CITRUS COUNTY CENTRAL LANDFILL

60 ACRE CLOSURE SITE

APPLICATION FOR PERMIT RENEWAL

LONG TERM CARE

PERMIT NO. SF09-211030

APPLICATION FOR PERMIT RENEWAL

LONG TERM CARE

CITRUS COUNTY CENTRAL LANDFILL

60 ACRE CLOSURE SITE

PERMIT NO. SF09-211030

BY

DEPARTMENT OF TECHNICAL SERVICES

DIVISION OF AQUATICS AND SOLID WASTE MANAGEMENT

Thomas H. Dick, Director

P. O. Box 440
Lecanto, Florida 34460
(904) 746-5000

OCTOBER, 1992

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CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 32661-0440
(904) 746-2694 • FAX (904) 746-9874

Reply To:

Division Aquatics and
Solid Waste Management
P. O. Box 440
Lecanto, FL 34460-0440
(904) 746-5000
FAX (904) 527-1204

October 22, 1992

Robert J. Butera, P.E.
Solid Waste Manager
Division of Waste Management
Dept. of Environmental Regulation
Southwest District
3804 Coconut Palm Drive
Tampa, FL 33619-8318

Dear Mr. Butera:

Transmitted herewith is one(1) original and three(3) copies of Citrus County's

Application for Permit Renewal
Long Term Care
60 Acre Closure Site
Permit No. SF09-211030

Please note that a budget for the financial responsibility associated with long term care costs is scheduled for adoption at the October 27, 1992 Board of County Commission Meeting. This item is discussed in Appendix IX.

Should additional information or clarification of the contents of this application be needed, please contact me.

Very truly yours,

Thomas H. Dick, Director,
Division Aquatics and Solid Waste Management

THD:cms

cc: James W. Pinkerton, Dir. Dept. Technical Services
Mike Moore, Projects Engineer

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

~~~~~~~~~~~~ MEMORANDUM ~~~~~~~~~~~~

TO: James W. Pinkerton, Dir., Dept. of Technical Services

FROM: Robert M. Hoki, Dir., Div. of Management Services

DATE: October 13, 1992

RE: Creation of Landfill Long-Term Care Cost Budget

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The State Department of Environmental Regulation (DER) requires that we budget long-term care costs for the closed 60-acre landfill site annually. The attached letter dated October 4, 1991 explains DER's requirement that long-term care costs be deposited annually in the Landfill Closure fund.

In a meeting with Gary Herndon last week, he expressed his preference that we create a new set of budget accounts in the Landfill fund rather than using the Closure fund to account for long-term care costs. In the past we have paid long-term care costs related to the closed 60-acre landfill through both the Landfill's operating budget and the Closure fund.

We are also requesting that funds budgeted for groundwater monitoring and leachate treatment for the 80-acre landfill be transfered to the new fund. Many of the monitoring and operating costs for both sites are obtained from the same vendors using the same contracts for service. Transfer of funds budgeted for these services at both sites to one set of accounts will simplify accounting and payment procedures.

Attached is a memo to Gary Herndon requesting the creation of a Landfill Long-Term Care fund and a request to transfer funds from the landfill's operating budget to the long-term care fund. I have also attached a proposed budget for the new fund.

RMH/

Attachments

cc: Anthony L. Shoemaker, County Administrator
Thomas H. Dick, Dir., Aquatics & Solid Waste Mgmt. Division

RECEIVED
OCT 16 1992

James W. Pinkerton, P.E.
County Engineer and Director

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

~~~~~~~~~~~~ MEMORANDUM ~~~~~~~~~~~~

TO: Gary Herndon, Finance Director

FROM: Robert M. Hoki, Dir., Div. of Management Services

DATE: October 13, 1992

RE: FY 1992-93 Landfill Long-Term Care Costs

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The State Department of Environmental Regulation (DER) requires that we budget long-term care costs for the closed 60-acre landfill site annually. The attached letter dated October 4, 1991 explains DER's requirement that long-term care costs be deposited annually in the closure fund. In the past we have paid long-term care costs related to the closed landfill site through the landfill's operating budget rather than budgeting for them separately.

As we discussed Friday, I am submitting a request to transfer funds budgeted for leachate treatment and groundwater monitoring at the 80-acre landfill along with funds budgeted for long-term care of the 60-acre site to a new fund for long-term care costs. Many of the monitoring and operating costs for both sites are obtained from the same vendors using the same contracts for service. Transfer of funds budgeted for these services at both sites to one set of accounts will simplify accounting and payment procedures.

Attached is a request to transfer funds from several accounts in the Landfill budget (401-5212) to a new Landfill Long-Term Care budget in the Landfill fund (401-____). Please assign a department number to this budget and forward the request to the Board of County Commissioners for their approval.

RMH/

Attachment

cc: Anthony L. Shoemaker, County Administrator
James W. Pinkerton, Dir., Dept. of Technical Services
Thomas H. Dick, Dir., Aquatics & Solid Waste Mgmt. Division

CITRUS COUNTY BOARD OF COMMISSIONERS
BUDGET TRANSFER

DATE: OCTOBER 13, 1992

PREPARED BY: ROBERT M. HOKI (JS)

EXPLANATION: TRANSFER OF LANDFILL LONG-TERM CARE FUNDS TO SEPARATE FUND TO COMPLY WITH F.D.E.R. REGULATIONS, SEE ATTACHED MEMOS AND D.E.R. LETTER DATED OCTOBER 04, 1991.

FUND DESCRIPTION 401

DIVISION(S) AQUATICS & SOLID WASTE MANAGEMENT

DEPARTMENT NUMBER	ACCOUNT NUMBER	FROM	TO	ACCOUNT DESCRIPTION
5212	53400	$ 41,220	$	OTHER CONTRACTUAL SERVICES
5212	54300	18,000		UTILITY SERVICES
5212	54605	5,000		EQUIPMENT MAINTENANCE
5212	54912	5,000		FEES & PERMITS
5212	55210	19,100		MISCELLANEOUS SUPPLIES
	53400		$ 39,220	OTHER CONTRACTUAL SERVICES
	54300		16,000	UTILITY SERVICES
	54605		5,000	EQUIPMENT MAINTENANCE
	54912		1,000	FEES & PERMITS
	55210		27,100	MISCELLANEOUS SUPPLIES

FINANCE DEPARTMENT: APPROVAL _____ DATE _____ BOARD APPROVAL

ANNUAL COST OF LONG TERM CARE
CENTRAL LANDFILL
CITRUS COUNTY, FLORIDA

	ITEM	80-ACRE COST	60-ACRE COST	AMOUNT BUDGETED
1.	GOUNDWATER MONITORING			
	Quality Sampling	$ 7,429	$ 5,571	$ 13,000
	Well Maintenance	$ 571	$ 429	$ 1,000
2.	GAS MONITORING			
	Testing	$ 0	$ 1,000	$ 1,000
	Burner Maintenance	$ 0	$ 3,000	$ 3,000
3.	LEACHATE COLLECTION SYSTEM			
	Maintenance	$ 2,857	$ 2,143	$ 5,000
4.	LEACHATE TREATMENT			
	Plant Operation	$ 8,250	$ 750	$ 9,000
	Chemicals/Supplies	$ 18,333	$ 1,667	$ 20,000
	Utilities, Electric	$ 14,667	$ 1,333	$ 16,000
	Testing	$ 12,118	$ 1,102	$ 13,220
5.	BENCHMARK MAINTENANCE	$ 0	$ 0	$ 0
o.	LANDSCAPE MAINTENANCE	$ 0	$ 0	$ 0
7.	SITE MAINTENANCE			
	Erosion Control	$ 0	$ 1,000	$ 1,000
8.	ADMINISTRATION			
	DER Permits	$ 0	$ 1,000	$ 1,000
	Aerial Survey	$ 1,714	$ 1,286	$ 3,000
9.	REMEDIAL ACTION	$ 0	$ 2,100	$ 2,100
	TOTAL ANNUAL COST	$ 65,939	$ 22,381	$ 88,320

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400
Lawton Chiles, Governor
Carol M. Browner, Secretary

TO: Solid Waste Management Facility Owners
Directors of District Management
District Waste Program Administrators

OCT 8 1991

FROM: John M. Ruddell, Director
Division of Waste Management

DATE: October 4, 1991

SUBJECT: Closure/Long-term Care Cost Financial Responsibility Agency Policy

The 1988 Florida Solid Waste Management Act revised the closure financial responsibility requirements for owners of landfills in Florida. The act's impact on government-owned landfills was great since for the first time it required proof (in the form of up-front dollars) that funds are available to ensure the proper closure of the landfill.

Conversations with local governments over the past 18 months, and recently at public workshops to discuss proposed changes to Rule 17-701, F.A.C., revealed strong support by local governments to be financially responsible for the closure of their landfills. However, they opposed the limited pay-in period associated with escrow accounts. The Department's past interpretation of Rule 17-701.076(5)(d)1., has not allowed the pay-in period to exceed the expiration date of the current facility permit. This interpretation ensures monies are available in the event of premature closing of the landfill, but creates a situation where over funding of the escrow account may occur during the early years of operation. This over funding is creating undue hardship on most local governments.

The Department intends to amend the rule to correct this over funding problem because:

- Improved landfill design (liners, leachate collection systems, etc.) reduces the likelihood that closure will occur prematurely.

- The act was not intended to place unnecessary financial burdens on local governments. Its intent was to ensure that adequate funds are available to close the landfill at the end of its design life.

The Department Memorandum of March 19, 1991 (attached) remains in effect, except that for the discussion of the formula for payments into an escrow account for long-term care, which is discussed below. Until the rule is amended, the following agency policy is in effect.

Landfill Closing

The references in Rules 17-701(3)(a),(4)(c)1., and (5)(d)1. to the "permitted" life of the landfill shall mean the design life of the landfill as contemplated in the construction permit and as specified in the approved closure plan. For those portions of the landfills which are designed to remain active past the expiration date of the current permit, this will have the effect of expanding the pay-in period of the escrow account. For example, if a solid waste disposal unit is designed to last for ten years, then the escrow account must be fully funded for the closing cost in the tenth year of operation, even though the current permit expires in five years. The purpose of the rule is to assure that money for closing is available when the solid waste disposal unit is scheduled to close, rather than when the existing permit expires.

This interpretation does not effect Rule 17-701.076(6) for alternative proof of financial responsibility. Such alternative proof must cover the entire cost when it is established, as required in the rule.

Long-term Care

For government-owned landfills, the references in Rule 17-701.076(3)-(5) to "closure" costs shall be interpreted to mean only the costs of closing the landfill. Long-term care costs must be estimated separately, and need not be included in the escrow account while the solid waste disposal unit is active. Instead, the long-term care costs shall be funded after the unit is closed. At the time of closing, and each year thereafter, the owner or operator shall deposit into the escrow account sufficient funds to cover the following year's long-term care costs. In addition, the owner or operator must document with specificity how it intends to finance the long-term care of the landfill as part of its closure plan.

For privately-owned landfills, the long-term care costs shall continue to be included in the closure cost estimate of the landfill, and thus must be fully funded when the landfill closes. The reason for the distinction is that once a landfill is closed, it no longer produces revenue to fund long-term care costs and there is a financial incentive for the owner to abandon the

landfill. A local government has the ability to levy taxes or assessments to pay for long-term care costs even if the landfill no longer produces revenues.

JMR/fwm

CITRUS COUNTY CENTRAL SANITARY LANDFILL

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

SIXTY ACRE SITE CLOSURE PERMITTING

LONG TERM CARE, MAINTENANCE, AND GROUNDWATER MONITORING

SUPPORTIVE APPLICATION ADDITIONAL INFORMATION

Permit Number: SF09-211030

ENGINEERS' REPORT

Prepared By

Citrus County

Department of Technical Services

Engineering Division

60 Cove Landfill

Thomas E. Sears

10-21-92

50 pages

ACKNOWLEDGEMENTS

This report was prepared for the Aquatics and Solid Waste Division, Citrus County Department of Technical Services, by the Project Management Section of the Engineering Division of the Citrus County Department of Technical Services, Citrus County, Florida. The report was prepared by Thomas E. Fears, P.E., Engineer III, under the direction of Thomas H. Dick, Dir., Aquatics and Solid Waste, and supervision of Michael D. Moore, P.E., Projects Manager, Projects Management Section. Contributions from individuals from these Divisions, the Utilities Division, and Robert M. Hoki, Dir., Management Services Division, and also from other Departments, is respectfully acknowledged. Principal participants in preparing this document other than the above mentioned were: R. Donadio, Engineering Technician III, R. Thibedeau, Engineering Design Technician III, C. Winter, Engineering Technician III, D.Chamblin, Landfill Operations Supervisor, and P. Devaughn, Landfill Operations Foreman.

CITRUS COUNTY CENTRAL SANITARY LANDFILL
FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
SIXTY ACRE SITE CLOSURE PERMITTING
LONG TERM CARE, MAINTENANCE, AND GROUNDWATER MONITORING
SUPPORTIVE APPLICATION ADDITIONAL INFORMATION

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SUMMARY OF REPORT CONTENTS

The Citrus County Central Sanitary Landfill, operated as a unit of County Government by the Board of County Commissioners of Citrus County, is permitted by the Florida Department of Environmental Regulation. The County submitted a "long term care and ground water monitoring supportive permit application" for the closed portions of the landfill to the Florida Department of Environmental Regulation, which they deemed incomplete several times. This report responds to FDER with the required professional interpretation, conclusions, and recommendations, and provides the requested additional and corrected data. Site history, geology, waste disposition, and closure funding are discussed, categorized as Leachate Treatment and Disposal, Ground Water Monitoring, Settlement and Erosion Control, and Gas Migration Detection, and Control.

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

Leachate Treatment and Disposal

The stormwater-related leachate generation problems in the active cell of Phase I of the eighty acre site are intermittent events caused by rainstorms occurring during the rainy season. It is proposed to construct a temporary leachate recirculation system to divert excess leachate from the active garbage cell of the eighty acre site to the former septage pond, where it can be held for recirculation to the leachate collection system. An RFP is to be developed for both the leachate system and eighty acre site Phase 2 design and one engineering firm is to be assigned both projects.

Ground Water Monitoring

Routine testing of ground water samples obtained from wells A, C, and D since 1987 indicate exceedance of maximum contaminant levels, with Well B as the background well for the ground water monitoring program for the sixty acre site, with wells A, C, and D being the detection, or compliance, wells. It is recommended that the submersible pumps be removed from wells MW-A, MW-B, MW-C, and MW-D, so that proper water level measurements can be made for determination of the local groundwater gradient, and one additional monitoring well be installed and sampled to provide representative characterization of the ground water status.

Settlement and Erosion Control

Comparison of the topographic survey aerials from this year with that done in 1990, evidences no significant settlement within Phase I or Phase II (the Seven Acre Trench) of the 60 acre closed site. It is recommended that all eroded and settled areas, including any discovered in the future, be repaired promptly by application of final cover material and grassing, using currently budgeted operating funds.

Gas Migration Detection, and Control

The results of the most recent gas migration investigation indicate gas migration is occurring east and west from the sixty acre site. Loss of vegetation along the west border is undesirable, but there presently is no development along the western border to be threatened by migration in this direction. The scalehouse complex and the leachate treatment plant are located on the eighty acre site adjacent to the east border. Based upon the recent gas migration test results, increased testing by County personnel is recommended.

INTRODUCTION AND PURPOSE OF REPORT

The Citrus County Central Sanitary Landfill is operated by the Board of County Commissioners of Citrus County as a unit of County Government.

It is approximately centrally located, lying south of Gulf-to-Lake Highway, SR 44, about 3 miles east of the intersection of CR 491 and SR 44, between the City of Crystal River and the City of Inverness (See Figure 1). It thus lies in Section 1, T 19 S, R 18 E, at Latitude 28 51′ 08", Longitude 82 26′ 38", within the Withlacoochee State Forest and across SR 44 from the New Mayfair Acres Subdivision.

In March of 1992 Citrus County submitted a "long term care and ground water monitoring supportive application", to permit application SFO9-211030, to the Florida Department of Environmental Regulation.

FDER deemed the supportive application incomplete, questioning some of the data and the adequacy of the existing ground water monitoring plan, so additional information was submitted in April. The additional information was also deemed incomplete, and more data was then submitted in June. These submittals were also deemed deficient and the application incomplete.

It became evident that the lack of professional interpretation of the data, conclusions, and recommendations, was at the core of

FDER's concern with the earlier submissions.

This purpose of this report is to respond to FDER with the required professional interpretation, conclusions, and recommendations, as well as to provide additional or corrected data.

HISTORY

Prior to construction of the central landfill, refuse disposal was accomplished by a system of four open dumps dispersed throughout the County4.

Originally the central landfill occupied a sixty acre site, which was leased for ten years by Special Use Permit from the Florida Department of Agriculture in May of 197515. This site, already zoned GU, government use, being in the State Forest, was then permitted for construction and received its' operation permit from the Florida Department of Environmental Regulation in November of 1975 (No. SO 09-0027)5. The lease was extended to January of 1988 in 1983, and the landfill operation permit renewal was issued by FDER in July of 1987.

Citrus County was granted access, by letter from the Division of Forestry dated October 11, 1988, to the sixty acre site for twenty years from the date of expiration of the Special Use Permit extension for long term care, maintenance, and ground water monitoring.

The Seven Acre Trench in Phase II of the sixty acre site received permission to operate under the existing permit via letter from FDER dated January 19, 1988. Management of Surface Water Permit No. 402023, for construction of storm drainage closure facilities in Phase I, had been issued by the South West Florida Water Management District May 15, 1987. A modification of the existing operating permit from FDER permitting final closure of Phase I of the sixty acre site was received by Citrus County in May of 1989, and certification of Phase I closure construction was received from FDER by letter dated May 24, 1990.

Management of Surface Water Permit No. 402023.03 for construction of closure storm drainage facilities in Phase II and the surface water management operating permit for Phase I closure was received from SWFWMD August 14, 1990. Certification from FDER of the closure of Phase II (which includes the Seven Acre Trench), implementing the final phase of the FDER closure permit for the sixty acre site, has yet to be received. This permit train includes the application for closure for which the supportive application mentioned in the Introduction to this report was submitted and pursuant to which this report is being prepared. The eighty acre expansion site, located adjacent to, and contiguous with, the sixty acre site was obtained in October of 1987 from the State of Florida, Department of Agriculture, Division of Forestry.

The 1987 agreement stipulates that the eighty acres will revert to the State when landfill operations are completed.

Post, Buckley, Schuh & Jernigan, Inc., (PBS&J) consulting engineers, designed the expansion landfill on the eighty acre site, and the County received SWFWMD Management of Surface Water Permit No. 402023.02 on February 28, 1989. Florida Department of Environmental Regulation operating permit #SO09-187229 was then received in November 1990 to operate the facility as a Class I sanitary landfill. This site began receiving refuse in its Phase I cells on January 2, 1991.[8]

The eighty acre site is to be developed in six phases, each phase consisting of one or more refuse "cells".[8] Each of the first five phases are estimated to last five years each, with the final phase expected to serve for seven years.[8] Thus the entire eighty acre site is anticipated to have a useful life of 32 years, serving until the year 2023. Currently, the Phase I development of the site has been projected to reach capacity in July of 1995.[8]

A thirty (30) mil PVC geomembrane cap has been placed in the final cover over both phased closure portions of the sixty acre site. Currently on the sixty acre site, only leachate from the Seven Acre Trench is collected. An underdrain system atop the geomembrane-lined bottom conveys the leachate to two wet wells in the Seven Acre Trench, from which it is pumped to the leachate treatment plant located on the eighty acre site. Leachate from the remainder of the sixty acre site is not presently collected for treatment. According to long-time County staff members interviewed for this report, Mr. Brooks Gossellin, who was inspector for the Phase I closure, Mr. Steve Dixon, whose duties took him to the Phase I trenches at various times while they were active, and Mr. Prime Devaughn12, Landfill Operations Foreman, who was an equipment operator at the time the Phase I cells were constructed, the Phase I cell bottoms were lined with about two feet of compacted clay prior to placement of refuse. The sides of the trenches were not lined with the clay material, but were constructed of non-plastic sands.

Recently, rogue storm water entering the refuse in the Phase I active cell of the eighty acre site has become a concern. "Problems with the leachate system were first identified in October 1991. FDER facility inspections during this month noted that leachate was ponding on the surface of the active cell ...".[8] "A Warning Notice Letter (#WN91-0018SW09SWD) was issued on November 21, 1991 citing a violation of FAC Rule 17-701.050(5) (e)...".[8]

"Ponding of leachate on the surface areas of the active cell re-occurred during the rainy season of June/July/August 1992. The landfill recorded 22.9 inches of rain during this period creating severe leachate problems."[8] On October 2 and 3, 1992, the landfill received another approximately 11 inches of rainfall,

creating an emergency flooding situation in the Phase I active cell.

The above problems on the eighty acre site are not related to the functioning of the leachate collection system of the closed Seven Acre Trench on the sixty acre site, but are included here because the system is shared and any modifications to the leachate treatment plant on the eighty acre site must also accomodate the Seven Acre Trench leachate.

DISCUSSION OF CURRENT STATUS

Assessment of the current status of the central landfill as required for permitting involves environmental characterization of the site. Though this report is specifically directed to the long term care, maintenance, and monitoring of the closed sixty acre site, the juxtaposition of the eighty acre active expansion site to the east of the sixty acre site cannot be physically or administratively ignored.

According to Mercer and Spalding 13: "Whatever the objectives, ground-water site characterization has two major components: assessment of the ground-water flow system and assessment of the contamination in the ground-water." Mercer and Spalding (after Bouwer, et al.) describe the process of site characterization as being performed in phases, following the scientific method: "First a hypothesis is made concerning site or system behavior. Based on this hypothesis, a data collection program is designed, data are collected, and an analysis or assessment is made. Using the results of the analysis, the hypothesis is refined and additional data may be collected. As the knowledge of the site becomes more detailed, the working hypothesis may take the form of either a numerical or analytical model. Data collection continues until the hypothesis is proven sufficiently to form the basis for decision making."

In order to assess the current status of the landfill, the following discussion separately categorizes selected facets of environmental concerns which are in actuality interrelated. These categories, Leachate Treatment and Disposal, Ground Water Monitoring, Settlement and Erosion Control, and Gas Migration Detection and Control, were selected for convenience, based on the review queries from FDER.

Leachate Treatment and Disposal

"A principal environmental concern when constructing and operating a landfill is the formation of highly contaminated water (leachate) that may emanate from the base of the landfill. This leachate is formed as water passes through the landfill. The escape of the leachate into either surface or groundwater systems can significantly degrade their quality. The sources of water for

leachate formation are primarily precipitation onto the operating landfill, infiltration through the cover of the completed landfill, and groundwater which may flow laterally from the geologic formation surrounding the landfill. To a lesser extent, water contained within the solid waste deposited in the landfill and surface runoff into the landfill from exterior areas will contribute to leachate generation."[6]

"If the landfill is lined and a leachate collection system is placed at its base, the leachate collection system can recover the contaminated, downward-moving water."[6] Leachate from the partially clay-lined trenches in Phase I and the southern part of Phase II of the Sixty Acre Site is not currently collected.

Minimum specifications for leachate control treatment & disposal in Florida are currently found at FAC 17-701.050, "Sanitary Landfill Criteria", subpart (d) 2. "Existing permitted Landfills", subpart (5) (2), "Leachate Control Performance Standards", subpart (5) (f)"Leachate Control System Design Standards", & subpart (6) (h)", "Operations", 17-701.060, "Special Waste Handling", "subpart (2), 17-701.703, "Closure Plan Requirements", subpart (5) (d) & (6) (d), 17-701.074, "Closure Procedures", subpart (6) "Use of closed landfill area", and 17-701.075, "Long Term Care", subpart (2), "Reduced long term care period". Minimum requirements for data integrity gathered pursuant to any of the above requirements is found at FAC 17-160, "Quality Assurance".

Currently the County has contracts with Savannah Laboratories, Inc., and KNL Laboratory Services for sampling and analysis not performed by in-house staff. Both Savannah and KNL are currently operating under a Comprehensive Quality Assurance Plan approved by FDER.

The County is now in the first phase of landfilling on the eighty acre site. "Construction in this Phase included a subgrade synthetic liner system (both bottom and side slopes) and a leachate collection system. These systems insure containment of the solid wastes and collection and removal of leachate."[8] Leachate is collected by gravity flow in laterals located immediately above the bottom synthetic liner, collected in a lift station and pumped to the leachate treatment facility."[8] "The System includes a trio of batch-operated PACT units and a sludge/effluent equalization tank. The PACT system combines powdered activated carbon with biological treatment. Each batch unit is self-contained and capable of independent operation".[8]

"Operational records from the Division of Public Utilities (operators of the leachate treatment plant) indicate that during the recent rainy period the plant was operating at full capacity. Therefore, the leachate that is ponding on the surface of the landfill could not be treated through the Zimpro plant even if soil porosity/permeability would allow for its passage to the subgrade

collection system."[8]
The Zimpro-Passavant leachate treatment plant, located on the eighty acre site and originally configured to treat 30,000 gallons of leachate per day, was temporarily reconfigured to increase capacity to 60,000 gallons per day in an attempt to deal with the stormwater-induced leachate problem in the Phase I active cell of the eighty acre site.

Since the Zimpro plant could not possibly handle the leachate generation from rogue storm water on the eighty acre site: "A meeting was held on September 2, 1992 with FDER officials, County staff and PBS &J, Inc. to discuss the problem and possible solutions. It was agreed that the County would submit a short term plan to rectify the immediate problem by September 30, 1992 and suggest a long range plan to prevent the re-occurrence of leachate problems for the (life) of the site.

"The object of the short term plan is to eliminate the existing ponding of storm/rain related leachate within Phase I of the site. The plan attempts to utilize to the greatest extent possible existing resources and structures. The plan was formulated by County staff members from the Division of Engineering, Division of Public Utilities and Division of Aquatics and Solid Waste Management.

The short term plan consists of the following three (3) components:

1. Create a Leachate Recirculation System
2. Increase Leachate Treatment Plant Capacity
3. Modify Operational Procedures" [8]

These plans are now in process of being brought on-line.

Ground Water Monitoring

At landfills in the State of Florida, a system for monitoring ground water quality has been required to be installed. To be effective, this system must be capable of yielding representative samples of ground water for laboratory analysis. Currently the accepted methodology for obtaining this ground water information is to open a hole to the strata of interest and install collectors and/or sensors, i.e., install "monitoring wells".

Minimum specifications for monitor well location, construction, and collection of samples in Florida are currently found at FAC 17-3.401, "Ground Water: General", 17-4.246, "Sampling and Testing Methods for Water Pollution Sources", and 17-28.700, "Installations Discharging To Ground Water; Permitting and Monitoring Requirements", per requirement of FAC 17-701.050, "Solid Waste Management Facilities; Sanitary Landfill Criteria". Minimum requirements for sampling and testing of ground water at landfills in Florida are found at the same parts, in addition to FAC 17-550.300 (Part III Quality Standards), "Drinking Water Standards;

Application of Quality Standards to Public Water Systems", and FAC 17-550.400 (Part IV Unregulated Contaminants), "Drinking Water Standards; General". Minimum requirements for data integrity gathered pursuant to any of the above requirements is found at FAC 17-160, "Quality Assurance".

"Ground-water detection monitoring commonly involves measurement of contaminants that are either at or below the detection limit of analytical procedures. The statistical concept of detection limit includes accurately reporting and analyzing data including measurement near or below the detection limit(McNichols and Davis, 1988)."[13]

As stated above under Leachate, the County currently has contracts with Savannah Laboratories, Inc., and KNL Laboratory Services, both operating under a Comprehensive Quality Assurance Plan approved by FDER, for sampling and analysis not performed by in-house staff.

According to Barcelona, et al.2: "The goals of any proposed ground-water monitoring program should be clearly stated and understood before decisions are made on the types and numbers of wells needed, where they should be located, how deep they should be, what constituents are of interest, and how samples should be collected, stored, transported, and analyzed."

In the vacinity of the landfill, "The general direction of groundwater flow in the NWCFGWB (Northern West Central Florida Ground-Water Basin) is .....southwest from the Keystone and Bronson highs to the Gulf of Mexico...."[16]

A "...modification of the existing groundwater monitoring program conducted since 1975."[4] was prepared for the sixty acre site by Seaburn and Robertson, Inc., in 1985. At this time two new monitor wells were constructed, and one existing monitor well and the existing landfill water supply well (were) incorporated into the monitoring plan. The new wells are presently known as A and B, the existing monitor well as C, and the converted supply well as D. The location of these wells are shown in Figure 3 of Seaburn and Robertsons'1985 Monitoring Plan (Ref. 4), which also shows four 2 inch diameter monitor wells, to be abandoned, at the corners of the sixty acre site, along with one 4 inch monitor well, to also be abandoned, at the southwest corner of the sixty acre site.[4]

The geology, geohydrology, and hydrology of the sixty acre site are extensively discussed in Seaburn and Robertson, Inc.,'s 1985 Monitoring Plan. Selected excerpts from this report have been used to help prepare the landfill sections in Figures 25 and 26. In this report, the gradient of the water table westward across the site was found to drop 1.5 feet in 1500 feet (approximately), a slope of 0.1%. The 1984 Potentiometric Surface Map of the Floridan Aquifer included in this same report indicates approximately the same slope based on the shown potentiometric contours.[4] Laboratory

vertical hydraulic conductivities for the unconsolidated sediments at the site ranged from 13.12 feet per day for sand, to 0.544 feet per day for silty sand, and down to 7.23x10-5 for the clay on site. Field vertical and horizontal hydraulic conductivities were found to be 0.340 feet per day and 0.0328 feet per day, respectively.[4] In September of 1988, a groundwater monitoring plan for the eighty acre expansion site was submitted to FDER by Post, Buckley, Schuh &Jernigan as Attachment 3 of the Application for Permit to Construct the expansion site.[5] As a result of this proposal, three new two inch monitor wells were constructed in six inch boreholes at the northwest, northeast, and southeast corners of the eighty acre expansion site. The northwest well is labelled #1, the northeast well #2, and the southeast well #3, in Figure 5 of the Application's Attachment 3. Well #2 was identified by PBS&J in the Plan to be replaced due to lack of aquifer penetration, having been screened above the water table. The geology, geohydrology, and hydrology of the eighty acre site are discussed in this document, and selected excerpts from this report have also been used to help prepare the landfill sections Figure.[5]

The present monitor well locations resulting from these activities have been summarized in Figure 2. The well construction details for these wells have been summarized in Figures 3-24, with photographs of the monitor wells included as illustrations.

According to Barcelona2, et. al.: "High quality chemical data collection is essential in ground-water monitoring programs. The technical difficulties involved in "representative" sampling have been recognized only recently (Gibb et al., 1981; Grisas et al., 1978). It is clear that the long-term collection of high quality ground-water chemistry data is more involved than merely selecting a sampling mechanism and agreeing on sample handling procedures. Efforts to detect and assess contamination can be unrewarding without accurate (e.g., unbiased) and precise (e.g., comparable and complete) concentration data on ground-water chemical constituents. Also, the expense of data collection and management argue to documentation of data quality".

M.N. Saral states: "The question 'how much monitoring is enough'? When answered in the context of the number of monitoring wells required at a site, will be entirely site-specific. In general, the monitoring system designer should ensure that convincing evidence is established for each assumption, and for demonstrating the basic capability of the system to produce ground-water samples representative of both upgradient (background) and downgradient conditions".

Furthermore: "Through the scope of this discussion is on sampling ground-water for chemical analysis, it should be emphasized that the same data quality requirements apply to water level measurements and to hydraulic conductivity testing. These hydrologic determinations are the basis for the interpretation of

chemical constituent data and may well limit the validity of fluid or solute transport model applications. Hydrologic measurements must be included in the development of the quality assurance / quality control program for ground-water quality monitoring networks".[3]

Quoting Barcelona once again: "Two fundamental considerations are common to most ground-water quality monitoring programs: establishing individual sampling points (i.e., in space and time) and determining the elements of the water sampling protocol that will be sufficient to meet the information needs of the overall program". And: "...the sampling protocol is the focus of the overall study network design (Nacht, 1983), and it should be prepared flexibly so that it can be refined as information on site improves".[3] The County is not required to have a Quality Assurance Project Plan for the landfill. Quality assurance is currently addressed by the Comprehensive Quality Assurance Plans of the sampling and testing laboratories under contract to the County.

Contaminant substances in excess of regulatory limits have been detected in the samples yielded by the present landfill ground water monitoring system. These results are summarized in Appendix I, "Ground Water Sampling and Testing Results". Their source can not be accurately determined presently, however, without first establishing that the existing monitor wells yield truly representative samples of the proper target zones, and that these samples are being properly obtained and tested.

In order to establish the sufficiency of the existing system, may use the data presently available to improve the system then incorporating all appropriate existing elements into it in order to minimize development costs. Quoting Nielsen1: "The first task in the design of a ground-water quality monitoring system is the selection of the target monitoring zones." "A review of features of the facility to be monitored, used in combination with conceptual models and flow nets, provides the system designer with the information to select those zones that will provide a high level of certainty that releases from the facility will be `immediately' detected."

The FDER has questioned whether the currently designated upgradient wells are yielding samples representative of the background ground water quality."The term "upgradient" can be a difficult concept to demonstrate in ground-water monitoring system design, because field conditions may not match the simple regulatory model. The designer must carefully consider site-specific hydraulic conditions to accurately locate upgradient monitoring wells because ground water does not always flow horizontally from upgradient to downgradient".[5] Currently, water level readings cannot be taken from wells A, B, C, and D, if the water level is not above the submersible pumps with which they are fitted. Further
Drainage retention areas No. 1, 2, and 3, on the sixty acre site,

the four eighty acre entrance road DRA's, the eighty acre Phase I active cell DRA, and the leachate treatment plant effluent discharge basins are possible local sources of recharge affecting water level readings in the existing wells. These DRA's are shown on the Active/Closed Portions Map in the Appendices.
"Geologic controls over ground-water movement represent the most critical factors that should be considered in ground-water monitoring network design. The goal in designing a monitoring network, in most cases, is to define the most likely zone(s) in which ground-water moves beneath a facility and, hence, the most likely zone for any possible contaminant movement to occur and be detected".[1]

"Highly solution-channeled limestone bedrock (karst) terrains present additional challenges to the designer of a ground-water monitoring network because monitoring wells can easily miss solution channels ...".[1] The strata underlying the landfill is just such a karst terrain geologic formation, though the limestone is at great depth and is overlain by the sandy soils in which the landfill is sited. The Soil Conservation Service Soil Survey for Citrus County soil maps indicate that the landfill is sited on Lake Fine Sand, 0 to 5 Per Cent Slopes, though the sixty acre site was in existence when the maps were made, and indicates manmade soils for that site.[14] Strata interpretation at depth is shown in the geologic cross sections included in Appendix II, prepared by County staff member Ronald L. Donadio, Bachelor of Science in Geology, Engineering Technician III, who has served as geologist for this permitting effort.

Settlement and Erosion Control

Maintenance of adequate cover over landfilled refuse is primary to the concept of disposal by burial. Corollary to the concept is minimization of leachate generation by preventing percolation of incipient rainfall. Robustness of the cover layer may also be fundamental to the planned future use of the site.

Surface settlement and erosion control at landfills in Florida is currently addressed at FAC 17-701.050, "Sanitary Landfill Criteria", subpart (5)(g), "Surface Water Management System Performance Standards", subpart (5)(h), "Surface Water Management System Design Standards", subpart (6)(g), FAC 17-701.073, "Closure Plan Requirements", subpart (6)(c), FAC 17-701.074, "Closure Procedures", subpart (3), "Final survey and as-built report".

A topographical survey was completed of both the sixty and the eighty acre sites by aerial survey in July of this year. This aerial survey, flown by Hamrick, Inc., and prepared by the Survey Section of the Citrus County Department of Technical Services' Engineering Division, is included in the Appendices under "Topographic Maps".

Gas Migration, Detection and Control

"Decomposition of solid waste placed in a landfill is initially aerobic until all the oxygen is used up, and then changes to anerobic decomposition as the oxygen supply is exhausted.[7] Anerobic decompositon occurs in two phases, with carbon dioxide the principal gas generated in the first phase, and an increasing amount of methane being generated in the second phase until the methane concentration reaches 50 to 60%.[7] Methane generation will typically continue at these concentrations for 10 to 20 years or more.[7] Methane gas generation is of concern because:[7]

1. It is explosive at concentrations of 5 to 15% in confined spaces, and at over 15% poses an extreme danger, even though insufficient oxygen exists for explosion.
2. Methane can cause asphyxiation in confined spaces.
3. It will kill vegetation by asphyxiation of the roots.

Minimum specifications for gas control at landfills in Florida are currently found at FAC 17-701.050(5)i, "Gas Control System Performance Standards", and 17-701.050(5)j, "Gas Control System Design Standards". Minimum requirements for operation of gas control systems at landfills in Florida are found at FAC 17-701.050(6),"Operations", subpart `i', and for closure, at FAC 17-701.073, "Closure Plan Requirements", subpart `(4), "Gas migration investigation", and 17-701.073 (6), "Closure Design Plan", subpart (f), "Type of gas or odor control which may be used".

On the closed sixty acre site: "Gas and (odor) control is accomplished by a venting system consisting of 44 vents place on centers of approximately 190 feet over the site. The vents are constructed of four (4) inch diameter PCS piping extending approximately twenty-nine (29) feet into the ground. The lower twenty (20) feet is perforated and encased in a two (2) foot diameter hole backfilled with coarse aggregate to allow for gas accumulation."[11] These vents are monitored weekly by Solid Waste Division personnel.

"Thirteen (13) vents and the two (2) leachate lift station manholes (on the seven (7) acre trench) have been fitted with vent stack burners for additional (odor) and migration control. The burners are constructed of a 10 gauge metal perforated cone, attached to a fourteen (14) foot, three (3) inch galvanized pipe with a three (3) inch bronze gate valve."[11] An illustration of the existing stack construction is provided in Figure 24.

Testing for gas migration is currently performed by Citrus County personnel on an "as directed" basis. The method used is outlined in the following excerpt from the last testing report:
"... tests were conducted at 300 +/- foot intervals along the perimeter of the property, except for the west boundary which was tested at 180 +/- foot intervals due to the proximity of numerous inactive trenches. A one (1) inch hole at least three feet deep was

plugged from the ground at each of the test points. A cover was positioned over each hole and allowed to stand undisturbed for a minimum of fifteen minutes. Readings were taken at each test point, as indicated on the attached sheet, with a Gastech Model #GP-204 combustible gas indicator. The maximum levels determined at each test point, as indicated by the meter, are noted in % LEL."[10]

CONCLUSIONS

Leachate Treatment and Disposal

Phase I of the sixty acre site has been provided with a geomembrane cap, which should eliminate the storm water component of leachate generation form this Phase, leaving only the moisture in the refuse to generate leachate. Leachate from the Phase I site is partially contained by the clay bottom liner placed in each disposal trench. The south part of Phase II was constructed similarly to Phase I. The Seven Acre Trench in Phase II as constructed with a sixty mil PVC geomembrane liner, leachate ollection system, and a thirty mil PVC geomembrane cap. There is no current problem with the waste water treatment of leachate pumped from the collection system of the lined Seven Acre Trench, which is in Phase II of the sixty acre site.

The stormwater-related leachate generation problems in the active cell of Phase I of the eighty acre site are intermittent events caused by rainstorms occurring during the rainy season. The probability that an event of return period T will occur in any year is 1/T. The event of October 2 and 3 reportedly delivered approximately 11 inches of rainfall in 24 hours. This is closely an event of 100 year return period. Its' probability of occurrence in any year is thus 1 in 100 or 1%, and the probability that it would not occur in any year is 99%. The probability that such a storm would not occur in the 32 year life of the eighty acre site is given by I=[1-(1/T)]**n, or [1-(1/100)]**32=0.725 or about 7 chances in 10. The risk that it might occur in the 32 years is R=1-I=1-0.725=0.275 or about 3 chances in 10. Thus this sort of event has a very low probability of occurring in any given year, and is not very probable in the whole life of the landfill.

Ground Water Monitoring

Routine testing of ground water samples obtained from wells A, C, and D since 1987 indicate exceedance of maximum contaminant levels, for those Primary Drinking Water Standards parameters included, for Turbidity. Included Secondary Standards parameters maximum contaminant levels exceeded were Color, Corrosivity, Iron, Manganese, Odor, and Total Dissolved Solids. Volatile Organic Contaminants parameters maximum contaminant levels exceeded were Vinyl Chloride and Benzene. These results are summarized in Appendix VII: "Revised Groundwater Sampling and Testing Results".

The routine testing for well B for the same period and the same parameters indicated maximum contaminant levels for Turbidity, Corrosivity, and Iron, were regularly exceeded. Well "B" is as the background well for the ground water monitoring program for the sixty acre site, with wells A, C, and D being the detection, or compliance, wells. The wells may not be providing representative samples of the groundwater, but since the testing companies are operating under Quality Assurance Plans, sampling technique is not likely to be the source of parameter exceedence.

Settlement and Erosion Control

Comparison of the topographic survey aerials from this year with that done in 1990, evidences no significant settlement within Phase I or Phase II (the Seven Acre Trench) of the 60 acre closed site. Field observations indicate however that erosion is occurring, with one case at DRA 1 being especially severe. This erosion site does not threaten the integrity of the final cover for Phase I, since it is well north of the disposal trenches.

Gas Migration Detection and Control

The results of the most recent gas migration investigation performed May 21, 1992, are included in the Appendices. These results indicate gas migration is occurring east and west from the sixty acre site. The sixty acre site is bordered on the west by the Withlacoochee State Forest, and thus the methane migration threatens only the trees and vegetation along the west border. Loss of this vegetation could lead to soil erosion, and is undesirable, but there presently is no development along the western border to be threatened by migration in this direction.

The east border of the sixty acre site is the west border of the eighty acre site. The scalehouse complex and the leachate treatment plant are located on the eighty acre site adjacent to this border. The methane migration detected at the sixty/eighty acre border should be monitored and if determined to be a hazard, then methane migration could be prevented by appropriate remedial construction.

RECOMMENDATIONS

Problem resolution proposals for the Citrus County Central Landfill should balance financial and environmental costs and benefits in any long range development considerations. Present focus is to bring the facility into substantial compliance with regulatory requirements in order to allow rational provision for long range needs.

Leachate Treatment and Disposal

In the active cell of the eighty acre site, it is proposed to construct a temporary leachate recirculation system to divert excess leachate from the active garbage cell to a temporary reservoir, the former septage pond, where it can be held and then recirculated to the leachate collection system. The recirculation system proposed would consist of a series of spray heads across the top of the geomembrane liner. Recirculation of the leachate through spray heads onto the geomembrane liner will pre-treat and also reduce the volume of leachate by evaporation, thereby lessening the impact on the treatment plant.

"While the (leachate plant) system is designed to treat up to 30,000 gallons per day, the Division of Utilities and Zimpro / Passavant Inc. officials believe that, with some relatively minor alterations, the plant capacity can be doubled. Instead of each batch tank being utilized once per day, the batch time will be reduced to allow for two batches per tank per day (for a total of 60,000 gallons per day)"[8]

Changes in cover dirt material, and revamping operating procedures to reduce the working face, are also proposed to better control leachate generation due to storm water, especially during the rainy season. Rainfall which does not contact refuse can thus be handled as storm water instead of being processed as leachate. This is important because the proposed system consisting of the 500,000 gallon (former septage pond) reservoir, recirculation spray heads, and double-timed leachate plant is capable of handling only an input of 800,000 gallons per day. Assuming no separate storm water handling facilities, this is equivalent to a 24 hour rainfall recurrence interval of less than two years falling on the 15 acre active cell, which has a probability of greater than 97% of occurring during the five year design life of each of the eighty acre site phases. Thus upgrading of the active cell storm water retention and pumping facilities should also be done in conjunction with the leachate emergency system.

"Staff recommends that an RFP be developed for both the leachate system and Phase 2 design and one engineering firm be assigned both projects. These projects inter-relate to a degree where there is obvious merit in having a single engineering firm. Additionally, the landfill's operating permit will expire in October 1995. With an accelerated schedule for the design and construction for Phase 2 expansion of the landfill, it is felt that the renewal of this operating permit can be accomplished in conjunction with the Phase 2 plan". The schedule of milestone events for the consultant engineering projects are:

October 1, 1992	Advertise for Consultant Qualifications
December 15, 1992	Contract with Consultant

August 1, 1993	Finalize Plans
January, 1994	Initiate Construction
December, 1994	Finalize Construction "[8]

Ground Water Monitoring Plan

It is recommended that the submersible pumps be removed from wells MW-A, MW-B, MW-C, and MW-D, and an additional new well be installed 200 to 500 feet southwest to improve monitoring of the sixty acre site, validate existing well construction details and correlate the lithology as shown in the records for wells A, B, 1, and 3. This needs to be done so that water level measurements indicative of the local groundwater piezometric gradient can be made as part of the effort to characterize the subsurface site.
An upgraded sampling protocol designed to exploit the renovated monitoring well system should then be evolved from the current procedures.

"Laboratories should be asked to provide uncensored data on all water samples with measurements near or below the limit of detection. Measurement data should not be discarded unless the lack of statistical control in the measurement process is clearly demonstrated."[13] "Remediation decisions, however, should be based on concentrations at or above the limit of quantification, not the limit of detection."[13]

"The detection limit for a contaminated sample is defined as three standard deviations (3 ug/l) above the mean for the standard, or six standard deviations above the zero point defined by the field blank ...".[13] "The limit of detection should be defined every day of analysis. The detection limit is probably the most important kind of laboratory quality assurance data and should be reported with the analytical results for each constituent."[13]
"Following the above example, signals below three standard deviations are considered below the limit of detection. The region of detection is between 3 and 10 standard deviations (5 standard deviations by some rules) and is where the constituent can be said to be present, but the precise concentration cannot be stated with certainty. Analyte signals above the limit of quantification (plus 10 standard deviations) can be interpreted quantitatively."[13]

Settlement and Erosion Control

It is recommended that all eroded and settled areas, including any discovered in the future, be repaired promptly by application of final cover material and grassing. Grassing should be done by seeding and mulching on gentle slopes up to approximately 5%, and sodding slopes up to approximately 6:1. Long sloped areas and slopes greater than 6:1 may require degradable netting, root development fabric, pegging, or other method of securing until a

turf can be developed.

Gas Migration Detection, and Control

Based upon the recent gas migration testing results, it is recommended that gas migration testing be done at least monthly by County personnel to create a body of data upon which to more firmly base decisions.

