

**REQUEST FOR PROPOSALS  
WATER QUALITY SAMPLING, ANALYSIS AND REPORTING**

Notice is hereby given that the Board of County Commissioners of Santa Rosa County, Florida is soliciting proposals for Water Quality, Sampling, Analysis and Reporting services for Santa Rosa County Solid Waste Facilities located at three county owned solid waste landfills. Only properly licensed and insured contractors/consultants are invited to submit proposals.

All proposals must be in writing and delivered by hand, mail, UPS or FedEx to the Santa Rosa County Procurement Department, 6495 Caroline Street Suite J, Milton, Florida 32570, and must be received by 09:00 a.m., August 1, 2016. Secondary delivery location shall be to Suite M at the above address. Only proposals received by the aforesaid time and date will be considered. All proposals shall be sealed and clearly labeled, "**RFP# 16-049 WATER QUALITY SERVICES**". Please provide the original proposal, labeled "ORIGINAL", and SEVEN (7) copies labeled "COPY" (8 total complete packages) along with one (1) electronic file in OCR pdf format.

A Mandatory pre-bid meeting will be held 09:00 a.m., July 13, 2016 at the Santa Rosa County Environmental Department, located at 6065 Old Bagdad Highway, Milton, FL 32583. All interested parties are invited to attend. Only those businesses represented may participate in the bid.

Specifications may be secured from the Santa Rosa County Procurement Department, at the address provided above [Telephone (850) 983-1870], or by download from the Santa Rosa County Website ([www.santarosa.fl.gov/bids/openbids.html](http://www.santarosa.fl.gov/bids/openbids.html)). Questions concerning this proposal should be directed to Mr. Julian Coeey or Mr. Ron Hixson at 850-981-7135.

The Board of County Commissioners reserves the right to accept or reject any and all proposals in whole or in part and to waive all informalities and to award the proposal that it determines to be in the best interest of Santa Rosa County. Santa Rosa County does not discriminate on the basis of race, color, national origin, sex, religion, age, or handicapped status in employment or provision of service.

By order of the Board of County Commissioners of Santa Rosa County, Florida

**LEGAL NOTICE**

One Issue – June 29, 2016 – Press Gazette, June 30, 2016 Navarre Press, June 30, 2016 – Gulf Breeze News, July 1, 2016 - South Santa Rosa News

Bill and Proof of Publication to Santa Rosa County Procurement Department, Attention: Dave King, 6495 Caroline Street, Suite J, Milton, Florida 32570

**WATER QUALITY SAMPLING, ANALYSIS AND REPORTING FOR  
SANTA ROSA COUNTY SOLID WASTE DISPOSAL FACILITIES**

**PROJECT MANUAL**



**Board of County Commissioners  
Santa Rosa County, Florida**

**Santa Rosa County Procurement Department  
6495 Caroline Street, Suite J  
Milton, Florida 32583  
(850) 983-1870**

**July 2016**

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INVITATION TO BID

**WATER QUALITY SAMPLING, ANALYSIS AND REPORTING FOR SANTA ROSA COUNTY SOLID WASTE DISPOSAL FACILITIES**

*Only properly licensed contractors/consultants are invited to bid on the Water Quality Sampling, Analysis, and Reporting Project. This work includes performing water quality services at three county owned solid waste landfills.*

*All bids must include prices. Unit prices must be submitted for comparison and payment purposes.*

*All proposals must be in writing and delivered by hand, mail, or Fed EX to the Santa Rosa County Procurement Department, 6495 Caroline Street Suite J, Milton Florida 32570, and must be received by 09:00 a.m., August 1, 2016. Only proposals received by the aforesaid time and date and from qualified licensed contractors will be considered. All proposals shall be sealed and clearly labeled, "RFP#16-049 WATER QUALITY SERVICES" Please provide the original proposal, labeled "ORIGINAL", and SEVEN (7) copies labeled "COPY" (8 total complete packages) along with ONE (1) electronically in OCR pdf format.*

*Bid documents, including drawings and specification relative thereto may be inspected at the Santa Rosa County Procurement Department, 6495 Caroline Street, Suite J, Milton, Florida, and downloaded online at <http://santarosa.fl.gov/bids/openbids.html>*

*A MANDATORY Pre-Bid Meeting will be held on 09:00 A.M., July 13, 2016, to address any clarifications and answer any questions at the Santa Rosa County Environmental Department, located at 6065 Old Bagdad Highway, Milton FL 32583. Questions concerning this project should be directed to Julian Coe or Ron Hixson at (850) 981-7135.*

*Each bid shall be submitted on the bid form shown, and must be accompanied by a Certified Check or bid Bond in the amount of five percent (5%) of the Base Bid, and copies of appropriate licenses. Such Bid Bond or Check is given with the understanding and agreement that it guarantees: (1) that the bidder will not withdraw his bid for a period of 60 days after the bids have been opened; and, (2) that if his bid is accepted, the Bidder will enter into the written Contract with Santa Rosa County and furnish the required Performance Bond Payment Bond Insurance Certificates, within 10 days after receipt of Notice of Award of his bid. Pursuant to Florida Statutes, Section 255.05, should the contract exceed \$100,000, the Contractor shall be required to execute and record the performance and payment bonds. The bonds must state the name and principal business address of both the principal and the surety and a description of the project sufficient to identify it. In the event the bidder fails to comply with any of these conditions and requirements in whole or in part, the full amount of the bond or check shall be automatically forfeited to Santa Rosa County as damages on account of the default of the bidder.*

*The County reserves the right to waive informalities in bids, to reject any or all bids with or without cause and to accept the bid that in its judgment is in the best interest of Santa Rosa County, Florida.*

*The Contract form shall be provided by the County Attorney.*

SECTION 00130 - BID FORM

(To be copied by the Bidder on his own letterhead and submitted in triplicate.)

TO: Santa Rosa County Procurement Department  
6495 Caroline Street, Suite J  
Milton, Florida 32570

REFERENCE: **REQUEST FOR PROPOSALS – WATER QUALITY SAMPLING, ANALYSIS,  
AND REPORTING**

Gentlemen:

I have received the Bidding Documents consisting of Drawings and Specifications (Project Manual) entitled **WATER QUALITY SAMPLING, ANALYSIS, AND REPORTING**, prepared by Santa Rosa County Environmental Department, 6065 Old Bagdad Highway, Milton, Florida 32583, (850) 981-7135.

I have also received Addenda Numbers \_\_\_\_\_  
and have included their provisions in my Bid. I have examined both the Bidding Documents and the site.

In submitting the Bid, I agree:

1. To hold my bid in full force and effect for a period of sixty (60) calendar days after the time of the opening of this Bid.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Guarantee.
3. To enter into and execute a Contract within 10 (ten) calendar days after said Contract is delivered to me, if awarded on the basis of this Bid.
4. To accomplish the work in accordance with the Contract Documents.
5. To commence work under this Contract on or before a date to be specified in written "Notice of Proceed" by the Environmental Department Manager.
6. To pay as liquidated damages, the sum of \$1000.00 for each consecutive calendar day after completion date, as called for in the Contract Agreement as modified.

I will perform the requirements for field sampling, laboratory analysis, and data compilation in this project for the lump sum price of (from TABLE 1):

\_\_\_\_\_ (\$ \_\_\_\_\_)

**TABLE 1  
ANNUAL FIELD SAMPLING AND LABORATORY ANALYSIS**

<b>LANDFILL</b>	<b>TOTAL ANNUAL LUMP-SUM PRICE</b>
<b>Central Landfill Class I</b>	
Semi-Annual Field Sampling (Two (2) Events/Year)	
Semi-Annual Laboratory Analysis (Two (2) Events/Year)	
Compilation / submission of data to County	
<b>Holley Landfill</b>	
Semi-Annual Field Sampling (Two (2) Events/Year)	\$
Semi-Annual Laboratory Analysis (Two (2) Events/Year)	
Compilation / submission of data to County	
<b>Santa Rosa Class III Landfill</b>	
Semi-Annual Field Sampling (Two (2) Events/Year)	\$
Semi-Annual Laboratory Analysis (Two (2) Events/Year)	
Compilation / submission of data to County	
<b>TOTAL <u>ANNUAL</u> LUMP SUM PRICE</b>	\$

FIRM: \_\_\_\_\_

BY (print): \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

MAILING ADDRESS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PHONE: (\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_) \_\_\_\_\_

EMAIL: \_\_\_\_\_

END OF SECTION 00130

**SANTA ROSA COUNTY**  
**BOARD OF COUNTY COMMISSIONERS**  
**INSURANCE REQUIREMENTS**

**INSURANCE REQUIREMENTS**

- (1) THE CONTRACTOR SHALL OBTAIN AND MAINTAIN SUCH INSURANCE AS WILL PROTECT IT FROM: (1) CLAIMS UNDER WORKER'S COMPENSATION LAWS, DISABILITY BENEFIT LAWS, OR OTHER SIMILAR EMPLOYEE BENEFIT LAWS; (2) CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, OCCUPATIONAL SICKNESS OR DISEASE OR DEATH OF HIS EMPLOYEES INCLUDING CLAIMS INSURED BY USUAL PERSONAL INJURY LIABILITY COVERAGE; (3) CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, SICKNESS OR DISEASE, OR DEATH OF ANY PERSON OTHER THAN HIS EMPLOYEES INCLUDING CLAIMS INSURED BY USUAL PERSONAL INJURY LIABILITY COVERAGE; AND (4) FROM CLAIMS FOR INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY INCLUDING LOSS OR USE RESULTING THEREFROM - - ANY OR ALL OF WHICH CLAIMS MAY ARISE OUT OF, OR RESULT FROM, THE SERVICES, WORK AND OPERATIONS CARRIED OUT PURSUANT TO AND UNDER THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER SUCH SERVICES, WORK AND OPERATIONS BE BY THE CONTRACTOR, ITS EMPLOYEES, OR BY SUBCONTRACTOR(S), OR ANYONE EMPLOYED BY OR UNDER THE SUPERVISION OF ANY OF THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LEGALLY LIABLE.
- (2) THIS INSURANCE SHALL BE OBTAINED AND WRITTEN FOR NOT LESS THAN THE LIMITS OF LIABILITY SPECIFIED HEREINAFTER, OR AS REQUIRED BY LAW, WHICHEVER IS GREATER.
- (3) THE CONTRACTOR SHALL REQUIRE, AND SHALL BE RESPONSIBLE FOR ASSURING THROUGHOUT THE TIME THE AGREEMENT IS IN EFFECT, THAT ANY AND ALL OF ITS SUBCONTRACTORS OBTAIN AND MAINTAIN UNTIL THE COMPLETION OF THAT SUBCONTRACTOR'S WORK, SUCH OF THE INSURANCE COVERAGES DESCRIBED HEREIN AS ARE REQUIRED BY LAW TO BE PROVIDED ON BEHALF OF THEIR EMPLOYEES AND OTHERS.
- (4) THE CONTRACTOR SHALL REQUIRE THE INSURANCE AGENT/BROKER TO PROVIDE REPLACEMENT CERTIFICATES OF INSURANCE ON A TIMELY BASIS, PREFERABLY NO LATER THAN FIVE (5) DAYS PRIOR TO POLICY TERMINATION.
- (5) THE CONTRACTOR SHALL OBTAIN AND MAINTAIN THE FOLLOWING INSURANCE COVERAGES AS PROVIDED HEREIN BEFORE, AND IN THE TYPE, AMOUNTS AND IN CONFORMANCE WITH THE FOLLOWING MINIMUM REQUIREMENTS:

A. FLORIDA STATUTORY WORKERS' COMPENSATION AND EMPLOYERS LIABILITY WITH MINIMUM LIMITS OF \$500,000, WHETHER REQUIRED BY CHAPTER 440, FLORIDA STATUTES OR NOT. IN ADDITION, COVERAGE UNDER THE U. S. LONGSHOREMEN & HARBOR WORKERS' AND JONES ACT, MAY BE REQUIRED COVERAGES BY LAW OR REGULATION FOR THE WORK SPECIFIED IN THIS CONTRACT. CONTRACTOR AND SUBCONTRACTORS MAY PROVIDE A VALID CERTIFICATE OF EXEMPTION ISSUED BY THE STATE OF FLORIDA IN LIEU OF WORKERS' COMPENSATION INSURANCE COVERAGE.

B. COMMERCIAL GENERAL LIABILITY WITH MINIMUM COMBINED SINGLE LIMITS OF \$1,000,000, INCLUDING COVERAGE PARTS OF BODILY INJURY, BROAD FORM PROPERTY DAMAGE, PERSONAL INJURY, INDEPENDENT CONTRACTORS, BLANKET CONTRACTUAL LIABILITY AND PRODUCTS AND COMPLETED OPERATIONS. THE EXCLUSION FOR UNDERGROUND DAMAGE, EXPLOSION AND COLLAPSE SHALL BE REMOVED THROUGH A POLICY ENDORSEMENT. THE COMMERCIAL GENERAL LIABILITY POLICY'S TOTAL POLLUTION EXCLUSION SHALL BE REMOVED BY ENDORSEMENT. COMPLETED OPERATIONS AND PRODUCTS LIABILITY SHALL BE MAINTAINED FOR A PERIOD OF TWO (2) YEARS AFTER FINAL PAYMENT.

C. AUTOMOBILE LIABILITY WITH MINIMUM COMBINED SINGLE LIMITS OF \$1,000,000 FOR ALL HIRED, OWNED AND NON-OWNED VEHICLES. THE AUTOMOBILE LIABILITY POLICY'S TOTAL POLLUTION EXCLUSION SHALL BE REMOVED BY ENDORSEMENT.

D. EXCESS OR UMBRELLA LIABILITY WITH MINIMUM LIMITS OF \$2,000,000 WHICH ARE NO MORE RESTRICTIVE THAN THE UNDERLYING LIMITS. UMBRELLA COVERAGE SHALL DROP DOWN TO PROVIDE COVERAGE WHERE THE UNDERLYING LIMITS ARE EXHAUSTED. THE UMBRELLA POLICY SHALL MIRROR THE COMMERCIAL GENERAL AND AUTOMOBILE POLICIES' COVERAGE WITH RESPECT TO REMOVAL OF THE TOTAL POLLUTION EXCLUSION.

E. PROFESSIONAL LIABILITY INSURANCE WITH MINIMUM LIMITS OF \$500,000 FOR ENGINEERS AND ARCHITECTS EMPLOYED BY THE CONTRACTOR, IF ANY.

F. BUILDERS RISK INSURANCE UNDERWRITTEN ON THE "ALL RISKS OF PHYSICAL LOSS" BASIS FOR REPLACEMENT COST FOR THE FULL VALUE OF THE COMPLETED PROJECT TO COVER THE OWNER AND CONTRACTOR AS THEIR INTEREST MAY APPEAR. AN INSTALLATION FLOATER MAY BE AN ALTERNATIVE IF APPROPRIATE TO THIS SPECIFIC CONTRACT.

G. CONTRACTOR SHALL PROCURE AND FURNISH OWNER'S PROTECTION LIABILITY INSURANCE POLICY NAMING SANTA ROSA COUNTY WITH THE FOLLOWING LIMITS:

1. \$1,000,000 PER OCCURRENCE.
2. \$2,000,000 AGGREGATE.

SWORN STATEMENT UNDER SECTION 287.133 (3) (A),  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to \_\_\_\_\_  
\_\_\_\_\_ by  
\_\_\_\_\_ (print individual's name and title)  
\_\_\_\_\_ for  
\_\_\_\_\_ (print name of entity submitting sworn statement)

whose business address is \_\_\_\_\_ and (if applicable) its Federal  
Employer Identification Number (FEIN) is \_\_\_\_\_. If the entity has no FEIN,  
include the Social Security Number of the individual signing this Sworn Statement:

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods of services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
1. A predecessor or successor of a person convicted of a public entity crime; or
  2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of public entity crime.
5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with legal power to enter into a binding contract and which bids or appeals to bid on contracts for the provision of goods and services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies.)  
\_\_\_\_\_ Neither the entity submitting this sworn statement, nor one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.  
\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officers determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (ATTACH A COPY OF THE FINAL ORDER.)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

\_\_\_\_\_ (Signature)

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 2\_\_\_\_\_.

Personally known \_\_\_\_\_

or Produced identification \_\_\_\_\_ Notary Public – State of \_\_\_\_\_

\_\_\_\_\_ My commission expires \_\_\_\_\_

(Type of identification)

\_\_\_\_\_ (Printed, typed, or stamped commissioned name of notary public.)

**WATER QUALITY SAMPLING,  
ANALYSIS AND REPORTING**

**FOR**

**SANTA ROSA COUNTY  
SOLID WASTE DISPOSAL FACILITIES**

**TECHNICAL SPECIFICATIONS AND APPENDICES**



Prepared by Santa Rosa County  
Environmental Department  
6065 Old Bagdad Hwy.  
Milton, Florida 32583

Preparation Date: June 3, 2016

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APPENDICES

Appendix I	SANTA ROSA COUNTY LANDFILL LOCATIONS
Appendix II	SANTA ROSA COUNTY SOLID WASTE MANAGEMENT LANDFILL PERMITS CORRECTIVE ACTION REQUIREMENTS
Appendix III	PERMITTED & CORRECTIVE ACTION MONITORING WELL CONSTRUCTION & SAMPLING POINT INFORMATION

## **1.0 GENERAL INFORMATION**

### **1.1 Introduction**

The Florida Department of Environmental Protection requires an environmental monitoring program at Santa Rosa County's solid waste management facilities. The objective of the program is to assess and report water quality conditions at each facility. The nature and extent of the monitoring program is based upon site specific criteria and may include sampling and analysis of groundwater, leachate, surface water, and wastewater and/or storm water.

This specification manual has been prepared to outline the procedures which must be followed when performing a sampling event for the environmental monitoring program at facilities associated with Santa Rosa County. The objective of the manual is to obtain a sample that meets the requirements of the environmental monitoring program and ensure the integrity of the sample until it is ready to be analyzed. Therefore, samples must be collected which provide a representation of actual conditions and are handled in such a manner to avoid factors that could affect analytical results.

These specifications address each aspect of sample collection and laboratory analysis including:

- **Health and safety guidelines**
- **Sample locations and parameters**
- **Preparation, use and types of sampling equipment**
- **Sample preservation, storage and handling**
- **Sampling methodology**
- **Documentation and record keeping**
- **Evaluation of data**
- **Preparation of data for submittal to SRC Environmental Department**

These specifications represent the standards to be maintained for sampling associated with Santa Rosa County's solid waste management facilities water quality monitoring program. Increased levels of quality assurance/quality control proposed by a contracted firm may be instituted following review and approval by the Environmental Manager and Environmental Geologist.

Santa Rosa County Environmental Manager:

Ronald C. Hixson  
Santa Rosa County Environmental Department  
6065 Old Bagdad Hwy  
Milton, FL 32583  
(850) 981-7135/Fax (850) 981-7133

Santa Rosa County Geologist:

Julian C. Cooley, P.G.  
Santa Rosa County Environmental Department  
6065 Old Bagdad Hwy  
Milton, FL 32583  
(850) 981-7135/Fax (850) 981-7133

## 1.2 Submittals

Bid for **total annual services** shall be submitted on the bid form within this document and must be accompanied by a Certified Check or Bid Bond in the amount of five percent (5%) of the base bid. This will be held as a guarantee that the Bidder if awarded the contract will, within ten (10) consecutive calendar days after written notice being given enter into written Contract with the Owner in accordance with the accepted bid. Bidders shall submit with this bid all items requested by this specification manual. Failure to do so may result with the bidder being found not in compliance with the bid requirements. Bid scoring process will follow the Bid Evaluation Criteria shown below:

### **FIRMS' EVALUATIONS AND SELECTION**

The County shall consider the follow factors in selecting the vendor under this request. The selection committee shall consider such factors as:

- Capabilities
- Adequacy of personnel
- Experience of the firm
- Abilities of professional personnel
- Whether firms are certified minority business enterprises
- Review of references submitted
- Willingness to meet time and budget requirements
- Location
- Recent, current, and projected workload

**Bid Evaluation Criteria:**

<b><u>Weight (%)</u></b>	<b><u>Criteria</u></b>
40%	Staff capabilities
20%	Experience and knowledge of staff performing similar work within the geographic area ( <b>Northwest Florida</b> )
40%	Unit Cost Rate of Items found on Bid Form.
100%	

It is the intent of the OWNER to enter into a three (3) year term contract, with a renewal clause for two (2) additional one (1) year renewal terms for services as described herein.

**1.3 Scope of Work**

The scope of services described in these specifications will include sample collection, preservation, transportation, analysis, and documentation for surface water, groundwater, leachate and miscellaneous sampling events at landfills located in Santa Rosa County, Florida. All activities will be in accordance with Florida Administrative Code (FAC), chapters 62-300, 62-500, 62-700, and 62-701 and the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures for Field Activities SOP-001/01 dated January 1, 2002, revised 2004 and COUNTY requirements. The sampling frequencies for each of the permitted solid waste facilities are semi-annual. Sampling services shall be supervised by COUNTY staff.

Sampling points may include, but are not limited to, surface water, groundwater **permitted and assessment** monitoring wells, landfill leachate, National Pollution Discharge Elimination System (NDPES), and groundwater remediation systems sampling points. The **VENDOR** shall be responsible for coordinating sampling events with the Santa Rosa Environmental Office and the Florida Department of Environmental Protection as necessary.

The **VENDOR** will provide all required equipment needed to perform the specified sampling activities, including but not limited to, water quality meters, sampling pumps and controllers, balers, sample bottles and coolers. The **VENDOR** will also perform all necessary actions to obtain the required samples, including but not limited to, well purging, sample collection, collection of field parametric data, preparation and submission of sample collection logs and chain of custody forms and transportation of samples to a **VENDOR** provided laboratory, certified by the Florida Department of Environmental Protection.

**VENDOR is responsible for evaluating the attached landfill permits and corrective action requirements to determine, for each sampling event and facility, the parameters required for collection, analysis and reporting to including, but not limited to, all field parameters, collection documentation and chain of custody, timelines for submission of data and reports and notifications to regulatory agencies prior to commencing the event.**

The **VENDOR** will provide or contract for all analytical services for each sample event and provide one copy of sample results in hardcopy and electronic format (CD or DVD) and FDEP ADAPT format (CD or DVD) including COUNTY format. All laboratory results must be signed by a qualified certifying laboratory official.

The required water quality monitoring reports and all ground water including COUNTY landfill permitted and corrective action sampling points, surface water, and leachate analytical results shall be submitted electronically. The water quality Electronic Data Deliverable (EDD) shall be provided to the Department in an electronic format consistent with the requirements for importing the data into the **Department's Excel spreadsheets**.

In addition, all data, reports and EDDs delivered to the Department shall be provided in hard copy and electronic media (CD or DVD) to the Santa Rosa County Environmental Office. **All laboratory analyses must also be submitted in electronic format using MS Excel and in the reporting format provided and used by Santa Rosa County Environmental Department.**

**Santa Rosa County requires that all properly completed field data, lab analyses, chain-of-custody forms, FDEP ADAPT and Santa Rosa County electronic data format be delivered to Santa Rosa County Environmental Department six weeks (42 days) from the beginning of the three landfill semi-annual sampling event (on or before May 1<sup>st</sup> & November 1<sup>st</sup>).**

### **1.3.1 Bid Submittal Requirements**

1. Provide a summary of staff capabilities (and resources), including resumes of key staff who will be performing the project tasks if awarded. Professional qualifications of the key management and technical personnel must include appropriate education, training, and registration/certification.
2. Provide a list of up to 5 landfill water quality projects with a brief summary of each that demonstrates the firm's experience in water quality sampling and analysis using FDEP standard operating procedures (SOPs) for sampling and timely delivery of analyses. Special credence will be given to landfill projects in Northwest Florida. Provide references with each project.
3. If there are any questions about this bid package, contact the Santa Rosa County Procurement Officer.

### **1.3.2 Field Sampling and Analyses**

Santa Rosa County's Solid Waste Department will employ and pay for services of a professional environmental or engineering firm to perform the specified water quality sampling and testing at two (2) closed landfills (Holley, & SRC Class III Landfills) and one (1) active landfill (Central Landfill). Locations and permit documents that list the permitted wells and their sampling and analysis parameters of the disposal facilities are shown in Appendices II & III respectively. Assessment and remediation wells, influent/effluent sampling points, and their sampling and analysis parameters are listed in Appendix III by landfill. Well construction information is listed in Appendix IV by landfill.

### **1.4 Quality Assurance/Quality Control**

All bidders of the specified work herein must be authorized to operate in the State of Florida and must provide proof of such at the time of submitting their bid.

#### **1.4.1 Laboratory Certification**

The laboratory performing the specified analysis must have NELAC certification.

#### **1.4.2 Proof of Certification**

Proof of NELAC certification for the laboratory and Plan Approval shall be provided in the bid submittal. Upon selection, the successful bidder shall provide two complete copies of the approved NELAC certification and or acknowledgement and acceptance of FDEP SOP protocols to the Santa Rosa County Environmental Manager.

#### **1.4.3 VENDOR Proof of Certification**

If the bidder engages a subcontractor to perform sampling or various specified laboratory analysis, then the subcontractor shall be identified, along with the work they are to perform, and proof of approved State SOPs.

### **1.5 Laboratory and Field Monitoring-Staff**

The bidder shall provide a listing of all key personnel utilized for field monitoring and laboratory analysis. This listing shall include but not be limited to all principals, project/program managers, quality assurance/quality control managers, chemists and field monitoring personnel. Resumes for key personnel shall also be included in the bid.

## **1.6 Testing Equipment**

All equipment utilized in the field monitoring program and laboratory shall be calibrated at reasonable intervals with devices of accuracy traceable to either National Bureau of Standards (NBS) standards or accepted values of natural physical constants. Copies of field equipment calibration logs will be submitted to Santa Rosa County Environmental Department at the time of final data submission.

## **2.0 HEALTH AND SAFETY PROGRAMS**

### **2.1 Certification**

Persons performing water sampling must take appropriate precautions to ensure that proper personal protection is maximized and minimize probability of sample contamination. The VENDOR must have a standard health and safety program that all persons are required to be familiar with. Evidence of OSHA HAZWOPER 40-hour initial training and current annual refresher training of sampling personnel must be furnished prior to start of sampling program.

