6.0	S1c	TUFFACEOUS SILTY FINE GRAINED SAND	
10.0	C	REDDISH BRWON CLAY	
12.0	T	BROWN HARD TUFF	
15.0	C	BROWN CLAY	
37.0	S1S2	BROWN FINE TO MEDIUM GRAINED SAND	
40.0	C	BROWN CLAY	
106.0	S1S2	DARK GRAY FINE TO MED. GRAIN SAND	
123.0	C s	DARK GRAY SANDY CLAY	
178.0	S i c	GRAINED CLAYEY SILTY SAND	
201.0	C s	DARK GRAY SANDY CLAY	
244.0	S i c	DARK GRAY CLAYEY SILTY SAND	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

PSWMC

Date	01/20/93	By		No Steps / Duration (min)	4/40
Q Max (l/s)			13.30	Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)			17.00	Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)			0.78	Well Loss Const. -C(sec ² /m ⁵)	0

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PSWMC

Date	01/17/93	By	DR	Drawda.	Recov.
Duration (min)			2880	Trans. (m ² /sec*10 ⁻³)	9.15 2.86
Discharge (l/s)			12.50	OBSERVATION WELL NO.	
Total Drawdown (m)			16.79	Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)			0.7	Leakage (s-1*10 ⁻¹⁰)	
Well Potential			GOOD	Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

LA PAZ ROMES

Samp. Date	10/21/93	pH	7.55	TDS	326.00	TSS		ODOR	
Color	10	Ca ⁺⁺		NH ₄ ⁺		NO ₃ ⁻	0.1	CO ₂	8.80
Cond. µS/cm		Mg ⁺⁺		Zn ⁺⁺		NO ₂ ⁻		H ₂ S	
Temp °C		Mn ⁺⁺		Cu ⁺⁺		CO ₃ ⁼		CH ₄	
Turbidity	11.30	Fe ⁺⁺	0.40	HCO ₃ ⁻	364	PO ₄ ⁼		O ₂	
Alkalinity	298.0	Na ⁺		SO ₄ ⁼	6.57	F ⁻	0.4	B	
T. Hardness	222	K ⁺		Cl ⁻	15	SiO ₂		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (N.P.)			M.P. ab. Ground			Period. m.		
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL	

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31621-0636

31621-0636

SCREEN 1: LOCATION

PGDB No	31621-0636	Source	AQUA-DYNE		Local No	
Other No		Basin				
Longitude	120°31'25" X NM	230.1	X PTH	484.565	Basin Area	
Latitude	14°17'27" Y NM	274.9	Y PTH	1580.352	Loc. Method	
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.	
Addr/Owner	DON BOSCO EXECUTIVE VILLAGE					
Mun. Code	TRE TRECE MARTIRES CITY		Year	1990	Pop	15,686
Rgy. Code					Pop	0

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type/Perf	Slot (mm)	Top (mbg)	Bot (mbg)
182.0	355	200	0.00	182.0	UN		74.0	92.0
					UN		122.0	140.0
					UN		146.0	158.0
					UN		164.0	176.0
Comp Date	09/07/93	Level		Ova'p	Type		Use	
Operating?		Lift. Device		Gravel Pack ϕ (mm)				
M.P. ab. Ground (m)		Static WL (mbap)				HSL		

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	Form.	F. Area	Logs	Described by	Perm. Class
Depth to Underside of Layer (mbg)	Code	Brief Description of Penetrated Strata			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. ($m^2/sec \cdot 10^{-3}$)	
Total Spec. Drawd. Essw (m)		Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. ($m^2/sec \cdot 10^{-3}$)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage ($\cdot 10^{-3}$)	
Sp. Cap. End Test (l/s/m)		Leakage ($s \cdot 10^{-10}$)	
Well Potential		Trans. ($m^2/sec \cdot 10^{-3}$)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. $\mu S/cm$	Mg++	Zn++	NO2-	H2S
Temp °C	Hn++	Cu++	CO3-	CH4
Turbidity	Fe++	HCO3-	PO4m	O2
Alkalinity	Na+	SO4-	F-	B
T. Hardness	K+	Cl-	SI02	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		H.P. ab. Ground		Period. m.	
Date	GW Level BMP (m) SWL?	GW Level MSL	Date	GW Level BMP (m) SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31622-0601

SCREEN 1: LOCATION

PUB No	31622-0601	Source	MENDEZ WD		Local No	
Other No		Basin				
Longitude	120°54'08 X MM	327.7	X PTM	489.443	Basin Area	
Latitude	14°07'32 Y MM	278.0	Y PTM	1562.065	Loc. Method	FLO
Prov. Code	CAY CAVITE		Gr. Elev	522.00	Accu.	AL
Addr/Owner	ALPONSO RD., GALICIA, MENDEZ		MENDEZ WATER DISTRICT			
Mun. Code	HEN MENDEZ		Year	1990	Pop	17,652
Rgy. Code	003 Galicia		U	Pop	3,245	

SCREEN 2: WELL CONSTRUCTION DATA

MENDEZ WD

Borehole Depth	Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slit (mm)	Top (mbg)	Bot (mbg)
152.4		200	BI	0.00	152.4	UN			112.6	134.1
243.9		150	BI	146.3	189.0	UN			137.1	146.3
						UN			146.3	164.6
						UN			170.7	182.9

Comp Date	12/12/92	Level	3	Dwa'p	PUB	Type		Use	
Operating?	Y	Lift. Device	SP	Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmg)	87.20	MSL	434.80				

SCREEN 3: STRATA LOG DATA

MENDEZ WD

Driller	D. V. SALUD CONST.		Drill. Method	Described by		
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Code	Brief Description of Penetrated Strata	Perm. Class
6.1	C t				LIGHT BROWN TUFFACEOUS CLAY	
27.4	SHg t				GRAVELLY CHIPS OF LIGHT BROWN TUFFACEOUS SHALE	
45.7	T c 51				GRAYISH BROWN CLAYEY TUFF WITH FINE SAND	
61.0	SHc				SUB-ROUNDED CHIPS OF LIGHT BROWN TUFF. SHALE	
79.3	T SH				ANG. CHIPS OF DARK GRAY SANDY TUFF	
85.4	SHc				SUB-ANG. TO RIMMED CHIPS OF TUFFACEOUS SHALE	
103.7	T e				SUB-ANG. TO SUB-ROUNDED CHIPS OF SANDY TUFF	
110.4	SHc				ANG. CHIPS OF OLIVE GRAY TUFFACEOUS SHALE	
134.2	T e				ANG. TO SUB-ANG. CHIPS OF SANDY TUFF	
143.3	SHc				ANG. CHIPS OF OLIVE GRAY SANDY SHALE	
161.6	T e				ANGULAR CHIPS OF SANDY TUFF	
173.2	SHg				GRAVELLY CHIPS OF LIGHT BROWN SHALE	
179.9	T e				ANG. TO SUB-ANG. CHIPS OF SANDY TUFF	
193.6	SHc				ANG. CHIPS OF LIGHT BROWN SHALE WITH CLAY	
218.0	SHc				ANG. CHIPS OF TUFFACEOUS SHALE	
234.8	C t				SUB-ANG. CHIPS OF LIGHT BROWN TUFFACEOUS CLAY	
243.9	Tie				ANG. CHIPS OF OLIVE GRAY FINE SANDY TUFF	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawn. Raw (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawn. Recor.	
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (e-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	MH4 ⁺	NO3 ⁻	CO2
Cond. µS/cm	Hg ⁺⁺	Zn ⁺⁺	NO2 ⁻	H2S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO3 ⁼	CR6
Turbidity	Fe ⁺⁺	NO3 ⁻	PO4 ⁼	O2
Alkalinity	NH ⁺	SO4 ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Date	Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.		
	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31622-0602

31622-0602

SCREEN 1: LOCATION

FGDN No	31622-0602			Source				Local No			
Other No	WELL #3			Basin							
Longitude	120°56'01	X NM	395.3	X PTM	492.831	Basin Area					
Latitude	14°06'34	Y NM	242.3	Y PTM	1560.281	Loc. Method	FLO				
Prov. Code	CAY CAVITE			Gr. Elev	625.00	Accu.	AL				
Addr/Owner	RPM BREEDER FARM, TAGAYTAY			RPM							
Mun. Code	TAG TAGAYTAY CITY			Year	1990	Pop	23,739				
Reg. Code				Pop	0						

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (m)	Casing (mm)	Type	Top (m)	Bot (m)	Screen Type	Perf	Slot (mm)	Top (m)	Bot (m)
71.6	250		0.00	71.6	UN			36.6	67.1
118.9	200		51.8	118.9	UN			70.1	88.4
213.4	150		115.9	213.4	UN			94.5	112.8
					UN			134.1	176.8
					UN			189.0	201.2
					UN			207.3	213.4

Comp Date	12/15/77	Level		Own'p		Type		Use	
Operating?	Y	Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		HSL					