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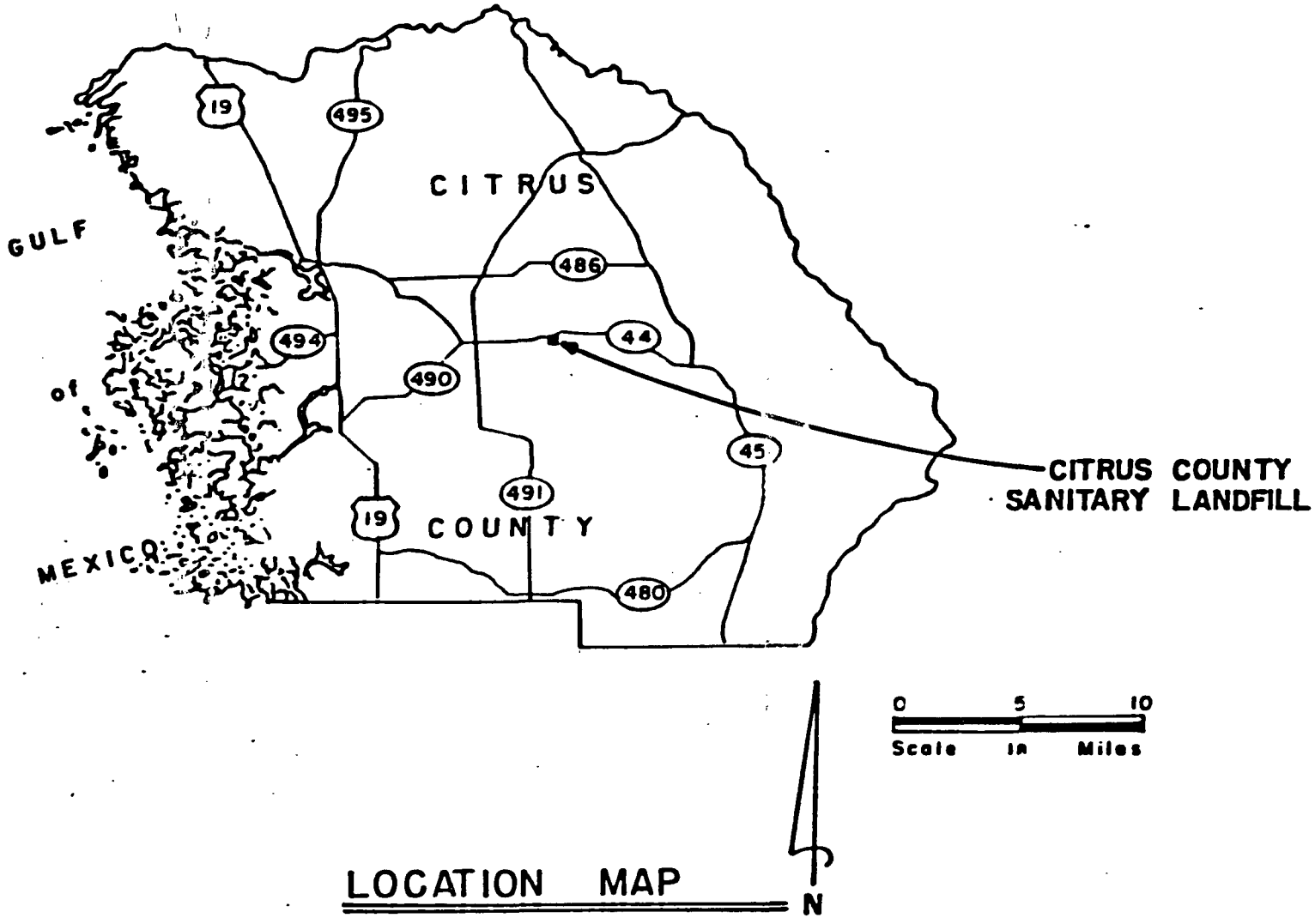
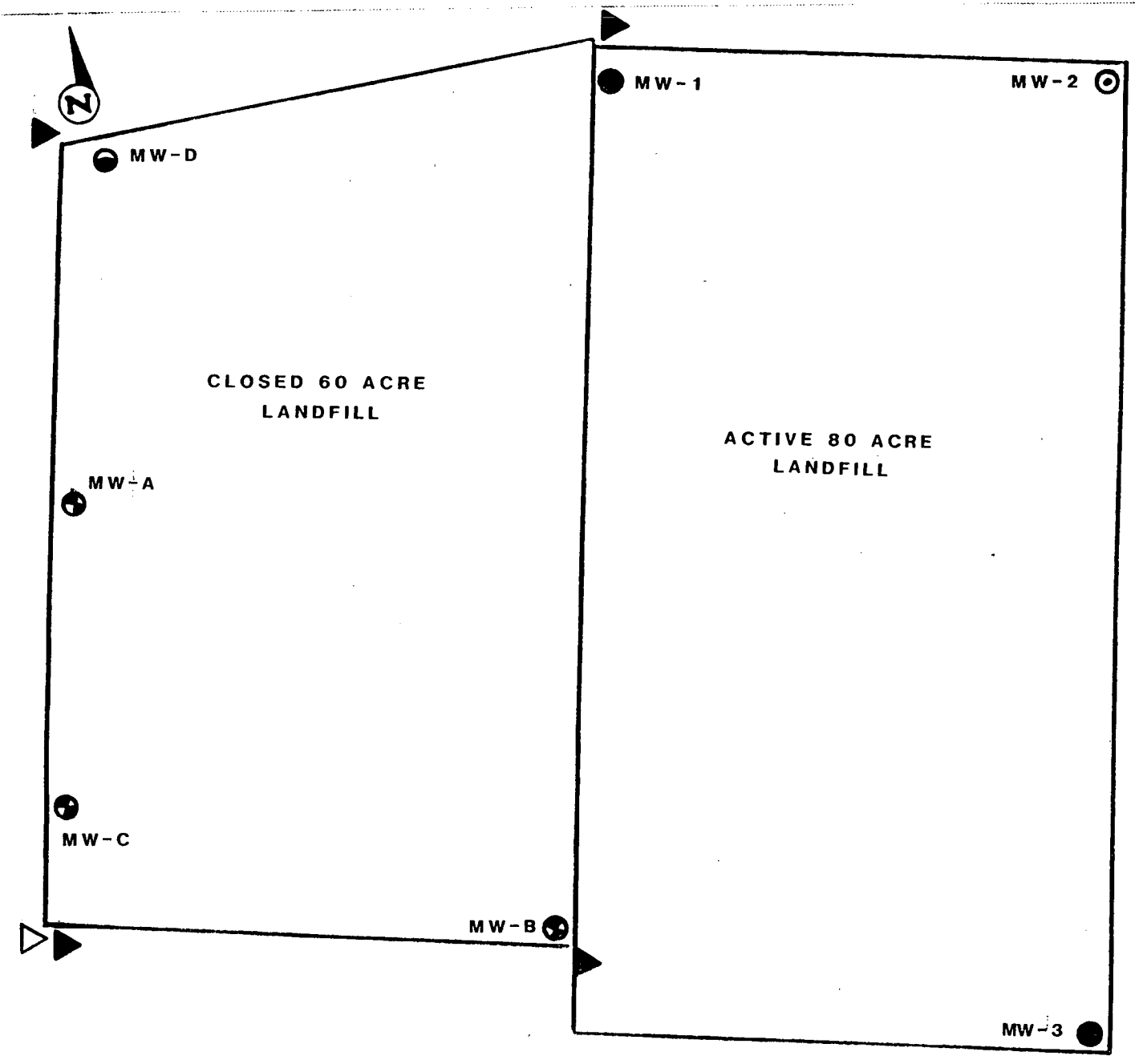
FIGURES



LOCATION MAP

Figure 1



EXPLANATION

- PREVIOUSLY EXISTING 4-INCH MONITOR WELL
- SUPPLY WELL
- SPT-BORING AND 2-INCH MONITOR WELL
- SPT-BORING AND WELL TO BE RE-INSTALLED
- ABANDONED 2" MONITOR WELL
- ABANDONED 4" MONITOR WELL

Figure 2

0 400'
SCALE FEET

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: Well Location Diagram

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: 10-92 BY: JM/TF SHT. NO.

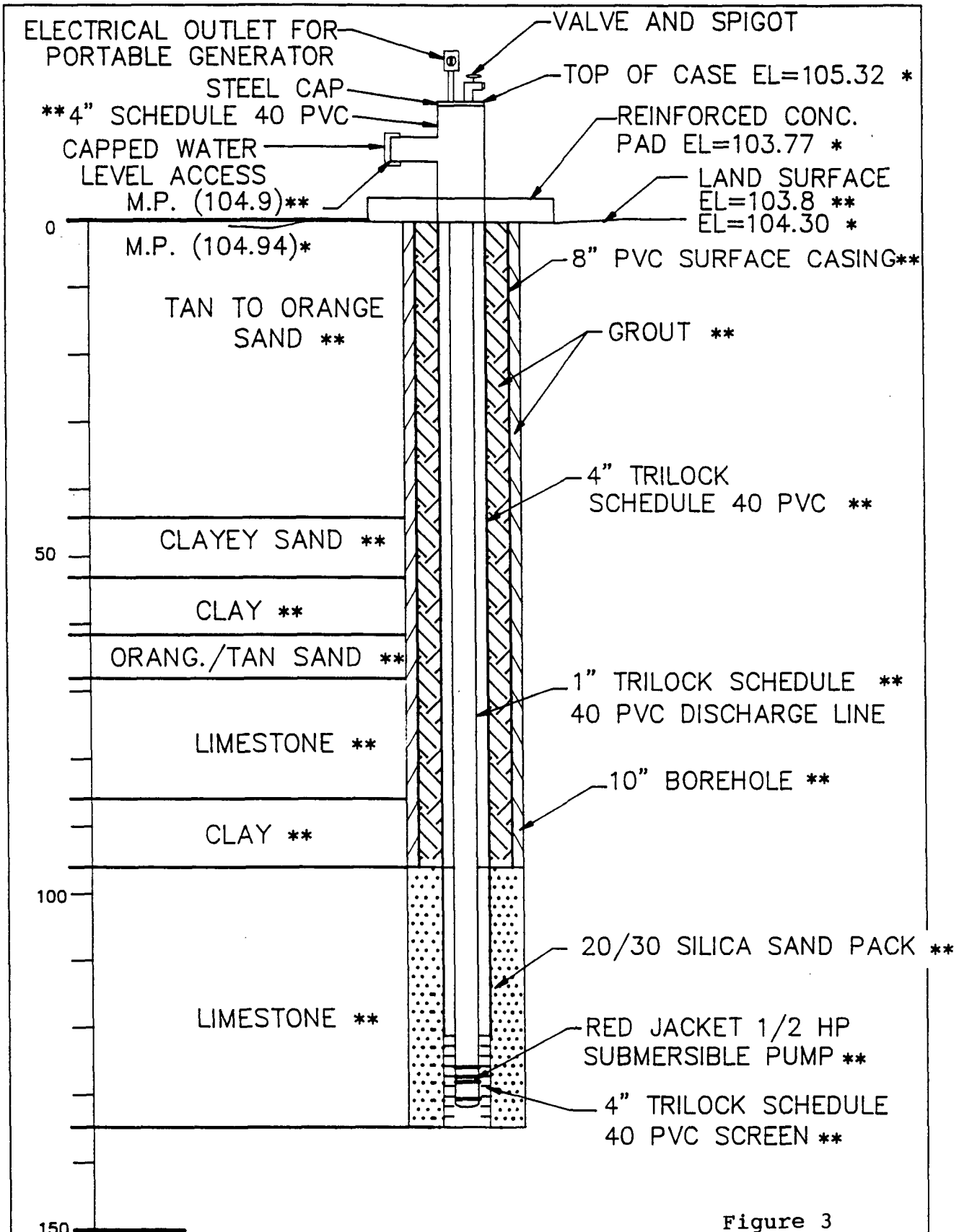


Figure 3

* C.C. D.T.S. SURVEY (DATE: 6/18/92)
** SEABURN AND ROBERTSON, INC. MONITORING PLAN 1985

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL MW-A

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: ____ BY: ____ SHT. NO. ____

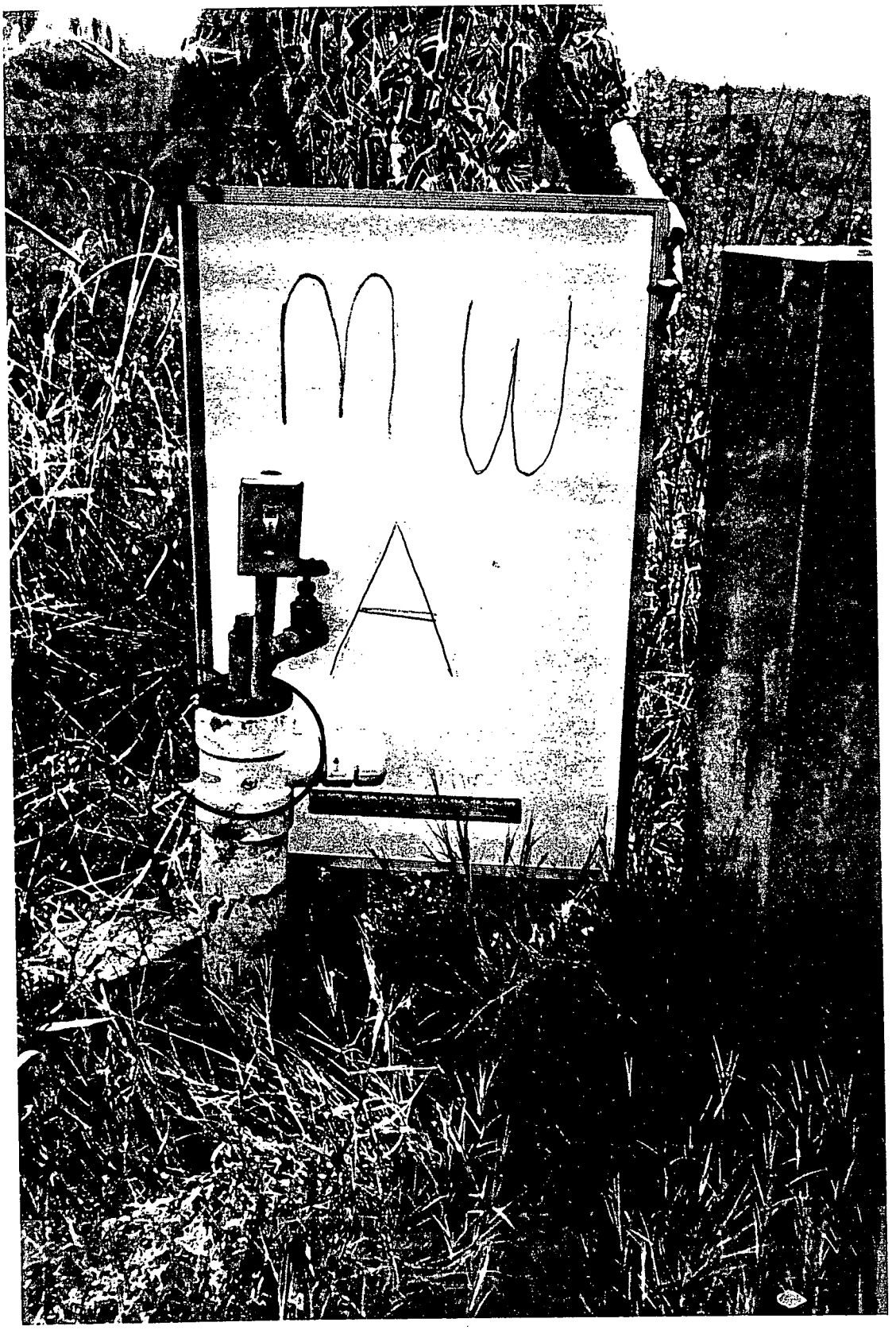


Figure 4 .....Monitor Well "A" Photograph 1

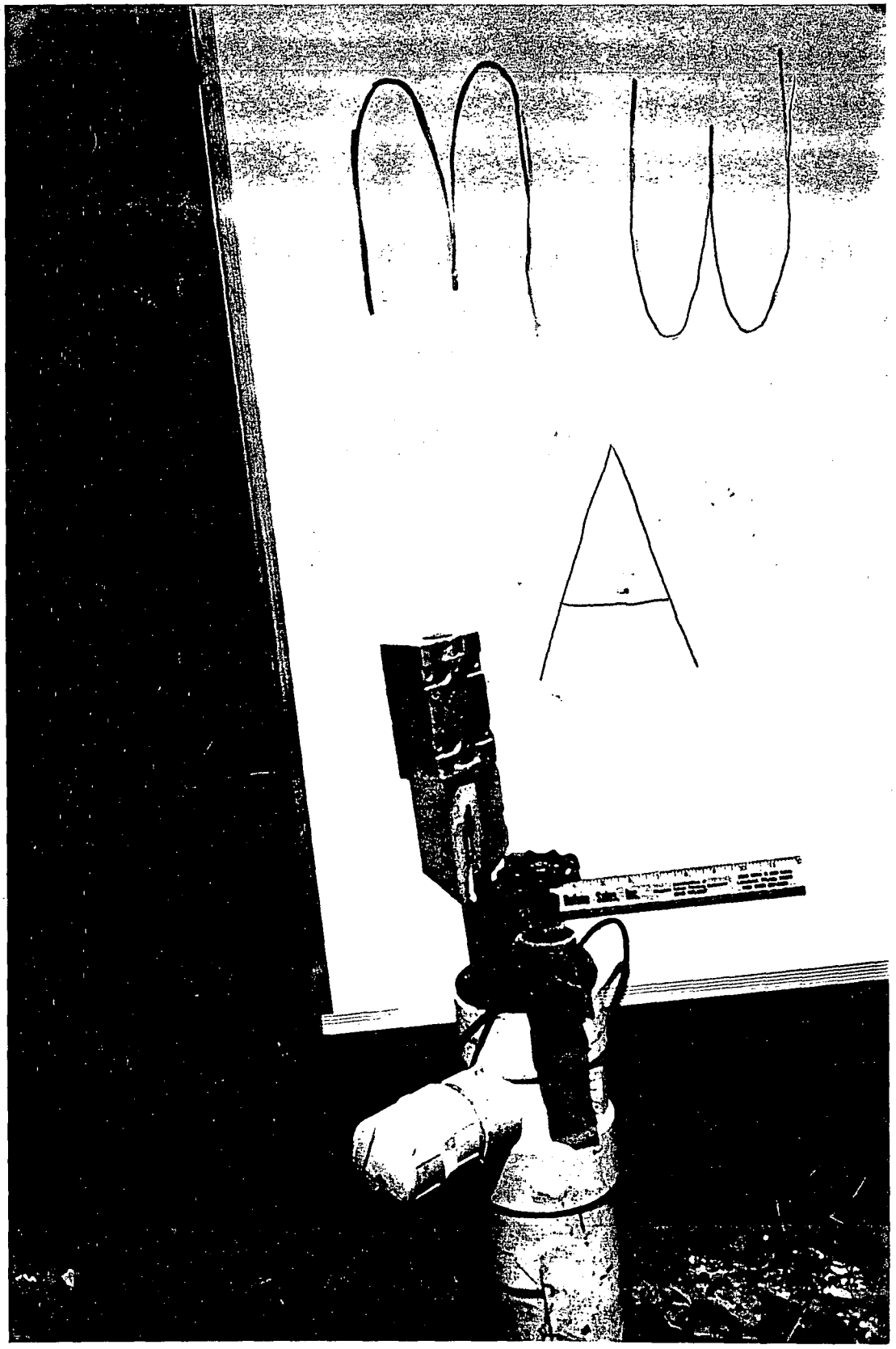


Figure 5 .....Monitor Well "A" Photograph 2

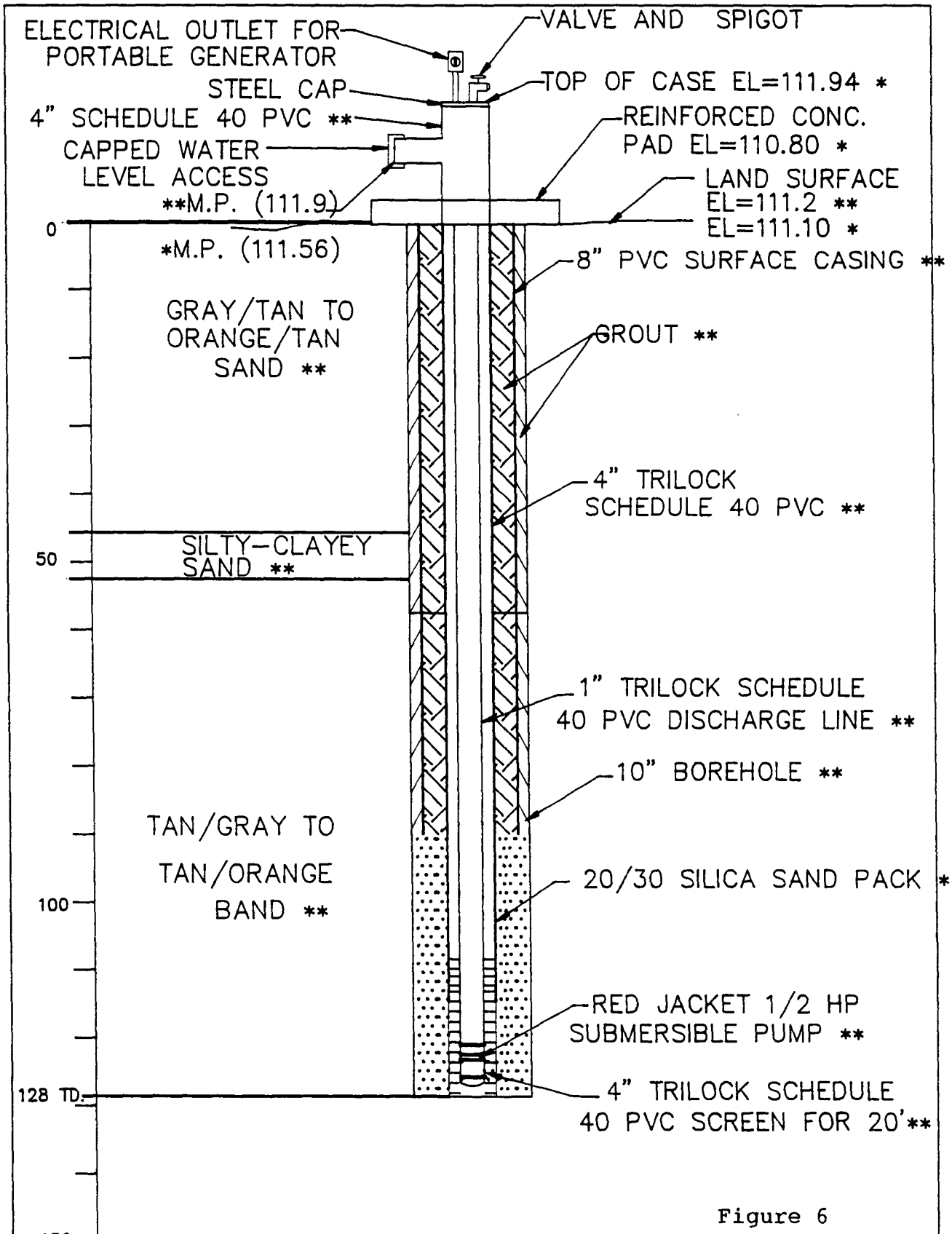


Figure 6

* C.C. D.T.S. SURVEY (DATE: 6/18/92)
** SEABURN AND ROBERTSON, INC. MONITORING PLAN 1985

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL MW-B

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: BY: SHT. NO.

Figure 7 .....Monitor Well "B" Photograph 1

Figure 8 .....Monitor Well "B" Photograph 2

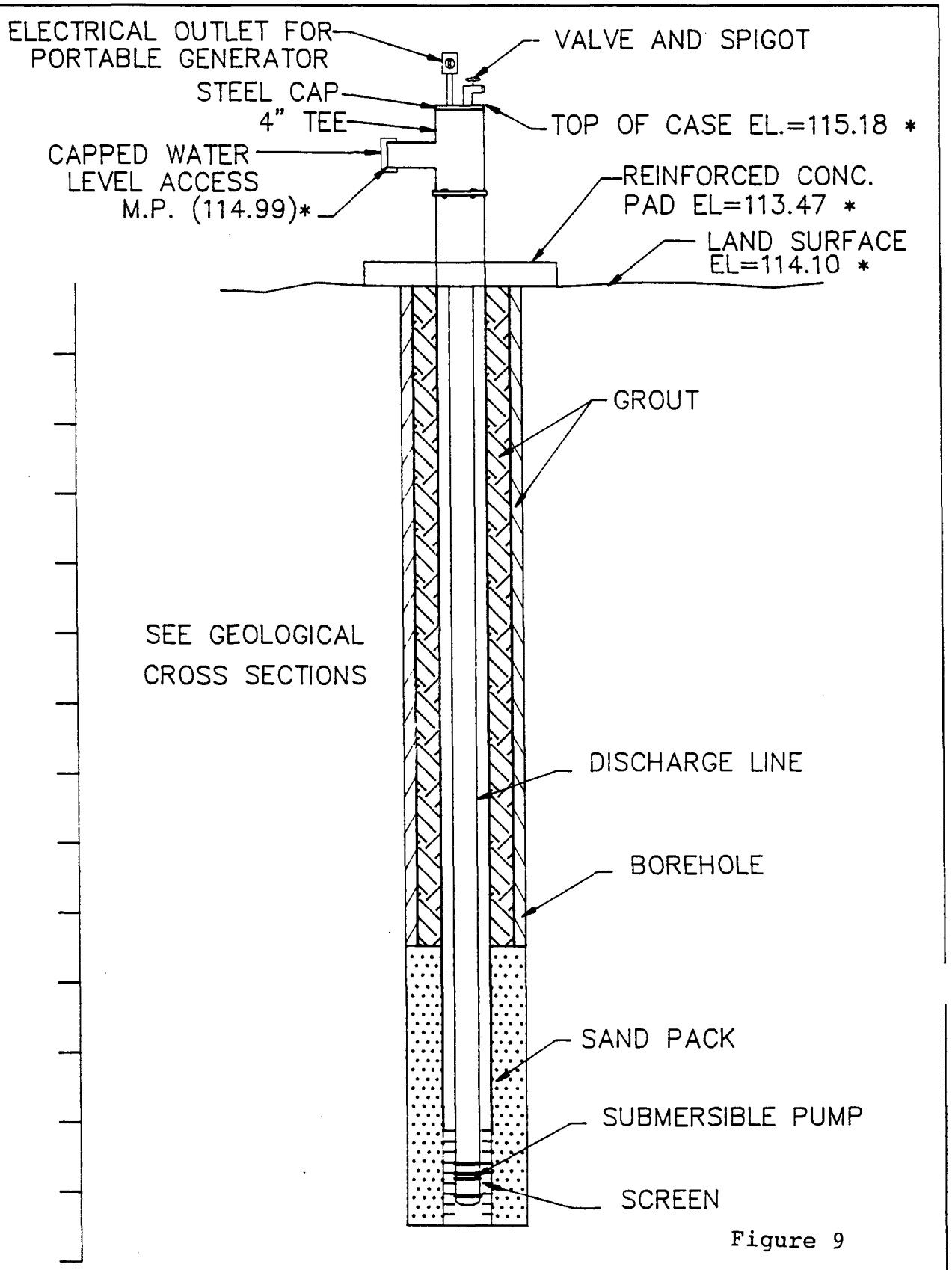


Figure 9

* C.C. D.T.S. SURVEY (DATE: 6/18/92)
* * SEABURN AND ROBERTSON, INC. MONITORING PLAN 1985

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL MW-C

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: BY: SHT. NO.

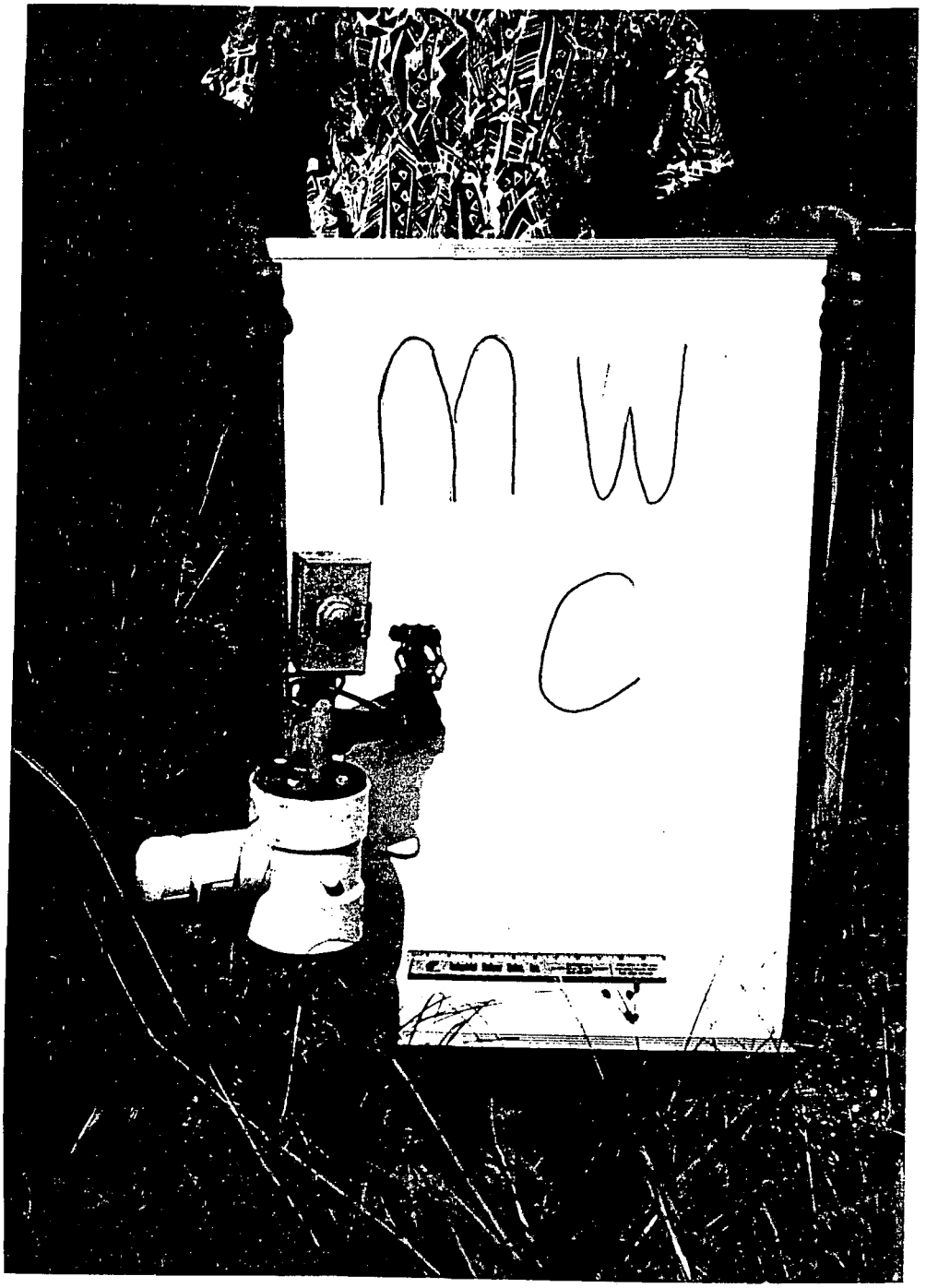


Figure 10.....Monitor Well "C" Photograph 1

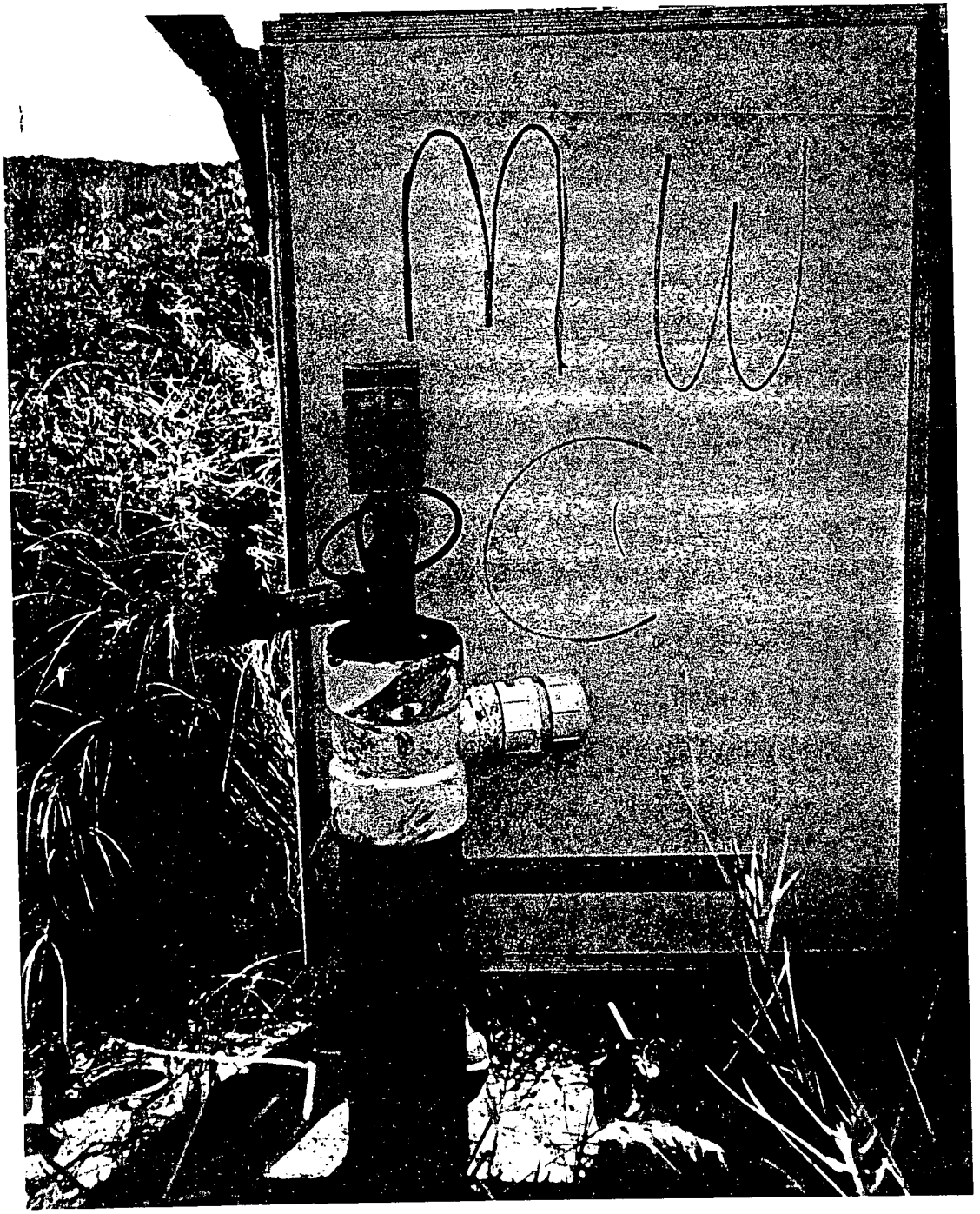


Figure 11 .....Monitor Well "C" Photograph 2

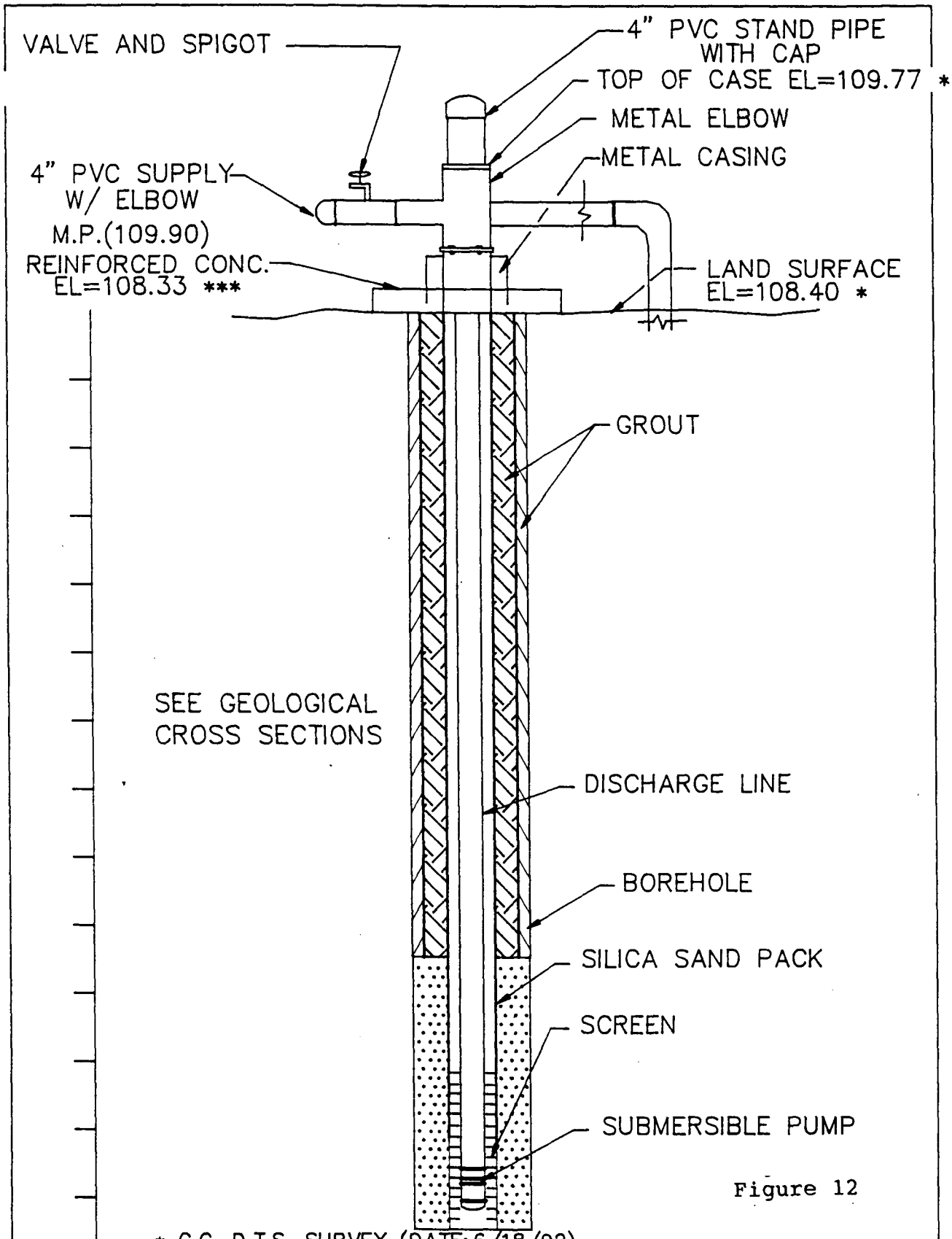


Figure 12

* C.C. D.T.S. SURVEY (DATE: 6/18/92)
** SEABURN AND ROBERTSON, INC. MONITORING PLAN 1985
*** C.C. D.T.S. SURVEY (DATE: 10/85)

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL MW-D

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: _____ BY: _____ SHT. NO. _____

Figure 13 .....Monitor Well "D" Photograph 1

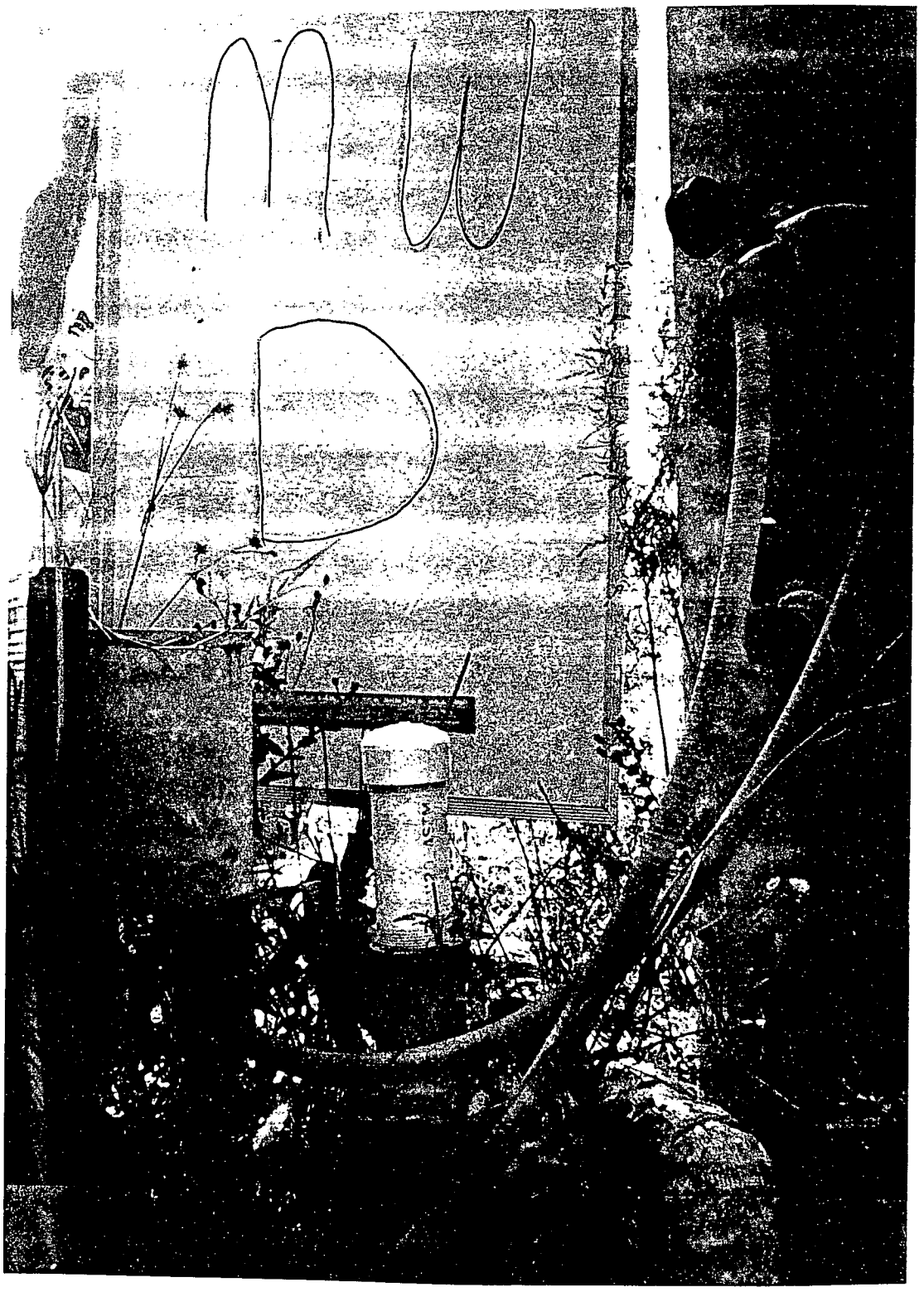


Figure 14 .....Monitor Well "D" Photograph 2

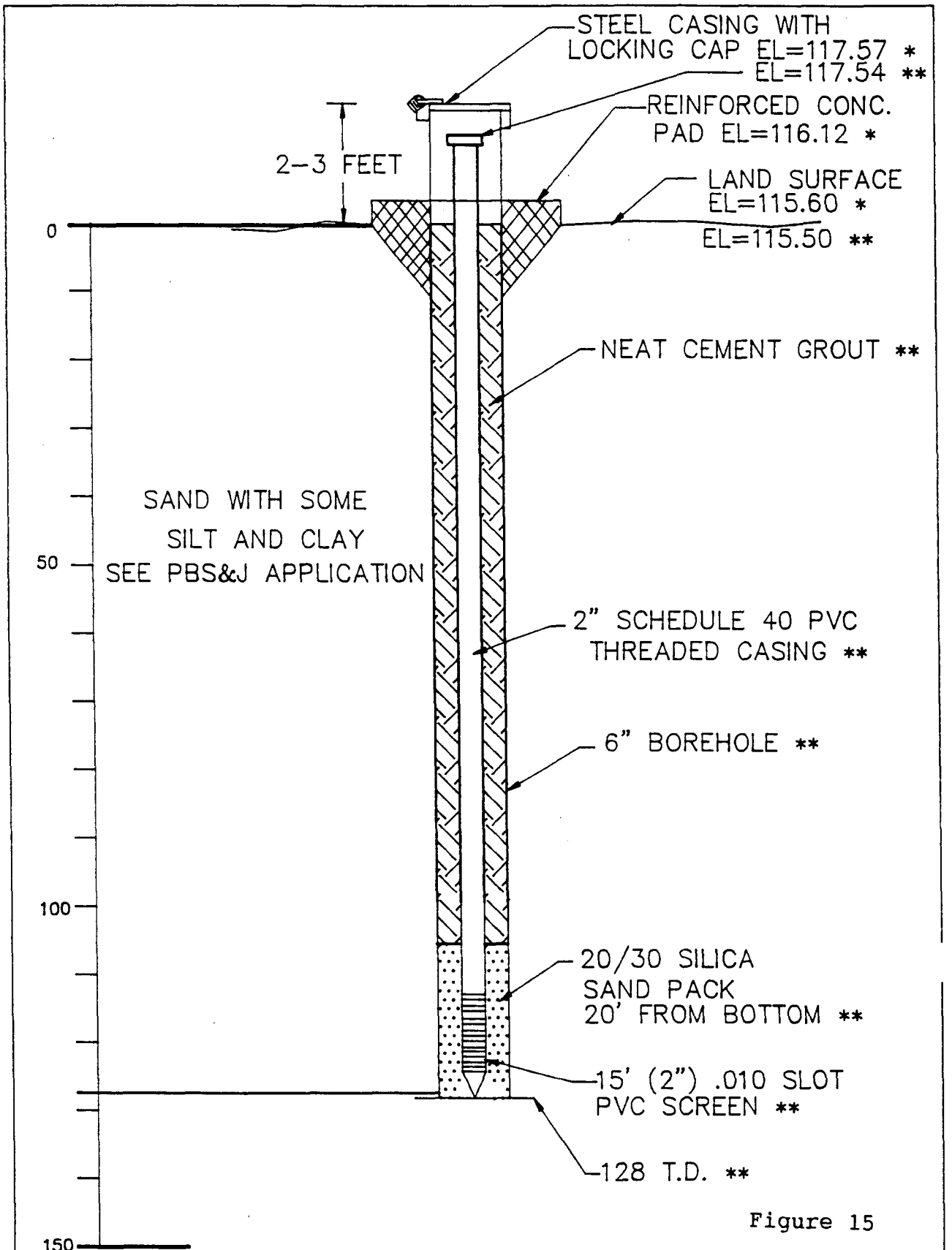


Figure 15

* C.C. D.T.S. SURVEY SECTION (DATE: 6/18/92)
** PBS&J CONSTRUCTION PERMIT APPLICATION SEPT. 1988

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL (B-1) MW-1

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: BY: SHT. NO.