The VENDOR shall assure that proper equipment is provided that meets OSHA and industry standards. The VENDOR will be provided previous analyses showing known contaminants prior to the sampling event. The required equipment will be determined on a site-specific basis by the contracted sampling firm.

At a minimum the sampling personnel will have available for immediate emergency use.

- clean, potable water
- soap portable emergency eye wash
- basic first aid kit
- sampling team vehicles shall also be equipped with two-way radios or cellular phones

### **2.2 Training**

This program requires proper training for field sampling personnel. This training will minimize risks to personal health and safety and ensure accurate, high quality sampling events. These aspects are discussed in the following sections. The successful bidder shall provide a copy of the laboratory's training and health and safety program for review by the Santa Rosa County, Manager of Environmental Department.

### **2.2.1 Health and Safety**

The training shall include the identification of possible sources of personal injury and contamination as well as the selection and use of specific personal protection procedures and equipment to reduce or eliminate these risks. All field personnel must have their 40 Hour HAZWOPER training, which must also include specific response procedures to be followed during emergency situations.

### **2.2.2 Sampling**

Personnel engaged in sampling activities must be trained in the proper selection and use of sampling equipment, as well as sampling procedures and techniques, which include requirements of regulatory agencies and these specifications. The laboratory's sampling crew must follow current FDEP Standard Operating Procedures including any other future revisions.

## **3.0 SAMPLE COLLECTION**

The VENDOR or VENDOR's sampling crew shall observe all FDEP guidelines while collecting samples from each sample point specified by Santa Rosa County. The VENDOR shall contact the Santa Rosa Environmental Office and the Florida Department of Environmental Protection Northwest District's Solid Waste Department three (3) weeks before the start of semi-annual water quality sampling.

**Field instruments will be calibrated according to factory instructions. All field calibrations will be kept in a field log according to FDEPs guidelines on calibration procedures. This information will be included in the final material given to Santa Rosa County Environmental Department.**

Landfill location maps are located in Appendix I. Sampling locations for groundwater, leachate detection, leachate and storm water discharge sampling points are listed in Landfill Permits, Appendix II. Assessment and recovery wells, influent/effluent sampling points, and their sampling and analysis criteria are also included with the individual landfill sites Appendix III. Additional groundwater monitoring wells and leachate collection sampling locations may be added to the sampling program in accordance with future requirements. Well construction information is listed by landfill in Appendix III.

#### **4.0 SAMPLE CONTAINERS, PRESERVATION AND HANDLING**

The Vendor is responsible for providing all equipment and materials including but not limited to, collection bottles, preservatives, meters, pumps, and coolers to successfully complete each sampling event. Sample containers and field equipment will be decontaminated and cleaned by the laboratory in accordance with their approved NELAC certification or SOP accepted by FDEP. Collected samples will be transported to the laboratory in accordance with their approved SOP accepted by FDEP.

#### **5.0 CHAIN-OF-CUSTODY PROTOCOL**

Chain-of-custody protocol is necessary to ensure the integrity of samples from the time of collection to data reporting. Chain-of-custody protocol includes proper sample labeling, sample sealing, sample storage, and the chain-of-custody record. The VENDOR's SOP shall state the specific procedures of sample custody and the VENDOR shall adhere to these procedures.

Chain-of-custody records will be completed to document sample possession. A written record of sample container possession and transfer must be documented using a chain-of-custody record. SRC Environmental Department's Professional Geologist shall approve the chain-of-custody form prior to start of the sampling program. A copy of the completed chain-of-custody form shall be included in the final sampling and laboratory analysis report furnished to the County after each sampling event.

#### **6.0 LABORATORY ANALYSIS**

Collected samples will be submitted to a NELAC certified laboratory for analysis. Appendix III provides a copy of the permits, which gives a list of the field and lab chemical parameters for each respective Santa Rosa County landfill. A list of all assessment and remediation wells, influent and effluent points, their list of the parameters, and analytical methods required by FDEP Waste Management under assessment or remediation is located in Appendix III.

#### **7.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES**

The Contractor will follow the FDEP SOPs effective 7/30/14 when identifying quality assurance/quality control procedures which should be performed to document the accuracy and precision of the sampling and laboratory analyses. Procedures identified in the State SOP shall include both field and laboratory programs.

The Santa Rosa County Environmental Manager or Geologist shall be updated by the contracted analytical laboratory whenever its NELAC certification status has been revised or updated.

## **8.0 REPORT PREPARATION**

### **8.1 Field and-Analytical Reports**

Within 30 days after sample collection, a complete report in standard FDEP format must be submitted to Santa Rosa County's Environmental Geologist for review. This report must include the following information:

Field and lab analytical results for all sampling locations, duplicates, blanks, and matrix spikes (MS/MSDs) shall be tabulated and checked for accuracy according to laboratory FDEP accepted SOPs. Analytical parameters should be reported in the same order as listed by FDEP and produced by FDEP ADAPT software. All laboratory results must be signed by a qualified certifying laboratory official.

A complete report of field activities summarizing events that took place during the sampling event must be submitted to the Environmental Manager or Environmental Geologist for review. At a minimum, the report should include methods used in purging and sampling for each well location, field instrument calibration logs, Site GMS number, Well Test Site number for FDEP landfill permitted monitoring wells, order of sampling, method of field filtration, location where duplicates were obtained, and other information pertinent to the field activity on the FDEP AP(1) form. The field FDEP AP(1) form report must be signed by the field personnel.

An initial round of water levels must be taken from all monitoring wells at each landfill before the start of water quality sampling. These water levels will be submitted to the County Geologist immediately upon their completion.

A summary table of field measured data must be submitted which will include sample location GMS and Well Test Site numbers as applicable, sample order, static water elevation in feet referenced to MSL datum, volume of water in casing, volume purged, sampling method, dissolved oxygen, temperature, specific conductance, and pH.

Properly and completely filled out FDEP approved groundwater monitoring field data sheets for each sampling location must be submitted with the final report.

Copies of all chain-of-custody forms utilized during the sampling event must be properly completed and submitted with the final report.

Copies of all results of laboratory analysis run during the time samples were being analyzed.

All reports shall be submitted to Santa Rosa County's Environmental Office within 30 days after completion of field sampling in one packet at one time unless prior agreement with the County has been made. The packet shall completely identify which landfill, public utility, location at a creek, or private pond the reports relate to and the laboratory shall note any substantial changes in quantities detected of parameters analyzed from previous semi-annual analysis.

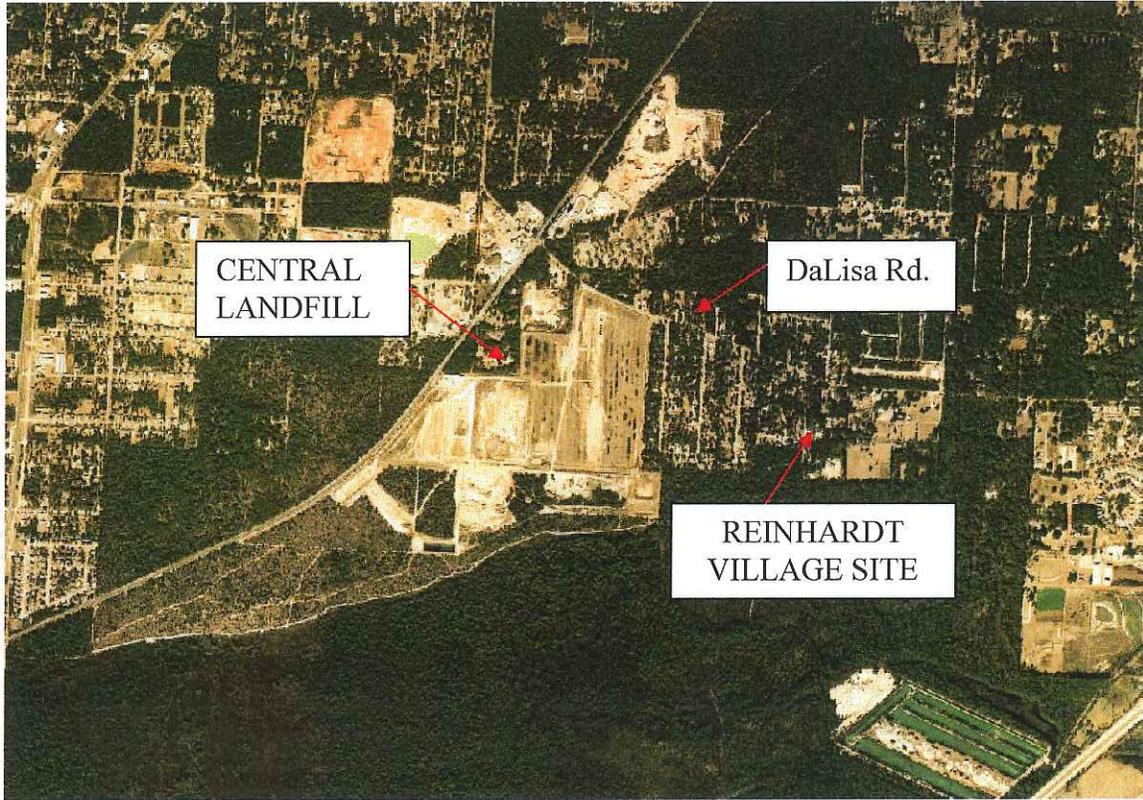
## **8.2 Regulatory Agency Report Characterizations**

Results of sampling events will be submitted to the regulatory agency within the time frame specified in the permit conditions for the given facility. The data will be entered on the form required by FDEP by the VENDOR. The VENDOR will also send the FDEP ADAPT files to the proper office in FDEP Tallahassee.

## APPENDICES

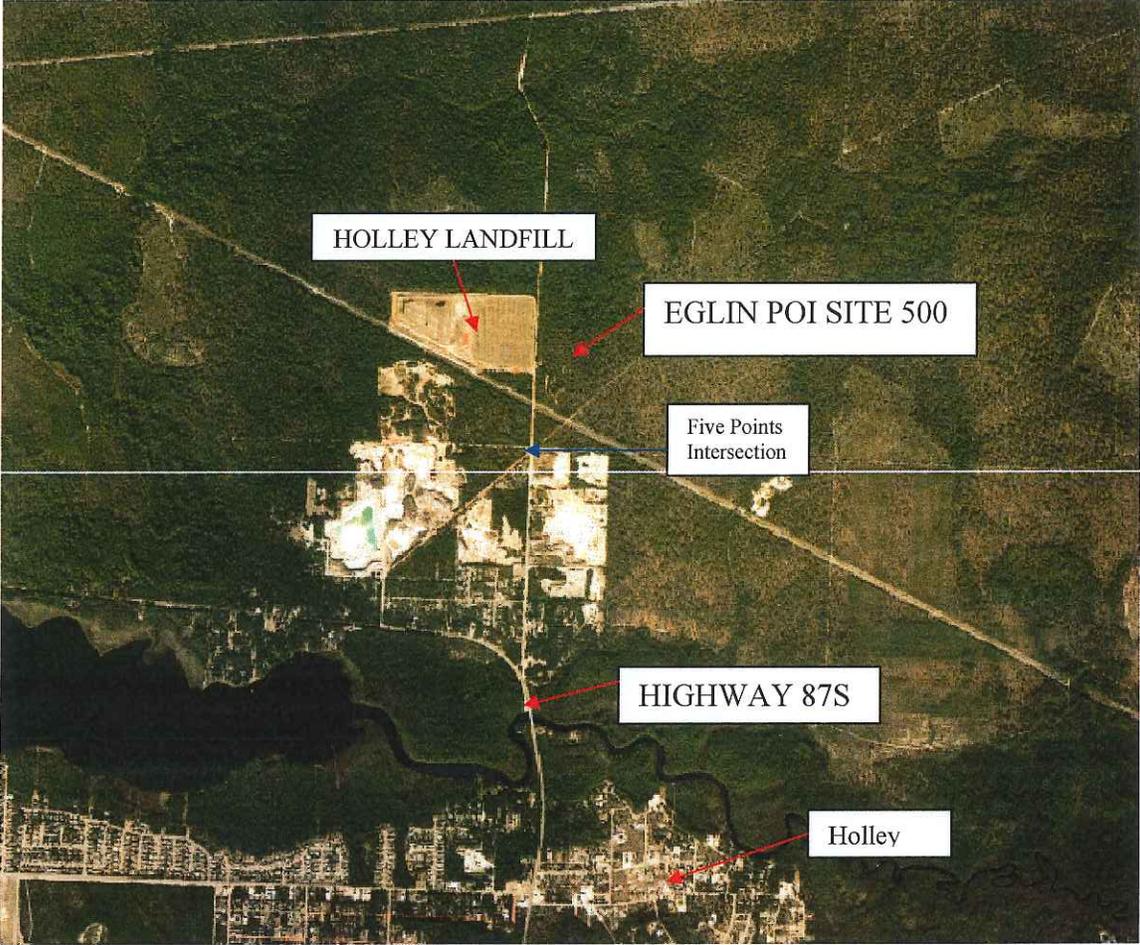
**APPENDIX I**

**SANTA ROSA COUNTY LANDFILL LOCATIONS**

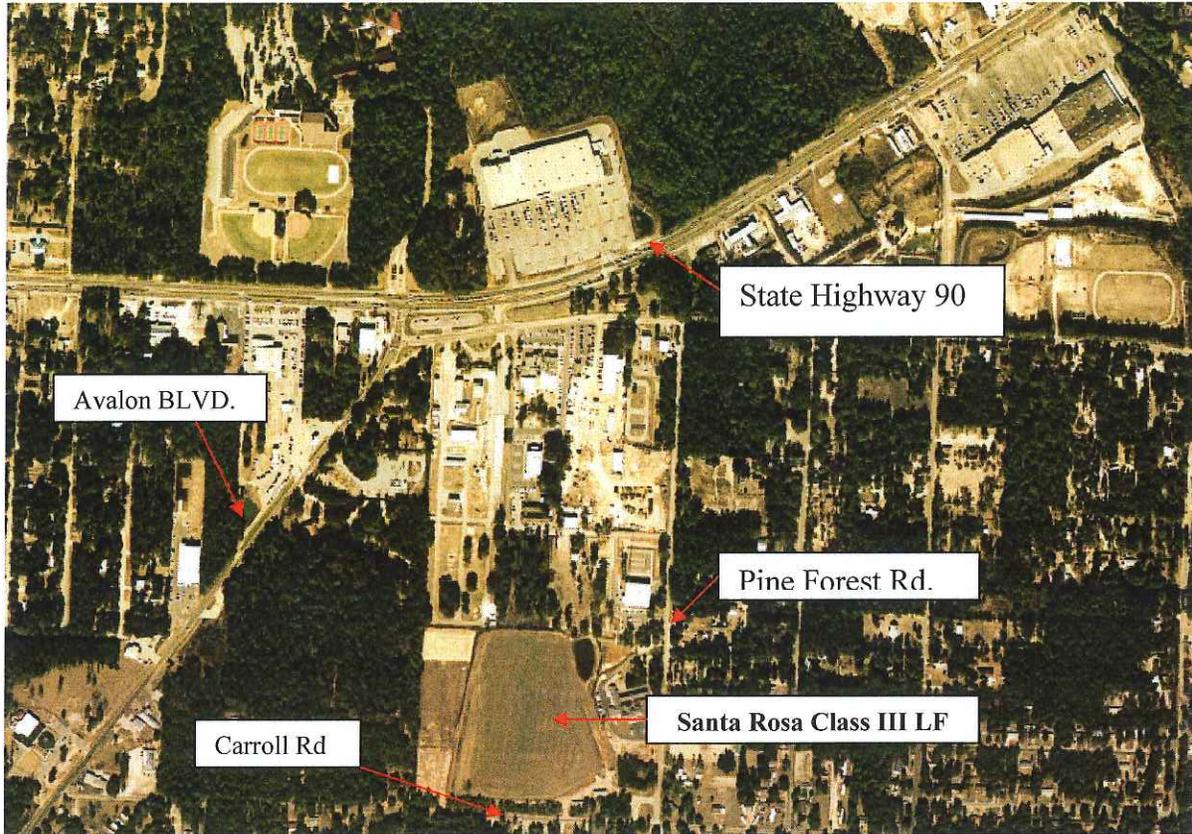


**FIGURE 1**  
**CENTRAL LANDFILL & REINHARDT VILLAGE SITE LOCATION**

**FIGURE 1  
HOLLEY LANDFILL SITE LOCATION**



**FIGURE 1**  
**SANTA ROSA CLASS III LANDFILL LOCATION MAP**



**APPENDIX II**

**SANTA ROSA COUNTY  
WASTE MANAGEMENT LANDFILL PERMITS  
CORRECTIVE ACTION REQUIREMENTS**

**CENTRAL LANDFILL PERMIT**



# Florida Department of Environmental Protection

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740

Rick Scott  
Governor

Herschel T. Vinyard Jr.  
Secretary

## NOTICE OF PERMIT

April 5, 2013

Sent via e-mail to:  
jerrela@santarosa.fl.gov

In the matter of an  
Application for Permit by:

DEP File No. 0001534-013-SO  
0001534-014-SO  
0001534-015-WT  
0001534-016-SO  
Santa Rosa County

Mr. Jerrel L. Anderson, P.E.  
Environmental Manager  
Santa Rosa County  
6065 Old Bagdad Highway  
Milton, Florida 32583

Dear Mr. Anderson:

Enclosed is the Permit for operation of Class I, Class III and yard trash processing facility and to construct and operate a landfill gas management system. The facility known as Central Landfill (DEP Permit Numbers 0001534-013-SO, 0001534-014-SO, 0001534-015-WT and 0001534-016-SO; Facility Identification No.: 12300) is located at 6337 Old Dalisa Road, Milton, Santa Rosa County, Florida 32583. This permit is issued pursuant to Sections 403.707 of the Florida Statutes (F.S.) and Rules 62-4, 62-701, 62-709, and 62-711 Florida Administrative Code (F.A.C.)

Any party to this order (permit), has the right to seek judicial review of the permit under Section 120.68 of the Florida Statutes, by the filing of a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department in the office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000 and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty (30) days after this notice is filed with the Clerk of the Department.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

J. Charles Harp  
Program Administrator  
Waste Management/Air Resources  
Northwest District

Notice of Permit  
Page 2 of 2  
Santa Rosa Central Landfill  
Facility Identification No. 12300

160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
(850) 595-8300

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk, receipt of which is hereby acknowledged.



April 5, 2013

Clerk

Date

c: Lee Martin, P.E., Solid Waste Management, [lee.martin@dep.state.fl.us](mailto:lee.martin@dep.state.fl.us)  
Susan Eldredge, Solid Waste Management, [Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)  
Julian Cooley, P.G., Santa Rosa County, [JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)  
Shane Fischer, P.E., SCS Engineers, [sfischer@scsengineers.com](mailto:sfischer@scsengineers.com)  
Cliff Koenig, P.E., HDR, Inc., [Cliff.Koenig@hdrinc.com](mailto:Cliff.Koenig@hdrinc.com)

Enclosures: Permit

You can view this and other documents for this facility at the following internet link:  
[http://appprod.dep.state.fl.us/WWW\\_WACS/REPORTS/SW\\_Facility\\_Docs.asp?wacsid=12300](http://appprod.dep.state.fl.us/WWW_WACS/REPORTS/SW_Facility_Docs.asp?wacsid=12300)



# Florida Department of Environmental Protection

Northwest District  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740

Rick Scott  
 Governor

Herschel T. Vinyard, Jr.  
 Secretary

## Permit Issued to:

Permittee Name:	Santa Rosa County Board of County Commissioners
Permittee Address:	6065 Old Bagdad Highway
Permittee City, State, Zip:	Milton, Florida 32583
Phone Number:	(850) 981 7135
Facility WACS ID No.:	12300
Facility Name:	Central Landfill
Facility Address:	6337 Old Dalisa Road
Facility City, State, Zip:	Milton, Florida 32583
Facility County:	Santa Rosa (57)
Facility Latitude / Longitude:	30° 34' 87" N / 87° 03' 45" W

## Solid Waste Construction/Operation, Renewal Permit – Landfill

Permit Nos.:	Class I 0001534-013-SO Class III 0001534-014-SO Waste Tire Collection Center 0001534-015-WT Class I landfill Gas Management 0001534-016-SO
Replaces Permit No.:	0001534-008-SO
Permit Issued:	April 5, 2013
Permit Renewal Application Due Date:	February 3, 2018
Permit Expires:	April 5, 2018

### Permitting Authority

Florida Department of Environmental Protection  
 Northwest District Office  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740  
 (850) 595 8300

PERMITTEE NAME: Santa Rosa County Board of County Commissioners

PERMIT NO.: 0001534-013-SO

FACILITY NAME: Central Landfill

0001534-014-SO

0001534-015-WT

WACS Facility ID: 12300

## **SECTION 1 - SUMMARY INFORMATION**

### **A. Authorization**

The permittee is hereby authorized to construct/operate the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste construction/operation permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code Chapters 62-4 and 62-701.

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

### **B. Facility Location**

This facility is located on 6337 DaLisa Road, Milton, Santa Rosa County, Florida 32583.

### **C. Facility Description**

- Operate a Class I Landfill having approximately a 39.03-acre total disposal area (18.02 acres new and 21.01 acres high rise over existing closed Class I Landfill with single liner.)
- Construct and operate a Class III Landfill having approximately a 44.27-acre total disposal area (19.8 acres new and 24.47 acres existing.)
- Operate a yard trash processing facility
- Construct and operate a landfill gas management facility.

### **D. Appendices Made Part of This Permit**

APPENDIX 1 - General Conditions

APPENDIX 2 – Approved Application Documents

APPENDIX 3 – Water Quality Monitoring Plan

APPENDIX 4 – Operation Plan

APPENDIX 5 – Existing Overall Facility Site Plan (Drawings 2a – 2d of 5)

APPENDIX 6 – Final Closure Site Plan (Drawing 3 of 5)

APPENDIX 7 – Landfill Gas Plan Sheet (Sheet 00C-2)

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APPENDIX 8 – Water Quality Monitoring Network Site plan (Drawings 1-4 of 4)

**E. Attachments for Informational Purposes Only**

ATTACHMENT 1 - Time Sensitive Action Chart

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

ATTACHMENT 2 – Closure Cost Estimating Form for Solid Waste Facilities  
DEP Form 62-701.900(28)

ATTACHMENT 3 – Basic Monitor Well Design

ATTACHMENT 4 – Monitoring Well Completion Report  
Form 62-701.900(30)

ATTACHMENT 5 – Water Quality Monitoring Certification  
Form 62-701.900(31)

ATTACHMENT 6 – Groundwater Sampling Log  
Form FD 9000-24

## SECTION 2 - SPECIFIC CONDITIONS

### A. Administrative Requirements

1. Documents Part of This Permit. The permit application as revised in final form replaced or amended in response to the Department's Request(s) for Additional Information are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or permittee's legal name is changed.
5. Air Construction Permit Requirements
  - a. The landfill owner or operator is not required to obtain an air construction permit, unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Department of Environmental Protection, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
  - b. The landfill owner or operator is not required to obtain an air operating permit, unless the landfill is required to obtain a Title V Air Operating Permit (Title V Permit) pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V Permit if the landfill (or the total facility, if the landfill is contiguous to or part of a larger facility) has the potential to emit 10 tons per year (TPY) or more of any hazardous air pollutant, 25 TPY or more of any combination of hazardous air pollutants, or 100 TPY or more of any other regulated air pollutant. A landfill is also required to obtain a Title V Permit if the maximum design capacity, as defined in 40 CFR 60, Subpart WWW, is equal to or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V Permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, F.A.C., and Chapter 62-213, F.A.C. Title V applications shall be submitted to the District Air Program Administrator at 160 W. Government Street, Suite 308, Pensacola, Florida 32502-5740, (850) 595-8300.
  - c. The Permittee is required to comply with the requirements of 40 CFR 60, Subpart WWW and CC as adopted by reference in Rule 62-204.800, F.A.C. The Permittee may have to submit to the Division of Air Resource Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, any amended design

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capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 6-.757(a)(3) and (b).

### **B. Construction Requirements**

1. Construction authorized. This Permit authorizes construction activities related to the Phase I, Sequence 1 Landfill Gas Collection and Control System, APPENDIX 7.
2. General Construction Requirements. All construction shall be done in accordance with the approved design, drawings, CQA plan, and specifications. The Department shall be notified before any changes, other than minor deviations, to the approved design are implemented in order to determine whether a permit modification is required.
3. Certification of Construction Completion. Upon completion of construction, the engineer of record shall certify to the Department in accordance with Rule 62-701.320(9)(b), F.A.C., that the permitted construction is complete and was done in substantial conformance with the approved construction plans except where minor deviations were necessary. All deviations shall be described in detail and the reasons therefore enumerated. The following documents shall be submitted along with the Certification:
  - a. The final report and record drawings showing that the liner system has been installed in substantial conformance with the plans and specifications for the liner system. The record drawings must include the results of the surveys of the liner, base grade and collection pipe slopes.
  - b. The final report showing the results of the geomembrane liner leak location survey.
  - c. Results of testing of geosynthetic and soil components of the liner system.
4. Construction Quality Assurance. The Construction Quality Assurance (CQA) Plan submitted with the permit application shall be followed for preparing the subgrade and installing and testing the liner system and related components. The CQA engineer or the engineer's designee shall be on-site at all times during construction of the liner system to monitor the construction activities including preparation of the subbase, placement of the liner components and leachate collection system, and placement of the drainage and protective layer over the primary liner.
5. Approval of Certification. The permittee shall not begin using the landfill gas collection system at the facility until one of the following has occurred: (1) the Department has stated in writing that it has no objection to the certification of construction completion; or (2) at least 30 days have passed since the certification was submitted and the Department has not responded in writing to the certification.

### **C. Operation Requirements**

1. General Operating Requirements. The Permittee shall operate the landfill in accordance with the approved Operation Plan as listed in Appendix 4. The Department shall be notified before any changes, other than minor deviations, to the approved Operation Plan are implemented in order to determine whether a permit modification is required.