SCREEN 3: STRATA LOG DATA

Driller	HURRICANE			Drill. Method	Described by	
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Perm. Class		
45.7	S1c			GRAY TUFFACEOUS FINE SAND		
85.4	SS			MEDIUM HARD POROUS SANDSTONE		
122.0	C S G			BROWNISH GRAY CLAY OF COARSE SAND AND GRAVEL		
137.2	T			SOFT POROUS TUFF		
152.4	SSS3			CAVERNOUS SANDSTONE OF COARSE SAND		
183.0	SSS3			MED. HARD SANDSTONE COARSE SAND		
198.0	T			HARD BLACK TUFF		
213.4	SSe			SANDSTONE FINE SAND		

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)		Aquifer Loss Conf.(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const.-C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Hg++	Zn++	NO2-	H2S
Temp °C	Na++	Cu++	CO3-	CH4
Turbidity	Fe++	HCO3-	PO4m	O2
Alkalinity	Na+	SO4-	F-	B
T. Hardness	K+	Cl-	SI02	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31622-0603

SCREEN 1: LOCATION

Page No	31622-0603	Source	AQUA-DYNE			Local No	
Other No	Basin						
Longitude	120°51'35" X MM	236.2	X PTM	484.851	Basin Area		
Latitude	14°04'28" Y MM	164.8	Y PTM	1556.413	Loc. Method		
Prov. Code	CAV CAVITE			Gr. Elev	0.00	Accu.	
Addr/Owner	SMC TRAINING CENTER			SMC			
Mun. Code	TAG TAGAYTAY CITY			Year	1990	Pop	
23,739				Pop	0		

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type/Perf	Slot (mm)	Top (mbg)	Bot (mbg)
158.0	250		0.00	0.0				
Comp Date	01/16/90	Level		Own'p	Type			Use
Operating?		Lift. Device		Gravel Pack (mm)				
M.P. ab. Ground (m)		Static WL (mbmp)		MSL				

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	MIGUEL WELL DRILLING	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs
Code	Brief Description of Penetrated Strata		Perm. Class

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Z _{50%} (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (s ⁻¹ *10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Mg++	Zn++	NO2-	N25
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SIO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)			M.P. ab. Ground			Period. m.		
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL	

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

63 11 1994

31622-0604

SCREEN 1: LOCATION

PGDB No	31622-0604	Source	AQUA-DYNE			Local No	
Other No		Basin					
Longitude	120°52'17	X MM	261.3	X PTM	486.111	Basin Area	
Latitude	14°05'05	Y MM	187.6	Y PTM	1557.549	Loc. Method	
Prov. Code	CAV CAVITE		Cr. Elev	0.00	Accu.		
Addr/Owner	TAGAYTAY ROYALE						
Mun. Code	TAG TAGAYTAY CITY		Year	1990	Pop	23,739	
Egy. Code					Pop	0	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
120.6	250		0.00	120.4	UN			103.7	120.6
210.4	200		103.7	210.4	UN			182.9	210.4

Comp Date	03/12/93	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		MSL					

SCREEN 3: STRATA LOG DATA

Driller	Drill. Method	Described by

Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Perm. Class

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. E _{sw} (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (a-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	IDS	TSS	ODOR
Color	Cu++	NH4+	NO3-	CO2
Cond. µS/cm	Hg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)			M.P. ab. Ground			Period. m.	
Date	GW Level BHP (m)	SWL?	GW Level NSL	Date	GW Level BHP (m)	SWL?	GW Level NSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31624-0601

SCREEN 1: LOCATION

PNDR No	31624-0601	Source	AQUA-DYNE			Local No	
Other No		Basin					
Longitude	120°40'27" X MM	374.7	X PTN	466.843	Basin Area		
Latitude	14°16'42" Y MM	247.2	Y PTN	1578.989	Loc. Method		
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.		
Addr/Owner	PUERTO AZUL, PALICPICAN		TERNATE DEV. CORP.				
Man. Code	TER TERNATE		Year	1990	Pop	11,981	
Egy. Code					Pop		0

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
183.0	350	200	0.00	180.0	UN			88.0	92.0
					UN			95.0	102.0
					UN			108.0	114.0
					UN			126.0	132.0
					UN			138.0	141.0
					UN			153.0	156.0
					UN			168.0	174.0

Comp Date	/ /	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbg)		MSL					

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	PIWDC	Drill. Method	Described by	
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	
Code	Brief Description of Penetrated Strata		Perm. Class	
12.0	Sst	BROWN TUFACEOUS SANDSTONE, FINE GRAINED		
14.0	C #	BROWN SANDY CLAY		
18.0	Sst p	BROWN TUFF. SANDSTONE, MED. TO CRS, PEBBLY		
20.0	C #	BROWN SANDY CLAY		
48.0	Sst	BROWN TUFACEOUS SANDSTONE, MED. TO CRS.		
56.0	Sst c	TUFF. SANDSTONE, SLIGHTLY CLAYEY, MED. TO CRS.		
64.0	C	SLIGHTLY CLAYEY		
72.0	C #	BROWN SANDY CLAY		
76.0	Sst c	CLAYEY SANDSTONE FINE TO MEDIUM GRAINED		
90.0	Sst	TUFACEOUS SANDSTONE		
104.0	Sst	BROWN TUFACEOUS SANDSTONE FINE GRAINED		
116.0	C #	BROWN SANDY CLAY		
134.0	C # t	TUFACEOUS SANDY CLAY		
142.0	Sst c	BROWN TUFACEOUS CLAYEY SANDSTONE FINE TO CRS.		
148.0	C #	SLIGHTLY SANDY CLAY		
152.0	Sst	TUFACEOUS SANDSTONE FINE TO MEDIUM GRAINED		
180.0	C # t	TUFACEOUS SANDY CLAY FINE TO COARSE GRAINED		

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Rsw (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const.-C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawds.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (e-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPH or mg/l)

AQUA-DYNE

Samp. Date	01/15/90	pH	7.40	TDS		TSS		ODOR	
Color	12	Ca++	24.2	NH4+		NO3-		CO2	
Cond. µS/cm	6680	Mg++	15.0	Zn++		NO2-		H2S	
Temp °C	24.0	Na++		Cu++		CO3=		CH4	
Turbidity	5.00	Fe++	0.05	HCO3-		PO4=		O2	
Alkalinity	148.0	Na+		SO4=	224.00	F-		B	3.0
T. Hardness	1858	K+	0.6	Cl-	59	SiO2		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)			M.P. ab. Ground			Period. m.	
Date	GW Level BMP (m)	SWLT	GW Level HSL	Date	GW Level BMP (m)	SWLT	GW Level HSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31624-0602

SCREEN 1: LOCATION

PGDB No	31624-0602	Source	PSWMC	Local No	
Other No	PALICPICAN WELL #3		Basin		
Longitude	120°40'36" X MM	350.1	X PIM	465.111	Basin Area
Latitude	14°16'00" Y MM	221.4	Y PIM	1577.698	Loc. Method
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.
Addr/Owner	PALICPICAN, TERMATE		PUERTO AZUL LAND, INC.		
Mun. Code	TER TERMATE		Year	1990	Pop 11,981
Reg. Code					Pop 0

SCREEN 2: WELL CONSTRUCTION DATA

PSWMC

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
100.0	400	200	ST	0.00	100.0	ST WW	1.5	55.0	58.0
						ST WW	1.5	70.0	97.0

Comp Date	08/09/93	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack ϕ (mm)	3.0		57.0		
M.P. ab. Ground (m)		Static WL (mbmp)	5.80	HSL			-5.80		

SCREEN 3: STRATA LOG DATA

PSWMC

Driller	PSWMC	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs SP RS
Code	Brief Description of Penetrated Strata		Perm. Class
1.5	EA	TOP SOIL	
15.0	C a c	GRAVEL WITH FINE SAND, SLIGHTLY CLAYEY	
38.0	SS	FM TO VERY FM SANDSTONE WITH SHELL FRAGMENTS	
73.0	SS	VERY FINE SANDSTONE, DARK GRAY	
100.0	SSp	MED. TO CRS. SANDSTONE, SLIGHTLY PEBBLY	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

PSWMC

Date	08/06/93	By	OT	No Steps / Duration (min)	4/40
Q Max (l/s)		17.83	Transmissiv. (m ² /sec*10 ⁻³)		
Total Spec. Drawd. Edw (m)	38.23	Aquifer Loss Coef. B(sec/m ²)	6880.00		
Specific Capacity (l/s/m)	0.47	Well Loss Const. -C(sec ² /m ⁵)	146000		

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

PSWMC

Date	08/07/93	By	OT	Drawdn.	Recov.
Duration (min)	2880	Trans. (m ² /sec*10 ⁻³)	1.71	0.44	
Discharge (l/s)	4.85	OBSERVATION WELL NO.			
Total Drawdown (m)	38.88	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	0.1	Leakage (s-1*10 ⁻¹⁰)			
Well Potential	MEDIUM	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

PSWMC

Samp. Date	/ /	pH	6.45	TDS	224.00	TSS		ODOR	
Color		Ca++	42.8	NH4+		NO3-		CO2	
Cond. μ S/cm	330	Mg++	15.4	Zn++	0.64	NO2-		H2S	
Temp °C		Mn++	0.08	Cu++		CO3=		CH4	
Turbidity		Fe++		HCO3-	23	PO4=		O2	
Alkalinity	170.0	Na+		SO4=	5.41	F-		B	23.0
T. Hardness	132	K+		Cl-	15	SiO2		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P)			H.P. ab. Ground			Period. m.		
Date	GW Level BMP (m)	SHL?	GW Level HSL	Date	GW Level BMP (m)	SHL?	GW Level HSL	

