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ANNUAL REPORT ON
ABANDONED ARTESIAN WELLS
1987

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St. Johns River Water Management District
Palatka, Florida
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Project Number 10 018 02

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INTRODUCTION

Uncontrolled or improperly constructed artesian wells have a major effect on the quality and quantity of Florida's ground water resources. Thousands of wells have been drilled that do not meet current well construction standards and should be abandoned because of problems associated with these poor construction techniques. In addition to the poor construction, many of these wells were drilled some time ago and the poor water quality has caused corrosion of the casing and subsequent leaking. In some cases the flow has reduced the potentiometric surface which has increased the potential for mineralized water to contaminate the potable water supplies.

In the St. Johns River Water Management District (SJRWMD) the Floridan aquifer is the source of artesian flow for these wells. This aquifer is composed of limestone units overlain by the confining clays of the Hawthorn Group.

The District has an inventory of 350 abandoned artesian wells that need to be controlled. Flows measured or estimated from 170 of these wells, account for approximately 22 million gallons per day (MGD) of water that is wasted. An additional 25 MGD is estimated to flow from the remaining wells included in the inventory. To date, the well plugging program has provided for the plugging or reconstruction of 161 wells, thereby saving a flow of 28 MGD.

PURPOSE AND SCOPE

This document was prepared in order to comply with the requirements of Part IV of the "Water Quality Act of 1983". This document is the fifth annual report to the Department of Environmental Regulation of the District's abandoned artesian well inventory and work plan for controlling or plugging inventoried wells. Appendix A shows the format provided by the Department of Environmental Regulation to be used for this report. This report was also prepared for public distribution to show the District's progress in pursuing the problems resulting from abandoned artesian wells and to provide effective planning for future work in this field.

HISTORICAL REVIEW-LEGISLATION AND POLICIES

In the early 1950s severe drought conditions prompted regulations to be passed to prevent the waste of water from flowing wells. Sections 3703.051-.055 Florida Statutes (1953) required that working valves or caps be installed on all free flowing wells. In 1957, the Legislature adopted Sections 373.021-.061 F.S. which provided for the plugging of all artesian wells which were in violation of the law. Until 1972, the regulation and control of abandoned artesian wells was minimal. In 1972, the Florida Legislature established five water management districts. The rules covering abandoned artesian wells were then to be enforced by the districts through the Department of Environmental Regulation (DER)

In June of 1983, the "Water Quality Assurance Act of 1983" was enacted. This act calls for all known abandoned artesian wells to be plugged by the water management districts by January 1, 1992. In addition, it requires that an initial inventory and work plan outlining the methods and costs for well plugging be submitted by the districts to DER by January 1, 1983. It further requires that in each succeeding year an annual report shall be sent until all the wells are plugged or until 1992.

The SJRWMD began well plugging activities in 1976. This began as a cooperative program with the Agricultural Stabilization and Conservation Services (ASCS) to improve water quality in irrigation wells. This program consisted of partially backfilling wells that had been drilled too deep. The District provided technical assistance while well owners shared plugging costs with the ASCS.

In 1981, the SJRWMD and Brevard County Board of County Commissioners developed an agreement which provided matching funds for plugging wells in Brevard County. This program has been renewed each year since and has resulted in 105 wells being plugged or reconstructed.

In 1986, the District initiated a cost share for wells outside of Brevard County (Appendix D). Under this policy a well owner pays one half of the cost of plugging a well up to a maximum of \$600. This policy is designed to promote cooperation with well owners by offering assistance and to use the regulatory authority of the District effectively.

INVENTORY

Initially the Florida Geological Survey (Hendry & Lavender 1957) 715 free-flowing wells within the District. Later, the U.S. Geological Survey (Healy 1978) estimated approximately 5000 abandoned artesian wells within the District (Figure 1). In 1980-1982 the SJRWMD compiled an inventory of 293 wells. The current 1987 inventory includes 511 wells of which 161 have been plugged. Of the 511 wells, 62 were added in 1987. The inventory is an ongoing process and includes reports from other agencies, citizens, and routine field work. Though numbers may vary, all estimates indicate that the majority of the wells are located in the southern half of the District (Figure 2). This area of the District contains the largest area of artesian flow and the highest concentration of agricultural land.

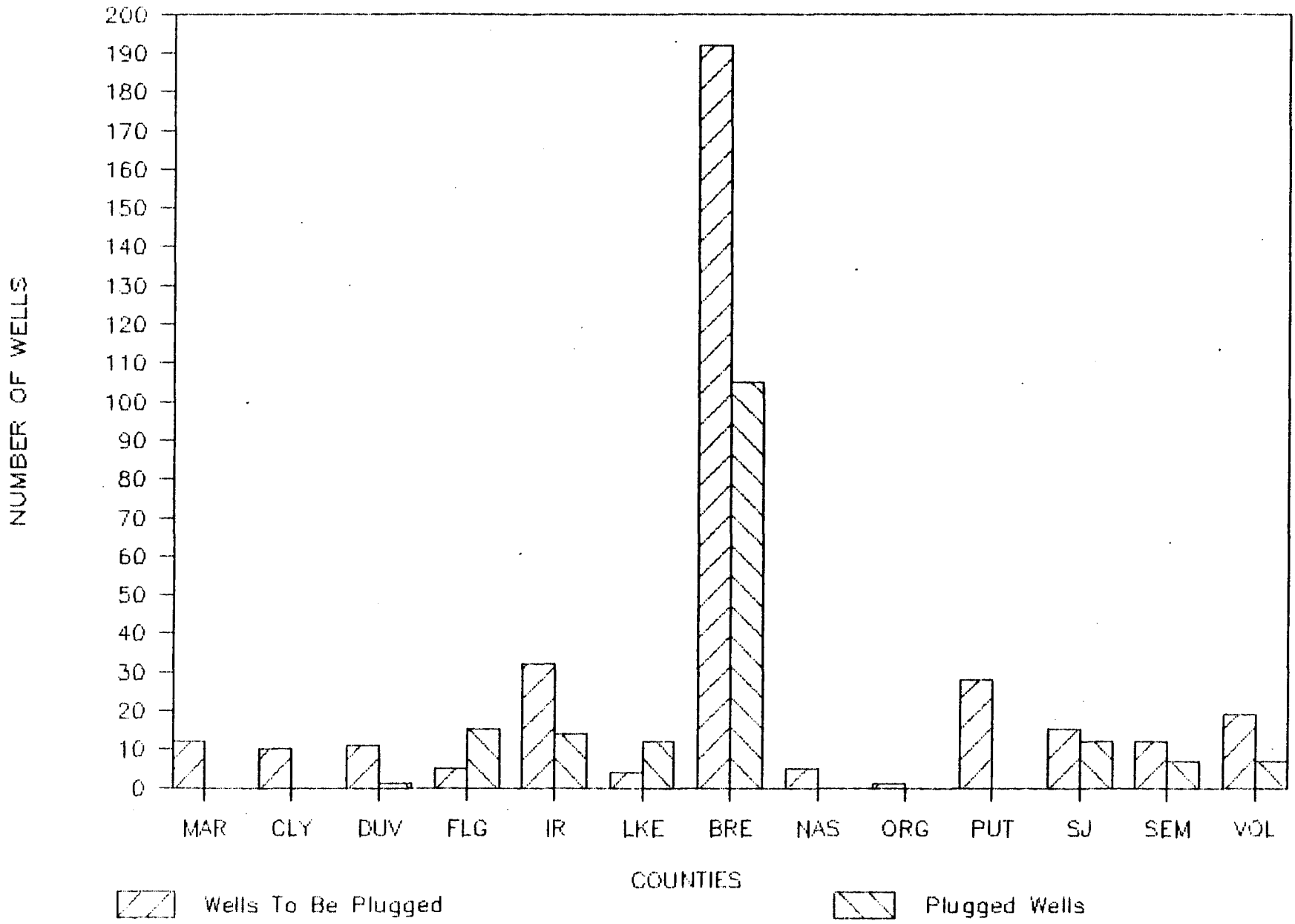
A well is included on the inventory if it meets any of the conditions set forth in subsection 3, Section 373.203 F.S. as listed below:

373.203 Definitions

- (3) "Abandoned artesian well" is defined as an artesian well:
- (a) That does not have a properly functioning valve;
 - (b) The use of which has been permanently discontinued;
 - (c) That does not meet current well construction standards;
 - (d) That is discharging water containing greater than 500 mg/l chlorides into a drinking water aquifer;
 - (e) That is in such a state of disrepair that it cannot be used for its intended purpose without having an adverse impact upon an aquifer which serves as a source of drinking water, or which is likely to be such a source in the future; or
 - (f) That does not have a proper flow control on or below the land surface.

ABANDONED ARTESIAN WELLS

IN THE SJRWMD



The inventory records of free-flowing wells are entered into the District's computer data base. There are currently 350 wells listed in this file. By using this system, information concerning location, construction details, water quality, owner's name and general comments can be accessed and put in report form. A paper file is also kept that includes a photograph of the wells and a detailed map to the site.

PRIORITY

A priority system has been established in the District's well plugging program to rank groups of wells according to the impact of the wells on the water resources of the area. The criteria considered when grouping wells includes; the quality of water being discharged or involved in interaquifer flow, the quantity of the water, the well construction, and the physical conditions of the well. When specific hydrogeologic information is evaluated for a particular well or group of wells, the wells are prioritized accordingly. The District has identified and ranked eight groups with 1 being the highest priority, and 8 being the lowest priority.

1. Good quality water in limited supply with no recharge (an isolated lens of fresh water).
2. Good quality water in large supply with no recharge.
3. Good quality water in limited supply with recharge.
4. Poor quality water contaminating fresh, shallow aquifers (areas dependent on shallow aquifers for potable water supply will have higher priority).

5. Poor quality water directly contaminating fresh surface water bodies (areas that exhibit rapidly increasing chloride levels will have higher priority).
6. Good quality water in large supply with recharge.
7. Poor quality water contaminating shallow aquifers exhibiting high chloride levels.
8. Poor quality water directly contaminating brackish or salt water surface water bodies.

PLUGGING METHODOLOGY

The various legal, technical, and financial aspects of the particular project are discussed with the owners to determine the best course of action. Options are considered based on available financing, the goals of the program, and opposition to the project. Contract documents, cooperative agreements, and permitting requirements are handled as needed (Appendix C).

Specifications for plugging the wells are developed based on current rules (SJRWMD Rules, Chapter 40C-3, Revised Edition) and the hydrogeologic setting of the well. This information is used to determine what type of plug will be necessary. The evaluation includes the following:

1. The location of aquifers and confining units.
2. Construction details of the well including cased depth and total depth.
3. Present condition of the well as determined from geophysical logs or by running drill rod or tremie pipe to the bottom of the well.

From the analysis of the geophysical logs one or a combination of the following plugging methods are generally used:

1. Valves or Caps - When the well does not present any water quality problems or transfer of water from one aquifer to another (interaquifer flow), the most efficient way to preserve the water resource is to install a workable valve or cap.
2. Backfilling - This is generally the best method to insure that a well is properly plugged. The method involves setting drill rod or tremie pipe to about 20 feet from the bottom of the well and pumping a cement slurry through it to fill the well from the bottom to land surface. This can be done in one large batch or in stages. Generally by pumping several smaller batches and allowing time for the cement to set, problems of wasting cement can be avoided. If a well is taking much more cement than calculated, it may be necessary to install a plug or use gravel to bridge certain zones. Once the plug is installed, the well can be backfilled to the surface.
3. Plugs - there are many commercial plugs available to seal a well or hold cement in place until it sets. The Southwest Florida Water Management District has devised a form of cement plug (termed QWIP - from Quality of Water Improvement Program) to bridge zones of lost circulation or set casings (see Figure 3). This plug is generally fabricated on site and attaches to 1-1/4 inch diameter PVC tremie pipe. A coarse left hand threaded coupling and nipple is used to provide a positive disconnect

system so the tremie pipe can be removed from the plug. A check valve is placed on the tremie to prevent the slurry from being forced out of the burlap "sock" by natural water pressure. A calculated volume of slurry is pumped into the sock and allowed to set before backfilling can be resumed. This plug can bridge the large cavities normally associated with the soft limestone and prevent interaquifer flow.

