

### Florida Department of Environmental Protection

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

DEP Form # 62-701.900(1)

Form Title Application to Construct, Operate, Modify, or Close a Solid Waste Management Facility Permit

Effective Date 08/2012

Incorporated in Rule.\_62-701.330(3)

# STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR A PERMIT TO CONSTRUCT,
OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

APPLICATION INSTRUCTIONS AND FORMS

### INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

#### I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department's District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

### II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills Submit Parts A through S
- B. Asbestos Monofills Submit Parts A,B,C,D,E,F,I,K,M, O through S
- C. Industrial Solid Waste Disposal Facilities Submit Parts A through S

NOTE: Portions of some Parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A, B and C type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

### III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills Submit Parts A, B, L, N through S
- B. Asbestos Monofills Submit Parts A,B,M, O through S
- C. Industrial Solid Waste Disposal Facilities Submit Parts A, B, L through S

NOTE: Portions of some Parts may not be applicable.

#### IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

### V. Application Codes

S - Submitted

LOCATION - Physical location of information in application

N/A - Not Applicable

N/C - No Substantial Change

### VI. LISTING OF APPLICATION PARTS

PART A: GENERAL INFORMATION

PART B: DISPOSAL FACILITY GENERAL INFORMATION

PART C: PROHIBITIONS

PART D: SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL

PART E: LANDFILL PERMIT REQUIREMENTS

PART F: GENERAL CRITERIA FOR LANDFILLS

PART G: LANDFILL CONSTRUCTION REQUIREMENTS

PART H: HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS

PART I: GEOTECHNICAL INVESTIGATION REQUIREMENTS

PART J: VERTICAL EXPANSION OF LANDFILLS

PART K: LANDFILL OPERATION REQUIREMENTS

PART L: WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS

PART M: SPECIAL WASTE HANDLING REQUIREMENTS

PART N: GAS MANAGEMENT SYSTEM REQUIREMENTS

PART O: LANDFILL CLOSURE REQUIREMENTS

PART P: OTHER CLOSURE PROCEDURES

PART Q: LONG-TERM CARE

PART R: FINANCIAL ASSURANCE

PART S: CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

### STATE OF FLORIDA

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

## APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

PART	A. GENERAL INFORMATION	
1.	Type of disposal facility (check all that apply):	
	[ ] Class I Landfill [ ] Ash Monofill [ ] Class III Landfill [ ] Asbestos Monofill [ ] Industrial Solid Waste [ ] Other Describe:	
NOTE:	Waste Processing Facilities should apply on Form 62-701.900(4), FAC; Yard Trash Disposal Facilities should notify on Form 62-701.900(3), FAC; Compost Facilities should apply on Form 62-709.901(1), FAC; and C&D Disposal Facilities should apply on Form 62-701.900(6), FAC	
2.	<pre>Type of application:     [ ] Construction     [ ] Operation     [ ] Construction/Operation     [ ] Closure     [ ] Long-term Care Only</pre>	
3.	Classification of application:  [ ] New	
4.	Facility name:	
5.	DEP ID number: County:	
6.	Facility location (main entrance):	
7.	Location coordinates:	
	Section: Township: Range:	
	Latitude: 0 ' " Longitude: 0 ' "	
	Datum: Coordinate Method:	
	Collected by: Company/Affiliation:	

8.	Applicant name (operating authority):	:			
	Mailing address:  Street or P.				
	Contact person:		Telephone: (	)	
	Title:				
			E-Mail addres:	s (if ava	ilahle)
9.	Authorized agent/Consultant:				
•					
	Mailing address:  Street or P.	O. Box	City	State	Zip
	Contact person:				
	Title:				
			E-Mail addres	•	,
10.	Landowner(if different than applicant	c):			
	Mailing address:Street or P.	O Boy	City	S+ 2+ 0	7in
	Contact person:				
	concact person.		icicphone. (_	/	
			E-Mail addres	s (if ava	ilable)
11.	Cities, towns and areas to be served:	:			
12.	±				
	Current:	Five-Yea Projecti			
13.	Date site will be ready to be inspect				
14.	Expected life of the facility:				years
15.	Estimated costs:				
	Total Construction: \$	Clos	sing Costs: \$ _		
16.	Anticipated construction starting and	d complet	tion dates:		
	From:	To: _			
17.	Expected volume or weight of waste to	be rece	eived:		
	yds³/day	tons/day	'g	allons/da	ay

### PART B. DISPOSAL FACILITY GENERAL INFORMATION

Facility site supervisor:
Title: Telephone: ()
E-Mail address (if available)
Disposal area: Total acres; Used acres; Available acres
Weighing scales used: [ ] Yes [ ] No
Security to prevent unauthorized use: [ ] Yes [ ] No
Charge for waste received:\$/yds³\$/ton
Surrounding land use, zoning:
[ ] Residential [ ] Industrial
[ ] Agricultural [ ] None [ ] Commercial [ ] Other Describe:
Types of waste received:
[ ] Household [ ] C & D debris
[ ] Commercial [ ] Shredded/cut tires [ ] Incinerator/WTE ash [ ] Yard trash
[ ] Treated biomedical [ ] Septic tank
[ ] Water treatment sludge [ ] Industrial [ ] Air treatment sludge [ ] Industrial sludge [ ] Agricultural [ ] Domestic sludge
[ ] Agricultural [ ] Domestic sludge [ ] Asbestos
Other Describe:
Salvaging permitted: [ ] Yes [ ] No
Attendant: [ ] Yes [ ] No Trained operator: [ ] Yes [ ] No
Trained spotters: [ ] Yes [ ] No Number of spotters used:

13.	Days of operation:	
14.	Hours of operation:	
15.	Days Working Face covered:	
16.	Elevation of water table:	Ft. Datum Used:
17.	Number of monitoring wells:	
18.	Number of surface monitoring points:	
19.	Gas controls used: [ ] Yes [ ] No	Type controls: [ ] Active [ ] Passive
	Gas flaring: [ ] Yes [ ] No	Gas recovery: [ ] Yes [ ] No
20.	Landfill unit liner type:	
	[ ] Single clay liner [ [ ] Single geomembrane [ ] Single composite [ ] Slurry wall	] Double geomembrane ] Geomembrane & composite ] Double composite ] None
21.	Leachate collection method:	
	[ ] Geonets [ [ ] Well points [	] Sand layer ] Gravel layer ] Interceptor trench ] None
22.	Leachate storage method:	
	[ ] Tanks [ ] Surface impoundments [ ] Other Describe:	
23.	Leachate treatment method:	
	[ ] Oxidation [ [ ] Secondary [ ] Advanced [ ] None [ ] Other	] Chemical treatment ] Settling
24.	Leachate disposal method:	
	[ ] Recirculated [ [ ] Transported to WWTP [ ] Injection well [ ] Evaporation [ ] Other	<pre>Pumped to WWTP Discharged to surface water/wetland Percolation ponds Spray Irrigation</pre>

25.	For leachate discharged to surface waters:
	Name and Class of receiving water:
26.	Storm Water:
	Collected: [ ] Yes [ ] No
	Type of treatment:
	Name and Class of receiving water:
27.	Environmental Resources Permit (ERP) number or status:

### **PART C. PROHIBITIONS** (62-701.300, FAC)

<u>s</u>	LOCATION	N/A	N/C		
				1.	Provide documentation that each of the siting criteria will be satisfied for the facility; (62-701.300(2), FAC)
				2.	If the facility qualifies for any of the exemptions contained in Rules $62-701.300(12)$ through $(18)$ , FAC, then document this qualification(s).
				3.	Provide documentation that the facility will be in compliance with the burning restrictions; (62-701.300(3), FAC)
				4.	Provide documentation that the facility will be in compliance with the hazardous waste restrictions; (62-701.300(4), FAC)
				5.	Provide documentation that the facility will be in compliance with the PCB disposal restrictions; (62-701.300(5), FAC)
				6.	Provide documentation that the facility will be in compliance with the biomedical waste restrictions; (62-701.300(6), FAC)
				7.	Provide documentation that the facility will be in compliance with the Class I surface water restrictions; (62-701.300(7), FAC)
				8.	Provide documentation that the facility will be in compliance with the special waste for landfills restrictions; (62-701.300(8), FAC)
				9.	Provide documentation that the facility will be in compliance with the liquid restrictions; (62-701.300(10), FAC)
				10.	Provide documentation that the facility will be in compliance with the used oil and oily waste restrictions; (62-701.300(11), FAC)
PART	D. SOLID	WASTE	MANAGE	MENT I	FACILITY PERMIT REQUIREMENTS, GENERAL (62-701.320, FAC)
<u>s</u>	LOCATION	N/A	N/C		
				1.	Four copies, at minimum, of the completed application form, all supporting data and reports; (62-701.320(5)(a),FAC)
				2.	Engineering and/or professional certification (signature, date and seal) provided on the applications and all engineering plans, reports and supporting information for the application; (62-701.320(6),FAC)
				3.	A letter of transmittal to the Department; (62-701.320(7)(a),FAC)

<u>s</u>	LOCATION	N/A	N/C	PART D CONTINUED	
				4.	A completed application form dated and signed by the applicant; $(62-701.320(7)(b),FAC)$
				5.	Permit fee specified in Rule 62-701.315, FAC in check or money order, payable to the Department; (62-701.320(7)(c),FAC)
				6.	An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 1/2 inch by 11 inch consecutively numbered pages, a table of contents or index, the body of the report and all appendices including an operation plan, contingency plan, illustrative charts and graphs, records or logs of tests and investigations, engineering calculations; (62-701.320(7)(d),FAC)
				7.	Operation Plan and Closure Plan; (62-701.320(7)(e)1,FAC)
				8.	Contingency Plan; (62-701.320(7)(e)2,FAC)
				9.	Plans or drawings for the solid waste management facilities in appropriate format (including sheet size restrictions, cover sheet, legends, north arrow, horizontal and vertical scales, elevations referenced to NGVD 1929) showing; (62-701.320(7)(f),FAC)
					a. A regional map or plan with the project location in relation to major roadways and population centers;
					b. A vicinity map or aerial photograph no more than 1 year old showing the facility site and relevant surface features located within 1000 feet of the facility;
					c. A site plan showing all property boundaries certified by a Florida Licensed Professional Surveyor and Mapper; and
					d. Other necessary details to support the engineering report, including referencing elevations to a consistent, nationally recognized datum and identifying the method used for collecting latitude and longitude data.
				10.	Documentation that the applicant either owns the property or has legal authority from the property owner to use the site; (62-701.320(7)(g),FAC)
				11.	For facilities owned or operated by a county, provide a description of how, if any, the facilities covered in this application will contribute to the county's achievement of the waste reduction and recycling goals contained in Section 403.706,FS; (62-701.320(7)(h),FAC)