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0602

SCREEN 1: LOCATION

PGDB No	31632-0602	Source	LWUA		Local No	
Other No	NHA WELL #1		Basin			
Longitude	120°57'08" X MM	434.9	X PTM	494.846	Basin Area	
Latitude	14°20'33" Y MM	20.3	Y PTM	1586.064	Loc. Method	
Prov. Code	CAV CAVITE		Cr. Elev	0.00	Accu.	
Addr/Owner	BGY. STO. CRISTO, DASHARINAS		DASHARINAS WATER DISTRICT			
Mun. Code	DAS DASHARINAS		Year	1990	Pop	136,556
Bgy. Code	048 Sto. Cristo (Barangay 3)		U	Pop	2,973	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
91.5	200		0.00	91.5	UN			71.6	74.7
183.0	150		91.5	183.0	UN			80.8	82.3
					UN			86.9	89.9
					UN			93.0	96.0
					UN			97.6	99.1
					UN			103.7	108.2
					UN			120.4	122.0
					UN			129.6	131.1
					UN			138.7	141.8
					UN			138.7	141.8

Comp Date	08/15/80	Level		Own'p		Type		Use	
Operating?	Y	Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	14.63	MSL	-14.63				

SCREEN 3: STRATA LOG DATA

Driller	SHAMROCK		Drill. Method		Described by	GS
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP RS		
	Code	Brief Description of Penetrated Strata				Perm. Class
6.1	G	GRAVEL (MEDIUM)				
18.3	G t c	GRAVEL WITH TUFF AND CLAY				
21.3	C t	CLAY WITH SOME TUFF				
24.4	C t	CLAY WITH TUFF				
27.4	T g c	GRAVELLY TUFF WITH SOME CLAY				
36.6	T g c	GRAVELLY TUFF				
39.6	T g c	GRAVELLY TUFF WITH SOME CLAY				
42.7	T v c	VOLCANIC TUFF WITH CLAY				
48.8	T v	VOLCANIC TUFF				
54.9	T v c	VOLCANIC TUFF WITH SOME STICKY CLAY				
61.0	T v ic	VOLCANIC TUFF WITH SOME SILTY CLAY				
64.0	C t	CLAY WITH SOME TUFF				
67.1	T g	GRAVELLY TUFF				
73.2	C t	CLAY WITH SOME TUFF				
79.3	C	STICKY CLAY				
85.4	C g	STICKY CLAY WITH SOME GRAVEL				
122.0	C	CLAY				
134.1	C	BROWNISH CLAY				
140.2	C t	CLAY WITH SOME TUFF				
152.4	C	CLAY				
155.5	C g	CLAY WITH SOME CHIPS OF GRAVEL				
158.5	C t v	CLAY WITH VOLCANIC TUFF				
176.8	C	CLAY				
182.9	C t v	CLAY WITH SOME VOLCANIC TUFF				

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Draw (m)				Aquifer Loss Conf.B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const.-C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	08/15/80	By		DR		Drawdn.	Recov.
Duration (min)				1440		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				18.30		OBSERVATION WELL NO.	
Total Drawdown (m)				19.20		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				0.9		Leakage (s-1*10 ⁻¹⁰)	
Well Potential						Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPH or mg/l)

Comp Date	08/15/80	Level		Own'p		Type		Use	
Operating?	Y	Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	14.63	MSL	-14.63				

Samp. Date	08/18/93	pH		TDS	281.00	TSS		ODOR	
Color	2	Ca++	34.0	NH4+		NO3-		CO2	
Cond. µS/cm	439	Mg++	19.0	Zn++		NO2-		H2S	
Temp °C	27.0	Mn++		Cu++		CO3-		CH4	
Turbidity	1.00	Fe++	0.30	HCO3-	231	PO4=		O2	
Alkalinity	190.0	Na+		SO4=	12.00	F-		B	
T. Hardness	161	K+		Cl-	32	SiO2		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)
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SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)
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PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0603

SCREEN 1: LOCATION

PDDB No	31632-0603	Source	LWUA	Local No	
Other No	NWA WELL #3		Basin		
Longitude	120°57'03 X MM	431.9 X PTM	494.696	Basin Area	
Latitude	14°20'18 Y MM	11.1 Y PTM	1585.603	Loc. Method	OLM
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.
Addr/Owner	AREA B, BAGONG BAYAN		DASHARINAS WATER DISTRICT		
Mun. Code	DAS DASHARINAS		Year	1990	Pop 136,556
Bgy. Code			Pop	0	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Stor (mm)	Top (mbg)	Bot (mbg)
91.5	200		0.00	91.5	UN			76.2	79.3
183.0	150		91.5	183.0	UN			82.3	85.4
					UN			97.6	100.6
					UN			102.1	105.1
					UN			115.8	118.9
					UN			126.5	129.6
					UN			138.7	141.8
					UN			144.8	146.3
					UN			149.4	150.9
					UN			164.8	166.2

Comp Date	10/11/80	Level		Own'p		Type		Use	
Operating?	Y	Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	32.01	MSL				-32.01	

SCREEN 3: STRATA LOG DATA

Driller	Form.	F. Area	Logs	Described by	GS
SHAMROCK			SP RS		
Depth to Underside of Layer (mbg)	Code	Brief Description of Penetrated Strata			Perm. Class
1.5	EA	TOP SOIL			
6.1	C c	GRAVEL WITH CLAY			
12.2	SSt	TUFFACEOUS SANDSTONE			
18.3	G SSt	GRAVEL WITH SOME TUFFACEOUS SANDSTONE			
24.4	C g	CLAY WITH SOME CHIPS OF GRAVEL			
33.5	T g	GRAVELLY TUFF			
54.9	G	GRAVEL			
61.0	G a	GRAVEL WITH SAND			
73.2	C	CLAY			
76.2	C t	CLAY WITH TUFF			
79.3	C t	CLAY WITH SOME TUFF			
85.4	T g c	GRAVELLY TUFF WITH SOME CLAY			
97.6	C	CLAY			
103.6	C a	SANDY CLAY			
112.8	S	SAND			
122.0	C a	CLAY WITH SAND			
128.0	T i a	TUFF WITH SILTY SAND			
134.1	G T c	GRAVEL AND TUFF WITH CLAY			
140.2	C	CLAY			
146.3	C g	CLAY WITH GRAVEL			
152.4	C t	CLAY WITH SOME TUFF			
158.5	C a	SANDY CLAY			
176.8	C t	CLAY WITH SOME TUFF			
182.9	C	CLAY			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	10/08/80	By	DR	Drawda.	Recov.
Duration (min)	1440			Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)	20.70	OBSERVATION WELL NO.			
Total Drawdown (m)	5.50	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	3.7	Leakage (a-1*10 ⁻¹⁰)			
Well Potential		Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	10/18/93	pH	TDS	268.00	TSS	ODOR
Color		Ca++ 32.0	NH4+		NO3-	CO2
Cond. µS/cm	418	Mg++ 18.0	Zn++		NO2-	H2S
Temp °C	26.0	Mn++ 0.20	Cu++		CO3=	CH4
Turbidity	0.60	Fe++ 0.30	HCO3-	210	PO4=	O2
Alkalinity	172.0	Na+	SO4=	9.00	F-	B
T. Hardness	155	K+	Cl-	26	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	M.P. ab. Ground		Period. m.				
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0604

SCREEN 1: LOCATION

PGDB No	31632-0604	Source	AQUA-DYNE		Local No	
Other No	WELL #2	Basin				
Longitude	120°56'55" X MM	427.1	X PTM	494.457	Basin Area	
Latitude	14°21'25" Y MM	52.3	Y PTM	1587.662	Loc. Method	
Prov. Code	CAV CAVITE	Gr. Elev	0.00	Accu.		
Addr/Owner	ORCHARD	STA. LUCIA REALTY				
Mun. Code	DAS DASHARINAS	Year	1990	Pop	136,556	
Pgy. Code		Pop	0			

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
183.0	200		0.00	183.0	UN			96.0	102.0
					UN			108.0	120.0
					UN			132.0	138.0
					UN			156.0	180.0

Comp Date	03/10/92	Level		Owa'p		Type		Use	
Operating?		Lift. Device		Gravel Pack ϕ (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		MSL					

SCREEN 3: STRATA LOG DATA

Driller	Drill. Method	Described by			
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP RS	Perm. Class
	Code	Brief Description of Penetrated Strata			
6.0	EA	TOP SOIL			
34.0	A	LIGHT GRAY ADOBE			
40.0	A	GRAY ADOBE			
46.0	S i	SILTY SAND			
58.0	i	BROWNISH GRAY, SILTY			
67.0	S i c	BROWN SILTY SAND, CLAYEY			
89.0	T i	BROWN WITH GRAY SPOTS LITHIC TUFF, SILTY			
122.0	S i	BROWNISH GRAY SILTY SAND			
131.0	T = i	SANDY TUFF, SILTY SAND			
154.0	T = i	SANDY TUFF, SILT			
158.0	T	LAPILLI TUFF			
172.0	T =	DARK GRAY SANDY TUFF, FINE TO MEDIUM GRAINED			
183.0	SS	SANDSTONE, MEDIUM GRAINED			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. X ₉₀ (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawds.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (s-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Sampl. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. μ S/cm	Hg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3-	CN4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4-	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (N.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