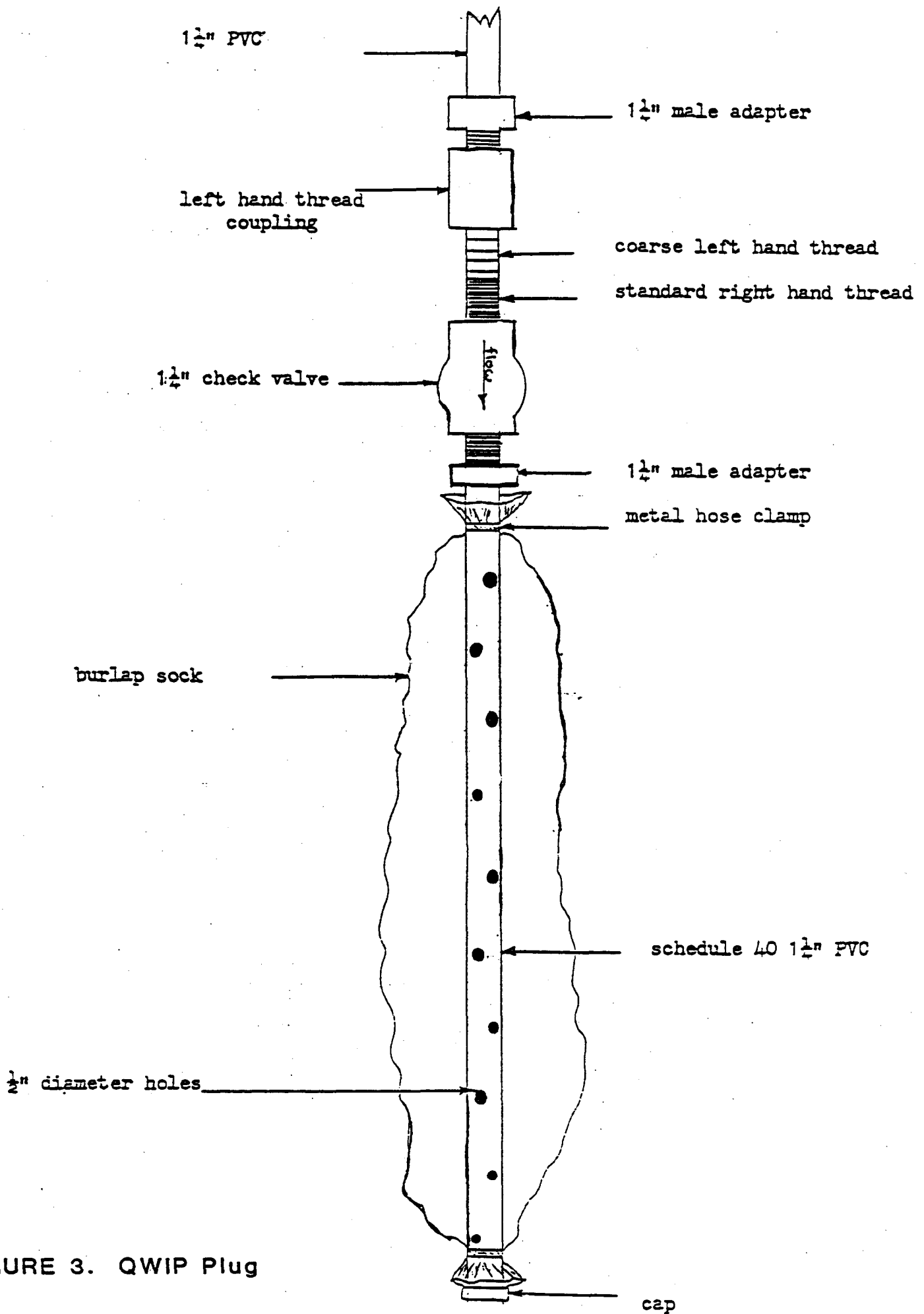


FIGURE 3. QWIP Plug

CURRENT STATUS
OF 1986/1987 PROJECTS

The 1986/1987 projects were located in Brevard, Seminole, Duval and Indian River counties. A total of 57 wells were plugged or reconstructed.

The majority of this work was done in Brevard County through a cooperative agreement with the Brevard County Board of County Commissioners. The combined flow from these wells was over 2.7 MGD with an average of 0.09 MGD per well.

In Seminole County eight wells were plugged through a cooperative agreement with the Florida Freshwater Fish and Game Commission. These wells were originally used to maintain water levels in one of the fish hatcheries.

In Duval County one well was plugged 40 feet offshore under 8 feet of water in the St. Johns River. This was done using District personnel and equipment. This project required divers to locate the top of the casing and to modify it so there was vertical access for geophysical logging and subsequent plugging.

Continued effort was directed toward plugging wells on District owned property. Much of the land that the District has purchased was previously used for agricultural purposes. Forty-four (44) wells have been inventoried on these lands and seventeen were plugged this year. In many cases the previous owner is leasing the land from the District and still needs the use of the wells. In this situation the wells are being repaired to regulate surface flow and are scheduled to be plugged when the lease expires. The District lands where wells were plugged are in western Indian River and south Brevard counties.

COSTS

The following tables are provided to show actual costs for plugging and program support. In these tables, actual costs are the costs associated with contractual services and cement and related products. The program support costs include salaries, insurance, travel, supplies, purchased equipment, rental equipment and other commodities. An administrative cost is added to show the estimated costs associated with bidding, invoicing, legal services and other necessary administrative processes.

To date, the District has spent \$461,833 for this program. The total actual costs were \$213,138 or \$1,324 per well. The total support costs were \$248,695 or \$1,545 per well.

TABLE 1: Actual Plugging Costs

Plugging Costs for FY 1986/1987

Contractual Services, Cement, and Related Products	\$ 51,640.24
Average Cost FY 1986/1987 per Well (57 wells)	\$ 905.97
Plugging Costs to Date	
Costs from FY 1980/1981 through FY 1985/1986	\$ 161,498.00
Costs from FY 1986/1987	<u>\$ 51,640.24</u>
TOTAL COSTS TO DATE	\$ 213,138.24
AVERAGE COST TO DATE PER WELL (161 WELLS)	\$ 1,323.84

Table 2: Actual Costs for Program Support

Program Support Costs for FY 1986/1987

Support Costs	\$ 57,871.48
Administrative Costs (12%)	<u>6,944.58</u>
TOTAL SUPPORT COSTS	\$ 64,816.06
AVERAGE COST PER WELL	\$ 1,137.12
Program Support Costs to Date	
Costs for FY 1986/1987	\$ 64,816.06
Costs from FY 1980/81 through FY 1985/1986	<u>183,879.00</u>
TOTAL SUPPORT COSTS TO DATE	\$ 248,695.06
AVERAGE SUPPORT COST PER WELL	\$ 1,544.69
AVERAGE SUPPORT COST PER YEAR	\$ 135,527.87

Table 3. Projected Actual Plugging Costs to Plug All Wells by 1992

Costs Per Year	
Estimated Number of Wells to Plug	710
Number of Wells to Plug Per Year	142
Average Cost Per Well	\$ 905.97
Average Cost Per Year	\$ 128,647.62
Projected Costs for Actual Plugging*	
FY 1987/1988	\$ 136,366.47
FY 1988/1989	\$ 144,548.46
FY 1989/1990	\$ 153,221.37
FY 1990/1991	\$ 162,414.65
FY 1991/1992	\$ 172,159.53
TOTAL PROJECTED COSTS	\$ 768,710.48

*Based on 6% increase per year

Table 4. Projected Costs for Program Support Until 1992

Costs per year	
Estimated Number of Wells to Plug	710
Number of Wells to Plug per year	142
Average Cost Per Well	\$ 1,544.69
Average Cost Per Year	\$ 219,345.95
Projected Costs for Program Support*	
FY 1987/1988	\$ 232,506.71
FY 1988/1989	\$ 246,457.11
FY 1989/1990	\$ 261,244.54
FY 1990/1991	\$ 276,919.21
FY 1991/1992	\$ 293,534.36
TOTAL PROJECTED COSTS	\$1,310,661.93

* Based on 6% increase

Table 5. Total Projected Costs for Actual Plugging and Program Support Until 1992

Projected Actual Plugging Costs	\$,68,710.48
Projected Program Support Costs	\$1,310,661.93
TOTAL PROJECTED COSTS	\$2,079,372.41

DEFINITIONS

Aquifer - A formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield economic quantities of water to wells and springs.

Artesian Well - A well deriving its water from a confined aquifer in which the water level stands above the aquifer.

Capping - Refers to stopping the water of an artesian well from flowing at the surface by some mechanical device. This includes valves, threaded caps, plumbers test plugs, or even cementing a section at the top of the well.

Free Flowing Well - An artesian well with or without a mechanism for controlling discharge that allows water to flow continuously at the land surface or into other aquifers through internal flow because of improper well construction or condition. Common names include "wild flowing well", "free flower", "uncontrolled artesian well", and "abandoned artesian well".

Head - Energy contained in a water mass, produced by elevation, pressure or velocity. The potentiometric surface is dependent on the head pressure of an aquifer.

Plugging - Includes any technique used to restore a well to the original hydrogeologic setting before it was drilled. This includes filling it with a cement slurry from bottom to land surface or setting plugs so that individual aquifers are totally isolated.

Potentiometric Surface - The surface defined by the height that water from an aquifer will rise to in a tightly cased well.

Tremie Pipe - Any relatively small diameter pipe (<1-1/2" ID) that is lowered into a well to a specific depth for the purpose of pumping a cement slurry through it for total or partial backfilling of a well.

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_____, Ripy, B. J. and R. A. Johnson 1979. Saline contamination of a limestone aquifer by connate intrusion in agricultural areas of St. Johns, Putnam, and Flagler counties, northeast Florida. St. Johns River Water Management District Technical Publication SJ 79-7. Palatka, Fla.

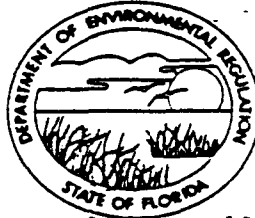
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APPENDIX A

OUTLINE PROVIDED BY THE DEPARTMENT OF ENVIRONMENTAL REGULATION

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

October 12, 1983

Mr. Doug Munch
St. Johns River Water
Management District
Post Office Box 1429
Palatka, Florida 32077

RE: Artesian Well Plugging Workplan

Dear Mr. Munch:

Part IV of the Water Quality Assurance Act directs the five water management districts to prepare inventories and workplans outlining methods and costs of plugging all abandoned artesian wells in their district by January 1, 1992. The water management districts shall submit an initial workplan to the Secretary of DER by January 1, 1984.

Enclosed is a draft format for the workplan. Please review and let me know if you have any serious problems with the contents. The level of detail and length of each water management district workplan will be proportional to the number of wells and the existence of an active well plugging program. In those districts without a district-wide inventory, cost estimates may have to be given for both known and estimated number of wells.

Another topic we need to discuss is the use of the original inventory. I have the original well schedules (in pencil) complete with photographs, wellhead diagrams and hand drawn maps from which Information Circular No. 21 was prepared. These statewide records have remained intact since 1958, so I am reluctant to start mailing originals all over the state.

A meeting in Tallahassee with all water management districts can be arranged, if you feel there is a need. Suggested dates are November 8, 9, 15, or 16. Please let me know if you would prefer to meet or discuss any problems by telephone.

Sincerely,

Leslie Bell
Environmental Supervisor
Groundwater Section

LB/cs

Enclosures

cc: Rodney DeHan
Greg Parker
Howard Rhodes
John Wehle

Format for Artesian Well Plugging Workplan

	DOCUMENT SUBHEADINGS	Page
I. Introduction		
A. Brief assessment of existing problem	'INTRODUCTION'.....	
B. Brief summary of any existing program	'CONCLUSION AND SUMMARY.....	
II. Inventory		
A. Results of 1983 Inventory presented in table form. The format in Table 1 and Table 3 from the Florida Geological Survey Information Circular No. 21 (examples attached) can be used as models.....		
B. Description of methodology used in obtaining initial inventory, including types of sources contacted, publicity, and field verification methods	'INVENTORY'.....	
C. Location and Owner of each abandoned well.....		
1. Present by county, alphabetically by owner and latitude/longitude		
2. If inventory is already on data base, existing format may be submitted		
D. Proposed Methodology for Updating Inventory	'Inventory, 'CONCLUSION AND SUMMARY..	
1. Location techniques		
2. Field verification		
3. Public notification techniques		
III. Well Plugging Priority Schedule		
A. Criteria to be used to develop schedule:	'Priority'.....	
1. Condition of casing		
2. Presence of operable valve		
3. Water quality in well and receiving aquifer		
4. Surface or subsurface flow from well		
5. Diameter of well and flow volume		
6. Surficial aquifer use in proximity to artesian well		
B. Proposed Schedule	'PROPOSED SCHEDULING'..	
1. Individual wells may be listed for the water management districts with smaller inventories. Types of wells with highest priority may be listed for water management districts with larger inventories.		

