

February 2, 2011

Ms. Susan Pelz, P.E.  
Program Manager, Solid Waste  
Department of Environmental Protection  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Dept. of Environmental  
Protection

FEB 03 2011

Southwest District

**Re: Southeast County Landfill  
Hillsborough County, Florida  
Completion Reports for Monitoring Wells TH-72 and TH-73**

Dear Susan:

On behalf of the Hillsborough County Solid Waste Management Division (SWMD), HDR submits this letter to provide the monitoring well completion reports and details to the Florida Department of Environmental Protection (Department) regarding the installation of monitoring wells TH-72 and TH-73 at the Southeast County Landfill (SCLF).

TH-72 and TH-73 were installed in accordance with the Initial Assessment Monitoring Plan for the sinkhole at the SCLF dated December 22, 2010. FDEP Form 62-701.900(30) is attached for TH-72 and TH-73 as well as a report of survey for both wells from Pickett and Associates, Inc. and well construction details for the final installation.

Please call me at 813-270-8058 if you have any questions or require additional information regarding the attached monitoring well completion reports.

Sincerely,  
**HDR ENGINEERING, INC.**



Richard A. Siemering  
Solid Waste Section Manager

Attachment (7 pages)

cc: Patricia Berry, SWMD  
David Adams, SWMD  
Larry Ruiz, SWMD





# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3), F.A.C.

## MONITORING WELL COMPLETION REPORT

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FEB 03 2011  
SOUTHWEST DISTRICT  
TAMPA

DATE: January 31, 2011

FACILITY NAME: Hillsborough County SCLF

DEP PERMIT NO.: 35435-014-SO/01

WACS FACILITY ID NO.: SWD/29/41193

WACS MONITORING SITE NUM.: 27753

WACS WELL NO.: TH-72

WELL TYPE: BACKGROUND ☐

DETECTION ☒

COMPLIANCE ☐

LATITUDE: 27° 46' 35.19" LONGITUDE: 82° 11' 19.13"

(see back for LAT / LONG requirements):

Coordinate Accuracy H=0.1ft, V=0.01ft Datum NAD'83 ('90-Adj) Elevation Datum NGVD'29

Collection Method Conventional and RTK/GPS Collection Date 1/18/2011

Collector Name Gregory A. Prather, PSM Collector Affiliation Pickett Surveying & Photography

AQUIFER MONITORED: Floridan

DRILLING METHOD: Sonic with continuous core sampling DATE INSTALLED: 1/13/2011

INSTALLED BY: Groundwater Protection, A Division of DRILLPRO, LLC

BORE HOLE DIAMETER: 6 inch TOTAL DEPTH: 185 feet (BLS)

CASING TYPE: Sch 40 PVC CASING DIAMETER: 2 inch CASING LENGTH: 170 feet

SCREEN TYPE: Sch 40 PVC SCREEN SLOT SIZE: 0.010 inch SCREEN LENGTH: 15 feet

SCREEN DIAMETER: 2 inch SCREEN INTERVAL: 170 feet TO 185 feet (BLS)

FILTER PACK TYPE: Silica Sand FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 167.5 feet TO 185 feet (BLS)

SEALANT TYPE: Bentonite/Sand SEALANT INTERVAL: 163 feet TO 167.5 feet (BLS)

GROUT TYPE: Portland Cement GROUT INTERVAL: Land Surface TO 163 feet (BLS)

TOP OF CASING ELEVATION (NGVD): 130.96 ft. GROUND SURFACE ELEVATION (NGVD): 128.36 ft

DESCRIBE WELL DEVELOPMENT: Pumped at 3.5 GPM for 1.5 hour, turbidity went from 438 to 12.6 NTU

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 118 feet BLS

DATE AND TIME MEASURED: 1/14/2011 17:05

REMARKS: Sealant = 1 bag Bentonite chips 163' to 166', 1 bag 30/65 silica sand 166' to 167.5'