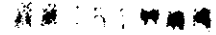
SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD



31632-0605

SCREEN 1: LOCATION

PGDR No	31632-0605	Source	AQUA-DYNE			Local No	
Other No	WELL #3	Basin					
Longitude	120°57'35" X MM	451.0	X PTM	495.656	Basin Area		
Latitude	14°21'30" Y MM	55.4	Y PTM	1587.815	Loc. Method		
Prov. Code	CAV CAVITE	Gr. Elev	0.00		Accu.		
Addr/Owner	ORCHARD	STA. LUCIA REALTY					
Mun. Code	DAS DASHARINAS	Year	1990	Pop	136,536		
Bgy. Code		Pop	0				

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE											
Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)		
183.0	200		0.00	183.0	UM			81.0	93.0		
					UM			99.0	105.0		
					UM			111.0	117.0		
					UM			123.0	135.0		
					UM			153.0	159.0		
					UM			171.0	177.0		
Comp Date	05/20/92	Level		Own'p		Type		Use			
Operating?		Lift. Device		Gravel Pack ϕ (mm)							
N.P. sb. Ground (m)		Static WL (mbmp)		MSL							

SCREEN 3: STRATA LOG DATA

AQUA-DYNE											
Driller	Drill. Method			Described by							
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP	RS	Perm. Class					
Brief Description of Penetrated Strata											

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. ($m^2/sec \cdot 10^{-3}$)			
Total Spec. Drawd. B&W (m)		Aquifer Loss Coef. B(sec/m ²)			
Specific Capacity (l/s/m)		Well Loss Const.-C(sec ² /m ⁵)			

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)		Trans. ($m^2/sec \cdot 10^{-3}$)			
Discharge (l/s)		OBSERVATION WELL NO.			
Total Drawdown (m)		Storage ($\cdot 10^{-3}$)			
Sp. Cap. End Test (l/s/m)		Leakage ($a \cdot 10^{-10}$)			
Well Potential		Trans. ($m^2/sec \cdot 10^{-3}$)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. μ S/cm	Mg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁼	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁼	O ₂
Alkalinity	Na ⁺	SO ₄ ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. sb. Ground		Period. m.			
Date	GW Level BMP (m)	SWL	GW Level MSL	Date	GW Level BMP (m)	SWL	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0606

SCREEN 1: LOCATION

PGDB No	31632-0606	Source	AQUA-DYNE	Local No	
Other No	WELL #10	Basin			
Longitude	120°58'36" X MH	487.4	X PTH	497.483	Basin Area
Latitude	14°21'35" Y MH	58.4	Y PTH	1587.969	Loc. Method
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.
Addr/Owner	ORCHARD		STA. LUCIA REALTY		
Mun. Code	DAS DASHARINAS		Year	1990	Pop
Pop			Pop	136,556	
Bgy. Code			Pop		0

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
182.0	200		0.00	182.0	UN			74.0	98.0
					UN			104.0	116.0
					UN			140.0	146.0
					UN			152.0	164.0
					UN			170.0	176.0
Comp Date	04/07/94	Level	Own'p	Type	Use				
Operating?	Lift. Device	Gravel Pack ϕ (mm)							
M.P. ab. Ground (m)	Static WL (mbmp)	HSL							

SCREEN 3: STRATA LOG DATA

Driller	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area
	Logs	SP RS
	Brief Description of Penetrated Strata	
	Perm. Class	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)
Total Spec. Drawd. Σ sw (m)		Aquifer Loss Coef. B(sec/m ²)
Specific Capacity (l/s/m)		Well Loss Const. C(sec ² /m ⁵)

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Temp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. μ S/cm	Mg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁻	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁻	O ₂
Alkalinity	Na ⁺	SO ₄ ⁻	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	M.P. ab. Ground	Period. m.
Date	GW Level BMP (m)	SWL7
	GW Level HSL	
	Date	GW Level BMP (m)
		SWL7
		GW Level HSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)
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SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)
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PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0607

SCREEN 1: LOCATION

FDDB No	31632-0607	Source	AQUA-DYNE		Local No	
Other No		Basin				
Longitude	120°56'05" X MM	397.2	X PTN	492.959	Basin Area	
Latitude	14°21'30" Y MM	67.7	Y PTN	1588.430	Loc. Method	
Prov. Code	CAY CAVITE		Gr. Elev	0.00	Accu.	
Addr/Owner	ACUIMALDO HI-WAY, SALITRAN		SAM MIGUEL YAMAHURA ASIA CORP.			
Mun. Code	DAS DASHARINAS		Year	1990	Pop	136,556
Reg. Code	012 Salitran		U	Pop	7,298	

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth (m)	Casing (mm)	Type	Top (m)	Bot (m)	Screen Type	Perf	Slot (mm)	Top (m)	Bot (m)
104.0	584	300	0.00	104.0	UN			114.0	120.0
200.0	353	250	104.0	200.0	UN			129.0	132.0
					UN			135.0	138.0
					UN			156.0	168.0
					UN			180.0	186.0
					UN			194.0	197.0

Comp Date	12/15/93	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		HSL					

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	Drill. Method	Described by

Depth to Underside of Layer (m)	Form. Code	F. Area	Logs	SP RS	Perm. Class

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (s-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	MH4 ⁺	NO3 ⁻	CO2
Cond. µS/cm	Mg ⁺⁺	Zn ⁺⁺	NO2 ⁻	H2S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO3 ⁼	CH4
Turbidity	Fe ⁺⁺	HCO3 ⁻	PO4 ⁼	O2
Alkalinity	Na ⁺	SO4 ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	M.P. ab. Ground	Period. m.
Date	GW Level BMP (m)	SWL
	GW Level HSL	Date
	GW Level BMP (m)	SWL
	GW Level HSL	Date

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

31632-0608

SCREEN 1: LOCATION

PGDB No	31632-0608	Source	LMUA	Local No	
Other No		Basin			
Longitude	120°55'50" X MH	388.3	X PTM	492.509	Basin Area
Latitude	14°20'01" Y MH	0.6	Y PTM	1585.081	Loc. Method
Prov. Code	CAVAVITE		Gr. Elev	0.00	Accu.
Addr/Owner	CAMERINO AVE., SAN JOSE		DASHARINAS WD (WOOD STATE PS)		
Mun. Code	DAS DASHARINAS		Year	1990	Pop 136,556
Bgy. Code	015 San Jose		U	Pop	3,390

SCREEN 2: WELL CONSTRUCTION DATA

LMUA

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
152.4									
Comp Date	02/08/92	Level		Own'p	Type		Use		
Operating?	Y	Lift. Device		Gravel Pack ϕ (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	18.29	HSL					-18.29

SCREEN 3: STRATA LOG DATA

LMUA

Driller	Drill. Method	Described by		
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Posm. Class
0.9	T v C		YELLOWISH BROWN VOL. TUFF, BROWN CLAY, TOPSOIL	
18.3	T v		YELLOWISH BROWN FRIABLE VOLCANIC TUFF	
45.7	G c SH		CLAYEY GRAVEL WITH BROWNISH SHALE	
61.0	SH v		SANDY SHALE WITH TRACES OF VOLCANIC CINDERS	
67.1	SS		SCORIFICIOUS SANDSTONE	
91.5	C s SS		SANDY GRAVEL WITH SHALE & PUMICEOUS SANDSTONE	
122.0	C s SH		FINE SANDY GRAVEL WITH TRACES OF SHALE	
152.4	C s		DARK SANDY CLAY	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)
Total Spec. Drawd. Zssw (m)		Aquifer Loss Coef. B(sec/m ²)
Specific Capacity (l/s/m)		Well Loss Const.-C(sec ² /m ⁵)

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

LMUA

Samp. Date	08/18/93	pH		TDS	328.00	TSS		ODOR	
Color		Ca++	42.0	NH4+		NO3-		CO2	
Cond. μ S/cm	513	Mg++	21.0	Zn++		NO2-		H2S	
Temp °C	26.0	Mn++	0.10	Cu++		CO3=		CH4	
Turbidity	0.60	Fe++	0.50	HCO3-	218	PO4=		O2	
Alkalinity	179.0	Na+		SO4=	11.00	F-		B	
T. Hardness	192	K+		Cl-	72	SiO2		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	M.P. ab. Ground	Period. m.					
Date	GW Level BHP (m)	SWL?	GW Level HSL	Date	GW Level BHP (m)	SWL?	GW Level HSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

PHILIPPINE GROUNDWATER DATABASE
WELL RECORD

32623-0601

SCREEN 1: LOCATION

PGDB No	32623-0601	Source	AQUA-DYNE			Local No	
Other No		Basin					
Longitude	121°00'40" X MM	23.9	X PTM	501.200	Basin Area		
Latitude	14°07'40" Y MM	282.9	Y PTM	1562.309	Loc. Method		
Prov. Code	CAV CAVITE			Gr. Elev	0.00	Accu.	
Addr/Owner	FOCOLARE COMPOUND						
Mun. Code	TAG TAGAYTAY CITY			Year	1990	Pop	23,739
Rgy. Code				Pop	0		