IV. Plugging Methodology	DOCUMENT SUBHEADINGS	Page
A. Description of existing procedure, including all legal paperwork and contract processing	'Plugging Methodology'.....	
B. Type of plugs commonly used	'Type of Plugs'.....	
C. Description of any inspection or verification	'COSTS'.....	
D. Timetable for plugging completion, which incorporates priority schedule developed in III	'PROPOSED SCHEDULING'.....	
V. Costs		
A. Costs should be presented in two categories - water management district costs and actual plugging costs	'COSTS'.....	
B. Estimates for water management district costs should be given in 'per well' units, and should include:	'TABLE'.....	
1. Staff time for locating wells		
2. Staff time for well assessment and placement in priority schedule		
3. Staff time for resolving any legal difficulties		
4. Staff time for preparing and awarding plugging contract		
5. Staff time for inspection, updating of inventory		
6. Total estimated cost		
1. 'Per well' cost times number of known or estimated wells in district		
C. Actual Plugging Costs	'TABLE'.....	
1. Estimated average plugging cost per well. Wells may be classified into two or three depth groups.		
2. Total estimated plugging cost		
1. 'Per well' cost times number of known or estimated wells in district		
VI. Recommendations		
A. Need for changes or expansion of existing programs		
B. Other		

APPENDIX B
INVENTORY OF FREE FLOWING AND PLUGGED WELLS

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
BREVARD CO. DIST 3	BR0101	FLOWING	150.00	601.00	275710	803543	316	-	4.00	
BREVARD COUNTY	BR0199	FLOWING	100.00	1377.00	282213	804047	-	-	4.00	
BREVARD CO MC	BR0210	FLOWING	100.00	1377.00	282447	8041 5	-	-	4.00	
BREVARD CO. MC	BR0213	FLOWING	125.00	1070.00	282543	804122	-	-	4.00	
JAMESTOWN CONDOS	BR0232	FLOWING	-	501.00	28 843	8035 4	-	-	4.00	
BREVARD CO. MC	BR0238	FLOWING	135.00	1480.00	282416	804046	261	105	4.00	
BREVARD CO. MC	BR0241	FLOWING	150.00	1460.00	2826 2	804145	172	-	4.00	
TOLEDO TRUST CO	BR0259	FLOWING	360.00	445.00	282146	805128	-	-	2.00	PLUGGED 1984
BREVARD COUNTY	BR0300	FLOWING	300.00	1070.00	281659	8040 7	261	104	4.00	
BREVARD CO. M.C.	BR0308	FLOWING	80.00	1353.00	282017	8041 6	-	-	4.00	
BREVARD COUNTY M. C.	BR0391	FLOWING	50.00	1030.00	281921	804053	-	-	4.00	
BREVARD CO. M.C.	BR0430	FLOWING	15.00	1447.00	282152	804117	152	82	4.00	
GENERAL DEVEL CORP.	BR0495	FLOWING	-	-	275642	804120	-	-	6.00	
M. BRUNO	BR0497	FLOWING	-	540.00	28 138	803219	-	-	4.00	
CITY OF PALM BAY	BR0522	FLOWING	-	627.00	275957	803928	290	128	4.00	
J.T. SPEEGLE	BR0523	FLOWING	-	-	281913	804242	-	-	2.00	
UNDETERMINED	BR0524	FLOWING	-	1652.00	282521	8043 4	-	-	6.00	
GARY K. HOBBS	BR0525	FLOWING	-	4177.00	282742	8043 0	-	-	0.00	
BREV. CITY PARK	BR0527	FLOWING	-	-	822620	804140	-	-	4.00	
TOLEDO TRUST CO	BR0528	FLOWING	-	2112.00	282151	805125	-	-	2.00	
WATSON	BR0529	FLOWING	-	-	2822 5	804153	600	-	4.00	
SAM ANDERSON	BR0530	FLOWING	-	706.00	281256	804015	494	100	6.00	
THOMAS	BR0539	FLOWING	-	-	281557	815040	-	-	3.00	
GEORGE DEMASSEY	BR0543	FLOWING	-	-	2821 5	804137	-	-	2.00	
NASA	BR0544	FLOWING	-	2690.00	283227	804046	-	-	6.00	
JAMES LEWIS	BR0545	FLOWING	-	-	282355	803959	120	-	2.00	
CAPE CANAVERAL AFS	BR0546	FLOWING	-	-	2825 0	803633	-	-	3.00	
SCHRURSBRENN ZITA	BR0547	FLOWING	-	604.00	275955	804345	-	-	4.00	
PARRISH JESSIE J.	BR0548	UNUSED	-	-	284714	805134	130	84	4.00	
HANLON ED	BR0549	FLOWING	-	-	282514	8043 3	-	-	4.00	
CAPE CANAVERAL AFS	BR0550	FLOWING	-	-	282737	803139	374	109	3.00	
CAPE CANAVERAL AFS	BR0551	FLOWING	-	-	283026	8033 9	262	100	4.00	
UNDETERMINED	BR0555	UNDETERMINED	-	775.00	275252	803948	-	-	0.00	
CAPE CANAVERAL AFB	BR0600	FLOWING	-	-	282741	803539	330	100	4.00	
NASA	BR0613	FLOWING	-	1410.00	283037	804027	-	-	3.00	
NASA	BR0616	FLOWING	-	1890.00	283135	804117	-	-	6.00	
BREVARD COUNTY	BR0640	FLOWING	-	-	281831	804448	-	-	6.00	
COTNEY	BR0642	FLOWING	-	7280.00	282432	804238	888	888	4.00	
GDC	BR0647	FLOWING	-	580.00	275624	804219	-	-	6.00	
GDC	BR0649	FLOWING	-	653.00	275715	8042 4	-	-	6.00	
GDC	BR0650	FLOWING	-	648.00	275648	804150	-	-	6.00	
GDC	BR0651	FLOWING	-	622.00	2756 3	804157	-	-	6.00	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
GDC	BR0653	FLOWING	-	538.00	275615	804232	-	-	6.00	
GDC	BR0654	FLOWING	-	1050.00	275636	804234	-	-	6.00	
UNDETERMINED	BR0659	FLOWING	75.00	486.00	28 8 0	804159	-	-	4.00	
PATRICK AFB	BR0670	FLOWING	210.00	1240.00	281121	803558	297	94	3.00	
PATRICK AFB	BR0671	UNUSED	388.00	1590.00	281117	803558	483	94	4.00	
PATRICK AFB	BR0672	UNUSED	191.00	1390.00	281119	8036 9	330	105	3.00	
PATRICK AFB	BR0673	UNUSED	358.00	1080.00	281116	8036 2	444	94	4.00	
PATRICK AFB	BR0674	UNUSED	358.00	1130.00	281112	8036 0	501	94	4.00	
PATRICK AFB	BR0675	UNUSED	316.00	900.00	281115	803551	444	95	4.00	
PATRICK AFB	BR0676	UNUSED	191.00	620.00	281117	803549	355	105	3.00	
MELBOURNE COUNTRY CL	BR0682	UNUSED	-	-	28 440	803742	120	-	0.00	
MELBOURNE COUNTRY CL	BR0683	UNUSED	-	-	28 440	803742	10	-	0.00	
MELBOURNE COUNTRY CL	BR0684	UNUSED	-	-	28 440	803742	888	888	2.00	
CITY OF MELBOURNE	BR0685	UNUSED	-	-	28 5 2	803653	35	-	2.00	
CITY OF MELBOURNE	BR0686	UNUSED	-	-	28 459	803653	400	90	6.00	
CITY OF MELBOURNE	BR0687	UNUSED	-	-	28 752	803733	888	888	2.00	
CITY OF EAU GALLIE	BR0688	UNUSED	-	-	28 712	803752	511	110	6.00	
CITY OF MELBOURNE	BR0690	UNUSED	-	-	28 750	803848	65	46	6.00	
CITY OF MELBOURNE	BR0691	UNUSED	-	-	28 744	803848	45	33	6.00	
CITY OF MELBOURNE	BR0692	UNUSED	-	-	28 810	803546	888	888	2.00	
CITY OF EAU GALLIE	BR0693	UNUSED	-	-	281018	803947	888	888	3.00	
NASA	BR0695	FLOWING	-	1362.00	282747	803947	57	888	3.00	
CANAVERAL AFB	BR0697	FLOWING	-	-	282654	803551	888	888	6.00	
E. L. WEGERIF	BR0711	FLOWING	250.00	1110.00	281820	804043	-	-	4.00	
E. L. WEGERIF	BR0712	FLOWING	-	-	281820	804058	-	-	6.00	
TUCKER	BR0713	FLOWING	-	993.00	282013	8047 7	336	105	4.00	
TUCKER	BR0714	FLOWING	-	1020.00	282013	804720	124	102	4.00	
TUCKER	BR0715	FLOWING	-	863.00	282024	804721	267	108	4.00	
TUCKER	BR0716	FLOWING	-	1100.00	282032	804728	218	106	4.00	
TUCKER	BR0717	FLOWING	-	1370.00	282039	804725	888	888	4.00	
BOY SCOUTS-ORLANDO	BR100	FLOWING	-	-	275719	803513	-	-	4.00	
DAVENPORT	BR103	FLOWING	-	-	275810	8035 3	-	-	6.00	
UNDETERMINED	BR120	FLOWING	-	728.00	282329	803623	-	-	2.00	
BREVARD COUNTY	BR151	FLOWING	15.00	1653.00	282420	804135	-	-	4.00	
UNDETERMINED	BR182	FLOWING	80.00	691.00	275823	8035 2	-	-	6.00	
UNDETERMINED	BR200	FLOWING	15.00	1516.00	282213	804055	-	-	4.00	
LONE CABBAGE CAMP	BR204	FLOWING	100.00	2071.00	2822 7	805218	-	-	2.00	
BREVARD CO. * C.	BR209	FLOWING	15.00	1319.00	282417	804135	-	-	2.00	
BREVARD CO. * C.	BR219	FLOWING	-	2876.00	282643	804315	-	-	4.00	
GEN. DEVELOP. CORP.	BR225	FLOWING	50.00	747.00	275825	804210	-	-	4.00	
GEN. DEVELOP. CORP.	BR226	FLOWING	20.00	714.00	275835	804219	266	-	4.00	
KEMPHER	BR228	FLOWING	20.00	223.00	28 443	805032	295	-	4.00	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
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BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
KEMPER	BR229	FLOWING	83.00	387.00	28 457	805018	-	-	4.00	
KEMPER	BR230	FLOWING	25.00	360.00	28 530	804644	-	-	4.00	
DESERET RANCH	BR231	FLOWING	1.00	361.00	28 536	804643	-	-	4.00	
BREVARD CO. M.C.	BR233	FLOWING	150.00	935.00	281732	804155	-	-	4.00	
HAPPED	BR234	FLOWING	15.00	1015.00	282040	803951	-	-	0.00	
ROCKLEDGE GOLF COUR	BR235	FLOWING	-	-	282013	804449	-	-	4.00	
ROCKLEDGE GOLF COUR	BR236	FLOWING	-	-	2820 8	804442	-	-	4.00	
UNDETERMINED	BR237	FLOWING	20.00	2117.00	282150	805115	-	-	2.00	
BREVARD CO. MC	BR239	FLOWING	8.00	2922.00	282652	804323	-	-	3.00	
BREVARD CO. MC	BR240	FLOWING	100.00	4309.00	282754	804310	-	-	3.00	
C. CRISAFULL	BR242	FLOWING	25.00	1887.00	282624	804248	-	-	4.00	
CHARLES CRISAFULLI	BR243	FLOWING	-	2455.00	282623	804257	-	-	4.00	
UNDETERMINED	BR244	FLOWING	1.25	1122.00	281957	803952	-	-	2.00	
ROCKLEDGE GOLF COUR	BR245	FLOWING	-	1470.00	2820 2	8045 6	-	-	4.00	
CORRIGAN	BR246	FLOWING	-	538.00	274933	803518	-	-	2.00	
DEER RUN	BR247	FLOWING	10.00	725.00	275226	803823	-	-	2.00	
DEER RUN	BR248	FLOWING	-	705.00	275253	803832	399	-	6.00	
DEER RUN	BR249	FLOWING	-	735.00	275255	803850	305	-	6.00	
UNDETERMINED	BR250	FLOWING	-	671.00	275357	803637	409	-	2.00	
SEIB GROVE	BR251	FLOWING	-	785.00	275332	803739	-	-	4.00	
UNDETERMINED	BR252	FLOWING	-	695.00	275321	803924	-	-	2.00	
DEER RUN	BR253	FLOWING	-	768.00	2752 7	803951	680	-	6.00	
UNDETERMINED	BR254	FLOWING	-	732.00	275325	803916	-	-	2.00	
UNDETERMINED	BR255	FLOWING	-	734.00	275351	8040 4	333	-	3.00	
UNDETERMINED	BR256	FLOWING	-	715.00	275351	8040 4	-	-	2.00	
UNDETERMINED	BR257	FLOWING	150.00	701.00	275416	8039 4	315	-	6.00	
GEN. DEVELOP. CORP.	BR260	FLOWING	-	701.00	2755 2	804024	389	-	2.00	
GEN. DEVELOP. CORP.	BR264	FLOWING	-	668.00	275656	804121	-	-	2.50	
CARLYLE PLATT	BR266	FLOWING	28.00	768.00	275745	803928	-	-	3.00	
GEN. DEVELOP. CORP.	BR267	FLOWING	-	758.00	275746	804116	299	-	3.00	
GEN. DEVEOP. CORP.	BR268	FLOWING	-	691.00	275725	8041 4	-	-	4.00	
GDC-CARLYLE PLATT	BR274	FLOWING	7.00	581.00	275812	804218	-	-	6.00	
GDC-CARLYLE PLATT	BR275	FLOWING	4.50	481.00	275816	804234	-	-	4.00	
GEN. DEVELOP. CORP.	BR276	FLOWING	-	725.00	275956	803820	-	-	0.00	
GEN. DEVELOP. CORP.	BR277	FLOWING	-	718.00	275955	803940	-	-	4.00	
HAROLD PLATT	BR279	FLOWING	-	534.00	2759 1	804320	364	-	4.00	
HAROLD PLATT	BR280	FLOWING	-	414.00	275952	804512	377	-	0.00	
GEN. DEVELOP. CORP.	BR281	FLOWING	-	678.00	28 041	804025	335	-	4.00	
GEN. DEVELOP. CORP.	BR301	FLOWING	-	-	275616	8041 2	-	-	6.00	
PERRY ELISON	BR333	FLOWING	-	2037.00	282232	804246	-	-	2.00	
CITY OF MELBOURNE	BR351	UNUSED	-	641.00	28 758	803814	600	-	12.00	
MARCUS BOOKIE	BR366	FLOWING	-	287.00	274921	805033	693	-	5.00	