<u>s</u>	LOCATION	N/A	N/C		PART D CONTINUED
				12.	Provide a history and description of any enforcement actions taken by the Department against the applicant for violations of applicable statutes, rules, orders or permit conditions relating to the operation of any solid waste management facility in this state; (62-701.320(7)(i),FAC)
		—	_	13.	Proof of publication in a newspaper of general circulation of notice of application for a permit to construct or substantially modify a solid waste management facility; (62-702.320(8),FAC)
		—	_	14.	Provide a description of how the requirements for airport safety will be achieved including proof of required notices if applicable. If exempt, explain how the exemption applies; (62-701.320(13),FAC)
_				15.	Explain how the operator and spotter training requirements and special criteria will be satisfied for the facility; (62-701.320(15), FAC)
PART	E. LANDF	ILL PE	ERMIT I	REQUIRE	<b>EMENTS</b> (62-701.330, FAC)
<u>s</u>	LOCATION	N/A	N/C		
				1.	Regional map or aerial photograph no more than 5 years old showing all airports that are located within five miles of the proposed landfill; (62-701.330(3)(a),FAC)
				2.	Plot plan with a scale not greater than 200 feet to the inch showing; (62-701.330(3)(b),FAC)
					a. Dimensions;
					b. Locations of proposed and existing water quality monitoring wells;
					c. Locations of soil borings;
					d. Proposed plan of trenching or disposal areas;
					e. Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets;
					f. Any previously filled waste disposal areas;
					g. Fencing or other measures to restrict access.
				3.	Topographic maps with a scale not greater than 200 feet to the inch with 5-foot contour intervals showing; (62-701.330(3)(c),FAC):
					a. Proposed fill areas;
					b. Borrow areas;
					c Access roads:

<u>s</u>	LOCATION	N/A	N/C			PART E CONTINUED
					d.	Grades required for proper drainage;
					е.	Cross sections of lifts;
					f.	Special drainage devices if necessary;
					g.	Fencing;
					h.	Equipment facilities.
				4.		port on the landfill describing the following; (01.330(3)(d),FAC)
					a.	The current and projected population and area to be served by the proposed site;
					b.	The anticipated type, annual quantity, and source of solid waste, expressed in tons;
					С.	Planned active life of the facility, the final design height of the facility and the maximum height of the facility during its operation;
		- —			d.	The source and type of cover material used for the landfill.
				5.	condu accor	de evidence that an approved laboratory shall act water quality monitoring for the facility in chance with Chapter 62-160, FAC; 201.330(3)(g), FAC)
_				6.	demonand l	de a statement of how the applicant will astrate financial responsibility for the closing ong-term care of the landfill; (01.330(3)(h),FAC)
PART	F. GENE	RAL CRI	TERIA	FOR LA	NDFILL	S (62-701.340,FAC)
				1.	Admin landf locat restr tempo unles	ribe (and show on a Federal Insurance distration flood map, if available) how the fill or solid waste disposal unit shall not be seed in the 100-year floodplain where it will exict the flow of the 100-year flood, reduce the exary water storage capacity of the floodplain as compensating storage is provided, or result in a but of solid waste; (62-701.340(3)(b),FAC)
				2.	waste prope toe c	ribe how the minimum horizontal separation between edeposits in the landfill and the landfill erty boundary shall be 100 feet, measured from the of the proposed final cover slope; 201.340(3)(c),FAC)

### PART G. LANDFILL CONSTRUCTION REQUIREMENTS (62-701.400, FAC)

<u>s</u>	LOCATION	N/A	N/C				
			_	1.	solid close perio a min value	wasted at pod of the imum for the policy to position was to position with the policy to the policy to the policy to the policy to policy the policy to policy the policy to the policy to the policy to the policy to the policy the policy to the policy the policy that the policy the policy that the polic	w the landfill shall be designed so that disposal units will be constructed and lanned intervals throughout the design he landfill and shall be designed to achieve actor of safety of 1.5 using peak strength revent failures of side slopes and deepures; (62-701.400(2),FAC)
				2.	Landf	ill li	ner requirements; (62-701.400(3),FAC)
					a.		al construction requirements; 01.400(3)(a),FAC):
						(1)	Provide test information and documentation to ensure the liner will be constructed of materials that have appropriate physical, chemical, and mechanical properties to prevent failure;
						(2)	Document foundation is adequate to prevent liner failure;
						(3)	Constructed so bottom liner will not be adversely impacted by fluctuations of the ground water;
						(4)	Designed to resist hydrostatic uplift if bottom liner located below seasonal high ground water table;
						(5)	Installed to cover all surrounding earth which could come into contact with the waste or leachate.
					b.	Compo	site liners; (62-701.400(3)(b),FAC)
						(1)	Upper geomembrane thickness and properties;
						(2)	Design leachate head for primary LCRS including leachate recirculation if appropriate;
						(3)	Design thickness in accordance with Table A and number of lifts planned for lower soil component.
					С.	Doubl	e liners; (62-701.400(3)(c),FAC)
						(1)	Upper and lower geomembrane thicknesses and properties;
						(2)	Design leachate head for primary LCRS to limit the head to one foot above the liner;

<u>s</u>	LOCATION	N/A	N/C		(3)	Lower geomembrane sub-base design; PART G CONTINUED
					(4)	Leak detection and secondary leachate collection system minimum design criteria ( $k \ge 10$ cm/sec, head on lower liner $\le 1$ inch, head not to exceed thickness of drainage layer);
				d.		ards for geosynthetic components; 01.400(3)(d),FAC)
			_		(1)	Factory and field seam test methods to ensure all geomembrane seams achieve the minimum specifications;
					(2)	Geomembranes to be used shall pass a continuous spark test by the manufacturer;
			_		(3)	Design of 24-inch-thick protective layer above upper geomembrane liner;
			_		(4)	Describe operational plans to protect the liner and leachate collection system when placing the first layer of waste above 24-inch-thick protective layer.
			_		(5)	HDPE geomembranes, if used, meet the specifications in GRI GM13 and LLDPE geomembranes, if used, meet the specifications in GRI GM17;
					(6)	PVC geomembranes, if used, meet the specifications in PGI 1104;
			_		(7)	Interface shear strength testing results of the actual components which will be used in the liner system;
					(8)	Transmissivity testing results of geonets if they are used in the liner system;
					(9)	Hydraulic conductivity testing results of geosynthetic clay liners if they are used in the liner system;
				е.		nthetic specification requirements; 01.400(3)(e),FAC)
			_		(1)	Definition and qualifications of the designer, manufacturer, installer, QA consultant and laboratory, and QA program;
					(2)	Material specifications for geomembranes, geocomposites, geotextiles, geogrids, and

geonets;

