



This checklist indicates information included in the permit on the date the checklist was completed. Any approvals, demonstrations or plans the facility may have previously submitted to the Department not included in the permit were not included in this review. Facilities that lack current, facility specific permit modules remain subject to their existing permits, any approved plans, and the standards in the applicable regulations.

**10-Year Permit Review, VA Code 10.1 - 1408.1.E.
Permit Review Checklist for Landfills**

Reviewed By: Rebecca Dietrich
 Date Reviewed: 3/27/2005
 Facility Type: Sanitary Landfill
 Facility Name: Orange County SLF
 Permit No.: 566
 Permit Issued Date: 4/29/1994
 Amendment 1 Date: _____
 Amendment 2 Date: _____
 Amendment 3 Date: _____
 HB1205 Ranking: N/A
 Title V: N/A

Findings/Deficiencies:

This facility has not been constructed.

The format of the permit needs to be updated to follow the Permit Fee Regulations.

<u>Existing Permit</u>	<u>New Format</u>
Permit Module II "Final Detection Monitoring"	Permit Module X "Detection Monitoring"
Permit Module III "Assessment GW Monitoring"	Permit Module XI "Assessment Monitoring"
Permit Module IV "Design and Construction"	Permit Module III "Design and Construction"
Permit Module V "Operations"	Permit Module II "Operations"
Permit Module VI "Closure and Post-Closure Care"	Permit Module XII/XIII "Closure and Post-Closure Care"

The permit modules and attachments need to be updated to reflect the current regulations.

The permit should be updated to indicate if quarterly groundwater monitoring will be necessary due to proximity to wetlands.

The Operations Manual should be updated to include an Unauthorized Waste Acceptance Plan. (9 VAC 20-80-250.C.1 & 9 VAC 20-80-520.C.2.f)

The closure schedule for Phase I and Phase II needs to be updated. (9 VAC 20-80-250.E.3.a(4))

The Closure Plan should include the requirement for a closure inspection by the Department. (9 VAC 20-80-250.E.6 & 7)

The length of the post-closure care period should be included in the Post-Closure Plan. (9 VAC 20-80-250.F.2)

The approved Financial Assurance cost estimate should be included in the Closure/Post-Closure Plan. (9 VAC 20-70-111 & 112)

Applicable Regs. By Facility Type:	Sanitary Landfill 9 VAC 20-80-250 9 VAC 20-80-520	CDD Landfill 9 VAC 20-80-260 9 VAC 20-80-520	Industrial Landfill 9 VAC 20-80-270 9 VAC 20-80-520	Transfer Station 9 VAC 20-80-340 9 VAC 20-80-320 9 VAC 20-80-540
	Material Recovery 9 VAC 20-80-360 9 VAC 20-80-320 9 VAC 20-80-540	Eng. Rec. & Incin. 9 VAC 20-80-370 9 VAC 20-80-320 9 VAC 20-80-530	Surface Impound. 9 VAC 20-80-380 9 VAC 20-80-320 9 VAC 20-80-540	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
I.	General Information			
A.	Part A Approval	N	9 VAC 20-80-500 C	Neither the Part A approval letter nor the date of Part A approval are included in the permit.
B.	Approval Date:	mm/dd/yy		
C.	1993 Subtitle D Amendment	Y	9 VAC 20-80-250 A, 9 VAC 20-80-260 A, & 9 VAC 20-80-270 A	A Part A Permit Application demonstrating compliance with Subtitle D siting requirements was submitted.
D.	Part A Expansion	N		No Part A Expansion has been requested.

II.	General Site Plans			
A.	Existing Site Conditions	Y	9 VAC 20-80-520 A 1 b	
B.	Base Grade Plan	Y	9 VAC 20-80-520 A 1 c	
C.	Modification Plans	Y	9 VAC 20-80-520 A 1 d	
D.	Phasing Plan	Y	9 VAC 20-80-520 A 1 f & 9 VAC 20-80-520 A 1 h	
E.	Cross Sections	Y	9 VAC 20-80-520 A 1 h	
F.	Flood Plain	Y	9 VAC 20-80-250 A 2, 9 VAC 20-80-260 A 1, & 9 VAC 20-80-270 A 1	
G.	Wetlands	N	9 VAC 20-80-250 A.4, 9 VAC 20-80-260 A.6, 9 VAC 20-80-270 A 5	Wetlands are discussed in the Part A Application but it is not clear on the Design Plans if the wetlands are delineated.
H.	General Facility Info	Y	9 VAC 20-80-520 B 1 & 9 VAC 20-80-520 B 2	
I.	Site Access	Y	9 VAC 20-80-250 B 1, 9 VAC 20-80-250 B 2, 9 VAC 20-80-260 B 1, 9 VAC 20-80-260 B 2, 9 VAC 20-80-270 B 1, 9 VAC 20-80-270 B 2, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
J.	Utilities	Y	9 VAC 20-80-250 B 3, 9 VAC 20-80-250 B 5, 9 VAC 20-80-260 B 3, 9 VAC 20-80-260 B 5, 9 VAC 20-80-270 B 3, & 9 VAC 20-80-270 B 5	
K.	Aesthetics	Y	9 VAC 20-80-250 B 4, 9 VAC 20-80-260 B 4, 9 VAC 20-80-270 B 4, & 9 VAC 20-80-520 A 1 j(11)	
L.	Location of Cells	Y	9 VAC 20-80-260 B 13, 9 VAC 20-80-260 B 15, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	
M.	Benchmarks	Y	9 VAC 20-80-250 B 16, 9 VAC 20-80-270 B 9, 9 VAC 20-80-520 A 1 j(1)	
N.	Borrow & Stockpile Areas	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-520 A 1 j(7), & 9 VAC 20-80-520 A 1 j(8)	
O.	Final Site Topography Plan	Y	9 VAC 20-80-520 A 1 e	
P.	Monitoring Plan	Y	9 VAC 20-80-520 A 1 g	

III.	Liners			
A.	Regulatory Requirements			

1.	Sanitary Landfills	Y	9 VAC 20-80-250 B 9, 9 VAC 20-80-520 A 1 h, & 9 VAC 20-80-520 B 2	
2.	Other Landfills	N	9 VAC 20-80-260 B 14, 9 VAC 20-80-270 B 14, & 9 VAC 20-80-520 B 2	Only sanitary landfill is proposed.
B.	Design Plans and Report			
1.	Liner System	Y	9 VAC 20-80-520 B 2	
a.	Composite	Y		
b.	Single Liner	N		Only Subtitle D composite liner is proposed.
c.	None	N		Only Subtitle D composite liner is proposed.
2.	Piggy Backing	N		Not proposed

IV.	Liquids Management System			
A.	Leachate Collection & Control			
1.	Leachate Disposal	Y	9 VAC 20-80-290 D	Each phase will have a leachate pond.
a.	POTW	Y	9 VAC 20-80-290 D 1	Leachate will be pumped and hauled to the Town of Orange Sewage Treatment Plant
b.	Recirculation	N	9 VAC 20-80-290 D 3	Not proposed
c.	Other	N	9 VAC 20-80-290 D	Not proposed
2.	Leachate Management Plan	Y	9 VAC 20-80-290	
a.	Collection System	Y	9 VAC 20-80-290 A 2	
b.	Storage	Y	9 VAC 20-80-290 A 3	
c.	Leachate Treatment	N	9 VAC 20-80-290 D 4	Not proposed
B.	Run-on Control System	Y	9 VAC 20-80-250 B 6 a, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-270 B 13, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	
C.	Run-off Control System	Y	9 VAC 20-80-250 B 6 b, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

V.	Gas Management System			
A.	Management Plan	Y	9 VAC 20-80-250 B 8, 9 VAC 20-80-260 B 9, & 9 VAC 20-80-280	
1.	General Requirements	Y	9 VAC 20-80-280 A	
2.	Monitoring	Y	9 VAC 20-80-280 B, C, & D	
3.	Control	Y	9 VAC 20-80-280 E	
4.	Contingency Plan	Y	9 VAC 20-80-280 E 1 a	
5.	Clean Air Act/ VA Operating Permit	N/A	9 VAC 20-80-280 E 3	
B.	Remediation Plan		9 VAC 20-80-280 E 1 c	
1.	Active	N		
2.	Passive	Y		Passive vents
3.	Combination	N		

VI.	Groundwater Monitoring			
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A.	Groundwater Monitoring Plan	Y	9 VAC 20-80-250 B 11, 9 VAC 20-80-300 A 1, 9 VAC 20-80-300 A 3, 9 VAC 20-80-260 B 11, 9 VAC 20-80-300 A 3, 9 VAC 20-80-270 B 12, 9 VAC 20-80-300 A 3, 9 VAC 20-80-520 A 1 g, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
1.	Detection	Y	9 VAC 20-80-300 B 2	Currently Permit Module II, should be updated to Permit Module X.
2.	Assessment	Y	9 VAC 20-80-300 B 3	Currently Permit Module III, should be updated to Permit Module XI.
3.	Phase I	N	9 VAC 20-80-300 C 3	Only for Construction Demolition Debris (CDD), Industrial (ILF), or non-subtitle D landfills
4.	Phase II	N	9 VAC 20-80-300 C 4	Only for CDD, ILF, or non-subtitle D landfills
5.	GPS	Y	9 VAC 20-80-300 B 3 h	
6.	Corrective Action	Y	9 VAC 20-80-310	
7.	Phase III	N	No longer applicable	
8.	Selection of Remedy	N	9 VAC 20-80-310 B	
9.	Implementation of CA	N	9 VAC 20-80-310 C	
10.	GW Monitoring System	Y	9 VAC 20-80-300 A 3	
11.	Wetlands Legislation	N		Update permit to include this information, if applicable
a.	Demonstration Approved	N		Update permit to include this information, if applicable
b.	Quarterly Monitoring	N		Update permit to include this information, if applicable

VII.	Operations Manual			Currently Permit Module IV, move to Permit Module II.
A.	Service Information	Y	9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, 9 VAC 20-80-520 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
B.	Personnel	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-520 C 2 k, 9 VAC 20-80-530 E, & 9 VAC 20-80-540 D	
C.	Site Access	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, & 9 VAC 20-80-270 C 1	
1.	Hours of Operation	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, 9 VAC 20-80-270 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-520 C 2 i, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
2.	Traffic Routing	Y	9 VAC 20-80-250 C 13 d, 9 VAC 20-80-250 C 13 e, 9 VAC 20-80-270 C 10, 9 VAC 20-80-270 C 18, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
D.	Waste Handling	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