Figure 16 .....Monitor Well "1" Photograph 1

Figure 17 .....Monitor Well "1" Photograph 2

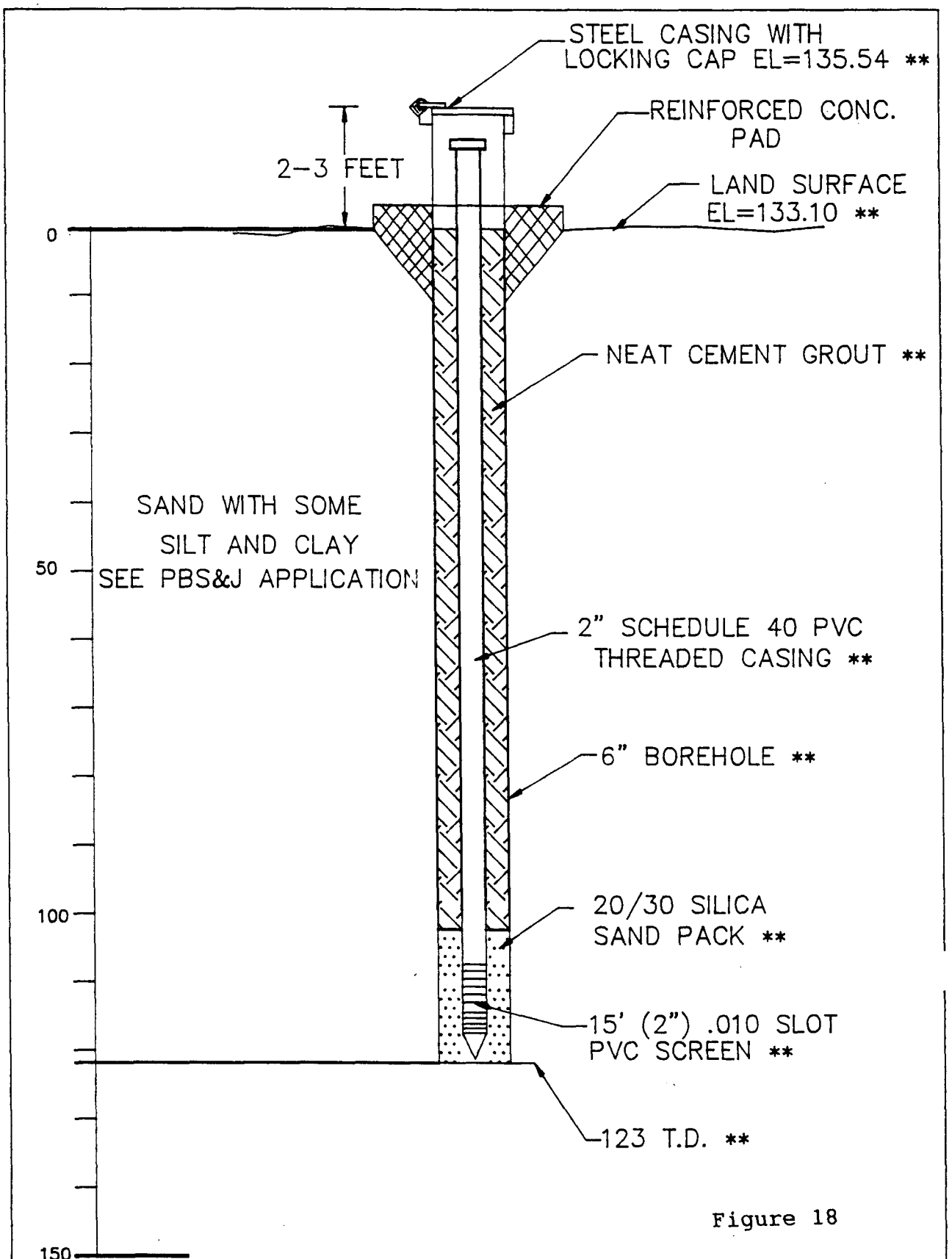


Figure 18

* C.C. D.T.S. SURVEY SECTION (DATE: 6/18/92)
** PBS&J CONSTRUCTION PERMIT APPLICATION SEPT. 1988

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL (B-2) MW-2

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: ____ BY: ____ SHT. NO. ____

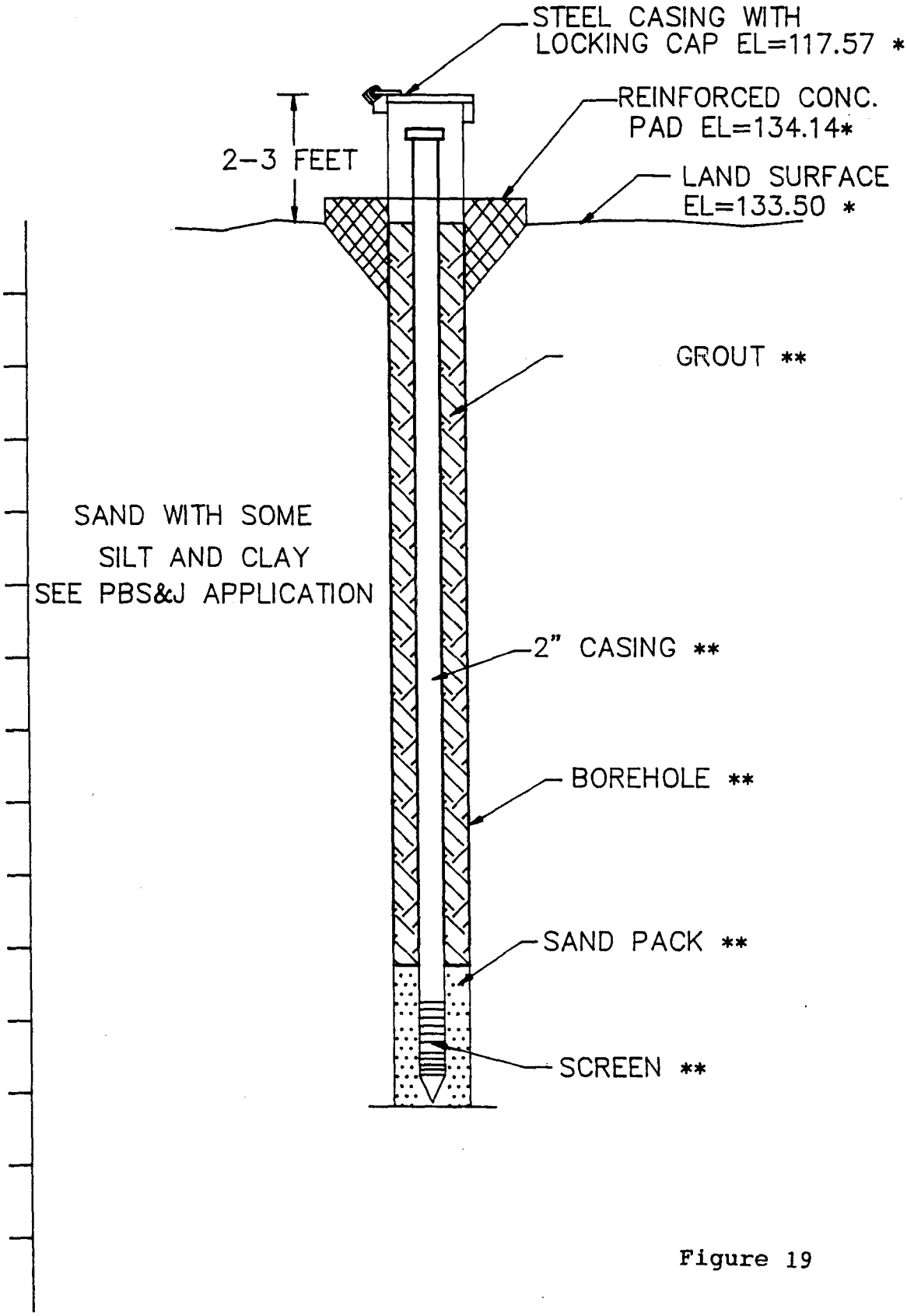


Figure 19

* C.C. D.T.S. SURVEY SECTION (DATE: 6/18/92)
** PBS&J CONSTRUCTION PERMIT APPLICATION SEPT. 1988

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL (B-2b) MW-2b

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: ____ BY: ____ SHT. NO. ____

Figure 20 .....Monitor Well "2b" Photograph 1

Figure 21 .....Monitor Well "2b" Photograph 2

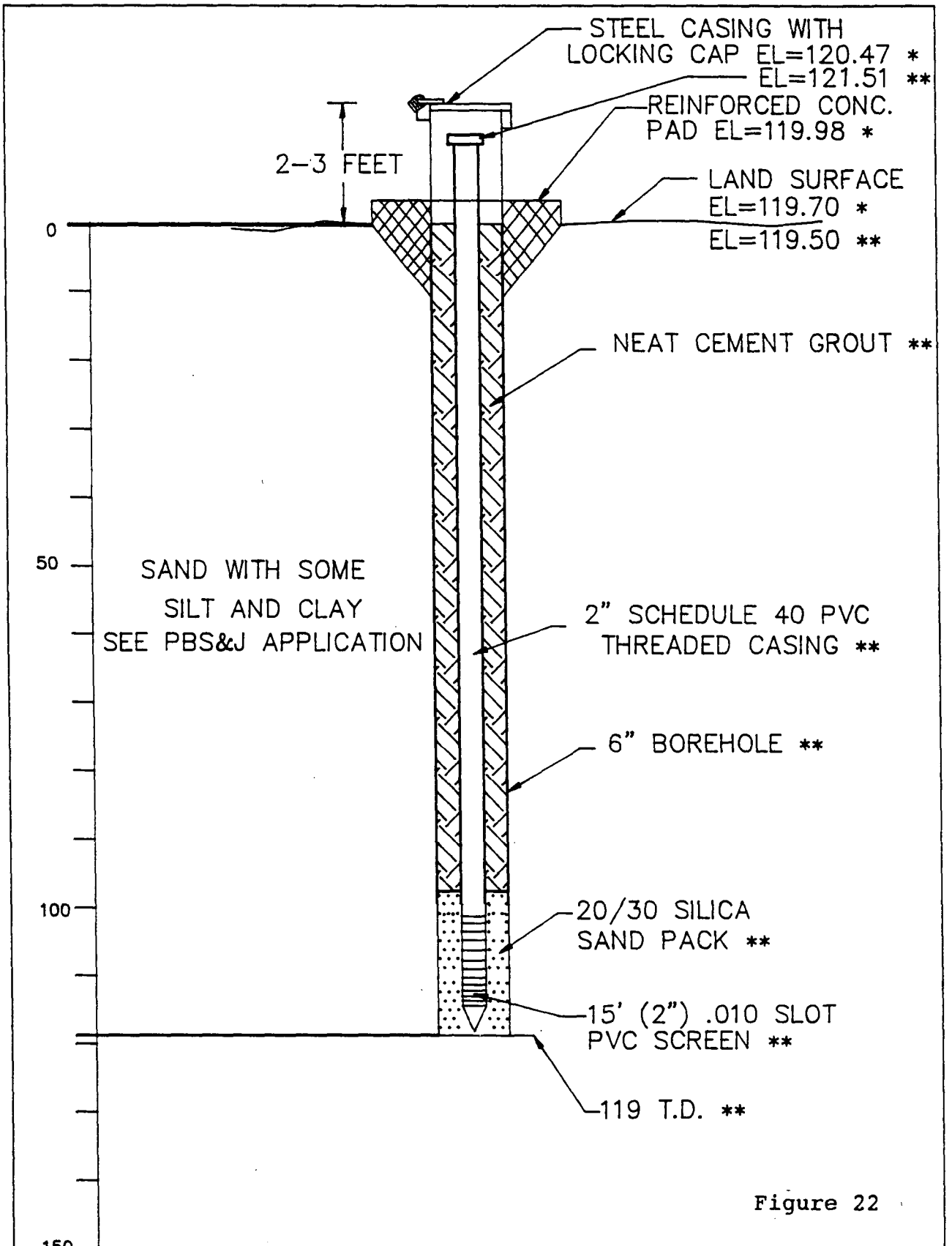


Figure 22

* C.C. D.T.S. SURVEY SECTION (DATE: 6/18/92)
** PBS&J CONSTRUCTION PERMIT APPLICATION SEPT. 1988

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION

SUBJECT: MONITOR WELL (B-3) MW-3

PROJECT: CITRUS COUNTY CENTRAL LANDFILL DATE: ____ BY: ____ SHT. NO. ____

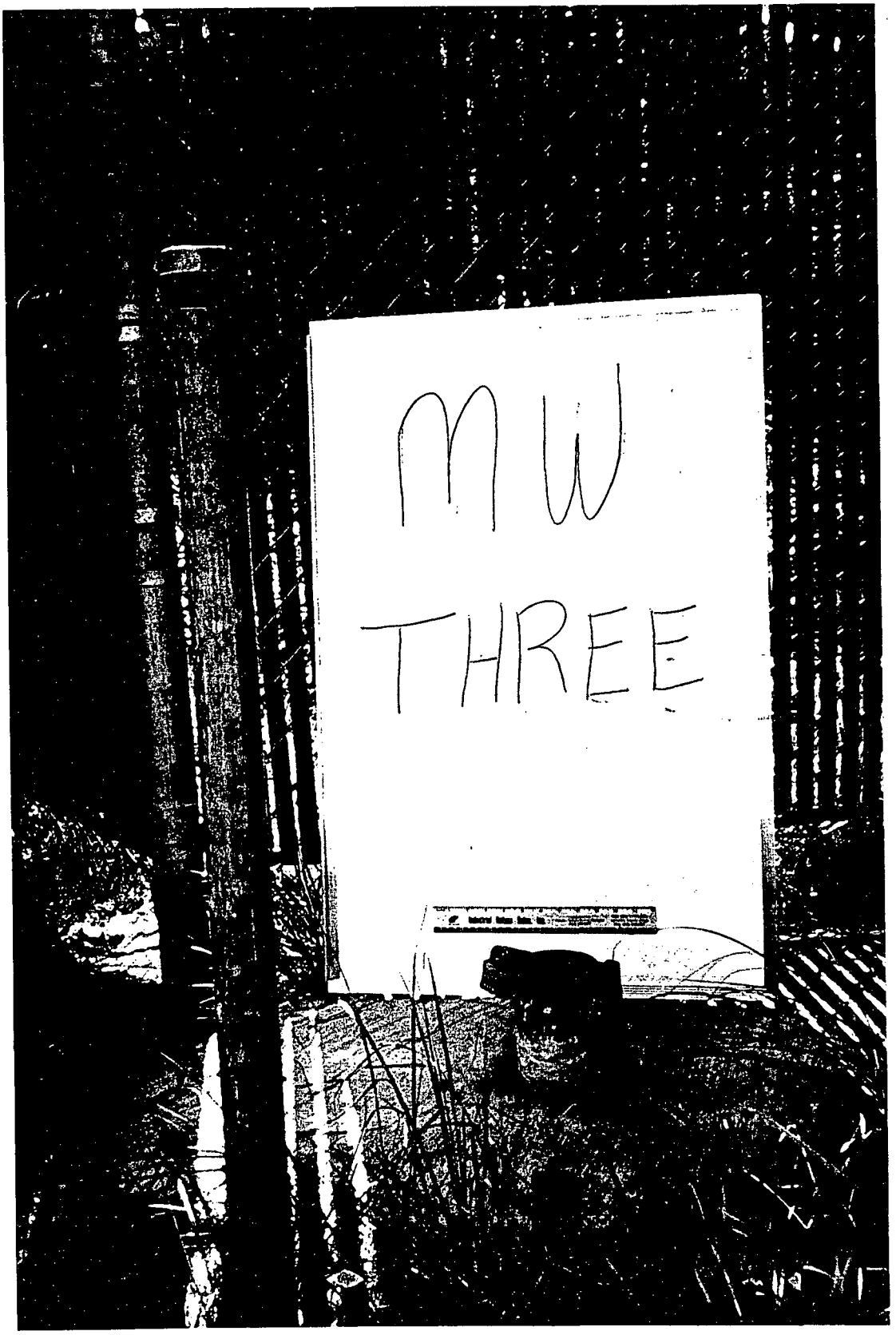


Figure 23 .....Monitor Well "3" Photograph 1

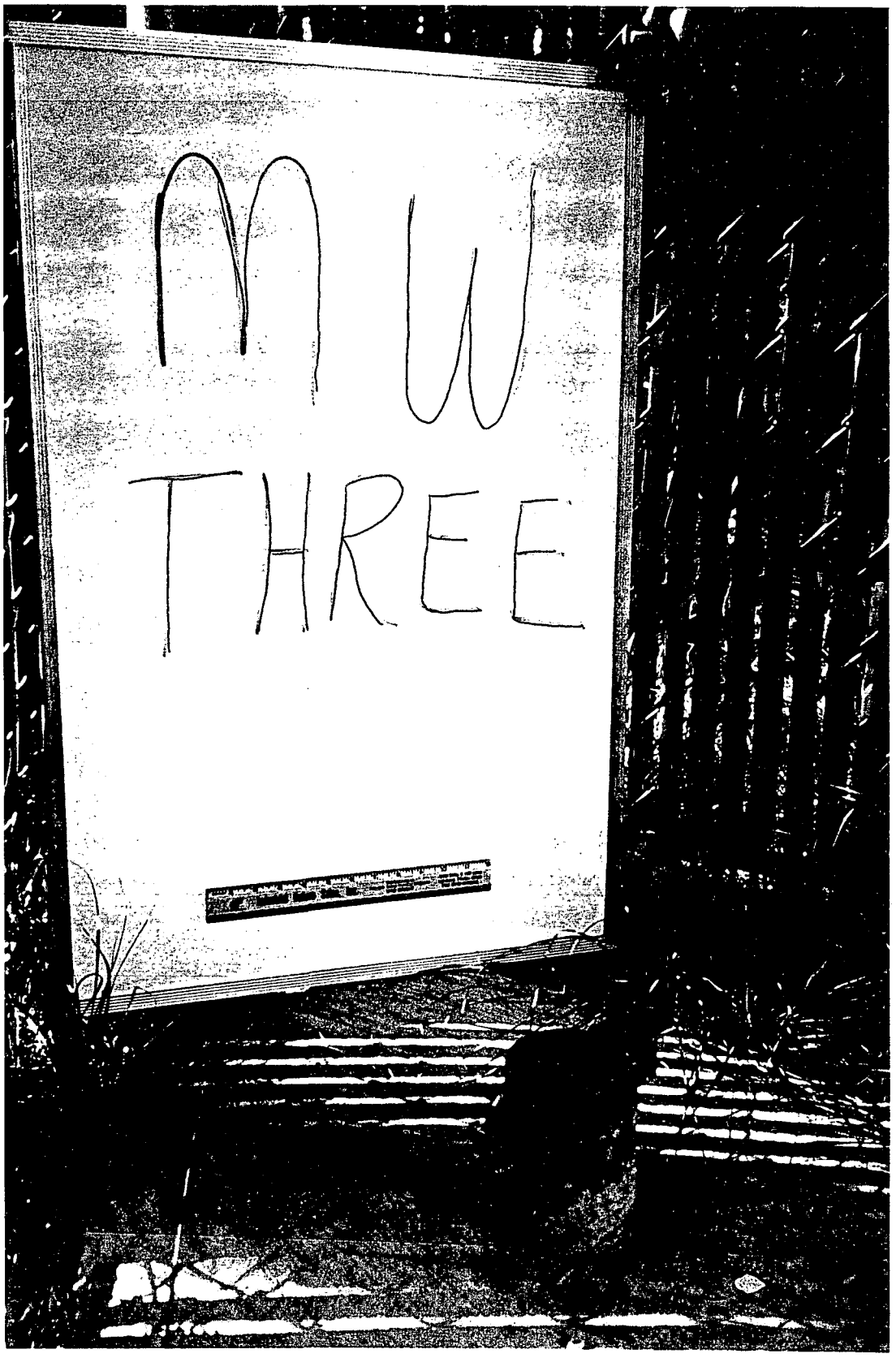
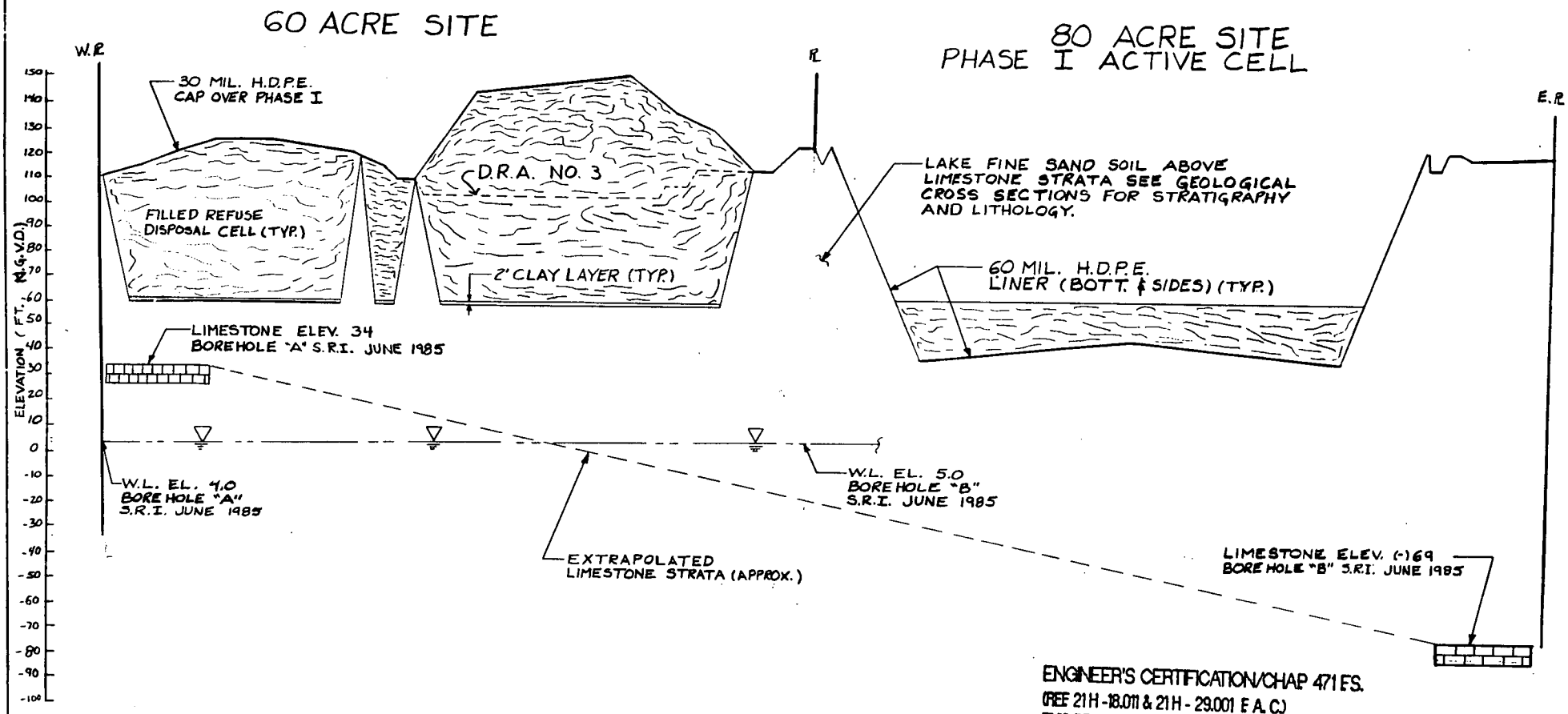


Figure 24 .....Monitor Well "3" Photograph 2



ENGINEER'S CERTIFICATION/CHAP. 471 F.S.
(REF 21H-18.011 & 21H-29.001 F.A.C.)
THIS DRAWING DEPICTS AS-BUILT DATA OBTAINED IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH APPLICABLE STANDARDS OF PRACTICE, CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, BUT IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESS OR IMPLIED.

200 0 100 200 400

HORIZ. SCALE 1" = 200'
VERT. SCALE 1" = 40'

Figure 25

CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: East-West Section
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 BY: JM/TF SHEET NUMBER

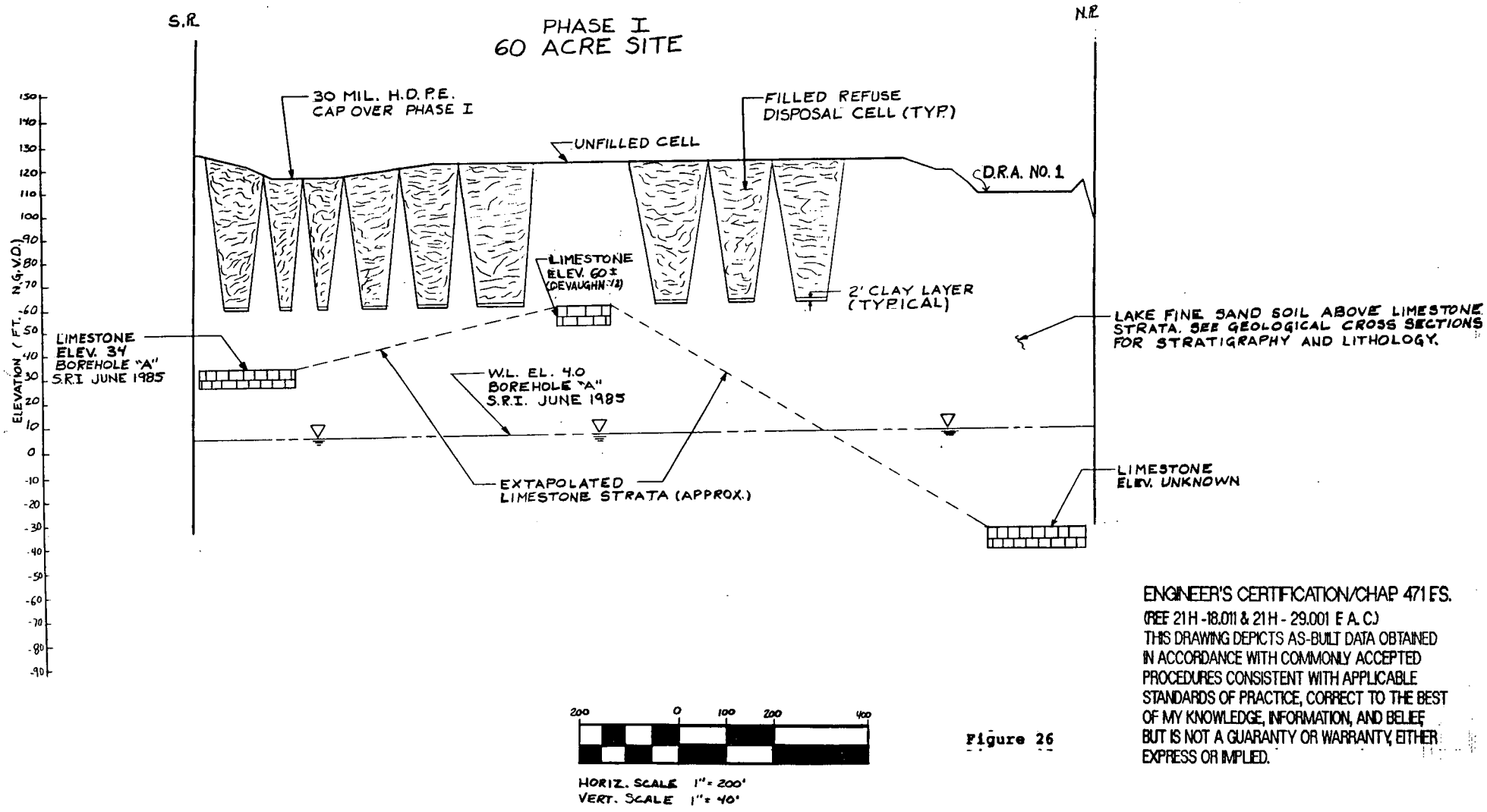


Figure 26

ENGINEER'S CERTIFICATION/CHAP 471 F.S.
(REF 21H-18.011 & 21H-29.001 F.A.C.)
THIS DRAWING DEPICTS AS-BUILT DATA OBTAINED IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH APPLICABLE STANDARDS OF PRACTICE, CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, BUT IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESS OR IMPLIED.

CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: North-South Section
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 BY: JM/TF SHEET NUMBER

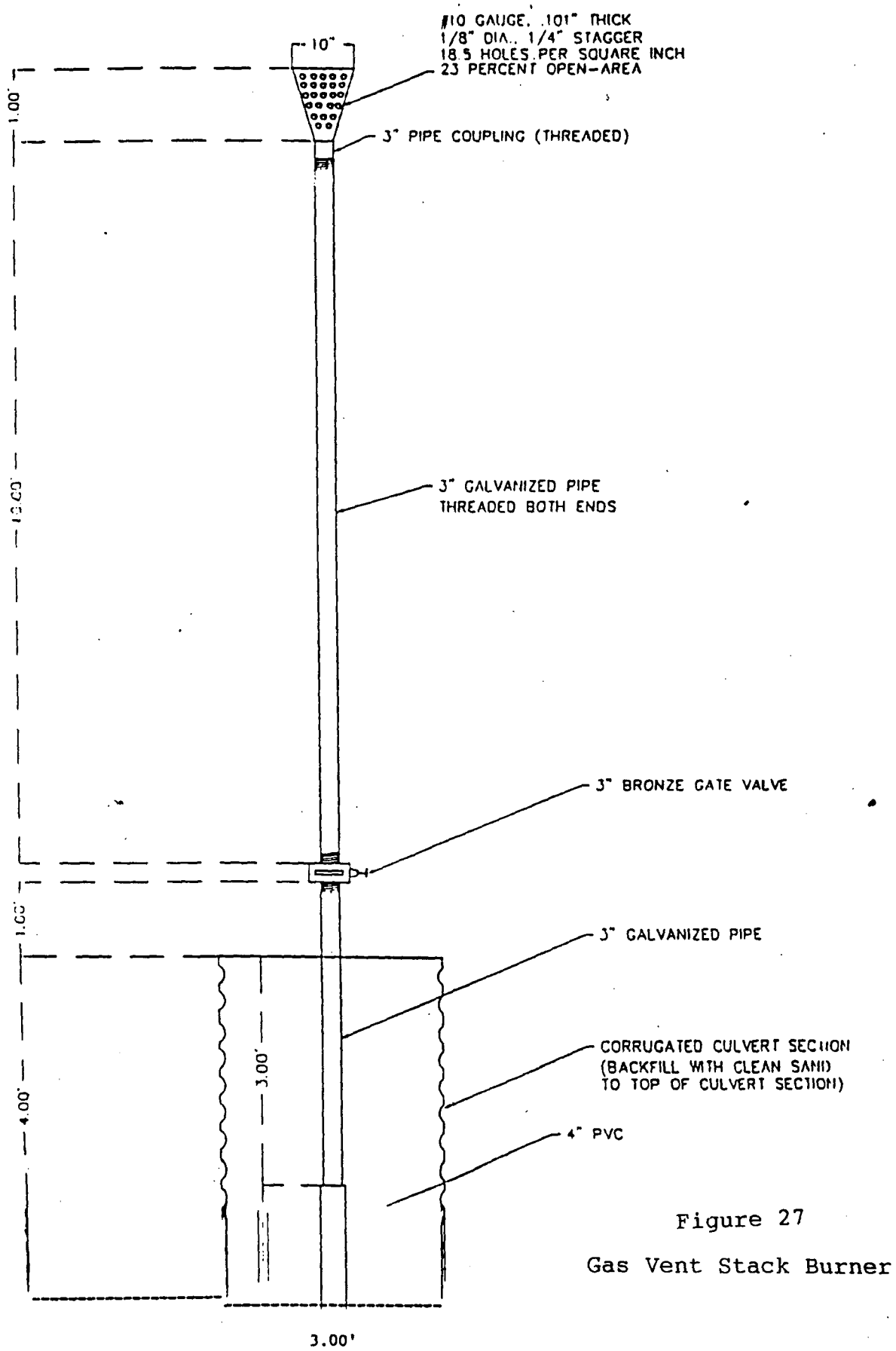
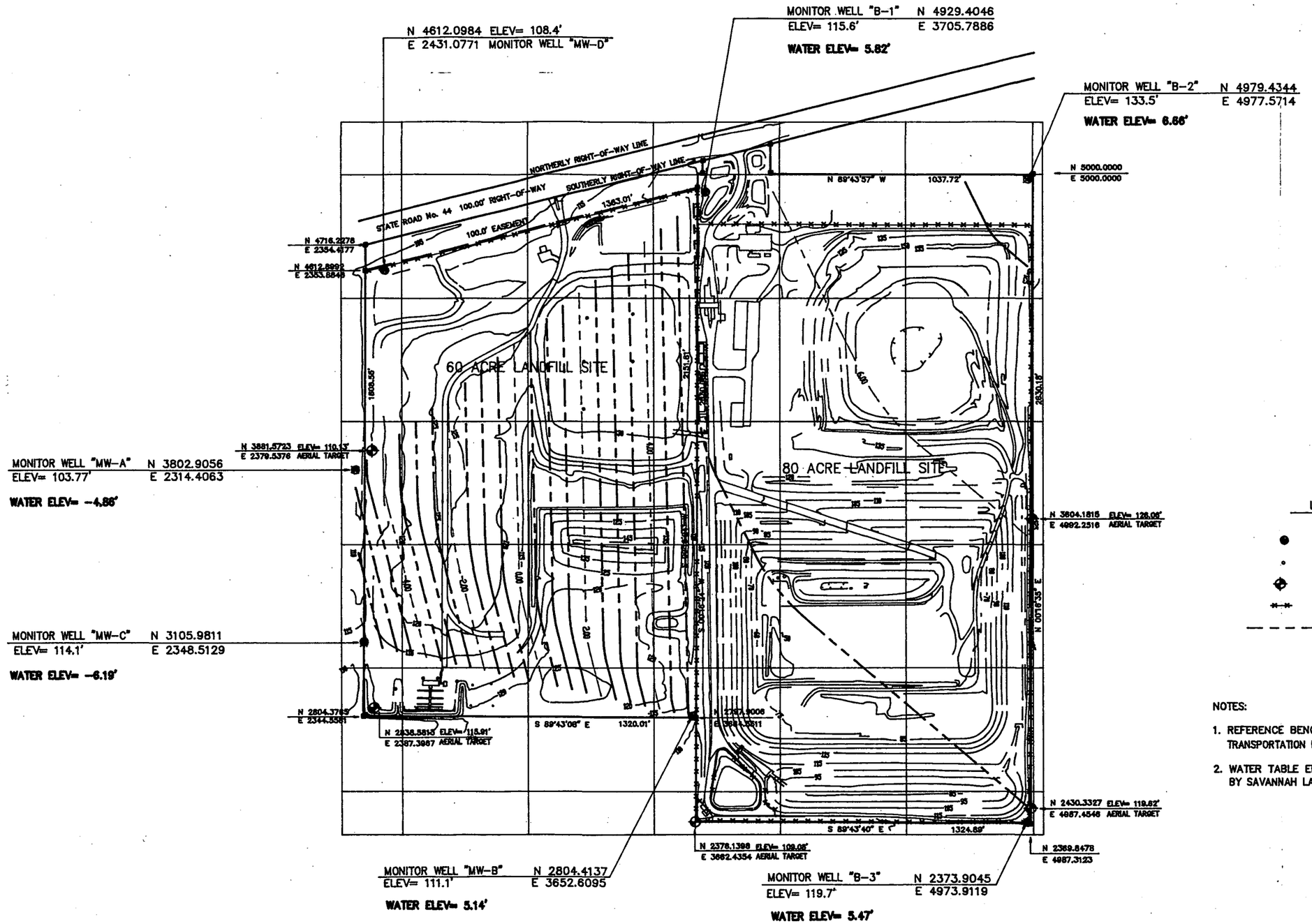


Figure 27

Gas Vent Stack Burner

CITRUS COUNTY FLORIDA DEPT. TECHNICAL SERVICES DIV. AQUATICS AND SOLID WASTE MANAGEMENT	PROJECT: LANDFILL CLOSURE AND LONG TERM CARE - 60 ACRE SITE	BY: CJW DATE: 9-18-92



LEGEND

- MONITOR WELL
- GAS VENT
- AERIAL TARGET
- FENCE
- POTENTIOMETRIC WATER SURFACE

NOTES:

1. REFERENCE BENCHMARK FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK No. 54 ELEVATION 115.05' NVGD
2. WATER TABLE ELEVATIONS WERE MEASURED IN 7-92 BY SAVANNAH LABORATORIES & ENVIORNMENTAL SERVICES INC.

REVISIONS	PRELIMINARY	DESIGN
BY / DATE	BY / DATE	BY / DATE
DRAWN		
DESIGNED		
CHECKED		

DEPARTMENT OF TECHNICAL SERVICES
CITRUS COUNTY, FLORIDA
ENGINEERING DEPARTMENT

APPROVED BY:
DATE

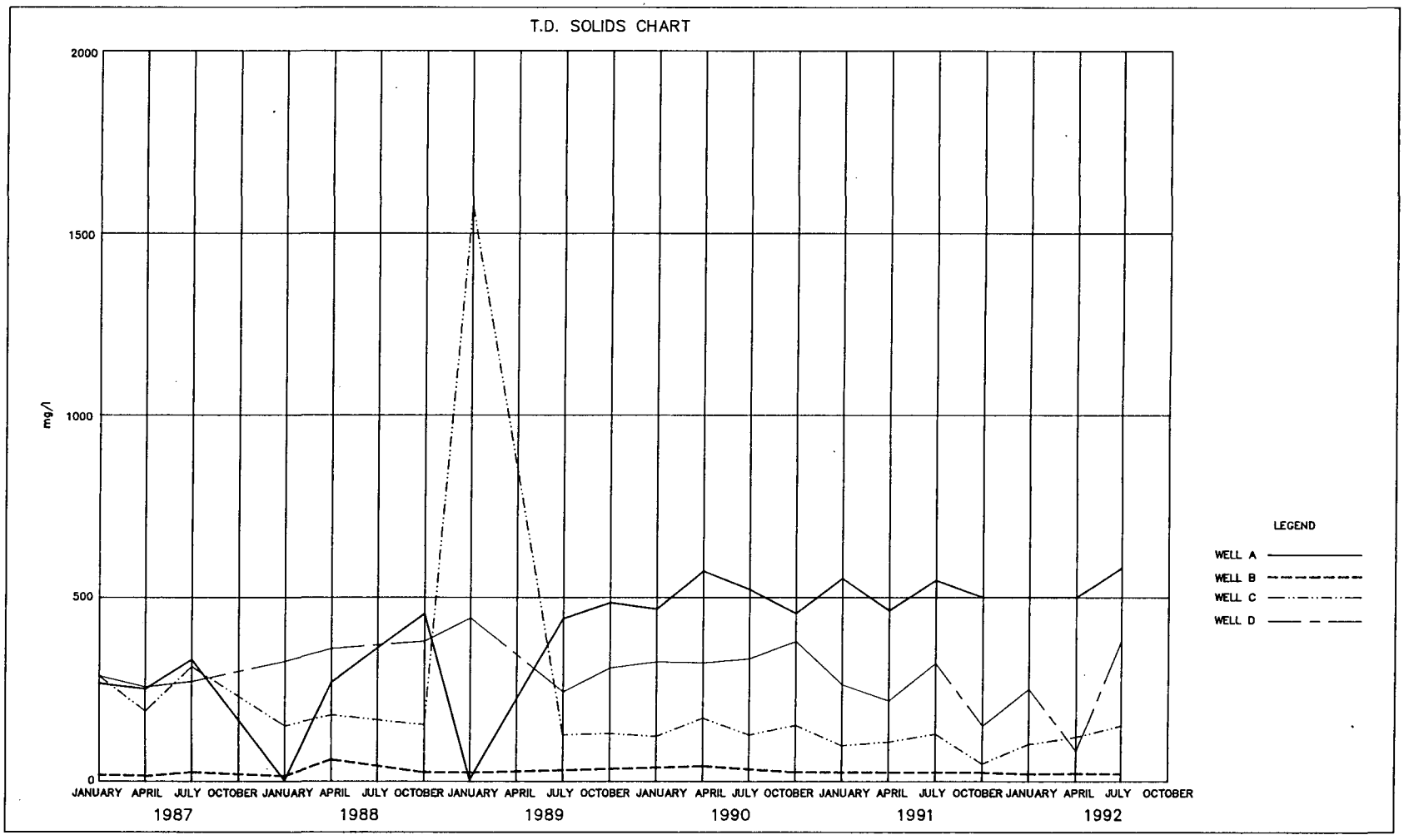
CITRUS COUNTY CENTRAL LANDFILL
POTENTIOMETRIC WATER SURFACE

SECTION 11 TOWNSHIP 19 RANGE 18

PROJECT NUMBER 89-615
SCALE 1"=400'
SHEET 5 OF 5
FILE:

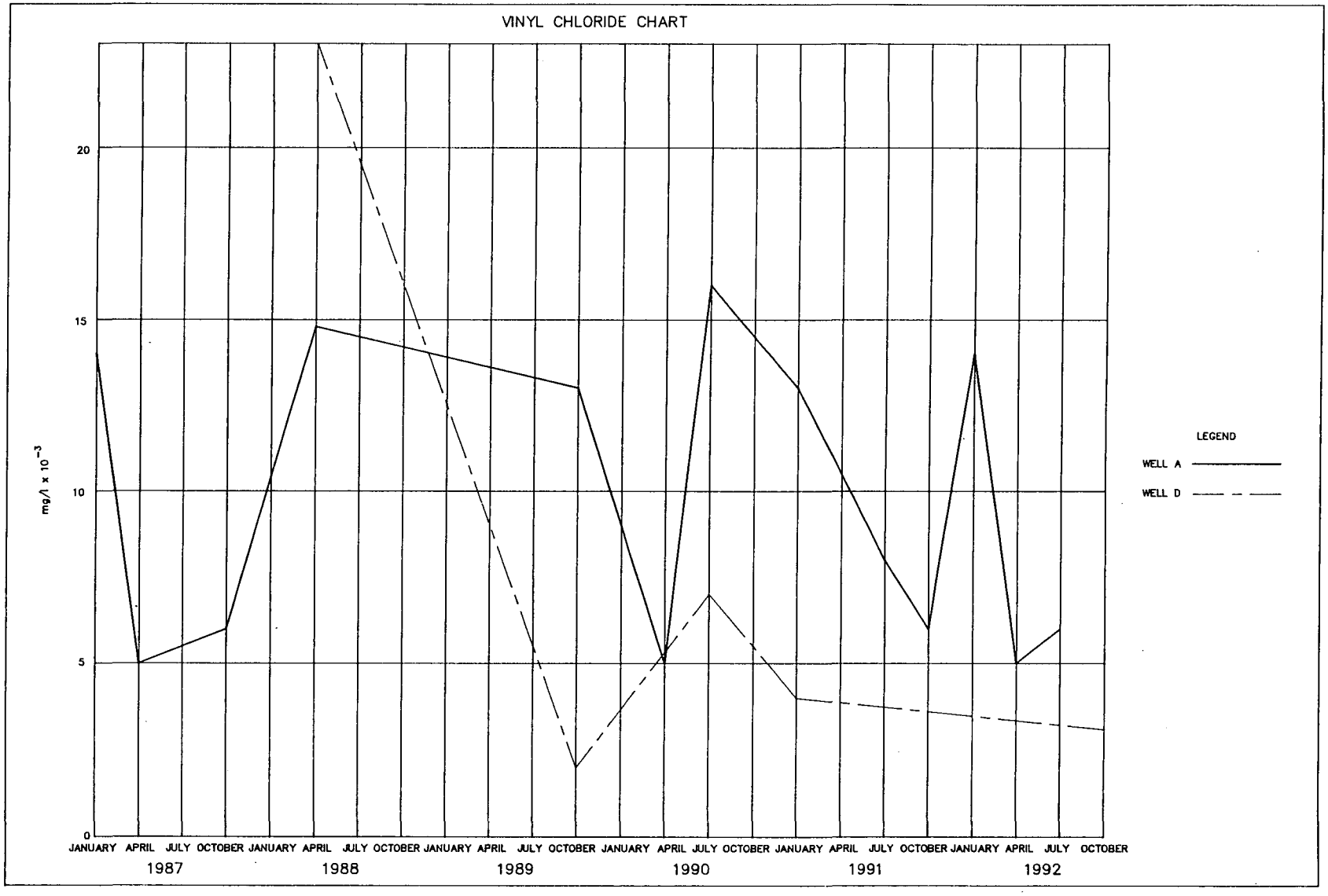
- APPENDICES-

GRAPHS OF
MCL'S



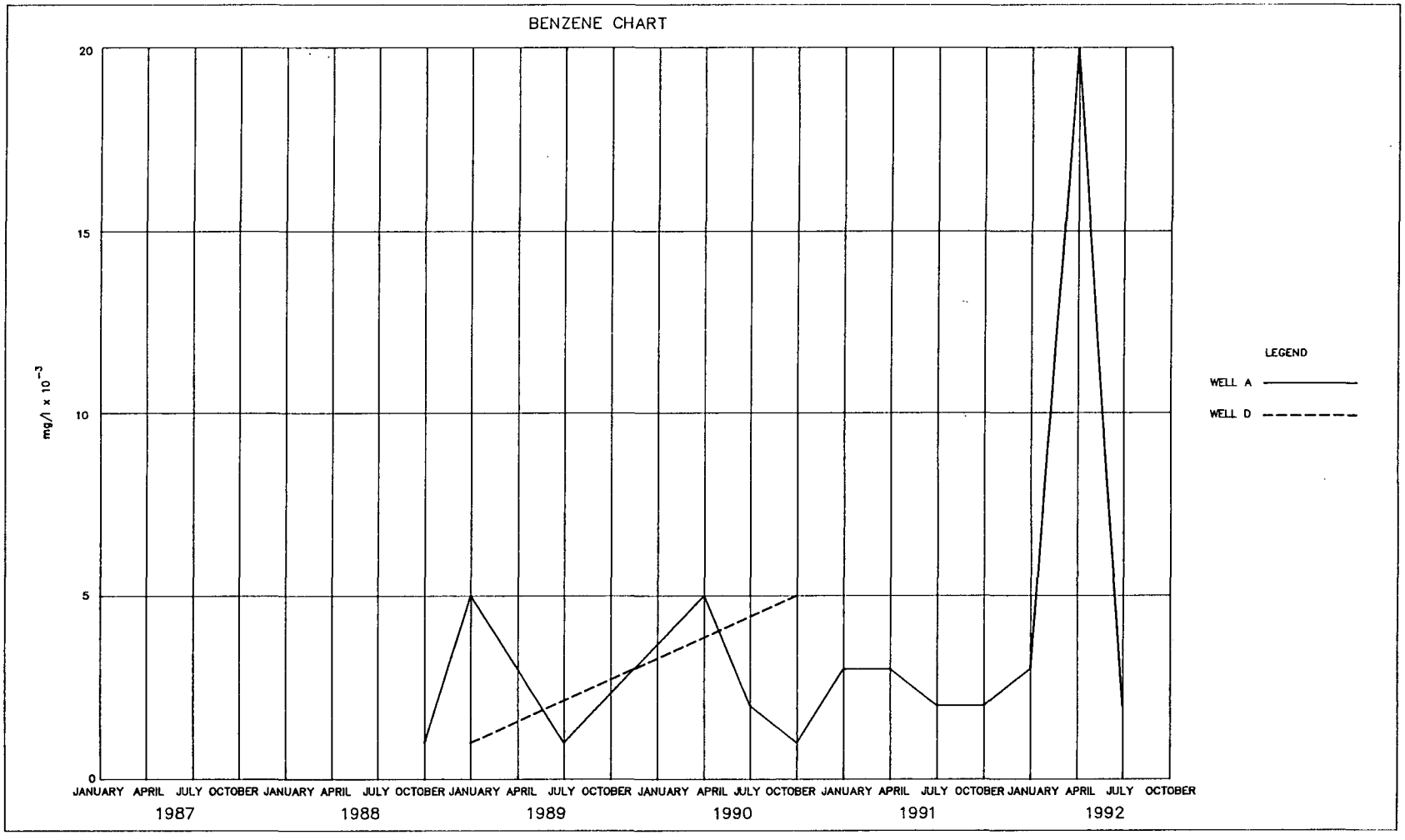
CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 BY: JM/TF SHEET NUMBER

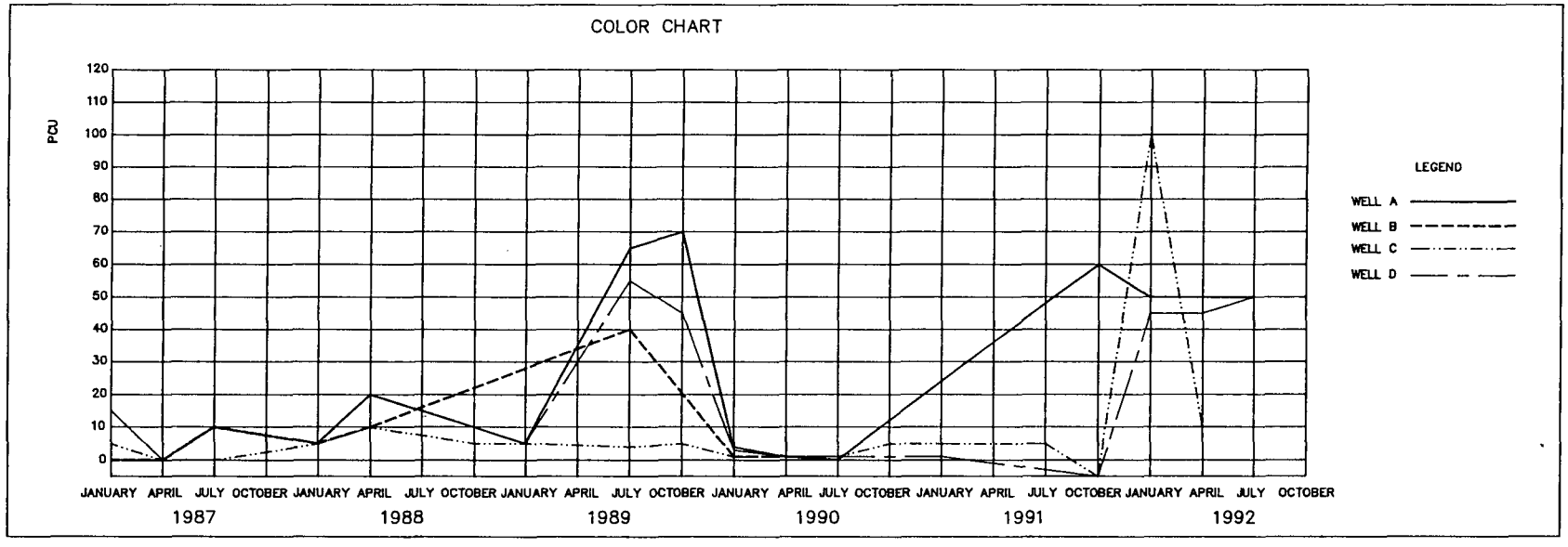


CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 **BY:** JM/TF **SHEET NUMBER** _____

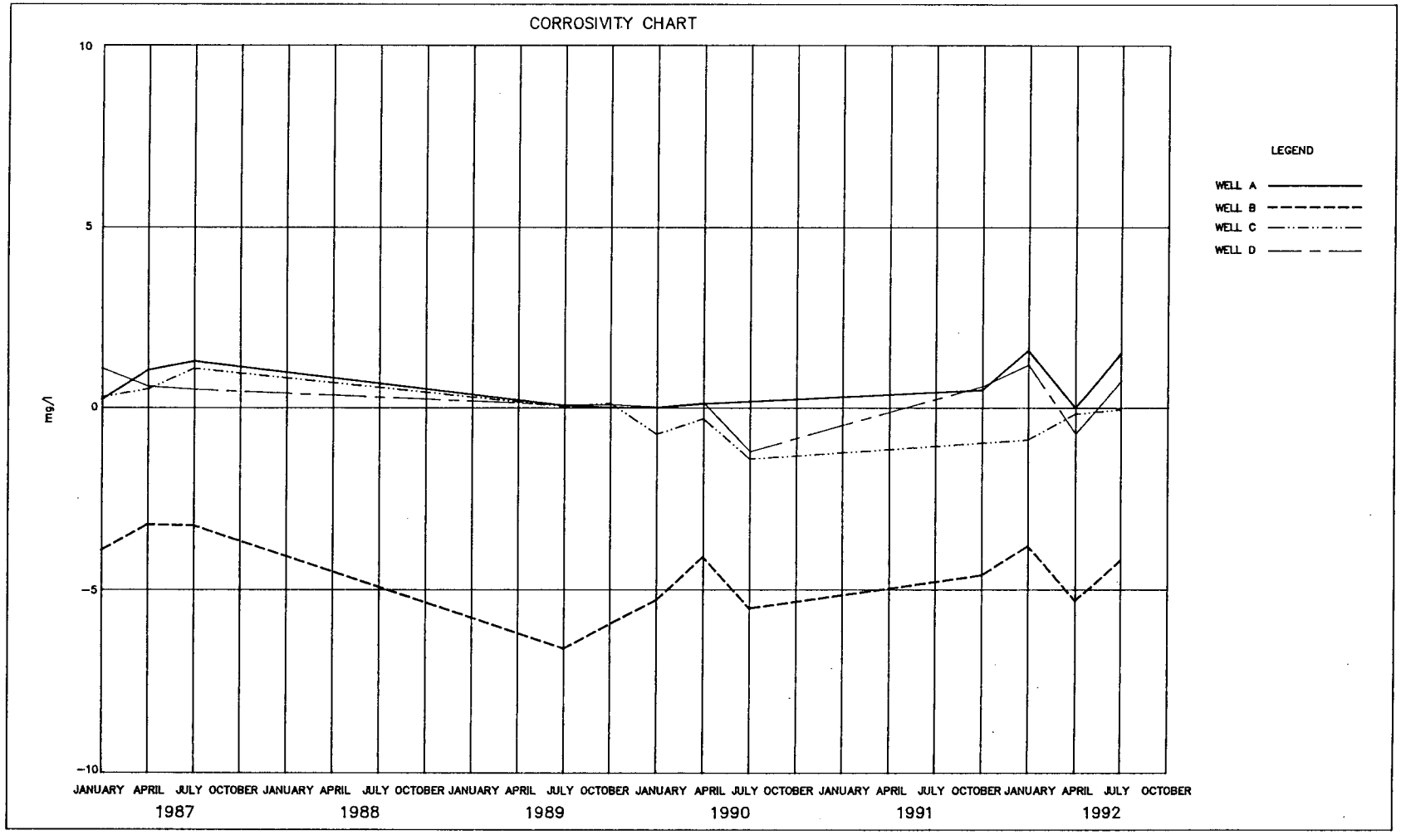


CITRUS COUNTY FLORIDA **DEPARTMENT OF TECHNICAL SERVICES** **ENGINEERING DIVISION**	**SUBJECT:** GROUNDWATER SAMPLING & TESTING RESULTS **PROJECT:** CITRUS COUNTY CENTRAL LANDFILL **DATE:** 10-92 **BY:** JM/TF **SHEET NUMBER**