<u>s</u>	LOCATION	N/A	N/C		PART G CONTINUED
_				(	Manufacturing and fabrication specifications including geomembrane raw material and roll QA, fabrication personnel qualifications, seaming equipment and procedures, overlaps, trial seams, destructive and nondestructive seam testing, seam testing location, frequency, procedure, sample size and geomembrane repairs;
				(	Geomembrane installation specifications including earthwork, conformance testing, geomembrane placement, installation personnel qualifications, field seaming and testing, overlapping and repairs, materials in contact with geomembrane and procedures for lining system acceptance;
			_	(,	Geotextile and geogrid specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil materials and any overlying materials;
				(	Geonet and geocomposite specifications including handling and placement, conformance testing, stacking and joining, repair, and placement of soil materials and any overlying materials;
				(	Geosynthetic clay liner specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil material and any overlying materials;
					Standards for soil liner components (62-710.400(3)(f),FAC):
			_	(	Description of construction procedures including overexcavation and backfilling to preclude structural inconsistencies and procedures for placing and compacting soil component in layers;
				()	Demonstration of compatibility of the soil component with actual or simulated leachate in accordance with EPA Test Method 9100 or an equivalent test method;
				(	(3) Procedures for testing in-situ soils to demonstrate they meet the specifications

(4)

for soil liners;
Specifications for soil component of liner

including at a minimum:

 <u>s</u>	LOCATION	<u>N/A</u>	<u>N/C</u>				(a)	Allowable particle size distribution, Atterberg limits, shrinkage limit; G CONTINUED
							(b)	Placement moisture and dry density criteria;
							(c)	Maximum laboratory-determined saturated hydraulic conductivity using simulated leachate;
							(d)	Minimum thickness of soil liner;
							(e)	Lift thickness;
							(f)	Surface preparation (scarification);
							(g)	Type and percentage of clay mineral within the soil component;
						(5)	field satur	dures for constructing and using a test section to document the desired ated hydraulic conductivity and mess can be achieved in the field.
					g.	with descr	a bott ciption	III landfill is to be constructed om liner system, provide a of how the minimum requirements for ill be achieved.
				3.			llecti (4),FA	on and removal system (LCRS); C)
					a.			<pre>and secondary LCRS requirements; (4)(a),FAC)</pre>
						(1)		ructed of materials chemically tant to the waste and leachate;
						(2)		sufficient mechanical properties to nt collapse under pressure;
						(3)		granular material or synthetic xtile to prevent clogging;
						(4)	clogg	method for testing and cleaning ed pipes or contingent designs for ting leachate around failed areas;
					b.			requirements; (4)(b) and (c),FAC)
						(1)		m 12 inches having hydraulic ctivity $\geq 1 \times 10^{-3}$ cm/sec;
						(2)		thickness of 24 inches of material cally resistant to the waste and ate;

						(3)	Bottom slope design to accommodate for predicted settlement and still meet minimum slope requirements;	
<u>s</u>	LOCATION	<u>N/A</u>	N/C				PART G CONTINUED	
						(4)	Demonstration that synthetic drainage material, if used, is equivalent or better than granular material in chemical compatibility, flow under load and protection of geomembrane liner.	
				4.	Leach	ate red	circulation; (62-701.400(5), FAC)	
					a.	Descri leach	ibe general procedures for recirculating ate;	
					b. Describe procedures for controlling leachate runoff and minimizing mixing of leachate runoff with storm water;			
					С.		ibe procedures for preventing perched water tions and gas buildup;	
			_		d.	manage weathe wind-l	ibe alternate methods for leachate ement when it cannot be recirculated due to er or runoff conditions, surface seeps, clown spray, or elevated levels of leachate on the liner;	
					е.		ibe methods of gas management in accordance Rule 62-701.530, FAC;	
					f.	treatr treatr and p	ment methods and standards for leachate ment prior to irrigation over final cover rovide documentation that irrigation does ontribute significantly to leachate ation.	
				5.			prage tanks and leachate surfaces; (62-701.400(6),FAC)	
					a.		ce impoundment requirements; 01.400(6)(b),FAC)	
						(1)	Documentation that the design of the bottom liner will not be adversely impacted by fluctuations of the ground water;	
		_				(2)	Designed in segments to allow for inspection and repair as needed without interruption of service;	
						(3)	General design requirements;	
							(a) Double liner system consisting of an upper and lower 60-mil minimum thickness geomembrane;	

					<pre>(b) Leak detection and collection system   with hydraulic conductivity ≥ 1   cm/sec;</pre>
ន	LOCATION	<u>N/A</u>	N/C		PART G CONTINUED
					(c) Lower geomembrane placed on subbase $\geq$ 6 inches thick with $k \leq 1 \times 10^{-5}$ cm/sec or on an approved geosynthetic clay liner with $k \leq 1 \times 10^{-7}$ cm/sec;
			_		(d) Design calculation to predict potential leakage through the upper liner;
					(e) Daily inspection requirements and notification and corrective action requirements if leakage rates exceed that predicted by design calculations;
				(4)	Description of procedures to prevent uplift, if applicable;
				(5)	Design calculations to demonstrate minimum two feet of freeboard will be maintained;
				(6)	Procedures for controlling vectors and off-site odors.
			b.		e-ground leachate storage tanks; 701.400(6)(c),FAC)
			_	(1)	Describe tank materials of construction and ensure foundation is sufficient to support tank;
				(2)	Describe procedures for cathodic protection if needed for the tank;
			_	(3)	Describe exterior painting and interior lining of the tank to protect it from the weather and the leachate stored;
		_	_	(4)	Describe secondary containment design to ensure adequate capacity will be provided and compatibility of materials of construction;
			_	(5)	Describe design to remove and dispose of stormwater from the secondary containment system;
				(6)	Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling;