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
164.6	250	200	0.00	164.6	UN			103.7	164.6

Comp Date	/ /	Level	Own'p	Type	Use
Operating?		Lift. Device	Gravel Pack ϕ (mm)		
N.P. ab. Ground (m)		Static WL (mbmp)		HSL	

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	A-Z WATER COMPANY		Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Perm. Class
	Code	Brief Description of Penetrated Strata		
2.3	EA	TOP SOIL		
4.6	A	SOFT ADOBE		
9.1	A	ADOBE		
13.7	A	BLACK ADOBE		
15.6	SS	SANDSTONE		
19.8	S1	FINE SAND		
21.3	SS	HARD SANDSTONE		
36.6	A	HARD ADOBE		
42.7	A	ADOBE		
61.0	A	BLACK ADOBE		
62.5	A	SOFT ADOBE		
63.5	V	VOLCANIC ASH		
67.1	C v	VOLCANIC CLAY		
70.1	V	VOLCANIC ASH		
71.6	C s SS	SANDY CLAY WITH SANDSTONE		
73.2	C	CLAY		
78.5	SS	SANDSTONE		
85.0	A c	ADOBE WITH CLAY		
86.9	A	BLACK ADOBE		
88.4	C s	SANDY CLAY		
93.4	S1	FINE SAND		
100.6	C s	SANDY CLAY		
103.7	A	HARD ADOBE		
108.2	C s	SANDY CLAY		
109.8	SS	HARD SANDSTONE		
116.6	V	VOLCANIC ASH		
128.8	C v	VOLCANIC CLAY		
131.1	SS	SANDSTONE		
164.6	S1	FINE SAND		

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. ($m^2/sec \cdot 10^{-3}$)	
Total Spec. Drawd. Σh_w (m)		Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const. C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. ($m^2/sec \cdot 10^{-3}$)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage ($\cdot 10^{-3}$)	
Sp. Cap. End Test (l/s/m)		Leakage ($s \cdot 10^{-10}$)	
Well Potential		Trans. ($m^2/sec \cdot 10^{-3}$)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. $\mu S/cm$	Mg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁼	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁼	O ₂
Alkalinity	Na ⁺	SO ₄ ⁼	F ⁻	B
Y. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	N.P. ab. Ground		Period. m.
Date	GW Level BHP (m)	SWL?	GW Level MSL
Date	GW Level BHP (m)	SWL?	GW Level MSL
Date	GW Level BHP (m)	SWL?	GW Level MSL
Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0601

SCREEN 1: LOCATION

PCDB No	32624-0601	Source	HYDRO-WELLS		Local No	
Other No	WELL #1	Basin				
Longitude	121°03'50" X MH	137.5	X PTH	506.892	Basin Area	
Latitude	14°19'29" Y MH	349.9	Y PTH	1584.097	Loc. Method	
Prov. Code	CAV CAVITE	Gr. Elev	0.00	Accu.		
Addr/Owner	MADUYA, CARMONA	MOTOROLA PHILS., INC.				
Mun. Code	CAJ CARMONA	Year	1990	Pop	28,247	
Bgy. Code	010 Maduya	U	Pop	4,805		

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
200.0	350	200	0.00	194.0	BI	MP		71.0	77.0
					BI	MP		80.0	89.0
					BI	MP		92.0	95.0
					BI	MP		119.0	128.0
					BI	MP		137.0	140.0
					BI	MP		146.0	152.0
					BI	MP		155.0	158.0
					BI	MP		167.0	170.0
					BI	MP		182.0	185.0

Comp Date	04/23/90	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		MSL					

SCREEN 3: STRATA LOG DATA

Driller	HYDRO-WELLS	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Forw.	F. Area	Logs SP RS
	Code	Brief Description of Penetrated Strata	
19.0	X	UNKNOWN	
22.0	S	SAND	
29.0	S c	CLAYEY SAND W/ LITTLE PINES	
32.0	C S3R	CLAY, COARSE SAND/ANGULAR CHIPS OF ROCKS	
41.0	C R	CLAY W/TRACES OF COARSE ANG.VOLCANIC ROCKS	
45.0	C R	GRAY CLAY W/MIXTURE OF ANG.VOLCANIC ROCKS	
47.0	S1	BLACK FINE SAND	
49.0	C	CLAY	
50.0	S1	BLACK FINE SAND	
52.0	C	CLAY	
56.0	T v	TUFF W/TRACKS OF VOLCANIC FRAGMENTS	
59.0	SSc	TUFFACEOUS SANDSTONE	
60.0	S1	FINE SAND	
63.0	T	TUFF (CHALKY SILTY SATURATED SAND)	
73.0	T1	FINE GRAINED TUFF	
102.0	S3c	COARSE SAND W/CLAY	
104.0	S1	FINE SAND	
109.0	S1g	FINE SAND W/ GRAVEL	
115.0	A S	FINE GRAINED ADOBE/SAND	
119.0	S3	COARSE BLACK SAND	
128.0	S3	COARSE SAND	
133.0	S1g	FINE SAND W/POORLY SORTED GRAVEL	
141.0	S1g	SILTY SAND W/LITTLE GRAVEL	
150.0	G #	GRAVEL W/ COARSE SAND	
160.0	S1g	FINE SAND W/ GRAVEL	
163.0	S3	COARSE SAND	
171.0	S1g	FINE SAND W/GRAVEL	
185.0	S1	BLACK FINE SAND	
200.0	C g	CLAY W/ GRAVEL	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. X _{10w} (m)				Aquifer Loss Coef.B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const.-C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	04/19/90	By	DR	Drawda.	Recov.
Duration (min)	0	Trans. (m ² /sec*10 ⁻³)	3.70	7.88	
Discharge (l/s)	13.86	OBSERVATION WELL NO.			
Total Drawdown (m)	8.80	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	1.5	Leakage (s-1*10 ⁻¹⁰)			
Well Potential	MEDIUM	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	MH4+	NO3-	CO2
Cond. µS/cm	Mg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3-	CH4
Turbidity	Fe++	HCO3-	PO4w	O2
Alkalinity	Na+	SO4w	F-	B
T. Hardness	X+	Cl-	SI02	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.F)	M.P. ab. Ground		Period. m.				
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0602

SCREEN 1: LOCATION

PCDB No	32624-0602	Source	AQUA-DYNE		Local No	
Other No		Basin				
Longitude	121°03'15" X MM	116.5	X PTM	505.843	Basin Area	
Latitude	14°19'20" Y MM	344.4	Y PTM	1583.820	Loc. Method	
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.	
Addr/Owner	PEOPLE'S TEC. COMPLEX, CARMONA PHIL. SYNTHETIC					
Mun. Code	CAR CARMONA		Year	1990	Pop	28,247
Rgy. Code					Pop	0

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
122.0	250		0.00	122.0	UN			62.0	68.0
					UN			71.0	83.0
					UN			92.0	104.0
					UN			110.0	116.0

Comp Date	04/23/91	Level		Owa'p		Type		Use	
Operating?		Lift. Device		Gravel Pack ϕ (mm)					
M.P. ab. Ground (m)		Static WL (mbgp)		MSL					

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	SERCOM	Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form. Code	F. Area	Logs SP RS
			Brief Description of Penetrated Strata
22.9	C i =		CLAY, SILTY, SLIGHTLY SANDY
32.0	S i c		SAND, SILTY, SLIGHTLY CLAYEY
38.1	C		CLAY
42.7	T C P		TUFF, SANDY CLAY, PEBBLES SILTY
51.8	C i =		CLAY, SLIGHTLY SILTY, SANDY
59.4	S p i		SAND, PEBBLY, SILTY, SLIGHTLY CLAYEY
65.5	S3p		COARSE SAND, PEBBLY
76.2	S i		SAND, SILTY
82.3	C i =		CLAY, SILTY, SANDY
88.4	I c =		SILT, CLAYEY, SANDY, PEBBLY
94.5	S		SAND
103.7	S p		SAND, PEBBLY
109.8	S		SAND
114.3	S e c		SILT, SANDY, SLIGHTLY CLAYEY
118.9	S i		SAND, SILTY
122.0	I c =		SILT, CLAYEY, SLIGHTLY SANDY

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)
Total Spec. Drawd. Σ sw (m)		Aquifer Loss Coef. B(sec/m ²)
Specific Capacity (l/s/m)		Well Loss Const. -C(sec ² /m ⁵)

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. μ S/cm	Mg++	Zn++	NO2-	H2S
Temp °C	Hn++	Cu++	CO3=	CH4
Turbidity	Fe++	HC03-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P)		M.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

1 1 8 8

32624-0603

SCREEN 1: LOCATION

PCDB No	32624-0603	Source	PIWDC	Local No	
Other No		Basin			
Longitude	121°03'18 X MM	118.3 X PTM	505.933	Basin Area	
Latitude	14°19'18 Y MM	343.2 Y PTM	1583.759	Loc. Method	
Prov. Code	CAV CAVITE	Gr. Elev	0.00	Accu.	
Add/Owner	PEOPLE'S TECH. COMPLEX	PHIL. CARRAGEENAN MFG. CORP.			
Mun. Code	CAR CARHOMA	Year	1990	Pop	28,247
Rgy. Code		Pop			0