Filter Sand: 20.5 bags (approximately four extra to fill vuggy area)

NAME OF PERSON PREPARING REPORT: John S. Catches, P.G. 2203; HDR Engineering, Inc;

904-598-8968; john.catches@hdrinc.com

(Name, Organization, Phone No., E-mail)

Northwest District  
160 Government Center  
Pensacola, FL 32501-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way Ste 200B  
Jacksonville, FL 32256-7590  
904-807-3300

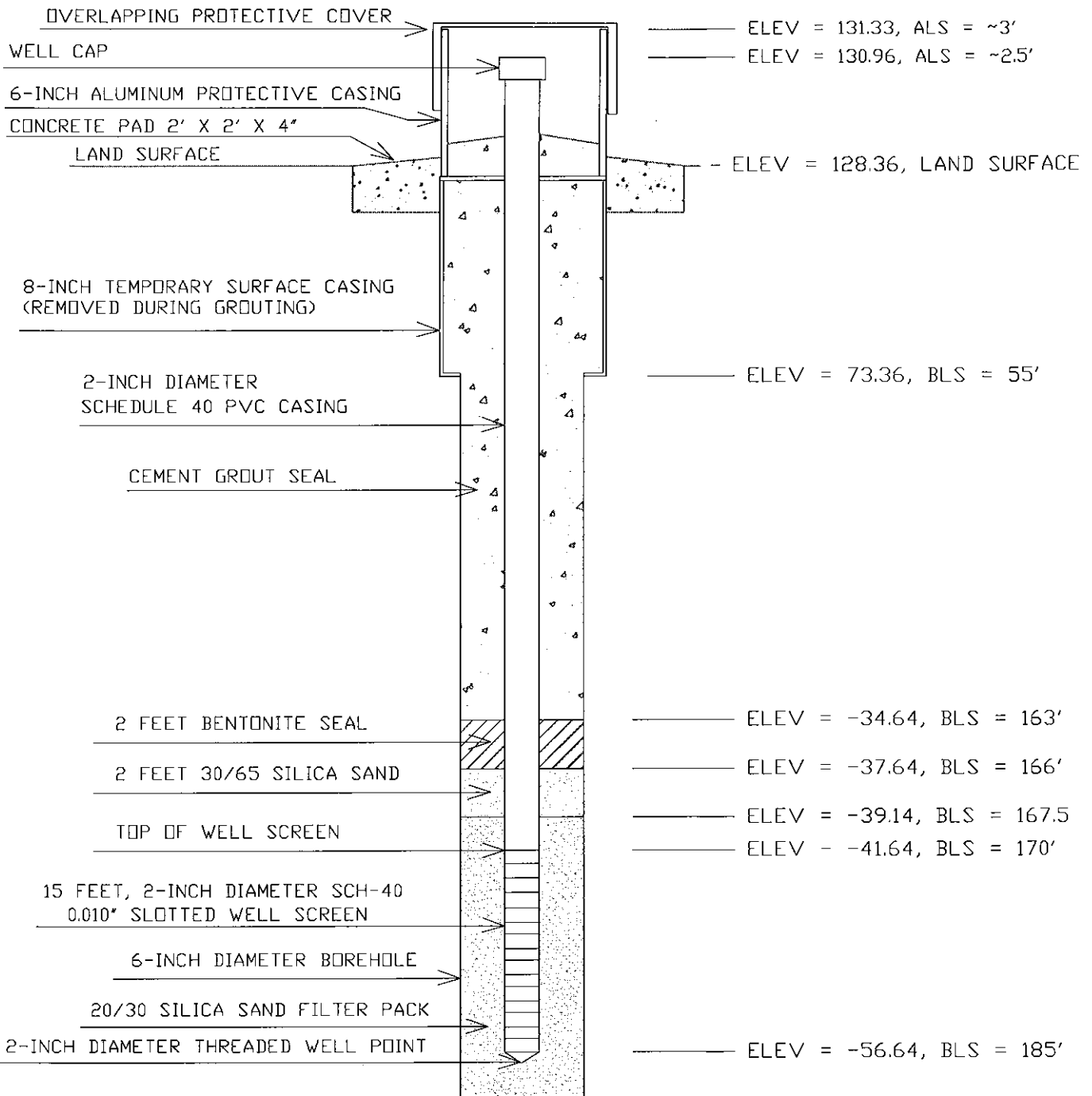
Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
13051 N. Telecom Pky.  
Temple Terrace, FL  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
239-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