1.	Types of Wastes	Y	9 VAC 20-80-10, 9 VAC 20-80-250 C 1, 9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, & 9 VAC 20-80-270 C 14	
2.	Litter Control	Y	9 VAC 20-80-250 C 13 a & 9 VAC 20-80-260 C 2	
3.	Dust, Odor, Vectors	Y	9 VAC 20-80-250 C 13 b, 9 VAC 20-80-260 C 3, & 9 VAC 20-80-270 C 2	
4.	Open Burning	Y	9 VAC 20-80-250 C 8, 9 VAC 20-80-260 C 6, 9 VAC 20-80-270 C 5	
5.	Unauthorized Waste Acceptance Plan	N	9 VAC 20-80-250 C 1 & 9 VAC 20-80-520 C 2 f	
E.	Filling Operation	Y	9 VAC 20-80-250 C 13 f, 9 VAC 20-80-270 C 12 a, & 9 VAC 20-80-270 C 15	
F.	Handling of Special Wastes	Y	9 VAC 20-80-250 C 16 b, 9 VAC 20-80-250 C 16 o, 9 VAC 20-80-C 16 t, 9 VAC 20-80-250 C 16 x, & 9 VAC 20-80-270 C 11	
G.	Equipment	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-260 C 5, 9 VAC 20-80-270 C 4, 9 VAC 20-80-270 C 17, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
H.	Compaction and Cover	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-260 C 11, & 9 VAC 20-80-270 C 11	
1.	ADC Approvals	N	9 VAC 20-80-250 C 2 c	No Alternate Daily Cover (ADC) proposed
I.	Safety	Y	9 VAC 20-80-250 C 5, 9 VAC 20-80-260 C 4, 9 VAC 20-80-270 C 3, & 9 VAC 20-80-520 C 2 h	
J.	Inspection	Y	9 VAC 20-80-250 C 1, 9 VAC 20-80-270 C 14, & 9 VAC 20-80-520 C 2 f	
K.	Control & Monitoring of Liquids & Gases	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
L.	Records	Y	9 VAC 20-80-250 C 18, 9 VAC 20-80-260 C 9, 9 VAC 20-80-270 C 7, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

VIII.	Closure Plan			Currently Permit Module VI, move to Permit Module XII.
A.	General	Y	9 VAC 20-80-250 E 9 VAC 20-80-260 E, 9 VAC 20-80-270 E, 9 VAC 20-80-320 C, 9 VAC 20-80-330 E, 9 VAC 20-80-340 E, 9 VAC 20-80-360 E, 9 VAC 20-80-370 E, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E, 9 VAC 20-80-470 E, 9 VAC 20-80-520 A 1 e, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, 9 VAC 20-80-540 E, & 9 VAC 20-80-560	

1.	Units & Status	Y	9 VAC 20-80-250 E 4, 9 VAC 20-80-260 E 3, & 9 VAC 20-80-270 E 3	
2.	Capped Area Approvals	Y	9 VAC 20-80-250 E 5 b, & 9 VAC 20-80-260 E 7	
B.	Time-frames for Closure	Y	9 VAC 20-80-250 E 3, 9 VAC 20-80-260 E 3, 9 VAC 20-80-270 E 3, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, & 9 VAC 20-80-540 E	
C.	Closure of Disposal Units	Y	9 VAC 20-80-250 E 1, 9 VAC 20-80-250 E 5, 9 VAC 20-80-260 E 1, 9 VAC 20-80-270 E 1, 9 VAC 20-80-270 E 5, & 9 VAC 20-80-320 C	
1.	Surface Impoundments	Y	9 VAC 20-80-380 B	
D.	Cover Design	Y	9 VAC 20-80-250 E 1 b(1), 9 VAC 20-80-260 E 1 b(1), & 9 VAC 20-80-270 E 1 b(1)	
E.	E&S Control Plan	Y	9 VAC 20-80-250 E 1 b(2), 9 VAC 20-80-260 E 1 b(2), & 9 VAC 20-80-270 E 1 b(2)	
F.	Schedule for Closure	Y	9 VAC 20-80-250 E 3 a(4), 9 VAC 20-80-260 E 2 a(2), 9 VAC 20-80-270 E 2 a(2), 9 VAC 20-80-330 E 3, 9 VAC 20-80-340 E 3, 9 VAC 20-80-360 E 3, 9 VAC 20-80-370 E 3, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E 3, & 9 VAC 20-80-470 E 3	The closure schedule needs to be updated for Phase I and Phase II.
G.	Notification	Y	9 VAC 20-80-250 E 5 d, 9 VAC 20-80-260 E 5, & 9 VAC 20-80-270 E 6	
H.	Inspection	N	9 VAC 20-80-250 E 6&7, 9 VAC 20-80-260 E 5 & 6, 9 VAC 20-80-270 E 5 & 6	Include requirement for Department inspection to verify closure.

IX.	Post Closure Plan			
A.	General	Y	9 VAC 20-80-250 F, 9 VAC 20-80-260 F, & 9 VAC 20-80-270 F	
1.	Post Closure Period Required	N	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
2.	Years Remaining	N	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
B.	Monitoring Plan	Y	9 VAC 20-80-250 F 4 a, 9 VAC 20-80-260 F 3 a, & 9 VAC 20-80-270 F 3 a	
C.	Post Closure Uses	Y	9 VAC 20-80-250 F 4 c, 9 VAC 20-80-260 F 3 c, & 9 VAC 20-80-270 F 3 c	

X.	Financial Assurance		9 VAC 20-70-10	
A.	Cost Est. Approval	N	9 VAC 20-70-111 & 112	
B.	Mechanism	N	9 VAC 20-70-140	Not required



This checklist indicates information included in the permit on the date the checklist was completed. Any approvals, demonstrations or plans the facility may have previously submitted to the Department not included in the permit were not included in this review. Facilities that lac current, facility specific permit modules remain subject to their existing permits, any approved plans, and the standards in the applicable regulations.

10-Year Permit Review, VA Code 10.1 - 1408.1.E.
 Permit Review Checklist for Landfills

Reviewed By: Graham Simmerman Geologist: Larry Syverson
 Date Reviewed: 3/29/2005
 Facility Type: Inactive Sanitary Landfill
 Facility Name: Battle Creek Landfill
 Permit No.: 579
 Permit Issued Date: February 21, 1995
 Amendment 1 Date: November 12, 1998
 Amendment 2 Date: January 7, 1999
 Amendment 3 Date: March 9, 1999
 Amendment 4 Date: April 20, 2001
 Amendment 5 Date: July 31, 2001
 Amendment 6 Date: September 11, 2003
 Permit Revocation: March 10, 2004
 Part A Amendment: June 2, 1993
 HB1205 Ranking: n/a
 Title V: Yes, but not approved.

Findings/Deficiencies: Solid Waste Operating Permit No. 579 revoked March 10, 2005. Facility has negotiated a court order to potentially reopen under Page County control. The facility is not currently operating. The permit addresses most of the current regulatory items. However, the permit has major differences with the current site conditions. The major sections of the permit that need to be amendment are: closure plan, filling phases and grading, soil stockpile, run-on and run-off, landfill manpower and equipment, leachate pumping and storage, slope stability, operations plans, stormwater control, and financial assurance. Revised Title V application received on 10/3/01 must be reevaluated based on volume of overfill waste placed in Phase I.

Applicable Regs. By Facility Type:

Sanitary Landfill	CDD Landfill	Industrial Landfill	Transfer Station
9 VAC 20-80-250	9 VAC 20-80-260	9 VAC 20-80-270	9 VAC 20-80-340
9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-320
			9 VAC 20-80-540
Material Recovery	Eng. Rec. & Incin.	Surface Impound.	
9 VAC 20-80-360	9 VAC 20-80-370	9 VAC 20-80-380	
9 VAC 20-80-320	9 VAC 20-80-320	9 VAC 20-80-320	
9 VAC 20-80-540	9 VAC 20-80-530	9 VAC 20-80-540	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
I.	General Information			
A.	Part A Approval	Yes	9 VAC 20-80-500 C	Letter in Attachment I-1
B.	Approval Date:	06/02/93		
C.	1993 Subtitle D Amendment	Yes	9 VAC 20-80-250 A, 9 VAC 20-80-260 A, & 9 VAC 20-80-270 A	Part A Amendment 1 issued 06/02/1993.
D.	Part A Expansion	n/a		No expansion proposed

II.	General Site Plans			
A.	Existing Site Conditions	Yes	9 VAC 20-80-520 A 1 b	In Sheet 301
B.	Base Grade Plan	Yes	9 VAC 20-80-520 A 1 c	In Sheet 501
C.	Modification Plans	Yes	9 VAC 20-80-520 A 1 d	In Sheet 502
D.	Phasing Plan	Yes	9 VAC 20-80-520 A 1 f & 9 VAC 20-80-520 A 1 h	In Sheet 501-512
E.	Cross Sections	Yes	9 VAC 20-80-520 A 1 h	In Sheet 516-519
F.	Flood Plain	Yes	9 VAC 20-80-250 A 2, 9 VAC 20-80-260 A 1, & 9 VAC 20-80-270 A 1	
G.	Wetlands	Yes	9 VAC 20-80-250 A.4, 9 VAC 20-80-260 A.6, 9 VAC 20-80-270 A 5	
H.	General Facility Info	Yes	9 VAC 20-80-520 B 1 & 9 VAC 20-80-520 B 2	
I.	Site Access	Yes	9 VAC 20-80-250 B 1, 9 VAC 20-80-250 B 2, 9 VAC 20-80-260 B 1, 9 VAC 20-80-260 B 2, 9 VAC 20-80-270 B 1, 9 VAC 20-80-270 B 2, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
J.	Utilities	Yes	9 VAC 20-80-250 B 3, 9 VAC 20-80-250 B 5, 9 VAC 20-80-260 B 3, 9 VAC 20-80-260 B 5, 9 VAC 20-80-270 B 3, & 9 VAC 20-80-270 B 5	
K.	Aesthetics	Yes	9 VAC 20-80-250 B 4, 9 VAC 20-80-260 B 4, 9 VAC 20-80-270 B 4, & 9 VAC 20-80-520 A 1 j(11)	Aesthetics of multiple unseeded soil stockpiles and large denuded areas visible from adjacent public lands not addressed.
L.	Location of Cells	Yes	9 VAC 20-80-260 B 13, 9 VAC 20-80-260 B 15, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	
M.	Benchmarks	Yes	9 VAC 20-80-250 B 16, 9 VAC 20-80-270 B 9, 9 VAC 20-80-520 A 1 j(1)	
N.	Borrow & Stockpile Areas	Yes	9 VAC 20-80-250 C 2, 9 VAC 20-80-520 A 1 j(7), & 9 VAC 20-80-520 A 1 j(8)	Does not indicate the location, size, or long-term disposition of stockpiles. Site has significant cut/fill soil balance issues and no comprehensive soil management plan.
O.	Final Site Topography Plan	Yes	9 VAC 20-80-520 A 1 e	No plan for excess soil disposal.
P.	Monitoring Plan	Yes	9 VAC 20-80-520 A 1 g	

