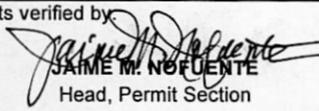
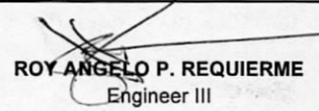
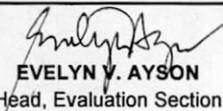
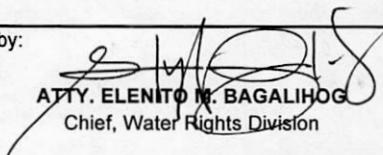


Republic of the Philippines National Water Resources Board 8th Floor NIA Building, EDSA, Quezon City		WATER PERMIT APPLICATION EVALUATION SHEET Groundwater Source																																													
		Water Permit Application No. 13692	Control No. 26652																																												
		Date Filed: 4/20/93	At: NWRB																																												
1. Name and Address of Applicant: HOUSEHOLD DEVELOPMENT CORPORATION, Camella Center, Alabang-Zapote Rd, Talon, Las Pinas		2. Location of Source: <input checked="" type="checkbox"/> Well <input type="checkbox"/> Spring (Barangay, Municipality, Province) Pamplona, Las Pinas, MM																																													
3. Location of Diversion Point a. Map Sheet No. b. Latitude: 14-27-31 c. Longitude: 120-59-13																																															
4. Checklist of documents and data requirements: a. <input checked="" type="checkbox"/> Ownership/right to land established b. <input type="checkbox"/> Brief description of proposed project/development c. <input checked="" type="checkbox"/> Location plan of water source & pt. of diversion (1:50,000 scale) d. <input checked="" type="checkbox"/> Location plan of area to be developed indicating the layout of proposed work e. <input checked="" type="checkbox"/> SEC Registration with Articles of Incorporation and Certification from the Corporate Secretary as to the present capital structure or DTI f. <input checked="" type="checkbox"/> Investigation Report g. <input checked="" type="checkbox"/> Water analysis/Bacteriological test (for Domestic use only) h. <input checked="" type="checkbox"/> Pumping test results/Well log data i. <input checked="" type="checkbox"/> Clearances <input type="checkbox"/> NIA- PIO, CO <input type="checkbox"/> DPWH - DE, <input type="checkbox"/> DENR (for all uses that affect water quality) <input type="checkbox"/> ECC <input type="checkbox"/> MWSS (within its franchise area only) <input type="checkbox"/> NPC (for hydropower generation only) <input type="checkbox"/> WD (within its franchise area only) j. <input type="checkbox"/> Others :																																															
5. Purpose: (Check as appropriate) a. <input checked="" type="checkbox"/> Domestic and Municipal Use b. <input type="checkbox"/> Irrigation c. <input type="checkbox"/> Power Generation d. <input type="checkbox"/> Fisheries e. <input type="checkbox"/> Livestock Raising f. <input type="checkbox"/> Industrial use, and g. <input type="checkbox"/> Other uses		6. Related Data: a. Area to be irrigated : <u>NA</u> hectares (for irrigation use) Crop Type : <u>NA</u> (for irrigation use) Water Duty : <u>0.0029</u> lps/person b. Population to be served by system : <u>1722</u> persons (for domestic use) c. Rated Capacity of Power Plant : <u>NA</u> kw (for hydropower) d. Fishpond area : <u>NA</u> ha. (for fishery) e. Livestock population to be served : <u>NA</u> heads (for livestock raising) f. Annual production _____ (product) : <u>NA</u> tons (for industrial)																																													
7. Water Availability a. Existing MWSS wells within 0.5 km. radius <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">MWSS Well No.</th> <th style="width:50%;">NAME</th> <th style="width:30%;">Lateral Distance (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> b. Existing wells within _____ km. radius <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Water Permit No.</th> <th style="width:30%;">NAME</th> <th style="width:30%;">Amt. of water granted (lps)</th> <th style="width:20%;">Lateral Dist. (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> c. Pending Application within _____ km. Radius <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">Water Permit No.</th> <th style="width:30%;">NAME</th> <th style="width:30%;">Amt. of water applied for (lps)</th> <th style="width:20%;">Lateral Dist. (m)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				MWSS Well No.	NAME	Lateral Distance (m)										Water Permit No.	NAME	Amt. of water granted (lps)	Lateral Dist. (m)													Water Permit No.	NAME	Amt. of water applied for (lps)	Lateral Dist. (m)												
MWSS Well No.	NAME	Lateral Distance (m)																																													
Water Permit No.	NAME	Amt. of water granted (lps)	Lateral Dist. (m)																																												
Water Permit No.	NAME	Amt. of water applied for (lps)	Lateral Dist. (m)																																												
8. Hydrogeological data (Sub-area no.) SA I Static Water Level: 74.06 m Transmissivity: _____ m2/d Specific Capacity: lps/m Mining Yield: 1506.83 lps. Safe Yield: 862.03 + 150.862 = 1012.712 <i>yes</i>																																															
9. Computation for beneficial use requirement Water Requirement = Pop to be served x Water Duty = 1722 x 0.0029 = 5.00 lps		10. Discharge of the Well: 7.43 lps																																													
11. Prior appropriation: (lps) 1996.70		12. Water available for appropriation:																																													
13. Amount of water applied for (lps): 4.99 lps		14. Amt. of water recommended for approval: 4.99 lps																																													
15. Remarks: (Amount recommended for approval must be equal to either the amount of water available for appropriation, beneficial use requirement, the amount of water applied for or well capacity, whichever is the least.) Per application amount of water applied for is 4.99 lps, hence the same is recommended for approval.. Project is located on area where there is no MWSS connection yet.																																															
16. <input type="checkbox"/> CPC is required																																															
Documents verified by:  JAIME M. NOFUENTE Head, Permit Section		Evaluated by:  ROY ANGELO P. REQUIERME Engineer III																																													
Checked by:  EVELYN Y. AYSON Head, Evaluation Section		Submitted by:  ATTY. ELENITO M. BAGALIHOG Chief, Water Rights Division																																													