SCREEN 2: WELL CONSTRUCTION DATA

PIWDC

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
152.4									
Comp Date	04/30/93	Level		Own'p	Type		Use		
Operating		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		MSL					

SCREEN 3: STRATA LOG DATA

PIWDC

Driller	PIWDC	Drill. Method	Described by	GS
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	
	Code	Brief Description of Penetrated Strata		Perm. Class
9.1	T a	SANDY TUFF		
36.6	S	SAND		
48.8	S c	CLAYEY SAND		
110.0	S	SAND		
152.4	SS	SANDSTONE		

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Esaw (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (s*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date		pH		TDS		TSS		ODOR	
Color		Ca ⁺⁺		MH ⁴⁺		NO ₃ ⁻		CO ₂	
Cond. µS/cm		Mg ⁺⁺		Zn ⁺⁺		NO ₂ ⁻		H ₂ S	
Temp °C		Na ⁺⁺		Cu ⁺⁺		CO ₃ ⁻		CH ₄	
Turbidity		Fe ⁺⁺		NO ₃ ⁻		PO ₄ ⁼		O ₂	
Alkalinity		Na ⁺		SO ₄ ⁼		F ⁻		B	
T. Hardness		K ⁺		Cl ⁻		SiO ₂		Ph	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P.)			H.P. ab. Ground			Period. m.		
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0604

SCREEN 1: LOCATION

PGDB No	32624-0604	Source	PINDC			Local No	
Other No		Basin					
Longitude	121°03'20	X PM	119.5	X PIM	505.993	Basin Area	
Latitude	14°19'22	Y PM	345.6	Y PIM	1583.882	Loc. Method	
Prov. Code	CAV CAVITE			Gr. Elev	0.00	Accu.	
Addr/Owner	PEOPLE'S TECH. COMPLEX			RICO PHILS. MFG. CORP.			
Mun. Code	CAR CARROMA			Year	1990	Pop	28,247
Bgy. Code				Pop	0		

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
152.4									
Comp Date		08/09/91	Level		Own'p		Type		Use
Operating?			Lift. Device		Gravel Pack (mm)				
H.P. ab. Ground (m)			Static WL (mbmp)			MSL			

SCREEN 3: STRATA LOG DATA

Driller	PI WELL DRILLING	Drill. Method	Described by	GS
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	
15.2	T s			
22.4	S			
39.6	T a			
51.8	T c			
64.0	T a			
152.4	S t			
Brief Description of Penetrated Strata				
SANDY TUFF				
SAND				
SANDY TUFF				
CLAYEY TUFF				
SANDY TUFF				
TUFFACEOUS SAND				

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. X _{50%} (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)				Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)				OBSERVATION WELL NO.	
Total Drawdown (m)				Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)				Leakage (s ⁻¹ *10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Hg++	Zn++	NO2-	N2S
Temp °C	Mn++	Cu++	CO3-	CH4
Turbidity	Fe++	HCO3-	PO4m	O2
Alkalinity	Na+	SO4-	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P)		H.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

160

32624-0607

SCREEN 1: LOCATION

PGDB No	32624-0607	Source	HYDRO-WELLS			Local No	
Other No	WELL #7	Basin					
Longitude	121°02'31" X MM	90.2	X PTM	504.525	Basin Area		
Latitude	14°18'53" Y MM	327.8	Y PTM	1582.990	Loc. Method	FLO	
Prov. Code	CAV CAVITE			Gr. Elev	60.00	Accu.	AL
Addr/Owner	MANILA SOUTHWOODS, CARMONA			FIL-ESTATE GOLF & DEV. CORP.			
Mun. Code	CAR CARMONA			Year	1990	Pop	28,247
Bgy. Code				Year		Pop	0

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
60.0	450		0.00	60.0	UN			67.0	70.0
250.0	350	200	60.0	250.0	UN			73.0	76.0
					UN			82.0	85.0
					UN			91.0	94.0
					UN			124.0	130.0
					UN			143.0	146.0
					UN			176.0	179.0
					UN			199.0	211.0
					UN			217.0	226.0
					UN			241.0	244.0

Comp Date	12/14/92	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)	13.00	MSL	47.00				

SCREEN 3: STRATA LOG DATA

Driller	Form.	F. Area	Logs	SP RS	GS
Driller	HYDRO-WELLS				
Depth to Underside of Layer (mbg)	Code	Brief Description of Penetrated Strata			Perm. Class
14.0	C g	BROWN CLAY W/ GRAVEL			
21.0	A	GRAY ADOBE			
30.0	C a	GRAVEL W/ SAND			
35.0	A	HARD GRAY ADOBE			
37.0	C a	BROWN CLAY W/ SAND			
41.0	S g	BROWN SAND W/GRAVEL			
47.0	A	BROWN ADOBE			
52.0	A c	BROWN ADOBE W/ CLAY			
62.0	A	GRAY ADOBE			
65.0	A	BROWN ADOBE			
67.0	C	BROWN CLAY			
73.0	A	GRAY ADOBE			
81.0	A	BROWN ADOBE			
87.0	A	GRAY ADOBE			
104.0	C	BROWN CLAY			
110.0	C g	BROWN CLAY/GRAVEL			
117.0	C	BROWN CLAY			
133.0	C g	GRAY CLAY W/ GRAVEL			
152.0	A g	GRAY ADOBE W/ GRAVEL			
178.0	A c	BROWN ADOBE WITH CLAY			
180.0	C a	GRAY SANDY CLAY			
182.0	A	BROWN ADOBE			
216.0	A c	GRAY ADOBE W/ BROWN CLAY			
235.0	A	GRAY HARD ADOBE			
244.0	A	BROWN ADOBE			
250.0	A c	GRAY ADOBE WITH CLAY			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)				Aquifer Loss Coef. B (sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C (sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	12/14/92	By		DR		Drawdn.	Recov.
Duration (min)			0	Trans. (m ² /sec*10 ⁻³)			
Discharge (l/s)			22.70	OBSERVATION WELL NO.			
Total Drawdown (m)			1.50	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)			15.1	Leakage (s-1*10 ⁻¹⁰)			
Well Potential				Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/CM	Mg++	Zn++	NO2-	NZ5
Temp °C	Hn++	Cu++	CO3-	CH4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P)	M.P. ab. Ground	Period, m.					
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0611

32624-0611

SCREEN 1: LOCATION

PGDB No	32624-0611	Source	HYDRO-WELLS			Local No	
Other No	WELL # 8		Basin				
Longitude	121°02'35	X MW	92.6	X PTH	504.645	Basin Area	
Latitude	14°18'50	Y MW	326.0	Y PTH	1582.898	Loc. Method	
Prov. Code	CAY CAVITE		Gr. Elev	0.00		Accu.	
Addr/Owner	MAMILA SOUTHWOODS, CARMONA			FIL-ESTATE GOLF & DEV. CORP.			
Mun. Code	CAR CARMONA		Year	1990	Pop	28,247	
Reg. Code			Pop	0			

SCREEN 2: WELL CONSTRUCTION DATA

HYDRO-WELLS

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
61.0	350		0.00	61.0	UN			87.0	90.0
237.8	200		61.0	237.8	UN			114.0	117.0
					UN			130.0	133.0
					UN			136.0	139.0
					UN			159.0	172.0
					UN			175.0	178.0
					UN			181.0	184.0
					UN			188.0	191.0
					UN			198.0	201.0
					UN			223.0	226.0

Comp Date	02/26/93	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)		Static WL (mbmp)		4.20	MSL			-4.20	

SCREEN 3: STRATA LOG DATA

HYDRO-WELLS

Driller	HYDRO-WELLS		Drill. Method	Described by		GS
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP	RS	Perm. Class
2.1	EA		TOP SOIL			
4.9	C		GRAY CLAY			
11.9	C E		GRAY CLAY W/ GRAVEL			
20.1	C		GRAY CLAY			
24.1	C E		GRAY CLAY W/ GRAVEL			
29.9	C		GRAY CLAY			
34.1	C		GRAY GRAVEL			
47.0	C		GRAY CLAY			
56.1	C E		GRAY CLAY W/ GRAVEL			
61.9	C		GRAY STICKY CLAY			
88.1	C		GRAY CLAY			
108.0	A		GRAY HARD ADOBE			
111.0	C		BROWN CLAY			
114.0	C		GRAY STICKY CLAY			
115.8	A		BROWN ADOBE			
128.0	C		BROWN CLAY/ADOBE			
140.0	A		BROWN ADOBE			
152.1	C E		BROWN CLAY W/ GRAVEL			
154.9	C		BROWN STICKY CLAY			
157.0	A		GRAY ADOBE			
164.6	C		BROWN STICKY CLAY			
169.0	A		HARD ADOBE			
175.0	A		GRAY AND BROWN ADOBE			
200.0	A		BROWN ADOBE			
200.9	C		GRAY CLAY			
207.0	A		GRAY HARD ADOBE			
213.0	C		BROWN CLAY			
222.0	C		GRAY CLAY			
238.0	C E		GRAY CLAY W/GRAVEL			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. 266w (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