						('/)	-	ections, corrective action and eting requirements;
							(a)	Overfill prevention system weekly;
							(b)	Exposed tank exteriors weekly;
<u>s</u>	LOCATION	N/A	N/C				PART	G CONTINUED
							(c)	Tank interiors when tank is drained or at least every three years;
							(d)	Procedures for immediate corrective action if failures detected;
							(e)	Inspection reports available for department review.
					С.			l leachate storage tanks; (6)(d),FAC)
						(1)	Descr	ribe materials of construction;
						(2)		able-walled tank design system to be with the following requirements;
							(a)	<pre>Interstitial space monitoring at least weekly;</pre>
							(b)	Corrosion protection provided for primary tank interior and external surface of outer shell;
							(c)	<pre>Interior tank coatings compatible with stored leachate;</pre>
							(d)	Cathodic protection inspected weekly and repaired as needed;
						(3)	such shut	ribe an overfill prevention system as level sensors, gauges, alarms and off controls to prevent overfilling provide for weekly inspections;
						(4)		ection reports available for thent review.
					d.			ovided for routine maintenance of 01.400(6)(e),FAC)
				6.		syste 01.400		struction quality assurance (CQA);
					a.	Provi	.de CQA	Plan including:
						(1)		fications and construction rements for liner system;
						(2)		led description of quality control ng procedures and frequencies;

					(3)	Identification of supervising professional engineer;
LOCATION	<u> </u>	<u> </u>			(4)	Identify responsibility and authority of all appropriate organizations and key personnel involved in the construction project;  PART G CONTINUED
					(5)	State qualifications of CQA professional engineer and support personnel;
					(6)	Description of CQA reporting forms and documents;
				b.		dependent laboratory experienced in the ng of geosynthetics to perform required ng;
			7. Sc	oil Lir	ner CQA	(62-701.400(8)FAC)
				a.	been the f	mentation that an adequate borrow source has located with test results or description of ield exploration and laboratory testing cam to define a suitable borrow source;
				b.	and t	iption of field test section construction est methods to be implemented prior to installation;
				С.	rejec	iption of field test methods including tion criteria and corrective measures to be proper liner installation.
			8.	dispo desig to a	osal un gn of a permit	water management systems at aboveground its, provide documentation showing the my features intended to convey stormwater ted or exempted treatment system; (62-FAC)
			9.	Gas o	control	systems; (62-701.400(10),FAC)
				a.	recei contr	de documentation that if the landfill is ving degradable wastes, it will have a gas ol system complying with the requirements le 62-701.530, FAC;
	LOCATION	LOCATION N/A	LOCATION N/A N/C	7. So	b.  7. Soil Lir a.  b.  8. For soil species to a 701.4  9. Gas of 39.	LOCATION N/A N/C  (5)  (6)  (6)  (7) Soil Liner CQA  (8) Described the five program of a to a permit 701.400 (9),  (9) Gas control  (9) An intestitesti  (9) An intestitesti  (1) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4)  (5)  (6)  (6)  (7) Soil Liner CQA  (8) Described insurations  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4)  (5)  (6)  (7) Soil Liner CQA  (8) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4) An intestitesti  (4) An intestitesti  (4) An intestitesti  (4) An intestitesti  (5) An intestitesti  (6) An intestitesti  (6) An intestitesti  (7) Soil Liner CQA  (8) An intestitesti  (9) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4) An intestitesti  (4) An intestitesti  (4) An intestitesti  (5) An intestitesti  (6) An intestitesti  (6) An intestitesti  (7) Soil Liner CQA  (8) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4) An intestitesti  (4) An intestitesti  (5) An intestitesti  (6) An intestitesti  (7) Soil Liner CQA  (8) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4) An intestitesti  (4) An intestitesti  (4) An intestitesti  (5) An intestitesti  (6) An intestitesti  (7) An intestitesti  (8) An intestitesti  (9) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An intestitesti  (2) An intestitesti  (3) An intestitesti  (4) An intestitesti  (4) An intestitesti  (5) An intestitesti  (6) An intestitesti  (7) An intestitesti  (8) An intestitesti  (9) An intestitesti  (9) An intestitesti  (1) An intestitesti  (1) An intestitesti  (1) An in

(62-701.400(11),FAC)

10.

For landfills designed in ground water, provide documentation that the landfill will provide a degree of protection equivalent to landfills designed with bottom liners not in contact with ground water;

### HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS (62-701.410(1), FAC) PART H. S LOCATION N/A N/C 1. Submit a hydrogeological investigation and site report including at least the following information: Regional and site specific geology and hydrogeology; Direction and rate of ground water and surface b. water flow including seasonal variations; Background quality of ground water and surface c. water; d. Any on-site hydraulic connections between aquifers; Site stratigraphy and aguifer characteristics е. for confining layers, semi-confining layers, and all aquifers below the landfill site that may be affected by the landfill; f. Description of topography, soil types and surface water drainage systems; Inventory of all public and private water wells g. within a one-mile radius of the landfill including, where available, well top of casing and bottom elevations, name of owner, age and usage of each well, stratigraphic unit screened, well construction technique and static water level; h. Identify and locate any existing contaminated areas on the site; Include a map showing the locations of all i. potable wells within 500 feet of the waste storage and disposal areas; Report signed, sealed and dated by PE and/or PG. 2. PART I. GEOTECHNICAL INVESTIGATION REQUIREMENTS (62-701.410(2), FAC) LOCATION S N/A N/C 1. Submit a geotechnical site investigation report defining the engineering properties of the site including at least the following: Description of subsurface conditions including a. soil stratigraphy and ground water table conditions; b. Investigate for the presence of muck, previously filled areas, soft ground, lineaments and sink holes;