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2. Operation Plan. A copy of the approved Operation Plan, including the operating record as defined in Rule 62-701.500(3), F.A.C., shall be kept at the scale house and shall be accessible to landfill operators.
3. Authorized Waste Types. The facility is authorized to manage only the following waste types:
  - a. Waste types defined in Rule 62-701.200, F.A.C.:
    - 1) Class I waste.
    - 2) Class III waste.
    - 3) Construction and demolition debris.
    - 4) Yard trash.
    - 5) White goods.
    - 6) Waste tires.
    - 7) Recovered materials.
  - b. Other Wastes Specifically Authorized: None
4. Unauthorized Waste Types. The facility is not authorized to accept, process or dispose any waste types not listed in C.3. above. In addition, the facility is not authorized to dispose of the following special Wastes:
  - a. Used Oil
  - b. Lead Acid Batteries
  - c. Yard Trash in a Class I landfill
  - d. Whole Waste Tires
  - e. White Goods

Any unauthorized waste inadvertently received by the facility shall be managed in accordance with the approved Operation Plan.
5. Waste Management and Handling
  - a. Solid waste shall be formed into cells to construct horizontal lifts. The working face of the cell, and side grades above land surface, shall be at a slope no greater than three feet horizontal to one-foot vertical rise or as authorized by this permit in accordance with the approved operation plan.
  - b. No solid waste shall be disposed of outside of the permitted footprint of the solid waste disposal units.
  - c. The sequence of waste filling shall be as specified in the approved operation plan.
6. Landfill Elevation. The final (maximum) elevation of the Landfill, phases and areas identified below, shall not exceed elevations identified below, shown on APPENDIX 6, Final Closure Site Plan (Drawing 3 of 5)
  - a. Class I Landfill, Phases I, II, III, IV shall not exceed 143.0 NGVD 1929
  - b. Class III, Area 1 shall not exceed 102.4 NGVD 1929
  - c. Class III, Area 2 shall not exceed 104.7 NGVD 1929
  - d. Class III, Area 3 shall not exceed 103.3 NGVD 1929

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7. Initial Waste Placement. The first layer of waste placed above the liner and leachate collection system shall be a minimum of four feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system.
8. Cover Requirements:
  - a. Initial Cover: An initial cover shall be applied at the end of each working day. Approved initial covers include:
    - 1) Tarpaulins
    - 2) Six inches of a compacted soil/mulch combination
    - 3) Chipped clean wood debris provided it meets the criteria of subsection 62-701.200(53), F.A.C.
    - 4) CCA treated wood may be ground and used as initial cover on interior slopes of lined solid waste disposal facilities provided it meets the criteria of subsection 62-701.200(53), F.A.C.
  - b. Intermediate Cover: An intermediate cover in addition to the six-inch initial cover shall be applied and maintained within seven days of cell completion if additional solid waste will not be deposited within 180 days of cell completion. The landfill operator may remove all or part of the intermediate cover before placing additional waste or installing final cover.
9. Erosion Control: Erosion control measures shall be employed to correct any erosion which exposes waste or causes malfunction of the storm water management system. Such measures shall be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence, the landfill operator shall notify the Department and propose a correction schedule.
10. Contingency Plan and Notification of Emergencies. The Permittee shall notify the Department in accordance with the approved Contingency Plan. Notification shall be made to the Solid Waste Section of DEP's NWD Office at (850) 595-8300.
11. Housekeeping. The facility shall be operated to control dust, vectors, litter and objectionable odors. If objectionable odors are confirmed beyond the landfill property boundary, the owner or operator shall comply with the gas management requirement in Section 2, Part E.
12. Leachate Management.
  - a. The permittee shall operate the leachate management system (including the collection, removal, storage, and on-site treatment systems), and maintain the system as designed, so that leachate is not discharged from the system except as provided for in the Design Plan and Operation Plan.
  - b. Routine inspections and maintenance of the leachate management system shall be conducted in accordance with the schedule established in the Operation Plan
  - c. The leachate collection pipes shall be cleaned or video inspected at least once every five years. A summary of the results shall be submitted with the permit renewal application.
  - d. The permittee shall record quantities of leachate generated on a daily basis in gal/acre/day, shall record precipitation at the facility, and shall compare these measurements. If measurements indicate a significant discrepancy between leachate generation rates and precipitation records, the permittee shall notify the Department and conduct an assessment to determine the cause of the discrepancy.

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- e. The permittee shall compare the leachate flow rates in the leak detection system with the design action leakage rate (ALR) for the double liner. If measurements indicate the ALR has been exceeded, the permittee shall notify the Department and conduct an assessment to determine the cause of the leak. This data shall be made available to the Department upon request.
13. Spotters and Operators. This facility shall have the minimum number of spotters present when waste is accepted as specified in the operation plan, to be located as specified in the operation plan. A trained operator shall be on duty at the facility at all times the facility is operating. Approved training courses can be found at the following web site: <http://www.treeo.ufl.edu/sw/>.
14. Record Keeping Requirements.
- a. Waste Quantity Records. Waste records shall be compiled monthly, and copies shall be provided to the Department no less than annually by February 1. This information shall be reported to the Department through the DEP Business Portal located at: <http://www.fldepportal.com/go>.
- c. Estimate of Remaining Life. The permittee shall submit the annual estimate of the remaining life and capacity by February 1. The report is required by Rule 62-701.500(13)(c), F.A.C. and must be submitted to:
- Florida Department of Environmental Protection  
Solid Waste Section, MS 4565  
2600 Blair Stone Road  
Tallahassee, Florida, 32399-2400
- Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502
15. Hazardous Waste. If any regulated hazardous wastes are discovered to be deposited at the facility, the facility operator shall promptly notify the Department, the person responsible for shipping the wastes to the facility, and the generator of the wastes, if known. The area where the wastes are deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the facility operator shall assure the cleanup, transportation, and disposal of the waste at a permitted hazardous waste management facility. In the event that hazardous wastes are discovered they shall be managed in accordance with the procedures provided in facility Operation Plan.
16. Stormwater. Leachate shall not be discharged into the stormwater management system. Stormwater or other surface water which comes into contact with or mixes with the solid waste or leachate shall be considered leachate and is subject to the requirements of Rule 62-701.500(8), F.A.C.

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#### **D. Water Quality Monitoring Requirements**

1. Zone of Discharge. The zone of discharge for this facility shall be a three dimensional volume described as:
  - a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in Attachment 2 of APPENDIX 3.
  - b. The vertical ZOD shall extend from the land surface down to the top of the upper member of the Pensacola Clay Zone at approximately -275 feet North American Vertical Datum (NAVD).

The permittee shall ensure that Class G-II water quality standards will not be exceeded at the boundary of the zone of discharge, per Rule 62-520.420, F.A.C., and that ground water minimum criteria will not be exceeded outside the boundary of the zone of discharge, per Rule 62-701.320(17), F.A.C.

2. Electronic Reporting. Required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:
  - a. Cover letter;
  - b. Summary of exceedances and sampling problems, if any (e.g., variation from SOP field criteria);
  - c. Conclusions and recommendations;
  - d. Ground water contour maps;
  - e. Chain of custody forms;
  - f. Water levels, water elevation table;
  - g. Ground Water Monitoring Report Certification, using the appropriate Department form;
  - h. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
  - i. Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Solid Waste Section, MS 4565  
2600 Blair Stone Road  
Tallahassee, Florida, 32399-2400

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

3. Water Quality Monitoring Plan. The Water Quality Monitoring Plan for this permit is included in APPENDIX 3.

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0001534-015-WT

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4. Evaluation Monitoring. None
5. Ground Water Assessment. The permittee shall perform the ground water assessment as required by the May 14, 2002 Remedial Action Plan (RAP) Order.

#### **E. Gas Management System Requirements**

1. Construction Requirements. All construction shall be done in accordance with the approved gas management system design, drawings, and specifications. The Department shall be notified before any changes, other than minor deviations, to the approved design are implemented in order to determine whether a permit modification is required.
  - a. Ambient monitoring points shall be located in enclosed, non-elevated structures within the zone of discharge.
  - b. Locations of existing soil monitoring probes are specified in APPENDIX 5. Additional probes shall be installed in accordance with Rule 62-701.530(2)(b), F.A.C., beginning 100 feet west of GM-50 and continuing 100 foot spacing for 400 feet along the 1570.48 foot landfill boundary.
  - c. Locations of gas extraction or venting wells are specified in APPENDIX 5.
2. Certification of Construction Completion. After construction is completed the engineer of record shall certify to the Department in accordance with Rule 62-701.320(9)(b), F.A.C., that the permitted construction is complete and was performed in substantial conformance with the approved construction plans except where minor deviations were necessary. All deviations shall be described and the reasons therefore enumerated.
3. Operational Requirements. Gas controls shall be operated and maintained so that they function as designed.
4. Monitoring Requirements. Monitoring for methane gas at the property boundary and within structures on the property shall be performed quarterly to determine the effectiveness of the gas migration controls. The gas monitoring results shall be reported as a percent of the lower explosive limit (LEL), calibrated to methane. The report shall be submitted to the Department under separate cover no later than 15 days after the end of the period in which the monitoring occurred.

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

5. Gas Remediation Plan. The facility landfill gas management system shall be operated to prevent the concentration of combustible gases from exceeding 25% of the lower explosive limit in structures, excluding gas control or recovery components, and from exceeding the lower explosive limit at or beyond the property boundary. If either of these limits is exceeded then a gas remediation plan shall be designed and implemented in accordance with Rule 62-701.530(3)(a), F.A.C.

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6. Odor Remediation Plan. The facility shall be operated to control objectionable odors. If objectionable odors are confirmed beyond the property boundary then upon notification by the Department the permittee shall develop and implement an odor remediation plan in accordance with the requirements of Rule 62-701.530(3)(b), F.A.C.

#### **F. Financial Assurance and Cost Estimates**

1. Financial Assurance Mechanism. The permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

2. Annual Cost Estimates. The permittee shall annually adjust the closure cost estimate(s) for inflation using Form 62-701.900(28), Attachment 2. Adjustments shall be made in accordance with Rule 62-701.630(4), F.A.C. and, as applicable, 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate(s) between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate(s) between July 1 and September 1.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

With a copy to:

[Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us).

or

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

#### **G. Closure Requirements**

1. Closure Permit Requirements. Prior to initiating closure of a solid waste disposal unit, or part of a solid waste disposal unit, the Permittee must receive authorization from the Department in one of the following manners. The Permittee may submit an application to the Department for a closure permit on Form 62-701.900(1), which application shall include a closure plan. If the

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landfill is operating under a Department permit, the Permittee may request a modification of the permit to address substantive changes in the closure plan, or the Permittee may demonstrate that the closure plan in the existing operation permit includes sufficient detail to provide reasonable assurance of compliance with the provisions for closure. The application or request for modification shall include an updated closure plan which is made up of the following:

- a. A closure design plan;
  - b. A closure operation plan;
  - c. A plan for long-term care; and,
  - d. A demonstration that proof of financial assurance for long-term care will be provided.
2. Closure Design. All closure construction shall be done in accordance with the approved closure design plan. The Department shall be notified before any changes, other than minor deviations, to the approved closure design are implemented in order to determine whether a permit modification is required.
3. Closure Operation Plan. All closure shall be done in accordance with the approved closure operation plan.
4. Certification of closure construction completion. After closure construction has been completed, the engineer of record shall certify to the Department on Form 62-701.900(2) that the closure is complete and that it was done in accordance with the plans submitted to the Department except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated.

Executed in Escambia County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



J. Charles Harp  
Program Administrator  
Waste Management /Air Resources

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
(850) 595-8300

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

April 5, 2013  
Date

## General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the Department approves the transfer.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (BACT)
  - b. Determination of Prevention of Significant Deterioration (PSD)
  - c. Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
  - d. Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - (1) The date, exact place, and time of sampling or measurements;
    - (2) The person responsible for performing the sampling or measurements;
    - (3) The dates analyses were performed;
    - (4) The person responsible for performing the analyses;
    - (5) The analytical techniques or methods used;
    - (6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

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FACILITY NAME: Central Landfill

WACS Facility ID: 12300

## APPENDIX 2 –Application Documents

Permit Renewal Submittal received October 8, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166216.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166216.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166215.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166215.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166214.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166214.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166213.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166213.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166212.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166212.1]&[profile=Permitting_Authorization])

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[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166189.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166189.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166188.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166188.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175700.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175700.1]&[profile=Permitting_Authorization])

Permit Modification Submittal received October 18, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.166933.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.166933.1]&[profile=Permitting_Authorization])

Corrections to Permit Renewal Submittal received October 29, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.167521.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.167521.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.167528.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.167528.1]&[profile=Permitting_Authorization])

PERMITTEE NAME: Santa Rosa County Board of County Commissioners  
PERMIT NO.: 0001534-013-SO, 0001534-014-SO, 0001534-016-SO  
FACILITY NAME: Central Landfill

WACS Facility ID: 12300

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.167437.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.167437.1]&[profile=Permitting_Authorization])

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1<sup>st</sup> RAI for Permit Renewal issued November 9, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.168262.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.168262.1]&[profile=Permitting_Authorization])

1<sup>st</sup> RAI for Permit Modification issued November 16, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.169473.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.169473.1]&[profile=Permitting_Authorization])

Response to 1<sup>st</sup> RAI for Permit Modification received November 29, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.169474.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.169474.1]&[profile=Permitting_Authorization])

Partial Response to 1<sup>st</sup> RAI for Permit Renewal received December 13, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175689.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175689.1]&[profile=Permitting_Authorization])

Response to 1<sup>st</sup> RAI for Permit Renewal received February 6, 2013

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175828.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175828.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175859.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175859.1]&[profile=Permitting_Authorization])

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[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175862.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175862.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175863.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175863.1]&[profile=Permitting_Authorization])

PERMITTEE NAME: Santa Rosa County Board of County Commissioners  
PERMIT NO.: 0001534-013-SO, 0001534-014-SO, 0001534-016-SO  
FACILITY NAME: Central Landfill

WACS Facility ID: 12300

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175865.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175865.1]&[profile=Permitting_Authorization])

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[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175843.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175843.1]&[profile=Permitting_Authorization])

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Revised Documents Response to 1st RAI for Permit Renewal received February 6, 2013

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.174694.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.174694.1]&[profile=Permitting_Authorization])

Revised Documents Response to 1st RAI for Permit Renewal received February 13, 2013

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175849.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175849.1]&[profile=Permitting_Authorization])

PERMITTEE NAME: Santa Rosa County Board of County Commissioners

PERMIT NO.: 0001534-013-SO  
0001534-014-SO, 0001534-015-SO  
0001534-016-SO  
WACS Facility ID: 12300

FACILITY NAME: Central Landfill

### **Water Quality Monitoring Plan**

- A. A facility's zone of discharge shall be determined pursuant to Chapter 62-520, F.A.C. The zone of discharge shall not exceed 100 feet from the edge of those solid waste disposal units permitted to be constructed, unless modified in accordance with Rule 62-520.470, F.A.C.

[Rule 62-701.320(18), F.A.C.]

1. The allowable zone of discharge (ZOD) for this facility shall be as follows:

- a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in APPENDIX 8.
- b. The vertical ZOD shall extend from the land surface down to the top of the upper member of the Pensacola Clay Zone at approximately -275 feet North American Vertical Datum (NAVD).

- B. Water Quality Standards and Criteria:

1. Compliance with ground water quality standards shall be met at and beyond the edges of the ZOD in accordance with Rule 62-520.420, F.A.C. and as contained in Rule 62-550.310, F.A.C. and Rule 62-550.320, F.A.C.
2. The minimum ground water criteria specified in Rule 62-520.400, F.A.C., shall apply only outside the permitted zone of discharge, notwithstanding the provisions of Rule 62-520.400 and Rule 62-520.420, F.A.C. However, exceedances of ground water criteria within a permitted zone of discharge shall continue to require evaluation monitoring and prevention measures in accordance with Rule 62-701.510(6), F.A.C.  
[Rule 62-701.320(17), F.A.C.]
3. Comply with surface water quality criteria in accordance with Rule 62-302.530, F.A.C.
4. Compliance with minimum surface water criteria shall be in accordance with Rule 62-302.500, F.A.C.

- C. New or replacement monitoring wells, the permittee shall:

1. Obtain well construction permits from the Northwest Florida Water Management District.
2. Construct in accordance with the guidelines provided on Attachment 3.
3. Submit sieve analysis for each well and use for proper well design.
4. Provide appropriate well diameter for reliable and representative water quality results.
5. Ensure each well has an appropriate screen length.  
[Rule 62-701.510(3) (d) 4, F.A.C.]

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- 6. Properly develop new wells after installation and after settling.
  - 7. Submit lithologic logs, "as-installed" diagrams and descriptions of well development after installation of new wells.
  - 8. Submit the latitude and longitude location of each well.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
  - 9. Ensure constructed monitoring wells are lockable and are locked at all times. [Rule 62-701.510(3) (d) 5, F.A.C.]
- D. The location of each water quality sampling locations, in degrees, minutes and seconds (to two decimal places) of latitude and longitude, and the elevation of the top of the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum, shall be determined by a Florida Licensed Professional Surveyor and Mapper.  
[Rule 62-701.510(3) (d) 1, F.A.C.]

The location information shall include the method the data was collected using the following:

Field Name	Also Known As	Description
Object of Interest	Feature	The object the point represents
Relationship of Point to Object of Interest	Proximity	Identifies how close the point is to the actual object of interest.
Collection Method	Method	The method used to collect the point.
Collection Date	Date	The date the point was collected.
Datum		The reference for measuring locations on the earth's surface.

[Rule 62-701.320(7) (f) 7, F.A.C.]

Upon completion of each well, Form 62-701.900(30), Monitoring Well Completion Report, Attachment 4 shall be submitted to the Department to report details of the well construction and location.

[Rule 62-701.510(3) (d) 1, F.A.C. and Rule 62-701.510(4) (c), F.A.C.]

- E. Existing wells not used in the approved monitoring network for collection of samples or water elevation data shall be properly maintained and locked or shall be properly abandoned in accordance with Rule 62-532.500(5), F.A.C.
- F. Any monitoring wells which are abandoned or which will be covered due to lateral expansions of a landfill or the construction of new solid waste disposal units shall be plugged as necessary so that they do not act as a conduit for any leachate release to the ground water. The Department shall be notified in writing before any monitoring wells are abandoned or plugged. The permittee shall obtain appropriate well abandonment permits from the Northwest Florida Water Management District.

[Rule 62-701.510(3) (d) 6, F.A.C. and Rule 62-532.500(5), F.A.C.]

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G. The water-quality monitoring network shall consist of twenty-two (22) ground water monitoring wells (3-background, 6-detection, 11-compliance, 2-water level). **APPENDIX 8** graphically represents the water quality network. Use the following designations for ground water identification purposes in all future analysis reports:

Sample Location Name	Designation	Location		Test Site Number
		Latitude	Longitude	
MW-2	Detection	30° 34' 36".357	87° 03' 39".905	10419
MW-4	Compliance	30° 35' 00".919	87° 03' 32".950	10407
MW-6	Compliance	30° 34' 58".840	87° 03' 29".604	10408
MW-8	Compliance	30° 34' 36".129	87° 03' 28".173	10410
MW-9	Detection	30° 34' 36".526	87° 03' 49".573	10411
MW-10	Background	30° 34' 49.343"	87° 03' 56.624"	10412
MW-11	Water Level	30° 34' 58.957"	87° 03' 29.957"	10413
MW-14A	Detection	30° 34' 36.288"	87° 03' 55.203"	10440
MW-16	Detection	30° 34' 24.468"	87° 03' 55.466"	10459
MW-17	Compliance	30° 34' 29.534"	87° 03' 24.827"	20415
MW-18	Compliance	30° 34' 33.298"	87° 03' 24.576"	20416
MW-29	Detection	30° 34' 36.284"	87° 03' 57.848"	10549
MW-30 <sup>1</sup>	Background	TBD	TBD	10550
MW-31	Detection	30° 34' 23.503"	87° 03' 57.754"	10551
MW-32	Water Level	30° 34' 29.819"	87° 03' 43.603"	19594
MW-42	Background	30° 34' 48.715"	87° 04' 01.602"	20430
MW-GS	Compliance	30° 34' 57.942"	87° 03' 27.139"	21807
MW-HS	Compliance	30° 34' 55.062"	87° 03' 27.304"	10510
MW-IS	Compliance	30° 34' 52.522"	87° 03' 27.398"	21808
MW-LS	Compliance	30° 34' 49.811"	87° 03' 27.521"	10511
MW-MS	Compliance	30° 34' 47.118"	87° 03' 27.638"	21809
MW-NS	Compliance	30° 34' 41.591"	87° 03' 27.980"	10512

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- <sup>1</sup> Proposed monitoring well to be installed upon completion of Cell C. Install proposed monitoring well 60 days before initial acceptance of waste and submit new monitoring well information in accordance with Paragraph 3.7.C. Submit proposed new monitoring well coordinates in accordance with Paragraph 3.7.D.

[Rule 62-522, F.A.C., and permit application received on October 11, 2012, and subsequent additional information]

H. Sample groundwater-monitoring wells semiannually for parameters listed below:

Field Parameters	Laboratory Parameters
pH	Ammonia – N
Turbidity	Nitrate/Nitrite
Temperature	Benzene
Specific Conductivity	Trichloroethene
Dissolved Oxygen	Trichloroethane
Static water level in wells before purging	Tetrachloroethene
Colors and Sheens (by observation)	Cis-1,2-Dichloroethene
	Trans-1,2-Dichloroethene
	1,1-Dichloroethene
	Chloroethane
	Vinyl Chloride
	Sodium
	Chlorides
	Arsenic
	Iron
	Manganese

I. Ground Water Sampling

1. Measure water levels in each monitoring well in a single day.
2. Measure water levels on the sample day and recorded prior to evacuating the wells or collecting samples.
3. At each well site, record water level, top of well casing and land surface elevations at a precision of plus or minus 0.01 feet NAVD for each analysis report
4. Prior to sampling, stabilize the field parameters for each well.
5. Use sampling and purging methods in the Standard Operating Procedures, as allowed in Chapter 62-160, F.A.C.

J. Sample all surface water test sites semiannually for the parameters listed below.

No surface water test sites are available for sampling. Paragraph 3.7.J is not applicable.

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K. Sample leachate annually for the parameters listed below

No leachate sampling required. Paragraph 3.7.K is not applicable.

L. Water Sample Analysis

1. Conduct analysis of all samples using approved State and Federal analytical methods with detection limits at or below the maximum allowable concentrations for all parameters, whenever possible.
2. Background water quality shall be sampled and analyzed in accordance with the provisions of Rule 62-701.510(5) (b), F.A.C.
3. Sample and analyze all background and detection wells at least once prior to permit renewal for those parameters listed in Rule 62-701.510(7) (a), F.A.C.

M. The owner or operator of a solid waste disposal unit may request a permit modification from the appropriate District Office of the Department to delete specific monitoring parameters or field parameters from routine analysis of detection or compliance wells and surface water. The Department will grant such modification upon a demonstration that these parameters are not reasonably expected to be in or derived from the waste contained in the unit, or are not reasonably expected to be detected in the ground water as a result of the operations of the facility.  
[Rule 62-701.510(5), F.A.C.]

N. Measure rainfall at the site on a daily basis and the results submitted with the semiannual reports.

O. Water Quality Reporting

1. Report all representative water quality monitoring results to the Department within 60 days from completion of laboratory analysis. In accordance with Rule 62-160.240(3), F.A.C. and Rule 62-160.340(4), F.A.C., water quality data contained in the report shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases [See Paragraph 3.7.P]. The owner or operator shall include DEP Form 62-701.900(31), Water Quality Monitoring Certification provided as Attachment 5. The operator of the landfill shall notify the Department at least 14 days before the sampling is scheduled to occur so that the Department may collect split samples.  
[Rule 62-701.510(8) (a), F.A.C.]

The results of each set of semiannual water quality analysis shall be submitted separately, no later than March 1 and September 1 each year, commencing with the September 1, 2013 report.

The report shall include but not be limited to the following:

- a. The facility name and identification number, sample collection dates, and analysis dates;
- b. All analytical results, including all peaks even if below maximum contaminant levels;
- c. Identification number and designation of all surface water and ground water monitoring points;
- d. Applicable water quality standards;

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- e. Quality assurance, quality control notations;
  - f. Method detection limits;
  - g. Water levels recorded prior to evaluating wells or sample collection. Elevation reference shall include the top of the well casing and land surface at each well site at a precision of plus or minus 0.01 foot (using a consistent, nationally recognized datum);
  - h. An updated ground water table contour map signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, with contours at no greater than one-foot intervals unless site-specific conditions dictate otherwise, which indicates ground water elevations and flow direction; and
  - i. A summary of any water quality standards or criteria that are exceeded.
2. Submit the latitude and longitude location for each monitoring well with the semiannual water quality analysis results.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
  3. Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.

P. Electronic Submission of Water Quality Analysis

1. Submit the results of each set of water quality analysis electronically on compact disc media readable by a Microsoft Windows computer.

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

And to:

Florida Department of Environmental Protection  
Bob Martinez Center  
Solid Waste Section  
2600 Blair Stone Road  
MS 4565  
Tallahassee, Florida, 32399-2400

The data shall be evaluated using ADaPT to conduct data quality review and compliance checking. The owner or operator shall include DEP Form 62-701.900(31), Water Quality Monitoring Certification provided as Attachment 5 with each report certifying that the laboratory results have been reviewed and approved by the owner or operator. To download the appropriate version of the ADaPT software for data entry and submittals and for other general information related to the use of ADaPT, go to the DEP's web site at:

<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>

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The ADaPT water quality analysis shall be submitted electronically on compact disc media readable by a Microsoft Windows computer. Electronic laboratory data must be submitted in a specific format called an Electronic Data Deliverable (EDD). The submittal shall also include Chain of Custody sheets, field data sheets (Form FD 9000-24 provided as Attachment 6), groundwater contour maps, water elevation table, summary of exceedances, recommendations, and the Groundwater Monitoring Report Certification. The Department will use ADaPT to conduct data quality review and compliance checking.

[Rule 62-160.240(3), F.A.C. and Rule 62-160.340(4), F.A.C.]