III.	Liners			
A.	Regulatory Requirements	Yes		
1.	Sanitary Landfills	Yes	9 VAC 20-80-250 B 9, 9 VAC 20-80-520 A 1 h, & 9 VAC 20-80-520 B 2	
2.	Other Landfills	n/a	9 VAC 20-80-260 B 14, 9 VAC 20-80-270 B 14, & 9 VAC 20-80-520 B 2	
B.	Design Plans and Report	Yes		
1.	Liner System	Yes	9 VAC 20-80-520 B 2	
a.	Composite	Yes		Subtitle D composite liner system as bottom liner. Has alternate composite liner only in Cell 6.
b.	Single Liner	n/a		
c.	None	n/a		
2.	Piggy Backing	n/a		

IV.	Liquids Management System			
A.	Leachate Collection & Control			
1.	Leachate Disposal	Yes	9 VAC 20-80-290 D	
a.	POTW	Yes	9 VAC 20-80-290 D 1	Pump and haul to Town of Stanley Sewage Treatment Plant
b.	Recirculation	n/a	9 VAC 20-80-290 D 3	not allowed
c.	Other	n/a	9 VAC 20-80-290 D	
2.	Leachate Management Plan	Yes	9 VAC 20-80-290	Need to reevaluate design of leachate pump station and storage facilities based on history of spills.
a.	Collection System	Yes	9 VAC 20-80-290 A 2	Redesign required for future landfill phases.
b.	Storage	Yes	9 VAC 20-80-290 A 3	Need to reevaluate design based on history of spills.
c.	Leachate Treatment	n/a	9 VAC 20-80-290 D 4	
B.	Run-on Control System	Yes	9 VAC 20-80-250 B 6 a, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-270 B 13, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	Generally adequate within disposal area except from oversteepened interior slopes. To be improved prior to reopening.
C.	Run-off Control System	Yes	9 VAC 20-80-250 B 6 b, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	No adequately detailed in permit. Unpermitted run-off on to adjacent properties from soil stockpile and Phase I area.

V.	Gas Management System			
A.	Management Plan	Yes	9 VAC 20-80-250 B 8, 9 VAC 20-80-260 B 9, & 9 VAC 20-80-280	In Attachment II-2
1.	General Requirements	Yes	9 VAC 20-80-280 A	
2.	Monitoring	Yes	9 VAC 20-80-280 B,C, & D	
3.	Control	n/a	9 VAC 20-80-280 E	Needs to be reevaluated with Title V permit.
4.	Contingency Plan	Yes	9 VAC 20-80-280 E 1 a	
5.	Clean Air Act/ VA Operating Permit	NO	9 VAC 20-80-280 E 3	Revised Title V application recvd on 10/3/01. Need to re-evaluate current design capacity trigger given the degree to which design was overfilled.
B.	Remediation Plan	n/a	9 VAC 20-80-280 E 1 c	
1.	Active	n/a		
2.	Passive	n/a		
3.	Combination	n/a		

VI. Groundwater Monitoring				
A.	Groundwater Monitoring Plan		9 VAC 20-80-250 B 11, 9 VAC 20-80-250 D 1, 9 VAC 20-80-250 D 3, 9 VAC 20-80-260 B 11, 9 VAC 20-80-260 D 3, 9 VAC 20-80-270 B 12, 9 VAC 20-80-270 D 3, 9 VAC 20-80-520 A 1 g, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
1.	Detection	Yes	9 VAC 20-80-250 D 5	
2.	Assessment	n/a	9 VAC 20-80-250 D 6	
3.	Phase I	n/a	9 VAC 20-80-260 D 5 & 9 VAC 20-80-270 D 5	
4.	Phase II	n/a	9 VAC 20-80-260 D 5 & 9 VAC 20-80-270 D 5	
5.	GPS	n/a	9 VAC 20-80-250 D 6 h	
6.	Corrective Action	n/a	9 VAC 20-80-310	
7.	Phase III	n/a	9 VAC 20-80-260 D 5 & 9 VAC 20-80-270 D 5	
8.	Selection of Remedy	n/a	9 VAC 20-80-310 B	
9.	Implementation of CA	n/a	9 VAC 20-80-310 C	
10.	GW Monitoring System	Yes	9 VAC 20-80-250 D 3, 9 VAC 20-80-260 D 3, & 9 VAC 20-80-270 D 3	
11.	Wetlands Legislation	Yes		
a.	Demonstration Approved	n/a		
b.	Quarterly Monitoring	Yes		

VII. Operations Manual				
A.	Service Information	Yes	9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, 9 VAC 20-80-520 C 1, 9 VAC 20-80-520 C 2 e, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
B.	Personnel	Yes	9 VAC 20-80-250 C 6, 9 VAC 20-80-520 C 2 k, 9 VAC 20-80-530 E, & 9 VAC 20-80-540 D	
C.	Site Access	Yes	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, & 9 VAC 20-80-270 C 1	
1.	Hours of Operation	Yes	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, 9 VAC 20-80-270 C 1, 9 VAC 20-80-520 C 2 e, 9 VAC 20-80-520 C 2 i, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

2.	Traffic Routing	Yes	9 VAC 20-80-250 C 13 d, 9 VAC 20-80-250 C 13 e, 9 VAC 20-80-270 C 10, 9 VAC 20-80-270 C 18, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
D.	Waste Handling	Yes	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
1.	Types of Wastes	Yes	9 VAC 20-80-10, 9 VAC 20-80-250 C 1, 9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, & 9 VAC 20-80-270 C 14	
2.	Litter Control	Yes	9 VAC 20-80-250 C 13 a & 9 VAC 20-80-260 C 2	Inadequate litter control measures
3.	Dust, Odor, Vectors	Yes	9 VAC 20-80-250 C 13 b, 9 VAC 20-80-260 C 3, & 9 VAC 20-80-270 C 2	Inadequate dust control measures.
4.	Open Burning	Yes	9 VAC 20-80-250 C 8, 9 VAC 20-80-260 C 6, 9 VAC 20-80-270 C 5	
5.	Unauthorized Waste Acceptance Plan	Yes	9 VAC 20-80-250 C 1 & 9 VAC 20-80-520 C 2 f	
E.	Filling Operation	Yes	9 VAC 20-80-250 C 13 f, 9 VAC 20-80-270 C 12 a, & 9 VAC 20-80-270 C 15	No adequate waste placement phasing provided for cell level detail
F.	Handling of Special Wastes	Yes	9 VAC 20-80-250 C 16 b, 9 VAC 20-80-250 C 16 o, 9 VAC 20-80-C 16 t, 9 VAC 20-80-250 C 16 x, & 9 VAC 20-80-270 C 11	Need to reevaluate the types of special wastes permitted.
G.	Equipment	Yes	9 VAC 20-80-250 C 6, 9 VAC 20-80-260 C 5, 9 VAC 20-80-270 C 4, 9 VAC 20-80-270 C 17, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	Inadequate quantity and types of equipment specified, need increased earth-moving capability. Phase I significantly overfilled.
H.	Compaction and Cover	Yes	9 VAC 20-80-250 C 2, 9 VAC 20-80-260 C 11, & 9 VAC 20-80-270 C 11	
1.	ADC Approvals	Yes	9 VAC 20-80-250 C 2 c	Need to reevaluate the multiple alternate daily covers previously approved
I.	Safety	Yes	9 VAC 20-80-250 C 5, 9 VAC 20-80-260 C 4, 9 VAC 20-80-270 C 3, & 9 VAC 20-80-520 C 2 h	
J.	Inspection	Yes	9 VAC 20-80-250 C 1, 9 VAC 20-80-270 C 14, & 9 VAC 20-80-520 C 2 f	
K.	Control & Monitoring of Liquids & Gases	Yes	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	Leachate flow and weather monitoring not provided. Leachate storage at site has compliance problems, and this section in the permit does not address the needs of the current facility pertaining to tank volume and pump reliability.
L.	Records	Yes	9 VAC 20-80-250 C 18, 9 VAC 20-80-260 C 9, 9 VAC 20-80-270 C 7, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

VIII. Closure Plan				
A.	General	Yes	9 VAC 20-80-250 E, 9 VAC 20-80-260 E, 9 VAC 20-80-270 E, 9 VAC 20-80-320 C, 9 VAC 20-80-330 E, 9 VAC 20-80-340 E, 9 VAC 20-80-360 E, 9 VAC 20-80-370 E, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E, 9 VAC 20-80-470 E, 9 VAC 20-80-520 A 1 e, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, 9 VAC 20-80-540 E, & 9 VAC 20-80-560	Permit does not address actual site conditions.
1.	Units & Status	Yes	9 VAC 20-80-250 E 4, 9 VAC 20-80-260 E 3, & 9 VAC 20-80-270 E 3	
2.	Capped Area Approvals	n/a	9 VAC 20-80-250 E 5 b, & 9 VAC 20-80-260 E 7	
B.	Time-frames for Closure	Yes	9 VAC 20-80-250 E 3, 9 VAC 20-80-260 E 3, 9 VAC 20-80-270 E 3, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, & 9 VAC 20-80-540 E	
C.	Closure of Disposal Units	Yes	9 VAC 20-80-250 E 1, 9 VAC 20-80-250 E 5, 9 VAC 20-80-260 E 1, 9 VAC 20-80-270 E 1, 9 VAC 20-80-270 E 5, & 9 VAC 20-80-320 C	Does not provide adequate closure phasing in plan for the current facility closure issues. Phase I significantly overfilled.
1.	Surface Impoundments	Yes	9 VAC 20-80-380 B	
D.	Cover Design	Yes	9 VAC 20-80-250 E 1 b(1), 9 VAC 20-80-260 E 1 b(1), & 9 VAC 20-80-270 E 1 b(1)	
E.	E&S Control Plan	Yes	9 VAC 20-80-250 E 1 b(2), 9 VAC 20-80-260 E 1 b(2), & 9 VAC 20-80-270 E 1 b(2)	Inadequate Erosion & Sediment Control Plan. Virginia Pollutant Discharge Elimination System permit for stormwater basin expired July 2004.
F.	Schedule for Closure	Yes	9 VAC 20-80-250 E 3 a(4), 9 VAC 20-80-260 E 2 a(2), 9 VAC 20-80-270 E 2 a(2), 9 VAC 20-80-330 E 3, 9 VAC 20-80-340 E 3, 9 VAC 20-80-360 E 3, 9 VAC 20-80-370 E 3, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E 3, & 9 VAC 20-80-470 E 3	
G.	Notification	Yes	9 VAC 20-80-250 E 5 d, 9 VAC 20-80-260 E 5, & 9 VAC 20-80-270 E 6	
H.	Inspection	Yes	9 VAC 20-80-250 E 6&7, 9 VAC 20-80-260 E 5 & 6, 9 VAC 20-80-270 E 5 & 6	