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
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BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
WINDWARD APTS.	BR368	FLOWING	7.00	695.00	28 214	803711	-	-	2.00	
GEN. DEV. CORP. LAWN	BR369	FLOWING	-	561.00	28 132	803458	-	-	2.00	
GEN DEVELOP. CORP	BR370	FLOWING	500.00	650.00	28 232	804327	368	-	5.00	
DRAWDY	BR371	FLOWING	10.00	650.00	28 218	8041 7	-	-	4.00	
CECIL PLATT	BR372	FLOWING	2.00	488.00	28 445	804233	-	-	8.00	
WATERWAY ESTATES	BR373	FLOWING	-	-	281226	803626	-	-	6.00	
UNDETERMINED	BR374	FLOWING	-	-	281230	803626	-	-	6.00	
UNDETERMINED	BR375	FLOWING	-	-	281234	803629	-	-	6.00	
WATER WAY ESTATES	BR376	FLOWING	-	-	281243	803629	-	-	2.00	
UNDETERMINED	BR377	FLOWING	6.50	661.00	281018	803714	-	-	4.00	
UNDETERMINED	BR378	FLOWING	-	668.00	281017	803713	-	-	4.00	
FLA. STATE MATHERS B	BR379	FLOWING	-	-	28 857	803624	-	-	2.00	
PULLEN	BR380	FLOWING	-	1042.00	281332	803854	-	-	2.00	
SOMERFIELD	BR381	FLOWING	-	668.00	281341	8039 3	325	-	4.00	
WICKHAM PARK	BR382	FLOWING	200.00	548.00	28 934	803946	600	105	4.00	
WICKMAN PARK	BR383	FLOWING	275.00	625.00	28 951	803940	550	105	6.00	
UNDETERMINED	BR384	FLOWING	-	1189.00	281538	8041 5	-	-	4.00	
RAY COBBS	BR385	FLOWING	60.00	2004.00	2822 3	804228	420	80	6.00	
MOONEY	BR387	FLOWING	120.00	935.00	282047	8041 7	400	-	4.00	
BREVARD CO. M.C.	BR389	FLOWING	-	1430.00	281816	804024	-	-	6.00	
E. L. WEGERIF	BR390	FLOWING	-	1202.00	281823	804054	-	-	2.00	
LA TURE	BR392	FLOWING	42.00	1176.00	2816 5	804013	-	-	2.00	
A.L. READDY	BR393	FLOWING	-	1022.00	281648	804022	248	126	4.00	
UNDETERMINED	BR395	FLOWING	1.10	1002.00	2816 5	803955	-	-	2.00	
UNDETERMINED	BR397	FLOWING	-	277.00	281548	804116	-	-	0.00	
UNDETERMINED	BR400	FLOWING	220.00	1336.00	282045	804634	-	-	6.00	
TENDERFOOT RANCH	BR403	FLOWING	20.00	1570.00	282224	8047 1	-	-	4.00	
BREVARD CO. M.C.	BR406	FLOWING	40.00	1703.00	282327	804034	260	-	4.00	
NORRIS CATTLE CO.	BR408	FLOWING	-	1725.00	283655	805750	-	-	1.00	
DE VINCI INC.	BR411	FLOWING	-	508.00	275822	8031 2	-	-	2.00	
BREVARD CO. M.C.	BR412	FLOWING	-	524.00	28 053	803214	-	-	3.00	
W. C. ROPER	BR413	FLOWING	175.00	608.00	28 718	803732	-	-	6.00	
STEVE FANCZL	BR414	FLOWING	-	888.00	281730	804039	-	-	3.00	
HARVEY RAY	BR415	FLOWING	100.00	1002.00	281741	804158	-	-	3.00	
UNDETERMINED	BR416	FLOWING	-	788.00	282049	803942	-	-	2.00	
UNDETERMINED	BR417	FLOWING	20.00	1136.00	282337	803654	-	-	3.00	
UNDETERMINED	BR418	FLOWING	-	1510.00	282359	804234	204	-	3.00	
PHYLIS TINSLEY	BR419	UNUSED	150.00	2204.00	282543	804259	-	-	0.00	
QUARBURG	BR420	FLOWING	5.20	241.00	274959	805039	-	-	6.00	
POTEET	BR421	FLOWING	9.00	180.00	275045	804946	284	-	6.00	
UNDETERMINED	BR422	FLOWING	-	-	275131	8027 4	-	-	0.00	
UNDETERMINED	BR424	FLOWING	-	-	275913	803320	-	-	1.50	

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BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
UNDETERMINED	BR425	FLOWING	-	-	275953	804442	-	-	4.00
UNDETERMINED	BR426	FLOWING	0.20	573.00	281126	803748	-	-	2.00
NEVINS	BR428	FLOWING	10.00	868.00	281810	804450	-	-	4.00
GDC-LOT FOR SALE	BR431	FLOWING	10.00	721.00	28 030	803930	-	-	3.00
GOUGH 504 4TH AVE	BR434	FLOWING	-	645.00	28 354	803347	505	150	4.00
LULP LEE 2924 MAIN	BR435	FLOWING	4.00	762.00	28 344	803559	-	-	2.00
LULP LEE 2924 MAIN	BR435	FLOWING	4.00	762.00	28 349	803559	-	-	2.00
COYLE 412 SUNSET BLV	BR436	FLOWING	7.00	520.00	28 420	803340	-	-	2.00
CAPE CANAVERAL AFS	BR596	FLOWING	-	-	282528	803611	888	888	4.00
CAPE CANAVERAL AFS	BR597	FLOWING	-	-	282621	803559	888	888	4.00
CAPE CANAVERAL AFB	BR599	FLOWING	-	-	282732	803550	888	888	4.00
CAPE CANAVERAL AFB	BR601	FLOWING	-	-	282944	803244	888	888	3.00
NASA	BR605	FLOWING	-	1440.00	282737	804013	-	-	4.00
NASA	BR612	FLOWING	-	-	2830 1	804120	-	-	6.00
NASA	BR614	FLOWING	-	-	2831 4	804029	-	-	2.00
NASA	BR615	FLOWING	-	-	283130	804033	-	-	3.00
NASA	BR618	FLOWING	-	-	283238	804027	-	-	4.00
NASA	BR619	FLOWING	-	-	2834 4	803946	-	-	4.00
BREVARD CO. MC	BR79*	FLOWING	190.00	210.00	2752 6	802725	466	-	4.00
BREVARD CO. MC	BR84*	FLOWING	-	220.00	2753 3	802815	-	-	4.00
BREVARD CO. MC	BR88*	FLOWING	20.00	320.00	275530	802940	-	-	4.00
BREVARD CO. MC	BR89*	FLOWING	-	661.00	275523	8032 8	-	-	4.00
ATLANTIC RIDGE CORP	BR90*	FLOWING	-	678.00	275525	803335	-	-	4.00
BREVARD CO. MC	BR92*	FLOWING	-	476.00	2756 2	803022	387	-	4.00
BREVARD CO. MC	BR94*	FLOWING	-	515.00	275735	803048	-	-	4.00
BREVARD CO. MC	BR95*	FLOWING	-	935.00	275858	803118	329	-	4.00
BREVARD CO. MC	BR97*	FLOWING	-	551.00	275846	803121	346	-	4.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
CLAY COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
L. J. IVEY	C-0001	FLOWING	-	3.70	30 048	814143	365	300	3.00
DIV OF FORESTRY	C-0005	FLOWING	-	5.00	30 3 2	814227	-	-	3.00
STOKE	C-0009	FLOWING	-	-	30 455	814911	-	-	4.00
JENNINGS	C-0010	FLOWING	50.00	17.00	30 050	815520	330	300	3.00
KNIEBES	C-0011	FLOWING	40.00	5.00	30 030	814138	-	-	6.00
TEMPLIN	C-0012	FLOWING	5.00	7.00	30 031	814141	-	-	3.00
UNDETERMINED	C-0013	FLOWING	150.00	5.00	30 620	814628	-	-	6.00
GEORGE THEOBALD	C-0118	FLOWING	-	5.00	30 551	8146 1	-	-	6.00
SKINNER BRYANT	C-0129	FLOWING	-	5.00	30 4 9	815152	888	888	6.00
FLORIDA SOLITE CO.	C-0271	FLOWING	5.00	-	30 4 3	814544	-	-	0.00
			10	250					