TH-72



NOT TO SCALE

NOTE

ALS = ABOVE LAND SURFACE

BLS = BELOW LAND SURFACE

SOUTHEAST COUNTY LANDFILL

PUBLIC UTILITIES DEPARTMENT

SOLID WASTE MANAGEMENT DIVISION

LANDFILL & ENVIRONMENTAL SERVICES SECTION

MONITOR WELL CONSTRUCTION DETAIL DIAGRAM

GROUNDWATER MONITORING WELL TH-72



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3), F.A.C.

## MONITORING WELL COMPLETION REPORT

DATE: January 31, 2011

FACILITY NAME: Hillsborough County SCLF

DEP PERMIT NO.: 35435-014-SO/01

WACS FACILITY ID NO.: SWD/29/41193

WACS MONITORING SITE NUM.: 27754

WACS WELL NO.: TH-73

WELL TYPE: BACKGROUND ☐

DETECTION ☒

COMPLIANCE ☐

LATITUDE: 27 ° 46 ' 35.16 " LONGITUDE: 82 ° 11 ' 19.14 "

(see back for LAT / LONG requirements):

Coordinate Accuracy H=0.1ft, V=0.01ft Datum NAD'83 ('90-adj) Elevation Datum NGVD'29

Collection Method Conventional and RTK/GPS Collection Date 1/18/2011

Collector Name Gregory A. Prather, PSM Collector Affiliation Pickett & Associates, Inc.

AQUIFER MONITORED: Floridan

DRILLING METHOD: Sonic with continuous core sampling DATE INSTALLED: 1/14/2011

INSTALLED BY: Groundwater Protection, A Division of DRILLPRO, LLC

BORE HOLE DIAMETER: 6 inch TOTAL DEPTH: 40 feet (BLS)

CASING TYPE: Sch 40 PVC CASING DIAMETER: 2 inch CASING LENGTH: 25 feet

SCREEN TYPE: Sch 40 PVC SCREEN SLOT SIZE: 0.010 inch SCREEN LENGTH: 15 feet

SCREEN DIAMETER: 2 inch SCREEN INTERVAL: 25 feet TO 40 feet (BLS)

FILTER PACK TYPE: Silica Sand FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 23 feet TO 40 feet (BLS)

SEALANT TYPE: Bentonite/Sand SEALANT INTERVAL: 19 feet TO 23 feet (BLS)

GROUT TYPE: Portland : 2 bags GROUT INTERVAL: Land Surface TO 163 feet (BLS)

TOP OF CASING ELEVATION (NGVD): 131.07 ft. GROUND SURFACE ELEVATION (NGVD): 128.35 ft.

DESCRIBE WELL DEVELOPMENT: Pumped dry 1 min, allowed recovery 4 to 5 min for approximately 2 hr.

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 118 feet BLS

DATE AND TIME MEASURED: 1/14/2011 17:05

REMARKS: Sealant: 1 bag-Bentonite chips 19' to 21', 1 bag-30/65 silica sand 21' to 23'

Development: Turbidity went from >1000 to 83.5 NTU Filter Sand: 11 bags

NAME OF PERSON PREPARING REPORT: John S. Catches, P.G. 2203; HDR Engineering, Inc;

904-598-8968; john.catches@hdrinc.com

(Name, Organization, Phone No., E-mail)

Northwest District  
160 Government Center  
Pensacola, FL 32501-5794  
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904-807-3300