- 2. The following data fields must be present in the data:

Analytical Method	Analytical Result
Analytical Result Units	Appropriate Data Qualifiers (as listed in Chapter 62-160, F.A.C.)
Date of Analysis	Date of Preparation (if applicable)
Date of Sampling	Detection Limit of the Analysis
DOH Certification Number of the Laboratory	Facility Identification Number
Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)	Parameter Name (Name of the Compound Analyzed for/Test Performed)
	Test site ID

- 3. If documents require a professional certification, submit original signed and sealed paper documents unless a specific law or rule allows an electronic signature.

[Rule 62-701.510(5), F.A.C. and Rules 62-701.510(7) (a), (b) and (c), F.A.C.]

- Q. If at any time it is determined that any well in the routine monitoring system is not functioning properly and is not providing representative water quality samples, the owner or operator shall have the wells evaluated, redeveloped, or replaced such that representative samples will be obtained during the next required routine sampling event.

Any well requiring redevelopment should be surged with formation water or a surge block, only. Consider replacing wells, which still produce sediment and high turbidity. Evaluate wells with high turbidity using the procedures called for in Rule 62-520.300(9), F.A.C.

Design, install and complete any well requiring replacement in accordance with the suggested practices of document ASTM D5092.

[Rule 62-701.510, F.A.C. and Rule 62-522, F.A.C.]

- R. Evaluation monitoring, prevention measures and corrective action

- 1. Evaluation Monitoring. If monitoring parameters are detected in detection wells in concentrations that are significantly above background water quality, or that are at levels above

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the Department's water quality standards or criteria specified in Chapter 62-520, F.A.C., the owner or operator may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the owner or operator choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the owner or operator chooses not to resample, the owner or operator shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the owner or operator shall initiate evaluation monitoring in accordance with Rule 62-701.510(6) (a), F.A.C.

2. If the parameters detected in the detection wells identified in Rule 62-701.510(6) (a), F.A.C., consist only of iron, aluminum, manganese, sulfates, or total dissolved solids (TDS), either individually or in any combination, then only the detected parameters are required to be monitored in the representative background wells, affected detection wells and downgradient compliance wells required in this section rather than the parameters listed in Rule 62-701.510(7) (a), F.A.C. and Rule 62-701.510(7) (c), F.A.C. However, if the facility is unlined, the parameters specified in Rule 62-701.510(7) (a), F.A.C. shall also be analyzed for in the initial sampling event for the affected detection wells and downgradient compliance wells.
3. Corrective actions. If any contaminants are detected and confirmed in compliance wells in concentrations that exceed both background levels and Department water quality standards or criteria, the owner or operator shall notify the Department within 14 days of this finding and shall initiate corrective actions. Evaluation monitoring shall continue according to the requirements of Rule 62-701.510(6) (a), F.A.C.

The owner or operator shall initiate and complete corrective actions in accordance with Chapter 62-780, F.A.C. within the manner and timeframes specified therein and provide a site assessment report (SAR) in accordance with Rule 62-780.600, F.A.C. that meets the objectives of said Rule within the manner and timeframes specified therein.

- S. All water quality monitoring required by this permit shall be in accordance with Rules 62-520.300, F.A.C. and Rule 62-4.246, F.A.C., and shall be carried out under the requirements of DEP-SOP-001/01 FS 2000 or applicable Standard Operating Procedures (SOPs) in accordance with Chapter 62-160, F.A.C.
- T. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department every two and one-half years during the active life of the facility. The report shall summarize and interpret the water quality monitoring results and water level measurements collected during the past two and one-half years. The report shall contain, at a minimum, the following:
  1. Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, TDS, TOC, sulfate, chloride, sodium and iron), including hydrographs for all monitor wells;
  2. Trend analysis of any monitoring parameters consistently detected;
  3. Comparisons among shallow, middle, and deep zone wells;
  4. Comparisons between background water quality and the water quality in detection and compliance wells;
  5. Correlations between related parameters such as total dissolved solids and specific conductance;

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6. Discussion of erratic and/or poorly correlated data;
7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

Submit the technical report separately commencing with the March 1, 2015 report.

Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.

[Rule 62-701.510(8) (b), F.A.C.]

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

- T. All field and laboratory records specified in Rule 62-160.600, F.A.C. and Rule 62-160.630, F.A.C., shall be made available to the Department and be retained for the design period of the landfill.  
[Rule 62-701.510(8) (c), F.A.C.]

Appendix 4 – Operation Plan – in Oculus

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175804.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175804.1]&[profile=Permitting_Authorization])

Appendix 5 – Existing Overall Facility Site Plan – in Oculus

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175860.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175860.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175861.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175861.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175862.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175862.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175863.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175863.1]&[profile=Permitting_Authorization])

Appendix 6 – Final Closure Site Plan – in Oculus

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175864.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175864.1]&[profile=Permitting_Authorization])

Appendix 7 – Landfill Gas Plan Sheet – in Oculus

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175853.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175853.1]&[profile=Permitting_Authorization])

Appendix 8 – Water Quality Monitoring Network Site plan – in Oculus

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175840.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175840.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175841.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175841.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175843.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175843.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.175850.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.175850.1]&[profile=Permitting_Authorization])

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### **Time Sensitive Action Chart for Solid Waste Reports**

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

#### **2013**

April 1, 2013	Quarterly Gas Report
July 1, 2013	Quarterly Gas Report
September 1, 2013	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2013	Annual Cost Estimate
October 1, 2013	Quarterly Gas Report

#### **2014**

January 1, 2014	Quarterly Gas Report
February 1, 2014	Waste Quantity Records <a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a> .
February 1, 2014	Estimate of Remaining Life
March 1, 2014	Semiannual Water Quality Monitoring Report (ADaPT)
April 1, 2014	Quarterly Gas Report
July 1, 2014	Quarterly Gas Report
September 1, 2014	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2014	Annual Cost Estimate
October 1, 2014	Quarterly Gas Report

#### **2015**

January 1, 2015	Quarterly Gas Report
February 1, 2015	Waste Quantity Records <a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a> .
February 1, 2015	Estimate of Remaining Life
March 1, 2015	Semiannual Water Quality Monitoring Report (ADaPT)
March 1, 2015	Technical Report (July 2012 – December 2014)
April 1, 2015	Quarterly Gas Report
July 1, 2015	Quarterly Gas Report
September 1, 2015	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2015	Annual Cost Estimate
October 1, 2015	Quarterly Gas Report

#### **2016**

January 1, 2016	Quarterly Gas Report
February 1, 2016	Waste Quantity Records <a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a> .
February 1, 2016	Estimate of Remaining Life
March 1, 2016	Semiannual Water Quality Monitoring Report (ADaPT)
April 1, 2016	Quarterly Gas Report
July 1, 2016	Quarterly Gas Report
September 1, 2016	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2016	Annual Cost Estimate
October 1, 2016	Quarterly Gas Report

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**2017**

January 1, 2017	Quarterly Gas Report	
February 1, 2017	Waste Quantity Records	<a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a> .
February 1, 2017	Estimate of Remaining Life	
March 1, 2017	Semiannual Water Quality Monitoring Report (ADaPT)	
April 1, 2017	Quarterly Gas Report	
July 1, 2017	Quarterly Gas Report	
September 1, 2017	Semiannual Water Quality Monitoring Report (ADaPT)	
September 1, 2017	Technical Report (January 2015 – June 2017)	
September 1, 2017	Annual Cost Estimate	
October 1, 2017	Quarterly Gas Report	

**2018**

January 1, 2018	Quarterly Gas Report	
February 1, 2018	Waste Quantity Records	<a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a> .
February 1, 2018	Estimate of Remaining Life	
March 1, 2018	Semiannual Water Quality Monitoring Report (ADaPT)	
April 1, 2018	Quarterly Gas Report	
July 1, 2018	Quarterly Gas Report	
September 1, 2018	Semiannual Water Quality Monitoring Report (ADaPT)	
September 1, 2018	Annual Cost Estimate	
October 1, 2018	Quarterly Gas Report	



# Department of Environmental Protection

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

DEP Form # 62-701.900(28)  
Form Title: Closure Cost Estimating Form For Solid Waste Facilities  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.630(3), F.A.C.

## CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: \_\_\_\_\_

**I. GENERAL INFORMATION:**

Facility Name: \_\_\_\_\_ WACS ID: \_\_\_\_\_  
 Permit Application or Consent Order No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_  
 Facility Address: \_\_\_\_\_  
 Permittee or Owner/Operator: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 Coordinate Method: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Collected by: \_\_\_\_\_ Company/Affiliation: \_\_\_\_\_

**Solid Waste Disposal Units Included in Estimate:**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing

Total disposal unit acreage included in this estimate:      Closure: \_\_\_\_\_      Long-Term Care: \_\_\_\_\_

Facility type:      \_\_\_\_\_ Class I      \_\_\_\_\_ Class III      \_\_\_\_\_ C&D Debris Disposal  
 (Check all that apply)      \_\_\_\_\_ Other: \_\_\_\_\_

**II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)**

\_\_\_\_\_ Letter of Credit\*      \_\_\_\_\_ Insurance Certificate      \_\_\_\_\_ Escrow Account  
 \_\_\_\_\_ Performance Bond\*      \_\_\_\_\_ Financial Test      \_\_\_\_\_ Form 29 (FA Deferral)  
 \_\_\_\_\_ Guarantee Bond\*      \_\_\_\_\_ Trust Fund Agreement

\* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

**III. ESTIMATE ADJUSTMENT**

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

**(a) Inflation Factor Adjustment**

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website [www.dep.state.fl.us/waste/categories/swfr](http://www.dep.state.fl.us/waste/categories/swfr) or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated: \_\_\_\_\_

Latest Department Approved Closing Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Closing Cost Estimate:
_____		_____		_____

This adjustment is based on the Department approved long-term care cost estimate dated: \_\_\_\_\_

Annual Long-Term Care Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____		_____		_____
Number of Years of Long Term Care Remaining:			X	_____
<b>Inflation Adjusted Long-Term Care Cost Estimate:</b>			=	_____

**Signature by:**     **Owner/Operator**     **Engineer**    (check what applies)

Signature	Address
Name & Title	City, State, Zip Code
Date	E-Mail Address (if available)
Telephone Number	

**(b) Recalculated or New Cost Estimates** (see Section IV)

**IV. ESTIMATED CLOSING COST (check what applies)**

Recalculated Cost Estimate

New Facility Cost Estimate

**\*\* For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.**

**\*\* Cost estimate must be certified by a professional engineer (see Section VI).**

**\*\* Costs must be for a third party providing all material, equipment and labor which is at least at fair market value.**

**\*\* In some cases, a price quote in support of individual item estimates may be required.**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>1. Proposed Monitoring Wells</b> (Do not include wells already in existence.)				
	EA	_____	_____	_____
			Subtotal Monitoring Wells:	_____
<b>2. Slope and Fill (bedding layer between waste and barrier layer):</b>				
Excavation	CY	_____	_____	_____
Placement and Spreading	CY	_____	_____	_____
Compaction	CY	_____	_____	_____
Off-Site Material	CY	_____	_____	_____
Delivery	CY	_____	_____	_____
			Subtotal Slope and Fill :	_____
<b>3. Cover Material (Barrier Layer):</b>				
Off-Site Clay	CY	_____	_____	_____
Synthetics - 40 mil	SY	_____	_____	_____
Synthetics - GCL	SY	_____	_____	_____
Synthetics - Geonet	SY	_____	_____	_____
Synthetics - Other (describe)	_____	_____	_____	_____
			Subtotal Barrier Layer Cover:	_____
<b>4. Top Soil Cover:</b>				
Off-Site Material	CY	_____	_____	_____
Delivery	CY	_____	_____	_____
Spread	CY	_____	_____	_____
			Subtotal Top Soil Cover:	_____
<b>5. Vegetative Layer</b>				
Sodding	SY	_____	_____	_____
Hydroseeding	AC	_____	_____	_____
Fertilizer	AC	_____	_____	_____
Mulch	AC	_____	_____	_____
Other (describe)	_____	_____	_____	_____
			Subtotal Vegetative Layer:	_____
<b>6. Stormwater Control System:</b>				
Earthwork	CY	_____	_____	_____
Grading	SY	_____	_____	_____
Piping	LF	_____	_____	_____
Ditches	LF	_____	_____	_____
Berms	LF	_____	_____	_____
Control Structures	EA	_____	_____	_____
Other (describe)	_____	_____	_____	_____
			Subtotal Stormwater Control:	_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>7. Gas Control: Passive</b>				
Wells	EA	_____	_____	_____
Pipe and Fittings	LF	_____	_____	_____
Monitoring Probes	EA	_____	_____	_____
NSPS/Title V requirements	LS	_____	_____	_____
			Subtotal Passive Gas Control:	_____
<b>8. Gas Control: Active Extraction</b>				
Traps	EA	_____	_____	_____
Sumps	EA	_____	_____	_____
Flare Assembly	EA	_____	_____	_____
Flame Arrestor	EA	_____	_____	_____
Mist Eliminator	EA	_____	_____	_____
Flow Meter	EA	_____	_____	_____
Blowers	EA	_____	_____	_____
Collection System	LF	_____	_____	_____
Other (describe)	_____	_____	_____	_____
			Subtotal Active Gas Extraction:	_____
<b>9. Security System:</b>				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
			Subtotal Security System:	_____
<b>10. Engineering:</b>				
Closure Plan report	LS	_____	_____	_____
Certified Engineering Drawings	LS	_____	_____	_____
NSPS/Title V Air Permit	LS	_____	_____	_____
Final Survey	LS	_____	_____	_____
Certification of Closure	LS	_____	_____	_____
Other (describe)	_____	_____	_____	_____
			Subtotal Engineering:	_____

DESCRIPTION	HOURS	LS	HOURS	LS	TOTAL
11. Professional Services					
	Contract Management		Quality Assurance		
P.E. Supervisor	_____	_____	_____	_____	_____
On-Site Engineer	_____	_____	_____	_____	_____
Office Engineer	_____	_____	_____	_____	_____
On-Site Technician	_____	_____	_____	_____	_____
Other (explain)	_____	_____	_____	_____	_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	_____	_____	_____
Subtotal Professional Services:				_____

**Subtotal of 1-11 Above:** \_\_\_\_\_

12. Contingency \_\_\_\_\_ % of Total \_\_\_\_\_

**Closing Cost Subtotal:** \_\_\_\_\_

13. Site Specific Costs (explain)					
Mobilization					_____
Waste Tire Facility					_____
Materials Recovery Facility					_____
Special Wastes					_____
Leachate Management System Modification					_____
Other					_____

Subtotal Site Specific Costs: \_\_\_\_\_

**TOTAL CLOSING COSTS:** \_\_\_\_\_

**V. ANNUAL COST FOR LONG-TERM CARE**

(Check Term Length)

\_\_\_\_\_ 5 Years      \_\_\_\_\_ 20 Years      \_\_\_\_\_ 30 Years  
 \_\_\_\_\_ Other      \_\_\_\_\_ Years

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**\*\*Cost estimates must be certified by a professional engineer (see Section VI).**

**\*\* Costs must be for a third party providing all material, equipment and labor which is at least at fair market value.**

**\*\* In some cases, a price quote in support of individual item estimates may be required.**

**All items must be addressed.** Attach a detailed explanation for all items marked not applicable (N/A)

DESCRIPTION	SAMPLING		NUMBER OF WELLS	\$ / WELL / EVENT	\$ / YEAR
	FREQUENCY (EVENT/YEAR)				
<b>1. Groundwater Monitoring [62-701.510(6), and (8)(a)]</b>					
Monthly	12	_____	_____	_____	_____
Quarterly	4	_____	_____	_____	_____
Semi-Annually	2	_____	_____	_____	_____
Annually	1	_____	_____	_____	_____
				Subtotal Groundwater Monitoring:	_____
<b>2. Surface Water Monitoring [62-701.510(4), and (8)(b)]</b>					
Monthly	12	_____	_____	_____	_____
Quarterly	4	_____	_____	_____	_____
Semi-Annually	2	_____	_____	_____	_____
Annually	1	_____	_____	_____	_____
				Subtotal Surface Water Monitoring:	_____
<b>3. Gas Monitoring [62-701.400(10)]</b>					
Monthly	12	_____	_____	_____	_____
Quarterly	4	_____	_____	_____	_____
Semi-Annually	2	_____	_____	_____	_____
Annually	1	_____	_____	_____	_____
				Subtotal Gas Monitoring:	_____
<b>4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]</b>					
Monthly	12	_____	_____	_____	_____
Quarterly	4	_____	_____	_____	_____
Semi-Annually	2	_____	_____	_____	_____
Annually	1	_____	_____	_____	_____
Other (describe)	_____	_____	_____	_____	_____
				Subtotal Leachate Monitoring:	_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>5. Leachate Collection/Treatment Systems Maintenance</b>				
<u>Maintenance</u>				
Collection Pipes	LF	_____	_____	_____
Sumps, Traps	EA	_____	_____	_____
Lift Stations	EA	_____	_____	_____
Cleaning	LS	_____	_____	_____
Tanks	EA	_____	_____	_____
<u>Impoundments</u>				
Liner Repair	SY	_____	_____	_____
Sludge Removal	CY	_____	_____	_____
<u>Aeration Systems</u>				
Floating Aerators	EA	_____	_____	_____
Spray Aerators	EA	_____	_____	_____
<u>Disposal</u>				
Off-site	1000 gallon	_____	_____	_____
(Include Transportation and Disposal)		Subtotal LCS/Treatment System Maintenance:		_____

DESCRIPTION	UNIT	HOURS	\$/HOUR	TOTAL
<b>6. Leachate Collection/Treatment Systems Operation</b>				
<u>Operation</u>				
P.E. Supervisor	HR	_____	_____	_____
On-Site Engineer	HR	_____	_____	_____
Office Engineer	HR	_____	_____	_____
OnSite Technician	HR	_____	_____	_____
Materials	LS	_____	_____	_____
		Subtotal LCS/Treatment System Operation:		_____

<b>7. Maintenance of Groundwater Monitoring Wells</b>				
Monitoring Wells	LF	_____	_____	_____
Replacement	EA	_____	_____	_____
Abandonment	EA	_____	_____	_____
		Subtotal Groundwater Monitoring Well Maintenance:		_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>8. Gas System Maintenance</b>				
Piping, Vents	LF	_____	_____	_____
Blowers	EA	_____	_____	_____
Flaring Units	EA	_____	_____	_____
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	_____	_____	_____
		Subtotal Gas System:		_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
9. Landscape Maintenance				
Mowing	AC	_____	_____	_____
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				_____
10. Erosion Control & Cover Maintenance				
Sodding	SY	_____	_____	_____
Regrading	AC	_____	_____	_____
Liner Repair	SY	_____	_____	_____
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				_____
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	_____	_____	_____
Subtotal Storm Water System Maintenance:				_____
12. Security System Maintenance				
Fences	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System:				_____
13. Utilities	LS	_____	_____	_____
Utilities Subtotal:				_____

DESCRIPTION	UNIT	HOURS	\$/HOUR	TOTAL
14. Administrative				
P.E. Supervisor	HR	_____	_____	_____
On-Site Engineer	HR	_____	_____	_____
Office Engineer	HR	_____	_____	_____
OnSite Technician	HR	_____	_____	_____
Other (explain)		_____	_____	_____
Subtotal Administrative:				_____
15. Contingency	_____ % of Total			_____
Subtotal Contingency:				_____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
16. Site Specific Costs (explain)				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**ANNUAL LONG-TERM CARE COST (\$/Year):** \_\_\_\_\_

**NUMBER OF YEARS OF LONG-TERM CARE** \_\_\_\_\_

**TOTAL LONG-TERM CARE COST (\$)** \_\_\_\_\_

**VI. CERTIFICATION BY ENGINEER**

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility, known as \_\_\_\_\_, have been examined by me and found to conform to  
Facility Name

engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name and Title (please type)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Florida Registration Number  
(please affix seal)

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
E-Mail address (if available)

( ) \_\_\_\_\_  
Telephone Number

**VII. SIGNATURE BY OWNER/OPERATOR**

\_\_\_\_\_  
Signature of Applicant

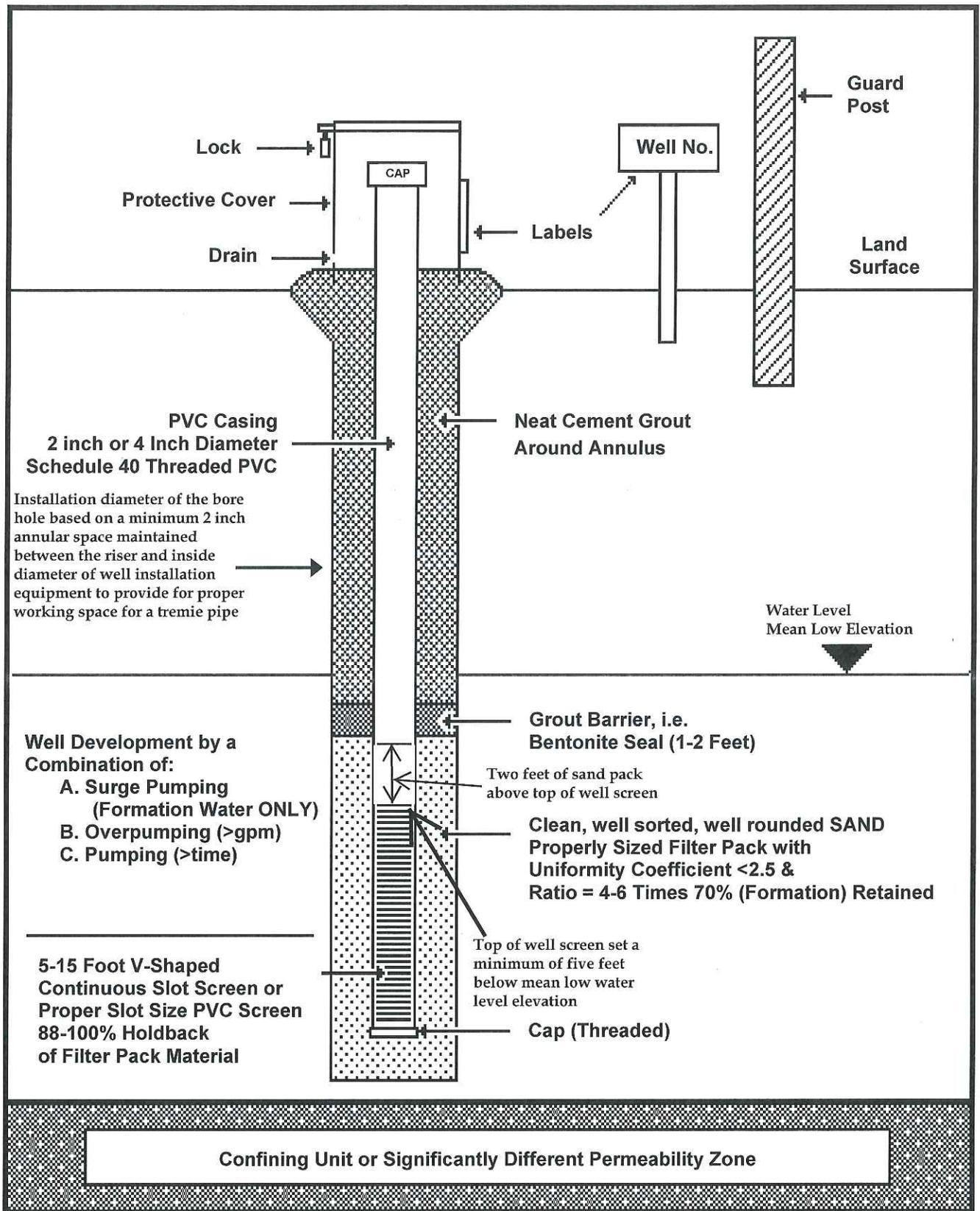
\_\_\_\_\_  
Name and Title (please type)

\_\_\_\_\_  
E-Mail address (if available)

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
City, State, Zip Code

( ) \_\_\_\_\_  
Telephone Number





# 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)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

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

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



# Department of Environmental Protection

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

DEP Form #: 62-701.900(31)  
Form Title: Water Quality Monitoring Certification  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(9)

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_

(2) WACS Facility ID \_\_\_\_\_

(3) DEP Permit Number \_\_\_\_\_

(4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_  
 Email address (if available) \_\_\_\_\_

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

\_\_\_\_\_  
(Date) (Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization \_\_\_\_\_  
 Analytical Lab NELAC / HRS Certification # \_\_\_\_\_  
 Lab Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number ( \_\_\_\_\_ ) \_\_\_\_\_  
 Email address (if available) \_\_\_\_\_

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

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
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 33902-2549  
239-332-6975

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





**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

160 West Government Street, Suite 308  
Pensacola, Florida 32502-5794

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

January 23, 2014

Sent via e-mail to:

[JulianC@santarosa.fl.gov](mailto:JulianC@santarosa.fl.gov)

Mr. Julian C. Coeey, P.G.  
Santa Rosa County Engineering  
Environmental Department  
6065 Old Bagdad Highway  
Milton, Florida 32583

Subject: Remedial Action Plan Modification Approval Order  
Santa Rosa Central Landfill  
6337 Da Lisa Road  
Milton, Santa Rosa County, Florida  
WACS ID No. 12300  
Solid Waste Permit 0001534-013-SO

Dear Mr. Coeey:

The purpose of this Remedial Action Plan Modification (RAP Mod) is to revise the Remedial Action Effectiveness Monitoring Plan originally approved in the May 14, 2001 Remedial Action Plan (RAP) and modified in the April 5, 2003 Remedial Action Modification (RAP MOD). Changes have occurred to the monitoring schedule over time, but these changes have not been formalized in a RAP modification. A Remedial Action Progress Report is submitted annually to evaluate the effectiveness of remedial systems that began operation at the Santa Rosa County Central Landfill in 2001 and at Reinhardt in 2002. Effectiveness of the remedial system is monitored by a network of assessment wells, background wells, compliance wells, detection wells, influent and effluent for the Central and Reinhardt groundwater treatment systems, the leachate, and the Garcon Bagdad potable water well. One recovery well, RW-9 will be monitored as an assessment well. The Monitoring Frequency for the Remedial Action Effectiveness Monitoring Plan is semiannual and sample collection coincides with the semi-annual groundwater monitoring required by Solid Waste Permit 0001534-013-SO, issued April 5, 2013. The Remedial Action Progress Report will continue to compare data gathered before remediation began in 2001 through the most current sampling events. The report will be submitted annually by April 30 for the remaining life of the project beginning with the April 30, 2014 report.