<u>s</u>	LOCATION	N/A	N/C			PART I CONTINUED
						Estimates of average and maximum high water table across the site;
					d. 1	Foundation analysis including:
						(1) Foundation bearing capacity analysis;
						(2) Total and differential subgrade settlement analysis;
						(3) Slope stability analysis;
					:	Description of methods used in the investigation and includes soil boring logs, laboratory results, analytical calculations, cross sections, interpretations and conclusions;
					:	An evaluation of fault areas, seismic impact zones, and unstable areas as described in 40 CFR 258.13, 40 CFR 258.14 and 40 CFR 258.15.
				2.	Report	signed, sealed and dated by PE and/or PG.
PART	J. VERT	ICAL EX	(PANSIC	ON OF	LANDFILLS	(62-701.430, FAC)
<u>s</u>	LOCATION	N/A	N/C			
				1.	contrib landfi	be how the vertical expansion shall not cause or bute to leachate leakage from the existing ll, shall not cause objectionable odors, or ely affect the closure design of the existing ll;
				2.	landfi 701.400	be how the vertical expansion over unlined alls will meet the requirements of Rule 62-0, FAC with the exceptions of Rule 62-0(1)(c),FAC;
				3.		e foundation and settlement analysis for the al expansion;
				4.	that th	e total settlement calculations demonstrating ne final elevations of the lining system, that y drainage, and that no other component of the will be adversely affected;
				5.		n stability safety factor of 1.5 for the lining component interface stability and deep ity;
				6.	manager	e documentation to show the surface water ment system will not be adversely affected by the al expansion;
				7.		e gas control designs to prevent accumulation of der the new liner for the vertical expansion.

### PART K. LANDFILL OPERATION REQUIREMENTS (62-701.500, FAC)

<u>s</u>	LOCATION	<u>N/A</u>	N/C		
		_		1.	Provide documentation that landfill will have at least one trained operator during operation and at least one trained spotter at each working face; (62-701.500(1),FAC)
				2.	Provide a landfill operation plan including procedures for: (62-701.500(2), FAC)
					a. Designating responsible operating and maintenance personnel;
					b. Emergency preparedness and response, as required in subsection 62-701.320(16), FAC;
					c. Controlling types of waste received at the landfill;
					d. Weighing incoming waste;
					e. Vehicle traffic control and unloading;
					f. Method and sequence of filling waste;
					g. Waste compaction and application of cover;
					h. Operations of gas, leachate, and stormwater controls;
					i. Water quality monitoring.
					j. Maintaining and cleaning the leachate collection system;
				3.	Provide a description of the landfill operation record to be used at the landfill; details as to location of where various operational records will be kept (i.e. FDEP permit, engineering drawings, water quality records, etc.) (62-701.500(3),FAC)
				4.	Describe the waste records that will be compiled monthly and provided to the Department annually; (62-701.500(4),FAC)
				5.	Describe methods of access control; (62-701.500(5),FAC
				6.	Describe load checking program to be implemented at the landfill to discourage disposal of unauthorized wastes at the landfill; (62-701.500(6),FAC)
				7.	Describe procedures for spreading and compacting waste at the landfill that include: (62-701.500(7),FAC)
					a. Waste layer thickness and compaction frequencies;

<u>s</u>	LOCATION	N/A	N/C			PART K CONTINUED
					b.	Special considerations for first layer of waste placed above liner and leachate collection system;
					С.	Slopes of cell working face and side grades above land surface, planned lift depths during operation;
					d.	Maximum width of working face;
					е.	Description of type of initial cover to be used at the facility that controls:
						(1) Vector breeding/animal attraction
						(2) Fires
						(3) Odors
						(4) Blowing litter
						(5) Moisture infiltration
					f.	Procedures for applying initial cover including minimum cover frequencies;
					g.	Procedures for applying intermediate cover;
					h.	Time frames for applying final cover;
_					i.	Procedures for controlling scavenging and salvaging.
					j.	Description of litter policing methods;
					k.	Erosion control procedures.
				8.		ibe operational procedures for leachate management ding; (62-701.500(8),FAC)
					a.	Leachate level monitoring, sampling, analysis and data results submitted to the Department;
					b.	Operation and maintenance of leachate collection and removal system, and treatment as required;
					С.	Procedures for managing leachate if it becomes regulated as a hazardous waste;
					d.	Identification of treatment or disposal facilities that may be used for off-site discharge and treatment of leachate;
					е.	Contingency plan for managing leachate during emergencies or equipment problems;

<u>s</u>	LOCATION	<u>N/A</u>	<u>N/C</u>		f.	Procedures for recording quantities of leachate generated in gal/day and including this in the operating record;  PART K CONTINUED			
					g.	Procedures for comparing precipitation experienced at the landfill with leachate generation rates and including this information in the operating record;			
					h.	Procedures for water pressure cleaning or video inspecting leachate collection systems.			
				9.	shall requi	ribe how the landfill receiving degradable wastes implement a gas management system meeting the rements of Rule 62-701.530, FAC; 01.500(9),FAC)			
				10.	landf the r	Describe procedures for operating and maintaining the landfill stormwater management system to comply with the requirements of Rule 62-701.400(9); (62-701.500(10),FAC)			
				11.		ment and operation feature requirements; 01.500(11),FAC)			
					a.	Sufficient equipment for excavating, spreading, compacting and covering waste;			
					b.	Reserve equipment or arrangements to obtain additional equipment within 24 hours of breakdown;			
					С.	Communications equipment;			
					d.	Dust control methods;			
					е.	Fire protection capabilities and procedures for notifying local fire department authorities in emergencies;			
					f.	Litter control devices;			
					g.	Signs indicating operating authority, traffic flow, hours of operation, disposal restrictions			
				12.	insid acces	de a description of all-weather access road, le perimeter road and other roads necessary for s which shall be provided at the landfill; 01.500(12),FAC)			
				13.		<pre>ional record keeping and reporting requirements; 01.500(13),FAC)</pre>			
					a.	Records used for developing permit applications and supplemental information maintained for the design period of the landfill;			