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
DUVAL COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
ROMCO	D-0435	FLOWING	85.00	15.00	301733	814317	-	-	10.00
CITY OF JACKSONVILLE	D-2559	FLOWING	-	-	302744	814217	-	-	8.00
F.E.C. RAILWAY	D426*	FLOWING	40.00	36.00	30 755	813057	-	-	3.00
WALDON POND SOCIETY	D427*	FLOWING	30.00	-	301658	8134 4	-	-	3.00
UNDERTIMINED	D428*	FLOWING	20.00	25.00	302318	813647	-	-	6.00
UNDERTIMINED	D429*	FLOWING	25.00	25.00	3023 5	813654	-	-	0.00
G.A. MHOON	D431*	FLOWING	70.00	33.00	3021 9	812840	-	-	3.00
HAROLD P. OMERANTE	D432*	FLOWING	5.00	28.00	302437	8142 9	-	-	4.00
CITY OF JACKSONVILLE	D433*	FLOWING	-	-	301723	814251	-	-	4.00
UNDETERMINED	D436*	FLOWING	5.00	30.00	301135	813413	-	-	3.00
UNDETERMINED	D437*	FLOWING	-	24.00	30 737	8130 4	-	-	3.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 THE FREE FLOWING WELL INVENTORY
 FLAGLER COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
PUBLIC DOMAIN	F-0239	FLOWING	-	-	292525	812530	-	-	2.00
UNDETERMINED	F210*	FLOWING	1.00	940.00	292522	812538	-	-	3.00
UNDETERMINED	F211*	FLOWING	1.00	-	292528	812549	-	-	3.00
UNDETERMINED	F212*	FLOWING	1.00	1410.00	292528	812553	-	-	4.00
UNDETERMINED	F214*	FLOWING	-	-	292521	812553	-	-	0.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
INDIAN RIVER COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
FRED TUERK	IR0034	FLOWING	2100.00	498.00	273747	803625	-	-	10.00	
INDIAN RIVER COUNTY	IR0303	UNDETERMINED	-	-	2744 6	803118	888	888	4.00	
INDIAN RIVER CO	IR0305	FLOWING	-	-	2734 4	8023 2	-	-	5.00	
KENNETH PRINCE	IR0311	FLOWING	-	662.00	273825	804613	-	-	6.00	
SJRWMD	IR0314	FLOWING	-	588.00	273649	804527	-	-	8.00	
SJRWMD	IR0315	FLOWING	-	363.00	273645	804525	-	-	8.00	
KENNETH PRINCE	IR0316	FLOWING	-	662.00	273815	804546	-	-	8.00	
SJRWMD	IR0317	FLOWING	-	783.00	273626	804632	-	-	8.00	
SJRWMD	IR0318	FLOWING	25.00	669.00	273738	804514	-	-	6.00	
JOHN MCCUE	IR0351	FLOWING	-	450.00	273831	802754	-	-	4.00	
SJRWMD	IR0357	FLOWING	100.00	306.00	273630	8046 3	888	888	6.00	
SJRWMD	IR0360	FLOWING	20.00	725.00	273714	804530	888	888	6.00	
SJRWMD	IR0453	FLOWING	350.00	777.00	273343	8045 7	888	888	6.00	
SJRWMD	IR0454	FLOWING	25.00	529.00	2734 1	804535	888	888	6.00	
SJRWMD	IR0455	FLOWING	250.00	502.00	2734 8	804421	888	888	6.00	
SJRWMD	IR0456	FLOWING	-	418.00	273424	804415	888	888	5.00	
SJRWMD	IR0457	FLOWING	-	428.00	273449	804411	888	888	6.00	
SJRWMD	IR0458	FLOWING	25.00	474.00	273425	804345	888	888	4.00	
SJRWMD	IR0459	FLOWING	175.00	83.00	273424	804344	888	888	6.00	
SJRWMD	IR0460	FLOWING	-	123.00	273450	804316	888	888	6.00	
SJRWMD	IR0461	FLOWING	-	603.00	2734 1	804232	888	888	6.00	
SJRWMD	IR0462	FLOWING	10.00	674.00	273357	804217	888	888	6.00	
SJRWMD	IR0463	FLOWING	28.00	62.00	273356	804314	888	888	6.00	
SJRWMD	IR0464	FLOWING	175.00	118.00	273343	804345	888	888	6.00	
TANEN	IR0467	FLOWING	-	-	273722	802248	-	-	4.00	
HABORA HENRY R.	IR0468	FLOWING	300.00	396.00	2745 1	803137	-	-	4.00	
BARATTA	IR0469	FLOWING	-	779.00	273525	802935	904	296	8.00	
ABC FRUIT CO.	IR0471	FLOWING	-	-	2733 3	802558	-	-	4.00	
J.V.D'ALBORA CO.	IR271	FLOWING	75.00	620.00	274653	8025 9	-	-	8.00	
MARTIN, GREGORY-TRUS	IR272	FLOWING	100.00	400.00	2740 3	802317	-	-	6.00	
KNIGHT, C. REED	IR273	FLOWING	-	500.00	273949	802321	-	-	6.00	
GRAVES BROS. CO.	IR288	UNDETERMINED	-	-	274448	802618	888	888	888.00	

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 THE FREE FLOWING WELL INVENTORY
 LAKE COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
U.S. FOREST SERVICE	L-0060	FLOWING	-	210.00	29 031	812328	-	-	6.00
UNDETERMINED	L-0201	FLOWING	-	11.00	284929	812949	-	-	10.00
A.M. COLLINS, JR	L1***	FLOWING	300.00	1360.00	291027	813211	-	-	10.00
UNDETERMINED	L2***	FLOWING	40.00	410.00	2910 2	813127	-	-	4.00
	4			340					

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 THE FREE FLOWING WELL INVENTORY
 NASSAU COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
COCHRAN JAMES	N-0028	FLOWING	-	28.00	303810	814557	-	-	2.00
STATE OF FLA-DNR	N-0030	FLOWING	-	-	303541	814951	-	-	2.00
MATANZAS PACKING CO.	N-0032	FLOWING	-	25.00	303354	813120	-	-	0.00
UNDETERMINED	N20**	FLOWING	10.00	30.00	3034 5	813118	-	-	4.00
JOHNSON LAKE	N21**	FLOWING	-	-	303549	813854	-	-	2.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 THE FREE FLOWING WELL INVENTORY
 ORANGE COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
CITY RIGHT OF WAY	OR1**	FLOWING	15.00	390.00	283214	805834	-	-	2.00
	1		15						

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
PUTNAM COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
UNDETERMINED	P-0017	UNUSED	50.00	8.00	293439	815242	-	-	3.00
CORPS OF ENGINEERS	P-0306	FLOWING	5.00	5.00	2933 0	815239	189	105	8.00
UNDETERMINED	P-0415	FLOWING	-	393.00	292634	813533	-	-	0.00
RAVINES STATE GARDEN	P-0418	FLOWING	10.00	203.00	293759	813834	401	86	3.00
TILTON	P-0452	FLOWING	-	671.00	294010	813429	-	-	4.00
ROBERT REVEL	P-0453	FLOWING	-	540.00	293957	8134 6	-	-	4.00
RAVINES STATE GARDEN	P-0454	FLOWING	-	150.00	293750	813853	888	888	4.00
RAVINES STATE GARDEN	P-0455	FLOWING	-	160.00	293750	813851	888	888	4.00
RAVINES STATE GARDEN	P-0456	FLOWING	-	140.00	293750	813850	888	888	4.00
RAVINES STATE GARDEN	P-0457	FLOWING	-	22.00	293754	813846	888	808	2.00
RAVINES STATE GARDEN	P-0458	FLOWING	-	20.00	2938 5	813852	888	888	2.00
RAVINES STATE GARDEN	P-0459	FLOWING	-	20.00	2938 6	813853	888	888	2.00
WHITEHEAD	P-0463	FLOWING	4.00	180.00	2937 7	813747	246	142	4.00
UNDETERMINED	P-0568	FLOWING	50.00	196.00	293856	813543	-	-	3.00
FLOYD U. D.	P-0569	FLOWING	-	-	294116	813515	-	-	6.00
UNDETERMINED	P414*	FLOWING	15.00	195.00	293531	813741	-	-	3.00
UNDETERMINED	P419*	FLOWING	15.00	95.00	294145	813723	-	-	2.00
UNDETERMINED	P424*	FLOWING	20.00	285.00	294012	813651	-	-	4.00
S.C.L. RAILROAD	P425*	FLOWING	-	-	293545	814059	-	-	2.00
RAFAEL PUIG	P428*	FLOWING	60.00	155.00	294516	813456	-	-	6.00
UNDETERMINED	P429*	FLOWING	25.00	180.00	293942	813612	-	-	4.00
UNDETERMINED	P430*	FLOWING	0.00	355.00	294110	813533	-	-	4.00
UNDETERMINED	P431*	FLOWING	125.00	-	2926 7	813155	-	-	6.00
UNDETERMINED	P432*	FLOWING	10.00	110.00	294032	813729	-	-	4.00
MEELEY REED	P433*	FLOWING	40.00	1755.00	292138	813751	-	-	4.00
GEORGIA PACIFIC	P434*	FLOWING	5.00	175.00	294028	813937	-	-	2.00
UNDETERMINED	P448*	FLOWING	-	220.00	293759	813835	-	-	4.00
UNDETERMINED	P449*	FLOWING	-	-	293358	814339	-	-	4.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
ST. JOHNS COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
ARNOLD JACK	SJ0008	UNUSED	-	-	295552	813317	888	888	4.00	WILL COST SHARE
STONE JAMES	SJ0038	FLOWING	-	1400.00	294212	813023	510	122	6.00	ASCS
UNDETERMINED	SJ0505	FLOWING	60.00	3500.00	295751	812653	-	-	4.00	
UNDETERMINED	SJ0506	FLOWING	30.00	54.00	295646	812638	-	-	4.00	
DNR	SJ0507	FLOWING	150.00	180.00	30 354	812222	368	300	3.00	
UNDETERMIND	SJ0509	FLOWING	66.00	100.00	30 355	8123 9	-	-	4.00	
DRYSDALE	SJ0512	FLOWING	-	1600.00	294923	811623	-	-	6.00	
ST JOHNS CTY R OF WA	SJ0513	FLOWING	50.00	45.00	295457	812643	-	-	4.00	
UNDETERMINED	SJ0514	FLOWING	-	20.00	30 738	8123 4	-	-	6.00	
UNDETERMINED	SJ0519	FLOWING	-	73.00	295539	811744	888	888	6.00	
UNDETERMINED	SJ0520	FLOWING	-	70.00	295536	811743	888	888	4.00	
BEN ROBINSON	SJ0531	FLOWING	-	39.00	295114	812949	-	-	4.00	
DOT	SJ0560	FLOWING	-	168.00	295410	811845	888	888	6.00	
UNDETERMINED	SJ0569	FLOWING	10.00	67.00	295638	812014	-	-	0.00	
TOMMY MILLER	SJ0597	FLOWING	-	1871.00	294053	812842	375	104	6.00	
JOHNS DANNY	SJ0600	FLOWING	-	-	294024	812957	406	110	4.00	

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
SEMINOLE COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
UNDETERMINED	S-0056	UNUSED	-	580.00	284853	811737	888	888	3.00
MILTON QUATTLEBAUM	S-0059	FLOWING	-	-	284153	811014	-	-	6.50
SEMINOLE COUNTY	S-0060	FLOWING	-	-	284333	811633	-	-	0.00
MERLE PARKER	S-0061	FLOWING	-	-	2844 0	811624	-	-	0.00
LINDA SUTAY	S-0064	FLOWING	-	-	284153	811018	-	-	0.00
FLORIDA GAME COMM	S-0084	UNUSED	-	-	2843 2	811016	68	68	3.00
COUNTY RIGHT OF WAY	S-0099	FLOWING	20.00	2050.00	2944 4	811626	-	-	2.00
DUDA A	S-0100	FLOWING	30.00	11.00	283858	811428	-	-	4.00
DUDA, A	S-0101	FLOWING	30.00	12.00	2839 1	811422	-	-	3.00
DUDA, A	S-0102	FLOWING	-	-	2839 2	811430	-	-	4.00
DUDA, A	S-0103	FLOWING	25.00	13.00	2839 5	811426	-	-	6.00
STATE RIGHT OF WAY	S-0113	FLOWING	-	-	2843 5	811920	-	-	3.00
UNDETERMINED	S-0115	FLOWING	-	-	294010	812628	-	-	2.00

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
THE FREE FLOWING WELL INVENTORY
VOLUSIA COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDES PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL COMMENTS DIAM
UNDETERMINED	V-0073	FLOWING	30.00	25.00	285213	811655	-	-	0.00
W.L. TOMPKINS-LEASEE	V-0074	FLOWING	15.00	-	291015	812157	-	-	4.00
UNDETERMINED	V-0094	FLOWING	70.00	1070.00	295144	815221	-	-	8.00
UNDETERMINED	V-0158	FLOWING	-	987.00	29 030	812253	-	-	4.00
CITY OF NEW SMYRNA B	V-0180	FLOWING	-	-	29 1 3	805519	990	130	12.00
VOLUSIA COUNTY	V-0182	FLOWING	5.00	-	29 134	805727	-	-	2.00
UNDETERMINED	V-0201	FLOWING	-	228.00	29 148	805728	-	-	6.00
GRAY	V-0375	FLOWING	200.00	9770.00	285146	811843	340	22	6.00
UNDETERMINED	V-0497	FLOWING	-	13.00	29 917	812222	-	-	4.00
MURRY SAMS	V49**	FLOWING	300.00	520.00	29 8 5	812153	-	-	12.00
MURRY SAMS	V50**	FLOWING	50.00	510.00	29 8 5	812156	-	-	8.00
J.E. PEARSON	V55**	FLOWING	1.00	30.00	295621	81 538	-	-	1.00
J.E. PEARSON	V56**	FLOWING	1.00	30.00	295621	81 538	-	-	2.00
STONE IS. HOMEOWNERS	V57**	FLOWING	40.00	650.00	295042	8114 8	-	-	8.00
STONE IS. HOMEOWNERS	V58**	FLOWING	10.00	620.00	295044	8114 1	-	-	3.00
UNDETERMINED	V59**	FLOWING	5.00	1690.00	285245	812143	-	-	3.00
UNDETERMINED	V60**	FLOWING	50.00	70.00	2915 3	81 718	-	-	4.00
UNDETERMINED	V61**	FLOWING	10.00	50.00	29 513	81 247	-	-	3.00