The sampling required for RAP effectiveness monitoring does not change the Department approved permit water quality monitoring plan under Permit Number 0001534-013-SO, issued April 5, 2013. The Semiannual Monitoring Reports continue to be due as specified in the permit by March 1 and September 1 from 2014 through 2018. The compliance, detection, and background wells sampled for the Semi-annual groundwater monitoring are also necessary to effectively evaluate the remediation systems. Monitoring will be conducted simultaneously to satisfy both the RAP and permit requirements.

The Remedial Action Effectiveness Monitoring Plan is modified as follows:

Location	Type	Parameters	Frequency	Report Due
IS-1, Central Influent ES-1, Central Effluent IS-2, Reinhardt Influent ES-2, Reinhardt Effluent	Assessment	Iron, Manganese, Benzene, Vinyl Chloride, Color, pH, Specific Conductivity, Dissolved Oxygen, Turbidity, Temperature	Semi-annually	April 30, 2014 and annually on April 30 for the remaining life of the RAP
MW-19, MW-20a, MW-21, MW-40, MW-41, MW-OS, PZ-AS	Assessment		Semi-annually	
MW-33, MW-34, MW-37, MW-38, RW-9, MW-39	Assessment		Semi-annually	
Garcon Bagdad City Well	Potable		Semi-annually	
<b>Landfill Permitted Monitoring Wells</b>				
Location	Type	Parameters by Permit	Frequency	Report Due
MW-10, MW-42	Background	Arsenic, Iron, Manganese, Sodium, Benzene, Vinyl Chloride, Chloroethane, 1,1-Dichloroethene, Cis-1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, Tetrachloroethene, Trichloroethene, Trichloroethane, Chloride, Ammonia-N, Nitrate/Nitrite, Color, pH, Specific Conductivity, Dissolved Oxygen, Turbidity, Temperature	Semi-annually	April 30, 2014 and annually on April 30 for the remaining life of the RAP Plus Reports required by the Solid Waste permit
MW-4, MW-6, MW-8, MW-17, MW-18, MW-31, MW-32 MW-GS, MW-HS, MW-IS, MW-LS, MW-MS, MW-NS,	Compliance	Arsenic, Iron, Manganese, Sodium, Benzene, Vinyl Chloride, Chloroethane, 1,1-Dichloroethene, Cis-1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, Tetrachloroethene, Trichloroethene, Trichloroethane, Chloride,	Semi-annually	April 30, 2014 and annually on April 30 for the remaining life of the RAP plus reports required by the Solid Waste Permit
MW-2, MW-9, MW-14a, MW-29	Detection	Ammonia-N, Nitrate/Nitrite, Color, pH, Specific Conductivity, Dissolved Oxygen, Turbidity, Temperature	Semi-annually	
L-1	Leachate		Semi-annually	

Water elevation data should be collected from every well in this network during each sampling event. At each well site, record water level, top of well casing, land surface elevations. Sample Collection will follow FS 2200 Groundwater Sampling Standard Operating Procedure, DEP-SOP-001/01. The monitoring plan approved in this RAP MOD provides data used to evaluate if the remediation system is accomplishing the corrective action objectives of Chapter 62-780, F.A.C.

#### Legal Issues

The Department's Order shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for an administrative hearing are set forth below.

Persons affected by this Order have the following options:

- (A) If you choose to accept the Department's decision regarding the RAP you do not have to do anything. This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order.
- (B) If you choose to challenge the decision, you may do the following:
  - (1) File a request for an extension of time to file a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order; such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for an administrative hearing; or
  - (2) File a petition for an administrative hearing with the Department's Agency Clerk in the Office of General Counsel within 21 days of receipt of this Order.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

#### How to Request an Extension of Time to File a Petition for an Administrative Hearing

For good cause shown, pursuant to Subsection 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for an administrative hearing. Such a request must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Santa Rosa County, shall mail a copy of the request to Santa Rosa County at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for an administrative hearing must be made.

How to File a Petition for an Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) by the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Santa Rosa County, shall mail a copy of the petition to Santa Rosa County at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Subsection 120.569(2), F.S. and Rule 28-106.201, F.A.C., a petition for an administrative hearing shall contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the facility owner's name and address, if different from the petitioner; the FDEP facility number, and the name and address of the facility;
- (b) A statement of when and how each petitioner received notice of the Department's action or proposed action;
- (c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of the disputed issues of material fact, or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective on the date filed with the Clerk of the Department, which is indicated on the last page of this Order. Timely filing a petition for an administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided to the Department pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Department's Agency Clerk in the Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the Department's clerk (see below).

Any questions regarding the Department's review of your RAP MOD should be directed to Linda Bauer at 850-595-0561 or [linda.bauer@dep.state.fl.us](mailto:linda.bauer@dep.state.fl.us).

Sincerely,



Emile D. Hamilton  
District Director

EDH/lb/m

Enclosures: PE Certification Page

c: Dawn Templin, P.E., FDEP NW District Solid Waste, [Dawn.Templin@dep.state.fl.us](mailto:Dawn.Templin@dep.state.fl.us)  
Michael Dunaway, P.E./P.G., FDEP Solid Waste Section, [Michael.Dunaway@dep.state.fl.us](mailto:Michael.Dunaway@dep.state.fl.us)  
Mike Bland, P.G., FDEP Solid Waste Section, [Mike.Bland@dep.state.fl.us](mailto:Mike.Bland@dep.state.fl.us)

P.E. Certification

Remedial Action Modification (RAP MOD), prepared by Santa Rosa County Environmental Department personnel on behalf of the Santa Rosa County Central Landfill (FDEP WACS Facility # 12300), located at 6337 Da Lisa Road, Milton, Santa Rosa County, Florida. An April 18, 2013 was received on April 19, 2013. The RAP Modification was developed with information provided in this report plus a series of emails and telephone conversations with Julian Cooley, P.G. for Santa Rosa County Engineering.

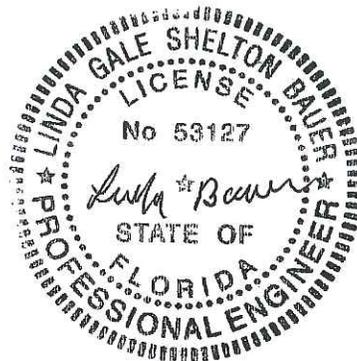
This RAP MOD revises the Remedial Action Effectiveness Monitoring Plan originally approved in the May 14, 2001 Remedial Action Plan (RAP) and modified in the April 5, 2003 Remedial Action Modification (RAP MOD). I hereby certify that in my professional judgment, data gathered using the revised Remedial Action Effectiveness Monitoring Plan will provide Santa Rosa County with the information necessary to evaluate the effectiveness of the remedial treatment systems approved for this facility. Evaluation of the remedial strategy will contribute to the achievement of the site remediation goals. The RAP MOD will support Santa Rosa County's efforts to comply with the requirements set forth in Chapter 62-701, Florida Administrative Code, Florida Administrative Code.

*Linda Bauer*

Linda Bauer, P.E. No. 53127  
Florida Department of Environmental Protection  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

*January 21, 2014*

Date



**HOLLEY LANDFILL PERMIT**



# Florida Department of Environmental Protection

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## NOTICE OF PERMIT ISSUANCE

June 12, 2012

In the matter of an  
Application for Permit by:

DEP File No. 0064364-005-SF  
Santa Rosa County

Sent via e-mail to:  
[jerrela@santarosa.fl.gov](mailto:jerrela@santarosa.fl.gov)

Mr. Jerrel Anderson, P.E.  
Solid Waste Department  
Santa Rosa County  
6075 Old Bagdad Highway  
Milton, Florida 32583

Dear Mr. Anderson:

Enclosed is the Permit to provide maintenance and long-term care for a closed Class I landfill known as Holley Landfill Closed Class I (DEP Permit No. 0064364-005-SF; Facility Identification No.:12299). This facility is located on Five Forks Road, approximately 1 mile north of State Road 87 in Navarre, Santa Rosa County, Florida. The permit is issued pursuant to Section 403.707, Florida Statutes (F.S.) and Chapter 62-701, Florida Administrative Code (F.A.C.).

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;

- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel,

2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



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J. Charles Harp  
Waste Program Administrator

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
(850) 595-8300

FILED, on this date, pursuant to §120.52(9), Florida Statutes, with the designated Department clerk, receipt of which is hereby acknowledged.



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Clerk

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06-12-2012

Date

Copies furnished to:

Lee Martin, P.E., Solid Waste Management, [lee.martin@dep.state.fl.us](mailto:lee.martin@dep.state.fl.us)  
Susan Eldredge, Solid Waste Financial Assurance,  
[solid.waste.financial.coordinator@dep.state.fl.us](mailto:solid.waste.financial.coordinator@dep.state.fl.us)  
Julian C. Cooley, P.G., Santa Rosa County, [julianc@santarosa.fl.gov](mailto:julianc@santarosa.fl.gov)

You can view this and other documents for this facility at the following internet link:

[http://appprod.dep.state.fl.us/WWW\\_WACS/REPORTS/SW\\_Facility\\_Docs.asp?wacsid=12299](http://appprod.dep.state.fl.us/WWW_WACS/REPORTS/SW_Facility_Docs.asp?wacsid=12299)



# Florida Department of Environmental Protection

Northwest District  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740

Rick Scott  
 Governor

Jennifer Carroll  
 Lt. Governor

Herschel T. Vinyard Jr.  
 Secretary

**Permit Issued to:**

Permittee Name:	Santa Rosa County Board of County Commissioners
Permittee Address:	6075 Old Bagdad Highway
Permittee City, State, Zip:	Milton, Florida 32583
Phone Number:	850-981-7135
Facility WACS ID No.:	12299
Facility Name:	Holley Landfill Closed Class I
Facility Address:	River Road 1 mile north of State Road 87
Facility City, State, Zip:	Navarre, Florida 32566
Facility County:	Santa Rosa
Facility Latitude / Longitude:	30° 27'30.00" N / 86° 52'30.00" W

**Solid Waste Renewal Permit - Landfill Long-Term Care**

Permit No.:	0064364-005-SF
Replaces Permit No.:	0064364-001-SF
Permit Issued:	June 12, 2012
Permit Expires:	June 11, 2022

**Permitting Authority**  
 Florida Department of Environmental Protection  
 Northwest District Office  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740  
 (850) 595-8300

## **SECTION 1 - SUMMARY INFORMATION**

### **A. Authorization**

The permittee is hereby authorized to provide maintenance and long-term care for the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste long-term care permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code Chapters 62-4 and 62-701.

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

### **B. Facility Location**

This facility is located on Five Forks Road, approximately 1 mile north of State Road 87 in Navarre, Santa Rosa County, Florida.

### **C. Facility Description**

Provide maintenance and long-term care for a closed 80-acre Class I Landfill.

### **D. Appendices Made Part of This Permit**

APPENDIX 1 - General Conditions

APPENDIX 2 - Approved Application Documents

APPENDIX 3 - Water Quality Monitoring Plan

### **E. Attachments for Informational Purposes Only**

ATTACHMENT 1 - Time Sensitive Action Chart

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

ATTACHMENT 2 - Site Map

ATTACHMENT 3 - NWD Basic Monitoring Well Design in a Water Table Aquifer

ATTACHMENT 4 - Form 62-701.900(30) Monitoring Well Completion Report

ATTACHMENT 5 - Form 62-701.900(31) Water Quality Monitoring Certification

ATTACHMENT 6 - Form FD 9000-24 Groundwater Sampling Log  
SECTION 2 - SPECIFIC CONDITIONS

**A. Administrative Requirements**

1. Documents Part of This Permit. The permit application as revised in final form replaced or amended in response to the Department's Request(s) for Additional Information are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or permittee's legal name is changed.
5. Air Construction Permit Requirements
  - a. The landfill owner or operator is not required to obtain an air construction permit, unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Department of Environmental Protection, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
  - b. The landfill owner or operator is not required to obtain an air operating permit, unless the landfill is required to obtain a Title V Air Operating Permit (Title V Permit) pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V Permit if the landfill (or the total facility, if the landfill is contiguous to or part of a larger facility) has the potential to emit 10 tons per year (TPY) or more of any hazardous air pollutant, 25 TPY or more of any combination of hazardous air pollutants, or 100 TPY or more of any other regulated air pollutant. A landfill is also required to obtain a Title V Permit if the maximum design capacity, as defined in 40 CFR 60, Subpart WWW, is equal to or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V Permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, F.A.C., and Chapter 62-213, F.A.C. Title V applications shall be submitted to the District Air Program Administrator.

- c. The Permittee is required to comply with the requirements of 40 CFR 60, Subpart WWW and CC as adopted by reference in Rule 62-204.800, F.A.C. The Permittee may have to submit to the Division of Air Resource Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 6-.757(a)(3) and (b).

#### **B. Construction Requirements**

1. Construction authorized. This Permit does not authorize any construction activities.

#### **C. Operation Requirements**

1. General Operating Requirements. Post closure long-term Care for this Class I Landfill shall be in accordance with Chapter 62-701, F.A.C., previous permits, permit applications and permit application received on March 20, 2012, and subsequent incompleteness information.

#### **D. Water Quality Monitoring Requirements**

1. Zone of Discharge. The zone of discharge for this facility shall be a three dimensional volume described as:
  - a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in Figure 1
  - b. The vertical ZOD shall extend from the land surface down to the top of the low permeability Zone at approximately -167 feet North American Vertical Datum (NAVD).

The permittee shall ensure that Class G-II water quality standards will not be exceeded at the boundary of the zone of discharge, per Rule 62-520.420, F.A.C., and that ground water minimum criteria will not be exceeded outside the boundary of the zone of discharge, per Rule 62-701.320(17), F.A.C.

2. Electronic Reporting. Required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:
  - a. Cover letter;
  - b. Summary of exceedances and sampling problems, if any (e.g., variation from SOP field criteria);

- c. Conclusions and recommendations;
- d. Ground water contour maps;
- e. Chain of custody forms;
- f. Water levels, water elevation table;
- g. Ground Water Monitoring Report Certification, using the appropriate Department form;
- h. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
- i. Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

With copy to:

Florida Department of Environmental Protection  
Solid Waste Section, MS 4565  
2600 Blair Stone Road  
Tallahassee, Florida, 32399-2400

3. Water Quality Monitoring Plan. The Water Quality Monitoring Plan for this permit is included in APPENDIX 3.
4. Evaluation Monitoring. Evaluation Monitoring is not required at this facility.
5. Ground Water Assessment. The permittee shall carry out the corrective actions for ground water contamination set forth in the approved Contamination Assessment Plan of August 18, 1988, and any subsequent approved documents or changes

#### **E. Gas Management System Requirements**

1. Construction Requirements. This Permit does not authorize any construction activities.
2. Certification of Construction Completion. This Permit does not authorize any construction activities.
3. Operational Requirements. Gas controls shall be operated and maintained so that they function as designed.
4. Monitoring Requirements. Monitoring for methane gas at the property boundary and within structures on the property shall be performed quarterly to determine the effectiveness of the gas migration controls. The gas monitoring results shall be reported as a percent of the lower explosive limit (LEL), calibrated to methane. The report shall be submitted to the Department under separate cover on or before January 1, April 1,

July 1 and October 1 of each year. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

5. Gas Remediation Plan. The facility landfill gas management system shall be operated to prevent the concentration of combustible gases from exceeding 25% of the lower explosive limit in structures, excluding gas control or recovery components, and from exceeding the lower explosive limit at or beyond the property boundary. If either of these limits is exceeded then a gas remediation plan shall be designed and implemented in accordance with Rule 62-701.530(3)(a), F.A.C.
6. Odor Remediation Plan. The facility shall be operated to control objectionable odors. If objectionable odors are confirmed beyond the property boundary then upon notification by the Department the permittee shall develop and implement an odor remediation plan in accordance with the requirements of Rule 62-701.530(3)(b), F.A.C.

#### **F. Financial Assurance and Cost Estimates**

1. Financial Assurance Mechanism. The permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C. All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

2. Annual Cost Estimates. The permittee shall annually adjust the closure cost estimate(s) for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), F.A.C. and, as applicable, 40 CFR Part 264.142(a) and 264.144(a). An owner or operator using an escrow account shall submit the adjusted estimate(s) between July 1 and September 1.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

with a copy to:

[Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us).

or

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

### G. Closure Requirements

1. Closure Permit Requirements. Closure completed on June 30, 1994.

### H. Long Term Care Requirements

1. Long-Term Care Period. The Permittee shall continue to monitor and maintain the integrity and effectiveness of the final cover as well as other appurtenances of the facility, control erosion, fill subsidences, comply with the ground water monitoring plan and gas monitoring program, and maintain the stormwater system, in accordance with an approved closure plan. This Landfill was closed to incoming waste on April 15, 1992. Long-term care began on June 30, 1994. The long-term care period is scheduled to end on June 30, 2014.
2. Report Submittals: Every five years after issuance of a permit for long-term care, the permittee shall submit a report to the Department that addresses stabilization of the landfill. The submittal shall include the technical report required in Rule 62-701.510(9)(b), F.A.C., and shall also address subsidence, barrier layer effectiveness, storm water management, and gas production and management. For lined landfills, the submittal shall also address leachate collection and removal system effectiveness, leachate quality, and leachate quantity. All submittals in response to this specific condition shall be sent to:  
  
Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502
3. Certification: Following completion of the long-term care period for each solid waste management unit, the owner or operator shall submit to the Department a certification, signed and sealed by a professional engineer, verifying that long-term care has been completed in accordance with the closure plan has been placed in the operating record.
4. Erosion Control: Erosion control measures shall be employed to correct any erosion which exposes waste or causes malfunction of the storm water management system. Such measures shall be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence, the landfill operator shall notify the Department and propose a correction schedule.

5. Housekeeping. The facility shall be operated to control dust, vectors, litter and objectionable odors. If objectionable odors are confirmed beyond the landfill property boundary, the owner or operator shall comply with the gas management requirement in Section 2, Part E.
  
6. Stormwater. Leachate shall not be discharged into the stormwater management system. Stormwater or other surface water which comes into contact with or mixes with the solid waste or leachate shall be considered leachate and is subject to the requirements of Rule 62-701.500(8), F.A.C.

Executed in Escambia County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



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J. Charles Harp  
Waste Program Administrator

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
(850) 595-8300

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk, receipt of which is hereby acknowledged.



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Clerk      06-12-2012  
Date

This and other documents for this facility may be viewed at the following internet link:

[http://approd.dep.state.fl.us/WWW\\_WACS/REPORTS/SW\\_Facility\\_Docs.asp?wacsid=12299](http://approd.dep.state.fl.us/WWW_WACS/REPORTS/SW_Facility_Docs.asp?wacsid=12299)

## General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the Department approves the transfer.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (BACT)
  - b. Determination of Prevention of Significant Deterioration (PSD)
  - c. Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
  - d. Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - (1) The date, exact place, and time of sampling or measurements;
    - (2) The person responsible for performing the sampling or measurements;
    - (3) The dates analyses were performed;
    - (4) The person responsible for performing the analyses;
    - (5) The analytical techniques or methods used;
    - (6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

## APPENDIX 2 - Approved Application Documents

Submittal received March 20, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.143324.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.143324.1]&[profile=Permitting_Authorization])

Application	complete
Parts A-C	complete
Part D	incomplete
Parts E-K	complete
Part L	incomplete
Parts M-Q	complete
Part R	incomplete
Parts S	complete

Submittal received April 10, 2012

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.145608.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.145608.1]&[profile=Permitting_Authorization])

[http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.145559.1\]&\[profile=Permitting\\_Authorization\]](http://dwmedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.145559.1]&[profile=Permitting_Authorization])

Part D (Revised)	complete
Part L (Revised)	complete

Submittal received April 23, 2012

[http://dwmedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.149145.1\]](http://dwmedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.149145.1])

Part R (Revised)	complete
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## Water Quality Monitoring Plan

- A. A facility's zone of discharge shall be determined pursuant to [Chapter 62-520, F.A.C.](#) The zone of discharge shall not exceed 100 feet from the edge of those solid waste disposal units permitted to be constructed, unless modified in accordance with [Rule 62-520.470, F.A.C.](#)  
[Rule 62-701.320(18), F.A.C.]
1. The allowable zone of discharge (ZOD) for this facility shall be as follows:
    - a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in Attachment 2.
    - b. The vertical ZOD shall extend from the land surface down to the top of the low permeability Zone at approximately - 167 feet North American Vertical Datum (NAVD).
- B. Water Quality Standards and Criteria:
1. Compliance with ground water quality standards shall be met at and beyond the edges of the ZOD in accordance with [Rule 62-520.420, F.A.C.](#) and as contained in [Rule 62-550.310, F.A.C.](#) and [Rule 62-550.320, F.A.C.](#)
  2. The minimum ground water criteria specified in [Rule 62-520.400, F.A.C.](#), shall apply only outside the permitted zone of discharge, notwithstanding the provisions of [Rule 62-520.400 and Rule 62-520.420, F.A.C.](#) However, exceedances of ground water criteria within a permitted zone of discharge shall continue to require evaluation monitoring and prevention measures in accordance with Rule 62-701.510(7), F.A.C.  
[Rule 62-701.320(17), F.A.C.]
  3. Comply with surface water quality criteria in accordance with [Rule 62-302.530, F.A.C.](#)
  4. Compliance with minimum surface water criteria shall be in accordance with [Rule 62-302.500, F.A.C.](#)
- C. New or replacement monitoring wells, the permittee shall:
1. Obtain well construction permits from the Northwest Florida Water Management District.
  2. Construct in accordance with the guidelines provided on Attachment 3.
  3. Submit sieve analysis for each well and use for proper well design.
  4. Provide appropriate well diameter for reliable and representative water quality results.
  5. Ensure each well has an appropriate screen length.  
[Rule 62-701.510(3) (d) 4, F.A.C.]
  6. Properly develop new wells after installation and after settling.

- 7. Submit lithologic logs, "as-installed" diagrams and descriptions of well development after installation of new wells.
- 8. Submit the latitude and longitude location of each well.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
- 9. Ensure constructed monitoring wells are lockable and are locked at all times. [Rule 62-701.510(3) (d) 5, F.A.C.]

D. The location of each water quality sampling locations, in degrees, minutes and seconds (to two decimal places) of latitude and longitude, and the elevation of the top of the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum, shall be determined by a Florida Licensed Professional Surveyor and Mapper.  
[Rule 62-701.510(3) (d) 1, F.A.C.]

The location information shall include the method the data was collected using the following:

Field Name	Also Known As	Description
Object of Interest	Feature	The object the point represents
Relationship of Point to Object of Interest	Proximity	Identifies how close the point is to the actual object of interest.
Collection Method	Method	The method used to collect the point.
Collection Date	Date	The date the point was collected.
Datum		The reference for measuring locations on the earth's surface.

[Rule 62-701.320(7) (f) 7, F.A.C.]

Upon completion of each well, [Form 62-701.900\(30\), Monitoring Well Completion Report](#), Attachment 4 shall be submitted to the Department to report details of the well construction and location.  
[Rule 62-701.510(3) (d) 1, F.A.C. and Rule 62-701.510(4) (c), F.A.C.]

- E. Existing wells not used in the approved monitoring network for collection of samples or water elevation data shall be properly maintained and locked or shall be properly abandoned in accordance with [Rule 62-532.500\(5\), F.A.C.](#)
- F. Any monitoring wells which are abandoned or which will be covered due to lateral expansions of a landfill or the construction of new solid waste disposal units shall be plugged as necessary so that they do not act as a conduit for any leachate release to the ground water. The Department shall be notified in writing before any monitoring wells are abandoned or plugged. The permittee shall obtain appropriate well abandonment permits from the Northwest Florida Water Management District.  
[Rule 62-701.510(3) (d) 6, F.A.C. and [Rule 62-532.500\(5\), F.A.C.](#)]
- G. The water-quality monitoring network shall consist of ten (10) ground water monitoring wells (1 - background, 1-detection, 7-compliance, 1 - water level), and one (1), leachate collection location. Attachment 2 graphically represents the water quality network. Use the following designations for ground water, and leachate monitoring identification purposes in all future analysis reports:

Sample Location Name	Designation	Location		Test Site Number
		Latitude	Longitude	
MW-3	Water Level	30° 27' 40.79625"	86° 52' 29.88125"	10363
MW-4R	Detection	30° 27' 28.5398"	86° 52' 12.5309"	28344
MW-7R	Compliance	30° 27' 32.5624"	86° 52' 00.1110"	28345
MW-8R	Compliance	30° 27' 38.4717"	86° 52' 27.4668"	28346
MW-9S	Background	30° 27' 40.50317"	86° 52' 08.20281"	19859
MW-10R	Compliance	30° 27' 26.3091"	86° 52' 06.9682"	28347
MW-16R	Compliance	30° 27' 26.1684"	86° 52' 00.4610"	28348
MW-17	Compliance	30° 27' 29.26949"	86° 52' 17.89372"	10553
MW-18	Compliance	30° 27' 32.62590"	86° 52' 25.85774"	10554
PZ-19R	Compliance	30° 27' 29.3236"	86° 52' 00.2226"	28349
L-1	Leachate	Leachate Collection Tank		19860

H. Sample all groundwater-monitoring wells semiannually for parameters listed below:

Field Parameters	Laboratory Parameters
pH	Iron
Turbidity	Manganese
Temperature	Total Dissolved Solids
Specific Conductivity	Benzene
Dissolved Oxygen	Vinyl Chloride
Water Elevations	
Colors and Sheens (by observation)	

I. Ground Water Sampling

1. Measure water levels in each monitoring well in a single day.
2. Measure water levels on the sample day and recorded prior to evacuating the wells or collecting samples.
3. At each well site, record water level, top of well casing and land surface elevations at a precision of plus or minus 0.01 feet NAVD for each analysis report
4. Prior to sampling, stabilize the field parameters for each well.
5. Use sampling and purging methods in the Standard Operating Procedures, as allowed in [Chapter 62-160, F.A.C.](#)

J. Sample all surface water test sites semiannually for the parameters listed below.

No surface water test sites are available for sampling. Paragraph 3.7.J is not applicable.