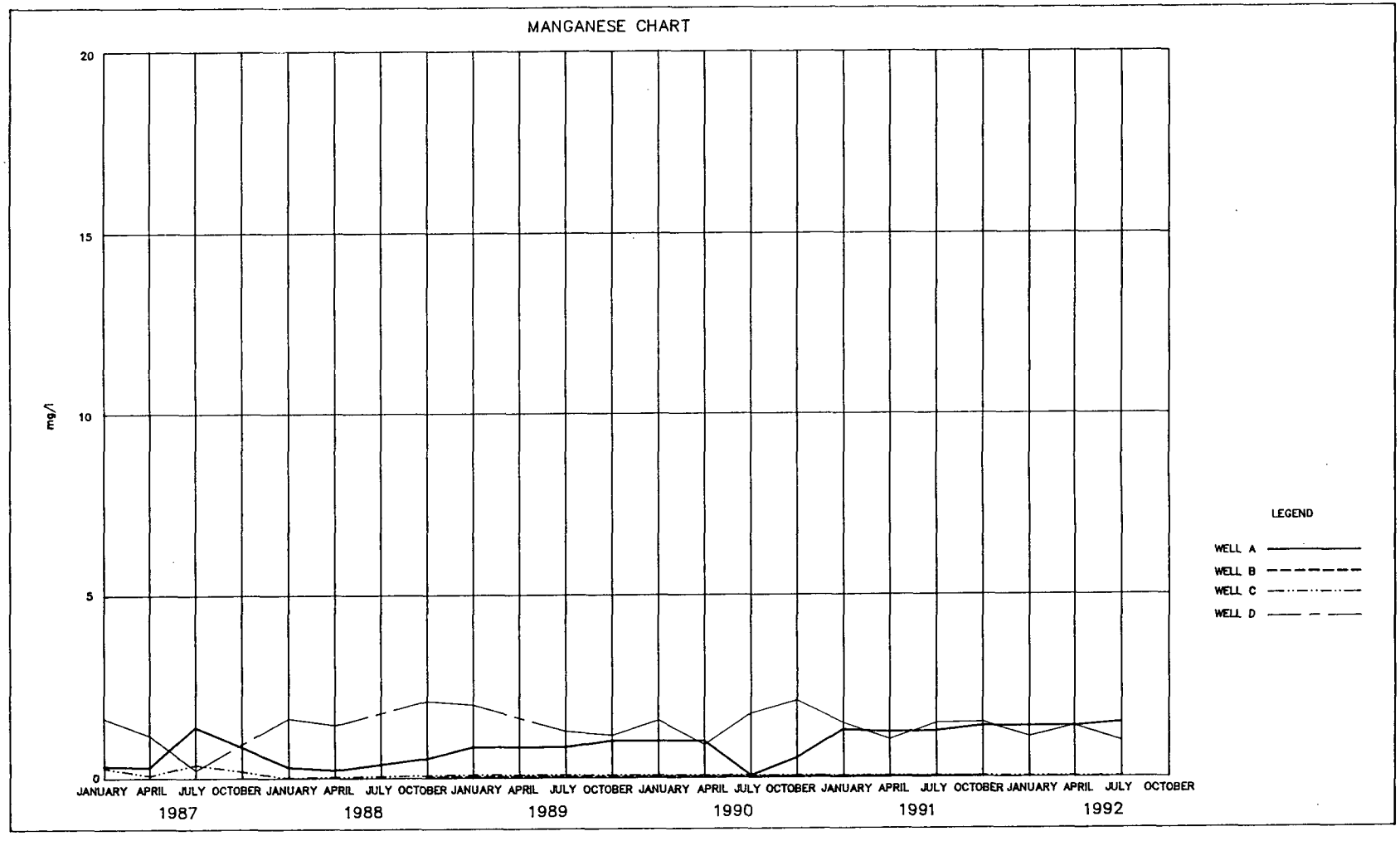
CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 BY: JM/TF SHEET NUMBER



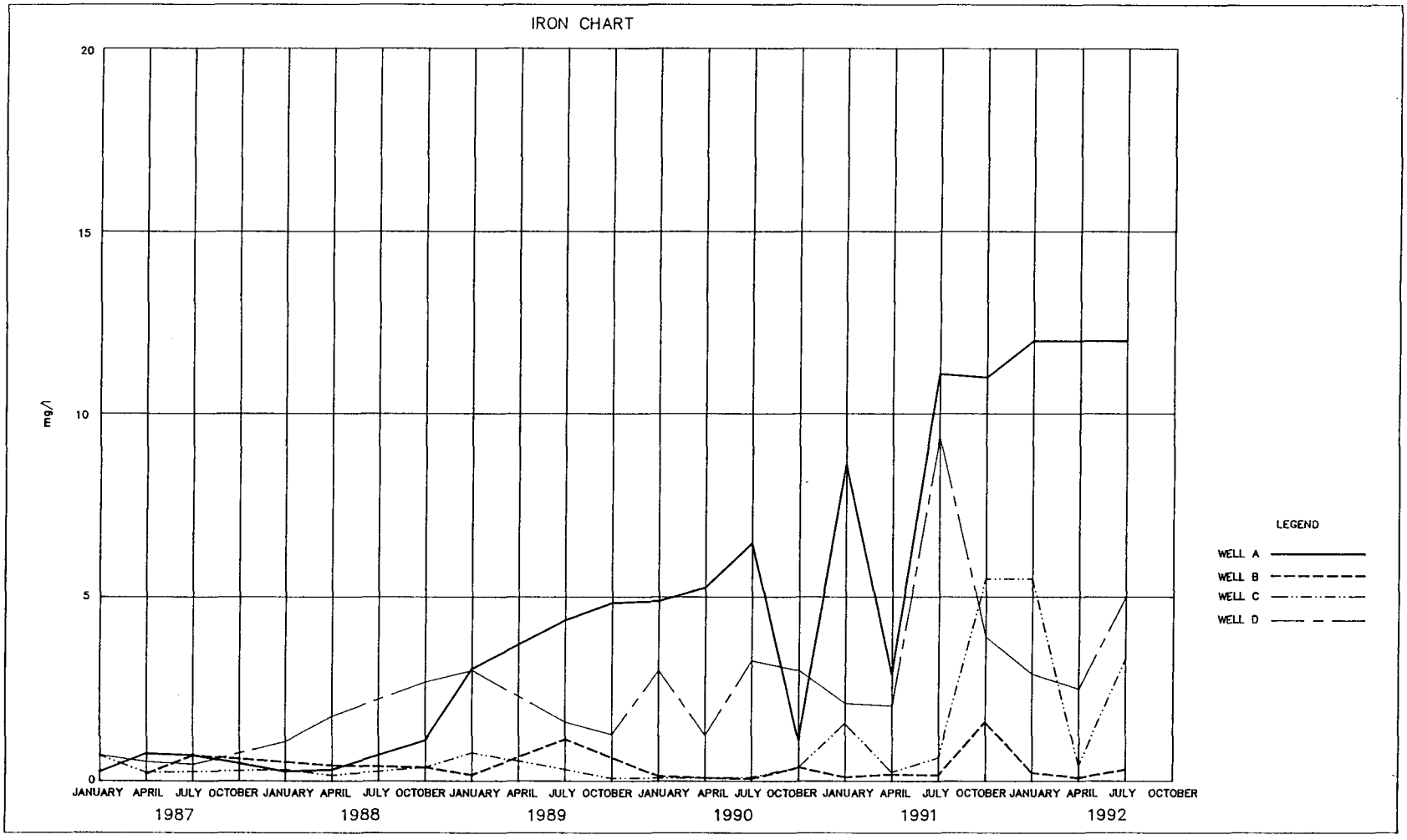
CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 **BY:** JM/TF **SHEET NUMBER**



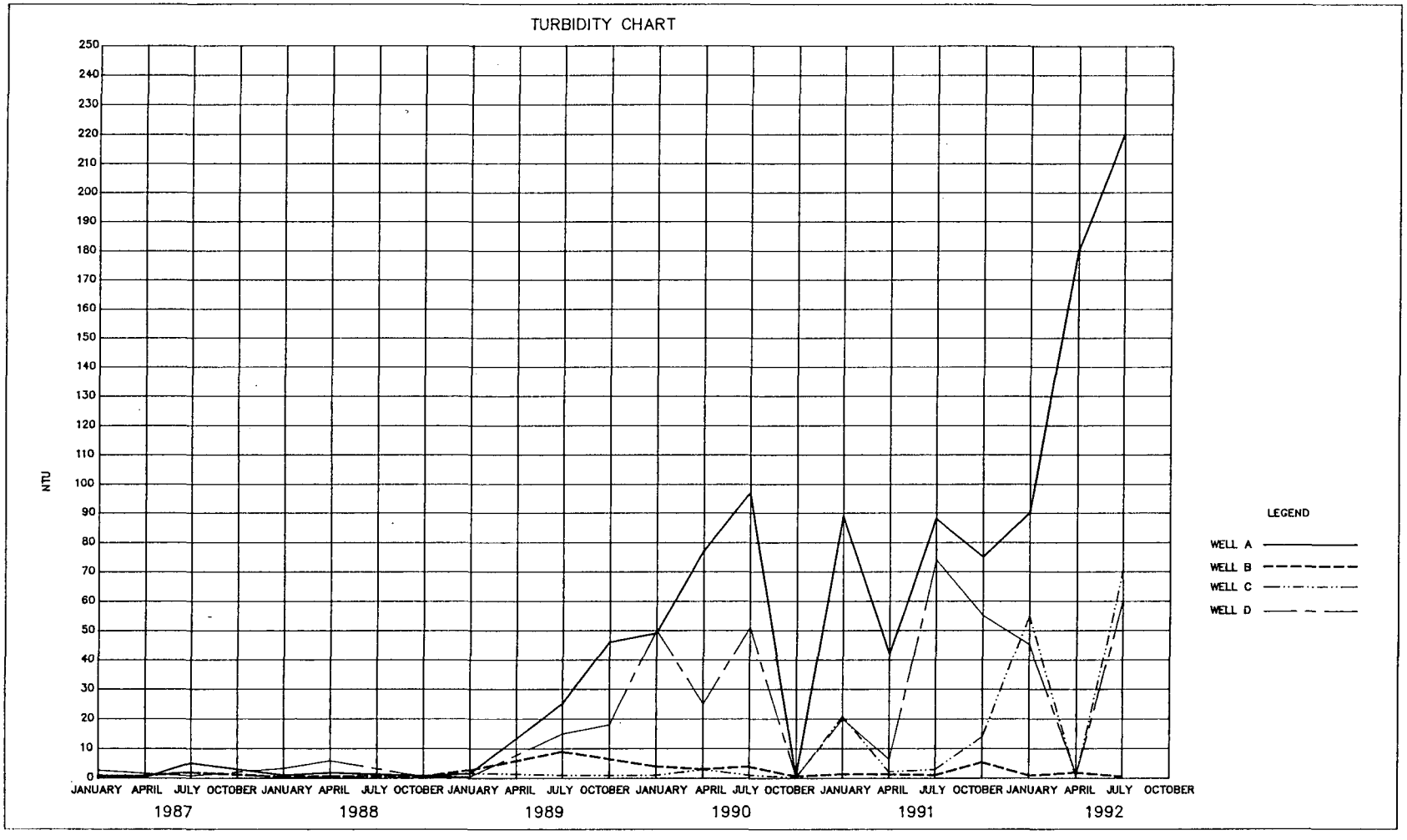
CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 **BY:** JM/TF **SHEET NUMBER** _____



CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 **BY:** JM/TF **SHEET NUMBER** _____



CITRUS COUNTY FLORIDA
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

SUBJECT: GROUNDWATER SAMPLING & TESTING RESULTS
PROJECT: CITRUS COUNTY CENTRAL LANDFILL
DATE: 10-92 **BY:** JM/TF **SHEET NUMBER** _____

ANALYSIS REPORT NOT AVALIABLE

FOR OCTOBER, 1987

GROUNDWATER MONITORING July 1987

Seaburn & Robertson, Inc.

REPORT OF ANALYSIS

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.03	0.49	<0.03	<0.03
Sodium	160	4.0	4.0	3.0	2.0
Turbidity	1	5.1	2.0	1.4	0.7
Chloride	250	12.0	4.0	3.0	3.0
Color	15	10	10	0	10
Copper	1	<0.01	<0.01	<0.01	<0.01
Corrosivity	-0.2 to +0.2	1.3	-3.2	1.1	1.1
Iron	0.3	0.71	0.50	0.26	0.45
Manganese	0.05	1.4	<0.05	0.37	0.22
Odor	3	1	2	4	1
pH (field)	6.5 - 8.5	----	----	----	----
! (lab)	6.5 - 8.5	8.3	6.7	8.2	8.1
Sulfate	250	3.3	1.6	2.5	3.8
Total Dissolved Solids	500	330	25.5	310	270
Zinc	5	0.11	0.18	<0.05	<0.05
Fecal Coliform	N/A	<3	<3	<3	<3
Nitrogen, Total Kjeldahl	N/A	0.12	<0.05	0.07	<0.05
Spec. Conductance (field)	N/A	498	42.0	480	432
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	25	24	25	25
Total Organic Carbon	N/A	12.4	<1.0	17.1	1.5

VOLATILE ORGANICS

Trichloroethene	0.003	BDL	----	----	----
Tetrachloroethene	0.003	BDL	----	----	----
Carbon Tetrachloride	0.003	BDL	----	----	----
Vinyl Chloride	0.0001	0.006	----	----	----

GROUNDWATER MONITORING
REPORT OF ANALYSIS
PAGE 2

July 1987

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	----	----	----
1,2, - Dichloroethane	0.003	BDL	----	----	----
Benzene	0.001	BDL	----	----	----
Ethylene Dibromide	0.00002	----	----	----	----
p-Dichlorobenzene	0.075	----	----	----	----
1,1 - Dichloroethene	0.007	0.002	----	----	----

NOTE: VOC's sampled on MW-A only

GROUNDWATER MONITORING April 1987

Seaburn & Robertson, Inc.

REPORT OF ANALYSIS

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.03	0.47	<0.03	<0.03
Sodium	160	4.0	4.0	2.0	4.0
Turbidity	1	0.2	0.9	0.8	1.6
Chloride	250	4.0	4.0	3.0	5.0
Color	15	0	0	0	0
Copper	1	<0.1	<0.01	<0.01	<0.01
Corrosivity	-0.2 to +0.2	1.05	-3.23	0.53	0.52
Iron	0.3	0.75	0.20	0.24	0.52
Manganese	0.05	0.30	<0.05	0.07	1.16
Odor	3	8	1	1	1
pH (field)	6.5 - 8.5	----	----	----	----
pH (lab)	6.5 - 8.5	8.1	6.8	7.9	7.6
Sulfate	250	3.4	<0.1	2.7	3.4
Total Dissolved Solids	500	250	14.5	190	255
Zinc	5	0.13	0.11	<0.05	1.10
Fecal Coliform	N/A	>200	<1	>200	<1
Nitrogen, Total Kjeldahl	N/A	0.10	0.16	0.12	0.25
Spec. Conductance (field)	N/A	430	35.5	315	440
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	24	22	23.5	24
Total Organic Carbon	N/A	2.3	<1.0	2.0	6.9

VOLATILE ORGANICS

Trichloroethene	0.003	BDL	----	----	----
Tetrachloroethene	0.003	BDL	----	----	----
Carbon Tetrachloride	0.003	BDL	----	----	----
Vinyl Chloride	0.0001	0.005	----	----	----

GROUNDWATER MONITORING
REPORT OF ANALYSIS
PAGE 2

April 1987

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	----	----	----
1,2, - Dichloroethane	0.003	BDL	----	----	----
Benzene	0.001	BDL	----	----	----
Ethylene Dibromide	0.00002	BDL	----	----	----
p-Dichlorobenzene	0.075				
1,1 - Dichloroethene	0.007				

NOTE: VOC sampled and analyzed on MW-A only.

GROUNDWATER MONITORING January 1987

Seaburn & Robertson, Inc.

REPORT OF ANALYSIS

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.03	0.44	<0.03	<0.03
Sodium	160	4.0	4.0	3.0	4.0
Turbidity	1	0.7	0.4	0.9	2.7
Chloride	250	4.2	5.2	4.2	7.3
Color	15	0	0	5	15
Copper	1	<0.01	<0.01	<0.01	<0.01
Corrosivity	°-0.2 to +0.2	0.24	-3.90	0.31	0.60
Iron	0.3	0.25	<0.10	0.70	0.70
Manganese	0.05	0.34	<0.05	0.28	1.64
Odor	3	1	1	1	1
pH (field)	6.5 - 8.5	----	----	----	----
pH (lab)	6.5 - 8.5	7.3	6.1	7.3	7.6
Sulfate	250	4.6	2.7	21.0	2.3
Total Dissolved Solids	500	265	17	285	283
Zinc	5	<0.05	0.09	<0.05	0.14
Fecal Coliform	N/A	<3	<3	<3	<3
Nitrogen, Total Kjeldahl	N/A	0.56	0.56	0.45	0.41
Spec. Conductance (field)	N/A	500	40.0	500	515
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	22	21	21	22.5
Total Organic Carbon	N/A	7.7	2.4	18.7	23.8

VOLATILE ORGANICS

Trichloroethene	0.003	BDL	BDL	BDL	BDL
Tetrachloroethene	0.003	BDL	BDL	BDL	BDL
Carbon Tetrachloride	0.003	BDL	BDL	BDL	BDL
Vinyl Chloride (mg/l)	0.0001	0.014	BDL	BDL	BDL

GROUNDWATER MONITORING REPORT OF ANALYSIS PAGE 2

January 1987

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	BDL	BDL	BDL
1,2, - Dichloroethane	0.003	BDL	BDL	BDL	BDL
Benzene	0.001	BDL	BDL	BDL	BDL
Ethylene Dibromide	0.00002	<.00002	<.00002	<.00002	<.00002
p-Dichlorobenzene	0.075				
1,1 - Dichloroethene	0.007				

Prepared by Seaburn & Robertson, Inc. February 1987

NOTE: "The standard for vinyl chloride was exceeded at Monitor Well A. This was the first time standards for any of the Volatile Organic Compounds (VOC) have been exceeded at the Citrus County Landfill. Seaburn and Robertson will recommend to the Citrus County Board of County Commissioners that Monitor Well A be resampled for all eight FAC Primary Drinking Water Standard VOC's (EPA Method 624 and HRS Method 501.2) during the next quarterly sampling episode."

GROUNDWATER MONITORING

October 1988
Flowers Laboratories

REPORT OF ANALYSIS

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.134	0.164	0.153	<.0130
Sodium	160	12	4	2.3	6
Turbidity	1	0.67	0.59	0.26	0.42
Chloride	250	6.41	3.8	18	10.5
Color	15	<5	<5	5	<5
Copper	1	0.161	<.0050	0.17	0.18
Corrosivity	-0.2 to +0.2	----	----	----	----
Iron	0.3	1.11	0.38	0.39	2.68
Manganese	0.05	0.53	.021	<.0050	2.103
Odor	3	<1	<1	<1	<1
pH (field)	6.5 - 8.5	7.11	5.87	7.31	7.29
pH (lab)	6.5 - 8.5	----	----	----	----
Sulfate	250	8.3	3.24	10	4.91
Total Dissolved Solids	500	456	25	152.5	380
Zinc	5	.075	0.15	.072	.131
Fecal Coliform	N/A	----	----	----	----
Nitrogen, Total Kjeldahl	N/A	0.2	<0.10	3.3	0.6
Spec. Conductance (field)	N/A	780	38	251	635
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	24.8	23.1	23.6	24.3
Total Organic Carbon	N/A	51	<1	13	37

VOLATILE ORGANICS

Trichloroethene	0.003	<.001	<.001	<.001	<.001
Tetrachloroethene	0.003	<.001	<.001	<.001	<.001
Carbon Tetrachloride	0.003	<.001	<.001	<.001	<.001
Vinyl Chloride	0.0001	<.001	<.001	<.001	<.001

GROUNDWATER MONITORING
REPORT OF ANALYSIS
PAGE 2

October 1988

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<.001	<.001	<.001	<.001
1,2, - Dichloroethane	0.003	<.001	<.001	<.001	<.001
Benzene	0.001	.00114	<.0005	<.0005	<.0005
Ethylene Dibromide	0.00002	<.000005	<.000005	<.000005	<.000005
p-Dichlorobenzene	0.075	<.0005	<.0005	<.0005	<.0005
1,1 - Dichloroethene	0.007	<.001	<.001	<.001	<.001

ANALYSIS REPORT NOT AVALIABLE

FOR JULY, 1988

GROUNDWATER MONITORING

REPORT OF ANALYSIS

April 1988
Flowers Laboratories

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.0130	0.187	<0.0130	<0.0130
Sodium	160	4	3.2	2.6	5.2
Turbidity	1	1.8	0.72	0.5	5.9
Chloride	250	6.08	3.6	3.94	14.3
Color	15	20	10	10	20
Copper	1	0.152	0.254	0.25	0.165
Corrosivity	-0.2 to +0.2	----	----	----	----
Iron	0.3	0.314	0.436	0.162	1.75
Manganese	0.05	0.214	<0.0050	<0.0050	1.44
Odor	3	<1	<1	<1	<1
pH (field)	6.5 - 8.5	----	----	----	----
pH (lab)	6.5 - 8.5	7.34	5.80	7.75	7.27
Sulfate	250	5.55	2.18	4.75	4.37
Total Dissolved Solids	500	268	60	180	360
Zinc	5	0.164	0.131	0.101	0.206
Fecal Coliform	N/A	<1	<1	<1	5
Nitrogen, Total Kjeldahl	N/A	<0.10	0.19	<0.10	0.37
Spec. Conductance (field)	N/A	415	30	245	593
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	24.8	22.9	23.7	24.1
Total Organic Carbon	N/A	75	5	37	142

VOLATILE ORGANICS

Trichloroethene	0.003	<.001	<.001	<.001	<.001
Tetrachloroethene	0.003	<.001	<.001	<.001	<.001
Carbon Tetrachloride	0.003	<.001	<.001	<.001	<.001
Vinyl Chloride	0.0001	.0148	<.001	<.001	.0233

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<.001	<.001	<.001	<.001
1,2, - Dichloroethane	0.003	<.001	<.001	<.001	<.001
Benzene	0.001	<.0005	<.0005	<.0005	<.0005
Ethylene Dibromide	0.00002	<.0050	<.0050	<.0050	<.0050
p-Dichlorobenzene	0.075	.0027	<.0005	<.0005	.0059
1,1 - Dichloroethene	0.007	<.001	<.001	<.001	<.001

Portion of Report

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<.0130	0.31	<.0130	<.0130
Sodium	160	3.8	3.8	2.7	4.9
Turbidity	1	0.92	0.37	0.22	3.3
Chloride	250	7.58	5.83	3.52	13.6
Color	15	5	5	5	5
Copper	1	<.0050	<.0050	<.0050	<.0050
Corrosivity	-0.2 to +0.2	----	----	----	----
Iron	0.3	0.26	<.010	0.32	1.07
Manganese	0.05	0.3	<.0050	.005	1.63
Odor	3	3	2	3	6
pH (field)	6.5 - 8.5	7.05	7.00	7.01	7.00
(lab)	6.5 - 8.5	----	----	----	----
Sulfate	250	7.85	2.04	3.98	4.87
Total Dissolved Solids	500	244	14.5	150	325
Zinc	5	.025	.025	.025	0.08
Fecal Coliform	N/A				
Nitrogen, Total Kjeldahl	N/A				
Spec. Conductance (field)	N/A	427	31	223	598
Spec. Conductance (lab)	N/A				
Temperature (field)	N/A	24.6	20.3	24.3	23.8
Total Organic Carbon	N/A				

VOLATILE ORGANICS

Trichloroethene	0.003				
Tetrachloroethene	0.003				
Carbon Tetrachloride	0.003				
Vinyl Chloride	0.0001				
VOC analysis not avail.					

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January 1988

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2				
1,2, - Dichloroethane	0.003				
Benzene	0.001				
Ethylene Dibromide	0.00002				
p-Dichlorobenzene	0.075				
1,1 - Dichloroethene	0.007				

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.129	0.247	<0.010	<0.010
Sodium	160	7.18	2.49	2.25	4.39
Turbidity	1	46	8	<1	18
Chloride	250	7	5	4	9
Color	15	70	10	5	45
Copper	1	<0.020	0.039	<0.020	<0.020
Corrosivity	-0.2 to +0.2	+0.01	<5.77	+0.14	+0.10
Iron	0.3	4.840	0.201	0.089	1.260
Manganese	0.05	1.011	<0.020	<0.020	1.149
Odor	3	8	4	2	8
pH (field)	6.5 - 8.5	6.60	5.64	7.75	7.11
pH (lab)	6.5 - 8.5	6.97	5.78	7.89	7.08
Sulfate	250	6	5	6	9
Total Dissolved Solids	500	486	<40	130	307
Zinc	5	0.026	0.265	<0.010	0.560
Fecal Coliform	N/A	<0.500	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	bdl	<0.500	<0.500	<0.500
Spec. Conductance (field)	N/A	850	30	220	500
Spec. Conductance (lab)	N/A	729	34	208	469
Temperature (field)	N/A	24.0	24.0	26.0	25.0
Total Organic Carbon	N/A	10.6	2.2	2.5	5.4

VOLATILE ORGANICS

Trichloroethene	0.003	<0.001	N/A	N/A	<0.001
Tetrachloroethene	0.003	<0.001	N/A	N/A	<0.001
Carbon Tetrachloride	0.003	<0.001	N/A	N/A	<0.001
Vinyl Chloride	0.0001	0.013	N/A	N/A	0.002

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<0.001	N/A	N/A	<0.001
1,2, - Dichloroethane	0.003	<0.001	N/A	N/A	<0.001
Benzene	0.001	<0.001	N/A	N/A	<0.001
Ethylene Dibromide	0.00002	<0.00002	N/A	N/A	<0.00002
p-Dichlorobenzene	0.075	0.023	N/A	N/A	0.003
1,1 - Dichloroethene	0.007	<0.001	N/A	M/A	<0.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.010	0.425	0.245	<0.010
Sodium	160	6.82	2.63	1.99	4.26
Turbidity	1	25.00	9.00	1.00	15.00
Chloride	250	9.00	5.00	6.00	8.00
Color	15	65.00	35.00	4.00	55.00
Copper	1	<0.020	0.038	<0.020	<0.020
Corrosivity	-0.2 to +0.2	+0.07	<6.61	+0.04	+0.09
Iron	0.3	4.367	1.140	0.334	1.598
Manganese	0.05	0.838	0.031	<0.020	1.268
Odor	3	4.00	2.00	4.00	4.00
pH (field)	6.5 - 8.5	6.57	4.21	7.62	6.96
pH (lab)	6.5 - 8.5	6.70	5.70	7.71	7.04
Sulfate	250	12.00	7.00	7.00	8.00
Total Dissolved Solids	500	442.00	<40.00	126.00	242.00
Zinc	5	0.013	0.269	0.014	1.280
Fecal Coliform	N/A	<1.00	<1.00	<1.00	<1.00
Nitrogen, Total Kjeldahl	N/A	0.531	<0.500	<0.500	0.642
Spec. Conductance (field)	N/A	800.00	340.00	240.00	500.00
Spec. Conductance (lab)	N/A	731.00	49.00	204.00	436.00
Temperature (field)	N/A	26.0	25.0	25.0	25.0
Total Organic Carbon	N/A	2.5	2.3	1.1	1.2
VOLATILE ORGANICS					
Trichloroethene	0.003	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.003	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	0.003	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.0001	<0.001	<0.001	<0.001	<0.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001
1,2, - Dichloroethane	0.003	<0.001	<0.001	<0.001	<0.001
Benzene	0.001	0.002	<0.001	<0.001	<0.001
Ethylene Dibromide	0.00002	<0.00002	<0.00002	<0.00002	<0.00002
p-Dichlorobenzene	0.075	0.022	<0.001	<0.001	0.003
1,1 - Dichloroethene	0.007	<0.001	<0.001	<0.001	<0.001

ANALYSIS REPORT NOT AVALIABLE

FOR APRIL, 1989

GROUNDWATER MONITORING

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.112	0.183	0.046	0.022
Sodium	160	29.3	18.3	17.8	25.5
Turbidity	1	1.45	2.75	1.75	0.47
Chloride	250	11.5	5.81	4.852	15.6
Color	15	5	<5	5	5
Copper	1	0.017	<.0050	0.021	0.009
Corrosivity	-0.2 to +0.2	----	----	----	----
Iron	0.3	3.04	0.17	0.78	3
Manganese	0.05	0.842	<.005	0.082	1.996
Odor	3	<1	<1	<1	<1
pH (field)	6.5 - 8.5	7.31	6.01	7.75	7.74
pH (lab)	6.5 - 8.5	----	----	----	----
Sulfate	250	5.2	0.7	3.3	3
Total Dissolved Solids	500	4.80	24	1576	444
Zinc	5	0.045	0.057	0.48	0.39
Fecal Coliform	N/A	----	----	----	----
Nitrogen, Total Kjeldahl	N/A	0.2	0.6	1.4	1.8
Spec. Conductance (field)	N/A	----	----	----	----
Spec. Conductance (lab)	N/A	----	----	----	----
Temperature (field)	N/A	25.1	23.4	21.4	24.1
Total Organic Carbon	N/A	32	3	9	4

VOLATILE ORGANICS

Trichloroethene	0.003	<.001	<.001	<.001	<.001
Tetrachloroethene	0.003	<.001	<.001	<.001	<.001
Carbon Tetrachloride	0.003	<.001	<.001	<.001	<.001
Vinyl Chloride	0.0001	<.001	<.001	<.001	<.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<.001	<.001	<.001	<.001
1,2, - Dichloroethane	0.003	<.001	<.001	<.001	<.001
Benzene	0.001	.005	.004	<.0005	<.0005
Ethylene Dibromide	0.00002	<.000005	<.000005	<.000005	<.000005
p-Dichlorobenzene	0.075	<.0005	<.0005	<.0005	.0028
1,1 - Dichloroethene	0.007	<.001	<.001	<.001	<.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	.134	.164	.153	<.0130
Sodium	160	12	4	2.3	6
Turbidity	1	0.67	0.59	0.26	0.42
Chloride	250	6.41	3.8	18	10.5
Color	15	<5	<5	5	<5
Copper	1	.161	.0050	0.17	0.18
Corrosivity	-0.2 to +0.2	---	---	---	---
Iron	0.3	1.11	0.38	0.39	2.68
Manganese	0.05	0.53	.021	.0050	2.103
Odor	3	<1	<1	<1	<1
pH (field)	6.5 - 8.5	---	---	---	---
pH (lab)	6.5 - 8.5	---	---	---	---
Sulfate	250	8.3	3.24	10	4.91
Total Dissolved Solids	500	456	25	152.5	380
Zinc	5	.075	0.15	.072	.131
Fecal Coliform	N/A	---	---	---	---
Nitrogen, Total Kjeldahl	N/A	0.2	<0.010	3.3	0.6
Spec. Conductance (field)	N/A	---	---	---	---
Spec. Conductance (lab)	N/A	---	---	---	---
Temperature (field)	N/A	---	---	---	---
Total Organic Carbon	N/A	51	<1	13	37

VOLATILE ORGANICS

Trichloroethene	0.003	<.001	<.001	<.001	<.001
Tetrachloroethene	0.003	<.001	<.001	<.001	<.001
Carbon Tetrachloride	0.003	<.001	<.001	<.001	<.001
Vinyl Chloride	0.0001	<.001	<.001	<.001	<.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<.001	<.001	<.001	<.001
1,2, - Dichloroethane	0.003	<.001	<.001	<.001	<.001
Benzene	0.001	.001	<.0005	<.0005	<.0005
Ethylene Dibromide	0.00002	---	---	---	---
p-Dichlorobenzene	0.075	<.0005	<.0005	<.0005	<.0005
1,1 - Dichloroethene	0.007	<.001	<.001	<.001	<.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.071	0.207	0.046	0.016
Sodium	160	5.46	2.22	2.00	3.88
Turbidity	1	97	4	1	51
Chloride	250	7	3	4	8
Color	15	0	0	1	1
Copper	1	<0.020	0.038	<0.020	<0.020
Corrosivity	-0.2 to +0.2	-0.62	-5.51	-1.40	-1.19
Iron	0.3	6.460	0.066	0.113	3.265
Manganese	0.05	0.05	<0.020	<0.020	1.749
Odor	3	4	1	1	8
pH (field)	6.5 - 8.5	5.87	5.24	6.23	5.59
pH (lab)	6.5 - 8.5	6.85	5.93	7.74	7.02
Sulfate	250	10	9	9	9
Total Dissolved Solids	500	522	<40	126	332
Zinc	5	0.062	0.071	0.013	0.257
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	0.637	<0.500	<0.500	0.679
Spec. Conductance (field)	N/A	960	30	260	660
Spec. Conductance (lab)	N/A	750	37	231	586
Temperature (field)	N/A	26.0	31.0	25.0	25.0
Total Organic Carbon	N/A	2.3	1.3	1.2	1.7
VOLATILE ORGANICS					
Trichloroethene	0.003	<0.001	<0.001	<0.001	<0.001
Tetrachloroethene	0.003	<0.001	<0.001	<0.001	<0.001
Carbon Tetrachloride	0.003	<0.001	<0.001	<0.001	<0.001
Vinyl Chloride	0.0001	0.016	<0.001	<0.001	0.007

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<0.001	<0.001	<0.001	<0.001
1,2, - Dichloroethane	0.003	<0.001	<0.001	<0.001	<0.001
Benzene	0.001	0.002	<0.001	<0.001	<0.001
Ethylene Dibromide	0.00002	<0.00002	<0.00002	<0.00002	<0.00002
p-Dichlorobenzene	0.075	0.021	<0.001	<0.075	0.004
1,1 - Dichloroethene	0.007	<0.001	<0.001	<0.001	<0.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.010	0.253	0.088	0.040
Sodium	160	4.65	2.36	2.00	2.45
Turbidity	1	77	3	3	25
Chloride	250	7	4	5	8
Color	15	1	1	1	1
Copper	1	<0.020	0.023	<0.020	<0.020
Corrosivity	-0.2 to +0.2	+0.12	-4.10	-0.29	+0.15
Iron	0.3	5.257	0.097	0.102	1.242
Manganese	0.05	1.007	<0.020	<0.020	0.892
Odor	3	8	1	1	2
pH (field)	6.5 - 8.5	6.67	6.62	7.38	7.24
r (lab)	6.5 - 8.5	7.23	6.01	7.99	7.26
Sulfate	250	6	5	6	6
Total Dissolved Solids	500	572	42	172	321
Zinc	5	<0.010	0.045	<0.010	0.184
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	0.949	<0.500	<0.500	0.618
Spec. Conductance (field)	N/A	850	20	250	460
Spec. Conductance (lab)	N/A	741	51	227	450
Temperature (field)	N/A	25.0	24.0	24.0	24.5
Total Organic Carbon	N/A	1.8	<1.0	<1.0	1.1

VOLATILE ORGANICS

Trichloroethene	0.003	<0.001			<0.001
Tetrachloroethene	0.003	<0.001			<0.001
c rbon Tetrachloride	0.003	<0.001			<0.001
Vinyl Chloride	0.0001	0.007			<0.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<0.001			<0.001
1,2, - Dichloroethane	0.003	<0.001			<0.001
Benzene	0.001	0.005			0.001
Ethylene Dibromide	0.00002	<0.00002			<0.00002
p-Dichlorobenzene	0.075	0.020			0.002
1,1 - Dichloroethene	0.007	<0.001			<0.001

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.196	0.231	0.096	0.151
Sodium	160	6.50	2.59	2.21	4.89
Turbidity	1	49	4	1	50
Chloride	250	7	4	4	9
Color	15	4	1	1	3
Copper	1	<0.020	<0.020	<0.020	<0.020
Corrosivity	-0.2 to +0.2	+0.01	-5.28	-0.72	+0.03
Iron	0.3	4.890	0.149	<0.040	2.997
Manganese	0.05	1.004	<0.020	<0.020	1.572
Odor	3	8	2	4	8
(field)	6.5 - 8.5	6.54	5.87	6.97	6.86
pH (lab)	6.5 - 8.5	7.15	5.88	7.85	7.30
Sulfate	250	6	5	6	6
Total Dissolved Solids	500	468	<40	122	324
Zinc	5	0.011	0.113	0.010	0.781
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	0.500	<0.500	<0.500	<0.500
Spec. Conductance (field)	N/A	800	20	220	550
Spec. Conductance (lab)	N/A	754	36	216	534
Temperature (field)	N/A	26.0	24.0	24.0	25.0
Total Organic Carbon	N/A	2.0	<1.0	<1.0	1.2

VOLATILE ORGANICS

Trichloroethene	0.003	<0.001			<0.001
Tetrachloroethene	0.003	<0.001			<0.001
Carbon Tetrachloride	0.003	<0.001			<0.001
Vinyl Chloride	0.0001	0.009			0.003

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PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<0.001			<0.001
1,2, - Dichloroethane	0.003	<0.001			<0.001
Benzene	0.001	<0.001			<0.001
Ethylene Dibromide	0.00002	<0.00002			<0.00002
p-Dichlorobenzene	0.075	0.021			0.004
1,1 - Dichloroethene	0.007	<0.001			<0.001

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REPORT OF ANALYSIS Savannah Laboratories

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.050	0.092	<0.050	<0.050
Sodium	160	7.0	3.0	2.6	5.0
Turbidity	1	75	5.4	14	55
Chloride	250	4.0	3.0	3.0	4.0
Color	15	60	-5.0	-5.0	-5.0
Copper	1	<0.025	<0.025	<0.025	<0.025
Corrosivity	-0.2 to +0.2	+0.50	-4.6	-0.020	+0.60
Iron	0.3	11	1.6	5.5	3.9
Manganese	0.05	1.4	0.013	0.053	1.5
Odor	3	12	1	2	4
pH (field)	6.5 - 8.5	7.0	5.7	8.0	7.4
pH (lab)	6.5 - 8.5	---	---	---	---
Sulfate	250	7.5	-5.0	-5.0	6.0
Total Dissolved Solids	500	500	24	48	150
Zinc	5	<0.020	0.11	<0.020	0.29
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	0.61	<0.10	<0.10	0.47
Spec. Conductance (field)	N/A	970	30	170	370
Spec. Conductance (lab)	N/A	---	---	---	---
Temperature (field)Deg.C	N/A	25	23	23	25
Total Organic Carbon	N/A	3.7	1.5	1.4	1.9

VOLATILE ORGANICS

Trichloroethene	0.003	<.001	<.001	<.001	<.001
Tetrachloroethene	0.003	<.001	<.001	<.001	<.001
Carbon Tetrachloride	0.003	<.001	<.001	<.001	<.001
Vinyl Chloride	0.0001	.0066	<.001	<.001	<.001

GROUNDWATER MONITORING
REPORT OF ANALYSIS
PAGE 2

October 1991

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	<.001	<.001	<.001	<.001
1,2, - Dichloroethane	0.003	<.001	<.001	<.001	<.001
Benzene	0.001	.0029	<.001	<.001	<.001
Ethylene Dibromide	0.00002	<.00002	<.00002	<.00002	<.00002
p-Dichlorobenzene	0.075	.052	<.001	<.001	.0046
1,1 - Dichloroethene	0.007	<.001	<.001	<.001	<.001

GROUNDWATER MONITORING July 1991

REPORT OF ANALYSIS Professional Services

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.010	0.109	0.051	0.010
Sodium	160	6.30	2.25	1.94	4.70
Turbidity	1	88	1	3	74
Chloride	250	8	4	5	9
Color	15	<1	<1	5	<1
Copper	1	<0.020	<0.020	<0.020	<0.020
Corrosivity	-0.2 to +0.2	---	---	---	---
Iron	0.3	11.1	0.167	0.651	9.37
Manganese	0.05	1.265	<0.020	<0.020	1.320
Odor	3	2	ND	ND	2
pH (field)	6.5 - 8.5	6.73	5.53	7.42	7.04
pH (lab)	6.5 - 8.5	---	---	---	---
Sulfate	250	10	8	9	8
Total Dissolved Solids	500	547	<40	129	320
Zinc	5	0.011	0.026	0.010	0.728
Fecal Coliform	N/A	---	---	---	---
Nitrogen, Total Kjeldahl	N/A	0.811	<0.5	<0.5	0.631
Spec. Conductance (field)	N/A	893	24	227	567
Spec. Conductance (lab)	N/A	---	---	---	---
Temperature (field)	N/A	---	---	---	---
Total Organic Carbon	N/A	17.8	2.1	2.7	6.9
VOLATILE ORGANICS					
Trichloroethene	0.003	BDL	BDL	BDL	BDL
Tetrachloroethene	0.003	BDL	BDL	BDL	BDL
Carbon Tetrachloride	0.003	BDL	BDL	BDL	BDL
Vinyl Chloride	0.0001	.008	BDL	BDL	BDL

GROUNDWATER MONITORING
REPORT OF ANALYSIS
PAGE 2

July 1991

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	BDL	BDL	BDL
1,2, - Dichloroethane	0.003	BDL	BDL	BDL	BDL
Benzene	0.001	.002	BDL	BDL	BDL
Ethylene Dibromide	0.00002	BDL	BDL	BDL	.002
p-Dichlorobenzene	0.075	---	---	---	---
1,1 - Dichloroethene	0.007	BDL	BDL	BDL	BDL
Bromodichloromethane	---	BDL	BDL	BDL	BDL
Bromoform	---	BDL	BDL	BDL	BDL
Chloroform	---	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	0.075	.020	BDL	BDL	.004
Dibromochloromethane	0.10	BDL	BDL	BDL	BDL

GROUNDWATER MONITORING April 1991

REPORT OF ANALYSIS Professional Services

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	<0.010	0.085	0.027	0.010
Sodium	160	9.66	6.67	6.27	7.55
Turbidity	1	42	1.3	2.2	6.4
Chloride	250	7.14	3.09	4.10	6.64
Color	15	<1	<1	<1	<1
Copper	1	<0.020	<0.020	<0.020	<0.020
Corrosivity	-0.2 to +0.2	---	---	---	---
Iron	0.3	2.895	0.189	0.249	2.036
Manganese	0.05	1.237	<0.020	<0.020	1.025
Odor	3	8	ND	ND	8
pH (field)	6.5 - 8.5	6.85	5.65	7.57	7.12
pH (lab)	6.5 - 8.5	---	---	---	---
Sulfate	250	8	8	8	8
Total Dissolved Solids	500	464	<40	107	218
Zinc	5	0.011	0.039	<0.010	0.177
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	<0.500	<0.500	<0.500	0.905
Spec. Conductance (field)	N/A	727	23	197	356
Spec. Conductance (lab)	N/A	---	---	---	---
Temperature (field)	N/A	---	---	---	---
Total Organic Carbon	N/A	2.1	1.9	1.8	1.5
VOLATILE ORGANICS					
Trichloroethene	0.003	BDL	BDL	BDL	BDL
Tetrachloroethene	0.003	BDL	BDL	BDL	BDL
Carbon Tetrachloride	0.003	BDL	BDL	BDL	BDL
Vinyl Chloride	0.0001	.013	BDL	BDL	.004

GROUNDWATER MONITORING
REPORT OF ANALYSIS
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April 1991

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	BDL	BDL	BDL
1,2, - Dichloroethane	0.003	BDL	BDL	BDL	BDL
Benzene	0.001	.003	BDL	BDL	BDL
Ethylene Dibromide	0.00002	BDL	BDL	BDL	BDL
p-Dichlorobenzene	0.075	---	---	---	---
1,1 - Dichloroethene	0.007	BDL	BDL	BDL	BDL
Bromodichloromethane	---	BDL	BDL	BDL	BDL
Bromoform	---	BDL	BDL	BDL	BDL
Chloroform	---	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	0.075	.019	BDL	BDL	.002
Dibromochloromethane	0.10	BDL	BDL	BDL	BDL

GROUNDWATER MONITORING January 1991

REPORT OF ANALYSIS Professional Services

PARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrogen, Nitrate	10	0.079	0.222	0.057	0.058
Sodium	160	8.75	2.35	2.12	4.20
Turbidity	1	89	1.39	21	23
Chloride	250	7	3	4	10
Color	15	1	1	5	1
Copper	1	<0.020	<0.020	<0.020	<0.020
Corrosivity	-0.2 to +0.2	---	---	---	---
Iron	0.3	8.62	0.109	1.565	2.103
Manganese	0.05	1.305	<0.020	<0.020	1.479
Odor	3	2	ND	ND	1
pH (field)	6.5 - 8.5	6.65	5.70	7.73	6.89
pH (lab)	6.5 - 8.5	---	---	---	---
Sulfate	250	9	9	9	9
Total Dissolved Solids	500	552	<40	97	262
Zinc	5	0.014	0.231	0.015	0.080
Fecal Coliform	N/A	<1	<1	<1	<1
Nitrogen, Total Kjeldahl	N/A	<0.50	<0.50	<0.50	0.614
Spec. Conductance (field)	N/A	741	24	113	448
Spec. Conductance (lab)	N/A	---	---	---	---
Temperature (field)	N/A	---	---	---	---
Total Organic Carbon	N/A	3.3	2.9	2.1	2.3
VOLATILE ORGANICS					
Trichloroethene	0.003	BDL	BDL	BDL	BDL
Tetrachloroethene	0.003	BDL	BDL	BDL	BDL
Carbon Tetrachloride	0.003	BDL	BDL	BDL	BDL
Vinyl Chloride	0.0001	.013	BDL	BDL	.004

GROUNDWATER MONITORING
REPORT OF ANALYSIS
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January 1991

'ARAMETER	MAX. CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
1,1,1, - Trichloroethane	0.2	BDL	BDL	BDL	BDL
1,2, - Dichloroethane	0.003	BDL	BDL	BDL	BDL
Benzene	0.001	.003	BDL	BDL	BDL
Ethylene Dibromide	0.00002	BDL	BDL	BDL	BDL
p-Dichlorobenzene	0.075	---	---	---	---
1,1 - Dichloroethene	0.007	---	---	---	---
Bromodichloromethane	---	BDL	BDL	BDL	BDL
Bromoform	---	BDL	BDL	BDL	BDL
Chloroform	---	BDL	BDL	BDL	BDL
1,4 Dichlorobenzene	0.075	.028	BDL	BDL	.004
Dibromochloromethane	0.10	BDL	BDL	BDL	BDL

GROUNDWATER MONITORING

60 ACRE SITE

REPORT ANALYSIS FOR THE MONTH OF JULY, 1992

PARAMETER	CONTAMINANT LEVEL mg/l	MW-A	MW-B	MW-C	MW-D
Nitrate-N	10	<0.050	<0.050	<0.050	<0.050
Sodium	160	7.1	2.9	2.7	4.8
Turbidity	1	220	0.45	70	60
Chloride	250	6.5	7.5	8.0	5.5
Color	15	50	<5	10	50
Copper	1	<0.025	<0.025	<0.025	<0.025
Corrosivity	-0.2 to +0.2	+1.5	-4.2	-0.04	+0.74
Iron	0.3	12	0.32	3.3	4.3
ıganese	0.05	1.5	<0.010	0.015	1.4
Odor	3	16	1	1	1
PH Units	6.5 - 8.5	8.1	6.3	7.7	7.7
Sulfate	250	<5.0	<5.0	<5.0	<5.0
TDS	500	580	20	150	380
Zinc	5	0.049	0.15	0.089	1.9
Temperature	Degree C	27	26	26	27
TOC	N/A	9.7	3.1	3.3	10
Specific Cond.	N/A	880	31	240	610
Water Level, Ft	to top of casing	109.80	106.42	121.01	*---
Fecal Coliform	N/A	<1	<1	<1	<1
TKN	N/A	0.64	0.17	0.14	0.43

NOTE: * Construction of Supply Well (MW-D) does not allow for water level readings.