IX.	Post Closure Plan			
A.	General	Yes	9 VAC 20-80-250 F, 9 VAC 20-80-260 F, & 9 VAC 20-80-270 F	Generally adequate.
1.	Post Closure Period Required	Yes	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	Specified 30-year post-closure period.
2.	Years Remaining	Yes	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	No longer accurate based on earlier exceedance of fill rate.
B.	Monitoring Plan	Yes	9 VAC 20-80-250 F 4 a, 9 VAC 20-80-260 F 3 a, & 9 VAC 20-80-270 F 3 a	Adequate for current disposal area.
C.	Post Closure Uses	Yes	9 VAC 20-80-250 F 4 c, 9 VAC 20-80-260 F 3 c, & 9 VAC 20-80-270 F 3 c	

X.	Financial Assurance		9 VAC 20-70-10	
A.	Cost Est. Approval	Yes	9 VAC 20-70-111 & 112	Cost estimate for 2005 not approved. Financial Assurance for closure significantly inadequate based on cost to correct all current site deficiencies and overfill issues.
B.	Mechanism	Yes	9 VAC 20-70-140	Financial assurance was incorrectly provided by the operator (NWS) rather the permittee (Page County). Pursuant to the Interim Order, Page County submitted financial assurance. The surety bond submitted by NWS was released on the same day Page County met its financial assurance demonstration obligation.



This checklist indicates information included in the permit on the date the checklist was completed. Any approvals, demonstrations or plans the facility may have previously submitted to the Department not included in the permit were not included in this review. Facilities that lack current, facility specific permit modules remain subject to their existing permits, any approved plans, and the standards in the applicable regulations.

**10-Year Permit Review, VA Code 10.1 - 1408.1.E.
Permit Review Checklist for Landfills**

Reviewed By:	<u>Rebecca Dietrich</u>	Geologist:	<u>Mason Pritchett</u>
Date Reviewed:	<u>3/24/2005</u>		
Facility Type:	<u>Sanitary Landfill</u>		
Facility Name:	<u>Prince Edward County SLF</u>		
Permit No.:	<u>584</u>		
Permit Issued Date:	<u>7/16/1995</u>		
Amendment 1 Date:	<u>07/30/98 (Minor)</u>		
Amendment 2 Date:	<u>10/10/99 (Minor)</u>		
Amendment 3 Date:	<u>06/15/04 (Major)</u>		
Amendment 4 Date:	<u>12/16/04 (Minor)</u>		
HB1205 Ranking:	<u>N/A</u>		
Title V:	<u>N/A</u>		

Findings/Deficiencies:

1. Part A Approval (9 VAC 20-80-500.C) - The Part A approval date is listed in the Design Report, but the approval letter and Near Vicinity Map are not included.
2. Inspection (9 VAC 20-80-250.E.6 & 7) - The Closure Plan does not include a requirement for the Department to inspect all solid waste management units at the time of closure to confirm that the closing is complete and adequate. Also, the Closure Plan does not list the criteria for determining commencement of the post-closure period.

Applicable Regs. By Facility Type:	Sanitary Landfill 9 VAC 20-80-250 9 VAC 20-80-520	CDD Landfill 9 VAC 20-80-260 9 VAC 20-80-520	Industrial Landfill 9 VAC 20-80-270 9 VAC 20-80-520	Transfer Station 9 VAC 20-80-340 9 VAC 20-80-320 9 VAC 20-80-540
	Material Recovery 9 VAC 20-80-360 9 VAC 20-80-320 9 VAC 20-80-540	Eng. Rec. & Incin. 9 VAC 20-80-370 9 VAC 20-80-320 9 VAC 20-80-530	Surface Impound. 9 VAC 20-80-380 9 VAC 20-80-320 9 VAC 20-80-540	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
I.	General Information			
A.	Part A Approval	N	9 VAC 20-80-500 C	The Part A approval date is listed in the Design Report, but the approval letter and Near Vicinity Map are not included.
B.	Approval Date:	9/14/1992		
C.	1993 Subtitle D Amendment	Y	9 VAC 20-80-250 A, 9 VAC 20-80-260 A, & 9 VAC 20-80-270 A	
D.	Part A Expansion	N		Not Applicable - The facility has not applied for an increase in disposal area or facility boundary.

II.	General Site Plans			
A.	Existing Site Conditions	Y	9 VAC 20-80-520 A 1 b	
B.	Base Grade Plan	Y	9 VAC 20-80-520 A 1 c	
C.	Modification Plans	Y	9 VAC 20-80-520 A 1 d	
D.	Phasing Plan	Y	9 VAC 20-80-520 A 1 f & 9 VAC 20-80-520 A 1 h	
E.	Cross Sections	Y	9 VAC 20-80-520 A 1 h	
F.	Flood Plain	N	9 VAC 20-80-250 A 2, 9 VAC 20-80-260 A 1, & 9 VAC 20-80-270 A 1	No portion of the disposal facility is contained within the flood plain.
G.	Wetlands	Y	9 VAC 20-80-250 A.4, 9 VAC 20-80-260 A.6, 9 VAC 20-80-270 A 5	
H.	General Facility Info	Y	9 VAC 20-80-520 B 1 & 9 VAC 20-80-520 B 2	
I.	Site Access	Y	9 VAC 20-80-250 B 1, 9 VAC 20-80-250 B 2, 9 VAC 20-80-260 B 1, 9 VAC 20-80-260 B 2, 9 VAC 20-80-270 B 1, 9 VAC 20-80-270 B 2, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
J.	Utilities	Y	9 VAC 20-80-250 B 3, 9 VAC 20-80-250 B 5, 9 VAC 20-80-260 B 3, 9 VAC 20-80-260 B 5, 9 VAC 20-80-270 B 3, & 9 VAC 20-80-270 B 5	
K.	Aesthetics	Y	9 VAC 20-80-250 B 4, 9 VAC 20-80-260 B 4, 9 VAC 20-80-270 B 4, & 9 VAC 20-80-520 A 1 j(11)	
L.	Location of Cells	Y	9 VAC 20-80-260 B 13, 9 VAC 20-80-260 B 15, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

M.	Benchmarks	Y	9 VAC 20-80-250 B 16, 9 VAC 20-80-270 B 9, 9 VAC 20-80-520 A 1 j(1)	
N.	Borrow & Stockpile Areas	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-520 A 1 j(7), & 9 VAC 20-80-520 A 1 j(8)	
O.	Final Site Topography Plan	Y	9 VAC 20-80-520 A 1 e	
P.	Monitoring Plan	Y	9 VAC 20-80-520 A 1 g	

III. Liners				
A.	Regulatory Requirements			
1.	Sanitary Landfills	Y	9 VAC 20-80-250 B 9, 9 VAC 20-80-520 A 1 h, & 9 VAC 20-80-520 B 2	
2.	Other Landfills	N	9 VAC 20-80-260 B 14, 9 VAC 20-80-270 B 14, & 9 VAC 20-80-520 B 2	Not applicable - This facility is a sanitary landfill only.
B.	Design Plans and Report			
1.	Liner System	Y	9 VAC 20-80-520 B 2	
a.	Composite	Y		
b.	Single Liner	N		Not applicable - Only a Subtitle D composite liner system is proposed
c.	None	N		Not applicable - Only a Subtitle D composite liner system is proposed
2.	Piggy Backing	N		Not applicable - Piggy-backing is not proposed for this facility.

IV. Liquids Management System				
A.	Leachate Collection & Control			
1.	Leachate Disposal	Y	9 VAC 20-80-290 D	
a.	POTW	Y	9 VAC 20-80-290 D 1	Leachate is currently pumped and hauled to the Town of Farmville Sewage Treatment Plant (STP).
b.	Recirculation	Y	9 VAC 20-80-290 D 3	
c.	Other	N	9 VAC 20-80-290 D	Not applicable - No additional options are provided in the permit.
2.	Leachate Management Plan	Y	9 VAC 20-80-290	
a.	Collection System	Y	9 VAC 20-80-290 A 2	
b.	Storage	Y	9 VAC 20-80-290 A 3	
c.	Leachate Treatment	N	9 VAC 20-80-290 D 4	Not applicable - Currently, the facility does not treat leachate prior to pump and haul to a STP.
B.	Run-on Control System	Y	9 VAC 20-80-250 B 6 a, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-270 B 13, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

C.	Run-off Control System	Y	9 VAC 20-80-250 B 6 b, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	
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V. Gas Management System				
A.	Management Plan	Y	9 VAC 20-80-250 B 8, 9 VAC 20-80-260 B 9, & 9 VAC 20-80-280	
1.	General Requirements	Y	9 VAC 20-80-280 A	
2.	Monitoring	Y	9 VAC 20-80-280 B,C, & D	
3.	Control	Y	9 VAC 20-80-280 E	
4.	Contingency Plan	Y	9 VAC 20-80-280 E 1 a	
5.	Clean Air Act/ VA Operating Permit	N	9 VAC 20-80-280 E 3	Not applicable - The facility's emissions do not require control of (Non methane organic compounds) NMOC's.
B.	Remediation Plan	Y	9 VAC 20-80-280 E 1 c	
1.	Active	N		Not applicable - An active gas extraction system is currently not proposed.
2.	Passive	Y		
3.	Combination	N		Not applicable - Only a passive vent system has been proposed.