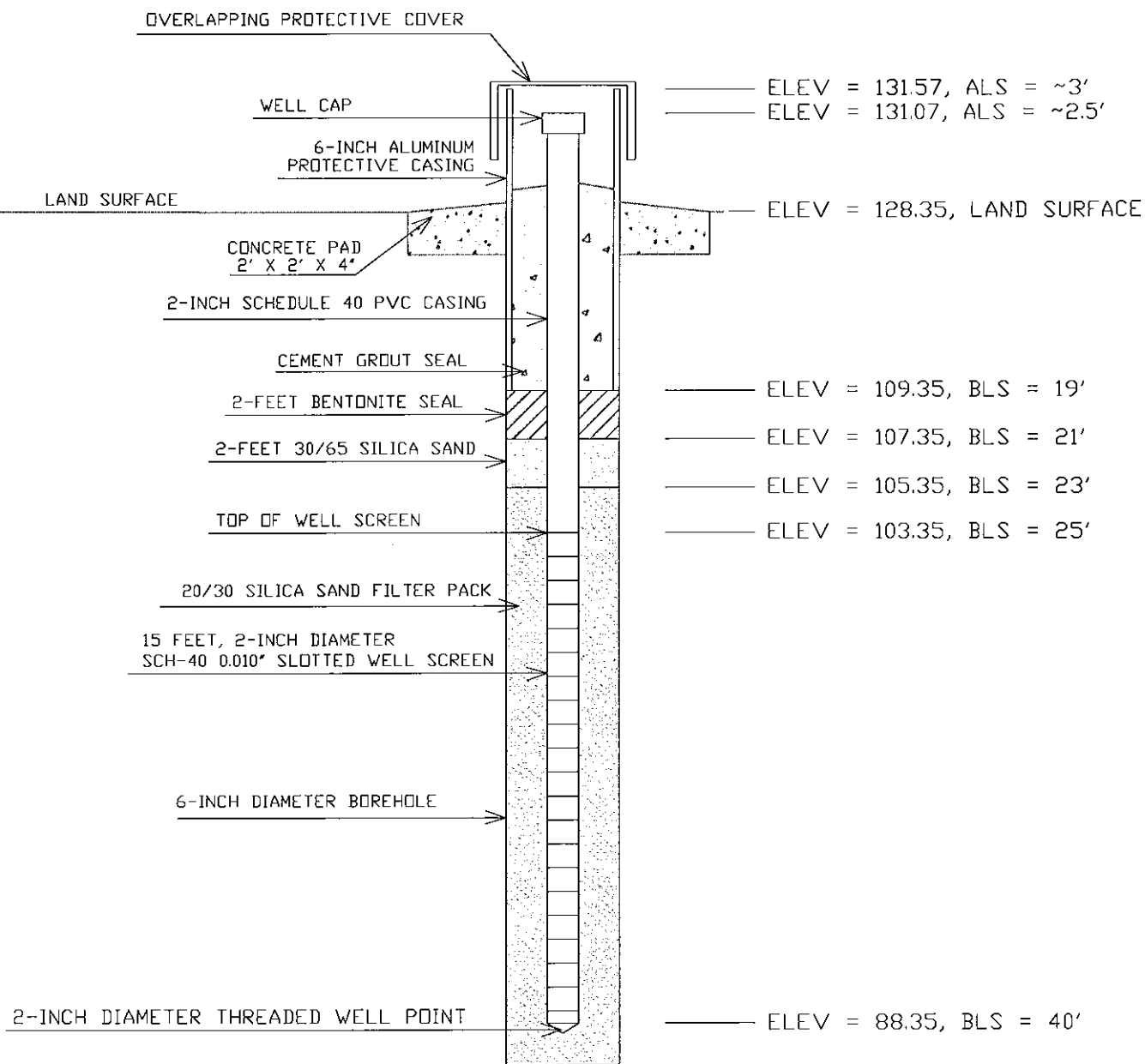
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239-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