GROUNDWATER MONITORING - 60 ACRE SITE
REPORT ANALYSIS FOR THE MONTH OF JULY, 1992

VOLATILE ORGANIC COMPOUNDS (VOC'S)

PARAMETER	CONTAMINENT LEVEL mg/l	MW-A	MW-B
Primary Drinking - Volatiles			
Benzene, ug/l	0.001	.0025	----
Carbon Tetrachloride, ug/l	0.003	<.001	----
1,4-Dichlorobenzene, ug/l	0.075	.030	----
1,2-Dichloroethane, ug/l	0.003	<.001	----
1,1-Dichloroethylene, ug/l	0.007	<.001	----
Tetrachloroethylene, ug/l	0.003	<.001	----
1,1,1-Trichloroethane, ug/l	0.2	<.001	----
Trichloroethylene, ug/l	0.003	<.001	----
inyl Chloride, ug/l	0.001	.0068	----
1,2-Dibromoethane (EDB), ug/l	0.00002	<.00002	----

PARAMETER	CONTAMINENT LEVEL mg/l	MW-C	MW-D
Primary Drinking - Volatiles			
Benzene, ug/l	0.001	----	<.001
Carbon Tetrachloride, ug/l	0.003	----	<.001
1,4-Dichlorobenzene, ug/l	0.075	----	.0064
1,2-Dichloroethane, ug/l	0.003	----	<.001
1,1-Dichloroethylene, ug/l	0.007	----	<.001
Tetrachloroethylene, ug/l	0.003	----	<.001
1,1,1-Trichloroethane, ug/l	0.2	----	<.001
Trichloroethylene, ug/l	0.003	----	<.001
inyl Chloride, ug/l	0.001	----	.0031
1,2-Dibromoethane (EDB), ug/l	0.0002	----	<.00002

NOTE: Sampling and analysis of VOC's for MW-B and MW-C required under DER permit for only January of each year.

GROUNDWATER MONITORING

60 ACRE SITE

REPORT ANALYSIS FOR THE MONTH OF APRIL, 1992

BY: SAVANNAH LABORATORES

PARAMETER	CONTAMINANT LEVEL mg/l	WELL A	WELL B	WELL C	WELL D
Nitrate-N	10	<0.050	0.066	<0.050	<0.050
Sodium	160	6.7	2.8	2.5	4.2
Turbidity	1	180	1.9	0.55	1.3
Chloride	250	8.2	3.7	4.3	8.0
Color	15	50	<5	10	45
Copper	1	<0.025	<0.025	<0.025	<0.025
Corrosivity	-0.2 to +0.2	+0.01	-5.3	-0.16	-0.71
on	0.3	12	0.10	0.43	2.5
Manganese	0.05	1.4	<0.010	<0.010	0.98
Odor	3	32	1	1	1
PH Units	6.5 - 8.5	6.5	5.3	7.6	6.8
Sulfate	250	<5.0	<5.0	<5.0	<5.0
TDS	500	500	22	120	82
Zinc	5	0.021	0.16	0.022	0.35
Temperature C.	N/A	26	24	24	26
TOC	N/A	3.6	1.9	2.0	3.4
Specific Cond.	N/A	910	30	220	150
Water Level		-	-	-	-
Fecal Coliform	N/A	<1	<1	<1	<1
TKN	N/A	0.45	<0.10	<0.10	0.23

GROUNDWATER MONITORING - 60 ACRE SITE
REPORT ANALYSIS FOR THE MONTH OF APRIL, 1992

VOLATILE ORGANIC COMPOUNDS (VOC'S)

PARAMETER	CONTAMINENT LEVEL mg/l	WELL A	WELL B
Primary Drinking - Volatiles Benzene, ug/1	0.001	.020	<.001
Carbon Tetrachloride, ug/1	0.003	<.001	<.001
1,4-Dichlorobenzene, ug/1	0.075	.025	<.001
1,2-Dichloroethane, ug/1	0.003	<.001	<.001
1,1-Dichloroethylene, ug/1	0.007	<.001	<.001
Tetrachloroethylene, ug/1	0.003	<.001	<.001
1,1,1-Trichloroethane, ug/1	0.2	<.001	<.001
Trichloroethylene, ug/1	0.003	<.001	<.001
Vinyl Chloride, ug/1	0.001	.0056	<.001
,2-Dibromoethane (EDB), ug/1	0.00002	<.00002	<.00002

PARAMETER	CONTAMINENT LEVEL mg/l	WELL C	WELL D
Primary Drinking - Volatiles Benzene, ug/1	0.001	<.001	<.001
Carbon Tetrachloride, ug/1	0.003	<.001	<.001
1,4-Dichlorobenzene, ug/1	0.075	<.001	<.001
1,2-Dichloroethane, ug/1	0.003	<.001	<.001
1,1-Dichloroethylene, ug/1	0.007	<.001	<.001
Tetrachloroethylene, ug/1	0.003	<.001	<.001
1,1,1-Trichloroethane, ug/1	0.2	<.001	<.001
Trichloroethylene, ug/1	0.003	<.001	<.001
Vinyl Chloride, ug/1	0.001	<.001	<.001
,2-Dibromoethane (EDB), ug/1	0.0002	<.00002	<.00002

GROUNDWATER MONITORING
60 ACRE SITE
REPORT ANALYSIS FOR ADDITIONAL PARAMETERS
APRIL, 1992

PARAMETER	MCL mg/l	WELL A	WELL B	WELL C	WELL D
Arsenic	0.05	0.015	<0.010	<0.010	<0.010
Barium	1.0	0.12	<0.010	<0.010	0.093
Cadmium	0.010	<0.0050	<0.0050	<0.0050	<0.0050
Chromium	0.05	<0.010	<0.010	<0.010	<0.010
Flouride	4.0	<0.20	<0.20	<0.20	<0.20
Lead	0.05	<0.0050	<0.0050	<0.0050	0.0075
Mercury	0.002	<0.00020	<0.00020	<0.00020	<0.00020
Selenium	0.01	<0.010	<0.010	<0.010	<0.010
Silver	0.05	<0.010	<0.010	<0.010	<0.010
Surfactants	--	0.28	0.23	0.23	0.18
[illegible]al Coliform	--	<1	<1	<1	<1
Gross Alpha	--	1.9+/-5.8	0.1+/-0.6	<0.1	0.2+/ 1.4
Bromoform	--	<5.0	<5.0	<5.0	<5.0
Chloroform	--	<1.0	<1.0	<1.0	<1.0
Dichlorobromo-methane	--	<1.0	<1.0	<1.0	<1.0
Dibromochloro-methane	0.10	<1.0	<1.0	<1.0	<1.0
Endrin	0.0002	<0.10	<0.10	<0.10	<0.10
Gamma-BHC	--	<0.050	<0.050	<0.050	<0.050
Methoxychlor	0.1	<0.50	<0.50	<0.50	<0.50
Toxaphene	0.005	<5.0	<5.0	<5.0	<5.0
2-4-D	0.1	<0.50	<0.50	<0.50	<0.50
[illegible] 4,5-TP Silvex	0.01	<0.50	<0.50	<0.50	1.5

GROUNDWATER MONITORING

60 ACRE SITE

REPORT ANALYSIS FOR THE MONTH OF JANUARY, 1992

BY: SAVANNAH LABORATORIES

PARAMETER	CONTAMINANT LEVEL mg/l	WELL A	WELL-B	WELL C	WELL D
Nitrate-N	10	<0.050	0.083	<0.050	<0.050
Sodium	160	6.9	3.0	2.4	4.2
Turbidity	1	90	0.86	55	45
Chloride	250	8.0	2.9	4.4	7.6
Color	15	50	<5	100	45
Copper	1	<0.025	<0.025	<0.025	0.032
Corrosivity	-0.2 to +0.2	+1.6	-3.8	-0.87	+1.2
Iron	0.3	12	0.24	5.5	2.9
Manganese	0.05	1.4	<0.010	<0.017	1.1
Odor	3	20	2	4	33
PH Units	6.5 - 8.5	8.1	6.5	7.0	8.3
Sulfate	250	13	<5.0	<5.0	<5.0
TDS	500	500	20	100	250
Zinc	5	<0.020	0.17	<0.020	0.72
Temperature C.	N/A	24	22	22	21
TOC	N/A	3.0	1.5	1.6	1.7
Specific Cond.	N/A	810	32	190	450
Water Level		-	-	-	-
Fecal Coliform	N/A	<1	<1	<1	<1
I	N/A	0.54	<0.10	<0.10	0.24

GROUNDWATER MONITORING - 60 ACRE SITE
REPORT ANALYSIS FOR THE MONTH OF JANUARY, 1992

VOLATILE ORGANIC COMPOUNDS (VOC'S)

PARAMETER	CONTAMINENT LEVEL mg/l	WELL A	WELL B
Primary Drinking - Volatiles			
Benzene, ug/1	0.001	.0030	<.0010
Carbon Tetrachloride, ug/1	0.003	<.0010	<.0010
1,4-Dichlorobenzene, ug/1	0.075	.024	<.0010
1,2-Dichloroethane, ug/1	0.003	<.0010	<.0010
1,1-Dichloroethylene, ug/1	0.007	<.0010	<.0010
Tetrachloroethylene, ug/1	0.003	<.0010	<.0010
1,1,1-Trichloroethane, ug/1	0.2	<.0010	<.0010
Trichloroethylene, ug/1	0.003	<.0010	<.0010
inyl Chloride, ug/1	0.001	.014	<.0010
1,2-Dibromoethane (EDB), ug/1	0.00002	<.00002	<.00002

PARAMETER	CONTAMINENT LEVEL mg/l	WELL C	WELL D
Primary Drinking - Volatiles			
Benzene, ug/1	0.001	<.0010	<.0010
Carbon Tetrachloride, ug/1	0.003	<.0010	<.0010
1,4-Dichlorobenzene, ug/1	0.075	<.0010	<.0010
1,2-Dichloroethane, ug/1	0.003	<.0010	<.0010
1,1-Dichloroethylene, ug/1	0.007	<.0010	<.0010
Tetrachloroethylene, ug/1	0.003	<.0010	<.0010
1,1,1-Trichloroethane, ug/1	0.2	<.0010	<.0010
Trichloroethylene, ug/1	0.003	<.0010	<.0010
inyl Chloride, ug/1	0.001	<.0010	<.0010
1,2-Dibromoethane (EDB), ug/1	0.0002	<.00002	<.00002

WELL PERMITS ISSUED REPORT

ATTACHMENT-A

BANNER PAGE

SELECTED PARAMETER DATA

PERMIT ISSUE DATE: 01/01/70 THRU 06/01/92

SECTION: 6 THRU 7 TOWNSHIP: 19 RANGE: 19

COUNTY: NONE SELECTED

HRLB01U

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
307329.01	073210	L ST MARTIN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	06-19-19	DOMESTIC	999998	37					60
307728.01	073609	D WARD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	999998	174					185
309792.01	075672	L ST MARTIN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	06-19-19	DOMESTIC	999998	52					80
310152.01	076031	L STAKES NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	999998	283					290
311626.01	077504	J M VINCENT NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	999998	120					180
313851.01	017349	BELMONT HOMES RT 2, BOX 539 HWY 44 W INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	3.00	06-19-19	DOMESTIC	999998	135					150
317497.01	083372	J LYONS NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	999998	231					268
323675.01	089543	A SPIRES NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	001142	52					73
323881.01	052423	BEL-AIRE HOMES INC 2501 CUB PLACE SEFFNER, FL PHONE:(000) 000-0000 ZIP:33584-	3.00	06-19-19	DOMESTIC	999998	150					155
327354.01	093219	H GODING NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	001342	206					225

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
330285.01	096146	W JOHNSON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	06-19-19	DOMESTIC	001693	42					49
332414.01	144186	ALL STATE HOMES POST OFFICE BOX 280158 TAMPA, FL PHONE:(000) 000-0000 ZIP:33682-0158	4.00	06-19-19	DOMESTIC	001150	135					166
332540.01	098379	R DOLLAR NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	001150	193					216
334123.01	099960	LOTT B NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	001150	211					240
341498.01	107230	DENSMONE,R NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	001393	50					61
349828.01	012496	SCHRADER, HAROLD RT 1, BOX 457C INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	002017	147					154
355269.01	016701	ROEWE, MRS. W. GENERAL DELIVERY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	06-19-19	DOMESTIC	001584	240					240
356277.01	017381	STREICHER, DAVID L. HWY 44 W RT 6, BOX 3102 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001150	102					108
356704.01	017869	SMITH, JOHN 119 W MADISON RD HOLIDAY, FL PHONE:(813) 934-2511 ZIP:33590-	4.00	06-19-19	DOMESTIC	001584						
357823.01	017349	BELMONT HOMES RT 2, BOX 539 HWY 44 W INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001693						

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
360884.01	020865	FITZGERALD, J. G. 2526 39TH AVE N ST PETERSBURG, FL PHONE:(000) 000-0000 ZIP:33724-	4.00	06-19-19	DOMESTIC	001150	210					216
364979.01	010986	BELMONT HOMES SR 44 WEST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001584	225					250
368102.01	021847	BOARD OF COUNTY COMMISSIONERS 110 N APOPKA ROOM 251 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	OBSERVATION OR MONIT	001584	185					200
371763.01	028989	WIPPLE, RICHARD 8258 E FRED COURT FLORAL CITY, FL PHONE:(000) 000-0000 ZIP:32636-	4.00	06-19-19	IRRIGATION	002134	40					42
373208.01	030106	FALKS, JIM CASTLE LAKE PARK INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	002134	40					40
394272.01	046254	NOTTE, JERRY 45 SALISBURY TERRACE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001150	176					178
396246.01	049050	DAIGNAULT, ADRIEN L GENERAL DELIVERY INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	3.00	06-19-19	DOMESTIC	001342						
399983.01	051074	BOYD, TIMOTHY LOT 11 SALISBURY STREET INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001584	182					190
411110.01	058336	FIELDS, LAWRENCE 2992 POSTUM CT INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	002134	105					120
413655.01	059901	FITZGERALD, JAMES 235 SOUTH MANDY TERRACE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	06-19-19	DOMESTIC	001342	323					343

WELL PERMITS ISSUED REPORT

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
418090.01	062463	SIMS, MIKE PO BOX 39 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32651-	4.00	06-19-19	PUBLIC SUPPLY	002017	195					210
423550.01	064160	LEWIS, FRANK C/O TASCHEREAU 650 E CHARLESTON HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	06-19-19	DOMESTIC	001150	57					60
430007.01	067203	H.C.R. CORPORATION 1101 NORTH FLORIDA AVENUE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	IRRIGATION	002134						
437549.01	113407	MCDONALD, HARRY 5361 SHADY ACRES INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	DOMESTIC	001184	42					42
464762.01	131468	HILLIARD, BILL 1650 FISH CREEK POINT CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	06-19-19	PUBLIC SUPPLY	001315	185					205
466175.01	069311	CHALLA, HANIMI 79 HWY 41 N INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	06-19-19	PUBLIC SUPPLY	001150	77					79
482877.01	141536	HELTON, RAYMOND 715 E GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	06-19-19	PUBLIC SUPPLY	001150	163					185
484724.01	142652	FORCE, JOHN 5265 EAST TENSION ST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32652-	4.00	06-19-19	DOMESTIC	001342	105					115
492536.01	124438	ENCORE HOMES PO BOX 1072 FLORAL CITY, FL PHONE:(000) 000-0000 ZIP:32636-	4.00	06-19-19	DOMESTIC	001150	82					152
494207.01	032776	B G RUSAW, INC PO BOX 776 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	06-19-19	DOMESTIC	001584	205					250

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
498510.01	149689	RUSAW B.G. LOT 69 REEHILL ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	06-19-19	DOMESTIC	001584	180					190
501966.01	151592	MILLS DISPOSAL LECANTO 423 W. GULF TO LAKE HWY 490 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	06-19-19	OBSERVATION OR MONIT	009062	15					25
501967.01	151592	MILLS DISPOSAL LECANTO 423 W. GULF TO LAKE HWY 490 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	06-19-19	OBSERVATION OR MONIT	009062	15					25
501968.01	151592	MILLS DISPOSAL LECANTO 423 W. GULF TO LAKE HWY 490 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	06-19-19	OBSERVATION OR MONIT	009062	15					25
501969.01	151592	MILLS DISPOSAL LECANTO 423 W. GULF TO LAKE HWY 490 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	06-19-19	OBSERVATION OR MONIT	009062	15					25
506579.01	153961	SMILLIE, CAROLYN 3836 E EAGLE TRAIL HERNANDO, FL PHONE:(000) 000-0000 ZIP: -	4.00	06-19-19	DOMESTIC	009087	30					30
305332.01	047629	RITZ, MRS ROBERT W LOT 71 WHITE LAKE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	3.00	07-19-19	DOMESTIC	001342	47					73
307270.01	073152	L CANNON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	07-19-19	DOMESTIC	999998	115					115
455614.01	116620	HARLEY INFINGER CONST. 9615 OAKLAWAHA DR. TAMPA, FL PHONE:(000) 000-0000 ZIP:33617-	4.00	07-19-19	DOMESTIC	002405	61					135

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
WELL CONSTRUCTION PERMITTING

WELL PERMITS ISSUED REPORT

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SELECTED PARAMETER DATA

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SECTION: 11 THRU 12 TOWNSHIP: 19 RANGE: 18
COUNTY: NONE SELECTED

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WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
327989.01	093853	W CREECHEEN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	11-19-18	DOMESTIC	999998	80					90
356156.01	017343	MILLS, RUSSELL N. 1704-17TH ST CLEARWATER, FL PHONE:(000) 000-0000 ZIP:33516-	4.00	11-19-18	DOMESTIC	001150	135					140
373701.01	030452	DENSMORE REALITY RT 44 WEST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	11-19-18	DOMESTIC	002134	130					130
414283.01	060260	MARSHALL, REGINA MRS DENHOFF LANE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	11-19-18	DOMESTIC	002017						
428595.01	066584	PIACH, MATTHEW LOT 66, IRIQUOIS DR. HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	11-19-18	DOMESTIC	002017	136					138
432438.01	068435	MC CONNELL, GLEN LOT 162, IRIQUOIS DRIVE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	11-19-18	DOMESTIC	002017	116					126
495448.01	147972	BRENNER, DON 6650 TRELLIS DR HOMOSASSA, FL PHONE:(000) 000-0000 ZIP: -	4.00	11-19-18	DOMESTIC	001546						50
309251.01	075131	A MORTON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	12-19-18	DOMESTIC	999998	228					285
339971.01	105776	DIPPOLITA,M NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	12-19-18	DOMESTIC	999998	49					70
345857.01	111240	GILBERT, JERRY NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	12-19-18	DOMESTIC	001251						

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
346322.01	111646	SKELEY, CHARLES L. NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	12-19-18	DOMESTIC	001100	68					120
359658.01	019976	COPPINS, LLOYD H. GENERAL DELIVERY HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	3.00	12-19-18	DOMESTIC	002017	40					41
370426.01	010592	EURON CORPORATION NAUTILAUS ROAD, LOT 3368-69-70 AVON PARK, FL PHONE:(000) 000-0000 ZIP:33825-	4.00	12-19-18	DOMESTIC	001150	365					367
387654.01	041719	SELLERS, WILLIAM D. LOT 30 WEST HERITAGE DR CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	12-19-18	DOMESTIC	002268	90					100
400137.01	051191	BOWERS, ME LOT 22 WEST HERITAGE DRIVE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	002017	40					45
402731.01	052814	INGALLS, ROBERT LOT 38 APPOMATTOX LANE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	002017	73					80
408183.01	056492	AUSTIN, HOWARD PO BOX 526 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	12-19-18	DOMESTIC	002017	37					39
408809.01	056917	MERCANDINO, RONALD LOT 7 WEST LIBERTY LA HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	002017	48					51
409408.01	057280	CONNELLY, DAN LOT 12 INDEPENDENCE AVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32652-	4.00	12-19-18	DOMESTIC	001342	136					196
411087.01	056492	AUSTIN, HOWARD PO BOX 526 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	12-19-18	DOMESTIC	002017	209					257

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
411479.01	058551	MAWBY, ALAN C LOT 2 MINUTEMAN STREET HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	12-19-18	DOMESTIC	002017						
411959.01	058820	MCCUMSEY, DAVID PO BOX 2925 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	002017	38					40
416553.01	061767	HALLER, BOB LOT 6 MINUTEMAN DRIVE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	12-19-18	DOMESTIC	002017	35					43
423725.01	124268	ACME HOMES 1669 S SUNCOAST BLVD HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32652-	4.00	12-19-18	DOMESTIC	002017						
423940.01	064887	SKINNER, RAY 9918 E BASS INVERNESS, FL PHONE:(000) 000-0000 ZIP:33650-	4.00	12-19-18	DOMESTIC	001546	31					42
427162.01	065839	COLICCHIA, VICENT 4509 S CHIRPER DR LACANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	12-19-18	DOMESTIC	001546	44					47
432146.01	068287	MESKER, KEN LOT 26, MONTICELLO STREET HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	002017	361					390
442085.01	115744	HIX, THOMAS LOT 37 APPOMATIX DR HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	42					51
43001.01	116098	MARAKIS, VICTORIA D LOT 10 APPOTAMATIX DRIVE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	84					98
54731.01	124773	SPEEN, WILLIAM LOT 18 GETTYSBURG DR HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	100					109

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
465998.01	132254	BICKFORD, MEREDITH LOT 71 W. MONTICELLO ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	132					150
475124.01	132254	BICKFORD, MEREDITH LOT 71 W. MONTICELLO ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	REPAIR OR DEEPEN	009015	153					165
504502.01	152906	TOUCHTON, DANIEL 6566 W MINUTEMAN ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	140					143
508725.01	155071	MITCHELL,ROBERT W 6619 W CONSTITUTION LANE HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	001073	88					105
512505.01	161459	MABEL GREENAN 6456 W MONTICELLO ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	12-19-18	DOMESTIC	009015	81					85
512751.01	161715	RONALD HOLLOWAY LOT 29 CARIGE TERRACE HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	12-19-18	DOMESTIC	001073	51					67

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SELECTED PARAMETER DATA

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SECTION: 1 THRU 2 TOWNSHIP: 19 RANGE: 18

COUNTY: NONE SELECTED

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WELL PERMITS ISSUED REPORT

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
307842.01	073723	MRS MARTIN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	01-19-18	DOMESTIC	999998	57					64
309629.01	075509	C BAKKE NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	000285	31					42
310046.01	075925	NO NAME NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	000026	236					240
310839.01	076717	N MILLARD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	215					220
312878.01	078756	H NORTHWICK NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	97					150
312880.01	078758	R WHITEHEAD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	270					275
314031.01	079908	PETER KOOLI NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	276					282
315375.01	081252	D HENSLEY NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	165					178
316292.01	082168	D SLYIEGH NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	221					235
317187.01	083063	W LANGE NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	104					182

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320040.01	085913	C GALASSO NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	245					254
326064.01	091930	H SPELL INC NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	999998	134					142
328282.01	094146	CITRUS COUN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	01-19-18	OBSERVATION OR MONIT	001342	60					64
337175.01	103006	JOHNSON,W NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	001150	80					89
339983.01	105788	PETRY,I NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	001584	175					180
346420.01	111740	HUNT, HAROLD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	01-19-18	DOMESTIC	002017	212					220
350778.01	013265	CLEAVENGER, HOMER STAR RT 1 BOX A BAUER RD INVERNESS, FL PHONE:(904) 344-1815 ZIP:32650-	4.00	01-19-18	DOMESTIC	001150	157					173
351906.01	014077	LOETSCHER, FRED P O BOX 446 RIVERVIEW, FL PHONE:(000) 000-0000 ZIP:33569-	4.00	01-19-18	DOMESTIC	002017	53					90
362102.01	021757	PRATT, DANA RT 1, PARK RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001584	227					230
369249.01	027158	JONES, CAROLYN BAUEN RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001584	360					370

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
372992.01	029938	RUDDY, STEVE GENERAL DELIVERY CRYSTAL RIVER, FL PHONE:(904) 726-9706 ZIP:32629-	4.00	01-19-18	DOMESTIC	001584	188					200
373429.01	010268	VERNON BARFIELD STATE ROAD 486, LOT 49 HERNANDOS, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	01-19-18	DOMESTIC	001342	121					127
377340.01	034253	HEATH, MR. BENJAMIN RT 44 WEST LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001342	116					132
377506.01	034468	PENNINGTON, CHARLES E. 44 E THOMPSON RD INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	DOMESTIC	001584	105					120
377671.01	034831	DANALKY, HANEY RT 2, SR 44 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	DOMESTIC	001342						187
379097.01	035955	SIMS, DAVID STAR RT 1, BOX 162 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	DOMESTIC	001150						
379674.01	035955	SIMS, DAVID STAR RT 1, BOX 162 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	PUBLIC SUPPLY	001150	236					250
381324.01	037501	DAVIDSON, SCOTT MAYFIELD ACRES LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001584	133					170
383461.01	039004	MIJEWSKI, DAVE RT 1, BOX 380-B HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	01-19-18	IRRIGATION	002268						
383482.01	039066	TIDWELL, JAMES LOT 21 KUHNS RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001150	210					215

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
383873.01	039324	RYAN, DONALD LOT 5 HICKEY ST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	PUBLIC SUPPLY	001150	217					220
388346.01	042390	KUSTERER, KEN STAR RT 1 BOX 158-A-1 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	DOMESTIC	001584						
393187.01	043457	COUNTY OF CITRUS 110 N APOPKA AVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	TEST WELL/PIEZOMETER	001150						60
400270.01	051264	PAQUETTE, WAYNE L LOT 2 GRIFFTTH CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	01-19-18	DOMESTIC	002316	183					185
400431.01	037817	CITRUS HILLS INVEST PROPERTIES SR 486 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	01-19-18	IRRIGATION	001150	271					275
401479.01	049887	SAN-MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	01-19-18	DOMESTIC	001150	160					173
403719.01	017908	CYPRESS VILLAGE CONSTRUCTION PO BOX 2001 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	01-19-18	DOMESTIC	001150	145					150
406309.01	055352	ADVENT HOMES 11690 W WALSINGHAM ROAD LARGO, FL PHONE:(000) 000-0000 ZIP:33544-	4.00	01-19-18	DOMESTIC	001584	105					140
407866.01	055352	ADVENT HOMES 11690 W WALSINGHAM ROAD LARGO, FL PHONE:(000) 000-0000 ZIP:33544-	4.00	01-19-18	DOMESTIC	001584	134					145
409440.01	057242	PETERS, ROBERT MR 391 SOUTH THAYER STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001150	105					108

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TO	LINER FROM	TO	WELL DEPTH
411154.01	015072	MARION HMS % FRED WILSON 1129 OCEAN DR CITRUS SPGS, FL PHONE:(000) 000-0000 ZIP:32711-	4.00	01-19-18	DOMESTIC	001315	174					180
411226.01	058414	DRUMMOND, DAN LOT 9 HIGHVIEW AVE LECANTO, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	01-19-18	DOMESTIC	001150	134					137
414048.01	055352	ADVENT HOMES 11690 W WALSINGHAM ROAD LARGO, FL PHONE:(000) 000-0000 ZIP:33544-	4.00	01-19-18	DOMESTIC	001584	230					258
415649.01	055352	ADVENT HOMES 11690 W WALSINGHAM ROAD LARGO, FL PHONE:(000) 000-0000 ZIP:33544-	4.00	01-19-18	DOMESTIC	001584	260					325
416791.01	061877	MAHONEY, MICHAEL LOT 5 BAVER RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	01-19-18	DOMESTIC	002316	237					247
439477.01	063928	DAN DRUMMOND CONST 15199 MORRIS BISHOP LOOP BROOKSVILLE, FL PHONE:(000) 000-0000 ZIP:33573-	4.00	01-19-18	DOMESTIC	001584	160					190
441799.01	016699	MARION HOMES INC. 1129 OCEAN DRIVE CITRUS SPRINGS, FL PHONE:(000) 000-0000 ZIP:32630-	4.00	01-19-18	DOMESTIC	001315	229					255
444518.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	01-19-18	DOMESTIC	001584	189					210
450965.01	121667	RODDY, MICHAEL LOT 10 SHARPLANE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	009015	253					365
453101.01	123469	PLATZ, LESLIE 701 W KUHNS LANE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001150	196					199

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457241.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	01-19-18	OBSERVATION OR MONIT	002778	110					120
457242.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	01-19-18	OBSERVATION OR MONIT	002778	115					125
457243.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	2.00	01-19-18	OBSERVATION OR MONIT	002778	110					120
477866.01	138631	TURNER, HELEN 323 N HENDRICK AVE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	009015	126					134
477867.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	01-19-18	DOMESTIC	009015	210					220
481685.01	140856	SEARS, LEE 6510 E LAHAVEN DRIVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	PUBLIC SUPPLY	009015	345					385
484139.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484140.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484141.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484142.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26

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484143.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484144.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484145.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484146.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484147.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484148.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484149.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	6					26
484150.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484151.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484152.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26

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484153.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484154.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484155.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484156.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484157.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484158.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484159.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484160.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484161.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484162.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
484163.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484164.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484165.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484166.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484167.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
484168.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	OBSERVATION OR MONIT	001150	26					26
493196.01	146944	CITRUS CO LANDFILL 230 GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	4.00	01-19-18	IRRIGATION	001351	120					200
493198.01	146944	CITRUS CO LANDFILL 230 GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	2.00	01-19-18	OBSERVATION OR MONIT	001351	140					160
499106.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	PLUGGED OR ABONDONED	001351	120					150
499107.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	IRRIGATION	001351	454	400	535			685

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500340.01	146944	CITRUS CO LANDFILL 230 GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	2.00	01-19-18	PLUGGED OR ABONDONED	001351	120					125
500484.01	146944	CITRUS CO LANDFILL 230 GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	4.00	01-19-18	PLUGGED OR ABONDONED	001351	518					670
500498.01	126620	CITRUS CO LANDFILL 1300 S LECANTO HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	IRRIGATION	001351	158					180
503542.01	152399	BANGE, PATRICK LOT 8 HICKOY ST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32651-	4.00	01-19-18	DOMESTIC	001342	189					205
516005.01	161619	ELISABETH LAZAR LOT 9 W SHARP LANE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	01-19-18	DOMESTIC	001584	189					210
518557.01	166834	WILLIAM O'BRIEN 3621 COUNTRYSID DRIVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	PUBLIC SUPPLY	001150	201					210
519019.01	166834	WILLIAM O'BRIEN 3621 COUNTRYSID DRIVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	01-19-18	PLUGGED OR ABONDONED	001150	132					132
308012.01	073893	J MCGILL NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	999998	34					55
308182.01	074063	G PFIESTER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	999998	199					211
308306.01	074187	D KILGORE NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	999998	340					340

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312483.01	078361	H BLAKELY NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	999998	105					125
316617.01	082493	CATES NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	999998	304					315
324189.01	090057	B BARGER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001258	90					115
325503.01	091369	P B KRESS NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	999998	52					60
327712.01	093576	C L SHERMAN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001150	88					93
328744.01	094608	J DAGLIA NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001258	69					112
330191.01	096053	MOOD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	001342	84					105
333140.01	098979	R STEVENSON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001150	193					205
333774.01	099611	CRAIG E NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	02-19-18	DOMESTIC	999998	50					56
334155.01	099992	MOOSE LODGE NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001584	275					280

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337787.01	103615	HENDERSON,R NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001584	215					230
343830.01	109433	HAMMER,P NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	999998	84					115
343873.01	109473	GRIMM,H NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001584						
346415.01	111735	JACKSON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001342	428					494
346416.01	111736	BARFIELD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	02-19-18	DOMESTIC	001342	82					105
347326.01	010539	JEANNETTE ZINTNER GOVENERS DRIVE HUNTSVILLE, AL PHONE:(000) 000-0000 ZIP:35800-	4.00	02-19-18	DOMESTIC	002012						
347413.01	010396	O.C. VAUGHN P.O. BOX 152 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001584						
54820.01	016302	VINO JR, JACK JOHN 10 KUHN RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001150	175					175
60290.01	020425	PRESNICK, THPMAS RT 2, BOX 44-A INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	002017	212					218
62025.01	136461	ALLSTATE HOMES POST OFFICE BOX 280158 TAMPA, FL PHONE:(000) 000-0000 ZIP:33682-0158	4.00	02-19-18	DOMESTIC	001150	101					120

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367054.01	136461	ALLSTATE HOMES POST OFFICE BOX 280158 TAMPA, FL PHONE:(000) 000-0000 ZIP:33682-0158	4.00	02-19-18	DOMESTIC	001150	140					160
372053.01	029189	BLACKWOOD, DIANE REDBIRD DR HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	02-19-18	DOMESTIC	002017	110					114
374704.01	031557	PORTER CHURCH STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001342	126					147
375646.01	032488	HICKS, ALBERT OTIS RD BEVERLY HILLS, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001342	84					102
375647.01	032489	HAYNES, LOUISE OTIS RD BEVERLY HILLS, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001342	132					158
377832.01	034929	FORD, SAMMY CITRUS RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001584						
379385.01	036136	COUNSIL, CLIFFORD L. STAR RT 1, BOX 147G-6 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001584	164					200
379746.01	031967	THOMPSON, JERRY RT 2, BOX 171-J HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	02-19-18	DOMESTIC	002017	109					111
379939.01	036544	LAIR, JOE STAR RT 1, BOX 148-J EASY ST INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001584	190					200
380650.01	017349	BELMONT HOMES RT 2, BOX 539 HWY 44 W INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001150	143					148

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
381032.01	037354	DIXON, WILBUR C. PO BOX 325 SR 44 INVERNESS, FL PHONE:(904) 726-4837 ZIP:32650-	4.00	02-19-18	PUBLIC SUPPLY	001150	155					160
382160.01	038079	LONG, CHARLES LOT 5 EASY STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001150	204					210
382217.01	038108	ROWE, DOROTHY STAR RT 1, BOX 153A SCHOOL AVE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001584	147					180
383831.01	039293	RUSSO, JOHN LEONA STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001584						
384434.01	039718	PATE, DAVID STAR RT 1, BOX 147H-1 SCHOOL R INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001150	255					257
384525.01	039793	MOORE, JOHNNY PO BOX 484 ARIPEKA, FL PHONE:(000) 000-0000 ZIP:33502-	4.00	02-19-18	DOMESTIC	002017	56					62
387221.01	041455	TENNYSON, ORVEL LOT 8 HWY 44 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	02-19-18	PUBLIC SUPPLY	001584	440					480
389388.01	042924	WALKER, CHARLES LOT 22 EASY STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	002316	115					145
390824.01	043857	WHITE,JOHN LOT 3 & 4 EASY STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001150	123					140
391805.01	061877	MAHONEY, MICHAEL LOT 5 BAVER RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	02-19-18	DOMESTIC	002316	116					128

WELL PERMITS ISSUED REPORT

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
392900.01	045242	COLLINS, B J 3136 EAST DOVE COURT INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001599	126					155
393056.01	045391	VANSKYOCK, MARGIE PO BOX 2555 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	002316	70					83
394976.01	047075	CITRUS COUNTY BOARD OF REALTORS S R 44 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	PUBLIC SUPPLY	001150	213					215
397896.01	049646	SUNSTYLE HOMES CORP LOT 1-6 WOODLAKE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	001584	50					60
398780.01	050216	CATES, ISAAC MR RT 3 BOX 435S HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	02-19-18	PUBLIC SUPPLY	001150	145					170
400771.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	02-19-18	DOMESTIC	001150	115					120
402787.01	052840	ENZ, JEFF 155 S SCHOOL AVE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	002134	233					240
405014.01	061789	ALL STAR MOBILE HOMES 1055 WEST GULF TO LAKE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	PUBLIC SUPPLY	001184	217					287
409668.01	057445	SAVAGE, GEORGE LOT 61 HWY 44 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	PUBLIC SUPPLY	002017	415					455
410493.01	057960	VINO, JACK JR 180 SOUTH EASY STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001073	131					195

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
410764.01	058116	TOMASKIK, CORT S R 44 LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	4.00	02-19-18	DOMESTIC	001693	114					163
411518.01	058604	TOMASKIK, CURT SR 44 LECANTO, FL PHONE:(000) 000-0000 ZIP:32662-	4.00	02-19-18	PUBLIC SUPPLY	001693	16					99999
411973.01	058834	P & M ASPHALT RT 1 BOX 137L12 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	PUBLIC SUPPLY	001184	116					186
412467.01	059180	ADKINS, CHARLOTTE LOT 13-17 BRADSHAW AVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	02-19-18	DOMESTIC	002024	110					140
412852.01	057445	SAVAGE, GEORGE LOT 61 HWY 44 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	PUBLIC SUPPLY	002017	442					460
414140.01	011294	SHERMAN OAKS 8414 N W 82ST OCALA, FL PHONE:(000) 000-0000 ZIP:32670-	4.00	02-19-18	DOMESTIC	002105	86					105
414876.01	060730	RUNGE, AUGUST J 289 EASY STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001584	255					290
415336.01	060568	GARLAND, JAMES PO BOX 580 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	002017	121					147
424955.01	064731	HELPRIN, STANLEY LOT 1-A SCHOOL ST LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001584	145					160
433602.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	02-19-18	DOMESTIC	001584	160					200

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
434304.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	02-19-18	DOMESTIC	001584	145					190
436222.01	032796	B G RUSAW, INC PO BOX 776 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	02-19-18	DOMESTIC	001584	183					220
447319.01	118739	TRENTA, ROBERT LOT 12 LAKE NINA DR HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	02-19-18	DOMESTIC	001150	55					57
461969.01	130042	LECANTO NURSERY 44, INC 1405 W GULF TO LAKE HWY LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	IRRIGATION	001584	140					170
464858.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	02-19-18	DOMESTIC	009015	126					150
467167.01	132823	WHITE, JOHN LOT 6 ZENA CT LECANTO, FL PHONE:(000) 000-0000 ZIP:32667-	4.00	02-19-18	DOMESTIC	001150	143					171
477958.01	138676	JOHNSON,KENNETH 175 S SCHOOL AVE INVERNESS, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001150	461					505
479377.01	139477	MISE, NELSON 3645 LAKE NINA HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	02-19-18	DOMESTIC	001693	36					38
479635.01	139642	GASTLEY, LARRY 6575 LAKE NINA HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	02-19-18	DOMESTIC	001693	72					75
494906.01	147668	JOHNSON, GREG LOT 320 EASY ST LECANTO, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	02-19-18	DOMESTIC	001150	210					213

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
495064.01	147756	JOYNER JAMES 701 S. FAIRBANKS PATH LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	001150	470					595
500670.01	150912	SNYDER RANDAL LOT 3 CHIPMUNK CT. LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	DOMESTIC	007037	108					120
506088.01	147756	JOYNER JAMES 701 S. FAIRBANKS PATH LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	02-19-18	PLUGGED OR ABONDONED	001150	480					580
519422.01	167799	JOHN CATLET 6099 TROPICAN ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	02-19-18	DOMESTIC	001693						

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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WELL PERMITS ISSUED REPORT

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SELECTED PARAMETER DATA

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SECTION: 21 THRU 21 TOWNSHIP: 18 RANGE: 19
COUNTY: NONE SELECTED

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WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
310127.01	076006	MR JONES NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	167					169
311548.01	077426	J M HYLAND NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	105					144
311599.01	077477	C FINSTAD NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	52					65
314106.01	079983	ROSE NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	139					185
315332.01	081209	BOB MANN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	21-18-19	DOMESTIC	999998	55					65
317697.01	083572	S SPAULDING NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	130					136
319727.01	085600	J PERKS NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	999998	170					185
323831.01	089699	GARRETT NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	001150	89					111
324598.01	090466	C BALACH NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	21-18-19	DOMESTIC	001150	158					185
329599.01	095461	R SANDLER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	TEST WELL/PIEZOMETER	001150	194					278

WELL PERMITS ISSUED REPORT

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
330005.01	095867	RON SADLER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	001150	272					293
334740.01	017349	BELMONT HOMES RT 2, BOX 539 HWY 44 W INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	21-18-19	DOMESTIC	001584	160					165
338929.01	104743	COOPER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	001150	232					260
342610.01	108285	GEMALO,J NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	21-18-19	DOMESTIC	001142						
355268.01	016700	JONES, RONNIE STAR RT 1, BOX 682 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001584						
376733.01	033504	MAPES, ROGER HWY 200 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001184						106
381207.01	037465	CHUELBIS, RONALD LOT 94 PAGE DR HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	141					150
382036.01	038019	SCHLVETER, HENRY LOT 91 PAGE DRIVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	115					122
383804.01	039277	MURPHY, ELISIA PO BOX 648 HERCALA RD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	002017	133					135
392499.01	044994	WHITTEN, ROBERT LOT 35 CAROL WOOD DRIVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	121					125

WELL PERMITS ISSUED REPORT

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
392858.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	21-18-19	DOMESTIC	001150	155					160
393727.01	045752	WANDERLICK, JOHN 1ST CT & EVELYN HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	110					113
397964.01	049684	LAVIOLITTE, NANCY E LOT 29 CAROLWOOD DR HERNANDO, FL PHONE:(305) 644-2752 ZIP:32642-	4.00	21-18-19	DOMESTIC	002268	63					90
400324.01	037817	CITRUS HILLS INVEST PROPERTIES SR 486 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	TEST WELL/PIEZOMETER	001150						80
400325.01	037817	CITRUS HILLS INVEST PROPERTIES SR 486 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	TEST WELL/PIEZOMETER	001150						
400326.01	037817	CITRUS HILLS INVEST PROPERTIES SR 486 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	TEST WELL/PIEZOMETER	001150						
401053.01	051710	CLEMENTS, MURRAY J LOT 95 PAGE DRIVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	107					110
403436.01	053309	TODD, BYRON PO BOX 516 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	179					205
403603.01	053388	SPIERING, ALBERT LOT 126 EVELYN DRIVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	21-18-19	DOMESTIC	002017	84					100
410496.01	057963	HENSELER, JOHN 665 OSCEOLA BEVERLY HILLS, FL PHONE:(000) 000-0000 ZIP:32665-	4.00	21-18-19	DOMESTIC	001315	163					170

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WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
411019.01	058274	COZZA, FRANK 5TH STREET INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	21-18-19	DOMESTIC	002134						
426711.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001584						
427669.01	066193	WARNER, JOE 3100 CARROLLWOOD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001693	102					106
435069.01	046700	CUMBERLAND FARMS RT 2 BOX 47 HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	2.00	21-18-19	OBSERVATION OR MONIT	002730	1					8
435070.01	046700	CUMBERLAND FARMS RT 2 BOX 47 HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	2.00	21-18-19	OBSERVATION OR MONIT	002730	1					8
435071.01	046700	CUMBERLAND FARMS RT 2 BOX 47 HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	2.00	21-18-19	OBSERVATION OR MONIT	002730	1					8
435072.01	046700	CUMBERLAND FARMS RT 2 BOX 47 HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	2.00	21-18-19	OBSERVATION OR MONIT	002730	1					8
443803.01	116365	VANGEMERT, C 1097 E GETTY LANE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001150	137					143
444598.01	116739	HERNANDO CHEVRON P O BOX 1256 OCALA, FL PHONE:(000) 000-0000 ZIP:32678-	2.00	21-18-19	OBSERVATION OR MONIT	002406	35					45
444599.01	116739	HERNANDO CHEVRON P O BOX 1256 OCALA, FL PHONE:(000) 000-0000 ZIP:32678-	2.00	21-18-19	OBSERVATION OR MONIT	002406	35					45

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
444601.01	116739	HERNANDO CHEVRON P O BOX 1256 OCALA, FL PHONE:(000) 000-0000 ZIP:32678-	2.00	21-18-19	OBSERVATION OR MONIT	002406	35					45
446154.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	009015	186					195
464672.01	131640	ZIEGLER, PO BOX 438 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	21-18-19	DOMESTIC	001073	117					135
487406.01	143998	NIELSEN,BOB 62 N PIZARRO LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	21-18-19	IRRIGATION	009015	95					111
491818.01	146252	MANSON,JOHN 5810 W EVERLYN ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	001693	138					142
494687.01	147562	BAUDER, JOHN 1881 EAST EVELYN ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	21-18-19	DOMESTIC	009042	84					93
524379.01	172918	CECILIA VAN AUKEN LOT 112 N BONNIE PT HERNANDO, FL PHONE:(407) 426-8346 ZIP:32642-	4.00	21-18-19	DOMESTIC	007038						

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
WELL CONSTRUCTION PERMITTING

WELL PERMITS ISSUED REPORT

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SELECTED PARAMETER DATA

PERMIT ISSUE DATE: 01/01/70 THRU 06/01/92
SECTION: 35 THRU 36 TOWNSHIP: 18 RANGE: 18
COUNTY: NONE SELECTED

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WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
129377.01	067033	D.A.B. DESIGN BUILDERS 852 HWY 41 S. INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	35-18-18	DOMESTIC	002017						
305646.01	048090	JOHNS, JAMES C GENERAL DELIVERY LECANTO, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	35-18-18	DOMESTIC	000026	159					175
309890.01	075770	NO NAME NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	LIVESTOCK	999998	121					135
315782.01	081659	C N GUINN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	DOMESTIC	999998	300					480
316567.01	082443	R SAMS NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	DOMESTIC	999998	215					240
319857.01	085730	H DOWNING NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	DOMESTIC	999998	50					99999
333465.01	099304	REED NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	35-18-18	DOMESTIC	001584	140					160
349657.01	012354	REED, ALEXIL RT 1 BOX 152H INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	35-18-18	DOMESTIC	001584	180					180
360456.01	020566	REED, MARK L. PO BOX 172 HOMOSASSA SPGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	35-18-18	DOMESTIC	001584						
387596.01	041679	DEMIJOHN, FRANK LOT 20 JIMS PLACE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001150	45					49

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394081.01	045976	LINVILLE, EARL LOT 2 BAUER ROAD CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	268					280
394788.01	046774	JOHNS, J CLAYTON STAR RT 1 BOX 152C INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	35-18-18	DOMESTIC	000026						
401155.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	35-18-18	DOMESTIC	001150	171					178
405840.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	001150	112					119
406267.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	348					353
406299.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	162					182
407033.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	35-18-18	DOMESTIC	001150	356					360
407035.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	35-18-18	DOMESTIC	001150	470					500
407036.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	35-18-18	DOMESTIC	001150	146					160
409959.01	057567	MCCORMICK, M H RT 3 BOX 155 HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	35-18-18	DOMESTIC	002017	36					45

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410497.01	057964	SPECIAL EDITION HOMES PO BOX 2398 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001315	128					160
410836.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	35-18-18	DOMESTIC	001150	144					160
411439.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	95					106
412438.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	211					228
412439.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	112					156
412440.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	100					104
412914.01	059449	DRUMMOND, DAN LOT 28 REDDING STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	35-18-18	DOMESTIC	001150	205					228
413646.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	112					155
413647.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	35-18-18	DOMESTIC	001150	432					542
414311.01	010495	LYTTON & TOLLEY, INC. P.O. BOX 310, U.S. HIGHWAY 44 W. INVERNESS, FL PHONE:(904) 726-0973 ZIP:32651-	4.00	35-18-18	DOMESTIC	001150	116					159

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414690.01	022059	SOUTHERN COMFORT HOMES PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	148					165
414691.01	022059	SOUTHERN COMFORT HOMES PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001150	110					113
415150.01	059677	JOHN FLYNN BLDR EAST HARTFORD STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	95					97
415734.01	052797	GULF TO LAKES CONSTRUCTION 6208 W CORPORATE DRIVE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001150						
417842.01	062404	SPECIAL EDITIONS P O BOX 2398 CRYSTAL RIVER, FL PHONE:(904) 746-4026 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584						
419678.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	145					160
420206.01	063303	OSBORN, BILL PO BOX 1201 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584						
421782.01	052797	GULF TO LAKES CONSTRUCTION 6208 W CORPORATE DRIVE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	360					400
423282.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	002017	115					115
423651.01	064621	PRISER LOT 12 W MASS AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	270					280