		18		787					
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		350		14,587					

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
ALLEN, NORMAN	BR0069	PLUGGED	175.00	1590.00	275838	8031 9	346	102	4.00	PLUGGED 3/27/87
BREVARD CO. MC	BR0080	PLUGGED	200.00	234.00	275227	8028 3	406	103	4.00	PLUGGED 9/15/82
SEAGRAPE AVE	BR0082	PLUGGED	220.00	344.00	2753 1	8028 4	393	100	4.00	PLUGGED 9/22/82
BREVARD COUNTY	BR0083	PLUGGED	126.00	230.00	2753 5	8028 4	363	103	3.00	
HONEST JOHNS FISH CP	BR0091	PLUGGED	5.00	320.00	2756 9	803024	363	103	4.00	PLUGGED 9/29/82
HONEST JOHNS FISH CP	BR0093	PLUGGED	100.00	357.00	275628	803032	403	0410	4.00	
GDC PORT MALABAR	BR0258	PLUGGED	250.00	800.00	275459	804011	336	107	6.00	PLUGGED 1984
GDC PORT MALABAR	BR0259	PLUGGED	360.00	445.00	275530	804050	-	-	6.00	PLUGGED 1984
GDC PORT MALABAR	BR0261	PLUGGED	15.00	750.00	275548	804135	316	93	4.00	PLUGGED 4/24/86
GDC PORT MALABAR	BR0262	PLUGGED	360.00	820.00	275546	804145	299	123	6.00	PLUGGED 1984
GEN DEVELOP CORP.	BR0265	PLUGGED	350.00	660.00	275648	804221	314	74	4.00	PLUGGED 4/22/86
GDC PORT MALABAR	BR0278	PLUGGED	50.00	665.00	275926	804146	347	127	4.00	PLUGGED 7/11/84
GDC PORT MALABAR	BR0282	PLUGGED	360.00	490.00	28 0 7	804337	349	87	6.00	PLUGGED 1984
JIM DIDATO	BR0359	PLUGGED	-	499.00	28 447	804141	450	85	4.00	PLUGGED 3/17/87
KENNEDY SPACE CENTER	BR0367	PLUGGED	200.00	1820.00	283414	803912	225	131	4.00	PLUGGED 1984
BREVARD CO. M. C.	BR0394	PLUGGED	200.00	1162.00	281746	804027	290	-	4.00	
STATE OF FLORIDA	BR0409	PLUGGED	165.00	207.00	275211	802722	448	102	4.00	
STATE OF FLORIDA	BR0410	PLUGGED	190.00	200.00	275217	802721	377	81	3.00	
ENTERPRISE INTERNATI	BR0432	PLUGGED	75.00	865.00	281830	804420	132	84	4.00	PLUGGED 6/5/85
MEYERS, JAMES	BR0433	PLUGGED	77.00	968.00	281525	803950	220	-	4.00	PLUGGED 5/27/87
AQUARINA	BR0437	PLUGGED	5.00	250.00	275520	802937	439	195	4.00	
AQUARINA #2	BR0438	PLUGGED	0.00	-	275532	802921	378	103	4.00	
SJRWMD	BR0486	PLUGGED	-	623.00	275040	8045 2	300	-	3.00	
SJRWMD	BR0487	PLUGGED	-	331.00	275040	804529	295	114	3.00	
CURRY, T. BRADLEY	BR0488	PLUGGED	-	700.00	281732	804023	221	104	4.00	PLUGGED 4/13/87
GAUPP M.K.	BR0492	PLUGGED	-	944.00	2819 8	804241	202	142	4.00	PLUGGED 3/24/87
ISINGS HANK	BR0494	PLUGGED	500.00	333.00	275314	803025	500	-	6.00	PLUGGED 4/3/87
BROWNRING LYNN	BR0496	PLUGGED	60.00	519.00	275751	803235	250	-	4.00	PLUGGED 3/31/87
WALDEN, F.E	BR0498	PLUGGED	55.00	911.00	281842	804224	150	-	4.00	PLUGGED 3/13/87
THOMPSON, DEE	BR0500	PLUGGED	-	-	282130	8045 4	240	200	4.00	PLUGGED 3/13/87
DAVIS	BR0502	PLUGGED	75.00	-	281557	804017	261	888	4.00	
BROWNING LYNN	BR0503	PLUGGED	30.00	475.00	275749	803240	250	-	2.00	PLUGGED 3/31/87
KUHL	BR0504	OBSERVATION	23.00	578.00	28 431	8036 2	505	300	2.00	RECONS. 6/2/87
JACK FAULL	BR0506	PLUGGED	-	-	282024	804438	150	-	3.00	PLUGGED 4/16/87
BREVARD COUNTY	BR0507	PLUGGED	100.00	-	2821 8	804642	150	-	4.00	PLUGGED 4/16/87
RADENCIC, W.	BR0508	PLUGGED	100.00	550.00	275838	8033 1	250	-	3.00	PLUGGED 5/1/87
L.C. JUDD & CO.	BR0509	PLUGGED	-	-	28 445	804140	184	83	6.00	PLUGGED/87
BREV. CO.	BR0511	PLUGGED	-	-	28 8 4	804118	350	80	2.00	PLUGGED 3/30/87
JACKS GLADYS	BR0512	PLUGGED	15.00	410.00	28 143	803511	405	190	2.00	PLUGGED/87
EMERSON RICHARD M	BR0513	PLUGGED	15.00	571.00	28 711	803751	-	-	1.50	PLUGGED/87
SENT M.S.	BR0514	PLUGGED	20.00	735.00	281019	803714	230	-	3.50	PLUGGED 5/28/87
ROME SIM	BR0515	PLUGGED	-	-	282336	804225	180	-	2.00	PLUGGED/87
IRSLINGER JOHN	BR0516	PLUGGED	20.00	1453.00	282625	804245	210	-	4.00	PLUGGED/87
CITY OF MELBOURNE	BR0517	PLUGGED	90.00	755.00	28 449	803738	240	-	4.00	PLUGGED 5/28/87
JURGENS RODNEY	BR0518	PLUGGED	10.00	696.00	28 940	803513	220	-	2.00	PLUGGED 6/3/87

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
KROLL TED	BR0519	PLUGGED	20.00	755.00	28 940	803514	220	-	2.00	PLUGGED/87
BREVARD COUNTY	BR0520	PLUGGED	10.00	2070.00	2822 4	804214	220	-	2.00	PLUGGED 5/29/87
CRISAFULLI BUD	BR0521	PLUGGED	95.00	1830.00	282625	804310	200	-	3.00	PLUGGED 6/12/85
CRISAFULLI, B.	BR0533	PLUGGED	75.00	1300.00	2828 8	804221	135	89	4.00	
FED NATL WILD REFUGE	BR0587	PLUGGED	25.00	7500.00	283944	804633	200	114	4.00	PLUGGED 1984
FEDERAL (KSC)	BR0588	PLUGGED	50.00	1370.00	283134	8038 2	246	139	4.00	
FOOSANER	BR0590	PLUGGED	100.00	1840.00	282756	8041 8	202	84	3.00	PLUGGED 6/11/85
FOOSANER	BR0591	PLUGGED	100.00	1660.00	282757	804117	183	86	4.00	PLUGGED 6/12/85
FOOSANER	BR0594	PLUGGED	75.00	1520.00	282755	8041 6	212	36	4.00	PLUGGED 6/11/85
JACK SIMPSON	BR0602	PLUGGED	50.00	1541.00	282218	804643	371	112	4.00	PLUGGED 5/30/85
NASA-KSC	BR0608	OBSERVATION	50.00	1457.00	282921	804048	321	75	8.00	RECON. 1986
NASA-KSC	BR0609	PLUGGED	135.00	3550.00	2829 7	8041 1	371	100	8.00	
BAKER HARVERY L. JR.	BR0641	PLUGGED	-	-	2822 5	804155	242	120	4.00	PLUGGED 6/4/87
GDC	BR0646	PLUGGED	150.00	721.00	275552	804222	242	116	6.00	PLUGGED 4/23/86
GDC	BR0648	PLUGGED	-	653.00	275657	8042 2	-	-	6.00	
GDC	BR0652	PLUGGED	220.00	470.00	2756 7	804247	288	103	4.00	PLUGGED
GDC	BR0656	PLUGGED	150.00	100.00	275652	804250	122	120	4.00	PLUGGED 4/24/86
FOOSANER	BR0661	PLUGGED	100.00	-	282759	8041 8	220	-	4.00	PLUGGED 6/12/85
CITY OF COCOA BEACH	BR0662	PLUGGED	150.00	-	282115	803620	330	888	4.00	6/9/85
PATRICK AFB	BR0663	PLUGGED	311.00	-	2813 6	803624	263	102	6.00	PLUGGED 8/11/85
BREWER, GRAY	BR0664	PLUGGED	50.00	4220.00	282622	804534	-	-	2.00	PLUGGED 6/14/85
PATRICK AFB	BR0665	PLUGGED	400.00	860.00	281130	803617	283	92	4.00	PLUGGED 4/29/86
PATRICK AFB	BR0666	PLUGGED	215.00	1740.00	281122	803614	278	93	3.50	PLUGGED 4/30/86
PATRICK AFB	BR0667	PLUGGED	222.00	924.00	281127	803612	354	92	4.00	PLUGGED 7/14/86
PATRICK AFB	BR0668	PLUGGED	294.00	756.00	281127	8036 4	492	93	4.00	PLUGGED 7/14/86
PATRICK AFB	BR0669	PLUGGED	346.00	924.00	281124	8036 5	383	92	4.00	PLUGGED 7/15/86
PATRICK AFB	BR0677	PLUGGED	328.00	1390.00	281145	8036 6	476	95	4.00	PLUGGED 7/16/86
PATRICK AFB	BR0678	PLUGGED	222.00	828.00	281142	803612	383	94	4.00	PLUGGED 7/16/86
PATRICK AFB	BR0679	PLUGGED	215.00	790.00	281139	803613	363	94	4.00	PLUGGED 7/17/86
PATRICK AFB	BR0680	PLUGGED	412.00	944.00	281136	803514	497	92	3.50	PLUGGED 7/17/86
PATRICK AFB	BR0681	PLUGGED	385.00	690.00	281133	803611	382	94	4.00	PLUGGED 7/18/86
BREVARD CO MC	BR0694	PLUGGED	75.00	-	282420	804047	217	84	4.00	
BREVARD COUNTY	BR0696	PLUGGED	1400.00	202.00	275229	802954	743	194	10.00	PLUGGED 4/16/86
STEEL DAVE	BR0699	PLUGGED	280.00	-	282350	804310	308	95	6.00	PLUGGED 7/9/86
KLUG PETER	BR0700	PLUGGED	200.00	1470.00	2819 3	8041 9	240	888	6.00	PLUGGED 4/14/87
SPEARS	BR0701	PLUGGED	2.00	-	275229	802958	200	888	2.00	PLUGGED 4/18/86
CITY OF COCOA BEACH	BR0702	PLUGGED	250.00	900.00	281846	8038 9	265	233	6.00	PLUGGED 7/11/86
ARMSTRONG BILL	BR0703	PLUGGED	-	-	28 820	803537	888	888	2.00	PLUGGED 5/87
SUNSHINE NURSERY	BR0707	PLUGGED	130.00	496.00	275634	8031 7	300	-	2.00	PLUGGED 4/18/86
WEIGERIF E. L.	BR0709	PLUGGED	50.00	1430.00	281816	8040 1	218	98	6.00	PLUGGED 7/10/86
BETHESDA RET HOME	BR17*	PLUGGED	1400.00	580.00	28 135	803516	1360	330	4.00	PLUGGED
BEACHWOODS	BR227	PLUGGED	20.00	601.00	28 153	803231	-	-	1.50	
GEN. DEVELOP. CORP.	BR263	PLUGGED	250.00	728.00	275630	804121	378	82	2.00	PLUGGED 7/11/84
MTDCD	BR365	PLUGGED	13.00	735.00	275512	804122	-	-	2.00	PLUGGED 7/18/84
BREVARD CO.	BR386	PLUGGED	175.00	1060.00	282123	804017	228	100	4.00	PLUGGED 3/16/87

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
BREVARD COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
COUCH PUMPS	BR423	OBSERVATION	450.00	-	275553	803138	798	71	12.00	RECON. 184
CITY OF ROCKLEDGE	BR429	PLUGGED	150.00	1062.00	2819 2	8044 7	230	-	4.00	PLUGGED 6/11/85
NASA	BR589	PLUGGED	100.00	1180.00	282845	803935	-	-	4.00	
GEORGE BALL	BR592	PLUGGED	120.00	1800.00	281845	803636	260	66	4.00	PLUGGED 5/30/85
NASA	BR595	PLUGGED	200.00	-	283343	804014	190	83	4.00	PLUGGED 1984
NASA	BR610	PLUGGED	240.00	2550.00	282918	8041 0	366	113	6.00	PLUGGED 9/20/85
COUCH PUMPS	BR623	PLUGGED	623.00	590.00	275554	803138	628	159	8.00	PLUGGED
BREVARD CO. MC	BR78*	PLUGGED	170.00	227.00	2752 8	802717	449	102	4.00	PLUGGED 9/14/82
BREVARD CO. MC	BR81*	PLUGGED	10.00	229.00	275231	8028 7	203	103	4.00	PLUG 11/15/82
BREVARD CO. MC	BR65*	PLUGGED	290.00	267.00	275357	802817	-	-	4.00	PLUGGED 9/29/82
BREVARD CO. MC	BR66*	PLUGGED	200.00	214.00	275425	802838	358	101	4.00	PLUG 11/24/82
BREVARD CO. MC	BR37*	PLUGGED	50.00	260.00	275518	802936	496	-	4.00	PLUG 11/18/82
BREVARD CO. MC	BR98*	PLUGGED	200.00	1075.00	281829	804031	140	-	4.00	PLUGGED 6/6/85
WOLFMAN	BR99*	PLUGGED	200.00	1048.00	281850	804038	141	104	4.00	PLUGGED 5/23/85
REDER ALBERT	BR0490	PLUGGED	-	-	281739	804157	-	-	2.00	