VI. Groundwater Monitoring				
A.	Groundwater Monitoring Plan	Y	9 VAC 20-80-250 B 11, 9 VAC 20-80-300 A 1, 9 VAC 20-80-300 A 3, 9 VAC 20-80-260 B 11, 9 VAC 20-80-300 A 3, 9 VAC 20-80-270 B 12, 9 VAC 20-80-300 A 3, 9 VAC 20-80-520 A 1 g, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
1.	Detection	Y	9 VAC 20-80-300 B 2	
2.	Assessment	Y	9 VAC 20-80-300 B 3	
3.	Phase I	N	9 VAC 20-80-300 C 3	Not applicable - Applicable only for Construction Demolition and Debris (CDD), Industrial, and Non-Subtitle D landfills.
4.	Phase II	N	9 VAC 20-80-300 C 4	Not applicable - Applicable only for CDD, Industrial, and Non-Subtitle D landfills.
5.	GPS	Y	9 VAC 20-80-300 B 3 h	
6.	Corrective Action	Y	9 VAC 20-80-310	Currently conducting Nature & Extent Study (NES)
7.	Phase III	N	No longer applicable	

8.	Selection of Remedy	N	9 VAC 20-80-310 B	Currently conducting NES
9.	Implementation of CA	N	9 VAC 20-80-310 C	Currently conducting NES
10.	GW Monitoring System	Y	9 VAC 20-80-300 A 3	
11.	Wetlands Legislation	Y		
a.	Demonstration Approved	Y		
b.	Quarterly Monitoring	Y		

VII.	Operations Manual			
A.	Service Information	Y	9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, 9 VAC 20-80-520 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
B.	Personnel	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-520 C 2 k, 9 VAC 20-80-530 E, & 9 VAC 20-80-540 D	
C.	Site Access	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, & 9 VAC 20-80-270 C 1	
1.	Hours of Operation	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, 9 VAC 20-80-270 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-520 C 2 i, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
2.	Traffic Routing	Y	9 VAC 20-80-250 C 13 d, 9 VAC 20-80-250 C 13 e, 9 VAC 20-80-270 C 10, 9 VAC 20-80-270 C 18, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
D.	Waste Handling	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
1.	Types of Wastes	Y	9 VAC 20-80-10, 9 VAC 20-80-250 C 1, 9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, & 9 VAC 20-80-270 C 14	
2.	Litter Control	Y	9 VAC 20-80-250 C 13 a & 9 VAC 20-80-260 C 2	

3.	Dust, Odor, Vectors	Y	9 VAC 20-80-250 C 13 b, 9 VAC 20-80-260 C 3, & 9 VAC 20-80-270 C 2	
4.	Open Burning	Y	9 VAC 20-80-250 C 8, 9 VAC 20-80-260 C 6, 9 VAC 20-80-270 C 5	
5.	Unauthorized Waste Acceptance Plan	Y	9 VAC 20-80-250 C 1 & 9 VAC 20-80-520 C 2 f	
E.	Filling Operation	Y	9 VAC 20-80-250 C 13 f, 9 VAC 20-80-270 C 12 a, & 9 VAC 20-80-270 C 15	
F.	Handling of Special Wastes	Y	9 VAC 20-80-250 C 16 b, 9 VAC 20-80-250 C 16 o, 9 VAC 20-80-C 16 t, 9 VAC 20-80-250 C 16 x, & 9 VAC 20-80-270 C 11	
G.	Equipment	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-260 C 5, 9 VAC 20-80-270 C 4, 9 VAC 20-80-270 C 17, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
H.	Compaction and Cover	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-260 C 11, & 9 VAC 20-80-270 C 11	
I.	ADC Approvals	Y	9 VAC 20-80-250 C 2 c	
I.	Safety	Y	9 VAC 20-80-250 C 5, 9 VAC 20-80-260 C 4, 9 VAC 20-80-270 C 3, & 9 VAC 20-80-520 C 2 h	
J.	Inspection	Y	9 VAC 20-80-250 C 1, 9 VAC 20-80-270 C 14, & 9 VAC 20-80-520 C 2 f	
K.	Control & Monitoring of Liquids & Gases	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
L.	Records	Y	9 VAC 20-80-250 C 18, 9 VAC 20-80-260 C 9, 9 VAC 20-80-270 C 7, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

VIII.	Closure Plan			
A.	General	Y	9 VAC 20-80-250 E, 9 VAC 20-80-260 E, 9 VAC 20-80-270 E, 9 VAC 20-80-320 C, 9 VAC 20-80-330 E, 9 VAC 20-80-340 E, 9 VAC 20-80-360 E, 9 VAC 20-80-370 E, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E, 9 VAC 20-80-470 E, 9 VAC 20-80-520 A 1 e, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, 9 VAC 20-80-540 E, & 9 VAC 20-80-560	
1.	Units & Status	Y	9 VAC 20-80-250 E 4, 9 VAC 20-80-260 E 3, & 9 VAC 20-80-270 E 3	
2.	Capped Area Approvals	Y	9 VAC 20-80-250 E 5 b, & 9 VAC 20-80-260 E 7	
B.	Time-frames for Closure	Y	9 VAC 20-80-250 E 3, 9 VAC 20-80-260 E 3, 9 VAC 20-80-270 E 3, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, & 9 VAC 20-80-540 E	
C.	Closure of Disposal Units	Y	9 VAC 20-80-250 E 1, 9 VAC 20-80-250 E 5, 9 VAC 20-80-260 E 1, 9 VAC 20-80-270 E 1, 9 VAC 20-80-270 E 5, & 9 VAC 20-80-320 C	
1.	Surface Impoundments	Y	9 VAC 20-80-380 B	
D.	Cover Design	Y	9 VAC 20-80-250 E 1 b(1), 9 VAC 20-80-260 E 1 b(1), & 9 VAC 20-80-270 E 1 b(1)	
E.	E&S Control Plan	Y	9 VAC 20-80-250 E 1 b(2), 9 VAC 20-80-260 E 1 b(2), & 9 VAC 20-80-270 E 1 b(2)	
F.	Schedule for Closure	Y	9 VAC 20-80-250 E 3 a(4), 9 VAC 20-80-260 E 2 a(2), 9 VAC 20-80-270 E 2 a(2), 9 VAC 20-80-330 E 3, 9 VAC 20-80-340 E 3, 9 VAC 20-80-360 E 3, 9 VAC 20-80-370 E 3, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E 3, & 9 VAC 20-80-470 E 3	
G.	Notification	Y	9 VAC 20-80-250 E 5 d, 9 VAC 20-80-260 E 5, & 9 VAC 20-80-270 E 6	

H.	Inspection	N	9 VAC 20-80-250 E 6&7, 9 VAC 20-80-260 E 5 & 6, 9 VAC 20-80-270 E 5 & 6	The Closure Plan does include the requirement that the Department shall inspect all solid waste management units at the time of closure to confirm that the closing is complete and adequate.
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IX.	Post Closure Plan			
A.	General	Y	9 VAC 20-80-250 F, 9 VAC 20-80-260 F, & 9 VAC 20-80-270 F	
1.	Post Closure Period Required	Y	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
2.	Years Remaining	Y	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
B.	Monitoring Plan	Y	9 VAC 20-80-250 F 4 a, 9 VAC 20-80-260 F 3 a, & 9 VAC 20-80-270 F 3 a	
C.	Post Closure Uses	Y	9 VAC 20-80-250 F 4 c, 9 VAC 20-80-260 F 3 c, & 9 VAC 20-80-270 F 3 c	

X.	Financial Assurance		9 VAC 20-70-10	
A.	Cost Est. Approval	Y	9 VAC 20-70-111 & 112	
B.	Mechanism	N	9 VAC 20-70-140	



This checklist indicates information included in the permit on the date the checklist was completed. Any approvals, demonstrations or plans the facility may have previously submitted to the Department not included in the permit were not included in this review. Facilities that lack current, facility specific permit modules remain subject to their existing permits, any approved plans, and the standards in the applicable regulations.

**10-Year Permit Review, VA Code 10.1 - 1408.1.E.
Permit Review Checklist for Landfills**

Reviewed By: **M. A. Karim** Geologist: **Dean Starook**
 Date Reviewed: 3/15/2005
 Facility Type: Sanitary Landfill
 Facility Name: Shoosmith Sanitary Landfill
 Permit No.: SWP 587
 Permit Issued Date: 9/29/1976 Initial Issuance as PN 211
 Amendment 1 Date: 9/22/1994 (Major) as PN 211
 Amendment 2 Date: 5/27/1995 (Major) as PN 211
 Amendment 3 Date: 12/6/1995 (Minor changed to PN 587)
 Amendment 4 Date: 5/20/1999 (Major)
 Amendment 5 Date: 3/1/2000 (Minor)
 Amendment 6 Date: 2/21/2003 (Minor)
 Temp Authorization: 11/16/2004 TA
 Amendment 7 Date: 2/18/2005 (Major)
 HB1205 Ranking: N/A
 Title V: **Reg. No. 50752**

Findings/Deficiencies:

I. No description in the Design Report whether the facility impacted and/or will impact any wetland.

Applicable Regs. By Facility Type:	<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Sanitary Landfill</td> <td style="text-align: center;">CDD Landfill</td> <td style="text-align: center;">Industrial Landfill</td> <td style="text-align: center;">Transfer Station</td> </tr> <tr> <td>9 VAC 20-80-250</td> <td>9 VAC 20-80-260</td> <td>9 VAC 20-80-270</td> <td>9 VAC 20-80-340</td> </tr> <tr> <td>9 VAC 20-80-520</td> <td>9 VAC 20-80-520</td> <td>9 VAC 20-80-520</td> <td>9 VAC 20-80-320</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>9 VAC 20-80-540</td> </tr> <tr> <td style="text-align: center;">Material Recovery</td> <td style="text-align: center;">Eng. Rec. & Incin.</td> <td style="text-align: center;">Surface Impound.</td> <td> </td> </tr> <tr> <td>9 VAC 20-80-360</td> <td>9 VAC 20-80-370</td> <td>9 VAC 20-80-380</td> <td> </td> </tr> <tr> <td>9 VAC 20-80-320</td> <td>9 VAC 20-80-320</td> <td>9 VAC 20-80-320</td> <td> </td> </tr> <tr> <td>9 VAC 20-80-540</td> <td>9 VAC 20-80-530</td> <td>9 VAC 20-80-540</td> <td> </td> </tr> </table>	Sanitary Landfill	CDD Landfill	Industrial Landfill	Transfer Station	9 VAC 20-80-250	9 VAC 20-80-260	9 VAC 20-80-270	9 VAC 20-80-340	9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-320				9 VAC 20-80-540	Material Recovery	Eng. Rec. & Incin.	Surface Impound.		9 VAC 20-80-360	9 VAC 20-80-370	9 VAC 20-80-380		9 VAC 20-80-320	9 VAC 20-80-320	9 VAC 20-80-320		9 VAC 20-80-540	9 VAC 20-80-530	9 VAC 20-80-540	
Sanitary Landfill	CDD Landfill	Industrial Landfill	Transfer Station																														
9 VAC 20-80-250	9 VAC 20-80-260	9 VAC 20-80-270	9 VAC 20-80-340																														
9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-320																														
			9 VAC 20-80-540																														
Material Recovery	Eng. Rec. & Incin.	Surface Impound.																															
9 VAC 20-80-360	9 VAC 20-80-370	9 VAC 20-80-380																															
9 VAC 20-80-320	9 VAC 20-80-320	9 VAC 20-80-320																															
9 VAC 20-80-540	9 VAC 20-80-530	9 VAC 20-80-540																															

	Item	Provided (Y/N)	Regulatory Requirement	Comments
I.	General Information			
A.	Part A Approval	Y	9 VAC 20-80-500 C	Included in Permit Attachment III-3.
B.	Approval Date:	2/25/2004		
C.	1993 Subtitle D Amendment	N/A	9 VAC 20-80-250 A, 9 VAC 20-80-260 A, & 9 VAC 20-80-270 A	
D.	Part A Expansion	Y		Part A amendment on 2/25/2004 reduces permitted area by 5.7 acres in two areas and increases disposal area by 5.7 acres in another area.