HYDRO-WELLS

Date	02/25/93	By		DR		Drawdn.	Recov.
Duration (min)			0	Tranz. (m ² /sec*10 ⁻³)			
Discharge (l/s)		26.00	OBSERVATION WELL NO.				
Total Drawdown (m)		17.30	Storage (*10 ⁻³)				
Sp. Cap. End Test (l/s/m)		1.5	Leakage (s-1*10 ⁻¹⁰)				
Well Potential			Trans. (m ² /sec*10 ⁻³)				

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Mg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	NaCO3-	PO4m	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)	M.P. ab. Ground		Period. m.				
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0605

SCREEN 1: LOCATION

PGDB No	32624-0605	Source	QMA WD		Local No	
Other No	Basin					
Longitude	121°00'16" X MM	9.6	X PTM	500.480	Basin Area	
Latitude	14°17'30" Y MM	276.8	Y PTM	1580.439	Loc. Method	FLO
Prov. Code	CAV CAVITE		Gr. Elev	180.00	Accu.	AL
Addr/Owner	TEACHER'S VILLAGE		QMA WATER DISTRICT			
Mun. Code	GEN GEN. M. ALVAREZ		Year	1990	Pop	65,977
Bgy. Code			Year		Pop	0

SCREEN 2: WELL CONSTRUCTION DATA

QMA WD

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
122.0	200		0.00	122.0	UN			51.8	57.9
213.4	150		122.0	213.4	UN			64.0	73.2
					UN			76.2	85.4
					UN			94.5	100.6
					UN			103.7	112.8
					UN			115.8	118.9
					UN			125.0	128.0
					UN			134.1	140.2
					UN			146.3	152.4
					UN			164.6	170.7

Comp Date	/ /	Level	Own'p	Type	Use
Operating?		Lift. Device	Gravel Pack (mm)		
M.P. ab. Ground (m)		Static HL (mbag)	55.00	MSL	125.00

SCREEN 3: STRATA LOG DATA

QMA WD

Driller	HYDRO-WELLS		Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP RS
Code				
Brief Description of Penetrated Strata				
Perm. Class				
3.0	C s			BROWNISH SANDY CLAY
16.8	SSt SH			TUFFACEOUS SANDSTONE, SANDY SHALE
19.8	SHs			SANDY SHALE
30.5	S i c			SILTY SAND, CLAYEY
39.6	SSt			TUFFACEOUS SANDSTONE, FINE TO MEDIUM
57.9	S1			VERY FINE SAND
63.7	SSt			TUFFACEOUS SANDSTONE WITH SHALE
74.5	S1			VERY FINE SAND
90.8	SSt			TUFFACEOUS SANDSTONE, FINE TO MEDIUM
109.8	S1c			FINE GRAINED SAND, TUFFACEOUS
112.8	S c			BROWNISH CLAYEY SAND
121.3	S1S2			FINE TO MEDIUM GRAINED SAND
149.4	S1			FINE GRAINED SAND
163.1	SSt			TUFFACEOUS SANDSTONE, MEDIUM TO FINE
178.4	SSt c			CLAYEY, TUFFACEOUS SANDSTONE
182.0	S1			FINE GRAINED SAND
213.4	SSt c			CLAYEY, TUFFACEOUS SANDSTONE

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)				Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

QMA WD

Date	/ /	By	DR	Drawdn.	Recov.
Duration (min)			0	Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)			6.30	OBSERVATION WELL NO.	
Total Drawdown (m)			47.00	Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)			0.1	Leakage (s-1*10 ⁻¹⁰)	
Well Potential				Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPH or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	MH4+	NO3-	CO2
Cond. µS/cm	Hg++	Zn++	NO2-	N2S
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	NO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P)		M.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level MSL	Date	GW Level BMP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

FORM 163 7/83

32624-0608

SCREEN 1: LOCATION

PCRB No	32624-0608	Source	PHDSI FS REPORT	Local No	
Other No	NWA WELL #3	Basin			
Longitude	121°00'06" X MM	3.6 X PTM	500.180	Basin Area	
Latitude	14°16'04" Y MM	223.9 Y PTM	1577.797	Loc. Method	
Prov. Code	CAV CAVITE	Gr. Elev	228.00	Accu.	
Addr/Owner	BCY. BULIHAN, SILANG	SILANG WATER DISTRICT			
Mun. Code	SIL SILANG	Year	1990	Pop	93,790
Bgy. Code	049 Bulihan	U	Pop	2,903	

SCREEN 2: WELL CONSTRUCTION DATA

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Slot (mm)	Top (mbg)	Bot (mbg)
91.3	200		0.00	91.3	UN		63.0	66.0
182.9	150		91.3	182.9	UN		74.0	80.0
					UN		84.0	87.0
					UN		114.0	120.0
					UN		132.0	138.0
					UN		143.0	144.5
					UN		149.0	150.5
					UN		164.0	165.5
					UN		175.0	176.5

Comp Date	04/26/83	Level		Own'p		Type		Use	
Operating?		Lift. Device		Gravel Pack (mm)					
M.P. ab. Ground (m)	0.75	Static WL (mbmp)	48.73	MSL	180.02				

SCREEN 3: STRATA LOG DATA

Driller	DCA	Drill. Method	Described by

Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Perm. Class
3.0	ZAC a			
39.5	S1			
42.7	SSpu			
54.9	S1S2S3			
57.9	C			
64.0	SSpu			
67.0	C			
77.7	T G			
91.4	G c			
96.0	PUg			
109.8	C			
125.0	K z			
144.7	C i SS			
146.3	C			
150.9	C i SS			
155.4	C			
163.1	C i SS			
173.7	C T			
176.8	K			
182.9	SSpu1			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)				Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. X6aw (m)				Aquifer Loss Conf. B(sec/m ²)	
Specific Capacity (l/s/m)				Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	04/22/83	By	DR	Drawdn.	Recov.
Duration (min)	2880			1.16	0.75
Discharge (l/s)	6.77	OBSERVATION WELL NO.			
Total Drawdown (m)	32.70	Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)	0.2	Leakage (s-1*10 ⁻¹⁰)			
Well Potential	MEDIUM	Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Sampl. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. µS/cm	Hg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3-	CH4
Turbidity	Fe++	NO3-	PO4m	O2
Alkalinity	Na+	SO4-	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P.)	M.P. ab. Ground	Period. m.					
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

32624-0609

175934

SCREEN 1: LOCATION

PCDB No	32624-0609	Source	PHDSI FS REPORT			Local No	175934
Other No			Basin				
Longitude	121°00'12 X NM	7.2 X PTM	300.360	Basin Area			
Latitude	14°14'47 Y NM	176.5 Y PTM	1575.430	Loc. Method			
Prov. Code	CAV CAVITE		Gr. Elev	270.00	Accu.		
Addr/Owner	BCY. KAONG, SILANG						
Mun. Code	SIL SILANG		Year	1990	Pop	93,790	
Egy. Code	018 Kaong		U	Pop		3,383	

SCREEN 2: WELL CONSTRUCTION DATA

PHDSI FS REPORT

Borehole Depth (m)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type/Perf	Slot (mm)	Top (mbg)	Bot (mbg)
32.0	100		0.00	0.0				
Comp Date	11/19/59	Level	Own'p	Type	Use			
Operating	Lift. Device	Gravel Pack (mm)						
H.P. ab. Ground (m)	Static WL (mbmp)		12.20	HSL	257.80			

SCREEN 3: STRATA LOG DATA

PHDSI FS REPORT

Driller	Drill. Method		Described by		
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	Perm. Class	
1.5	C	BROWN CLAY			I
13.7	A	ADOBE ROCK			S
21.3	1Ca	SANDY LOAM			I
27.7	C	BROWN STICKY CLAY			I
31.7	S3	COARSE SAND			
32.0	C	BROWN STICKY CLAY			

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)
Q Max (l/s)	Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. (m)	Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)	Well Loss Const. -C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)	Trans. (m ² /sec*10 ⁻³)		
Discharge (l/s)	OBSERVATION WELL NO.		
Total Drawdown (m)	Storage (*10 ⁻³)		
Sp. Cap. End Test (l/s/m)	Leakage (m*10 ⁻¹⁰)		
Well Potential	Trans. (m ² /sec*10 ⁻³)		

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca ⁺⁺	NH ₄ ⁺	NO ₃ ⁻	CO ₂
Cond. µS/cm	Mg ⁺⁺	Zn ⁺⁺	NO ₂ ⁻	H ₂ S
Temp °C	Mn ⁺⁺	Cu ⁺⁺	CO ₃ ⁼	CH ₄
Turbidity	Fe ⁺⁺	HCO ₃ ⁻	PO ₄ ⁼	O ₂
Alkalinity	Na ⁺	SO ₄ ⁼	F ⁻	B
T. Hardness	K ⁺	Cl ⁻	SiO ₂	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P.)		H.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWL?	GW Level HSL	Date	GW Level BMP (m)	SWL?	GW Level HSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