	105		16,789							

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
 DUVAL COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
UNDERTIMINED	D-0430	PLUGGED	-	31.00	302318	813019	426	344	4.00	PLUGGED 5/20/87
	1			0						

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
REPORT ON
WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
FLAGLER COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
UNDETERMINED	F-0134	PLUGGED	-	1380.00	293338	8110 5	152	134	4.00	PLUGGED 1/30/85
UNDETERMINED	F-0213	PLUGGED	25.00	-	292519	812553	-	-	0.00	PLUGGED 1/22/85
HAMMOCK BAPTIST CHUR	F-0220	PLUGGED	30.00	-	293547	811147	-	-	4.00	PLUGGED 1/24/85
ARMOND FISHETTE	F-0221	PLUGGED	20.00	-	2935 1	811149	888	888	6.00	PLUGGED 1985
ARMOND FISHETTE	F-0222	PLUGGED	60.00	-	2935 4	811150	888	888	6.00	PLUGGED 1985
ITT PALM COAST	F-0223	PLUGGED	10.00	1600.00	2935 0	811135	888	888	6.00	PLUGGED 1985
SHAEFFER	F-0224	PLUGGED	5.00	-	292911	81 8 3	888	888	2.00	PLUGGED 2/7/85
HODGES	F-0237	PLUGGED	10.00	-	292517	812542	-	-	2.00	PLUGGED 1/23/85
HODGES	F-0238	PLUGGED	10.00	-	292517	812543	-	-	2.00	PLUGGED 1/23/85
IHLENFELDT	F-0253	PLUGGED	40.00	-	293628	8112 3	158	147	4.00	PLUGGED 2/4/85
SHOW, GEARLDINE	F-0254	PLUGGED	-	-	2937 9	811219	-	-	4.00	PLUGGED 1/31/85
WESTBROOK, J.H	F-0255	PLUGGED	10.00	-	293352	8111 1	138	87	2.00	PLUGGED 1/30/85
PUBLIC DOMAIN	F207*	PLUGGED	250.00	7560.00	2934 1	811111	-	-	6.00	PLUGGED 1984
WASHINGTON OAKS S.P.	F208*	OBSERVATION	70.00	-	293758	811232	380	-	4.00	RECONSTRUCTED
UNDETERMINED	F209*	PLUGGED	1.00	1020.00	292523	812538	-	-	6.00	PLUGGED 1/23/85

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
 INDIAN RIVER COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
SJRWMD	BR0493	PLUGGED	-	455.00	2750 5	8045 8	290	-	3.00	PLUGGED 4/28/87
SJRWMD	IR0135	PLUGGED	-	595.00	274658	8043 1	317	114	3.00	PLUGGED 4/20/87
SJRWMD	IR0306	PLUGGED	-	805.00	274722	8043 1	300	-	3.00	PLUGGED 4/20/87
SJRWMD	IR0307	PLUGGED	-	484.00	274658	8044 1	300	-	3.00	PLUGGED 4/20/87
SJRWMD	IR0308	PLUGGED	-	554.00	274724	8044 4	275	-	3.00	PLUGGED 4/21/87
SJRWMD	IR0309	PLUGGED	-	-	274745	8044 4	275	-	3.00	PLUGGED 4/21/87
SJRWMD	IR0310	PLUGGED	-	-	274710	804234	300	-	3.00	PLUGGED 4/24/87
SJRWMD	IR0347	PLUGGED	-	-	274552	8043 1	-	-	3.00	
SJRWMD	IR0348	PLUGGED	-	-	274615	8044 4	-	-	3.00	
SJRWMD	IR0349	PLUGGED	-	-	274617	8043 1	300	-	3.00	PLUGGED 4/22/87
SJRWMD	IR0397	PLUGGED	150.00	406.00	274026	803847	400	-	2.50	PLUGGED 4/30/87
SJRWMD	IR0398	PLUGGED	-	-	274040	803847	400	-	4.00	PLUGGED 5/5/87
SJRWMD	IR0399	PLUGGED	-	-	274047	8039 2	50	-	2.00	PLUGGED 4/29/87
SJRWMD	IR0400	PLUGGED	-	-	274053	803839	50	-	2.00	PLUGGED 4/29/87

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
 ST. JOHNS COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
MCCOOK MARY	SJ0024	PLUGGED	120.00	147.00	295327	811929	250	888	4.00	PLUGGED 3/25/86
PUBLIC DOMAIN	SJ0518	PLUGGED	-	-	295144	811556	888	888	6.00	
WELATKA FRUIT CO.	SJ0522	PLUGGED	310.00	2068.00	294137	812936	510	60	6.00	PLUGGED 5/28/86
WELATKA FRUIT CO	SJ0523	PLUGGED	100.00	1740.00	294134	812936	524	51	6.00	PLUGGED 5/22/86
WELATKA FRUIT CO	SJ0524	PLUGGED	135.00	5860.00	294136	812936	516	55	6.00	PLUGGED 5/21/86
WELATKA FRUIT CO	SJ0525	PLUGGED	130.00	1960.00	294129	812936	503	60	6.00	PLUGGED 5/30/86
WELATKA FRUIT CO	SJ0526	PLUGGED	130.00	1250.00	294126	812936	484	31	6.00	PLUGGED 6/9/86
WELATKA FRUIT CO.	SJ0527	PLUGGED	130.00	-	294131	812943	-	-	6.00	PLUGGED 6/9/86
WELATKA FRUIT CO	SJ0528	PLUGGED	-	-	294050	812944	-	-	6.00	PLUGGED
BULLSHIT RANCH&FARM	SJ0561	OBSERVATION	250.00	641.00	294155	813315	240	888	8.00	BACK PLUGGED
BULLSHIT RANCH&FARM	SJ0562	PLUGGED	1.00	-	2941 7	813048	120	888	3.00	PLUGGED 6/10/86
SINGLETON, JAMES	SJ0564	PLUGGED	-	418.00	293928	812958	256	76	3.00	PLUGGED 6/4/86
			12	1,306						

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
 SEMINOLE COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
FLORIDA GAME & FISH	S-0050	PLUGGED	55.00	1350.00	2843 6	811019	102	62	4.00	PLUGGED 9/22/87
FLORIDA GAME & FISH	S-0051	PLUGGED	10.00	1555.00	2843 6	811017	122	119	4.00	PLUGGED 9/23/87
FLORIDA GAME & FISH	S-0052	PLUGGED	-	1650.00	2843 6	811015	102	888	4.00	PLUGGED 9/23/87
FLORIDA GAME & FISH	S-0053	PLUGGED	-	1700.00	284310	811019	115	898	3.00	PLUGGED 9/22/87
FLORIDA GAME & FISH	S-0054	PLUGGED	-	1625.00	284310	811017	123	108	4.00	PLUGGED 9/23/87
FLORIDA GAME & FISH	S-0055	PLUGGED	10.00	1740.00	284310	811015	130	77	4.00	PLUGGED 9/22/87
FLORIDA GAME & FISH	S-0105	PLUGGED	-	-	284310	811020	120	-	3.00	PLUGGED 9/23/87

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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 REPORT ON
 WELLS PLUGGED AND RECONSTRUCTED BY THE FREE FLOWING WELL PROGRAM
 VOLUSIA COUNTY

WELL OWNER	WELL ID	STATUS	FLOW GPM	CHLORIDE PPM	LAT	LONG	WELL DEPTH	CASE DEPTH	WELL DIAM	COMMENTS
LAWERENCE FARMS, INC	V-0052	PLUGGED	30.00	1040.00	29 748	8121 9	-	-	8.00	
LAWERENCE FARMS, INC	V-0053	PLUGGED	30.00	1700.00	29 746	8121 9	-	-	8.00	PLUGGED 2/13/85
L. WOODRUFF WILDLIFE	V-0054	PLUGGED	25.00	83.00	29 324	812222	-	-	3.00	PLUGGED 2/14/85
UNION BAG	V-0154	PLUGGED	25.00	3460.00	291543	8132 6	116	90	2.00	
A. RICH	V-0159	PLUGGED	50.00	490.00	285645	805235	125	-	6.00	
SJRWMD	V-0200	OBSERVATION	290.00	14590.00	291031	8059 4	160	98	4.00	RECONSTRUCT/86
LAWERENCE FARMS, INC	V51**	PLUGGED	75.00	3780.00	29 752	8121 9	-	-	8.00	
	7			525						
	161			19,386						

APPENDIX C
CONTRACTUAL AND COOPERATIVE AGREEMENTS

APPENDIX C-1
COOPERATIVE AGREEMENT BETWEEN
SJRWMD AND BREVARD COUNTY

A G R E E M E N T

BETWEEN THE
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
AND THE
BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

THIS AGREEMENT is entered into on the 10th day of December, 1986, by and between the ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, hereinafter the "DISTRICT", and the BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS, hereinafter "BREVARD COUNTY".

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WHEREAS, the waters of the state are among its basic resources and it has been declared to be the policy of the legislature to promote the conservation, development, and proper utilization of surface and ground water, and

WHEREAS, the Legislature has directed the water management districts of the state in Section 373.207 (8)(a), Florida Statutes, to locate all known abandoned artesian wells and insure that each such well is plugged on or before January 1, 1992, and

WHEREAS, proper management of artesian wells is necessary to protect the public health, safety and welfare and to extend the life of the ground water supplies, and

WHEREAS, BREVARD COUNTY, based on information from its "208" program and other water resources investigations, has declared the waste of ground water by uncontrolled free flowing wells to be a serious concern, and

WHEREAS, BREVARD COUNTY has requested the DISTRICT to participate in a cooperative water resource conservation and protection program, and

WHEREAS, the DISTRICT has been established to manage water resources within its geographical area, and

WHEREAS, BREVARD COUNTY and the DISTRICT desire to jointly fund the plugging of uncontrolled free flowing wells located in Brevard County in the amount of Fifty-Thousand Dollars

NOW THEREFORE, in consideration of the foregoing premises, which are part of the consideration herein, the parties hereto do mutually agree as follows:

1. The DISTRICT will:
 - A. Obligate for the purposes of this Agreement monies in the amount of Twenty-five Thousand Dollars (\$25,000) for plugging uncontrolled free flowing wells in Brevard County. Said funds are budgeted in Fiscal Year 1985/1986 in Project No. 20-018-03;
 - B. Secure the services of a qualified water well contractor for the DISTRICT as follows:
 - 1) develop bid specifications for each well to be plugged in conjunction with BREVARD COUNTY; and,
 - 2) publish notice of solicitation of bids in a newspaper of general circulation in Brevard as minimum written notice; and,
 - 3) let bids and select a water well contractor that best qualifies to the specifications.
 - C. Enter into contracts with the water well contractors and then administer each contract as follows:
 - 1) control sub-contracting of services by any contractor who is a party to a contract with the DISTRICT requiring that no sub-contract can be entered into unless the DISTRICT first approves the sub-contractor as being qualified;
 - 2) notify BREVARD COUNTY upon execution of a contract that a contract has been entered and invoice BREVARD COUNTY for payment of one-half (1/2) of the amount of money obligated by the contract;
 - 3) do such other things as are necessary to administer the contracts;
 - D. Provide the professional and technical support to water well contractors that enter into contracts with the DISTRICT that is necessary to properly address all aspects of the purposes of this Agreement;
 - E. Provide monthly progress reports to BREVARD COUNTY regarding the progress of work contracted.

2. BREVARD COUNTY will:

- A. Obligate for the purposes of this Agreement monies in the amount of Twenty-five Thousand Dollars (\$25,000) for services relating to the plugging of uncontrolled free flowing wells and share expenses on a 50% basis with the DISTRICT for the services of a water well contractor and materials needed by the contractor;
- B. Pay the DISTRICT for work invoiced it by the DISTRICT up to a maximum of Twenty-Five Thousand Dollars (\$25,000) for work and services described in paragraph 2A above;
- C. Be responsible for obtaining the consent of the owner of a well for the contractor to plug free flowing wells and licenses for performing the above-mentioned work.