K. Sample leachate annually for the parameters listed below.

Field parameters	Laboratory parameters
Specific conductivity	Iron
pH	Manganese
Dissolved oxygen	Total Dissolved Solids
Colors, sheens (by observation)	Benzene
	Vinyl Chloride

L. Water Sample Analysis

1. Conduct analysis of all samples using approved State and Federal analytical methods with detection limits at or below the maximum allowable concentrations for all parameters, whenever possible.
2. Background water quality shall be sampled and analyzed in accordance with the provisions of Rule 62-701.510(6) (b), F.A.C.
3. Sample and analyze all background and detection wells at least once prior to permit renewal for those parameters listed in Rule 62-701.510(8) (a), F.A.C.

M. The owner or operator of a solid waste disposal unit may request a permit modification from the appropriate District Office of the Department to delete specific monitoring parameters or field parameters from routine analysis of detection or compliance wells and surface water. The Department will grant such modification upon a demonstration that these parameters are not reasonably expected to be in or derived from the waste contained in the unit, or are not reasonably expected to be detected in the ground water as a result of the operations of the facility.  
 [Rule 62-701.510(6), F.A.C.]

N. Measure rainfall at the site on a daily basis and the results submitted with the semiannual reports.

O. Water Quality Reporting

1. Report all representative water quality monitoring results to the Department within 60 days from completion of laboratory analysis. In accordance with [Rule 62-160.240\(3\), F.A.C.](#) and [Rule 62-160.340\(4\), F.A.C.](#), water quality data contained in the report shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases [See Paragraph 3.7.P]. The owner or operator shall include [DEP Form 62-701.900\(31\), Water Quality Monitoring Certification](#) provided as Attachment 5. The operator of the landfill shall notify the Department at least 14 days before the sampling is scheduled to occur so that the Department may collect split samples.  
 [Rule 62-701.510(9) (a), F.A.C.]

The results of each set of semiannual water quality analysis shall be submitted separately, no later than First day of February and First day of August each year, commencing with the August 1, 2012 report.

The report shall include but not be limited to the following:

- a. The facility name and identification number, sample collection dates, and analysis dates;
  - b. All analytical results, including all peaks even if below maximum contaminant levels;
  - c. Identification number and designation of all surface water and ground water monitoring points;
  - d. Applicable water quality standards;
  - e. Quality assurance, quality control notations;
  - f. Method detection limits;
  - g. Water levels recorded prior to evaluating wells or sample collection. Elevation reference shall include the top of the well casing and land surface at each well site at a precision of plus or minus 0.01 foot (using a consistent, nationally recognized datum);
  - h. An updated ground water table contour map signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, with contours at no greater than one-foot intervals unless site-specific conditions dictate otherwise, which indicates ground water elevations and flow direction; and
  - i. A summary of any water quality standards or criteria that are exceeded.
2. Submit the latitude and longitude location for each monitoring well with the semiannual water quality analysis results.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
  3. Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.
  4. Submit annual leachate analysis results separately, no later than First day of February each year.

P. Electronic Submission of Water Quality Analysis

1. Submit the results of each set of water quality analysis electronically on compact disc media readable by a Microsoft Windows computer.

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

And to:

Florida Department of Environmental Protection  
Bob Martinez Center  
Solid Waste Section  
2600 Blair Stone Road  
MS 4565  
Tallahassee, Florida, 32399-2400

The data shall be evaluated using ADaPT to conduct data quality review and compliance checking. The owner or operator shall include DEP Form 62-701.900(31), Water Quality Monitoring Certification

provided as Attachment 5 with each report certifying that the laboratory results have been reviewed and approved by the owner or operator. To download the appropriate version of the ADaPT software for data entry and submittals and for other general information related to the use of ADaPT, go to the DEP's web site at:

<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>

The ADaPT water quality analysis shall be submitted electronically on compact disc media readable by a Microsoft Windows computer. Electronic laboratory data must be submitted in a specific format called an Electronic Data Deliverable (EDD). The submittal shall also include Chain of Custody sheets, field data sheets (Form FD 9000-24 provided as Attachment 6), groundwater contour maps, water elevation table, summary of exceedances, recommendations, and the Groundwater Monitoring Report Certification. The Department will use ADaPT to conduct data quality review and compliance checking.

[Rule 62-160.240(3), F.A.C. and Rule 62-160.340(4), F.A.C.]

- The following data fields must be present in the data:

Analytical Method	Analytical Result
Analytical Result Units	Appropriate Data Qualifiers (as listed in Chapter 62-160, F.A.C.)
Date of Analysis	Date of Preparation (if applicable)
Date of Sampling	Detection Limit of the Analysis
DOH Certification Number of the Laboratory	Facility Identification Number
Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)	Parameter Name (Name of the Compound Analyzed for/Test Performed)
	Test site ID

- If documents require a professional certification, submit original signed and sealed paper documents unless a specific law or rule allows an electronic signature.

[Rule 62-701.510(6), F.A.C. and Rules 62-701.510(8) (a), (b) and (d), F.A.C.]

- If at any time it is determined that any well in the routine monitoring system is not functioning properly and is not providing representative water quality samples, the owner or operator shall have the wells evaluated, redeveloped, or replaced such that representative samples will be obtained during the next required routine sampling event.

Any well requiring redevelopment should be surged with formation water or a surge block, only. Consider replacing wells, which still produce sediment and high turbidity. Evaluate wells with high turbidity using the procedures called for in [Rule 62-520.300\(9\), F.A.C.](#)

Design, install and complete any well requiring replacement in accordance with the suggested practices of document ASTM D5092.

[Rule 62-701.510, F.A.C. and Rule 62-522, F.A.C.]

R. Evaluation monitoring, prevention measures and corrective action

1. Evaluation Monitoring. If monitoring parameters are detected in detection wells in concentrations that are significantly above background water quality, or that are at levels above the Department's water quality standards or criteria specified in [Chapter 62-520, F.A.C.](#), the owner or operator may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the owner or operator choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the owner or operator chooses not to resample, the owner or operator shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the owner or operator shall initiate evaluation monitoring in accordance with Rule 62-701.510(7) (a), F.A.C.
2. If the parameters detected in the detection wells identified in Rule 62-701.510(7) (a), F.A.C., consist only of iron, aluminum, manganese, sulfates, or total dissolved solids (TDS), either individually or in any combination, then only the detected parameters are required to be monitored in the representative background wells, affected detection wells and downgradient compliance wells required in this section rather than the parameters listed in Rule 62-701.510(8) (a), F.A.C. and Rule 62-701.510(8) (d), F.A.C. However, if the facility is unlined, the parameters specified in Rule 62-701.510(8) (a), F.A.C. shall also be analyzed for in the initial sampling event for the affected detection wells and downgradient compliance wells.
3. Corrective actions. If any contaminants are detected and confirmed in compliance wells in concentrations that exceed both background levels and Department water quality standards or criteria, the owner or operator shall notify the Department within 14 days of this finding and shall initiate corrective actions. Evaluation monitoring shall continue according to the requirements of Rule 62-701.510(7) (a), F.A.C.

The owner or operator shall initiate and complete corrective actions in accordance with [Chapter 62-780, F.A.C.](#) within the manner and timeframes specified therein and provide a site assessment report (SAR) in accordance with [Rule 62-780.600, F.A.C.](#) that meets the objectives of said Rule within the manner and timeframes specified therein.

- S. All water quality monitoring required by this permit shall be in accordance with [Rules 62-520.300, F.A.C.](#) and [Rule 62-4.246, F.A.C.](#), and shall be carried out under the requirements of [DEP-SOP-001/01 FS 2000](#) or applicable Standard Operating Procedures (SOPs) in accordance with [Chapter 62-160, F.A.C.](#)
- T. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department every five years during the long-term care period. The report shall summarize and interpret the water quality and leachate monitoring results and water level measurements collected during the past five years. The report shall contain, at a minimum, the following:

1. Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, TDS, TOC, sulfate, chloride, sodium and iron), including hydrographs for all monitor wells;
2. Trend analysis of any monitoring parameters consistently detected;
3. Comparisons among shallow, middle, and deep zone wells;
4. Comparisons between background water quality and the water quality in detection and compliance wells;
5. Correlations between related parameters such as total dissolved solids and specific conductance;
6. Discussion of erratic and/or poorly correlated data;
7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

Submit the technical report separately, no later than First day of February, commencing with the February 1, 2013, report. Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.

[Rule 62-701.510(9) (b), F.A.C.]

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

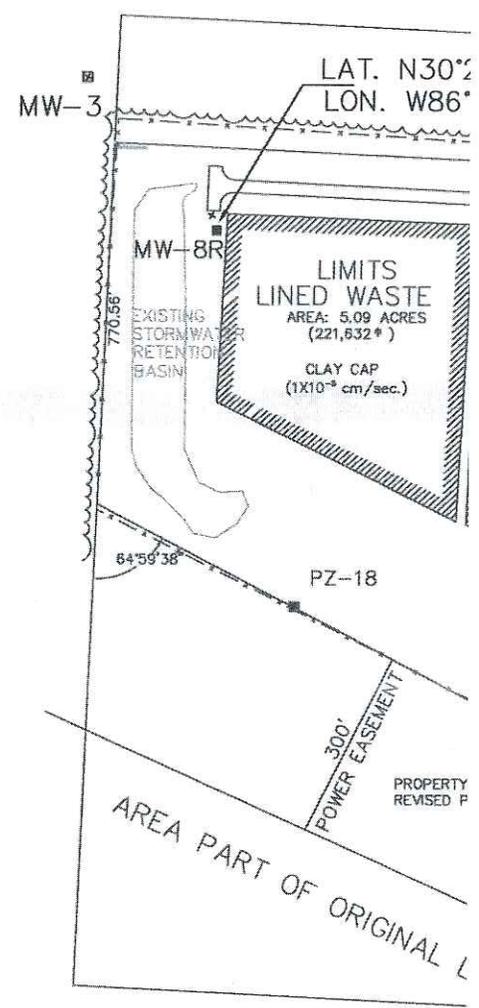
- U. All field and laboratory records specified in [Rule 62-160.600, F.A.C. and Rule 62-160.630, F.A.C.](#), shall be made available to the Department and be retained for the design period of the landfill.

[Rule 62-701.510(9) (c), F.A.C.]

**Time Sensitive Action Chart for Solid Waste Reports**

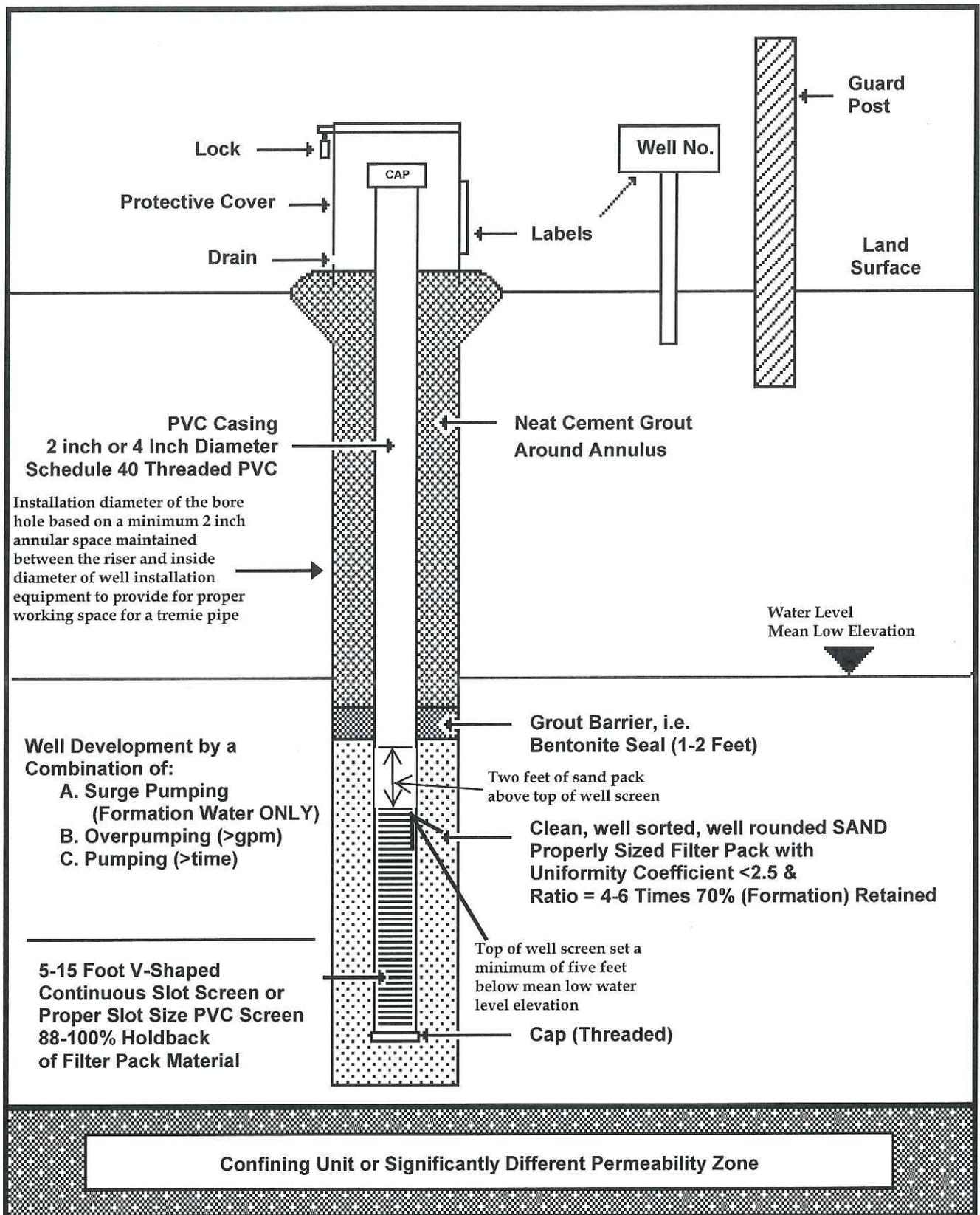
If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

July 1, 2012	Annual Adjustment to Cost Estimates may be submitted
July 1, 2012	Quarterly Gas Monitoring Report
August 1, 2012	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2012	Annual Adjustment to Cost Estimates must be submitted
October 1, 2012	Quarterly Gas Monitoring Report
January 1, 2013	Quarterly Gas Monitoring Report
February 1, 2013	Semiannual Water Quality Monitoring Report (ADaPT)
February 1, 2013	Annual Leachate Analysis Report
February 1, 2013	Technical Report (5-year)
April 1, 2013	Quarterly Gas Monitoring Report
July 1, 2013	Annual Adjustment to Cost Estimates may be submitted
July 1, 2013	Quarterly Gas Monitoring Report
August 1, 2013	Semiannual Water Quality Monitoring Report (ADaPT)
September 1, 2013	Annual Adjustment to Cost Estimates must be submitted
October 1, 2013	Quarterly Gas Monitoring Report
January 1, 2014	Quarterly Gas Monitoring Report
February 1, 2014	Semiannual Water Quality Monitoring Report (ADaPT)
February 1, 2014	Annual Leachate Analysis Report
April 1, 2014	Quarterly Gas Monitoring Report



LEC

- MW(A)-# ASSES
- MW(N)-# NEW
- MW(AB)-# ABANI
- MW(R)-# REPL
- MW-# MONI





# 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)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

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

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



# Department of Environmental Protection

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

DEP Form #: 62-701.900(31)  
Form Title: Water Quality Monitoring Certification  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(9)

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_

(2) WACS Facility ID \_\_\_\_\_

(3) DEP Permit Number \_\_\_\_\_

(4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_  
 Email address (if available) \_\_\_\_\_

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

\_\_\_\_\_  
(Date) (Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization \_\_\_\_\_

Analytical Lab NELAC / HRS Certification # \_\_\_\_\_

Lab Name \_\_\_\_\_

Address \_\_\_\_\_

Phone Number ( \_\_\_\_\_ ) \_\_\_\_\_

Email address (if available) \_\_\_\_\_

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

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
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 33902-2549  
239-332-6975

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



**SRC CLASS III LANDFILL PERMIT**



# Florida Department of Environmental Protection

Northwest District  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740

Rick Scott  
Governor

Herschel T. Vinyard Jr.  
Secretary

## NOTICE OF PERMIT ISSUANCE

October 11, 2013

In the matter of an  
Application for Permit by:

DEP File No. 0001510-005-SF  
Santa Rosa County

Sent via e-mail to:  
[jerrelA@santarosa.fl.gov](mailto:jerrelA@santarosa.fl.gov)

Mr. Jerrel Anderson, P.E.  
Santa Rosa County  
Board of Commissioners  
6065 Old Bagdad Highway  
Milton, Florida 32583

Dear Mr. Anderson:

Enclosed is the Permit renewal for long-term care at the facility known as Santa Rosa Class III Landfill (DEP Permit No. 0001510-005-SF; Facility Identification No.: 12312). This facility is located at the intersection of Pine Forest Road and Carroll Road, Milton, Florida. This permit is issued pursuant to Section 403.707, Florida Statutes (F.S.) and Chapter 62-701, Florida Administrative Code (F.A.C.).

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
J. Charles Harp  
Program Administrator  
Waste Management/Air Resources

160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
850-595-8300

FILED, on this date, pursuant to §120.52(9), Florida Statutes, with the designated Department clerk, receipt of which is hereby acknowledged.



October 11, 2013

Clerk

Date

Copies furnished to:

Lee Martin, P.E., Solid Waste Management, [lee.martin@dep.state.fl.us](mailto:lee.martin@dep.state.fl.us)

Susan Eldredge, Solid Waste Management, [Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)

Julian Cooley, P.G., Santa Rosa County, [Julianc@santarosa.fl.gov](mailto:Julianc@santarosa.fl.gov)

Ron Hixson, Santa Rosa County, [ronh@santarosa.fl.gov](mailto:ronh@santarosa.fl.gov)

You can view this and other documents for this facility at the following internet link:

[http://appprod.dep.state.fl.us/WWW\\_WACS/REPORTS/SW\\_Facility\\_Docs.asp?wacsid=12312](http://appprod.dep.state.fl.us/WWW_WACS/REPORTS/SW_Facility_Docs.asp?wacsid=12312)



# Florida Department of Environmental Protection

Northwest District  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740

Rick Scott  
 Governor

Herschel T. Vinyard Jr.  
 Secretary

**Permit Issued to:**

Permittee Name:	Santa Rosa County Board of County Commissioners
Permittee Address:	6495 Caroline Street, Suite M
Permittee City, State, Zip:	Milton, Florida 32570
Phone Number:	(850) 981-7135
Facility WACS ID No.:	12312
Facility Name:	Santa Rosa Class III Landfill
Facility Address:	6092 Carroll Road
Facility City, State, Zip:	Milton, Florida 32583
Facility County:	Santa Rosa
Facility Latitude / Longitude:	30° 35' 48" N/ 87° 4' 18" W

**Solid Waste Long-Term Care Renewal Permit – Landfill**

Permit No.:	0001510-005-SF
Replaces Permit No.:	0001510-002-SF
Permit Issued:	October 11, 2013
Permit Renewal Application Due Date:	August 11, 2023
Permit Expires:	October 11, 2023

**Permitting Authority**

Florida Department of Environmental Protection  
 Northwest District Office  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502-5740  
 (850) 595 8300

## **SECTION 1 - SUMMARY INFORMATION**

### **A. Authorization**

The permittee is hereby authorized to maintain long-term care for the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste long-term care permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-701.

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

### **B. Facility Location**

The facility is located at 6092 Carroll Road, at the intersection of Pine Forest Road and Carroll Road in Milton, Santa Rosa County, Florida. The location coordinates for this facility are latitude 30° 35' 48" and longitude 87° 4' 18".

### **C. Facility Description**

Maintain a Class III Landfill in long-term care. The original landfill property is approximately 20 acres, having approximately 10.5 acres of total disposal area. Approximately 4 acres was sold to the Department of Transportation as a maintenance yard.

### **D. Appendices Made Part of This Permit**

APPENDIX 1 - General Conditions

APPENDIX 2 – Approved Application Documents

APPENDIX 3 – Water Quality Monitoring Plan

APPENDIX 4 – Long-Term Care Plan

### **E. Attachments for Informational Purposes Only**

ATTACHMENT 1 - Time Sensitive Action Chart

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

ATTACHMENT 2 – Site Plan

ATTACHMENT 3 – Basic Monitor Well Design in a Water Table Aquifer

ATTACHMENT 4 – Monitoring Well Completion Report Form 62-701.900(30)

ATTACHMENT 5 – Water Quality Monitoring Certification Form 62-701.900(31)

ATTACHMENT 6 – Groundwater Sampling Log Form FD 9000-24

## **SECTION 2 - SPECIFIC CONDITIONS**

### **A. Administrative Requirements**

1. Documents Part of This Permit. The permit application, as revised in final form replaced or amended in response to the Department's Request(s) for Additional Information, as applicable, are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or permittee's legal name is changed.
5. Air Construction Permit Requirements
  - a. The landfill owner or operator is not required to obtain an air construction permit, unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Department of Environmental Protection, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an

air construction permit and must obtain such permit prior to beginning any construction or modification.

- b. The landfill owner or operator is not required to obtain an air operating permit, unless the landfill is required to obtain a Title V Air Operating Permit pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V Permit if the landfill (or the total facility, if the landfill is contiguous to or part of a larger facility) has the potential to emit 10 tons per year (TPY) or more of any hazardous air pollutant, 25 TPY or more of any combination of hazardous air pollutants, or 100 TPY or more of any other regulated air pollutant. A landfill is also required to obtain a Title V Permit if the maximum design capacity, as defined in 40 CFR 60, Subpart WWW, is equal to or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V Permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, F.A.C., and Chapter 62-213, F.A.C. Title V applications shall be submitted to the District Air Program Administrator.
- c. The Permittee is required to comply with the requirements of 40 CFR 60, Subpart WWW and CC as adopted by reference in Rule 62-204.800, F.A.C. The Permittee may have to submit to the Division of Air Resource Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 6-.757(a)(3) and (b).

### **B. Construction Requirements**

1. Construction authorized. This Permit does not authorize any construction activities.

### **C. Closure Operation Requirements**

1. General. The facility was certified closed on August 1, 2000.
2. Erosion Control: Erosion control measures shall be employed to correct any erosion which exposes waste or causes malfunction of the storm water management system. Such measures shall be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence, the landfill operator shall notify the Department and propose a correction schedule.
3. Notification of Emergencies. The Permittee shall notify the Department in accordance with 62-701.16, F.A.C. Notification shall be made to the Solid Waste Section of DEP's Northwest District Office at (850) 595-8300
4. Housekeeping. The facility shall be operated to control dust, vectors, litter and objectionable odors. If objectionable odors are confirmed beyond the landfill property boundary, the owner or operator shall comply with the gas management requirement in Section 2, Part E.

#### **D. Water Quality Monitoring Requirements**

1. Zone of Discharge. The zone of discharge for this facility shall be a three dimensional volume described as:
  - a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in Attachment 2.
  - b. The vertical ZOD shall extend from the land surface down to the top of the first continuous low permeability zone.

The permittee shall ensure that Class G-II water quality standards will not be exceeded at the boundary of the zone of discharge, per Rule 62-520.420, F.A.C., and that ground water minimum criteria will not be exceeded outside the boundary of the zone of discharge, per Rule 62-701.320(17), F.A.C.

2. Electronic Reporting. Required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:
  - a. Cover letter;
  - b. Summary of exceedances and sampling problems, if any (e.g., variation from SOP field criteria);
  - c. Conclusions and recommendations;
  - d. Ground water contour maps;
  - e. Chain of custody forms;
  - f. Water levels, water elevation table;
  - g. Ground Water Monitoring Report Certification, using the appropriate Department form;
  - h. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
  - i. Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740

and to:

Florida Department of Environmental Protection  
Solid Waste Section, MS 4565  
2600 Blair Stone Road  
Tallahassee, Florida, 32399-2400

3. Water Quality Monitoring Plan. The Water Quality Monitoring Plan for this permit is included in APPENDIX 3.
4. Evaluation Monitoring. Not applicable.
5. Ground Water Assessment. The permittee shall maintain the ground water remediation system as required by the Remedial Action Plan Approval Order issued September 13, 2004.

#### **E. Gas Management System Requirements**

1. A gas management system is not required for Class III landfills.
2. Odor Remediation Plan. The facility shall be operated to control objectionable odors. If objectionable odors are confirmed beyond the property boundary then upon notification by the Department the permittee shall develop and implement an odor remediation plan in accordance with the requirements of Rule 62-701.530(3)(b), F.A.C.

#### **F. Financial Assurance and Cost Estimates**

1. Financial Assurance. The permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Financial Coordinator - Solid Waste Section  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

2. Annual Cost Estimates. The permittee shall annually adjust each closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), F.A.C., 40 CFR Part 264.142(a) and 40 CFR Part 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate(s) between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate(s) between July 1 and September 1.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740

with a copy to:

[Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)

or

Florida Department of Environmental Protection  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400

### G. Closure Requirements

1. General. The facility was certified closed on August 1, 2000.

### H. Long Term Care Requirements

1. Long-Term Care Period. The Permittee shall continue to monitor and maintain the integrity and effectiveness of the final cover as well as other appurtenances of the facility, control erosion, fill subsidences, comply with the ground water monitoring plan and gas monitoring program, and maintain the stormwater system, in accordance with an approved closure plan (APPENDIX 4). The long-term care period is scheduled to end on August 1, 2030.
2. Every five years after issuance of a permit for long-term care, the permittee shall submit a report to the Department that addresses stabilization of the landfill. The submittal shall include the technical report required in Rule 62-701.510(8)(b), F.A.C., and shall also address subsidence, barrier layer effectiveness, storm water management, and gas production and management. For lined landfills, the submittal shall also address leachate collection and removal system effectiveness, leachate quality, and leachate quantity.
3. Following completion of the long-term care period for each solid waste management unit, the owner or operator shall submit to the Department a certification, signed and sealed by a professional engineer, verifying that long-term care has been completed in accordance with the closure plan has been placed in the operating record.