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423652.01	064622	ALBINO LOT 34 W MASS AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	136					160
424065.01	062566	SAN MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	126					140
427082.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	156					170
428391.01	066739	WETEUKAUP, WILLIAM LOT 14, MC GOWAN BLVD CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	002017	41					52
429377.01	067033	D.A.B. DESIGN BUILDERS 852 HWY 41 S. INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	35-18-18	DOMESTIC	002017	30					43
429746.01	055441	LEN KELLY HOMES 2400 ESSEX AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	143					180
431423.01	067834	LEVESQUE, HENRY LOT 11, W. TOCOMA LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	35-18-18	DOMESTIC	001584	260					280
432378.01	043950	TASHERUA, ROMEO PO BOX 565 HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	291					292
436760.01	049887	SAN-MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	240					280
436761.01	049887	SAN-MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	147					160

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439795.01	114672	LINDQUIST, KEN LOT 5 WEST OLYMPIA STREET OCALA, FL PHONE:(000) 000-0000 ZIP:32670-	4.00	35-18-18	DOMESTIC	001315	105					150
449955.01	055338	CLARK, DOLORES LOT 13 WEST OLYMPIA STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	129					163
453450.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	009015	84					104
456739.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001584	142					172
459984.01	128678	ZACARDI,MR 1299 UNION ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	370					400
467699.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	009015	232					239
470520.01	062566	SAN MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	001584	126					140
472538.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001584	125					145
475005.01	136960	COULLING GLENDON LOT 24 VENTURI DR. CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	35-18-18	DOMESTIC	009015	111					158
476337.01	133147	BARFIELD LARRY LOT 192 HARVERD INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	35-18-18	DOMESTIC	001150	324					340

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476985.01	138120	SCOTT, HOWARD LOT 21 OLYMPIA ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	413					423
478005.01	138708	BURLEIGH, RICK LOT 13 TACOMA ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	548					640
478976.01	139237	MITCH UNDERWOOD CONST PO BOX 2493 OCALA, FL PHONE:(000) 000-0000 ZIP:32678-	4.00	35-18-18	DOMESTIC	001150	104					107
479417.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	009015	120					130
481742.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001584	120					140
482328.01	141221	JACKSON, JAMES LOT 22 STAFFORD ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001584	220					230
487685.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	009015	121					146
489934.01	145266	JACKSON,JAMES LOT 23 W STAFFORD ST BEVERLY HILLS, FL PHONE:(000) 000-0000 ZIP:32665-	4.00	35-18-18	DOMESTIC	001584	126					165
501752.01	151519	UNDERWOOD, MITCH PO BOX 2493 OCALA, FL PHONE:(000) 000-0000 ZIP:32678-	4.00	35-18-18	DOMESTIC	001150	231					242
501756.01	151520	SPINOSA LOT 19 BLOCK 63 PIERSON ST CITRUS HILLS, FL PHONE:(000) 000-0000 ZIP:32678-	4.00	35-18-18	DOMESTIC	001150	194					250

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503600.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	009015	296					325
506439.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	009015	161					171
507643.01	154498	FORD, PAUL R LOT 18 UNION ST LECANTO, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	DOMESTIC	009015	452					550
509488.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001584	174					190
512572.01	022059	SOUTHERN COMFORT HOMES PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	35-18-18	DOMESTIC	001584	105					145
512870.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	35-18-18	DOMESTIC	009015	232					240
514052.01	162896	WILLIAM GIGURE LOT 4 OLYMPIA ST HERNANDO, FL PHONE:(000) 000-0000 ZIP: -	4.00	35-18-18	DOMESTIC	001584	119					140
517379.01	165649	RUANE CONSTRUCTION LOT 77 MANILA LN HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	35-18-18	DOMESTIC	001150	105					160
520046.01	168580	WALLACE HAMMERBESK 570 N COUNTRY CLUB DR CRYSTAL RIVER, FL PHONE:(904) 795-0325 ZIP:32629-	4.00	35-18-18	DOMESTIC	009015	93					105
521192.01	152418	SWEETWATER HOMES 8016 S SUNCOAST BLVD HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	35-18-18	DOMESTIC	009015	61					75

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524968.01	173498	JERRY GUDIN P O BOX 1878 CRYSTAL RIVER, FL PHONE:(904) 563-5334 ZIP:32623-	4.00	35-18-18	DOMESTIC	001584						
312833.01	078711	J BUFFINGTO NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	36-18-18	PUBLIC SUPPLY	999998	147					186
313782.01	079659	C GALASON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	36-18-18	DOMESTIC	999998	101					178
318356.01	084229	D WARREN NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	36-18-18	DOMESTIC	999998	141					158
319278.01	085151	J BAKER NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	36-18-18	DOMESTIC	999998	105					180
320852.01	013906	AVANZINI HOMES CORP 1610 W MAIN ST INVERNESS, FL PHONE:(904) 795-5383 ZIP:32650-	3.00	36-18-18	DOMESTIC	999998	72					75
321128.01	087001	J RHODEY NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	36-18-18	DOMESTIC	999998	36					39
329116.01	094979	WATSON NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	36-18-18	DOMESTIC	001584	180					200
332529.01	098368	R NICODEMUS NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	4.00	36-18-18	DOMESTIC	999998	62					100
343923.01	109509	CAMPBELL,B NO ADDRESS NO CITY, FL PHONE:(000) 000-0000 ZIP: -	3.00	36-18-18	DOMESTIC	001877						

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351066.01	010085	RUSAW CONSTRUCTION COMPANY ROUTE 2, BOX 132-C6 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	240					240
351133.01	007480	F. AVANZINI LUMBER COMPANY, INC. 1610 WEST MAIN STREET INVERNESS, FL PHONE:(904) 726-1864 ZIP:32650-	4.00	36-18-18	DOMESTIC	001584						
354775.01	016257	PRICE, DONALD BOX 315 LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	002096						
357511.01	018385	SMITH, JOHN 33 S HARRISON ST BEVERLY HILLS, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	001150						
361021.01	010085	RUSAW CONSTRUCTION COMPANY ROUTE 2, BOX 132-C6 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	160					160
372758.01	029755	TURNER, HELEN & RHOADES, WARREN BAUER RD LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	002017	97					137
393487.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	448					485
393488.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	484					560
397247.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	001150	232					236
397895.01	043266	B RUSAW PO BOX 776 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	120					140

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398742.01	050195	RUSSO, JOHN LOT 25 CHERRYWOOD LANE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	145					198
400851.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001150	115					120
400852.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001150	235					250
400906.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150						
400907.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	355					359
402343.01	052533	TASHEREAV, ROMEO LOT 25 CUMBERLAND STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	168					188
402400.01	052577	DUNCAN, MICHAEL RT 1 BOX 443 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	23					30
402610.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001150	268					310
403843.01	053604	MACHLEIT, BILL 2200 FRESNO STREET INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	36-18-18	DOMESTIC	001315						
404103.01	053695	MACHLEIT, WILLIAM LOT 45 FRESNO AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	230					245

WELL PERMITS ISSUED REPORT

COUNTY: CITRUS ISSUE DATE RANGE: 01/01/70 THRU 06/01/92

WCP NUMBER	OWNER ID	OWNER INFORMATION	WELL DIAMETER	LOCATION S-T-R	USE CD DESCRIPTION	CONTRACTOR ID	PRIMARY DEPTH	TELESCOPE FROM	TELESCOPE TO	LINER FROM	LINER TO	WELL DEPTH
404563.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	36-18-18	DOMESTIC	001150	186					195
405642.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	345					350
405643.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	315					319
405797.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	001150	318					325
406089.01	054041	FAIRWAY CUSTOM HOMES 116 COMMERCIAL WAY SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	36-18-18	DOMESTIC	001150	118					140
407037.01	010160	JOHN FLYNN CONSTRUCTION P.O. BOX 2286 HOMOSASSA SPRINGS, FL PHONE:(000) 000-0000 ZIP:32647-	4.00	36-18-18	DOMESTIC	001150	220					230
407742.01	056234	THOMAS, BEN L LOT 2 FOX LANE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	69					70
407890.01	053310	A C & R CONSTRUCTION 851 HWY 41 INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	36-18-18	DOMESTIC	001150	140					166
408151.01	010495	LYTTON & TOLLEY, INC. P.O. BOX 310, U.S. HIGHWAY 44 W. INVERNESS, FL PHONE:(904) 726-0973 ZIP:32651-	4.00	36-18-18	DOMESTIC	001150	250					260
408154.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	225					250

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408264.01	054951	SANMAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001150	300					306
408807.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	332					340
408887.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001150	230					240
409734.01	057479	ZANETTI, JOHN LOT 11 PEARSON STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	001150	132					145
411509.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	001150	149					160
414320.01	051721	SLACK, C R PO BOX 1028 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	25					30
414379.01	054951	SANMAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001150						
414452.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	001150						
414689.01	022059	SOUTHERN COMFORT HOMES PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001150	108					130
415452.01	010495	LYTTON & TOLLEY, INC. P.O. BOX 310, U.S. HIGHWAY 44 W. INVERNESS, FL PHONE:(904) 726-0973 ZIP:32651-	4.00	36-18-18	DOMESTIC	001150	150					155

WELL PERMITS ISSUED REPORT

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417878.01	062211	STORMS, LINDA PO BOX 1154 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	310					335
418265.01	062566	SAN MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	245					260
418349.01	020099	TAB DEEB CONSTRUCTION CO INC 390 EAST HARTFORD STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001584	233					255
420891.01	062566	SAN MAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	290					320
421497.01	063928	DAN DRUMMOND CONST 15199 MORRIS BISHOP LOOP BROOKSVILLE, FL PHONE:(000) 000-0000 ZIP:33573-	4.00	36-18-18	DOMESTIC	001584						
421683.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150						
421684.01	049369	FAIRWAY HOMES 250 EAST HARTFORD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150						
422566.01	063828	PRICE, RICHARD LOT 349 VENTURI DR CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002268	72					90
422863.01	064546	N ROBERTS LOT 27 GRANDVIEW HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001584	235					350
424952.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	228					250

WELL PERMITS ISSUED REPORT

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425899.01	063928	DAN DRUMMOND CONST 15199 MORRIS BISHOP LOOP BROOKSVILLE, FL PHONE:(000) 000-0000 ZIP:33573-	4.00	36-18-18	DOMESTIC	002134	252					400
425911.01	065546	REED,WALTER LOTS 8,9&10 W.ORANGE LA. CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	61					65
426413.01	010495	LYTTON & TOLLEY, INC. P.O. BOX 310, U.S. HIGHWAY 44 W. INVERNESS, FL PHONE:(904) 726-0973 ZIP:32651-	4.00	36-18-18	DOMESTIC	001150	140					145
426432.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001315	172					183
426433.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001315	174					186
428497.01	015541	BAZEMORE, BILL PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001315	93					110
428609.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	247					255
429741.01	028871	DIDONNA, VINCENT 432 COQUINA DR CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	121					127
430557.01	067449	ART JOHNSON BUILDER 1498 ALTO-VERDE TERR INVERNESS, FL PHONE:(000) 000-0000 ZIP:32650-	4.00	36-18-18	DOMESTIC	001150	285					327
430944.01	067630	RUSSELL, MIKE LOT 43, FRESNO STREET LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	001342	193					221

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431494.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	002134	84					110
431555.01	059677	JOHN FLYNN BLDR EAST HARTFORD STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	301					305
432103.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	002134	218					240
433319.01	043221	GULF TO LAKES CORP PO BOX 1379 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001584	179					220
436881.01	063928	DAN DRUMMOND CONST 15199 MORRIS BISHOP LOOP BROOKSVILLE, FL PHONE:(000) 000-0000 ZIP:33573-	4.00	36-18-18	DOMESTIC	001584	240					320
437491.01	113573	AVOLA, JOSEPH 80 N INDIANAPOLIS HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	002225						140
437685.01	113573	AVOLA, JOSEPH 80 N INDIANAPOLIS HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	305					308
438669.01	114124	DIDONNA, VINCENT LOT 11 N FLOURENE PT CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	002017	71					75
438975.01	022059	SOUTHERN COMFORT HOMES PO BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	296					320
441878.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	001584	345					360

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442589.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	252					270
442696.01	115976	BARTOLUCCI, VINCENT LOT 19 OLYMPIA STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	237					240
445436.01	117283	NEITZEL, JAMES P LOT 30 FRESNO STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	138					145
446283.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	180					220
452527.01	122994	MORSE, EDWARD 318 E CUMBERLAND AVE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	184					190
462619.01	130516	MONGIORI,ROBERT 243 INDANALPOLIS AVE LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	001342	289					301
465059.01	131820	BARRY, JOSEPH LOT 13 W. NATIONAL ST HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	133					143
465265.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	255					290
467260.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	145					185
467777.01	115976	BARTOLUCCI, VINCENT LOT 19 OLYMPIA STREET HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	226					240

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471475.01	135183	REED, WALTER 6466 W ORANGE LANE CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	009015	63					65
473473.01	136113	PINECREST BUILDING CORP 58 JAMAICA ST HOMOSASSA, FL PHONE:(000) 000-0000 ZIP:32646-	4.00	36-18-18	DOMESTIC	001150	300					310
475966.01	137518	REED,WALTER LOTS 3 & 4 ORANGE ST CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	009015	99					104
478611.01	054951	SANMAR HOMES PO BOX 2528 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32629-	4.00	36-18-18	DOMESTIC	001150	190					195
479418.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	009015	203					240
480407.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	218					240
485759.01	143180	DAVIS, RONLAD 405 N HEDRICK LECANTO, FL PHONE:(000) 000-0000 ZIP:32661-	4.00	36-18-18	DOMESTIC	009015	216					240
486559.01	138301	DEEB COMMERCIAL 6709 RIDGE RD PORT RICHEY, FL PHONE:(000) 000-0000 ZIP:34668-	4.00	36-18-18	DOMESTIC	009015	225					280
491262.01	145960	HANN, ROBERT 371 N GRANDVIEW TERRACE HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	159					179
500187.01	010456	FAIRWAY HOME BUILDERS 1302 EAST TIMBERLANE PLANT CITY, FL PHONE:(000) 000-0000 ZIP:33566-	4.00	36-18-18	DOMESTIC	009015	142					155

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500948.01	151077	SMITH, ROGER LOT 32 FRESNO HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001584	168					185
501562.01	010904	SOUTHERN COMFORT HOMES P.O. BOX 298 MCINTOSH, FL PHONE:(000) 000-0000 ZIP:32664-	4.00	36-18-18	DOMESTIC	001584	300					320
501878.01	136502	DEEP SOUTH HOMES 1331 NOAH AVE SPRING HILL, FL PHONE:(000) 000-0000 ZIP:34608-	4.00	36-18-18	DOMESTIC	001150	310					340
504391.01	065393	ANDRES HOMES 2037 STONEVILLE DR. SPRING HILL, FL PHONE:(000) 000-0000 ZIP:33526-	4.00	36-18-18	DOMESTIC	001150	259					265
505165.01	037475	UNITED BUILDERS PO BOX 1922 MERRITT ISLAND, FL PHONE:(000) 000-0000 ZIP:32952-	4.00	36-18-18	DOMESTIC	001150	29					35
519687.01	166792	CITRUS HILLS CONSTRUCTION 2450 N CITRUS HILLS BLVD HERNANDO, FL PHONE:(000) 000-0000 ZIP:32642-	4.00	36-18-18	DOMESTIC	001150	228					240
520851.01	169226	BERNARD LARIE P O BOX 1766 HERNANDO, FL PHONE:(904) 344-2773 ZIP:32642-	4.00	36-18-18	DOMESTIC	009015	230					235
521215.01	169528	C SLACK PO BOX 1028 CRYSTAL RIVER, FL PHONE:(000) 000-0000 ZIP:32696-	4.00	36-18-18	DOMESTIC	001073						
523326.01	171655	ERNEST FETTERMAN 6844 W STOREY GAP CT CRYSTAL RIVER, FL PHONE:(904) 563-0464 ZIP:32624-	4.00	36-18-18	IRRIGATION	009015	36					45

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 32661-0440
(904) 746-2694 • FAX (904) 746-9874

Reply To:

M E M O R A N D U M

DATE: May 21, 1992

TO: Tom Dick, Director, Aquatics & Solid Waste Management

FROM: Larry J. Brock, Engineering Technician IV LJB

SUBJECT: GAS MIGRATION INVESTICATION AT THE 60 ACRE LANDFILL SITE

Pursuant to your request, I have conducted the gas migration investigation at the 60 Acre Landfill Site.

Please find attached a narrative and the investigation results.

If I can be of future assistance, please advise.

LJB:bp

Attachments (2)

cc: Jeff Ketteler, P.E., Director; Engineering Division
Chris M. Karr, Chief, Permits & Compliance
Thomas E. Fears, P.E., Project Management

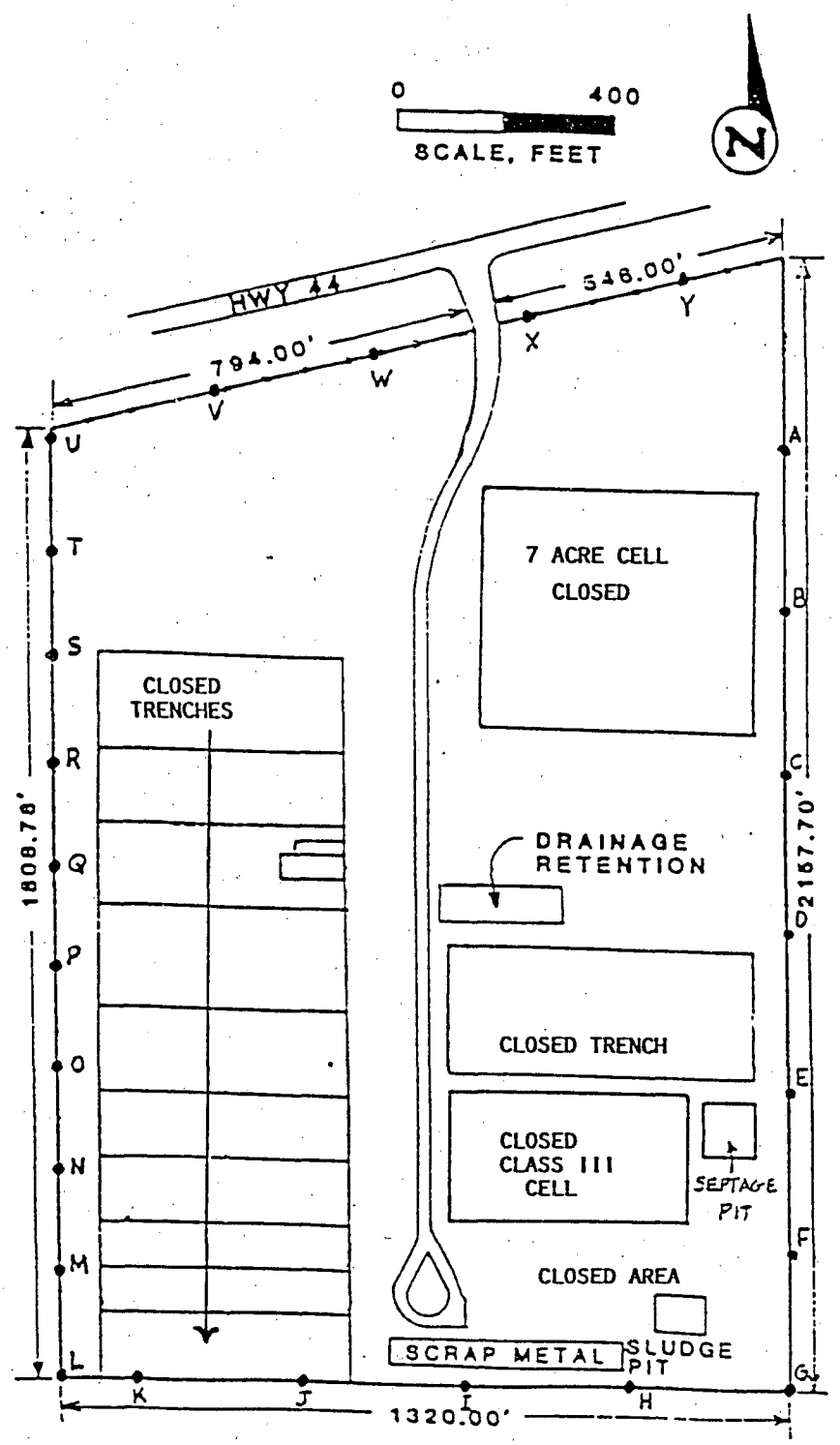
RECEIVED
MAY 22 1992

GAS MIGRATION INVESTIGATION

Tests were conducted on May 20 & 21, 1992 at the Citrus County Central Landfill (60 Acre Site) to determine the extent and concentration of methane gas migration. The tests were conducted at 300 +/- foot intervals along the perimeter of the property, except for the west boundary which was tested at 180 +/- foot intervals due to the proximity of numerous inactive trenches.

A one (1) inch hole at least three feet deep was plugged from the ground at each of the test points. A cover was positioned over each hole and allowed to stand undisturbed for a minimum of fifteen minutes. Readings were taken at each test point, as indicated on the attached sheet, with a Gastech Model #GP-204 combustible gas indicator. The maximum levels determined at each test point, as indicated by the meter, are noted in **% LEL**. Also, a comparison of change since the October 4, 1989 investigation has been provided.

TEST POINT	READING (% LEL)	% CHANGE
A	100	+ 100
B	80	+ 80
C	100	+ 100
D	0	- 60
E	85	+ 85
F	10	+ 10
G	0	0
H	0	0
I	0	0
J	0	0
K	0	- 100
L	0	0
M	0	- 100
N	0	0
O	85	+ 75
P	50	+ 47
Q	75	- 25
R	60	- 40
S	0	- 5
T	0	0
U	0	0
V	0	0
W	0	0
X	0	0
Y	0	0



LOCATION OF GAS MIGRATION TEST HOLES

CLOSED 60 ACRE SITE--CITRUS COUNTY CENTRAL LANDFILL

5/92

Proof of Publication

from the
CITRUS COUNTY CHRONICLE
Crystal River, Citrus County, Florida

PUBLISHED DAILY

STATE OF FLORIDA
COUNTY OF CITRUS

Before the undersigned authority personally appeared Gerard Mulligan who on oath says that he is Publisher of the Citrus County Chronicle, a newspaper published daily at Crystal River, in Citrus County, Florida, that the attached copy of advertisement being a public notice in the matter of the Notice of Application Long-Term Care & Maintenance of the Citrus County Landfill Court, was published in said newspaper in the issues of May 15, 1992

Affiant further says that the Citrus County Chronicle is a newspaper published at Crystal River in said Citrus County, Florida, and that the said newspaper has heretofore been continously published in Citrus County, Florida, each week and has been entered as second class mail matter at the post office in Inverness in said Citrus County, Florida, for a period of one year next preceeding the first publication of the attached copy of advertisement; and affiant further says that he/she neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Gerard Mulligan

The foregoing instrument was acknowledged before me this 15th day of May 19 92

by Gerard Mulligan

who is personally known to me and who did take an oath.

Jeanette A. Schmidt

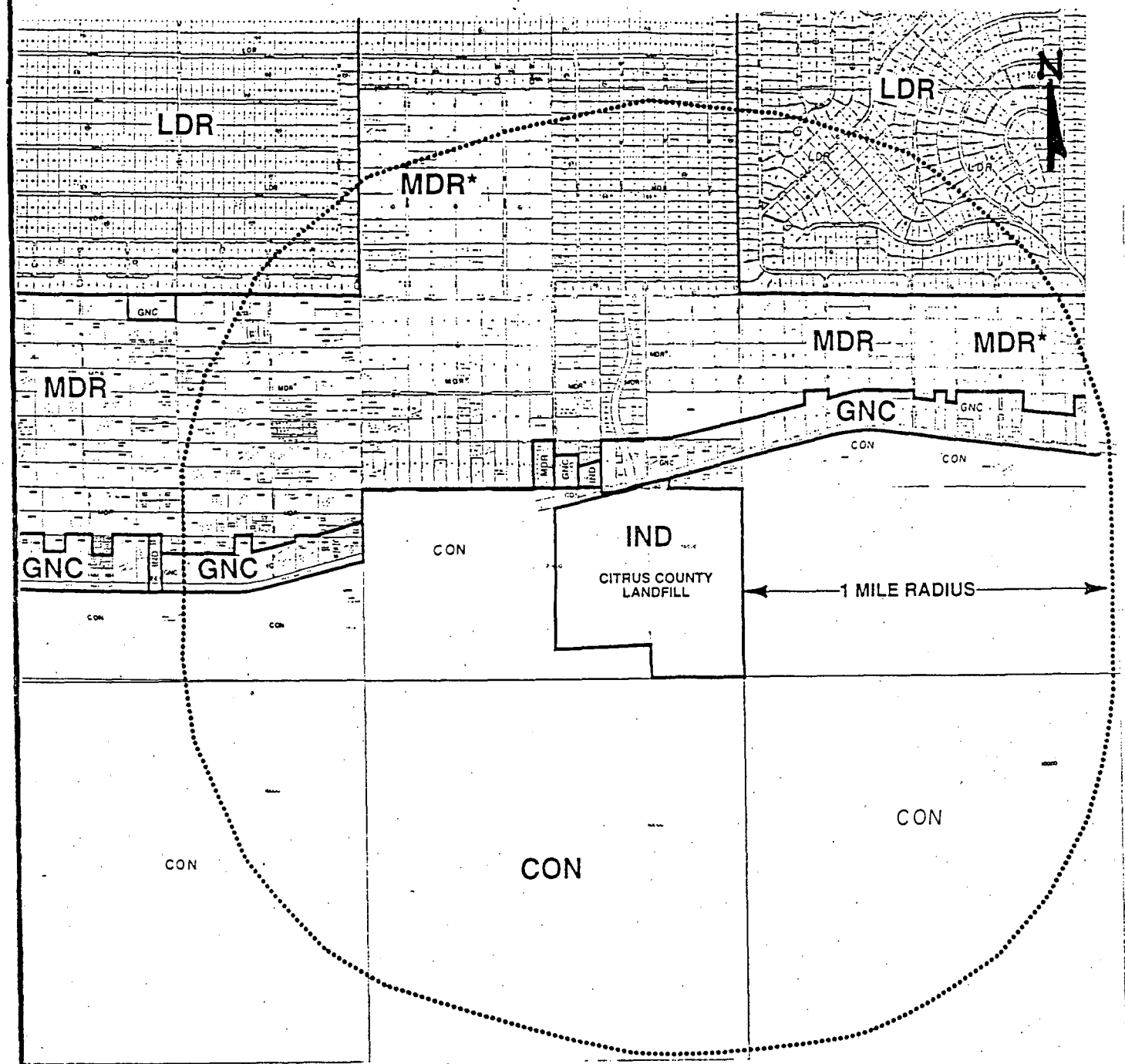
Notary Public Jeanette A. Schmidt
Notary Public, State Of Florida At Large
My Commission Expires Aug. 16, 1993

F-CRN-862-0515
PUBLIC NOTICE
State of Florida
Department of
Environmental Regulation
Notice of Application

The Department announces receipt of an application for a permit from Mr. Thomas Dick of Citrus County for long-term care and maintenance of the Citrus Central Landfill (approximately 60 acres) subject to Department rules, located near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Regulation, Southwest District Office, 4520 Oak Fair Boulevard, Tampa, Florida 33610-7347.

Published one (1) time in
The Citrus County Chronicle:
Friday, May 15, 1992



ANNOTATED AND EXCERPTED FROM CITRUS COUNTY LAND DEVELOPMENT ATLAS MAPS

SOURCE: Department of Technical Services, 1992
PREPARED BY: Department of Development Services, 1992

CITRUS COUNTY FLORIDA DEPT. OF TECHNICAL SERVICES ENGINEERING DIVISION	PROJECT LANDFILL EXPANSION SUBJECT CLOSURE & LONG TERM CARE 60 ACRE SITE	BY: C.W. DATE: 5-28-92 SHT. 1 OF 1

COMPREHENSIVE QUALITY ASSURANCE PLAN

Prepared by:

SAVANNAH LABORATORIES AND ENVIRONMENTAL SERVICES, INC.

December 1991

SAVANNAH DIVISION

Consultant Manager	6-2-91 Date	Consultant QA Officer	5-20-91 Date

TALLAHASSEE DIVISION

Consultant Manager	5-23-91 Date	Consultant QA Officer	5/22/91 Date

TAMPA BAY DIVISION

Consultant Manager	12/13/91 Date	Consultant QA Officer	05-23-91 Date

MOBILE DIVISION

Consultant Manager	6-2-91 Date	Quality Assurance Manager	12/12/91 Date

DEERFIELD BEACH DIVISION

Consultant Manager	6-2-91 Date	Consultant QA Officer	5-24-91 Date

FDER QA Officer	6-26-91 Date

APPROVED

870251G\8
6181-6181
CSB

KNL COMP QAP
Section No. 1
Revision No. 3
Date: Feb 28, 1992
Page 1 of 1

COMPREHENSIVE QUALITY ASSURANCE PLAN

for

KNL LABORATORY SERVICES
2742 N. Florida Avenue
PO Box 1833
Tampa, FL 33602
(813) 229-2879

prepared by:

KNL Laboratory Services
2742 N. Florida Ave.
PO Box 1833
Tampa, FL 33601
(813) 229-2879

RECEIVED
MAR 4 1992
Dept. of Environmental Regulation
Quality Assurance Section

APPROVED

Garrett McGibbon
Garrett McGibbon
[Laboratory Manager]

2/28/92
[Date]

Garrett McGibbon
Garrett McGibbon
[Laboratory QA Officer]

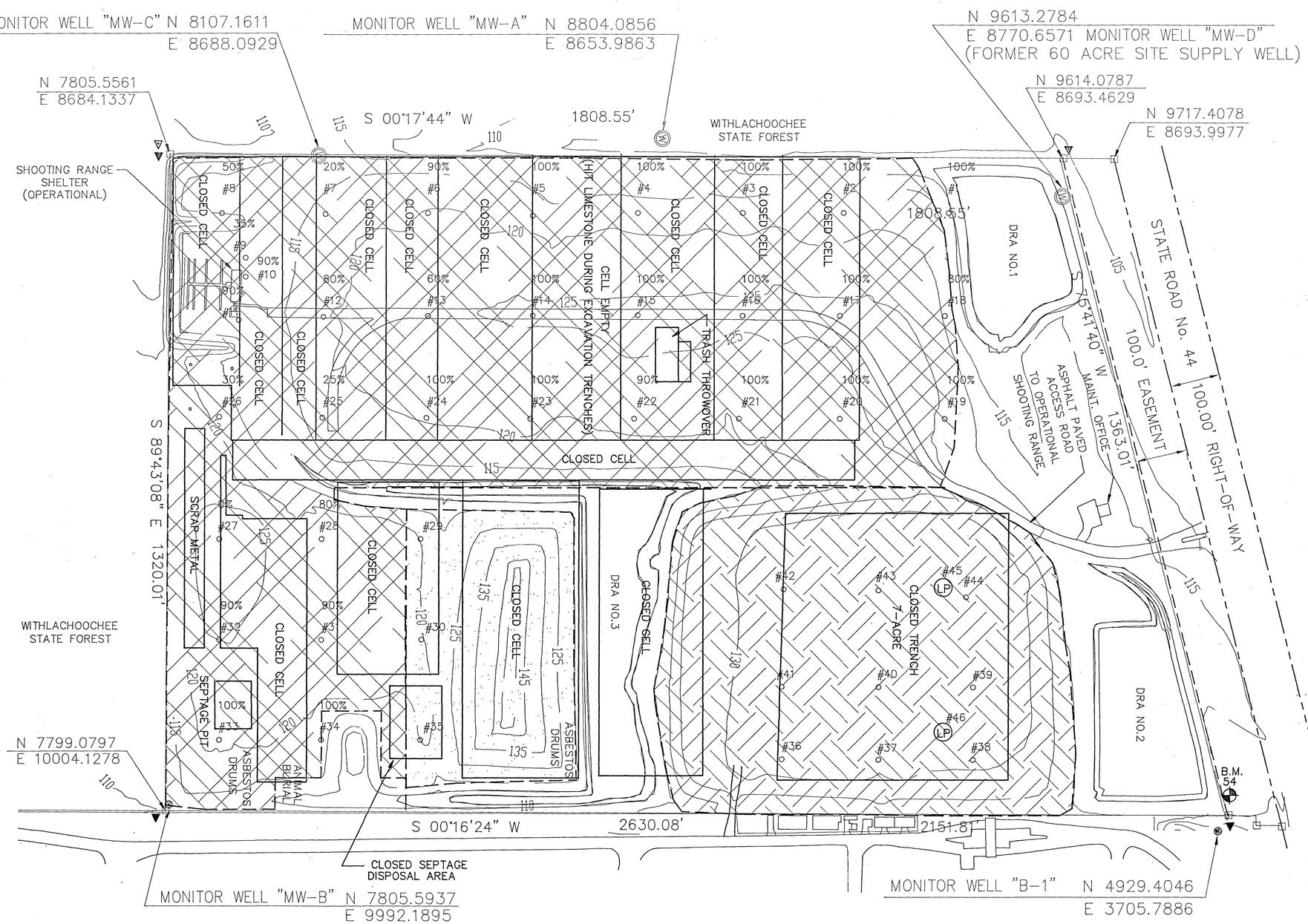
2/28/92
[Date]

Sylvia Labie
[DER QA Officer]
Sylvia S. Labie

3-13-92
[Date]

1033949

ATTACHMENT B



GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

NOTES

1. THE ENTIRE 60 ACRE SITE IS CURRENTLY CLOSED AND INACTIVE.
2. THIS MAP IS BASED ON SURVEYS BY CITRUS COUNTY D.T.S. (BOUNDARY) AND HAMRICK, INC. (AERIAL TOPO).
3. SOLID WASTE INFORMATION IS BASED ON EXAMINATION OF PLANS ON FILE IN D.T.S., AND PERSONAL INTERVIEWS WITH STAFF MEMBERS BROOKS GOSSELIN (ENGINEERING DIV.) AND PRIME DEVAUGHN (SOLID WASTE DIVISION).
4. REFERENCE BENCHMARK: FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK No. 54 ELEVATION 115.050' (N.G.V.D.) DISK/CM
5. MONITORING AND LONG TERM CARE PERMIT APPLICATION APPLIES ONLY TO THE 60 ACRE SITE SHOWN IN THIS DRAWING

ENGINEER'S CERTIFICATION/CHAP. 471 F.S.
(REF. 21 H-18.011 & 21 H-29.001 F.A.C.)
THIS DRAWING DEPICTS AS-BUILT DATA OBTAINED IN ACCORDANCE WITH COMMONLY ACCEPTED PROCEDURES CONSISTENT WITH APPLICABLE STANDARDS OF PRACTICE, CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF BUT IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESS OR IMPLIED.

LEGEND

- B.M. 54 — BENCHMARK
- ABANDONED 2" MONITOR WELL
- ABANDONED 4" MONITOR WELL
- LECHATE PUMP STATION
- MONITOR WELL
- GAS VENT
- FENCE
- MIXED REFUSE (GARBAGE, TREES, BRUSH, & TIRES) WITH PLASTIC MEMBRANE CAP. DISPOSAL TRENCH BOTTOM ELEVATION APPROXIMATELY 60 N.G.V.D.
- MIXED REFUSE (GARBAGE, TREES, BRUSH, & TIRES) WITH NO PLASTIC MEMBRANE CAP. DISPOSAL TRENCH BOTTOM ELEVATION APPROXIMATELY 60 N.G.V.D.
- SEVEN ACRE TRENCH WITH PLASTIC BOTTOM LINER AND CAP AND LEACHATE COLLECTION SYSTEM. GARBAGE REFUSE TO ELEVATION APPROXIMATELY 60 N.G.V.D.

			REVISIONS				PRELIMNARY		DESIGN		
BY		BY		BY			BY	DATE	BY	DATE	
DATE		DATE		DATE		DRAWN	RT/RD	9/92			
BY		BY		BY		PREPARED	TEF	9/92			
DATE		DATE		DATE		CHECKED					

DEPARTMENT OF TECHNICAL SERVICES
CITRUS COUNTY, FLORIDA
ENGINEERING DEPARTMENT

APPROVED BY: [signature]
DATE: 10-21-92

ACTIVE AND CLOSED PORTIONS MAP
CLOSED 60 ACRE LANDFILL SITE

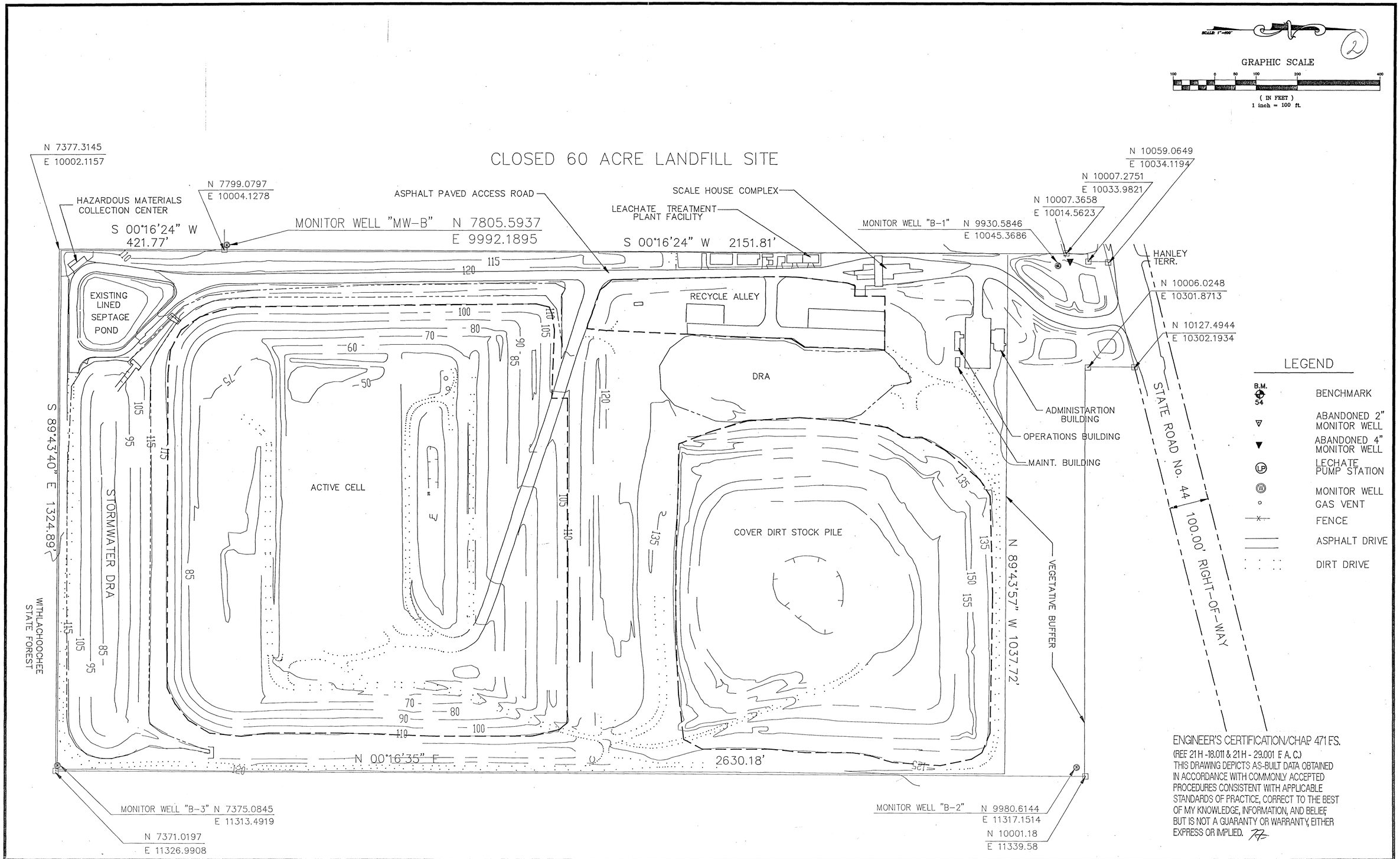
SECTION 1 TOWNSHIP 19 RANGE 18

PROJECT NUMBER 89-615

SCALE 1"=100'

SHEET OF

FILE: L-A1



REVISIONS					
BY / DATE		BY / DATE		BY / DATE	
BY / DATE		BY / DATE		BY / DATE	

	PRELIMNARY BY	PRELIMNARY DATE	DESIGN BY	DESIGN DATE
DRAWN	RDT	9/92		
PREPARED	TEF	9/92		
CHECKED				

DEPARTMENT OF TECHNICAL SERVICES
CITRUS COUNTY, FLORIDA
ENGINEERING DEPARTMENT

APPROVED BY: Thomas E. Fair
DATE 10-21-92

ACTIVE AND CLOSED PORTIONS MAP
ACTIVE 80 ACRE LANDFILL SITE

SECTION 1 TOWNSHIP 19 RANGE 18

PROJECT NUMBER 89-615
SCALE 1"=100'
SHEET OF
FILE: L-A2

Initials Date

Prepared By

Approved By

Treated Leachate - Weekly

Parameter	MCL	11-07-91	11-14-91	11-21-91	11-26-91	12-05-91	12-12-91	12-18-91	12-26-91	12-30-91	01-09-92	01-16-92	01-23-92	01-30-92
pH	6.5-8.5	8.3	8.1	8.2	8.0	8.4	8.4	8.3	8.3	8.2	8.0	7.4	8.3	8.0
Fecals	200 (2)	<4	<4	24	52	<4	4	<4	<4	2	<4	52	4	<4
Tot. Alk.	>12	560	580	464	448	460	610	280	476	308	332	436	468	376
		02-06-92	02-13-92	02-20-92	02-27-92	03-04-92	03-12-92	03-19-92	03-26-92	04-02-92	04-09-92	04-15-92	04-23-92	4-29-92
pH	6.5-8.5	8.2	8.0	8.1	8.0	8.1	7.8	8.0	7.9	8.1	8.2	8.2	8.3	7.8
Fecals	200 (2)	8	4	144	196	<4	<4	<4	233	12	<4	22	114	<4
Tot. Alk	>12	368	480	356	328	310	240	360	375	292	64	294	265	287
Nitrate Nitrogen						1.8								
Nitrite Nitrogen						0.71								
Total Kjeldahl Nit.						6.5								
		05-07-92	05-14-92	05-21-92	05-28-92	06-04-92	06-11-92	06-18-92	06-25-92	07-02-92	07-09-92	07-17-92	07-23-92	
pH	6.5-8.5	7.9	7.7	8.2	8.1	7.9	7.7	7.9	8.3	8.1	7.6	7.3	8.1	
Fecals	200 (2)	<4	<4	<4	204	178	<4	<4	<4	<4	TNTC (>800)	<4	40	
Tot. Alk.	>12	382	322	278	308	340	312	240	226	228	229	214	303	

Initials Date

Prepared By

Approved By

** - BASED ON RESULTS OF TESTING THIS PARAMETER REVIEW BY FDER MAY REQUIRE ADDITIONAL TESTING

Treated Leachate - Monthly (Limited)

Parameter	MCL	11-07-91	12-12-91	01-08-92	02-13-92	03-12-92	04-09-92	06-11-92	06-25-92	07-09-92
Biochemical Oxygen Demand	60 (1)	3	7	3	< 1	7	2	2	2	4
Total Suspended Solids	60 (1)	6	< 2	4	6	< 2	< 2	< 2	< 2	4
Chemical Oxygen Demand	**	280	1,110	432	150	100	574	116	491	277
Nitrate Nitrogen		1.20	90	0.1	1.8	< 0.8	< 0.01	4.2	< 0.01	0.09
Nitrite Nitrogen		0.95	0.66	0.57	0.64	1.17	0.65	1.90	26.3	68
Total Kjeldahl Nitrogen		7	27	3.8	6.2	5.7	5.3	4.7	6.2	3.0
Total Nitrogen		128	118	4.5	8.6	6.9	6.0	10.8	32.5	71
P.H. Units	6.5-8.5	8.3	8.4	8.0	8.0	7.8	8.2	7.7	8.3	7.6
Total Organic Carbon	**	100	71	52	38	22	80	22	16	20
Total Dissolved Solids	500	3,130	3,300	2,800	2,500	1,670	1,900	1,300	780	1,500
Lead	0.05	< 0.02	< 0.02	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chloride	250	698	820	520	880	299	367	290	132	279
Total Alkalinity	< 12	560	610	332	490	240	64	312	226	229
Fecal Coliform	200 (2)	< 4	4	< 4	4	< 4	< 4	< 4	< 4	TNTC (>800)

Prepared By Initials Date
Approved By

(Page 2 of 5)

(Treated Leachate - Monthly Extended) Effluent

Parameter	MCL	26-NOV-92	6-MAY-92	4 JUN-92	07 JULY-92	07-AUG-92
Microbiological						
Total Coliform MF, COL/100mL		2	<1	<1	<1	<1
FECAL Coliform MF, COL/100mL	(NOT	<1	<1	<1	<1	<1
Turbidity	AVAILABLE	0.4	0.72	<1.2	<1.2	0.95
Primary Metals	NOW)					
Arsenic, mg/l		0.011	<0.010	<0.010	<0.010	<0.010
Barium, mg/l		0.084	0.078	0.085	0.14	0.064
Cadmium, mg/l		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium, mg/l		0.012	<0.010	<0.010	<0.010	<0.010
Lead, mg/l		<0.0050	<0.0050	0.0057	<0.0050	<0.0050
Selenium, mg/l		<0.040*	<0.010	<0.010	<0.010	<0.010
Silver, mg/l		<0.010	<0.010	<0.010	<0.010	<0.010
Mercury, mg/l		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Fluoride (340.2) mg/l						
Fluoride mg/l		5.0	0.30	1.4	0.93	0.28
Nitrate-N-mg/l		310	34	35	140	28
Sodium, mg/l		650	160	420	290	250
Trihalomethanes						
Bromoform, ug/l		18	<5.0	99	67	17
Chloroform, ug/l		50	11	140	67	13
Dichlorobromomethane ug/l		53	9.6	160	120	26
Dichlorochloromethane, ug/l		35	8.8	210	140	29
Ethylene Dibromide (Method 504)						
1,2 Dibromoethane (EDB) ug/l		<0.20*	<0.40*	<1.0*	<1.0*	<0.20*
Primary Drinking - Volatiles						
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0
Pesticides (SDWA)						
Endrin, ug/l		<0.040*	<0.040*	<0.10	<0.10	<0.10
Gamma BHC, ug/l		<0.020*	<0.020*	<0.050	<0.050	<0.050
Methoxychlor, ug/l		<1.0*	<1.0*	<0.50	<0.50	<0.50
Toxaphene, ug/l		<2.0*	<2.0*	<5.0	<5.0	<5.0

(Continued on Next Page)

Prepared By — Initials — Date
Approved By

(Page 2 of 5)

Herbicides	MCL	26-NOV-91	6-MAY-92	04 JUN 92	07-JUL-92	07 AUG-92
2,4-D, ug/l		<0.50	<2.5*	<0.50	<0.50	<0.50
2,4,5-TP Silvex, ug/l		<0.10	<2.5*	<0.50	<0.50	<0.50
Chloride (325.2)						
Chloride, mg/l		780	200	550	350	220
Copper, mg/l		<0.025	<0.025	<0.025	<0.025	<0.025
Iron, mg/l		<0.050	<0.050	<0.050	<0.050	0.056
Manganese, mg/l		0.013	0.041	0.016	0.023	<0.010
Sulfate as SO4 (375.2)						
Sulfate as SO4, mg/l		26	22	<5.0	<5.0	9.9
Zinc, mg/l		0.086	0.043	0.025	0.027	<0.020
Color, PCU		70	60	<5	<5	<5.0
Odor, T.O.N.		12	16	32	16	4.0
pH Units		8.4	8.4	8.4	8.1	8.5
Total Dissolved Solids						
Total Suspended Solids, mg/l		3300	880	2100	1400	810
Corrosivity (Saturation Index)		+1.7	+1.4	+1.4	+0.77	+1.3
Surfactants (MRAS-EPA 425.1)		<0.10	<0.10	<0.10	<0.10	<0.10
Gross Alfa pCi/l		7+/-6	4+/-12	36+/-29	<0.1	3.8+/-5.9
Gross Beta pCi/l		115+/7	94+/-24	220+/-60	120+/-30	43+/-16
Volatile Organic Compounds						
Acrolein, ug/l		<100	<100	<100	<100	<100
Acrylonitrile, ug/l		<100	<100	<100	<100	<100
Benzene, ug/l		<5.0	—	—	—	
Bromoform, ug/l		23	—	—	—	
Carbon Tetrachloride, ug/l		<5.0				
Chlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	5.0
Chlorodibromomethane, ug/l		47	—	—	—	
Chloroethane, ug/l		<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l		<50	<100	<50	<50	<50
Chloroform, ug/l		50	—	—	—	
Dichlorobromomethane, ug/l		<5.0	—	—	—	
Dichlorodifluoromethane, ug/l		<50	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l		<5.0	—			
1-Dichloroethylene, ug/l		<5.0	—			
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<10
Methyl Bromide, ug/l		<10	<10	<10	<10	<10
Methyl Chloride, ug/l		<10	<10	<10	<10	<10
Methylene Chloride, ug/l		<10	<5.0	<5.0	<5.0	<5.0

Prepared By: Initials Date
Approved By:

(Page 3 of 5)

	MCL	26-NOV-91	6-MAY-92	04-JUN-92	07-JUL-92	07-AUG-92
1,1,2,2-Tetrachloroethane, ug/l		58	<5.0	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l		<5.0	—	—	—	
Toluene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
cis/trans-1,2-Dichloroethylene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	—	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	—	<5.0	<5.0	<5.0
Trichloroethylene, ug/l		<5.0	—	—	—	
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<10	—	—	—	
PP-Acid Extractable Organics						
2-Chlorophenol, ug/l		<10	<10	<10	<10	<10
2,4-Dichlorophenol, ug/l		<10	<10	<10	<10	<10
2,4-Dimethylphenol, ug/l		<10	<10	<10	<10	<10
4,6-Dinitro-o-Cresol, ug/l		<50	<50	<50	<50	<50
2,4-Dinitrophenol, ug/l		<50	<50	<50	<50	<50
2-Nitrophenol, ug/l		<10	<10	<10	<10	<10
4-Nitrophenol, ug/l		<50	<50	<50	<50	<50
P-Chloro-m-Cresol, ug/l		<10	<10	<10	<10	<10
Pentachlorophenol, ug/l		<50	<50	<50	<50	<50
Phenol, ug/l		<10	<10	<10	<10	<10
2,4,6-Trichlorophenol, ug/l		<10	<10	<10	<10	<10
PP Base/Neutral Compounds						
Acenaphthene, ug/l		<10	<10	<10	<10	<10
Acenaphthylene, ug/l		<10	<10	<10	<10	<10
Anthracene, ug/l		<10	<10	<10	<10	<10
Benzidine, ug/l		<80	<80	<80	<80	<80
Benzo(a) Anthracene, ug/l		<10	<10	<10	<10	<10
Benzo(a) Pyrene, ug/l		<10	<10	<10	<10	<10
3,4-Benzo Fluoranthene, ug/l		<10	<10	<10	<10	<10
Benzo(g,h,i) Perylene, ug/l		<10	<10	<10	<10	<10
Benzo(k) Fluoranthene, ug/l		<10	<10	<10	<10	<10
Bis(2-Chloroethoxy)Methane, ug/l		<10	<10	<10	<10	<10
Bis(2-Chloroethyl) Ether, ug/l		<10	<10	<10	<10	<10
Bis(2-Chloroisopropyl) Ether		<10	<10	<10	<10	<10
Bis(2-Ethylhexyl) Phthalate, ug/l		<10	<10	<10	<10	<10
4-Bromophenyl Phenyl Ether		<10	<10	<10	<10	<10
Butyl Benzyl Phthalate, ug/l		<10	<10	<10	<10	<10
2-Chloronaphthalene, ug/l		<10	<10	<10	<10	<10
4-Chlorophenyl Phenyl Ether		<10	<10	<10	<10	<10
Chrysene, ug/l		<10	<10	<10	<10	<10

(Continued on next page)

Prepared By: Initials: Date:
Approved By:

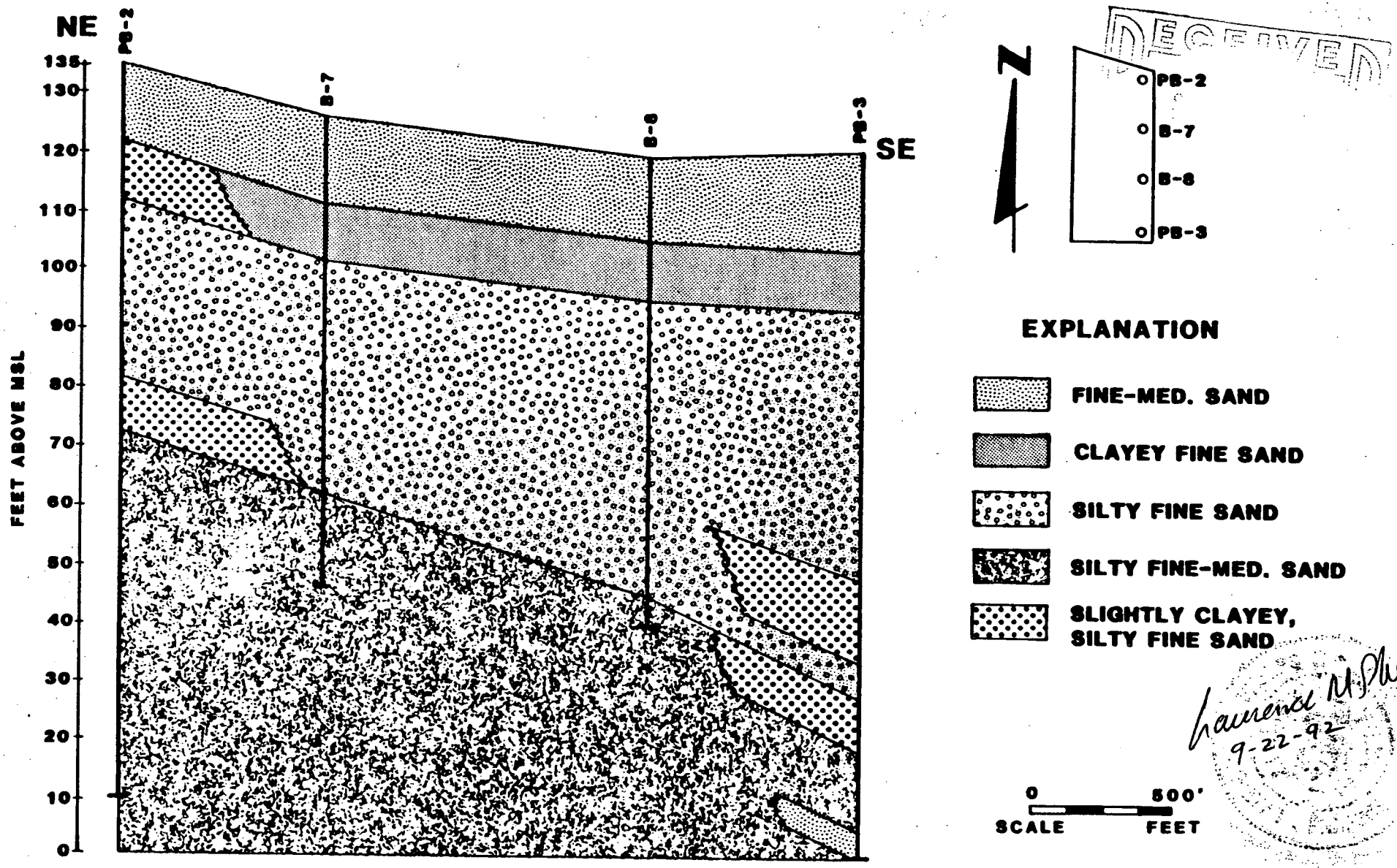
	MCL	26 NOV 91	6-MAY-92	04 JUN 92	0-JUL-92	07 AUG 92
Dibenzo (a,h) Anthracene, ug/l		<10	<10	<10	<10	<10
1,2 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10
1,3 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10
1,4 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10
3,3 Dichlorobenzidine, ug/l		<20	<20	<20	<20	<20
Diethyl Phthalate, ug/l		<10	<10	<10	<10	<10
Dimethyl Phthalate, ug/l		<10	<10	<10	<10	<10
Di-n-Butyl Phthalate, ug/l		<10	<10	<10	<10	<10
2,4 Dinitrotoluene, ug/l		<10	<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l		<10	<10	<10	<10	<10
Di-n-Octyl Phthalate, ug/l		<10	<10	<10	<10	<10
1,2-Diphenylhydrazine, ug/l		<10	<10	<10	<10	<10
Fluoranthene, ug/l		<10	<10	<10	<10	<10
Fluorene, ug/l		<10	<10	<10	<10	<10
Hexachlorobenzene, ug/l		<10	<10	<10	<10	<10
Hexachlorobutadiene, ug/l		<10	<10	<10	<10	<10
Hexachlorocyclopentadiene, ug/l		<10	<10	<10	<10	<10
Hexachloroethane, ug/l		<10	<10	<10	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l		<10	<10	<10	<10	<10
Isophorone, ug/l		<10	<10	<10	<10	<10
Naphthalene, ug/l		<10	<10	<10	<10	<10
Nitrobenzene, ug/l		<10	<10	<10	<10	<10
n-Nitrosodimethylamine, ug/l		<10	<10	<10	<10	<10
n-Nitrosodi-n-Propylamine, ug/l		<10	<10	<10	<10	<10
n-Nitrosodiphenylamine, ug/l		<10	<10	<10	<10	<10
Phenanthrene, ug/l		<10	<10	<10	<10	<10
Pyrene		<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene, ug/l		<10	<10	<10	<10	<10
2,3,7,8-TCDD, ug/l			ND *	ND *	ND *	ND *
Pesticides/PCBs						
Aldrin, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
Alpha-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
Beta-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
Gamma-BHC, ug/l		<50	—	—	—	—
Delta-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
Chlordane, ug/l		<50	<1.0*	<0.50	<0.50	<0.50
4,4'-DDT, ug/l		<10	<0.20*	<0.10	<0.10	<0.10
4,4'-DDE, ug/l		<10	<0.20*	<0.10	<0.10	<0.10
4,4'-DDD, ug/l		<10	<0.20*	<0.10	<0.10	<0.10
Dieldrin, ug/l		<50	<0.20*	<0.10	<0.10	<0.10

(Continued on next page)

Initials Date
Prepared By
Approved By

(Page 5 of 5)

	MCL	26-NOV-91	6-MAY-92	04 JUN 92	07-JUL-92	07-AUG-92
Alpha-Endosulfan, ug/l		<100	<0.10*	<0.050	<0.050	<0.050
Beta-Endosulfan, ug/l		<100	<0.10*	<0.10	<0.10	<0.10
Endosulfan Sulfate, ug/l		<100	<0.10*	<0.10	<0.10	<0.10
Endrin, ug/l		<100	—	—	—	—
Endrin aldehyde, ug/l		<50	<0.20*	<0.10	<0.10	<0.10
Heptachlor, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
Heptachlor Epoxide, ug/l		<50	<0.10*	<0.050	<0.050	<0.050
PCB-1242, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
PCB-1254, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
PCB-1221, ug/l		<500	<4.0*	<2.0	<2.0	<2.0
PCB-1232, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
PCB-1248, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
PCB-1260, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
PCB-1016, ug/l		<500	<2.0*	<1.0	<1.0	<1.0
Toxaphene, ug/l		1000	—	—	—	—
Phenolics, Total Recoverable, mg/l		<0.010	<0.010	<0.010	2.3	<0.010
Cyanide, ug/l		<0.010	0.088	<0.010	<0.010	0.029
Antimony, mg/l		<0.050	<0.050	<0.050	<0.050	<0.050
Beryllium, mg/l		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Nickel, mg/l		0.045	<0.040	<0.040	<0.040	<0.040
Thallium, mg/l		<0.010	<0.020*	<0.020*	<0.020*	<0.010

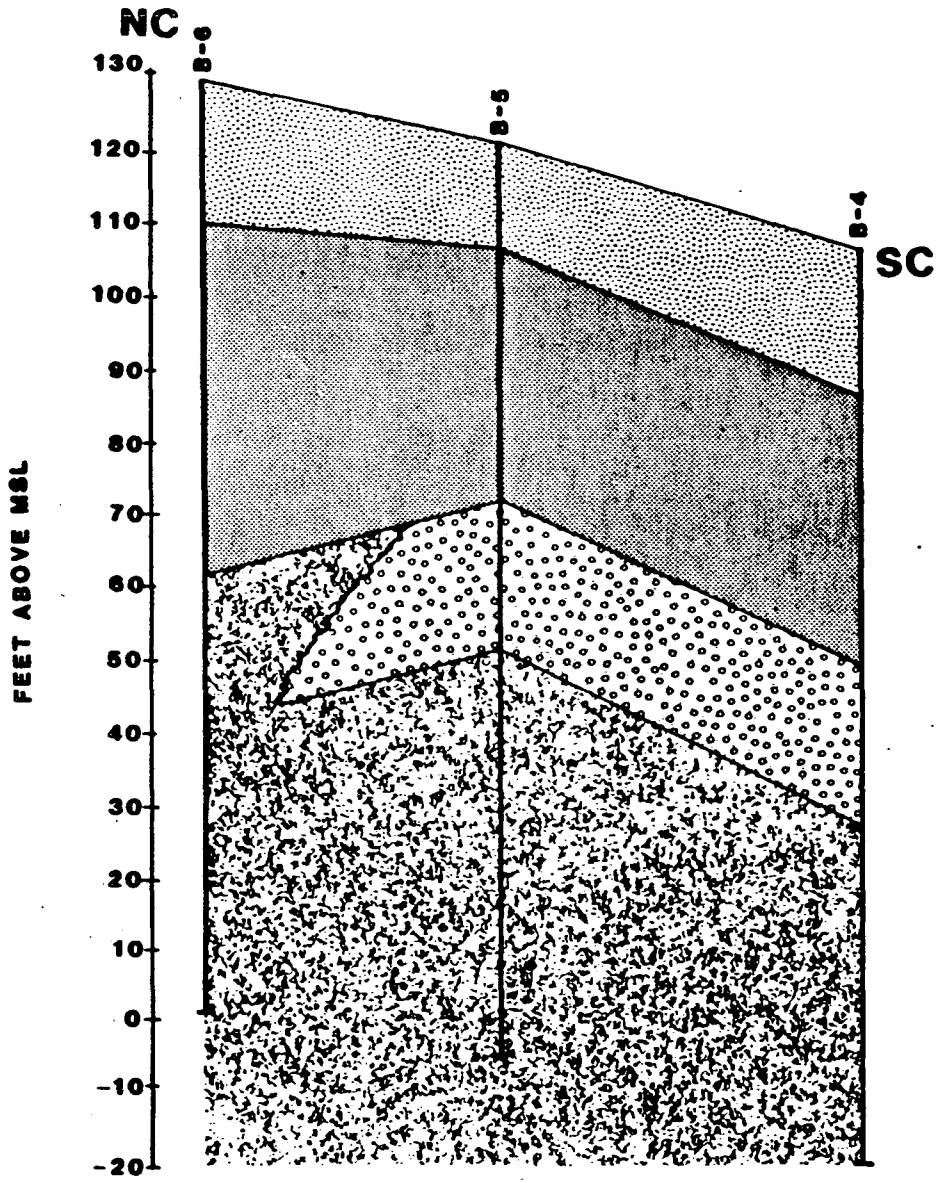


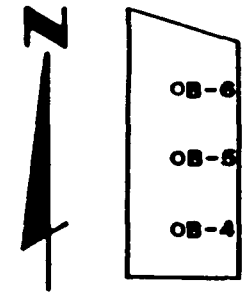
Laurence N. Plummer
9-22-92

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

NORTHEAST TO SOUTHEAST GEOLOGIC CROSS SECTION

FIGURE 6





EXPLANATION

- FINE-MED. SAND
- CLAYEY FINE SAND
- SILTY FINE SAND
- SILTY FINE-MED. SAND

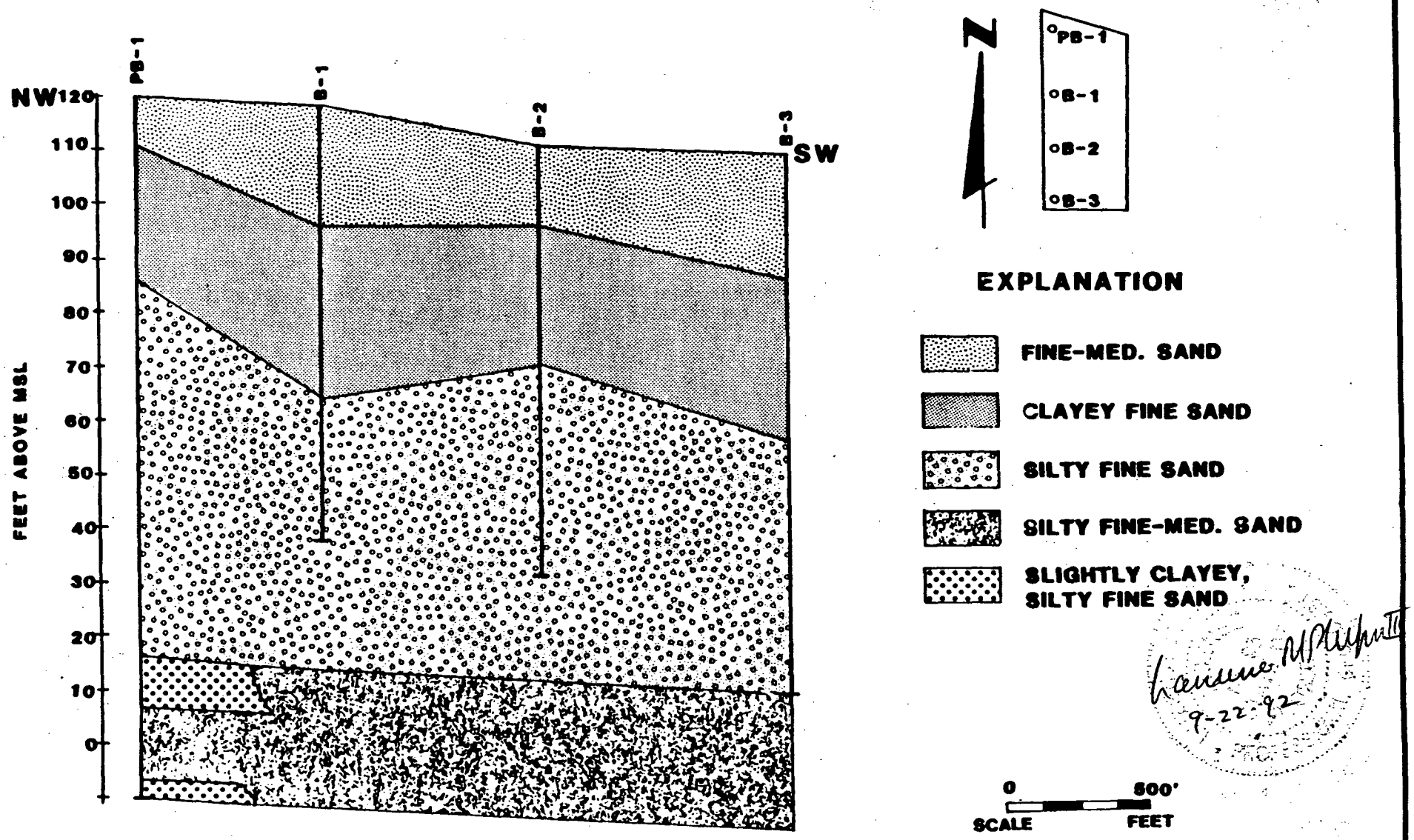
0 500'
SCALE FEET

Lawrence M Drupa III
9-22-92

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

NORTH CENTRAL TO SOUTH CENTRAL GEOLOGIC CROSS SECTION

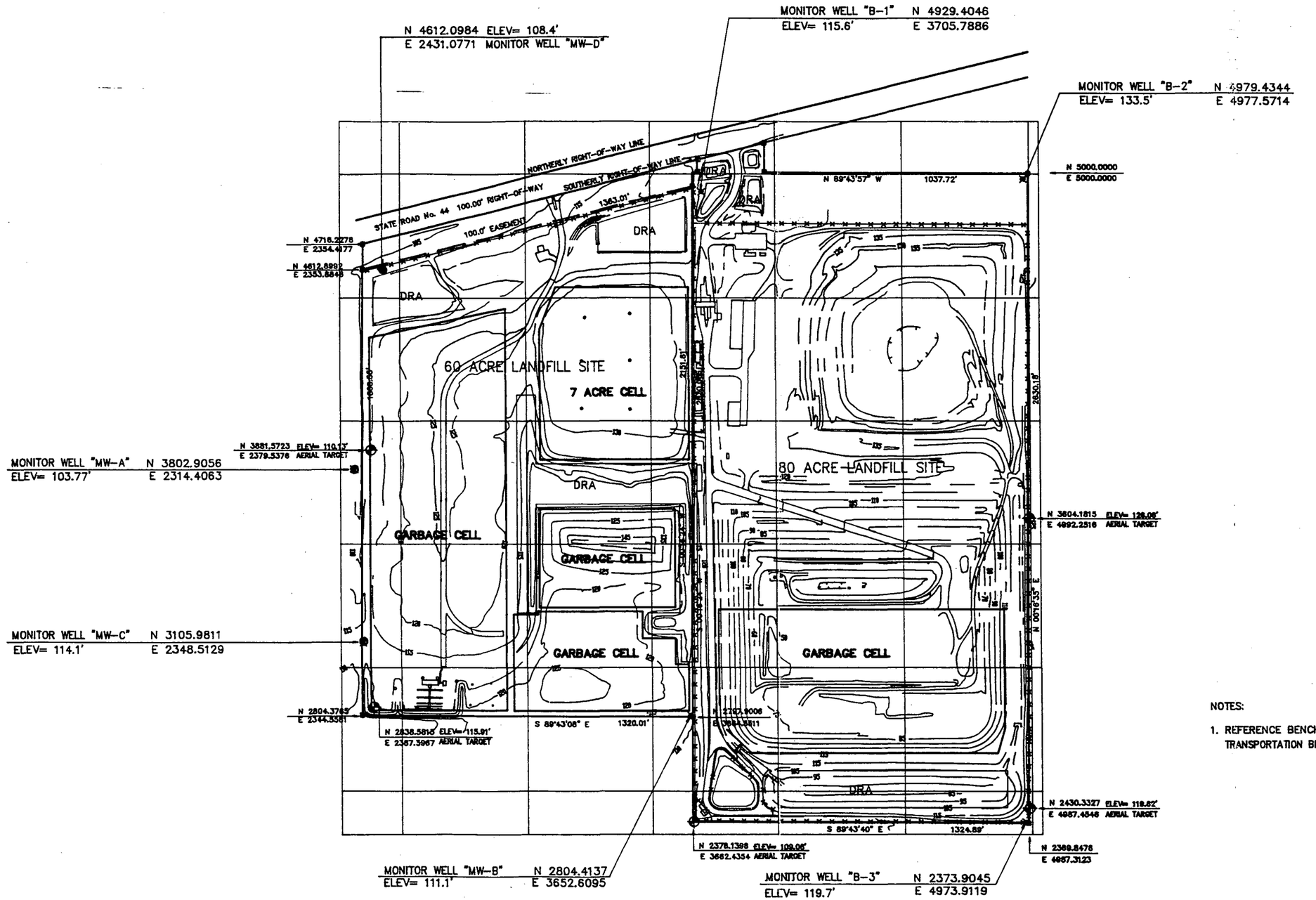
FIGURE 7



PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.

NORTHWEST TO SOUTHWEST GEOLOGIC CROSS SECTION

FIGURE 8



LEGEND

- ● MONITOR WELL
- • GAS VENT
- AERIAL TARGET
- FENCE

NOTES:

1. REFERENCE BENCHMARK FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK No. 54 ELEVATION 115.05' NVGD

BY		BY	REVISIONS	BY			PRELIMINARY		DESIGN	DEPARTMENT OF TECHNICAL SERVICES CITRUS COUNTY, FLORIDA ENGINEERING DEPARTMENT	APPROVED BY:	CITRUS COUNTY CENTRAL LANDFILL MONITOR WELL LOCATION MAP	PROJECT NUMBER 89-615	SHEET 1
DATE		DATE		DATE			BY	DATE	BY DATE				SCALE 1"=400'	OF 5
BY		BY		BY		DRAWN					DATE	SECTION 01 TOWNSHIP 19 RANGE 18		FILE:
DATE		DATE		DATE		DESIGNED								
						CHECKED								

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 32661-0440
(904) 746-2694 • FAX (904) 746-9874

Reply To:

MEMORANDUM

DATE: AUGUST 13, 1992

TO: MICHAEL D. MOORE, PROJECTS MANAGER, DIV. OF ENGINEERING

THROUGH: THOMAS H. DICK, DIRECTOR, DIVISION OF AQUATICS AND SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, ENG. TECH. II

SUBJECT: DER PERMIT APPLICATION - 60 ACRE SITE

==========

Attached please find a summary data base for the 60 acre site groundwater monitoring analysis from January, 1987 through July, 1992, for your records.

Hopefully, this will assist with DER's request for the Engineer's report on hydrogeologic conditions at the landfill.

In response to DER's request for water level readings, the water level access has been repaired on monitoring wells A, B, and C. I have been informed that the construction of monitoring well D, because it is the supply well, did not allow for water level readings.

The following readings were taken by Savannah Laboratories during their quarterly sampling of both the 80 acre and 60 acre sites:

FEET TO TOP OF CASING:

MW-A 109.80', MW-B 106.42' and MW-C 121.01' - 60 ACRE SITE

MW-1 114.07', MW-2 135.05' and MW-3 115.00' - 80 ACRE SITE

We have tentatively scheduled a project status meeting for August 27th, 9:00 a.m. at DTS conference room.

CJW:cjw

GROUNDWATER MONITORING

60 ACRE SITE

REPORT ANALYSIS FOR THE MONTH OF JULY, 1992

PARAMETER	CONTAMINANT LEVEL	MW-A	MW-B	MW-C	MW-D
Nitrate-N	10	<0.050	<0.050	<0.050	<0.050
Sodium	160	7.1	2.9	2.7	4.8
Turbidity	1	220	0.45	70	60
Chloride	250	6.5	7.5	8.0	5.5
Color	15	50	<5	10	50
Copper	1	<0.025	<0.025	<0.025	<0.025
Corrosivity	-0.2 to +0.2	+1.5	-4.2	-0.04	+0.74
Iron	0.3	12	0.32	3.3	4.3
Manganese	0.05	1.5	<0.010	0.015	1.4
Odor	3	16	1	1	1
PH Units	6.5 - 8.5	8.1	6.3	7.7	7.7
Sulfate	250	<5.0	<5.0	<5.0	<5.0
TDS	500	580	20	150	380
Zinc	5	0.049	0.15	0.089	1.9
Temperature	Degree C	27	26	26	27
TOC	N/A	9.7	3.1	3.3	10
Specific Cond.	N/A	880	31	240	610
Water Level, Ft.	to top of casing	109.80	106.42	121.01	*---
Fecal Coliform	N/A	<1	<1	<1	<1
TKN	N/A	0.64	0.17	0.14	0.43

* Construction of Supply Well (MW-D) does not allow for water level readings.

GROUNDWATER MONITORING

80 ACRE SITE

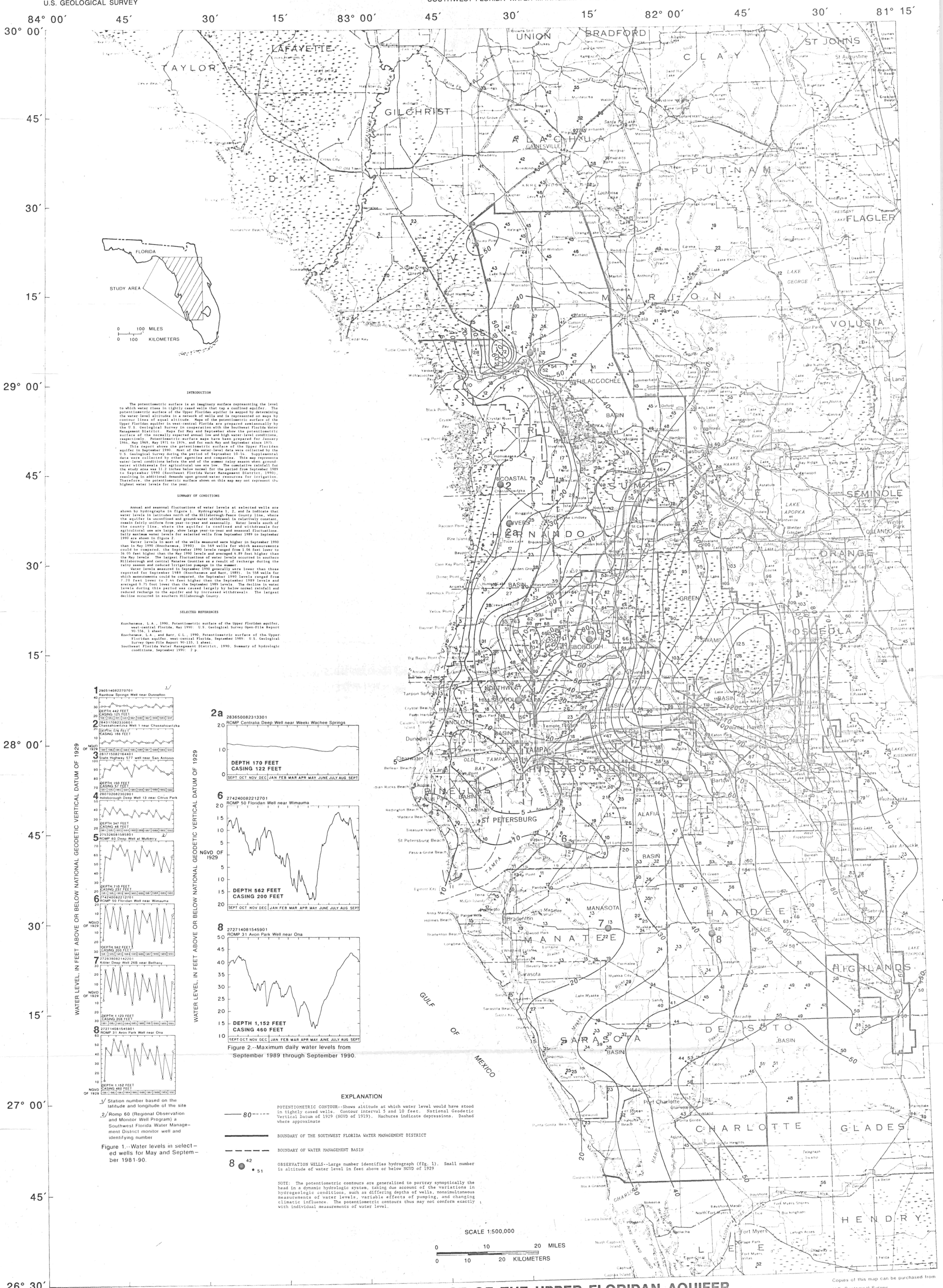
REPORT OF ANALYSIS FOR THE MONTH OF [redacted]

PARAMETER	CONTAMINENT LEVEL	MW-1	MW-2	MW-3
Nitrate-N	10	0.27	<0.050	<0.050
Sodium	160	5.2	5.9	8.8
Turbidity	1	90	18	350
Cadmium	0.010	<0.0050	<0.0050	<0.0050
Chromium	0.05	<0.010	<0.010	0.022
Chloride	250	4.5	3.0	5.0
Color	15	5	25	20
Copper	1	0.099	<0.025	<0.025
Corrosivity	-0.2 to + 0.2	-1.2	-1.2	-2.3
Iron	0.3	0.54	2.6	5.2
Manganese	0.05	0.014	0.12	0.046
Odor	3	2	65	2
PH units	6.5 - 8.5	7.6	7.5	7.0
Sulfate	250	<5.0	<5.0	9.3
TDS	500	60	56	28
Zinc	5	0.14	0.14	0.15
Temperature Degree C	N/A	24	23	24
TOC	N/A	5.4	15	2.0
Specific Cond.	N/A	88	94	50
Water Level ft.	to top of casing	114.07	135.05	115.00
Fecal Coliform	N/A	<1	<1	<1
TKN	N/A	0.40	2.5	0.26

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

OPEN-FILE REPORT 91-90



INTRODUCTION

The potentiometric surface is an imaginary surface representing the level to which water rises in tightly cased wells that tap a confined aquifer. The potentiometric surface of the Upper Floridan aquifer is mapped by determining the water-level altitudes in a network of wells and is represented on maps by contour lines of equal altitude. Maps of the potentiometric surface of the Upper Floridan aquifer in west-central Florida are prepared semiannually by the U.S. Geological Survey in cooperation with the Southwest Florida Water Management District. Maps for May and September show the potentiometric surface of the normally expected annual low and high water-level conditions, respectively. Potentiometric-surface maps have been prepared for January 1964, May 1969, May 1971 to 1974, and for each May and September since 1975.

This report shows the potentiometric surface of the Upper Floridan aquifer in September 1990. Most of the water-level data were collected by the U.S. Geological Survey during the period of September 10-14. Supplemental data were collected by other agencies and companies. This map represents water-level conditions before the end of the summer rainy season when ground-water withdrawals for agricultural use are low. The cumulative rainfall for the study area was 11.2 inches below normal for the period from September 1989 to September 1990 (Southwest Florida Water Management District, 1990), resulting in additional demands upon ground-water resources for irrigation. Therefore, the potentiometric surface shown on this map may not represent the highest water levels for the year.

SUMMARY OF CONDITIONS

Annual and seasonal fluctuations of water levels at selected wells are shown by hydrographs in figure 1. Hydrographs 1, 2, and 2a indicate that water levels in latitudes north of the Hillsborough-Pasco County line, where the aquifer is unconfined and ground-water withdrawal is relatively constant, remain fairly uniform from year-to-year and seasonally. Water levels south of the county line, where the aquifer is confined and withdrawals for agricultural use are large, show large year-to-year and seasonal fluctuations. Daily maximum water levels for selected wells from September 1989 to September 1990 are shown in figure 2.

Water levels in most of the wells measured were higher in September 1990 than in May 1990 (Knochenmus, 1990). In 569 wells for which measurements could be compared, the September 1990 levels ranged from 1.06 feet lower to 36.05 feet higher than the May 1990 levels and averaged 4.89 feet higher than the May levels. The largest fluctuations of water levels occurred in southern Hillsborough and central Manatee Counties as a result of recharge during the rainy season and reduced irrigation pumpage in the summer.

Water levels measured in September 1990 generally were lower than those reported for September 1989 (Knochenmus and Barr, 1989). In 558 wells for which measurements could be compared, the September 1990 levels ranged from 7.20 feet lower to 7.44 feet higher than the September 1989 levels and averaged 0.75 foot lower than the September 1989 levels. The decline in water levels during this period was caused largely by below normal rainfall and reduced recharge to the aquifer and by increased withdrawals. The largest decline occurred in southern Hillsborough County.

SELECTED REFERENCES

Knochenmus, L.A., 1990, Potentiometric surface of the Upper Floridan aquifer, west-central Florida, May 1990: U.S. Geological Survey Open-File Report 90-556, 1 sheet.

Knochenmus, L.A., and Barr, G.L., 1990, Potentiometric surface of the Upper Floridan aquifer, west-central Florida, September 1989: U.S. Geological Survey Open-File Report 90-133, 1 sheet.

Southwest Florida Water Management District, 1990, Summary of hydrologic conditions, September 1990: 2 p.

1/ Station number based on the latitude and longitude of the site

2/ Romp 60 (Regional Observation and Monitor Well Program) a Southwest Florida Water Management District monitor well and identifying number

Figure 1.--Water levels in selected wells for May and September 1981-90.

Figure 2.--Maximum daily water levels from September 1989 through September 1990.

EXPLANATION

80 — POTENTIOMETRIC CONTOUR--Shows altitude at which water level would have stood in tightly cased wells. Contour interval 5 and 10 feet. National Geodetic Vertical Datum of 1929 (NGVD of 1919). Hachures indicate depressions. Dashed where approximate

BOUNDARY OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

BOUNDARY OF WATER MANAGEMENT BASIN

8 42 51 — OBSERVATION WELLS--Large number identifies hydrograph (fig. 1). Small number is altitude of water level in feet above or below NGVD of 1929

NOTE: The potentiometric contours are generalized to portray synoptically the head in a dynamic hydrologic system, taking due account of the variations in hydrogeologic conditions, such as differing depths of wells, nonsimultaneous measurements of water levels, variable effects of pumping, and changing climatic influence. The potentiometric contours thus may not conform exactly with individual measurements of water level.

Base from U. S. Geological Survey
State of Florida map 1967 1:500 000

POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA, SEPTEMBER 1990

By

R.A. Mularoni and L.A. Knochenmus

1991

Copies of this map can be purchased from
U.S. Geological Survey
Book and Open-File Reports Section
Federal Center, Bldg. 810
Box 25425
Denver, Colorado 80225

MCL - mg/l
Analysis - mg/l
BDL - Below Detection Level

CITRUS COUNTY CENTRAL LANDFILL

MONITOR WELL A	MCL	1987 JANUARY	1987 APRIL	1987 JULY	1987 OCTOBER	1988 JANUARY	1988 APRIL	1988 JULY	1988 OCTOBER	1989 JANUARY	1989 APRIL	1989 JULY	1989 OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	<0.03	<0.03	<0.03	REPORT NA	<.0130	<0.0130	REPORT NA	0.134	0.112	REPORT NA	<0.010	0.129
Sodium	160	4.0	4.0	4.0	REPORT NA	3.8	4	REPORT NA	12	29.3	REPORT NA	6.82	7.18
Turbidity	1	0.7	0.2	5.1	REPORT NA	0.92	1.8	REPORT NA	0.67	1.45	REPORT NA	25.00	46
SECONDARY PARAMETERS													
Chloride	250	4.2	4.0	12.0	REPORT NA	7.58	6.08	REPORT NA	6.41	11.5	REPORT NA	9.00	7
Color	15	0	0	10	REPORT NA	5	20	REPORT NA	<5	5	REPORT NA	65.00	70
Copper	1	<0.01	<0.1	<0.01	REPORT NA	<.0050	0.152	REPORT NA	0.161	<0.017	REPORT NA	<0.020	0.020
Corrosivity	-0.2-+0.2	0.24	1.05	1.3	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	+0.07	+0.01
Iron	0.3	0.25	0.75	0.71	REPORT NA	0.26	0.314	REPORT NA	1.11	3.04	REPORT NA	4.367	4.840
Manganese	0.05	0.34	0.30	1.4	REPORT NA	0.3	0.214	REPORT NA	0.53	0.842	REPORT NA	0.838	1.011
Odor	3	1	8	1	REPORT NA	3	<1	REPORT NA	<1	<1	REPORT NA	4.00	8
PH (Field)	6.5 - 8.5	-----	-----	-----	REPORT NA	7.05	-----	REPORT NA	7.11	7.31	REPORT NA	6.57	6.60
PH (Lab)	6.5 - 8.5	7.3	8.1	8.3	REPORT NA	-----	7.34	REPORT NA	-----	-----	REPORT NA	6.70	6.97
Sulfate	250	4.6	3.4	3.3	REPORT NA	7.85	5.55	REPORT NA	8.3	5.2	REPORT NA	12.00	6
T.D. Solids	500	265	250	330	REPORT NA	2.44	268	REPORT NA	456	4.80	REPORT NA	442.00	486
Zinc	5	<0.05	0.13	0.11	REPORT NA	0.025	0.164	REPORT NA	0.075	0.045	REPORT NA	0.013	0.026
OTHER PARAMETERS													
Fecal Coliform	N/A	<3	>200	<3	REPORT NA	-----	<1	REPORT NA	-----	-----	REPORT NA	<1.00	0.500
Nitrogen Total Kjel	N/A	0.56	0.10	0.12	REPORT NA	-----	<0.10	REPORT NA	0.2	0.2	REPORT NA	0.531	BDL
Spec. Conduct. (Field)	N/A	500	430	498	REPORT NA	427	415	REPORT NA	780	-----	REPORT NA	800.00	850
Spec. Conduct. (Lab)	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	731.00	729
Temperature (Field)	N/A	22	24	25	REPORT NA	24.6	24.8	REPORT NA	24.8	25.1	REPORT NA	26.0	24.0
Total Organic Carbon	N/A	7.7	2.3	12.4	REPORT NA		75	REPORT NA	51	32	REPORT NA	2.5	10.6
VOC PARAMETERS													
Trichloroethene	0.003	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Tetrachloroethene	0.003	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Carbon Tetrachloride	0.003	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Vinyl Chloride	0.001	0.014	0.005	0.006	REPORT NA	-----	.0148	REPORT NA	<.001	<.001	REPORT NA	<0.001	0.013
1,1,1 Trichloroethane	0.2	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
1, 2 Dichloroethane	0.003	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Benzene	0.001	BDL	BDL	BDL	REPORT NA	-----	<.001	REPORT NA	.001	.005	REPORT NA	0.002	<0.001
Ethylene Dibromide	0.00002	<.00002	BDL	-----	REPORT NA	-----	<.00050	REPORT NA	<0.00002	<0.00002	REPORT NA	<0.00002	<0.00002
p-Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	.0027	REPORT NA	<.0005	<.0005	REPORT NA	0.022	0.023
1,1 Dichloroethane	0.007	-----	-----	0.002	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	0.001
Bromodichloromethane	N/A												
Bromoform	N/A												
Chloroform	N/A												
1,4 Dichlorobenzene	0.075												
Dibromochloromethane	N/A												
1,1 Dichloroethylene	N/A												
Tetrachloroethylene	N/A												
Trichlorothylene	N/A												
1,2 Dibromoethane	N/A												

MCL - mg/l
Analysis - mg/l
BDL - Below Detection Level

MONITOR WELL A	MCL	JANUARY	APRIL	1990 JULY	OCTOBER	JANUARY	APRIL	1991 JULY	OCTOBER	JANUARY	APRIL	1992 JULY	OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	0.196	<0.010	0.071	.134	0.079	<0.010	0.010	<0.050	<0.050	<0.050	<0.050	
Sodium	160	6.50	4.65	5.46	12	8.75	9.66	6.30	7.0	6.9	6.7	7.1	
Turbidity	1	49	77	97	0.67	89	42	88	75	90	180	220	
SECONDARY PARAMETERS													
Chloride	250	7	7	7	6.41	7	7.14	8	4.0	8.0	8.2	6.5	
Color	15	4	1	0	<5	<1	<1	<1	60	50	50	50	
Copper	1	<0.020	<0.020	<0.020	.161	<0.020	<0.020	<0.020	<0.025	<0.025	<0.025	<0.025	
Corrosivity	-0.2-+0.2	+0.01	+0.12	<0.62	-----	-----	-----	-----	+0.50	+1.6	+0.01	+1.5	
Iron	0.3	4.890	5.257	6.460	1.11	8.62	2.895	11.1	11	12	12	12	
Manganese	0.05	1.004	1.007	0.05	0.53	1.305	1.237	1.265	1.4	1.4	1.4	1.5	
Odor	3	8	8	4	<1	2	8	2	12	20	32	16	
PH (Field)	6.5 - 8.5	6.54	6.67	5.87	-----	6.65	6.85	6.73	7.0	8.1	6.5	8.1	
PH (Lab)	6.5 - 8.5	7.15	7.23	6.85	-----	-----	-----	-----	-----	-----	-----	-----	
Sulfate	250	6	6	10	8.3	9	8	10	7.5	13	<5.0	<5.0	
T.D. Solids	500	468	572	522	456	552	464	547	500	500	500	580	
Zinc	5	0.011	<0.010	0.062	.075	0.14	0.011	0.011	<0.020	<0.020	0.020	5	
OTHER PARAMETERS													
Fecal Coliform	N/A	<1	<1	<1	-----	<1	<1	-----	<1	<1	<1	<1	
Nitrogen Total Kjel	N/A	0.500	0.949	0.637	0.2	<0.50	<0.500	0.811	0.61	0.54	0.45	0.64	
Spec. Conduct. (Field)	N/A	800	850	960	-----	741	727	893	970	800	910	880	
Spec. Conduct. (Lab)	N/A	754	741	750	-----	-----	-----	-----	-----	-----	-----	-----	
Temperature (Field)	N/A	26.0	25.0	26.0	-----	-----	-----	-----	25	24	26	27	
Total Organic Carbon	N/A	2.0	1.8	2.3	51	3.3	2.1	17.8	3.7	3.0	3.6	9.7	
VOC PARAMETERS													
Trichloroethene	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Tetrachloroethene	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Carbon Tetrachloride	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
Vinyl Chloride	0.001	0.009	0.007	0.016	<.001	.013	BDL	.008	.006	.014	.005	.006	
1,1,1 Trichloroethane	0.2	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	.0002	
1, 2 Dichloroethane	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
Benzene	0.001	<0.001	0.005	0.002	.001	.003	.003	.002	.002	.003	.020	.002	
Ethylene Dibromide	0.00002	<0.00002	<0.00002	<0.00002	-----	BDL	BDL	BDL	<.00002	-----	-----	-----	
p-Dichlorobenzene	0.075	0.021	0.020	0.021	<.0005	-----	-----	-----	.052	-----	-----	-----	
1,1 Dichloroethane	0.007	<0.001	<0.001	<0.001	<.001	-----	BDL	BDL	<.001	-----	-----	-----	
Bromodichloromethane	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
Bromoform	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
Chloroform	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
1,4 Dichlorobenzene	0.075					.028	.019	.020	-----	.024	.025	.030	
Dibromochloromethane	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
1,1 Dichloroethylene	N/A									<.001	<.001	<.001	
Tetrachloroethylene	N/A									<.001	<.001	<.001	
Trichloroethylene	N/A									<.001	<.001	<.001	
1,2 Dibromoethane	N/A									<.00002	<.00002	<.00002	

MCL - mg/l
Analysis - mg/l
BDL - Below Detection Level

CITRUS COUNTY CENTRAL LANDFILL

MONITOR WELL B	MCL	JANUARY	1987 APRIL	JULY	OCTOBER	JANUARY	APRIL	1988 JULY	OCTOBER	JANUARY	APRIL	1989 JULY
PRIMARY PARAMETERS												
Nitrogen, Nitrate	10	0.44	0.47	0.49	REPORT NA	0.31	0.187	REPORT NA	0.164	0.183	REPORT NA	0.425
Sodium	160	4.0	4.0	4.0	REPORT NA	3.8	3.2	REPORT NA	4	18.3	REPORT NA	2.63
Turbidity	1	0.4	0.9	2.0	REPORT NA	0.37	0.72	REPORT NA	0.59	2.75	REPORT NA	9.00
SECONDARY PARAMETERS												
Chloride	250	5.2	4.0	4.0	REPORT NA	5.83	3.6	REPORT NA	3.8	5.81	REPORT NA	5.00
Color	15	0	0	10	REPORT NA	5	10	REPORT NA	<5	<5	REPORT NA	35.00
Copper	1	<0.01	<0.01	<0.01	REPORT NA	<.0050	0.254	REPORT NA	<.0050	<.0050	REPORT NA	0.038
Corrosivity	-0.2-+0.2	-3.90	-3.23	-3.2	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-6.61
Iron	0.3	<0.10	0.20	0.50	REPORT NA	<.010	0.436	REPORT NA	0.38	0.17	REPORT NA	1.140
Manganese	0.05	<0.05	<0.05	<0.05	REPORT NA	<.0050	<0.0050	REPORT NA	.021	<.005	REPORT NA	0.031
Odor	3	1	1	2	REPORT NA	2	<1	REPORT NA	<1	<1	REPORT NA	2.00
PH (Field)	6.5 - 8.5	-----	-----	-----	REPORT NA	7.00	-----	REPORT NA	5.87	6.01	REPORT NA	4.21
PH (Lab)	6.5 - 8.5	6.1	6.8	6.7	REPORT NA	-----	5.80	REPORT NA	-----	-----	REPORT NA	5.70
Sulfate	250	2.7	<0.1	1.6	REPORT NA	2.04	2.18	REPORT NA	3.24	0.7	REPORT NA	7.00
T.D. Solids	500	17	14.5	25.5	REPORT NA	14.5	60	REPORT NA	25	24	REPORT NA	<40.00
Zinc	5	0.09	0.11	0.18	REPORT NA	.025	0.131	REPORT NA	0.15	0.057	REPORT NA	0.269
OTHER PARAMETERS												
Fecal Coliform	N/A	<3	<1	<3	REPORT NA	-----	<1	REPORT NA	<1	-----	REPORT NA	<1.00
Nitrogen Total Kjel	N/A	0.56	0.16	<0.05	REPORT NA	-----	0.19	REPORT NA	<0.10	0.6	REPORT NA	<0.500
Spec. Conduct. (Field)	N/A	40.0	35.5	42.0	REPORT NA	31	30	REPORT NA	38	-----	REPORT NA	340.00
Spec. Conduct. (Lab)	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	49.00
Temperature (Field)	N/A	21	22	24	REPORT NA	20.3	22.9	REPORT NA	23.1	23.4	REPORT NA	25.0
Total Organic Carbon	N/A	2.4	<1.0	<1.0	REPORT NA	-----	5	REPORT NA	<1	3	REPORT NA	2.1
VOC PARAMETERS												
Trichloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
Tetrachloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
Carbon Tetrachloride	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
Vinyl Chloride	0.001	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
1,1,1 Trichloroethane	0.2	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
1, 2 Dichloroethane	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
Benzene	0.001	BDL	-----	-----	REPORT NA	-----	<.0005	REPORT NA	<.0005	.001	REPORT NA	<0.001
Ethylene Dibromide	0.00002	<.00002	-----	-----	REPORT NA	-----	<0.00002	REPORT NA	<0.00002	<0.00002	REPORT NA	<0.00002
p-Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	<.075	REPORT NA	<.0005	<.0005	REPORT NA	<0.001
1,1 Dichloroethane	0.007	-----	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001
Bromodichloromethane	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----
Bromoform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----
Chloroform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----
1,4 Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----
Dibromochloromethane	N/A											
Tetrachloroethylene	N/A											
Trichlorothylene	N/A											
1,2 Dibromoethane	N/A											
1,1 Dichloroethylene	N/A											