3. DISTRICT and BREVARD COUNTY shall prepare a final report.

4. This Agreement shall be effective upon the execution thereof and shall continue until September 30, 1986, except that performance under Paragraph 5 shall continue beyond that date. A contract between either of the parties hereto and a third party, that are called for by this Agreement, shall be governed by the terms of the contract entered into with a third party.

5. The DISTRICT agrees to indemnify and hold harmless BREVARD COUNTY for any tort liability that may be imposed on BREVARD COUNTY due to the action or inaction of DISTRICT while executing its responsibilities under this Agreement, and BREVARD COUNTY agrees to indemnify and hold DISTRICT harmless for any tort liability that may be imposed on DISTRICT due to the action or inaction of BREVARD COUNTY while executing its responsibilities under this agreement.

IN WITNESS WHEREOF, the parties hereto have duly executed this agreement on the date and year ascribed above.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

By: 
RALPH J. SIMMONS, Chairman

ATTEST:


LYNNE C. CAPEHART, Secretary

Vance Kisten
Legal Form Content Approved

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

By: Thad Altman
THAD ALTMAN, Chairman

ATTEST:

R. C. Winstead
R. C. WINSTEAD, Clerk

Winneth A. Roberts
Legal Form Content Approved

APPENDIX C-2

CONTRACT AGREEMENT BETWEEN SJRWMD
AND BLACKHAWK DRILLING AND BORING INC

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into this 29th day of
December, in the year 1986 by and between the ST.
JOHNS RIVER WATER MANAGEMENT DISTRICT, as party of the First
part, hereinafter called the Owner, and Blackhawk Drilling and
Boring, Inc., party of the Second Part, hereinafter called the
Contractor.

WITNESSETH, that the said Contractor, for and in con-
sideration of the payments hereinafter specified and agreed to be
made by the Owner, hereby covenants and agrees to furnish and
deliver all the materials, to do and perform all the work and
labor required to be furnished and delivered, done and performed
for the plugging of uncontrolled artesian wells in the St. Johns
River Water Management District, Florida in accordance with the
proposal herein, and to complete the work and entire conformity
with the Drawings, Specifications and other Contract Documents on
file at the ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, which are
duly approved and which said Drawings and Specifications and
other Contract Documents are hereby made part of this Agreement
as fully and with the same effect as if the same had been set
forth at length in the body of this Agreement.

The Contractor shall complete the Work within one year of
the date of the Notice to Proceed. Time is of the essence of
this Contract Agreement.

The Contractor agrees to make payment of all proper
charges for labor and materials required in the aforementioned
work, and to defend, indemnify, and save harmless the owner and
all of its officers, agents and servants, and each and every one
of them, against and from all damages to which the said Owner or
any of their officers, agents, employees or servants may be put,
by reason of injury to the persons or property of others result-
ing from the performance of said Work, or through the negligence
of the Contractor, or through any improper or defective
machinery, implements or appliances used by the Contractor in the
aforesaid Work or through any act or omission on the part of the
Contractor, his agents, employees, servants or any other person
or entity for whom the Contractor is responsible.

If the Contractor shall fail to comply with any of the
terms, conditions, provisions, or stipulations of this Contract,
according to the true intent and meaning thereof, then the Owner
may avail himself of any, or all remedies provided in the Contract
and shall have the right and power to proceed in accordance with
the provisions thereof.

It is also agreed and understood that the acceptance of
final payment by the Contractor shall be considered as a release
in full of all claims against the Owner or any of its members,
agents and employees arising out of, or by reason of, the work
done and materials furnished under this Contract.

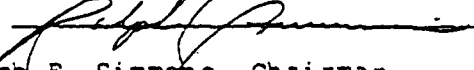
In consideration of the premises, the Owner will pay to
the Contractor for the said Work, when fully completed, the Total
Bid Price of \$84.00 per hour rig time, subject to such additions
and deductions as may be provided for in the Contract Documents.
Payments shall be made upon the terms set forth in the Contract
Documents, in a total amount not to exceed \$35,000.

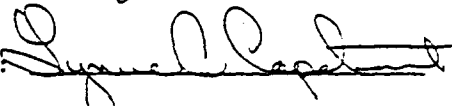
Unless otherwise declared in an addendum hereto,
Contractor warrants to Owner that no member, officer or employee
of the Owner has any material interest (as defined in Section
112.312(1), Florida Statutes), either directly or indirectly, in
the business of the Contractor to be conducted hereunder, and
that no such person shall have any such interest at any time
during the term hereof.

IN WITNESS WHEREOF, the said ST. JOHNS RIVER WATER MANAGEMENT DISTRICT has caused this Contract to be executed in its name by its Chairman, attested by its Secretary, and has caused its seal to be hereto attached; and the Contractor has caused this Contract to be executed in its name by its duly authorized representatives, and, if appropriate, has caused the seal of the corporation to be hereunto attached, all on the day and year first above written.

Signed, sealed and delivered
in the presence of:

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT


BY: 
Ralph E. Simmons, Chairman

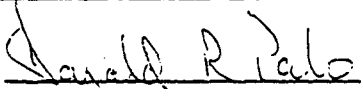
Attest: 
Lynne C. Caphart, Secretary

(SEAL)

(CORPORATE CONTRACTOR)


Blackhawk Drilling & Boring Inc.

By: 
Peter Osman, President

Attest: 
Donald R. Palo, Secretary

(CORPORATE SEAL)

APPROVED AS TO FORM AND LEGALITY


JOHN W. WILLIAMS
Staff Attorney

APPENDIX D

ABANDONED ARTESIAN WELL
PLUGGING PROGRAM
GUIDELINES AND PROCEDURES

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
ABANDONED ARTESIAN WELL PLUGGING PROGRAM
GUIDELINES AND PROCEDURES

1. When an abandoned artesian well is located by District personnel, pertinent information concerning the well (location, size, owner, etc.) is forwarded to the Abandoned Artesian Well Plugging Program project manager in the Water Resources Department.
2. The project manager will send a letter by certified mail, return receipt requested, to the owner advising him of:
 - 1) the apparent existence of an abandoned artesian well on his property.
 - 2) the statutory responsibilities concerning such wells.
 - 3) the District's cost-sharing well plugging program which will provide appropriate well plugging services at a cost to the owner of fifty percent (50%) of the total cost of plugging each well or \$600 per well, whichever is less. The owner's share of cost may be paid for in cash, materials and/or services or any combination of these. If state funding is received in an amount adequate to perform the annual plugging program as proposed to DER, then the District may elect to increase its share of the cost sharing percentage.
3. The letter referred to in No. 2 will be accompanied by an acknowledgement form to be returned to the District within 45 days. If this form is not returned, a second letter will be sent by the project manager. This letter will provide a 30 day response period. If no response is received, then the Resource Management Department will be notified by the project manager.
4. Upon such notification, the Resource Management Department will investigate the well to determine if it is an abandoned artesian well which should be plugged pursuant to the provisions of Chapter 373.206, .209 .213, and .316 F.S.
5. If it is determined that the well should be plugged pursuant to the provisions of Chapter 373.206, .209, 213 and .316 F.S., appropriate enforcement action will be taken.
6. If the owner notified as per No. 2 above indicates that he is unwilling to participate in the District sponsored project then notification will be forwarded to the Resource Management Department. The Resource Management Department will proceed as per Nos. 4 and 5.
7. If the owner indicates (on the form referred to in No. 3) a willingness to cooperate then his well will be added to the list of wells and no enforcement action will be taken against the owner at least as long as these guidelines and procedures are in effect.

8. Wells which are considered an imminent hazard to public health, safety and welfare will be placed first in the priority order of plugging. Prioritization of all other wells to be plugged will be based on relative harm to the water resources as per Chapter 373.206 F.S. and as outlined in the District's "Annual Report on Uncontrolled Free-Flowing Artesian Wells", 1985 (copy attached). Wells which pose a lesser threat to the water resources, i.e. only waste water, will be grouped in the lowest priority category, but may be moved up in priority during any fiscal year if other contractual well plugging is proceeding in the areas of these wells, making their ~~plugging financially advantageous.~~ The project manager will be responsible for keeping the prioritized list of wells to be plugged.
9. Arrangements for receipt of funds from the cooperative owner will be made pursuant to a written agreement to be entered into before any work is performed by the District on the well. The owner will be notified of the proposed plugging date at least three months prior to that date.
10. Owners of wells currently included on the District's Abandoned Artesian Well Plugging Program inventory and not scheduled for plugging during FY 86-87 will be notified of the change in the program and will be asked to complete and return the form described in No. 3. All provisions of these guidelines and procedures shall be applicable to them.
11. For those wells which are referred to the Resource Management Department as per Nos. 3 and 6, the Resource Management Department will notify the Water Resources Department project manager of information concerning final action. This information will be included in the program records.

AGREEMENT BETWEEN

THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

AND

THIS AGREEMENT is made and entered into this ___ day of _____ 19___, by and between the ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, a public body created pursuant to Chapter 373, F.S., hereinafter referred to as the "DISTRICT", and _____ hereinafter referred to as the "OWNER".

WITNESSETH

WHEREAS, the waters of the State of Florida are among its basic resources and it has been declared to be the policy of the Legislature to promote the conservation, development, and proper utilization of surface and ground water; and

WHEREAS, pursuant to Chapter 373, Florida Statutes, the DISTRICT has been established to manage water resources within its geographical area; and

WHEREAS, pursuant to Section 373.207(8)(a), Florida Statutes, the Legislature has directed the water management districts of the state to locate all known abandoned artesian wells and insure that each such well is plugged on or before January 1, 1992; and

WHEREAS, proper management of artesian wells is necessary to protect the public health, safety and welfare and to extend the life of the ground water supplies; and

WHEREAS, an abandoned artesian well is located on the property of the OWNER; said property being identified in Exhibit "A" attached hereto and by reference made a part hereof; and

WHEREAS, the OWNER and the DISTRICT desire and intend to bring into compliance the aforementioned abandoned artesian well by utilizing DISTRICT staff and equipment and/or by obtaining the services of qualified independent contractors.

NOW, THEREFORE, for and in consideration of the foregoing premises, which are part of the consideration herein, the parties hereto do mutually agree as follows:

I. The DISTRICT shall:

- A. Undertake the plugging or reconstruction of the subject well(s) located on the property identified in Exhibit "A".
- B. As necessary, enter into a contract with a licensed water well contractor and administer the contract;
- C. Provide the professional and technical support necessary to properly address all aspects of the Agreement;
- D. Provide a report to the OWNER regarding the progress and completion of plugging the subject well.
- E. Obligate for the purposes of this agreement monies to cover the difference between the OWNER's contribution and the total cost, to complete the plugging or reconstruction of the well(s). The DISTRICT's obligation will be a minimum of 50% or a maximum of total cost minus six hundred dollars (\$600.00) for materials, site work and contractual services, per well.
- F. Pay the independent water well contractor (when applicable) for work performed and invoice the OWNER for his cost share.

II. The OWNER shall:

- A. Grant to the DISTRICT the right to plug the well(s) located on the OWNER's property, identified in Exhibit "A".
- B. Grant to the DISTRICT reasonable ingress and egress for access to and from the well site and the right to transport, place, and remove construction equipment and vehicles used in connection with the plugging of the subject well(s).
- C. Provide for the purposes of this Agreement, monies to cover 50% of costs for all materials, site work and independent contractual services, in an amount not to exceed six hundred dollars (\$600.00) per well for materials and services described above. The OWNER shall further have the option to pay all or part of his share through the provision of in-kind services and/or materials as approved by the DISTRICT'S Project Manager. The type and value of these services and materials will be mutually agreed to in writing prior to commencement of work.
- D. Pay to the DISTRICT, within 30 days of receipt of invoice, up to a maximum of six hundred dollars (\$600.00) for materials and services described above.
- E. Defend, indemnify, save and hold harmless the DISTRICT, its officers, agents, servants and employees, from suits, costs, claims, judgements for injury or damages to which the DISTRICT, or any of its officers, agents or servants, may be subjected by reason of injury to the OWNER(S) resulting from the performance of the repairing/plugging of well(s) or the omissions of the DISTRICT, its agents, servants, employees, and contractor or subcontractor, suppliers, materialmen or their employees.

F. The term of this Agreement will be from the date of its execution until all work has been completed and payment made.

PROPERTY OWNER

ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT

By: _____

By: _____
John L. Minton, Chairman

Attest: _____
Saundra H. Gray, Secretary

APPROVED AS TO FORM AND LEGALITY

John W. Williams, Staff Attorney