Executed in Escambia County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



J. Charles Harp  
Program Administrator  
Waste Management/ Air Resources  
Northwest District

PERMITTEE NAME: Santa Rosa County Board of County Commissioners  
FACILITY NAME: Santa Rosa Class III Landfill

PERMIT NO.: 0001510-005-SF  
WACS Facility ID: 12312

160 W. Government Street, Suite 308  
Pensacola, Florida 32502-5740  
(850) 595-8300

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk,  
receipt of which is hereby acknowledged.



\_\_\_\_\_  
Clerk

October 11, 2013  
Date

## General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of noncompliance; and
  - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages, which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the Department approves the transfer.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - a. Determination of Best Available Control Technology (BACT)
  - b. Determination of Prevention of Significant Deterioration (PSD)
  - c. Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
  - d. Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    - (1) The date, exact place, and time of sampling or measurements;
    - (2) The person responsible for performing the sampling or measurements;
    - (3) The dates analyses were performed;
    - (4) The person responsible for performing the analyses;
    - (5) The analytical techniques or methods used;
    - (6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law, which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE NAME: Santa Rosa County Board of County Commissioners  
FACILITY NAME: Santa Rosa Class III Landfill

PERMIT NO.: 0001510-005-SF  
WACS Facility ID: 12312

## **APPENDIX 2 –Application Documents**

Permit Renewal Submittal received October 1, 2013

[http://depdms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.186462.1\]](http://depdms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.186462.1])

[http://depdms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.186448.1\]](http://depdms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.186448.1])

### APPENDIX 3-Water Quality Monitoring Plan

A. A facility's zone of discharge shall be determined pursuant to [Chapter 62-520, F.A.C.](#) The zone of discharge shall not exceed 100 feet from the edge of those solid waste disposal units permitted to be constructed, unless modified in accordance with [Rule 62-520.470, F.A.C.](#)  
[Rule 62-701.320(18), F.A.C.]

1. The allowable zone of discharge (ZOD) for this facility shall be as follows:

- a. The horizontal ZOD shall not exceed 100 feet from the edge of the waste disposal units or property line; whichever is closer, as shown in Attachment 2.
- b. The vertical ZOD shall extend from the land surface down to the top of the first continuous low permeability zone.

B. Water Quality Standards and Criteria:

1. Compliance with ground water quality standards shall be met at and beyond the edges of the ZOD in accordance with [Rule 62-520.420, F.A.C.](#) and as contained in [Rule 62-550.310, F.A.C.](#) and [Rule 62-550.320, F.A.C.](#)
2. The minimum ground water criteria specified in [Rule 62-520.400, F.A.C.](#), shall apply only outside the permitted zone of discharge, notwithstanding the provisions of [Rule 62-520.400 and Rule 62-520.420, F.A.C.](#) However, exceedances of ground water criteria within a permitted zone of discharge shall continue to require evaluation monitoring and prevention measures in accordance with Rule 62-701.510(7), F.A.C.  
[Rule 62-701.320(17), F.A.C.]
3. Comply with surface water quality criteria in accordance with [Rule 62-302.530, F.A.C.](#)
4. Compliance with minimum surface water criteria shall be in accordance with [Rule 62-302.500, F.A.C.](#)

C. New or replacement monitoring wells, the permittee shall:

1. Obtain well construction permits from the Northwest Florida Water Management District.
2. Construct in accordance with the guidelines provided on Attachment 3.
3. Submit sieve analysis for each well and use for proper well design.
4. Provide appropriate well diameter for reliable and representative water quality results.
5. Ensure each well has an appropriate screen length.  
[Rule 62-701.510(3) (d) 4, F.A.C.]
6. Properly develop new wells after installation and after settling.
7. Submit lithologic logs, "as-installed" diagrams and descriptions of well development after installation of new wells.
8. Submit the latitude and longitude location of each well.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
9. Ensure constructed monitoring wells are lockable and are locked at all times. [Rule 62-701.510(3) (d) 5, F.A.C.]

D. The location of each water quality sampling locations, in degrees, minutes and seconds (to two decimal places) of latitude and longitude, and the elevation of the top of the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum, shall be determined by a Florida Licensed Professional Surveyor and Mapper.

[Rule 62-701.510(3) (d) 1, F.A.C.]

The location information shall include the method the data was collected using the following:

Field Name	Also Known As	Description
Object of Interest	Feature	The object the point represents
Relationship of Point to Object of Interest	Proximity	Identifies how close the point is to the actual object of interest.
Collection Method	Method	The method used to collect the point.
Collection Date	Date	The date the point was collected.
Datum		The reference for measuring locations on the earth's surface.

[Rule 62-701.320(7) (f) 7, F.A.C.]

Upon completion of each well, [Form 62-701.900\(30\), Monitoring Well Completion Report](#), Attachment 4 shall be submitted to the Department to report details of the well construction and location.

[Rule 62-701.510(3) (d) 1, F.A.C. and Rule 62-701.510(4) (c), F.A.C.]

- E. Existing wells not used in the approved monitoring network for collection of samples or water elevation data shall be properly maintained and locked or shall be properly abandoned in accordance with [Rule 62-532.500\(5\), F.A.C.](#)
- F. Any monitoring wells which are abandoned or which will be covered due to lateral expansions of a landfill or the construction of new solid waste disposal units shall be plugged as necessary so that they do not act as a conduit for any leachate release to the ground water. The Department shall be notified in writing before any monitoring wells are abandoned or plugged. The permittee shall obtain appropriate well abandonment permits from the Northwest Florida Water Management District.  
[Rule 62-701.510(3) (d) 6, F.A.C. and [Rule 62-532.500\(5\), F.A.C.](#)]
- G. The water-quality monitoring network shall consist of four (4) ground water monitoring wells (1-background, 1-detection, 2-compliance). Attachment 2 graphically represents the water quality network. Use the following designations for ground water monitoring identification purposes in all future analysis reports:

Sample Location Name	Designation	Location		Test Site Number
		Latitude	Longitude	
MW-1	Background	30° 35' 42.334"	87° 04' 24.112"	10453
MW-2	Detection	30° 35' 45.826"	87° 04' 12.899"	10454
MW-3	Compliance	30° 35' 48.244"	87° 04' 13.511"	10455
MW-4	Compliance	30° 35' 51.597"	87° 04' 18.102"	10456

[Rule 62-522, F.A.C., and permit renewal application received on October 1, 2013.]

H. Sample groundwater-monitoring wells semiannually for parameters listed below:

Field Parameters	Laboratory Parameters
pH	Iron
Turbidity	Manganese
Temperature	
Specific Conductivity	
Dissolved Oxygen	
Water Elevations	
Colors and Sheens (by observation)	

[Rule 62-522, F.A.C., and permit renewal application received on October 1, 2013.]

I. Ground Water Sampling

1. Measure water levels in each monitoring well in a single day.
2. Measure water levels on the sample day and recorded prior to evacuating the wells or collecting samples.
3. At each well site, record water level, top of well casing and land surface elevations at a precision of plus or minus 0.01 feet NAVD for each analysis report
4. Prior to sampling, stabilize the field parameters for each well.
5. Use sampling and purging methods in the Standard Operating Procedures, as allowed in [Chapter 62-160, F.A.C.](#)

J. Sample all surface water test sites semiannually for the parameters listed below. Paragraph J is not applicable.

K. Water Sample Analysis

1. Conduct analysis of all samples using approved State and Federal analytical methods with detection limits at or below the maximum allowable concentrations for all parameters, whenever possible.
2. Background water quality shall be sampled and analyzed in accordance with the provisions of Rule 62-701.510(5) (b), F.A.C.
3. Sample and analyze all background and detection wells at least once prior to permit renewal for those parameters listed in Rule 62-701.510(7) (a), F.A.C.

L. The owner or operator of a solid waste disposal unit may request a permit modification from the appropriate District Office of the Department to delete specific monitoring parameters or field parameters from routine analysis of detection or compliance wells and surface water. The Department will grant such modification upon a demonstration that these parameters are not reasonably expected to be in or derived from the waste contained in the unit, or are not reasonably expected to be detected in the ground water as a result of the operations of the facility. [Rule 62-701.510(5), F.A.C.]

M. Measure rainfall at the site on a daily basis. Precipitation records shall be included with the operating record and shall be maintained and used by the permittee to compare with leachate generation rates. [Rule 62-701.500(8)(g), F.A.C.]

## N. Water Quality Reporting

1. Report all representative water quality monitoring results to the Department within 60 days from completion of laboratory analysis. In accordance with [Rule 62-160.240\(3\), F.A.C.](#) and [Rule 62-160.340\(4\), F.A.C.](#), water quality data contained in the report shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases [See Paragraph 3.7.P]. The owner or operator shall include [DEP Form 62-701.900\(31\), Water Quality Monitoring Certification](#) provided as Attachment 5. The operator of the landfill shall notify the Department at least 14 days before the sampling is scheduled to occur so that the Department may collect split samples.  
[Rule 62-701.510(8) (a), F.A.C.]

The results of each set of semiannual water quality analysis shall be submitted separately, no later than February 1 and August 1 each year.

The report shall include but not be limited to the following:

- a. The facility name and identification number, sample collection dates, and analysis dates;
  - b. All analytical results, including all peaks even if below maximum contaminant levels;
  - c. Identification number and designation of all surface water and ground water monitoring points;
  - d. Applicable water quality standards;
  - e. Quality assurance, quality control notations;
  - f. Method detection limits;
  - g. Water levels recorded prior to evaluating wells or sample collection. Elevation reference shall include the top of the well casing and land surface at each well site at a precision of plus or minus 0.01 foot (using a consistent, nationally recognized datum);
  - h. An updated ground water table contour map signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, with contours at no greater than one-foot intervals unless site-specific conditions dictate otherwise, which indicates ground water elevations and flow direction; and
  - i. A summary of any water quality standards or criteria that are exceeded.
2. Submit the latitude and longitude location for each monitoring well with the semiannual water quality analysis results.  
[Rule 62-701.510(3) (d) 1, F.A.C.]
  3. Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.

## O. Electronic Submission of Water Quality Analysis

1. Submit the results of each set of water quality analysis electronically on compact disc media readable by a Microsoft Windows computer.

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office

Solid Waste Section  
 160 W. Government Street, Suite 308  
 Pensacola, Florida 32502

And to:

Florida Department of Environmental Protection  
 Bob Martinez Center  
 Solid Waste Section  
 2600 Blair Stone Road  
 MS 4565  
 Tallahassee, Florida, 32399-2400

The data shall be evaluated using ADaPT to conduct data quality review and compliance checking. The owner or operator shall include DEP Form 62-701.900(31), Water Quality Monitoring Certification provided as Attachment 5 with each report certifying that the laboratory results have been reviewed and approved by the owner or operator. To download the appropriate version of the ADaPT software for data entry and submittals and for other general information related to the use of ADaPT, go to the DEP's web site at:

<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>

The ADaPT water quality analysis shall be submitted electronically on compact disc media readable by a Microsoft Windows computer. Electronic laboratory data must be submitted in a specific format called an Electronic Data Deliverable (EDD). The submittal shall also include Chain of Custody sheets, field data sheets (Form FD 9000-24 provided as Attachment 6), groundwater contour maps, water elevation table, summary of exceedances, recommendations, and the Groundwater Monitoring Report Certification. The Department will use ADaPT to conduct data quality review and compliance checking.

[Rule 62-160.240(3), F.A.C. and Rule 62-160.340(4), F.A.C.]

2. The following data fields must be present in the data:

Analytical Method	Analytical Result
Analytical Result Units	Appropriate Data Qualifiers (as listed in Chapter 62-160, F.A.C.)
Date of Analysis	Date of Preparation (if applicable)
Date of Sampling	Detection Limit of the Analysis
DOH Certification Number of the Laboratory	Facility Identification Number
Matrix (Aqueous, Drinking Water, Saline/Estuarine, or Solids)	Parameter Name (Name of the Compound Analyzed for/Test Performed)
	Test site ID

3. If documents require a professional certification, submit original signed and sealed paper documents unless a specific law or rule allows an electronic signature.

[Rule 62-701.510(5), F.A.C. and Rules 62-701.510(7) (a), (b) and (c), F.A.C.]

- P. If at any time it is determined that any well in the routine monitoring system is not functioning properly and is not providing representative water quality samples, the owner or operator shall have the wells evaluated, redeveloped, or replaced such that representative samples will be obtained during the next required routine sampling event.

Any well requiring redevelopment should be surged with formation water or a surge block, only. Consider replacing wells, which still produce sediment and high turbidity. Evaluate wells with high turbidity using the procedures called for in [Rule 62-520.300\(9\), F.A.C.](#)

Design, install and complete any well requiring replacement in accordance with the suggested practices of document ASTM D5092.

[Rule 62-701.510, F.A.C. and Rule 62-522, F.A.C.]

- Q. Evaluation monitoring, prevention measures and corrective action

1. Evaluation Monitoring. If monitoring parameters are detected in detection wells in concentrations that are significantly above background water quality, or that are at levels above the Department's water quality standards or criteria specified in [Chapter 62-520, F.A.C.](#), the owner or operator may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the owner or operator choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the owner or operator chooses not to resample, the owner or operator shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the owner or operator shall initiate evaluation monitoring in accordance with Rule 62-701.510(6) (a), F.A.C.
2. If the parameters detected in the detection wells identified in Rule 62-701.510(6) (a), F.A.C., consist only of iron, aluminum, manganese, sulfates, or total dissolved solids (TDS), either individually or in any combination, then only the detected parameters are required to be monitored in the representative background wells, affected detection wells and downgradient compliance wells required in this section rather than the parameters listed in Rule 62-701.510(7) (a), F.A.C. and Rule 62-701.510(7) (c), F.A.C. However, if the facility is unlined, the parameters specified in Rule 62-701.510(7) (a), F.A.C. shall also be analyzed for in the initial sampling event for the affected detection wells and downgradient compliance wells.
3. Corrective actions. If any contaminants are detected and confirmed in compliance wells in concentrations that exceed both background levels and Department water quality standards or criteria, the owner or operator shall notify the Department within 14 days of this finding and shall initiate corrective actions. Evaluation monitoring shall continue according to the requirements of Rule 62-701.510(6) (a), F.A.C.

The owner or operator shall initiate and complete corrective actions in accordance with [Chapter 62-780, F.A.C.](#) within the manner and timeframes specified therein and provide a site assessment report (SAR)

in accordance with [Rule 62-780.600, F.A.C.](#) that meets the objectives of said Rule within the manner and timeframes specified therein.

- R. All water quality monitoring required by this permit shall be in accordance with [Rules 62-520.300, F.A.C.](#) and [Rule 62-4.246, F.A.C.](#), and shall be carried out under the requirements of [DEP-SOP-001/01 FS 2000](#) or applicable Standard Operating Procedures (SOPs) in accordance with [Chapter 62-160, F.A.C.](#)
- S. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department every five (5) years during the long-term care period. The report shall summarize and interpret the water quality monitoring results and water level measurements collected during the past five (5) years. The report shall contain, at a minimum, the following:
1. Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, TDS, TOC, sulfate, chloride, sodium and iron), including hydrographs for all monitor wells;
  2. Trend analysis of any monitoring parameters consistently detected;
  3. Comparisons among shallow, middle, and deep zone wells;
  4. Comparisons between background water quality and the water quality in detection and compliance wells;
  5. Correlations between related parameters such as total dissolved solids and specific conductance;
  6. Discussion of erratic and/or poorly correlated data;
  7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
  8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

Submit the technical report separately, no later than August 1, 2018, and every five years thereafter.

Provide one complete bound copy and one unlocked electronic copy. The electronic copy should be one electronic file in Adobe Acrobat format.

[Rule 62-701.510(8) (b), F.A.C.]

Send all submittals in response to this requirement to:

Florida Department of Environmental Protection  
Northwest District Office  
Solid Waste Section  
160 W. Government Street, Suite 308  
Pensacola, Florida 32502

- T. All field and laboratory records specified in [Rule 62-160.600, F.A.C.](#) and [Rule 62-160.630, F.A.C.](#), shall be made available to the Department and be retained for the design period of the landfill.  
[Rule 62-701.510(8) (c), F.A.C.]

## **PART Q LONG-TERM CARE (62-701.620, FAC)**

### **2. Stabilization report requirements; (62-701.620(6), FAC)**

Maintenance items for the 22 acre facility include mowing and reseeding when required. All potential erosion features will be controlled as needed with fill soil, hay and sod as necessary. Storm water swales will be maintained and grassed as necessary to reduced storm water flow velocities. Based on long term care history it is estimated that approximately 5% of the 22 acre closure area will require annual re-grading and reseeding for erosion control.

This site has had very few past issues with erosion and no steep slopes exist. Should an area of slight erosion be discovered during inspection, erosion control matting and suitable soil will be placed over the affected area. Vegetation will be established with a Hydro-Seeder with a seed mixture containing Rye or Millet, depending on the season, Bermuda, Bahia, and red clover. Additionally mulch will also be applied for further stabilization.

Santa Rosa Class III Landfill has an existing security fence around the property located at the intersection of Carroll Road and Pine Forest Road. Under normal conditions and its location adjacent to Santa Rosa County Emergency Management and Florida Department of Transportation Facility potential vandalism is not expected. The existing fence is not expected to require maintenance during the 10 year long-term care period, yet the County will keep 50 linear feet of fence material available for any repairs.

### **4. Requirements for replacement of monitoring devices; (62-701.620(8), FAC)**

Information may be found in the attached 62-701.900(28) form prepared by Mr. Shane Fischer, PE, SCS Engineers, Tampa, Florida for Santa Rosa County Environmental Department, Milton, Florida. Replacement of monitoring wells will be done according to requirements as stated in 62-701.620(8), FAC.

### **5. Completion of long-term care signed and sealed by professional engineer; (62-701.620(9), FAC)**

Information may be found in the attached 62-701.900(28) form prepared by Mr. Shane Fischer, PE, SCS Engineers, Tampa, Florida for Santa Rosa County Environmental Department, Milton, Florida (Attachment Part Q 5).

**ATTACHMENT 1-Time Sensitive Action Chart for Solid Waste Reports**

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

**2014**

February 1, 2014      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2014      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2014      Annual Cost Estimate

**2015**

February 1, 2015      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2015      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2015      Annual Cost Estimate

**2016**

February 1, 2016      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2016      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2016      Annual Cost Estimate

**2017**

February 1, 2017      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2017      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2017      Annual Cost Estimate

**2018**

February 1, 2018      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2018      Technical and Stabilization Report (August 2013-February 2018)  
August 1, 2018      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2018      Annual Cost Estimate

**2019**

February 1, 2019      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2019      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2019      Annual Cost Estimate

**2020**

February 1, 2020      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2020      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2020      Annual Cost Estimate

**2021**

February 1, 2021      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2021      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2021      Annual Cost Estimate

**2022**

February 1, 2022      Semiannual Water Quality Monitoring Report (ADaPT)

PERMITTEE NAME: Santa Rosa County Board of County Commissioners  
FACILITY NAME: Santa Rosa Class III Landfill

PERMIT NO.: 0001510-005-SF  
WACS Facility ID: 12312

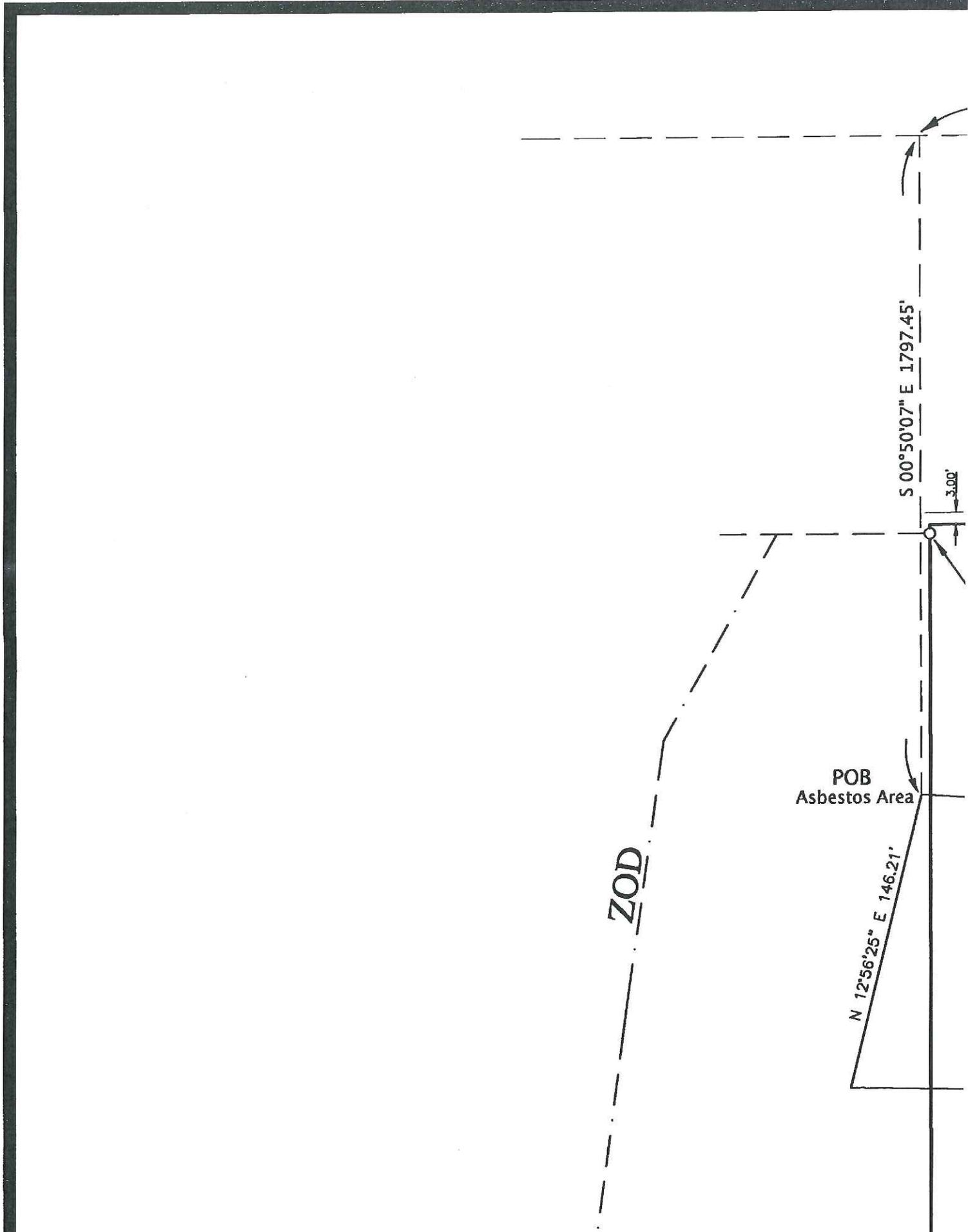
August 1, 2022      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2022      Annual Cost Estimate

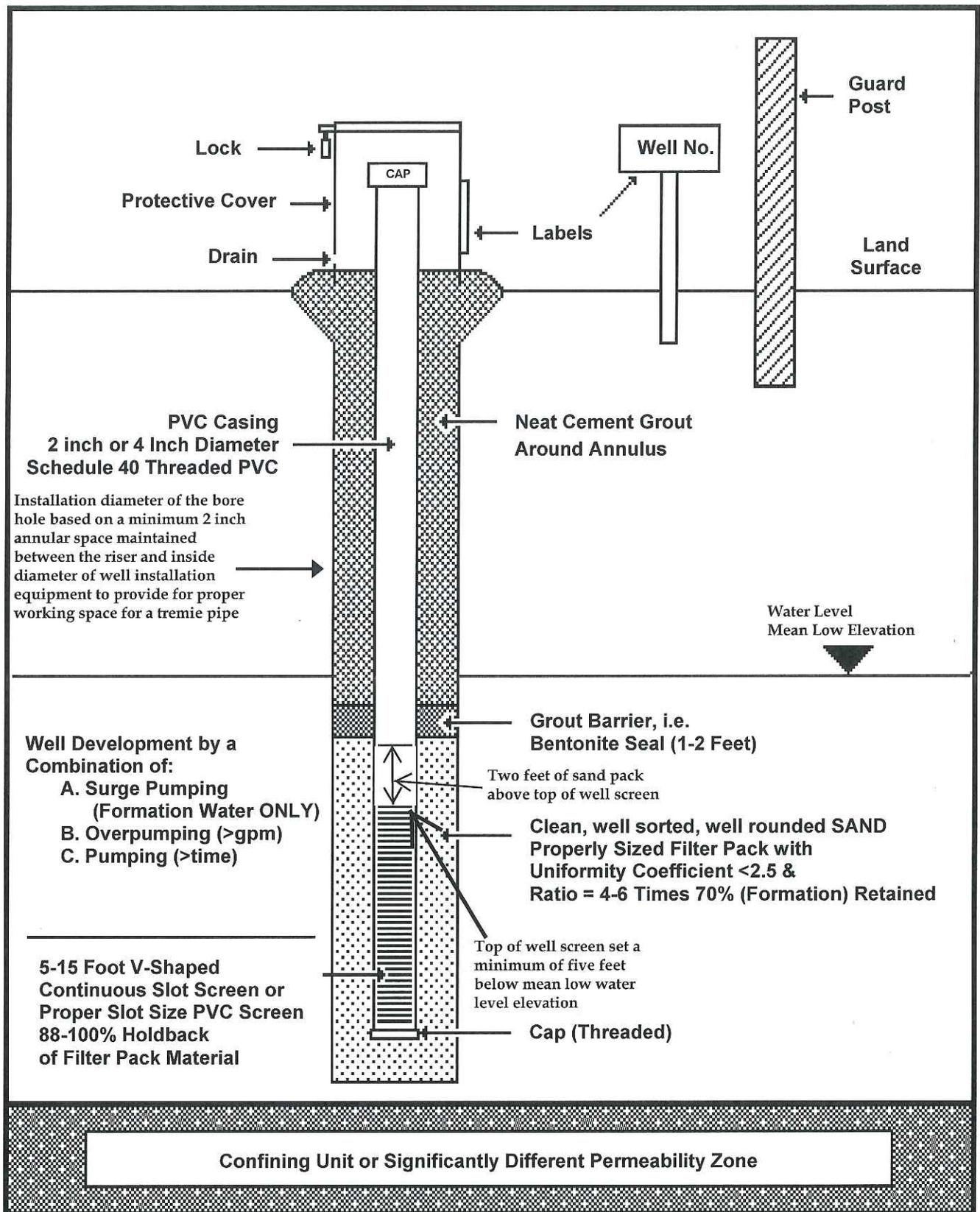
**2023**

February 1, 2023      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2023      Technical and Stabilization Report (August 2018-February 2023)  
August 1, 2023      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2023      Annual Cost Estimate

**2024**

February 1, 2024      Semiannual Water Quality Monitoring Report (ADaPT)  
August 1, 2024      Semiannual Water Quality Monitoring Report (ADaPT)  
September 1, 2024      Annual Cost Estimate





Basic Monitor Well Design  
in a Water Table Aquifer

Florida Department of  
Environmental Protection  
Northwest District Office



# 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)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

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

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



# Department of Environmental Protection

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

DEP Form #: 62-701.900(31)  
Form Title: Water Quality Monitoring Certification  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(9)

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( ) \_\_\_\_\_

(2) WACS Facility ID \_\_\_\_\_

(3) DEP Permit Number \_\_\_\_\_

(4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
 Telephone Number ( ) \_\_\_\_\_  
 Email address (if available) \_\_\_\_\_

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

\_\_\_\_\_ (Date) \_\_\_\_\_ (Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization \_\_\_\_\_  
 Analytical Lab NELAC / HRS Certification # \_\_\_\_\_  
 Lab Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number ( ) \_\_\_\_\_  
 Email address (if available) \_\_\_\_\_

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

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
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 33902-2549  
239-332-6975

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



## **APPENDIX III**

**PERMITTED & CORRECTIVE ACTION  
MONITORING WELL CONSTRUCTION  
& SAMPLING POINT INFORMATION**

SRC ENVIRONMENTAL DEPARTMENT

TABLE 1 Well Construction Data for Central Class I Landfill.