D W 1 0 1 1 1 1

32624-0610

176023

SCREEN 1: LOCATION

PGDS No	32624-0610	Source	PMDSI FS REPORT			Local No	176023
Other No							Basin
Longitude	121°00'30"	X MM	17.9	X PTM	500.899	Basin Area	
Latitude	14°13'25"	Y MM	126.1	Y PTM	1572.910	Loc. Method	
Prov. Code	CAV CAVITE			Gr. Elev	280.00	Accu.	
Addr/Owner	BCY. TIBIG, SILANG						
Mun. Code	SIL SILANG		Year	1990	Pop	93,790	
Rgy. Code	046 Tibig		U		Pop	1,323	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. 24sw (m)		Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const.-C(sec ² /m ³)	

SCREEN 2: WELL CONSTRUCTION DATA

PMDSI FS REPORT

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf (mm)	Slot (mm)	Top (mbg)	Bot (mbg)
51.8	100		0.00	0.0					

Comp Date	09/14/60	Lavel		Ovn'p		Type		Use
Operating?		Lift. Device		Gravel Pack ϕ (mm)				
M.P. ab. Ground (m)		Static WL (mbmp)	25.91	MSL	254.09			

SCREEN 3: STRATA LOG DATA

PMDSI FS REPORT

Driller		Drill. Method		Described by	
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs		Perm. Class
	Code				I
1.5	C	STICKY CLAY			
48.2	A	STONE ADOBE			
51.8	R	COARSE ROCK			

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. μ S/cm	Hg++	Zn++	NO2-	H2S
Temp °C	Mn++	Cu++	CO3=	CH4
Turbidity	Fe++	HCO3-	PO4=	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SI02	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BMP (m)	SWLT	GW Level MSL	Date	GW Level BMP (m)	SWLT	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD

FORM 166

32624-0606

SCREEN 1: LOCATION

PCDN No	32624-0606	Source	AQUA-DYNE			Local No	
Other No		Basin					
Longitude	121°00'43" X MM	25.7	X PTM	501.289	Basin Area		
Latitude	14°10'15" Y MM	9.2	Y PTH	1567.072	Loc. Method		
Prov. Code	CAV CAVITE		Gr. Elev	0.00	Accu.		
Addr/Owner	BGT. CABANGAAN, SILANG		BPM				
Mun. Code	SIL SILANG		Year	1990	Pop	93,790	
Bgy. Code	012 Cabangaan		R	Pop	729		

SCREEN 2: WELL CONSTRUCTION DATA

AQUA-DYNE

Borehole Depth ϕ (mm)	Casing ϕ (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
123.4									
Comp Date		/ /	Level	Own'p	Type	Use			
Operating?		Lift. Device	Gravel Pack ϕ (mm)						
M.P. ab. Ground (m)		Static WL (mbmp)		MSL					

SCREEN 3: STRATA LOG DATA

AQUA-DYNE

Driller	Drill. Method		Described by			
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	SP RS		
Code	Brief Description of Penetrated Strata			Perm. Class		
34.0	X				UNKNOWN	
42.0	C				CLAY, BROWN, SOFT, STICKY	
49.0	SS				SANDSTONE	
56.0	C s t				CLAY SLIGHTLY SANDY, TUFFACEOUS	
78.0	C				CLAY	
90.0	T				TUFF	
104.0	SSt				SANDSTONE, MED. TO CRS. GRAINED, TUFFACEOUS	
108.0	ACP				AGGLOMERATE, ANGULAR PEBBLES, FEW CINDERS	
119.0	SS1 t				SANDSTONE, FINE GRAINED SILTY, TUFFACEOUS	
123.4	AG				AGGLOMERATE	

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date	By	No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)	
Total Spec. Drawd. Elev (m)		Aquifer Loss Coef. B(sec/m ²)	
Specific Capacity (l/s/m)		Well Loss Const. C(sec ² /m ⁵)	

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date	By	Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)	
Discharge (l/s)		OBSERVATION WELL NO.	
Total Drawdown (m)		Storage (*10 ⁻³)	
Sp. Cap. End Test (l/s/m)		Leakage (s-1*10 ⁻¹⁰)	
Well Potential		Trans. (m ² /sec*10 ⁻³)	

SCREEN 6: WATER QUALITY ANALYSIS (PPH or mg/l)

Samp. Date	pH	TDS	TSS	ODOR
Color	Ca++	NH4+	NO3-	CO2
Cond. μ S/cm	Hg++	Zn++	NO2-	N2S
Temp °C	Na++	Cu++	CO3=	CH4
Turbidity	Fe++	HCO3-	PO4m	O2
Alkalinity	Na+	SO4=	F-	B
T. Hardness	K+	Cl-	SiO2	Pb

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (M.P.)		M.P. ab. Ground		Period. m.			
Date	GW Level BHP (m)	SWLT	GW Level HSL	Date	GW Level BHP (m)	SWLT	GW Level HSL

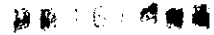
SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

PHILIPPINE GROUNDWATER DATABASE WELL RECORD



31622-0605

SCREEN 1: LOCATION

PCDB No	31622-0605	Source	WELL SPRING IND'S.		Local No	
Other No		Basin				
Longitude	120°51'25 X MM	230.2	X PM	484.551	Basin Area	
Latitude	14°04'48 Y MM	177.1	Y PM	1557.028	Loc. Method	FLO
Prov. Code	CAV CAVITE		Gr. Elev	563.00	Accu.	AL
Addr/Owner	ESPERANZA, ALFONSO		RODEO MILLS			
Mun. Code	ALF ALFONSO		Year	1990	Pop	28,944
Reg. Code	008 Esperanza		R	Pop	1,520	

SCREEN 2: WELL CONSTRUCTION DATA

WELL SPRING IND'S.

Borehole Depth (mm)	Casing (mm)	Type	Top (mbg)	Bot (mbg)	Screen Type	Perf	Slot (mm)	Top (mbg)	Bot (mbg)
240.0	200	RI	0.00	240.0	RI			95.0	110.0
					RI			159.0	200.0
					RI			210.0	240.0

Comp Date	/ /	Level	Own'p	PRI	Type	DW	Use
Operating	Y	Lift. Device	Gravel Pack (mm)				
M.P. ab. Ground (m)		Static WL (mbmp)		MSL			

SCREEN 3: STRATA LOG DATA

WELL SPRING IND'S.

Driller	WELL SPRING IND'S.		Drill. Method	Described by
Depth to Underside of Layer (mbg)	Form.	F. Area	Logs	
	Code	Brief Description of Penetrated Strata		Perm. Class
9.0	T	VITRIC TUFF		
18.0	T AG	VITRIC TUFF WITH AGGLOMERATE		
21.0	C	CLAY		
27.0	T	VITRIC TUFF		
43.0	T c	CLAYEY TUFF		
55.0	C t	CLAY WITH TRACE VITRIC TUFF		
64.0	T	TUFF		
67.0	C	CLAY		
98.0	T c	TUFF WITH CLAY		
106.0	C t	CLAY WITH TUFF		
110.0	T	TUFF		
137.0	C	CLAY		
165.0	T c	TUFF WITH CLAY		
170.0	C	CLAY		
180.0	T	TUFF		
192.0	T c	CLAYEY TUFF		
198.0	T	TUFF		
222.0	T c	TUFF WITH MINOR CLAY		
238.0	T	TUFF		

SCREEN 4: STEP DRAWDOWN PUMPING TEST

Date		By		No Steps / Duration (min)	
Q Max (l/s)		Transmissiv. (m ² /sec*10 ⁻³)			
Total Spec. Drawd. H ₂ O (m)		Aquifer Loss Coef. B(sec/m ²)			
Specific Capacity (l/s/m)		Well Loss Const. -C(sec ² /m ⁵)			

SCREEN 5: CONSTANT DISCHARGE PUMPING TEST

Date		By		Drawdn.	Recov.
Duration (min)		Trans. (m ² /sec*10 ⁻³)			
Discharge (l/s)		OBSERVATION WELL NO.			
Total Drawdown (m)		Storage (*10 ⁻³)			
Sp. Cap. End Test (l/s/m)		Leakage (*10 ⁻¹⁰)			
Well Potential		Trans. (m ² /sec*10 ⁻³)			

SCREEN 6: WATER QUALITY ANALYSIS (PPM or mg/l)

Samp. Date		pH		TDS		TSS		ODOR	
Color		Ca ⁺⁺		NH ₄ ⁺		NO ₃ ⁻		CO ₂	
Cond. μS/CM		Mg ⁺⁺		Zn ⁺⁺		NO ₂ ⁻		H ₂ S	
Temp °C		Mn ⁺⁺		Cu ⁺⁺		CO ₃ ⁼		CH ₄	
Turbidity		Fe ⁺⁺		HCO ₃ ⁻		PO ₄ ⁼		O ₂	
Alkalinity		Na ⁺		SO ₄ ⁼		F ⁻		B	
T. Hardness		K ⁺		Cl ⁻		SiO ₂		Pb	

SCREEN 7: GROUNDWATER LEVELS HISTORY

Measuring Pt. (H.P.)			M.P. ab. Ground			Period. m.	
Date	GW Level BHP (m)	SWL?	GW Level MSL	Date	GW Level BHP (m)	SWL?	GW Level MSL

SCREEN 8: GROUNDWATER DISCHARGE HISTORY

Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)	Date	Q (m ³ /h)

SCREEN 9: CHLORIDE CONTENT HISTORY

Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)	Date	CL (ppm)

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