II.	General Site Plans			
A.	Existing Site Conditions	Y	9 VAC 20-80-520 A 1 b	Section A.1, Page 1 of Permit Attachment III-1 and Drawing No. 1 of Permit Attachment III-2.
B.	Base Grade Plan	Y	9 VAC 20-80-520 A 1 c	Section A.2, Page 2 of Permit Attachment III-1 and Drawing No. 3 of Permit Attachment III-2.
C.	Modification Plans	Y	9 VAC 20-80-520 A 1 d	Section A.3, Page 2 of Permit Attachment III-1 and Drawing No. 4 of Permit Attachment III-2.
D.	Phasing Plan	Y	9 VAC 20-80-520 A 1 f & 9 VAC 20-80-520 A 1 h	Section A.5, Page 2 of Permit Attachment III-1 and Drawing Nos. 6A, 6B, and 6C of Permit Attachment III-2.
E.	Cross Sections	Y	9 VAC 20-80-520 A 1 h	Section A.6, Page 2 of Permit Attachment III-1 and Drawing Nos. 7A - 7D and 8A - 8D of Permit Attachment III-2.
F.	Flood Plain	Y	9 VAC 20-80-250 A 2, 9 VAC 20-80-260 A 1, & 9 VAC 20-80-270 A 1	Section A.7, Page 2 of Permit Attachment III-1 and Drawing No. 1 of Permit Attachment III-2.
G.	Wetlands	N	9 VAC 20-80-250 A.4, 9 VAC 20-80-260 A.6, 9 VAC 20-80-270 A 5	No description in the Design Report whether the facility impacted and/or will impact any wetland.
H.	General Facility Info	Y	9 VAC 20-80-520 B 1 & 9 VAC 20-80-520 B 2	Section B, Page 4 of Permit Attachment III-1.
I.	Site Access	Y	9 VAC 20-80-250 B 1, 9 VAC 20-80-250 B 2, 9 VAC 20-80-260 B 1, 9 VAC 20-80-260 B 2, 9 VAC 20-80-270 B 1, 9 VAC 20-80-270 B 2, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
J.	Utilities	Y	9 VAC 20-80-250 B 3, 9 VAC 20-80-250 B 5, 9 VAC 20-80-260 B 3, 9 VAC 20-80-260 B 5, 9 VAC 20-80-270 B 3, & 9 VAC 20-80-270 B 5	
K.	Aesthetics	Y	9 VAC 20-80-250 B 4, 9 VAC 20-80-260 B 4, 9 VAC 20-80-270 B 4, & 9 VAC 20-80-520 A 1 j(11)	
L.	Location of Cells	Y	9 VAC 20-80-260 B 13, 9 VAC 20-80-260 B 15, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
M.	Benchmarks	Y	9 VAC 20-80-250 B 16, 9 VAC 20-80-270 B 9, 9 VAC 20-80-520 A 1 j(1)	
N.	Borrow & Stockpile Areas	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-520 A 1 j(7), & 9 VAC 20-80-520 A 1 j(8)	
O.	Final Site Topography Plan	Y	9 VAC 20-80-520 A 1 e	Section A.4, Page 2 of Permit Attachment III-1 and Drawing No. 5 of Permit Attachment III-2.
P.	Monitoring Plan	Y	9 VAC 20-80-520 A 1 g	

III. Liners				
A.	Regulatory Requirements			
1.	Sanitary Landfills	Y	9 VAC 20-80-250 B 9, 9 VAC 20-80-520 A 1 h, & 9 VAC 20-80-520 B 2	
2.	Other Landfills	N/A	9 VAC 20-80-260 B 14, 9 VAC 20-80-270 B 14, & 9 VAC 20-80-520 B 2	
B.	Design Plans and Report	Y		Permit Attachments III-1 (Report) and III-2 (Plans).
1.	Liner System	Y	9 VAC 20-80-520 B 2	
a.	Composite	Y	Has option of using either Subtile D or Approved alternate liner for Cells 22 to 25.	Subtitle D liner. Top to bottom: 6" protective cover; 12"-drainage layer with $k \geq 1 \times 10^{-3}$ cm/sec.; Geocomposite drainage net, 60-mil HDPE; and 24"-clay liner with $k \leq 1 \times 10^{-7}$ cm/sec. Alternate liner: Top to bottom: 6" protective cover; 12"-drainage layer with $k \geq 1 \times 10^{-3}$ cm/sec.; Geocomposite drainage net, 60-mil HDPE; GCL, 12"-compacted clay with unspecified permeability.
b.	Single Liner	N/A		
c.	None	N/A		
2.	Piggy Backing	N/A		

IV. Liquids Management System				
A.	Leachate Collection & Control			
1.	Leachate Disposal		9 VAC 20-80-290 D	
a.	POTW	Y	9 VAC 20-80-290 D 1	Leachate collected in the storage tanks will be pumped from the tank into leachate tanker trucks for recirculation into the landfill mass or directly discharged to Chesterfield County Sanitary Sewer.
b.	Recirculation	Y	9 VAC 20-80-290 D 3	75% of leachate generated may be recirculated.
c.	Other	N/A	9 VAC 20-80-290 D	
2.	Leachate Management Plan	Y	9 VAC 20-80-290	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
a.	Collection System	Y	9 VAC 20-80-290 A 2	
b.	Storage	Y	9 VAC 20-80-290 A 3	
c.	Leachate Treatment	Y	9 VAC 20-80-290 D 4	No leachate treatment will be done on-site. Either recirculated or directly discharged to Chesterfield County Sanitary Sewer.
B.	Run-on Control System	Y	9 VAC 20-80-250 B 6 a, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-270 B 13, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	
C.	Run-off Control System	Y	9 VAC 20-80-250 B 6 b, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 I, & 9 VAC 20-80-520 A 1 j	

V. Gas Management System				
A.	Management Plan	Y	9 VAC 20-80-250 B 8, 9 VAC 20-80-260 B 9, & 9 VAC 20-80-280	Permit Attachment III-4.
1.	General Requirements	Y	9 VAC 20-80-280 A	
2.	Monitoring	Y	9 VAC 20-80-280 B,C, & D	
3.	Control	Y	9 VAC 20-80-280 E	
4.	Contingency Plan	Y	9 VAC 20-80-280 E 1 a	
5.	Clean Air Act/ VA Operating Permit	Y	9 VAC 20-80-280 E 3	Total capacity is more than 2.5 million Megagrams. Therefore, the facility is subject to Subtitle WWW. Air Permit Info. Reg ID: 50752; SIC: 4953; NAICS = 562212.
B.	Remediation Plan	Y	9 VAC 20-80-280 E 1 c	
1.	Active	Y		Active gas extraction system is being installed as the development of waste cells progress.
2.	Passive	N/A		
3.	Combination	N/A		

VI. Groundwater Monitoring				

	Item	Provided (Y/N)	Regulatory Requirement	Comments
A.	Groundwater Monitoring Plan	Y	9 VAC 20-80-250 B 11, 9 VAC 20-80-300 A 1, 9 VAC 20-80-300 A 3, 9 VAC 20-80-260 B 11, 9 VAC 20-80-300 A 3, 9 VAC 20-80-270 B 12, 9 VAC 20-80-300 A 3, 9 VAC 20-80-520 A 1 g, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
1.	Detection	Y	9 VAC 20-80-300 B 2	
2.	Assessment	Y	9 VAC 20-80-300 B 3	
3.	Phase I	N/A	9 VAC 20-80-300 C 3	
4.	Phase II	N/A	9 VAC 20-80-300 C 4	
5.	GPS	Y	9 VAC 20-80-300 B 3 h	
6.	Corrective Action	N/A	9 VAC 20-80-310	
7.	Phase III	N/A	No longer applicable	
8.	Selection of Remedy	N/A	9 VAC 20-80-310 B	
9.	Implementation of CA	N/A	9 VAC 20-80-310 C	
10.	GW Monitoring System	Y	9 VAC 20-80-300 A 3	
11.	Wetlands Legislation	N/A		
a.	Demonstration Approved	N/A		
b.	Quarterly Monitoring	N	9 VAC 20-80-300 B 3	The facility is subject to quarterly monitoring and conducts quarterly monitoring, but Sections 5.1.4 and 4.2.4 of Groundwater Monitoring Plan (GWMP) say semi-annual sampling. Permit should be amended to reflect actual monitoring requirements.