b.	Monitoring	informatio	on, cal	ibrati	on and	d
	maintenanc	e records,	copies	of re	ports	required
	by permit	maintained	for at	least	10 ye	ears;

s	LOCATION	N/A	N/C	PART K CONTINUED						
					C.	of co	ain annual estimates of the remaining life instructed landfills and of other permitted not yet constructed and submit this late annually to the Department;			
_					d.		dures for archiving and retrieving records are more than five year old.			
PART	L. WATER	QUALI	TY AND	LEACH	ATE MON	IITORII	NG REQUIREMENTS (62-701.510, FAC)			
<u>s</u>	LOCATION	N/A	N/C							
				1.	submi water	tted d and l	ty and leachate monitoring plan shall be escribing the proposed ground water, surfac eachate monitoring systems and shall meet a ollowing requirements;			
					a.	hydro and s	on the information obtained in the geological investigation and signed, dated ealed by the PG or PE who prepared it; 01.510(2)(a),FAC)			
					b.	accor	ampling and analysis preformed in dance with Chapter 62-160, FAC; 01.510(2)(b),FAC)			
					С.		d water monitoring requirements; 01.510(3),FAC)			
						(1)	Detection wells located downgradient from and within 50 feet of disposal units;			
						(2)	Downgradient compliance wells as required;			
		_				(3)	Background wells screened in all aquifers below the landfill that may be affected by the landfill;			
						(4)	Location information for each monitoring well;			
		_				(5)	Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;			
						(6)	Well screen locations properly selected;			
		_				(7)	Monitoring wells constructed to provide representative ground water samples;			
						(8)	Procedures for properly abandoning monitoring wells;			
						(9)	Detailed description of detection sensors if proposed.			

<u>s</u>	LOCATION	<u>N/A</u>	N/C			PART L CONTINUED
				d.		ce water monitoring requirements; 01.510(4),FAC)
			_		(1)	Location of and justification for all proposed surface water monitoring points;
			_		(2)	Each monitoring location to be marked and its position determined by a registered Florida land surveyor;
				е.		al and routine sampling frequency and rements; (62-701.510(5), FAC)
			_		(1)	<pre>Initial background ground water and surface water sampling and analysis requirements;</pre>
					(2)	Routine monitoring well sampling and analysis requirements;
					(3)	Routine surface water sampling and analysis requirements.
			_	f.	monit	ribe procedures for implementing evaluation oring, prevention measures and corrective on as required; (62-701.510(6), FAC)
				g.		quality monitoring report rements; (62-701.510(8),FAC)
			_		(1)	Semi-annual report requirements (see paragraphs 62-701.510(5)(c) and (d) for sampling frequencies);
					(2)	Documentation that the water quality data shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases, unless an alternate form of submittal is specified in the permit.
					(3)	Two and one-half year report requirements, or every five years if in long-term care, signed, dated and sealed by PG or PE.

### SPECIAL WASTE HANDLING REQUIREMENTS (62-701.520, FAC) PART M. S LOCATION N/A N/C Describe procedures for managing motor vehicles; (62-701.520(1), FAC) Describe procedures for landfilling shredded waste; 2. (62-701.520(2), FAC) Describe procedures for asbestos waste disposal; 3. (62-701.520(3), FAC) Describe procedures for disposal or management of 4. contaminated soil; (62-701.520(4), FAC) Describe procedures for disposal of biological wastes; (62-701.520(5), FAC)PART N. GAS MANAGEMENT SYSTEM REQUIREMENTS (62-701.530, FAC) Provide the design for a gas management system that 1. will (62-701.530(1), FAC): Be designed to prevent concentrations of combustible gases from exceeding 25% the LEL in structures and 100% the LEL at the property boundary; Be designed for site-specific conditions; b. Be designed to reduce gas pressure in the C. interior of the landfill; Be designed to not interfere with the liner, d. leachate control system or final cover. 2. Provide documentation that will describe locations, construction details and procedures for monitoring gas at ambient monitoring points and with soil monitoring probes; (62-701.530(2), FAC): 3. Provide documentation describing how the gas remediation plan and odor remediation plan will be implemented; (62-701.530(3), FAC): 4. Landfill gas recovery facilities; (62-701.530(5), FAC): Information required in Rules 62-701.320(7) and a. 62-701.330(3), FAC supplied; Information required in Rule 62-701.600(4), FAC b. supplied where relevant and practical; c. Estimate of current and expected gas generation rates and description of condensate disposal methods provided; d. Description of procedures for condensate

sampling, analyzing and data reporting provided;

<u>s</u>	LOCATION	<u>N/A</u>	N/C		PART N CONTINUED
				contro operat	e plan provided describing methods to l gas after recovery facility ceases ion and any other requirements contained e 62-701.400(10), FAC;
PART	O. LANDF	ILL FI	NAL C	OSURE REQUIREMENTS (	62-701.600,FAC)
				1. Closure perm (62-701.600(	it requirements; 2),FAC)
					ation submitted to Department at least 90 rior to final receipt of wastes;
				b. Closur	e plan shall include the following:
				(1)	Closure design plan;
				(2)	Closure operation plan;
				(3)	Plan for long-term care;
					A demonstration that proof of financial responsibility for long-term care will be provided.
					gn plan including the following: (62-701.600(3),FAC)
				a. Plan s	heet showing phases of site closing;
					gs showing existing topography and ed final grades;
					ions to close units when they reach ed design dimensions;
				d. Final	elevations before settlement;
				down s	lope design including benches, terraces, lope drainage ways, energy dissipaters and sion of expected precipitation effects;
				f. Final	cover installation plans including:
					CQA plan for installing and testing final cover;
					Schedule for installing final cover after final receipt of waste;
					Description of drought-resistant species to be used in the vegetative cover;
<u>s</u>	LOCATION	<u>N/A</u>	N/C		PART O CONTINUED