# TH-73



NOT TO SCALE

## NOTE

ALS = ABOVE LAND SURFACE  
BLS = BELOW LAND SURFACE

SOUTHEAST COUNTY LANDFILL

PUBLIC UTILITIES DEPARTMENT

SOLID WASTE MANAGEMENT DIVISION

MANAGEMENT & ENVIRONMENTAL SERVICES SECTION

MONITOR WELL CONSTRUCTION DETAIL DIAGRAM

GROUNDWATER MONITOR WELL TH-73

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# SURVEYOR'S REPORT

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## Southeast Landfill Wells Hillsborough County, Florida

Prepared for:



Prepared by:



PICKETT & ASSOCIATES PROJECT NO.: 12131-7  
TITLE/TYPE OF SURVEY: SPECIFIC PURPOSE SURVEY  
DATE OF SURVEY: 01/18/11  
DATE OF THIS REPORT: 01/26/11

***NOTE: THIS REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL  
RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.***

**PROJECT DESCRIPTION**

The specific purpose of this project was to horizontally locate wells TH-72 and TH-73 and determine the ground elevation and top of well casing at each well.

**ACCURACY STATEMENT**

All points have an estimated horizontal positional accuracy of 0.10' or less and a vertical positional accuracy of 0.10' or less relative to the Project Benchmark VR-B (PID AG9078) and 0.01' or less relative to the local benchmark referenced below. The latitudes and longitudes were derived using Army Corps. of Engineers (ACOE) conversion software – Corpscon version 6.0.1. All coordinates and elevations are in US Survey Feet.

**DATUM****HORIZONTAL**

North and the Coordinates are based on the West Zone of the Florida State Plane Coordinate System, NAD 83 1990 adjustment and are based upon provided control referenced to Hillsborough County Horizontal Control Monuments LW-H (PID AG8963) and BY-E (PID AG8747).

**VERTICAL**

Elevations are to National Geodetic Vertical Datum of 1929 (NGVD29) and are based upon provided control referenced to Hillsborough County Horizontal Control Monument VR-B (PID AG9078), elevation is 103.08' from Hillsborough County's Vertical Control Network.

**METHODS**

To obtain the horizontal data for the wells, two temporary 60d nails were set for temporary control points. Coordinate values for these temporary control points were established with Real Time Kinematic (RTK) technology. A Trimble 5600 total station was used to establish coordinates for the wells using the 60d nails. Elevations for these points were established with conventional leveling from a benchmark set by Pickett & Associates, Inc. in a previous control job using a Zeiss DiNi 22 digital level and three-section, wooden bar-code level rod. The benchmark is a 5/8" steel rod and cap stamped "REF. PT. LB 364", with an NGVD29 elevation of 129.71 feet.



## **PROJECT RESULTS**

### **WELLS**

#### **TH-72**

N = 1251475.68

E = 595167.12

LAT: 27° 46' 35.19" N

LONG: 82° 11' 19.13" W

Elevations:

Adjacent Ground = 128.36'

Top of Casing = 131.33'

Top of PVC = 130.96'

"X" – cut in concrete apron = 128.51'

#### **TH-73**

N = 1251472.90

E = 595166.32

LAT: 27° 46' 35.16" N

LONG: 82° 11' 19.14" W

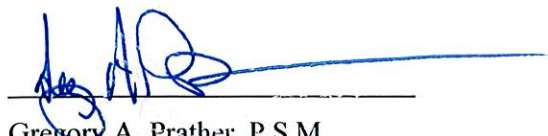
Elevations:

Adjacent Ground = 128.35'

Top of Casing = 131.57'

Top of PVC = 131.07'

"X" – cut in concrete apron = 128.54'



Gregory A. Prather, P.S.M.  
Florida Registration No. 5135  
Pickett & Associates, Inc.  
Florida Registration No. 364

1/18/11  
Survey Date