VII.	Operations Manual			
A.	Service Information	Y	9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, 9 VAC 20-80-520 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	Upon operation of Cell 22, no out of state waste may be received without County approval.
B.	Personnel	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-520 C 2 k, 9 VAC 20-80-530 E, & 9 VAC 20-80-540 D	Table 1, Page 12 of Operations Manual (Permit Attachment II-1).
C.	Site Access	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, & 9 VAC 20-80-270 C 1	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
1.	Hours of Operation	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, 9 VAC 20-80-270 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-520 C 2 i, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	24 hours a day, 7 days a week.
2.	Traffic Routing	Y	9 VAC 20-80-250 C 13 d, 9 VAC 20-80-250 C 13 e, 9 VAC 20-80-270 C 10, 9 VAC 20-80-270 C 18, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
D.	Waste Handling	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
1.	Types of Wastes	Y	9 VAC 20-80-10, 9 VAC 20-80-250 C 1, 9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, & 9 VAC 20-80-270 C 14	
2.	Litter Control	Y	9 VAC 20-80-250 C 13 a & 9 VAC 20-80-260 C 2	
3.	Dust, Odor, Vectors Control	Y	9 VAC 20-80-250 C 13 b, 9 VAC 20-80-260 C 3, & 9 VAC 20-80-270 C 2	
4.	Open Burning	Y	9 VAC 20-80-250 C 8, 9 VAC 20-80-260 C 6, 9 VAC 20-80-270 C 5	
5.	Unauthorized Waste Acceptance Plan	Y	9 VAC 20-80-250 C 1 & 9 VAC 20-80-520 C 2 f	
E.	Filling Operation	Y	9 VAC 20-80-250 C 13 f, 9 VAC 20-80-270 C 12 a, & 9 VAC 20-80-270 C 15	
F.	Handling of Special Wastes	Y	9 VAC 20-80-250 C 16 b, 9 VAC 20-80-250 C 16 o, 9 VAC 20-80-250 C 16 t, 9 VAC 20-80-250 C 16 x, & 9 VAC 20-80-270 C 11	
G.	Equipment	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-260 C 5, 9 VAC 20-80-270 C 4, 9 VAC 20-80-270 C 17, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	Table 1, Page 12 of Operations Manual (Permit Attachment II-1).

	Item	Provided (Y/N)	Regulatory Requirement	Comments
H.	Compaction and Cover	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-260 C 11 40, & 9 VAC 20-80-270 C 11	
I.	ADC Approvals	Y	9 VAC 20-80-250 C 2 c	Section D.3, Page 14 of Permit Attachment II-1. Synthetic and tarps have been approved as alternate daily cover (ADC).
I.	Safety	Y	9 VAC 20-80-250 C 5, 9 VAC 20-80-260 C 4, 9 VAC 20-80-270 C 3, & 9 VAC 20-80-520 C 2 h	
J.	Inspection	Y	9 VAC 20-80-250 C 1, 9 VAC 20-80-270 C 14, & 9 VAC 20-80-520 C 2 f	
K.	Control & Monitoring of Liquids & Gases	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
L.	Records	Y	9 VAC 20-80-250 C 18, 9 VAC 20-80-260 C 9, 9 VAC 20-80-270 C 7, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
VIII.	Closure Plan			
A.	General	Y	9 VAC 20-80-250 E 9 VAC 20-80-260 E, 9 VAC 20-80-270 E, 9 VAC 20-80-320 C, 9 VAC 20-80-330 E, 9 VAC 20-80-340 E, 9 VAC 20-80-360 E, 9 VAC 20-80-370 E, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E, 9 VAC 20-80-470 E, 9 VAC 20-80-520 A 1 e, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, 9 VAC 20-80-540 E, & 9 VAC 20-80-560	
1.	Units & Status	Y	9 VAC 20-80-250 E 4, 9 VAC 20-80-260 E 3, & 9 VAC 20-80-270 E 3	
2.	Capped Area Approvals	N/A	9 VAC 20-80-250 E 5 b, & 9 VAC 20-80-260 E 7	
B.	Time-frames for Closure	Y	9 VAC 20-80-250 E 3, 9 VAC 20-80-260 E 3, 9 VAC 20-80-270 E 3, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, & 9 VAC 20-80-540 E	
C.	Closure of Disposal Units	Y	9 VAC 20-80-250 E 1, 9 VAC 20-80-250 E 5, 9 VAC 20-80-260 E 1, 9 VAC 20-80-270 E 1, 9 VAC 20-80-270 E 5, & 9 VAC 20-80-320 C	
1.	Surface Impoundments	Y	9 VAC 20-80-380 B	
D.	Cover Design	Y	9 VAC 20-80-250 E 1 b(1), 9 VAC 20-80-260 E 1 b(1), & 9 VAC 20-80-270 E 1 b(1)	Section 4.b.2, Page 3 of Permit Attachment XII-1.
E.	E&S Control Plan	Y	9 VAC 20-80-250 E 1 b(2), 9 VAC 20-80-260 E 1 b(2), & 9 VAC 20-80-270 E 1 b(2)	Section 4.d, Page 6 of Permit Attachment XII-1.
F.	Schedule for Closure	Y	9 VAC 20-80-250 E 3 a(4), 9 VAC 20-80-260 E 2 a(2), 9 VAC 20-80-270 E 2 a(2), 9 VAC 20-80-330 E 3, 9 VAC 20-80-340 E 3, 9 VAC 20-80-360 E 3, 9 VAC 20-80-370 E 3, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E 3, & 9 VAC 20-80-470 E 3	Section 8, Page X-6 of Permit Attachment XII-1.

	Item	Provided (Y/N)	Regulatory Requirement	Comments
G.	Notification	Y	9 VAC 20-80-250 E 5 d, 9 VAC 20-80-260 E 5, & 9 VAC 20-80-270 E 6	Section 10, Page 9 of Permit Attachment XII-1.
H.	Inspection	N/A	9 VAC 20-80-250 E 6&7, 9 VAC 20-80-260 E 5 & 6, 9 VAC 20-80-270 E 5 & 6	

IX.	Post Closure Plan			
A.	General	Y	9 VAC 20-80-250 F, 9 VAC 20-80-260 F, & 9 VAC 20-80-270 F	
1.	Post Closure Period Required	Y	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
2.	Years Remaining	N/A	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	The facility is active.
B.	Monitoring Plan	Y	9 VAC 20-80-250 F 4 a, 9 VAC 20-80-260 F 3 a, & 9 VAC 20-80-270 F 3 a	
C.	Post Closure Uses	Y	9 VAC 20-80-250 F 4 c, 9 VAC 20-80-260 F 3 c, & 9 VAC 20-80-270 F 3 c	

X.	Financial Assurance			
A.	Cost Est. Approval	Y	9 VAC 20-70-111 & 112	
B.	Mechanism	Y	9 VAC 20-70-140	Per CEDS, the facility is in compliance until 12/30/2005.



This checklist indicates information included in the permit on the date the checklist was completed. Any approvals, demonstrations or plans the facility may have previously submitted to the Department not included in the permit were not included in this review. Facilities that lack current, facility specific permit modules remain subject to their existing permits, any approved plans, and the standards in the applicable regulations.

**10-Year Permit Review, VA Code 10.1 - 1408.1.E.
Permit Review Checklist for Landfills**

Reviewed By:	<u>Jim Stump</u>	Geologist:	<u>Geoff Christe</u>
Date Reviewed:	<u>3/16/2005</u>		
Facility Type:	<u>Sanitary Landfill</u>		
Facility Name:	<u>Bristol Quarry Landfill</u>		
Permit No.:	<u>588</u>		
Permit Issued Date:	<u>2/13/1996</u>		
Amendment 1 Date:	<u>10/10/2000</u>	Amend 4	<u>6/17/2002</u>
Amendment 2 Date:	<u>10/15/2001</u>	Amend 5	<u>10/8/2003</u>
Amendment 3 Date:	<u>10/18/2001</u>	Amend 6	<u>10/8/2003</u>
HB1205 Ranking:	<u>N/A</u>		
Title V:	<u>Y</u>		

Findings/Deficiencies: Permit does not indicate quarterly monitoring consistent with requirements of wetlands legislation. Special waste section does not reference lead acid batteries or abestos material. Permit does not contain a plan for acceptance of unauthorized waste.

Applicable Regs. By
Facility Type:

Sanitary Landfill	CDD Landfill	Industrial Landfill	Transfer Station
9 VAC 20-80-250	9 VAC 20-80-260	9 VAC 20-80-270	9 VAC 20-80-340
9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-520	9 VAC 20-80-320
			9 VAC 20-80-540
Material Recovery	Eng. Rec. & Incin.	Surface Impound.	
9 VAC 20-80-360	9 VAC 20-80-370	9 VAC 20-80-380	
9 VAC 20-80-320	9 VAC 20-80-320	9 VAC 20-80-320	
9 VAC 20-80-540	9 VAC 20-80-530	9 VAC 20-80-540	

	Item	Provided (Y/N)	Regulatory Requirement	Comments
I.	General Information			
A.	Part A Approval	Y	9 VAC 20-80-500 C	
B.	Approval Date:	9/7/1993		
C.	1993 Subtitle D Amendment	Y	9 VAC 20-80-250 A, 9 VAC 20-80-260 A, & 9 VAC 20-80-270 A	
D.	Part A Expansion	N		

II.	General Site Plans			
A.	Existing Site Conditions	Y	9 VAC 20-80-520 A 1 b	
B.	Base Grade Plan	Y	9 VAC 20-80-520 A 1 c	
C.	Modification Plans	Y	9 VAC 20-80-520 A 1 d	
D.	Phasing Plan	Y	9 VAC 20-80-520 A 1 f & 9 VAC 20-80-520 A 1 h	
E.	Cross Sections	Y	9 VAC 20-80-520 A 1 h	
F.	Flood Plain	Y	9 VAC 20-80-250 A 2, 9 VAC 20-80-260 A 1, & 9 VAC 20-80-270 A 1	
G.	Wetlands	N	9 VAC 20-80-250 A.4, 9 VAC 20-80-260 A.6, 9 VAC 20-80-270 A 5	wetlands demonstration approved on 11/10/99
H.	General Facility Info	Y	9 VAC 20-80-520 B 1 & 9 VAC 20-80-520 B 2	
I.	Site Access	Y	9 VAC 20-80-250 B 1, 9 VAC 20-80-250 B 2, 9 VAC 20-80-260 B 1, 9 VAC 20-80-260 B 2, 9 VAC 20-80-270 B 1, 9 VAC 20-80-270 B 2, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
J.	Utilities	Y	9 VAC 20-80-250 B 3, 9 VAC 20-80-250 B 5, 9 VAC 20-80-260 B 3, 9 VAC 20-80-260 B 5, 9 VAC 20-80-270 B 3, & 9 VAC 20-80-270 B 5	
K.	Aesthetics	Y	9 VAC 20-80-250 B 4, 9 VAC 20-80-260 B 4, 9 VAC 20-80-270 B 4, & 9 VAC 20-80-520 A 1 j(11)	
L.	Location of Cells	Y	9 VAC 20-80-260 B 13, 9 VAC 20-80-260 B 15, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

M.	Benchmarks	Y	9 VAC 20-80-250 B 16, 9 VAC 20-80-270 B 9, 9 VAC 20-80-520 A 1 j(1)	
N.	Borrow & Stockpile Areas	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-520 A 1 j(7), & 9 VAC 20-80-520 A 1 j(8)	
O.	Final Site Topography Plan	Y	9 VAC 20-80-520 A 1 e	
P.	Monitoring Plan	Y	9 VAC 20-80-520 A 1 g	