MCL - mg/l
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MONITOR WELL B	MCL	JANUARY	APRIL	1990 JULY	OCTOBER	JANUARY	APRIL	1991 JULY	OCTOBER	JANUARY	APRIL	1992 JULY
PRIMARY PARAMETERS												
Nitrogen, Nitrate	10	0.231	0.253	0.207	.164	0.222	0.085	0.109	0.092	0.083	0.066	<0.050
Sodium	160	2.59	2.36	2.22	4	2.35	6.67	2.25	3.0	3.0	2.8	2.9
Turbidity	1	4	3	4	0.59	1.39	1.3	1	5.4	0.86	1.9	0.45
SECONDARY PARAMETERS												
Chloride	250	4	4	3	3.8	3	3.90	4	3.0	2.9	3.7	7.5
Color	15	1	1	0	<5	<1	<1	<1	<5.0	<5	<5	<5
Copper	1	<0.020	0.023	0.038	<.0050	<0.020	<0.020	<0.020	<0.025	<0.025	<0.025	<0.025
Corrosivity	-0.2-+0.2	-5.28	-4.10	-5.51	-----	-----	-----	-----	-4.6	-3.8	-5.3	-4.2
Iron	0.3	0.149	0.097	0.066	0.38	0.109	0.189	0.167	1.6	0.24	0.10	0.32
Manganese	0.05	<0.020	<0.020	<0.020	.021	<0.020	<0.020	<0.020	0.013	<0.010	<0.010	<0.010
Odor	3	2	1	1	<1	ND	ND	ND	1	2	2	1
PH (Field)	6.5 - 8.5	5.87	6.62	5.24	-----	5.70	5.65	5.53	5.7	6.5	5.3	6.3
PH (Lab)	6.5 - 8.5	5.88	6.01	5.93	-----	-----	-----	-----	-----	-----	-----	-----
Sulfate	250	5	5	9	3.24	9	8	8	<5.0	<5.0	<5.0	<5.0
T.D. Solids	500	<40	42	<40	25	<40	<40	<40	24	20	22	20
Zinc	5	0.113	0.045	0.071	0.15	0.231	0.039	0.026	0.11	0.17	0.16	0.15
OTHER PARAMETERS												
Fecal Coliform	N/A	<1	<1	<1	-----	<1	<1	-----	<1	<1	<1	<1
Nitrogen Total Kjel	N/A	<0.500	<0.500	<0.500	<0.10	<0.50	<0.500	<0.5	<0.10	<0.10	<0.10	0.17
Spec. Conduct. (Field)	N/A	20	20	30	-----	24	23	24	30	32	30	31
Spec. Conduct. (Lab)	N/A	36	51	37	-----	-----	-----	-----	-----	-----	-----	-----
Temperature (Field)	N/A	24.0	24.0	31.0	-----	-----	-----	-----	23	22	24	31
Total Organic Carbon	N/A	<1.0	<1.0	1.3	<1	2.9	1.9	2.1	1.5	1.5	1.9	3.1
VOC PARAMETERS												
Trichloroethene	0.003	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	-----	-----	-----
Tetrachloroethene	0.003	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	-----	-----	-----
Carbon Tetrachloride	0.003	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	<.001	<.001	-----
Vinyl Chloride	0.001	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	<.001	<.001	-----
1,1,1 Trichloroethane	0.2	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	<.001	<.001	-----
1, 2 Dichloroethane	0.003	-----	-----	<0.001	<0.001	BDL	BDL	BDL	<.001	<.001	<.001	-----
Benzene	0.001	-----	-----	<0.001	0.005	BDL	BDL	BDL	<.001	<.001	<.001	-----
Ethylene Dibromide	0.00002	-----	-----	<0.00002	-----	BDL	BDL	BDL	<.00002	-----	-----	-----
p-Dichlorobenzene	0.075	-----	-----	<0.001	0.005	-----	BDL	BDL	<.001	-----	-----	-----
1,1 Dichloroethane	0.007	-----	-----	<0.001	<.001	-----	BDL	BDL	<.001	<.001	-----	-----
Bromodichloromethane	N/A				-----	BDL	BDL	BDL	-----	-----	-----	-----
Bromoform	N/A				-----	BDL	BDL	BDL	-----	-----	-----	-----
Chloroform	N/A				-----	BDL	BDL	BDL	-----	-----	-----	-----
1,4 Dichlorobenzene	0.075				-----	-----	BDL	BDL	-----	<.001	<.001	-----
Dibromochloromethane	N/A					BDL	BDL	BDL	-----	-----	-----	-----
Tetrachloroethylene	N/A					-----	-----	-----	-----	<.001	<.001	-----
Trichlorothylene	N/A					-----	-----	-----	-----	<.001	<.001	-----
1,2 Dibromoethane	N/A					-----	-----	-----	-----	<.00002	<.00002	-----
1,1 Dichloroethylene	N/A					-----	-----	-----	-----	-----	<.001	-----

MCL - mg/l
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CITRUS COUNTY CENTRAL LANDFILL

MONITOR WELL C	MCL	1987 JANUARY	1987 APRIL	1987 JULY	1987 OCTOBER	1988 JANUARY	1988 APRIL	1988 JULY	1988 OCTOBER	1989 JANUARY	1989 APRIL	1989 JULY	1989 OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	<0.03	<0.03	<0.03	REPORT NA	<.0130	<0.0130	REPORT NA	0.153	0.046	REPORT NA	0.245	<0.010
Sodium	160	3.0	2.0	3.0	REPORT NA	2.7	2.6	REPORT NA	2.3	17.8	REPORT NA	1.99	2.25
Turbidity	1	0.9	0.8	1.4	REPORT NA	0.22	0.5	REPORT NA	0.26	1.75	REPORT NA	1.00	<1
SECONDARY PARAMETERS													
Chloride	250	4.2	3.0	3.0	REPORT NA	3.52	3.94	REPORT NA	18	4.852	REPORT NA	6	4
Color	15	5	0	0	REPORT NA	5	10	REPORT NA	5	5	REPORT NA	4	5
Copper	1	<0.01	<0.01	<0.01	REPORT NA	<.0050	0.25	REPORT NA	0.17	0.021	REPORT NA	<0.020	<0.020
Corrosivity	-0.2-+0.2	0.31	0.53	1.1	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	+0.04	+0.14
Iron	0.3	0.70	0.24	0.26	REPORT NA	0.32	0.162	REPORT NA	0.39	0.78	REPORT NA	0.334	0.089
Manganese	0.05	0.28	0.07	0.37	REPORT NA	.005	<0.0050	REPORT NA	<0.0050	0.082	REPORT NA	<0.020	<0.020
Odor	3	1	1	4	REPORT NA	3	<1	REPORT NA	<1	<1	REPORT NA	4	2
PH (Field)	6.5 - 8.5	-----	-----	-----	REPORT NA	7.01	-----	REPORT NA	7.31	7.75	REPORT NA	7.62	7.75
PH (Lab)	6.5 - 8.5	7.3	7.9	8.2	REPORT NA	-----	7.75	REPORT NA	-----	-----	REPORT NA	7.71	7.89
Sulfate	250	21.0	2.7	2.5	REPORT NA	3.98	4.75	REPORT NA	10	3.3	REPORT NA	7	6
T.D. Solids	500	285	190	310	REPORT NA	150	180	REPORT NA	152.5	1576	REPORT NA	126	130
Zinc	5	<0.05	<0.05	<0.05	REPORT NA	.025	0.101	REPORT NA	.072	0.48	REPORT NA	0.014	<0.010
OTHER PARAMETERS													
Fecal Coliform	N/A	<3	>200	<3	REPORT NA	-----	<1	REPORT NA	-----	-----	REPORT NA	<1	<1
Nitrogen Total Kjel	N/A	0.45	0.12	0.07	REPORT NA	-----	<0.10	REPORT NA	3.3	1.4	REPORT NA	<0.500	<0.500
Spec. Conduct. (Field)	N/A	500	315	480	REPORT NA	223	245	REPORT NA	251	-----	REPORT NA	240	220
Spec. Conduct. (Lab)	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	204	208
Temperature (Field)	N/A	21	23.5	25	REPORT NA	24.3	23.7	REPORT NA	23.6	21.4	REPORT NA	25.0	26.0
Total Organic Carbon	N/A	18.7	2.0	17.1	REPORT NA	-----	37	REPORT NA	13	9	REPORT NA	1.1	2.5
VOC PARAMETERS													
Trichloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
Tetrachloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
Carbon Tetrachloride	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
Vinyl Chloride	0.001	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
1,1,1 Trichloroethane	0.2	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
1, 2 Dichloroethane	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
Benzene	0.001	BDL	-----	-----	REPORT NA	-----	<.0005	REPORT NA	<.0005	<.0005	REPORT NA	<0.001	N/A
Ethylene Dibromide	0.00002	<.00002	-----	-----	REPORT NA	-----	<0.00002	REPORT NA	<0.00002	<0.00002	REPORT NA	<0.00002	N/A
p-Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	<.0005	REPORT NA	<.0005	<.0005	REPORT NA	<0.001	N/A
1,1 Dichloroethane	0.007	-----	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	N/A
Bromodichloromethane	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Bromoform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Chloroform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
1,4 Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Dibromochloromethane	N/A												
1,2 Dibromoethane	N/A												
1,1 Dichloroethylene	N/A												
Tetrachloroethylene	N/A												
Trichloroethylene	N/A												

MCL - mg/l
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MONITOR WELL C	MCL	JANUARY	APRIL	1990 JULY	OCTOBER	JANUARY	APRIL	1991 JULY	OCTOBER	JANUARY	APRIL	1992 JULY	OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	0.096	0.088	0.046	.153	0.057	0.027	0.051	<0.050	<0.050	<0.050	<0.050	
Sodium	160	2.21	2.00	2.00	2.3	2.12	6.27	1.94	2.6	2.4	2.5	2.7	
Turbidity	1	<1	3	1	0.26	21	2.2	3	14	55	0.55	70	
SECONDARY PARAMETERS													
Chloride	250	4	5	4	18	4	4.10	5	3.0	4.4	4.3	8.0	
Color	15	1	1	1	5	5	<1	5	-5.0	100	10	10	
Copper	1	<0.020	<0.020	<0.020	0.17	<0.020	<0.020	<0.020	<0.025	<0.025	<0.025	<0.025	
Corrosivity	-0.2-+0.2	-0.72	-0.29	-1.40	-----	-----	-----	-----	<0.020	-0.87	-0.16	-0.04	
Iron	0.3	<0.040	0.102	0.113	0.39	1.565	0.249	0.651	5.5	5.5	0.43	3.3	
Manganese	0.05	<0.020	<0.020	<0.020	<0.0050	<0.020	<0.020	<0.020	<0.053	<0.017	<0.010	0.015	
Odor	3	4	1	1	<1	ND	ND	ND	2	4	1	1	
PH (Field)	6.5 - 8.5	6.97	7.38	6.23	-----	7.73	7.57	7.42	8.0	7.0	7.6	7.7	
PH (Lab)	6.5 - 8.5	7.85	7.99	7.74	-----	-----	-----	-----	-----	-----	-----	-----	
Sulfate	250	6	6	9	10	9	8	9	-5.0	<5.0	<5.0	<5.0	
T.D. Solids	500	122	172	126	152.5	97	107	129	48	100	120	150	
Zinc	5	<0.010	<0.010	0.013	.072	0.015	<0.010	<0.010	<0.020	<0.020	0.022	0.089	
OTHER PARAMETERS													
Fecal Coliform	N/A	<1	<1	<1	-----	<1	<1	-----	<1	<1	<1	<1	
Nitrogen Total Kjel	N/A	<0.500	<0.500	<0.500	3.3	<0.50	<0.500	<0.5	<0.10	<0.10	<0.10	0.14	
Spec. Conduct. (Field)	N/A	220	250	260	-----	113	197	227	170	190	220	240	
Spec. Conduct. (Lab)	N/A	216	227	231	-----	-----	-----	-----	-----	-----	-----	-----	
Temperature (Field)	N/A	24.0	24.0	25.0	-----	-----	-----	-----	23	22	24	26	
Total Organic Carbon	N/A	<1.0	<1.0	1.2	13	2.1	1.8	2.7	1.4	1.6	2.0	3.3	
VOC PARAMETERS													
Trichloroethene	0.003	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Tetrachloroethene	0.003	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Carbon Tetrachloride	0.003	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	-----	
Vinyl Chloride	0.0001	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	-----	
1,1,1 Trichloroethane	0.2	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	-----	
1, 2 Dichloroethane	0.00002	-----	-----	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	-----	
Benzene	0.075	-----	-----	<0.001	<.0005	BDL	BDL	BDL	<.001	<.001	<.001	-----	
Ethylene Dibromide	0.007	-----	-----	-----	<.001	BDL	BDL	BDL	<.00002	-----	-----	-----	
p-Dichlorobenzene	N/A	-----	-----	-----	-----	-----	-----	-----	<.001	-----	-----	-----	
1,1 Dichloroethane	N/A	-----	-----	-----	-----	-----	-----	-----	<.001	-----	-----	-----	
Bromodichloromethane	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
Bromoform	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
Chloroform	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
1,4 Dichlorobenzene	0.075	-----	-----	-----	-----	BDL	BDL	BDL	-----	<.001	<.001	-----	
Dibromochloromethane	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
1,2 Dibromoethane	N/A									<.00002	<.00002	-----	
1,1 Dichloroethylene	N/A									<.001	<.001	-----	
Tetrachloroethylene	N/A									<.001	<.001	-----	
Trichloroethylene	N/A									<.001	<.001	-----	

MCL - mg/l
Analysis - mg/l
BDL - Below Detection Level

CITRUS COUNTY CENTRAL LANDFILL

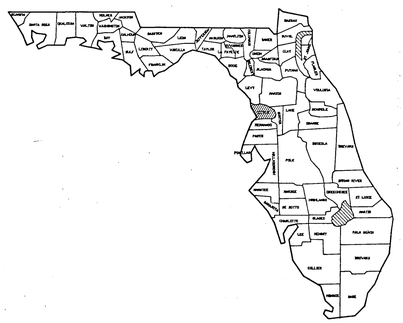
MONITOR WELL D	MCL	1987 JANUARY	1987 APRIL	1987 JULY	1987 OCTOBER	1988 JANUARY	1988 APRIL	1988 JULY	1988 OCTOBER	1989 JANUARY	1989 APRIL	1989 JULY	1989 OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	<0.03	<0.03	<0.03	REPORT NA	<.0130	<0.0130	REPORT NA	<.0130	0.022	REPORT NA	<0.010	<0.010
Sodium	160	4.0	4.0	2.0	REPORT NA	4.9	5.2	REPORT NA	6	25.5	REPORT NA	4.26	4.39
Turbidity	1	2.7	1.6	0.7	REPORT NA	3.3	5.9	REPORT NA	0.42	0.47	REPORT NA	15.00	18
SECONDARY PARAMETERS													
Chloride	250	7.3	5.0	3.0	REPORT NA	13.6	14.3	REPORT NA	10.5	15.6	REPORT NA	8.00	9
Color	15	15	0	10	REPORT NA	5	20	REPORT NA	<5	5	REPORT NA	55.00	45
Copper	1	<0.01	<0.01	<0.01	REPORT NA	<.0050	0.165	REPORT NA	0.18	0.009	REPORT NA	<0.020	<0.020
Corrosivity	-0.2-+0.2	0.60	0.52	1.1	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	+0.09	+0.10
Iron	0.3	0.70	0.52	0.45	REPORT NA	1.07	1.75	REPORT NA	2.68	3	REPORT NA	1.598	1.260
Manganese	0.05	1.64	1.16	0.22	REPORT NA	1.63	1.44	REPORT NA	2.103	1.996	REPORT NA	1.268	1.149
Odor	3	1	1	1	REPORT NA	6	<1	REPORT NA	<1	<1	REPORT NA	4.00	8
PH (Field)	6.5 - 8.5	-----	-----	-----	REPORT NA	7.00	-----	REPORT NA	7.29	7.74	REPORT NA	6.96	7.11
PH (Lab)	6.5 - 8.5	7.6	7.6	8.1	REPORT NA	-----	7.27	REPORT NA	-----	-----	REPORT NA	7.04	7.08
Sulfate	250	2.3	3.4	3.8	REPORT NA	4.87	4.37	REPORT NA	4.91	3	REPORT NA	8.00	9
T.D. Solids	500	283	255	270	REPORT NA	325	360	REPORT NA	380	444	REPORT NA	242.00	307
Zinc	5	0.14	1.10	<0.05	REPORT NA	0.08	0.206	REPORT NA	.131	0.39	REPORT NA	1.280	0.560
OTHER PARAMETERS													
Fecal Coliform	N/A	<3	<1	<3	REPORT NA	-----	5	REPORT NA	-----	-----	REPORT NA	<1.00	<1
Nitrogen Total Kjel	N/A	0.41	0.25	<0.05	REPORT NA	-----	<0.37	REPORT NA	0.6	1.8	REPORT NA	<0.642	<0.500
Spec. Conduct. (Field)	N/A	515	440	432	REPORT NA	598	593	REPORT NA	635	-----	REPORT NA	500.00	500
Spec. Conduct. (Lab)	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	436.00	469
Temperature (Field)	N/A	22.5	24	25	REPORT NA	23.8	24.1	REPORT NA	24.3	24.1	REPORT NA	25.0	25.0
Total Organic Carbon	N/A	23.8	6.9	1.5	REPORT NA	-----	142	REPORT NA	37	4	REPORT NA	1.2	5.4
VOC PARAMETERS													
Trichloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Tetrachloroethene	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Carbon Tetrachloride	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Vinyl Chloride	0.001	BDL	-----	-----	REPORT NA	-----	.023	REPORT NA	<.001	<.001	REPORT NA	<0.001	0.002
1,1,1 Trichloroethane	0.2	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
1, 2 Dichloroethane	0.003	BDL	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Benzene	0.001	BDL	-----	-----	REPORT NA	-----	<.0005	REPORT NA	<.0005	<.0005	REPORT NA	<0.001	<0.001
Ethylene Dibromide	0.00002	<.00002	-----	-----	REPORT NA	-----	<.00002	REPORT NA	<.00002	<.00002	REPORT NA	<0.00002	<0.00002
p-Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	.005	REPORT NA	<.0005	.0028	REPORT NA	0.003	0.003
1,1 Dichloroethane	0.007	-----	-----	-----	REPORT NA	-----	<.001	REPORT NA	<.001	<.001	REPORT NA	<0.001	<0.001
Bromodichloromethane	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Bromoform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Chloroform	N/A	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
1,4 Dichlorobenzene	0.075	-----	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----	REPORT NA	-----	-----
Dibromochloromethane	N/A												
1,1 Dichloroethylene	N/A												
Tetrachloroethylene	N/A												
Trichloroethylene	N/A												
1,2 Dibromoethane	N/A												

MCL - mg/l
Analysis - mg/l
BDL - Below Detection Level

MONITOR WELL D	MCL	JANUARY	APRIL	1990 JULY	OCTOBER	JANUARY	APRIL	1991 JULY	OCTOBER	JANUARY	APRIL	1992 JULY	OCTOBER
PRIMARY PARAMETERS													
Nitrogen, Nitrate	10	0.151	0.040	0.016	<.0130	0.058	0.010	0.010	<0.050	<0.050	<0.050	<0.050	
Sodium	160	4.89	2.45	3.88	6	4.20	7.55	4.70	5.0	4.2	4.2	4.8	
Turbidity	1	50	25	51	0.42	23	6.4	74	55	45	1.3	60	
SECONDARY PARAMETERS													
Chloride	250	9	8	8	10.5	10	6.64	9	4.0	7.6	8.0	5.5	
Color	15	3	1	1	<5	1	<1	<1	-5.0	45	45	50	
Copper	1	<0.020	<0.020	<0.020	0.18	<0.020	<0.020	<0.020	<0.025	0.032	<0.025	<0.025	
Corrosivity	-0.2-+0.2	+0.03	+0.15	-1.19	-----	-----	-----	-----	+0.60	+1.2	-0.71	+0.74	
Iron	0.3	2.997	1.242	3.265	2.68	2.103	2.036	9.37	3.9	2.9	2.5	4.3	
Manganese	0.05	1.572	0.892	1.749	2.103	1.479	1.025	1.320	1.5	1.1	0.98	1.4	
Odor	3	8	2	8	<1	1	8	2	4	33	1	1	
PH (Field)	6.5 - 8.5	6.86	7.24	5.59	-----	6.89	7.12	7.04	7.4	8.3	6.8	7.7	
PH (Lab)	6.5 - 8.5	7.30	7.26	7.02	-----	-----	-----	-----	-----	-----	-----	-----	
Sulfate	250	6	6	9	4.91	9	8	8	6.0	<5.0	<5.0	<5.0	
T.D. Solids	500	324	321	332	380	262	218	320	150	250	82	380	
Zinc	5	0.781	0.184	0.257	.131	0.080	0.177	0.728	0.29	0.72	0.35	1.9	
OTHER PARAMETERS													
Fecal Coliform	N/A	<1	<1	<1	-----	<1	<1	-----	<1	<1	<1	<1	
Nitrogen Total Kjel	N/A	<0.500	0.618	0.679	0.6	0.614	0.905	0.631	0.47	0.24	0.23	0.43	
Spec. Conduct. (Field)	N/A	550	460	660	-----	448	356	567	370	450	150	610	
Spec. Conduct. (Lab)	N/A	534	450	586	-----	-----	-----	-----	-----	-----	-----	-----	
Temperature (Field)	N/A	25.0	24.5	25.0	-----	-----	-----	-----	25	21	26	27	
Total Organic Carbon	N/A	1.2	1.1	1.7	37	2.3	1.5	6.9	1.9	1.7	3.4	10	
VOC PARAMETERS													
Trichloroethene	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Tetrachloroethene	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	-----	-----	-----	
Carbon Tetrachloride	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
Vinyl Chloride	0.001	0.003	<0.001	0.007	<.001	.004	BDL	BDL	<.001	<.001	<.001	.0031	
1,1,1 Trichloroethane	0.2	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
1, 2 Dichloroethane	0.003	<0.001	<0.001	<0.001	<.001	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
Benzene	0.001	<0.001	0.001	<0.001	<.0005	BDL	BDL	BDL	<.001	<.001	<.001	<.001	
Ethylene Dibromide	0.00002	<0.00002	<0.00002	<0.00002	-----	BDL	BDL	BDL	<.00002	-----	-----	-----	
p-Dichlorobenzene	0.075	0.004	0.002	0.004	<.0005	-----	BDL	.002	.004	-----	-----	-----	
1,1 Dichloroethane	0.007	<0.001	<0.001	<0.001	<.001	-----	BDL	-----	<.001	-----	-----	-----	
Bromodichloromethane	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
Bromoform	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
Chloroform	N/A	-----	-----	-----	-----	BDL	BDL	BDL	-----	-----	-----	-----	
1,4 Dichlorobenzene	0.075	-----	-----	-----	-----	.004	.002	.004	-----	<.001	<.001	.006	
Dibromochloromethane	N/A					BDL	BDL	BDL	-----	-----	-----	-----	
1,1 Dichloroethylene	N/A									<.001	<.001	<.00002	
Tetrachloroethylene	N/A									<.001	<.001	<.001	
Trichloroethylene	N/A									<.001	<.001	<.001	
1,2 Dibromoethane	N/A									<.00002	<.00002	<.001	

(4)

SURVEYS 60 & 80 ACRE LANDFILL SITES



COUNTY COMMISSIONERS

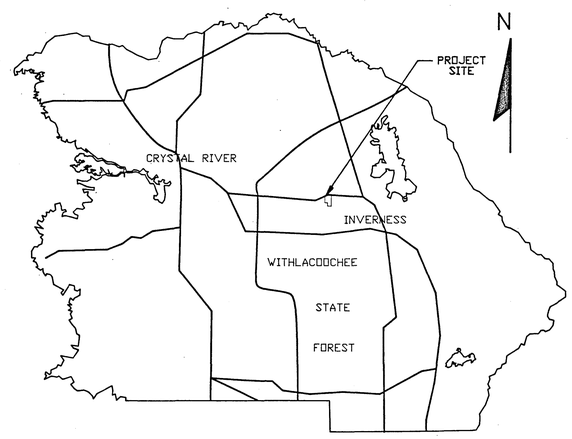
CHESTER WHITE, CHAIRMAN
GARY BARTELL, 1st VICE CHAIRMAN
WILBUR LANGLEY, 2nd VICE CHAIRMAN
NICK BRYANT, COMMISSIONER
DAVID LANGER, COMMISSIONER

COUNTY ADMINISTRATOR

ANTHONY L. SHOEMAKER

COUNTY ENGINEER

JAMES W. PINKERTON, P.E.



LOCATION MAP

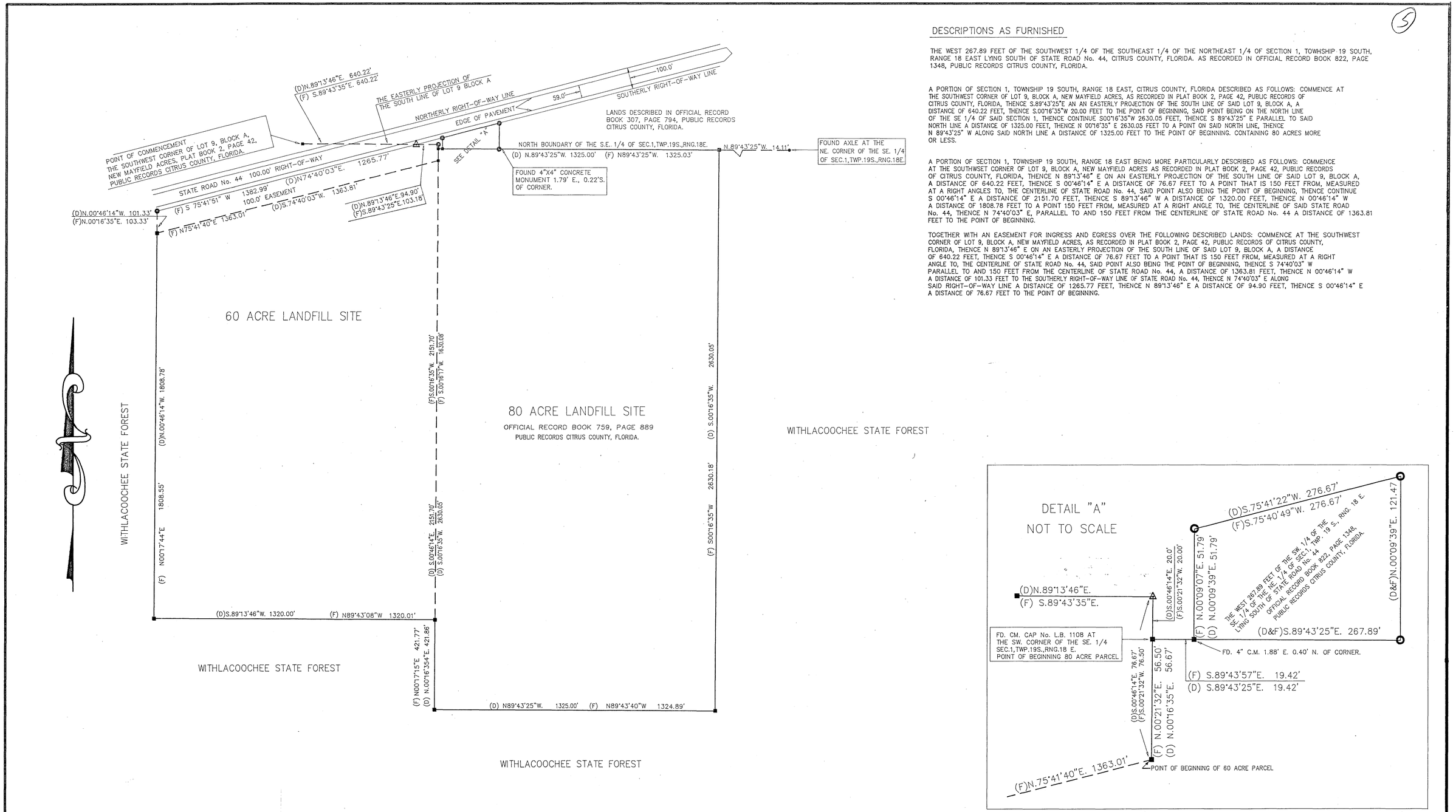
PREPARED BY

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
ENGINEERING DIVISION

CITRUS COUNTY
Florida's Little Giant
EST. 1887
FLORIDA

PROJECT NO. 89-615

INDEX OF SHEETS



DESCRIPTIONS AS FURNISHED

THE WEST 267.89 FEET OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 1, TOWHSHIP 19 SOUTH, RANGE 18 EAST LYING SOUTH OF STATE ROAD No. 44, CITRUS COUNTY, FLORIDA. AS RECORDED IN OFFICIAL RECORD BOOK 822, PAGE 1348, PUBLIC RECORDS CITRUS COUNTY, FLORIDA.

A PORTION OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWEST CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES, AS RECORDED IN PLAT BOOK 2, PAGE 42, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, THENCE S.89°43'25"E AN AN EASTERLY PROJECTION OF THE SOUTH LINE OF SAID LOT 9, BLOCK A, A DISTANCE OF 640.22 FEET, THENCE S.00°16'35"W 20.00 FEET TO THE POINT OF BEGINNING, SAID POINT BEING ON THE NORTH LINE OF THE SE 1/4 OF SAID SECTION 1, THENCE CONTINUE S00°16'35"W 2630.05 FEET, THENCE S 89°43'25" E PARALLEL TO SAID NORTH LINE A DISTANCE OF 1325.00 FEET, THENCE N 00°16'35" E 2630.05 FEET TO A POINT ON SAID NORTH LINE, THENCE N 89°43'25" W ALONG SAID NORTH LINE A DISTANCE OF 1325.00 FEET TO THE POINT OF BEGINNING. CONTAINING 80 ACRES MORE OR LESS.

A PORTION OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHWSET CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES AS RECORDED IN PLAT BOOK 2, PAGE 42, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, THENCE N 89°13'46" E ON AN EASTERLY PROJECTION OF THE SOUTH LINE OF SAID LOT 9, BLOCK A, A DISTANCE OF 640.22 FEET, THENCE S 00°46'14" E A DISTANCE OF 76.67 FEET TO A POINT THAT IS 150 FEET FROM, MEASURED AT A RIGHT ANGLES TO, THE CENTERLINE OF STATE ROAD No. 44, SAID POINT ALSO BEING THE POINT OF BEGINNING, THENCE CONTINUE S 00°46'14" E A DISTANCE OF 2151.70 FEET, THENCE S 89°13'46" W A DISTANCE OF 1320.00 FEET, THENCE N 00°46'14" W A DISTANCE OF 1808.78 FEET TO A POINT 150 FEET FROM, MEASURED AT A RIGHT ANGLE TO, THE CENTERLINE OF SAID STATE ROAD No. 44, THENCE N 74°40'03" E, PARALLEL TO AND 150 FEET FROM THE CENTERLINE OF STATE ROAD No. 44 A DISTANCE OF 1363.81 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER THE FOLLOWING DESCRIBED LANDS: COMMENCE AT THE SOUTHWEST CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES, AS RECORDED IN PLAT BOOK 2, PAGE 42, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA, THENCE N 89°13'46" E ON AN EASTERLY PROJECTION OF THE SOUTH LINE OF SAID LOT 9, BLOCK A, A DISTANCE OF 640.22 FEET, THENCE S 00°46'14" E A DISTANCE OF 76.67 FEET TO A POINT THAT IS 150 FEET FROM, MEASURED AT A RIGHT ANGLE TO, THE CENTERLINE OF STATE ROAD No. 44, SAID POINT ALSO BEING THE POINT OF BEGINNING, THENCE S 74°40'03" W PARALLEL TO AND 150 FEET FROM THE CENTERLINE OF STATE ROAD No. 44, A DISTANCE OF 1363.81 FEET, THENCE N 00°46'14" W A DISTANCE OF 101.33 FEET TO THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD No. 44, THENCE N 74°40'03" E ALONG SAID RIGHT-OF-WAY LINE A DISTANCE OF 1265.77 FEET, THENCE N 89°13'46" E A DISTANCE OF 94.90 FEET, THENCE S 00°46'14" E A DISTANCE OF 76.67 FEET TO THE POINT OF BEGINNING.

NOTES

1. THIS SURVEY IS OF VISIBLE SURFACE FEATURES ONLY, UNDERGROUND ENCROACHMENTS, IF ANY, WERE NOT LOCATED.
2. THIS SURVEY IS BASED ON EXISTING MONUMENTATION FOUND IN PLACE, RECORDS OF WHICH ARE MAINTAINED IN THIS OFFICE
3. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR DEED, EASEMENTS OR RIGHTS-OF-WAY OF RECORD
4. UNLESS OTHERWISE SHOWN, ALL FIELD TIES ARE AT RIGHT ANGLES TO PROPERTY LINES.
5. ANY FLOOD INFORMATION IS SCALED FROM THE FLOOD INFORMATION RATE MAP FURISED BY THE FEDERAL EMERGENCYMANAGEMENT AGENCY.
6. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALE DATA.
7. REFERENCE BENCHMARK FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK N> 54, ELEVATION 115.05'
8. THERE ARE INTERAL IMPROVEMENTS THAT WAS NOT LOCATED BY THIS SURVEY
9. BEARINGS ARE BASED ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, AS SHOWN ON A SURVEY BY HENIGAR AND RAY ENGINEERING ASSOC. DATED AUGUST 15, 1985.

LEGEND

(P) = PLAT DISTANCE / BEARING
(F) = FIELD DISTANCE / BEARING
(D) = DESCRIPTION DISTANCE / BEARING
P.O.B. = POINT OF BEGINNING
P.R.C.C.F. = PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA
P.O.C. = POINT OF COMMENCEMENT
O.R.B. = OFFICAL RECORD BOOK
P.B. = PLAT BOOK
■ = FOUND 4"X4" CONCRETE MONUMENT NO IDENTIFICATION UNLESS OTHER WISE SHOWN
□ = SET CONCRETE MONUMENT
△ = DESCRIPTIVE POINT
◉ = FOUND IRON ROD NO IDENTIFICATION UNLESS OTHER WISE SHOWN.
O = SET 5/8" IRON ROD CITRUS COUNTY CAP
T.B.M. = TEMPORARY BENCHMARK

SURVEYOR'S CERTIFICATION

I hereby certify to the best of my knowledge, information and belief and my professional opinion, that the herein described land survey and plat, is true and correct and was prepared under my direction and supervision, and conforms to the minimum technical standards set forth by the Florida Board of Professional Land Surveyors in Chapter 21HH-6, Florida Administrative Code pursuant to Section 472.027, Florida Statutes

Dated this 19 day of OCTOBER 1992

Patrick L. Henson Florida Registered Surveyor's No. 4547
Not valid without an original signature and seal.

Citrus County

Department of Technical Services
Division of Engineering

A BOUNDARY AND TOPOGRAPHIC SURVEY FOR
CITRUS COUNTY, FLORIDA
OF PROPERTY IN THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA.

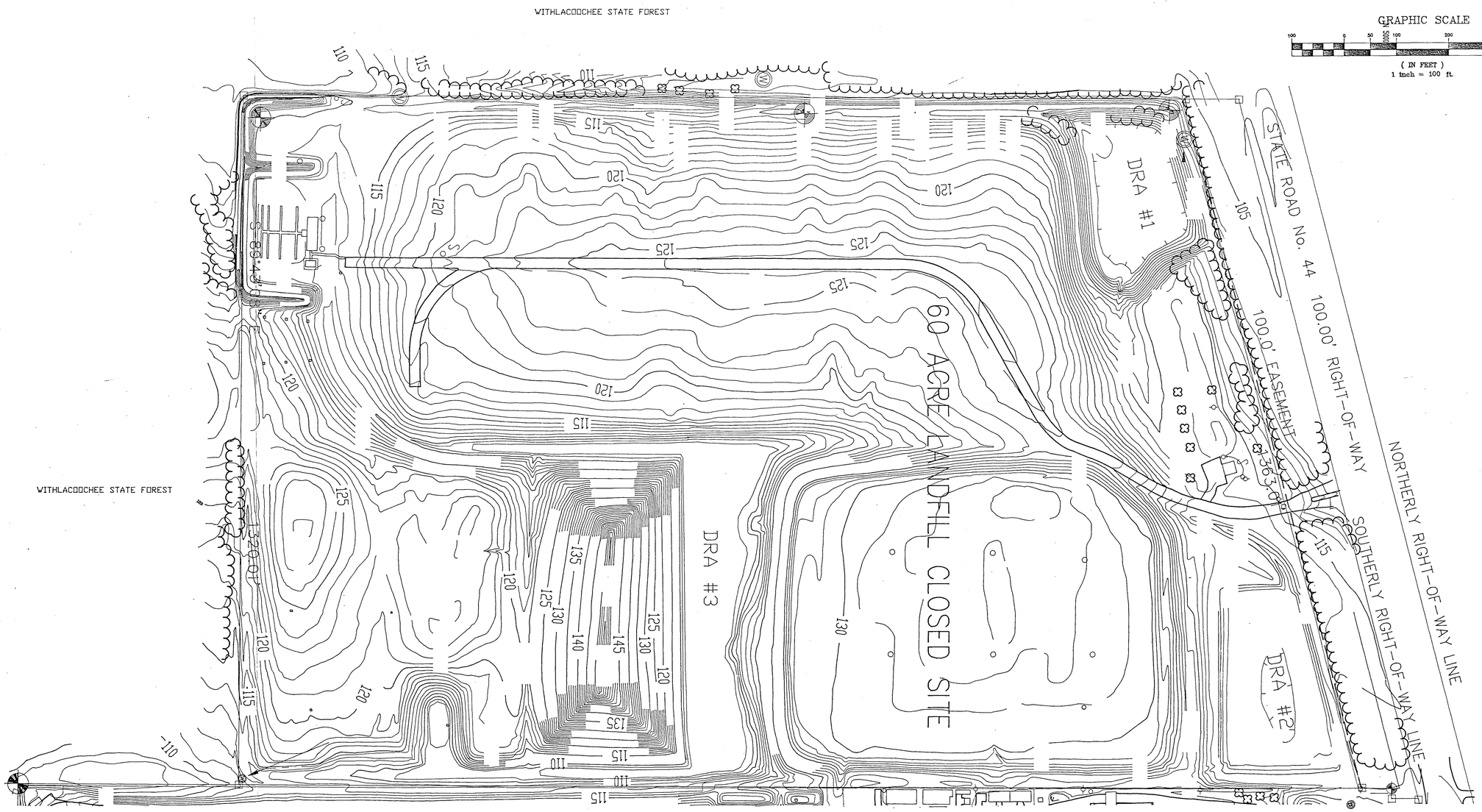
Drawn by: P.L.H.	Field Book: 8-B
Approved by: P.L.H.	Pages: 14-18
Field Date: JUNE 16, 1992	Proj. No. 89-615
Scale: 1" = 200'	Sheet No. 2 OF 4
Sec. 1 Twp. 19S Rng. 18E	

P.O. BOX 440 Lecanto, FL. 32661
Phone: (904)746-2694

SCALE:1"=100'

GRAPHIC SCALE

(IN FEET)
1 inch = 100 ft.



NOTES

1. REFERENCE BENCHMARK FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMART No. 54 ELEVATION 115.05'

			REVISIONS		
BY		BY		BY	
DATE		DATE		DATE	
BY		BY		BY	
DATE		DATE		DATE	

	PRELIMNARY		DESIGN	
	BY	DATE	BY	DATE
DRAWN				
DESIGNED				
CHECKED				

DEPARTMENT OF TECHNICAL SERVICES
CITRUS COUNTY, FLORIDA
ENGINEERING DEPARTMENT

APPROVED BY: OLV
DATE 10-19-92

60 ACRE CLOSED
LANDFILL
TOPOGRAPHIC SURVEY

SECTION 1 TOWNSHIP 19 RANGE 18

PROJECT NUMBER 89-615

SCALE 1"=100'

SHEET 3 OF 4

FILE: L60-SURV

7

SCALE:1"=100'

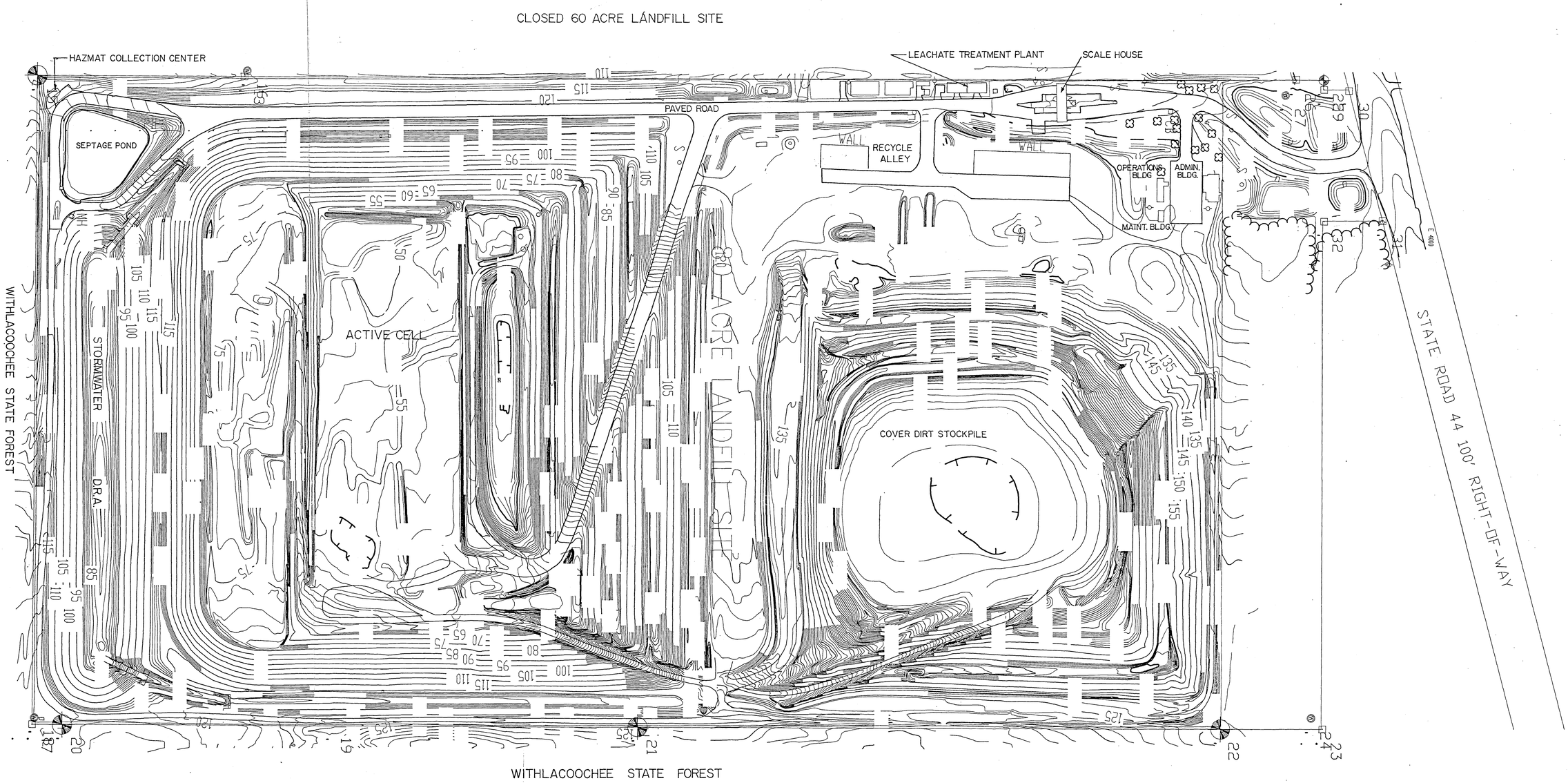
GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.

NOTES

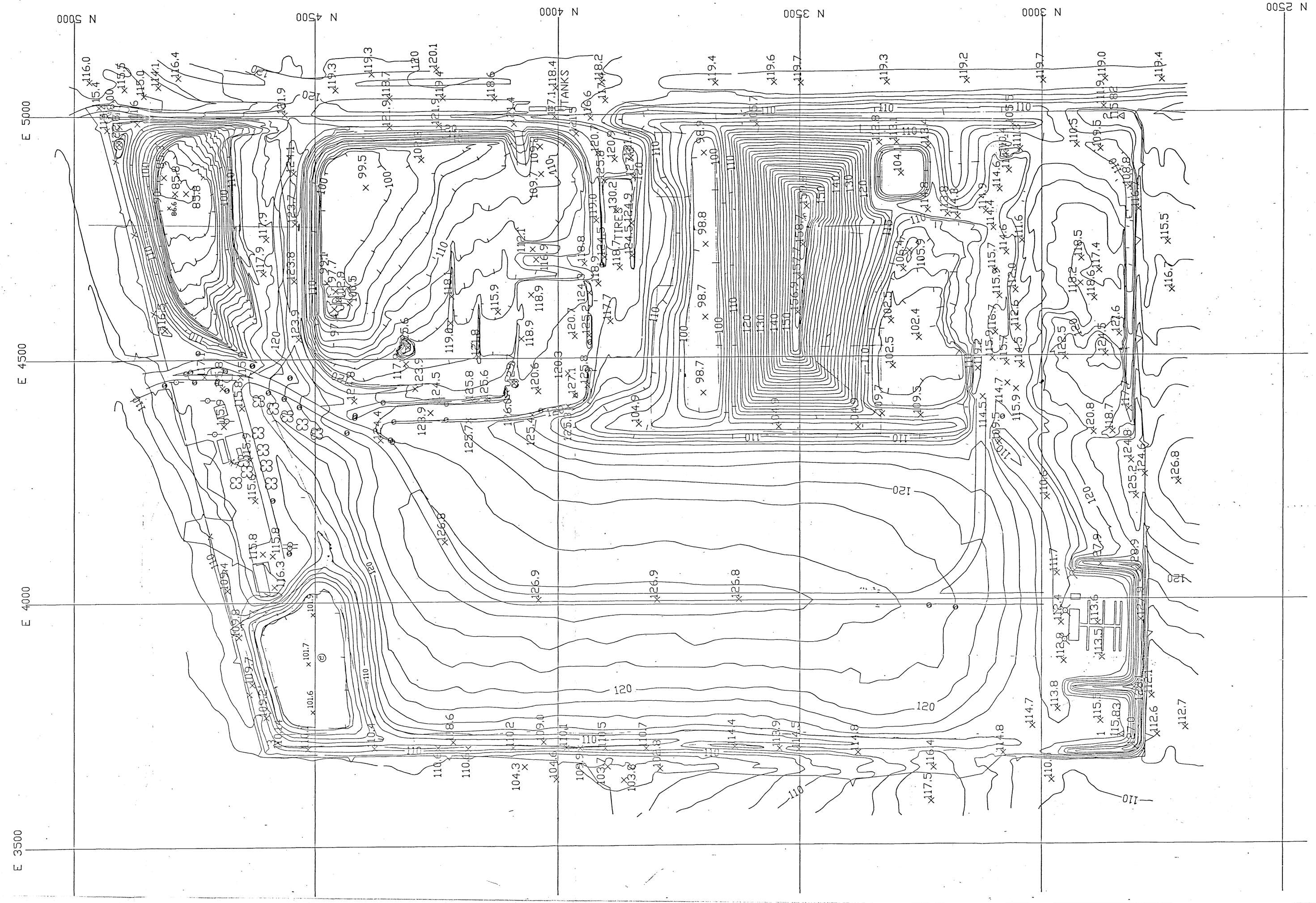
1. REFERENCE BENCHMARK FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMART No. 54 ELEVATION 115.05'



			REVISIONS				PRELIMNARY		DESIGN		DEPARTMENT OF TECHNICAL SERVICES CITRUS COUNTY, FLORIDA ENGINEERING DEPARTMENT	APPROVED BY:	80 ACRE ACTIVE LANDFILL TOPOGRAPHIC SURVEY	PROJECT NUMBER	SHEET 4
BY		BY		BY			BY	DATE	BY	DATE				89-615	OF
DATE		DATE		DATE		DRAWN						DATE 10-19-92	SECTION 1 TOWNSHIP 19 RANGE 18	SCALE	4
BY		BY		BY		DESIGNED								1"=100'	FILE: L60-SURV
DATE		DATE		DATE		CHECKED									

CITRUS COUNTY LANDFILL
- (ERC)
AS BUILT PHASE 1
CLOSURE 29 MARCH 1990

8



BEST AVAILABLE COPY

(9)

CITRUS COUNTY
CENTRAL LANDFILL
TOPOGRAPHIC SURVEY
DATED 7/31/92