						(4)	Top gradient design to maximize runoff and minimize erosion;
						(5)	Provisions for cover material to be used for final cover maintenance.
					g.	Final	cover design requirements:
						(1)	Protective soil layer design;
						(2)	Barrier soil layer design;
						(3)	Erosion control vegetation;
						(4)	Geomembrane barrier layer design;
						(5)	Geosynthetic clay liner design if used;
						(6)	Stability analysis of the cover system and the disposed waste.
					h.	Propo	sed method of stormwater control;
					i.	Propo	sed method of access control;
					j.	manag	iption of the proposed or existing gas ement system which complies with Rule 62-30, FAC.
				3.			ration plan shall include: (4),FAC)
					a.		<pre>led description of actions which will be   to close the landfill;</pre>
					b.		schedule for completion of closing and term care;
					С.		ibe proposed method for demonstrating cial assurance for long-term care;
					d.		tion of the water quality monitoring plan red in Rule 62-701.510, FAC.
					е.		opment and implementation of gas management m required in Rule 62-701.530, FAC.
				4.			on of closure construction completion (62-701.600(6),FAC)
					a.	Surve	y monuments; (62-701.600(6)(a),FAC)
					b.	Final	survey report; (62-701.600(6)(b),FAC)
				5.	Decla	ration	to the public; (62-701.600(7),FAC)
				6.	Offic	ial da	te of closing; (62-701.600(8),FAC)
<u>s</u>	LOCATION	<u>N/A</u>	N/C				PART O CONTINUED

			7.	Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (62-701.600(9),FAC)
PART	P. OTHER (	CLOSURE 1	PROCEDURES	3 (62-701.610, FAC)
<u>s</u>	LOCATION	N/A N/O	<u> 2</u>	
			_ 1.	Describe how the requirements for use of closed solid waste disposal areas will be achieved; (62-701.610(1),FAC)
			2.	Describe how the requirements for relocation of wastes will be achieved; (62-701.610(2), FAC)
PART	Q. LONG-TI	ERM CARE	(62-701.6	520,FAC)
			1.	Maintaining the gas collection and monitoring system; (62-701.620(5), FAC)
			2.	Stabilization report requirements; (62-701.620(6),FAC)
			3.	Right of access; (62-701.620(7), FAC)
			4.	Requirements for replacement of monitoring devices; (62-701.620(8),FAC)
			_ 5.	Completion of long-term care signed and sealed by professional engineer (62-701.620(9), FAC).
PART	R. FINANC	IAL ASSU	RANCE (62-	-701.630,FAC)
			_ 1.	Provide cost estimates for closing, long-term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (62-701.630(3)&(7), FAC).
			2.	Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; $(62-701.630(4)\&(8), FAC)$ .
			_ 3.	Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; $(62-701.630(5), (6), &(9), FAC)$ .

### PART S. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

The undersigned applicant or authori	ized representative of
is aw	ware that statements made in this form and at
this application is true, correct arbelief. Further, the undersigned ag 403, Florida Statutes, and all rules	Protection and certifies that the information of complete to the best of his/her knowledge grees to comply with the provisions of Chaptes and regulations of the Department. It is ransferable, and the Department will be notified.
Signature of Applicant or Agent	Mailing Address
Name and Title (please type)	City, State, Zip Code
E-Mail address (if available)	() Telephone Number
	Date:
Attach letter of authorization if accorporate officer.	gent is not a governmental official, owner, o
corporate officer.  Professional Engineer registered in Sections 403.707 and 403.7075, Flori	gent is not a governmental official, owner, of second seco
Professional Engineer registered in Sections 403.707 and 403.7075, Flori This is to certify that the engineer facility have been designed/examined principles applicable to such facilifacility, when properly maintained a statutes of the State of Florida and	gent is not a governmental official, owner, of Florida (or Public Officer if authorized undida Statutes):  ring features of this solid waste management d by me and found to conform to engineering ities. In my professional judgment, this and operated, will comply with all applicabled rules of the Department. It is agreed that ant with a set of instructions of proper
Professional Engineer registered in Sections 403.707 and 403.7075, Flori This is to certify that the engineer facility have been designed/examined principles applicable to such facilifacility, when properly maintained a statutes of the State of Florida and undersigned will provide the applications.	gent is not a governmental official, owner, of Florida (or Public Officer if authorized undida Statutes):  ring features of this solid waste management d by me and found to conform to engineering ities. In my professional judgment, this and operated, will comply with all applicabled rules of the Department. It is agreed that ant with a set of instructions of proper
Professional Engineer registered in Sections 403.707 and 403.7075, Flori This is to certify that the engineer facility have been designed/examined principles applicable to such facili facility, when properly maintained a statutes of the State of Florida and undersigned will provide the applicate maintenance and operation of the face	gent is not a governmental official, owner, of Florida (or Public Officer if authorized undida Statutes):  ring features of this solid waste management d by me and found to conform to engineering ities. In my professional judgment, this and operated, will comply with all applicable d rules of the Department. It is agreed that ant with a set of instructions of proper cility.
Professional Engineer registered in Sections 403.707 and 403.7075, Flori This is to certify that the engineer facility have been designed/examined principles applicable to such facilification, when properly maintained a statutes of the State of Florida and undersigned will provide the applicate maintenance and operation of the face.  Signature	gent is not a governmental official, owner, of Florida (or Public Officer if authorized undida Statutes):  ring features of this solid waste management d by me and found to conform to engineering ities. In my professional judgment, this and operated, will comply with all applicabled rules of the Department. It is agreed that ant with a set of instructions of proper cility.  Mailing Address