III.	Liners			
A.	Regulatory Requirements			
1.	Sanitary Landfills	Y	9 VAC 20-80-250 B 9, 9 VAC 20-80-520 A 1 h, & 9 VAC 20-80-520 B 2	
2.	Other Landfills	N/A	9 VAC 20-80-260 B 14, 9 VAC 20-80-270 B 14, & 9 VAC 20-80-520 B 2	
B.	Design Plans and Report			
1.	Liner System	Y	9 VAC 20-80-520 B 2	
a.	Composite	Y		bottom has double liner; variance for sidewall lining
b.	Single Liner			
c.	None	N/A		
2.	Piggy Backing	Y		phase 3 & 4 overtop of phase 1 & 2

IV.	Liquids Management System			
A.	Leachate Collection & Control			
1.	Leachate Disposal	Y	9 VAC 20-80-290 D	
a.	POTW	Y	9 VAC 20-80-290 D 1	
b.	Recirculation	N/A	9 VAC 20-80-290 D 3	
c.	Other	N/A	9 VAC 20-80-290 D	
2.	Leachate Management Plan	Y	9 VAC 20-80-290	
a.	Collection System	Y	9 VAC 20-80-290 A 2	
b.	Storage	N/A	9 VAC 20-80-290 A 3	
c.	Leachate Treatment	N/A	9 VAC 20-80-290 D 4	
B.	Run-on Control System	Y	9 VAC 20-80-250 B 6 a, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-270 B 13, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 i, & 9 VAC 20-80-520 A 1 j	

C.	Run-off Control System	Y	9 VAC 20-80-250 B 6 b, 9 VAC 20-80-260 B 6, 9 VAC 20-80-270 B 6, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 I, & 9 VAC 20-80-520 A 1 j	
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V. Gas Management System				
A.	Management Plan	Y	9 VAC 20-80-250 B 8, 9 VAC 20-80-260 B 9, & 9 VAC 20-80-280	
1.	General Requirements	Y	9 VAC 20-80-280 A	
2.	Monitoring	Y	9 VAC 20-80-280 B,C, & D	
3.	Control	Y	9 VAC 20-80-280 E	
4.	Contingency Plan	Y	9 VAC 20-80-280 E 1 a	
5.	Clean Air Act/ VA Operating Permit	Y	9 VAC 20-80-280 E 3	
B.	Remediation Plan	Y	9 VAC 20-80-280 E 1 c	
1.	Active	Y		
2.	Passive			
3.	Combination			

VI. Groundwater Monitoring				
A.	Groundwater Monitoring Plan	Y	9 VAC 20-80-250 B 11, 9 VAC 20-80-300 A 1, 9 VAC 20-80-300 A 3, 9 VAC 20-80-260 B 11, 9 VAC 20-80-300 A 3, 9 VAC 20-80-270 B 12, 9 VAC 20-80-300 A 3, 9 VAC 20-80-520 A 1 g, 9 VAC 20-80-520 A 1 h, 9 VAC 20-80-520 A 1 j, & 9 VAC 20-80-520 B 2	
1.	Detection	Y	9 VAC 20-80-300 B 2	
2.	Assessment	N/A	9 VAC 20-80-300 B 3	
3.	Phase I		9 VAC 20-80-300 C 3	
4.	Phase II		9 VAC 20-80-300 C 4	
5.	GPS		9 VAC 20-80-300 B 3 h	
6.	Corrective Action		9 VAC 20-80-310	
7.	Phase III		No longer applicable	
8.	Selection of Remedy		9 VAC 20-80-310 B	
9.	Implementation of CA		9 VAC 20-80-310 C	

10.	GW Monitoring System	Y	9 VAC 20-80-300 A 3	
11.	Wetlands Legislation	N		
a.	Demonstration Approved	N		approved demonstration not in permit or CEDS
b.	Quarterly Monitoring	N		

VII.	Operations Manual			
A.	Service Information	Y	9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, 9 VAC 20-80-520 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
B.	Personnel	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-520 C 2 k, 9 VAC 20-80-530 E, & 9 VAC 20-80-540 D	
C.	Site Access	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, & 9 VAC 20-80-270 C 1	
1.	Hours of Operation	Y	9 VAC 20-80-250 C 3, 9 VAC 20-80-260 C 1, 9 VAC 20-80-270 C 1, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-520 C 2 i, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
2.	Traffic Routing	Y	9 VAC 20-80-250 C 13 d, 9 VAC 20-80-250 C 13 e, 9 VAC 20-80-270 C 10, 9 VAC 20-80-270 C 18, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
D.	Waste Handling	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
1.	Types of Wastes	Y	9 VAC 20-80-10, 9 VAC 20-80-250 C 1, 9 VAC 20-80-250 C 16, 9 VAC 20-80-250 C 17, & 9 VAC 20-80-270 C 14	
2.	Litter Control	Y	9 VAC 20-80-250 C 13 a & 9 VAC 20-80-260 C 2	
3.	Dust, Odor, Vectors	Y	9 VAC 20-80-250 C 13 b, 9 VAC 20-80-260 C 3, & 9 VAC 20-80-270 C 2	

4.	Open Burning	Y	9 VAC 20-80-250 C 8, 9 VAC 20-80-260 C 6, 9 VAC 20-80-270 C 5	
5.	Unauthorized Waste Acceptance Plan	N	9 VAC 20-80-250 C 1 & 9 VAC 20-80-520 C 2 f	
E.	Filling Operation	Y	9 VAC 20-80-250 C 13 f, 9 VAC 20-80-270 C 12 a, & 9 VAC 20-80-270 C 15	
F.	Handling of Special Wastes	Y	9 VAC 20-80-250 C 16 b, 9 VAC 20-80-250 C 16 o, 9 VAC 20-80-C 16 t, 9 VAC 20-80-250 C 16 x, & 9 VAC 20-80-270 C 11	with approval
G.	Equipment	Y	9 VAC 20-80-250 C 6, 9 VAC 20-80-260 C 5, 9 VAC 20-80-270 C 4, 9 VAC 20-80-270 C 17, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
H.	Compaction and Cover	Y	9 VAC 20-80-250 C 2, 9 VAC 20-80-260 C 11, & 9 VAC 20-80-270 C 11	
I.	ADC Approvals	Y	9 VAC 20-80-250 C 2 c	
I.	Safety	Y	9 VAC 20-80-250 C 5, 9 VAC 20-80-260 C 4, 9 VAC 20-80-270 C 3, & 9 VAC 20-80-520 C 2 h	
J.	Inspection	Y	9 VAC 20-80-250 C 1, 9 VAC 20-80-270 C 14, & 9 VAC 20-80-520 C 2 f	
K.	Control & Monitoring of Liquids & Gases	Y	9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	
L.	Records	Y	9 VAC 20-80-250 C 18, 9 VAC 20-80-260 C 9, 9 VAC 20-80-270 C 7, 9 VAC 20-80-520 C 2 c, 9 VAC 20-80-530 D 1, & 9 VAC 20-80-540 C 1	

VIII.	Closure Plan			
A.	General	Y	9 VAC 20-80-250 E 9 VAC 20-80-260 E, 9 VAC 20-80-270 E, 9 VAC 20-80-320 C, 9 VAC 20-80-330 E, 9 VAC 20-80-340 E, 9 VAC 20-80-360 E, 9 VAC 20-80-370 E, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E, 9 VAC 20-80-470 E, 9 VAC 20-80-520 A 1 e, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, 9 VAC 20-80-540 E, & 9 VAC 20-80-560	
1.	Units & Status	Y	9 VAC 20-80-250 E 4, 9 VAC 20-80-260 E 3, & 9 VAC 20-80-270 E 3	
2.	Capped Area Approvals	Y	9 VAC 20-80-250 E 5 b, & 9 VAC 20-80-260 E 7	
B.	Time-frames for Closure	Y	9 VAC 20-80-250 E 3, 9 VAC 20-80-260 E 3, 9 VAC 20-80-270 E 3, 9 VAC 20-80-520 A 2, 9 VAC 20-80-530 F, & 9 VAC 20-80-540 E	
C.	Closure of Disposal Units	Y	9 VAC 20-80-250 E 1, 9 VAC 20-80-250 E 5, 9 VAC 20-80-260 E 1, 9 VAC 20-80-270 E 1, 9 VAC 20-80-270 E 5, & 9 VAC 20-80-320 C	
1.	Surface Impoundments	N/A	9 VAC 20-80-380 B	
D.	Cover Design	Y	9 VAC 20-80-250 E 1 b(1), 9 VAC 20-80-260 E 1 b(1), & 9 VAC 20-80-270 E 1 b(1)	
E.	E&S Control Plan	Y	9 VAC 20-80-250 E 1 b(2), 9 VAC 20-80-260 E 1 b(2), & 9 VAC 20-80-270 E 1 b(2)	
F.	Schedule for Closure	Y	9 VAC 20-80-250 E 3 a(4), 9 VAC 20-80-260 E 2 a(2), 9 VAC 20-80-270 E 2 a(2), 9 VAC 20-80-330 E 3, 9 VAC 20-80-340 E 3, 9 VAC 20-80-360 E 3, 9 VAC 20-80-370 E 3, 9 VAC 20-80-380 B, 9 VAC 20-80-400 E 3, & 9 VAC 20-80-470 E 3	
G.	Notification	Y	9 VAC 20-80-250 E 5 d, 9 VAC 20-80-260 E 5, & 9 VAC 20-80-270 E 6	

H.	Inspection	Y	9 VAC 20-80-250 E 6&7, 9 VAC 20-80-260 E 5 & 6, 9 VAC 20-80-270 E 5 & 6	
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IX.	Post Closure Plan			
A.	General	Y	9 VAC 20-80-250 F, 9 VAC 20-80-260 F, & 9 VAC 20-80-270 F	
1.	Post Closure Period Required	Y	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
2.	Years Remaining	Y	9 VAC 20-80-250 F 2, 9 VAC 20-80-260 F 1, & 9 VAC 20-80-270 F 1	
B.	Monitoring Plan	Y	9 VAC 20-80-250 F 4 a, 9 VAC 20-80-260 F 3 a, & 9 VAC 20-80-270 F 3 a	
C.	Post Closure Uses	Y	9 VAC 20-80-250 F 4 c, 9 VAC 20-80-260 F 3 c, & 9 VAC 20-80-270 F 3 c	

X.	Financial Assurance		9 VAC 20-70-10	
A.	Cost Est. Approval	Y	9 VAC 20-70-111 & 112	
B.	Mechanism	Y	9 VAC 20-70-140	