PUMPING TEST DATA

SUBDIVISION:		LAS PINAS 3c & d				
DURATION		FROM	5:00a.m.		TO	
24 Hrs.		DATE :	9/19/97		DATE :	
DATE	HOUR	Time after start/stop of pump	water level	DISCHARGE MEASUREMENTS		REMARKS
			Volumetric Method			
			DISCHARGE CAPACITY			
		(min.)	(ft.)	GPM	LPS	
	5:00	0	243	132		
	5:02	2	243	132		
	5:04	4	243	132		
	5:06	6	243	132		
	5:08	8	243	132		
	5:10	10	243	132		
	5:15	15	244	132		
	5:20	20	244	132		
	5:25	25	244	132		
	5:30	30	248	132		
	5:35	35	248	132		
	5:40	40	250	132		
	5:45	45	250	132		
	5:50	50	251	132		
	6:00	60	251	132		
	6:10	70	251	132		
	6:20	80	260	132		
	6:30	90	260	132		
	6:40	100	260	132		
	6:55	115	260	132		
	7:10	130	271	132		
	7:25	145	271	132		
	7:40	160	273	126		
	8:00	180	273	126		
	8:20	200	273	126		
	8:40	220	273	126		
	9:00	240	276	126		
	9:20	260	276	126		
	9:40	280	276	126		
	10:00	300	276	126		
	10:30	330	277	126		
	11:00	360	277	126		
	11:30	390	277	126		
	12:00	420	277	126		
	12:30	450	278	122		
	1:00	480	278	122		
	2:00	540	285	122		
	3:00	600	285	122		
	4:00	660	298	122		
	5:00	720	298	118		

PUMPING TEST DATA

DATE	HOUR	Time after start/stop of pump (min.)	water level	DISCHARGE MEASUREMENTS		REMARKS
				Volumetric Method		
				DISCHARGE CAPACITY		
				GPM	LPS	
	6:00	780	298	118		
	7:00	840	298	118		
	8:00	900	298	118		
	9:00	960	298	118		
	10:00	1020	298	118		
	11:00	1080	298	118		
	12:00	1140	298	118		
	1:00	1200	298	118		
	2:00	1260	298	118		
	3:00	1320	298	118		
	4:00	1380	298	118		
	5:00	1440	298	118		

CERTIFIED CONSULT, ENGR. ROBERT C. CACDAR