WELL ID	TYPE	INSTALL DATE	Latitude (N)	Longitude (W)	GRADE (feet)	TOC (feet)	BOS (feet)	Well Diameter (inches)	Screen Length (feet)
MW-2	Detection	Feb-85	30 34 36.35787	87 03 39.90590	62.68	63.76	17.68	4	10
MW-4	Compliance	Feb-85	30 35 00.91985	87 03 32.95041	64.31	65.97	12.10	2	15
MW-5	Piezometer	Feb-85	30 35 00.88244	87 03 30.36645	63.50	66.30	28.50	2	10
MW-6	Compliance	Feb-85	30 34 58.84085	87 03 29.60492	62.20	65.10	22.20	2	15
MW-8	Compliance	Jul-85	30 34 36.12907	87 03 28.17359	58.04	59.65	19.75	4	10
MW-9	Detection	Jul-85	30 34 36.52645	87 03 49.57329	62.76	66.19	26.28	4	10
MW-10	Background	Jul-85	30 34 49.34396	87 03 56.62413	61.32	62.73	28.16	4	10
MW-11	Piezometer	Jun-85	30 34 58.95757	87 03 29.95739	63.55	65.49	-185.53	4	10
MW-14a	Detection	Jul-99	30 34 36.28856	87 03 55.20349	63.40	66.62	14.40	4	15
MW-16	Detection	Nov-92	30 34 24.46805	87 03 55.46665	47.55	49.61	9.67	4	20
MW-17	Compliance	Dec-92	30 34 29.53427	87 03 24.82712	33.50	35.53	-1.50	4	15
MW-18	Compliance	Dec-92	30 34 33.29893	87 03 24.57601	43.25	46.52	3.25	4	15
MW-19	Assessment	Dec-92	30 34 38.91818	87 03 25.03089	59.40	58.84	14.41	4	15
MW-20	Assessment	Oct-93	30 34 39.25111	87 03 18.70709	59.00	58.79	7.14	4	15
MW-21	Assessment	Oct-93	30 34 44.52533	87 03 18.47473	64.00	63.81	11.99	4	15
MW-22	Piezometer	Dec-93	30 34 37.72710	87 03 11.78106	45.25	45.12	11.67	4	15
MW-29	Detection	Jul-99	30 34 36.28403	87 03 57.84875	63.5	66.36	13.50	4	NA
MW-30	Detection	Mar-16	30 34 35.9778	87 04 03.9885	NA	64.96	14.96	4	10
MW-31	Detection	Jul-98	30 34 23.50357	87 03 57.75461	48.4	51.07	19.84	4	10
MW-32	Piezometer	Jul-98	30 34 29.81983	87 03 43.60391	50.2	53.17	21.60	4	10
MW-33	Assessment	Jul-98	30 34 38.93934	87 03 24.93623	59.6	59.44	-20.99	4	15
MW-34	Assessment	Jul-98	30 34 47.53994	87 03 24.54967	65.3	65.15	-54.13	4	15
MW-37	Assessment	Jul-99	30 34 39.15297	87 03 18.70576	59.1	58.63	-116.90	4	15
MW-38	Assessment	Jul-99	30 34 44.42581	87 03 18.47441	63.9	63.73	-101.1	4	15
MW-39	Assessment	Jan-00	30 34 44.56375	87 03 01.03822	57.78	57.34	-107.66	4	15
MW-40	Assessment	Nov-01	30 34 33.71946	87 03 29.05762	51.30	53.84	18.00	2	10
MW-41	Assessment	Nov-01	30 34 30.59463	87 03 29.96999	39.07	41.52	16.00	2	10
MW-42	Background	Dec-03	30 34 48.71513	87 04 01.60275	60.00	62.86	22.86	4	10
MW-43	Background	Mar-16	30 34 37.2697	87 04 12.0797	NA	68.15	13.15	4	10
MW-EI	Piezometer		30 34 59.67706	87 03 29.79394	62.94	66.94	-58.66	4	10
MW-FD	Piezometer		30 34 59.62045	87 03 29.78058	62.84	65.49	-102.31	4	10
MW-GS	Compliance	Jun-90	30 34 57.94249	87 03 27.13930	63.50	65.38	15.81	4	15
MW-HS	Compliance	Jun-90	30 34 55.06201	87 03 27.30451	64.21	66.05	17.36	4	15
MW-IS	Compliance		30 34 52.52255	87 03 27.39867	64.71	66.88	18.53	4	15
MW-LS	Compliance	Jan-91	30 34 49.81181	87 03 27.52121	66.92	69.16	15.27	4	15
MW-MS	Compliance	Jan-91	30 34 47.11851	87 03 27.63878	65.82	68.46	11.35	4	20
MW-NS	Compliance	Jan-91	30 34 41.59175	87 03 27.89056	61.92	64.79	9.45	4	20
MW-OS	Assessment	Jan-91	30 34 47.58505	87 03 24.54029	65.40	65.37	22.63	4	20
PZ-AS	Assessment		30 34 59.01130	87 03 39.45265	67.29	70.80	27.55	4	10
PZ-DS	Piezometer		30 34 59.65078	87 03 29.87492	62.94	66.76	23.63	4	10
PZ-25	Piezometer	Jul-96	30 34 21.12048	87 02 16.35132	25.60	26.04	7.60	2	15
PZ-26	Piezometer	Jul-96	30 34 47.10127	87 02 24.29146	28.88	28.29	8.88	2	15
PZ-27	Piezometer	Jul-96	P&A	P&A	66.01	65.55	11.01	2	15
PZ-28	Piezometer	Jul-96	30 35 01.09986	87 02 56.92193	65.08	64.72	20.08	2	15
RECOVERY WELLS									
RW-1	RECOVERY	May-99	30 34 47.11851	87 03 27.15466	63.80	66.32	-26.32	4	30
RW-2	RECOVERY	Dec-99	30 34 57.39288	87 03 27.37211	64.32	66.25	-22.75	6	20
RW-3	RECOVERY	Feb-00	30 34 49.09559	87 03 27.54307	67.16	70.25	-22.84	6	20
RW-4	RECOVERY	Mar-00	30 34 45.62671	87 03 27.67959	64.62	68.26	-26.74	6	20

SRC ENVIRONMENTAL DEPARTMENT

**TABLE 1 Well Construction Data for Central Class I Landfill.**

<b>WELL ID</b>	<b>TYPE</b>	<b>INSTALL DATE</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>	<b>GRADE (feet)</b>	<b>TOC (feet)</b>	<b>BOS (feet)</b>	<b>Well Diameter (inches)</b>	<b>Screen Length (feet)</b>
RW-5	RECOVERY	Mar-00	30 34 41.94949	87 03 27.88465	62.36	65.00	-28.00	6	20
RW-6	RECOVERY	Apr-00	30 34 38.42853	87 03 28.02460	60.68	60.68	-29.07	6	20
RW-7	RECOVERY	Oct-01	30 34 47.25229	87 03 24.14278	64.00	63.78	-91.22	6	30
RW-8	RECOVERY	Oct-01	30 34 43.02157	87 03 18.48950	63.00	62.05	-97.95	6	30
RW-9	RECOVERY	Oct-01	30 34 43.07463	87 03 01.01593	56.00	53.82	-98.18	6	30

\* Proposed wells      BOS - Bottom of screen      TOC - Top of casing

Table 4. Well Construction Data for Holley Landfill.

WELL ID	TYPE	Latitude	Longitude	GRADE (feet)	TOC (feet)	BOS (feet)	BOW (feet)	Well Diameter (inches)	Screen Length (feet)
MW-3	Background	30 27 40.79625	86 52 29.88125	77.30	78.60	46.60	46.60	2	10
MW-4R	Compliance	30 27 28.63763	86 52 12.60279	101.73	103.91	40.66	40.66	3	15
MW-7R	Compliance	30 27 32.56228	86 52 00.00964	100.36	102.07	32.40	32.40	3	15
MW-8R	Compliance	30 27 38.69272	86 52 27.56472	81.15	87.93	39.53	39.53	2	10
MW-9	Background	30 27 40.50317	86 52 08.20281	86.93	88.09	-2.06	-2.06	4	20
MW-10R	Compliance	30 27 26.28995	86 52 07.06829	100.2	102.40	32.55	32.55	4	15
MW-11SR	Assessment	30 27 22.80941	86 52 07.51423	99.00	102.42	36.01	36.01	4	20
MW-11I	J&A	30 27 22.65077	86 52 07.62199	99.98	102.40	-19.00	-19.00	4	J&A
MW-12SR	Assessment	30 27 23.74197	86 52 01.15031	103.22	106.29	21.14	21.14	4	15
MW-12d	Water Elev.	30 27 23.60536	86 52 00.96663	103.00	106.78	-162.00	-162.00	4	15
MW-13S	Water Elev.	30 27 26.65595	86 51 52.66249	104.45	106.92	-15.85	-15.85	4	15
MW-13I	Water Elev.	30 27 26.65373	86 51 52.44248	104.54	108.43	-13.61	-13.61	4	20
MW-14S	Assessment	30 27 21.61089	86 51 55.53911	103.47	105.86	19.21	19.21	4	15
MW-14I	Assessment	30 27 21.54187	86 51 55.32369	103.68	105.56	-5.94	-5.94	4	20
MW-15S	Assessment	30 27 18.39289	86 51 59.46215	101.82	103.94	16.39	16.39	4	15
MW-15I	Assessment	30 27 18.31145	86 51 59.25243	101.59	104.25	-18.75	-18.75	4	20
MW-16R	Compliance	30 27 26.15018	86 52 00.35363	102.48	104.75	23.48	23.48	4	15
MW-17	Assessment	30 27 29.26949	86 52 17.89372	95.35	97.42	20.35	20.35	4	15
MW-18	Assessment	30 27 32.62590	86 52 25.85774	82.98	85.59	30.66	30.66	2	15
MW-19	Compliance	30 27 29.33973	86 52 00.12048	105	107.21	55.00	55.00	2	15
MW-20S	Water Elev.	30 27 16.91239	86 51 55.06215	103.92	106.64	23.90	23.90	4	20
MW#20D	Water Elev.	30 27 16.95284	86 51 54.99234	103.72	106.63	5.24	5.24	2	15
MW-21S	Assessment	30 27 20.62980	86 51 57.30435	103.08	105.81	23.08	23.08	4	20
MW-22S	Assessment	30 27 20.96163	86 52 02.99724	102.73	105.39	22.73	22.73	4	20
MW-23S	Assessment	30 27 23.73143	86 52 04.72188	101.79	103.61	21.79	21.79	4	20
MW-24S	Water Elev.	30 27 14.59229	86 51 58.15839	102.66	105.42	22.64	22.64	4	20
MW-24D	Water Elev.	30 27 14.64145	86 51 58.09755	102.56	104.99	-6.91	-6.91	2	20
MW-25	Water Elev.	30 27 15.96104	86 51 57.02172	103.09	105.75	-6.53	-6.53	2	20
RW-1b	Assessment	30 27 26.25669	86 52 05.60658	103.00	103.00	-7.00	-7.00	4	20
RW-2	Assessment	30 27 26.14983	86 52 01.24885	102.94	104.62	-2.06	-2.06	4	30
Leachate L-1	Compliance				NA	NA	NA		

**Table 3. Well Constructions Data for Class III Landfill.**

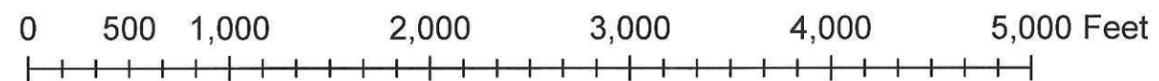
WELL ID	TYPE	LATITUDE (N)		GRADE (feet)	TOC (feet)	BOS (feet)	BOW (feet)	Well Diameter (inches)	Screen Length (feet)
			LONIGITUDE (W)						
MW-1	Background	30 35 42.33391	87 04 24.11181	78.45	81.33	13.35	13.50	4	15
MW-2	Intermediate	30 35 45.82579	87 04 12.89893	71.74	74.27	12.54	13.00	4	15
MW-3	Compliance	30 35 48.24407	87 04 13.51143	70.54	73.35	12.75	13.00	4	15
MW-4	Compliance	30 35 51.59727	87 04 18.10233	71.46	74.43	11.47	12.00	4	15
MW-5	Assessment	30 35 56.30856	87 04 13.86276		71.07	18.47	18.47	2	10
MW-6	Assessment	30 35 56.50167	87 04 16.94631		69.51	15.41	15.41	2	10
MW-7	Assessment	30 35 56.32872	87 04 09.56157		70.66	17.76	17.76	2	10
MW-8	Assessment	30 36 02.99967	87 04 15.48369		73.38	14.98	14.98	2	10
MW-9	Assessment	30 36 00.17538	87 04 09.32286		70.20	17.00	17.00	2	10
MW-10	Assessment	30 36 07.23280	87 04 06.57328		55.36	17.01	17.01	2	10
MW-11	Assessment	30 36 00.17538	87 04 09.32286		70.22	-12.43	-12.43	2	10

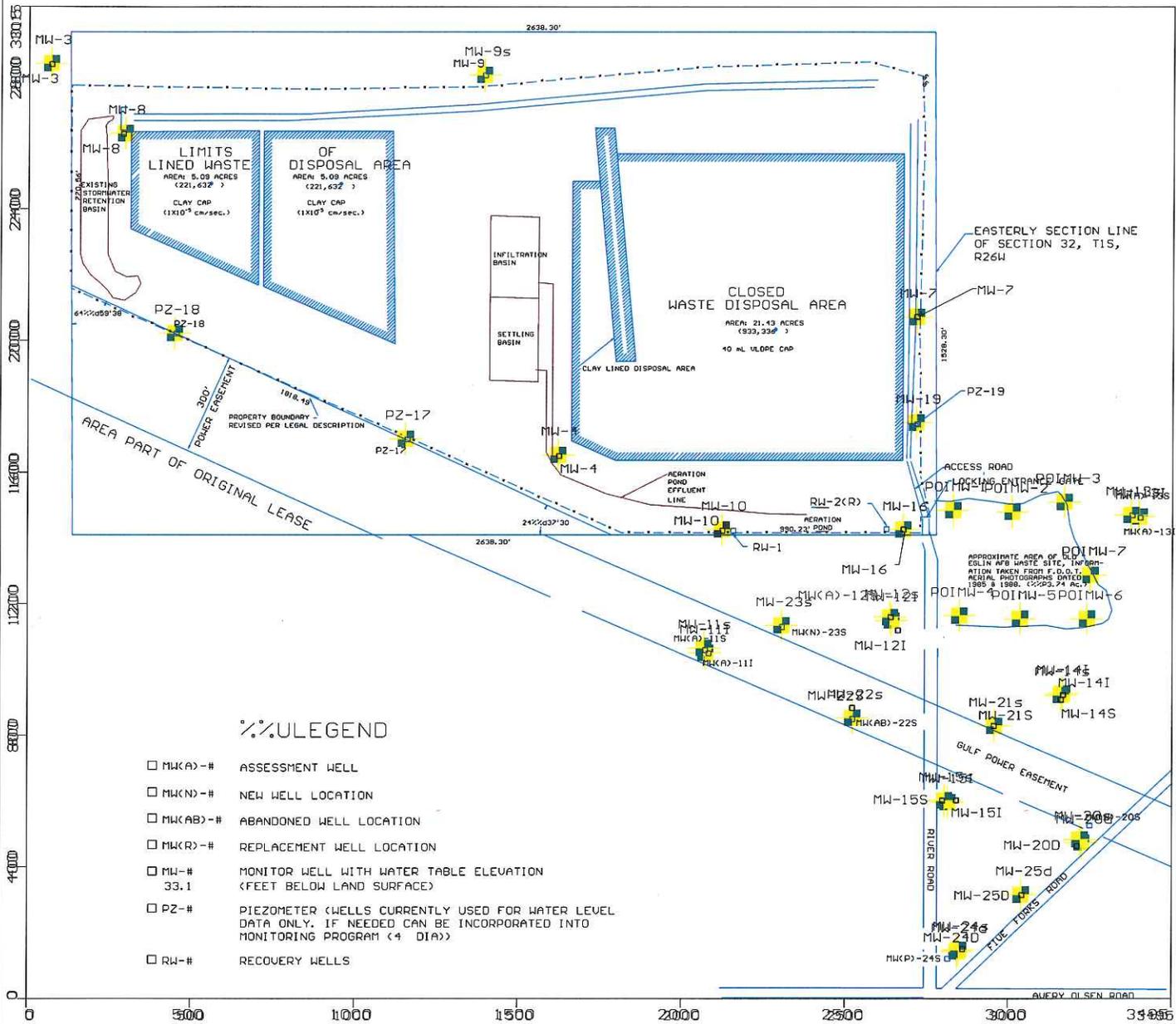






# CENTRAL LANDFILL MONITORING WELLS AND PIEZOMETERS





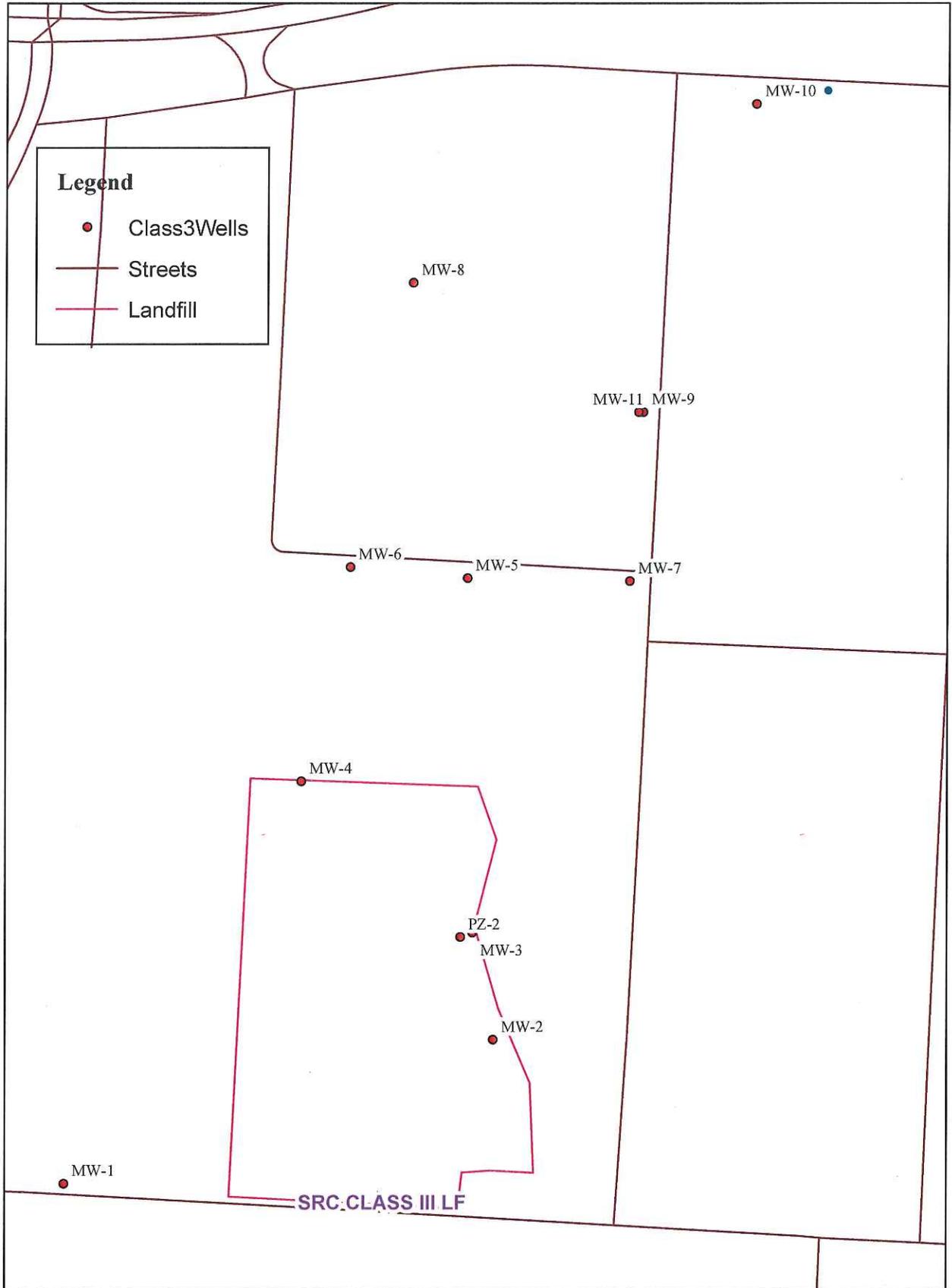
SANTA ROSA COUNTY ENGINEERING

MONITORING WELL, ASSESSMENT WELL, AND RECOVERY WELL LOCATIONS

SRC ENVIRONMENTAL DEPARTMENT

HOLLEY LANDFILL

# SANTA ROSA CLASS III LANDFILL WATER QUALITY



0 125 250 500 750 1,000 Feet



# SANTA ROSA COUNTY PROCUREMENT DEPARTMENT

DAVID KING  
Procurement Officer  
davidk@santarosa.fl.gov

6495 Caroline Street, Suite J | Milton, Florida 32570

TO: Plan-holders

FROM: Dave King  
Procurement Officer

DATE: July 19, 2016

REF: ADDENDUM #1 to RFP #16-049 Water Quality Services Project

## PROJECT RFP ADDENDUM #1

The following additions/clarifications are to be incorporated into the project scope of work

Question: Can you confirm the status of MW-30 and MW-43 at the Central landfill? They are scheduled to be sampled according to the county's sampling spreadsheet at the end of the RFP, however, they are not on the latest sampling reports (abandoned?).

Answer: Yes. MW-30 and MW-43 are new wells that were added at the beginning of this year. The first samples were taken on May, 2016

Question: Looking for clarification. SW-1 at the Class III is scheduled to be sampled for metals, as well as MW-12D is scheduled for first and second semi annuals but does not have a contaminant to be sampled for.

Answer: SW-1 at SRC Class III was filled in and no longer a sampling point, MW-11 at Holley Landfill was abandoned and will not be sampled, and MW-12D is only a piezometer it will not be sampled for water quality.

This Addendum Number 1 is furnished to all known prospective Proposers. Please sign and return one copy of this Addendum, with original signature, with your proposal as an acknowledgement of your having received same. You may photocopy for your records.

SIGNED: \_\_\_\_\_

COMPANY: \_\_\_\_\_

End of ADDENDUM #1.



# SANTA ROSA COUNTY PROCUREMENT DEPARTMENT

DAVID KING  
Procurement Officer  
davidk@santarosa.fl.gov

6495 Caroline Street, Suite J | Milton, Florida 32570

TO: Pre-Bid Meeting Plan-holder Attendees  
FROM: Dave King  
Procurement Officer  
DATE: July 22, 2016  
REF: ADDENDUM #2 to RFP #16-049 Water Quality Services

## PROJECT ADDENDUM #2

The following additions/clarifications are to be incorporated into the project scope of work:

Question: The question was raised by our legal department regarding the \$1,000 per day liquidated damages language in the RFP. These types of damages are generally seen on construction or design/build type projects where there is a hard deadline to construct and finish out. Very seldom do we see those types of damages on a water quality sampling & reporting project.

Can you please confirm that the liquidated damages language is real and relevant to this project or possibly it was a hold-over from some other RFP that was inadvertently left?

Answer: One thousand dollars (\$1,000.00) is excessive for this service. The liquidated damages is set at Two hundred fifty dollars (\$250.00).

Line out '\$1000.00' in Section 00130 – BID FORM agreement #6 and replace with '\$250.00'.

This Addendum Number 2 is furnished to all prospective Proposers who attended the Mandatory Pre-Bid meeting. Please sign and return one copy of this Addendum, with original signature, with your proposal as an acknowledgement of your having received same. The remainder of the bid document remains in effect. You may photocopy for your records.

SIGNED: \_\_\_\_\_

COMPANY: \_\_\_\_\_

Page 1 of 1

End of ADDENDUM #2.