

2206 South Main Street Blacksburg, Virginia 24060 540.552.0444 www.daa.com

August 16, 2021 Revision 1 - October 15, 2021 (Response to CR-1)

Submitted electronically via email to: <u>jenghwa.lyang@deq.virginia.gov</u> Hard copies will not be provided unless requested.

Mr. JengHwa Lyang, Ph.D., P.E., Solid Waste Permit Writer Virginia Department of Environmental Quality Valley Regional Office 4411 Early Road Harrisonburg, VA 22801

Subject: Ivy Materials Utilization Center - Transfer Station - PBR 132

Permit by Rule (PBR 132) - Permit Modification

Changed in Daily Throughput and Hours of Operation

Notice of Intent for Permit by Rule Modification and Submittal documentation

Draper Aden Associates Project No. 2101168

Dear Mr. Lyang:

The purpose of this letter is to submit the Notice of Intent to the Virginia Department of Environmental Quality (VDEQ) regarding a permit by rule application modification for the Ivy Solid Waste Transfer Station - PBR 132. This facility is located at 4576 Dick Woods Road, Charlottesville, VA 22903 and was permitted on September 14, 2018. The facility was permitted with a process rate of 300 tons per day.

The Permit By Rule Modification is an operational change and may be described as follows: *To increase the permitted process rate from 300 tons per day to 450 tons per day given increases in waste quantities entering the facility. No changes in the facility design or waste types are anticipated.*

In addition, the Rivanna Solid Waste Authority, voted on September 28, 2021 to approve a change in the hours of operation of the facility to 7:30 to 4:00 Monday through Saturday. The PBR application form has been updated to address this change. An excerpt from the <u>revised</u> transfer station operations manual is provided below:

3.15 Operating Hours

Current hours of operation (open to the public) are 7:30am to 4:00pm, Monday through Saturday. This schedule may be modified at the discretion of the RSWA Board of Directors to accommodate community needs. The IMUC site will be closed to the public on certain Board of Directors-approved holidays, and may also be closed due to inclement weather. These closures will be identified in Board of Director's meeting

Mr. Jenghwa Lyang August 16, 2021 Revision 1 - October 15, 2021 (Response to CR-1) Page 2 of 4

minutes, through advertisements in local publications, the RSWA website, and through signage at the facility front gate with every attempt made to provide the public as much notice as possible.

In support of this permit modification, the Authority is submitting the following documents:

- 1. PBR application form
- 2. Notice of intent letter with area and site location maps
- 3. Local government certification, DEQ Form SW-11-1
- 4. Design standard certification from a P.E.
- 5. Operations manual certification
- 6. Closure cost estimate revision and certification
- 7. Public participation documentation
- 8. \$390 PBR modification fee

These documents are submitted with this Notice of Intent as discussed below.

A. PBR Application form

Documentation has been provided; see ATTACHMENT 1.

B. Area and Location Maps

Documentation has been provided; see ATTACHMENT 2.

C. Local Government Certification of consistency with local ordinances and the Regional Solid Waste Management Plan

Documentation has been provided; see **ATTACHMENT 3.**

A minor amendment relative to the change in throughput for this transfer station in the TJPDC Solid Waste Management Plan was submitted to DEQ on July 29, 2021. This minor amendment is included in **ATTACHMENT 03**.

D. Design Standard Certification

Documentation has been provided; see **ATTACHMENT 4**.

E. Operations Manual Certification

Documentation has been provided; see **ATTACHMENT 5**.

Mr. Jenghwa Lyang August 16, 2021 Revision 1 - October 15, 2021 (Response to CR-1) Page 3 of 4

There was only one minor change in the operations manual relative to the permit modification. Section 3.9, Rated Capacity, was changed from 300 tons per day to 450 tons per day. No other sections were impacted.

F. Closure Cost Estimate Revision

Documentation has been provided; see ATTACHMENT 6.

The original 2018 estimate has been updated to 450 tons per day and the unit costs for hauling and disposal adjusted to the current 2021 contracts. Stockpiles have also been included.

Proof of adjustment to financial assurance will be provided by RSWA under separate cover.

Public Participation Summary

The public participation process is being initiated. See **ATTACHMENT 7** which includes the advertisement for the public comment period and the meeting.

Permit Fee

A copy of the check paying the permit fee is submitted as **ATTACHMENT 8**. A copy of the check will be sent to VRO.

Sincerely,

Draper Aden Associates

William G. Hase, P.E., Program Manager II

Waste Resource Engineering

Willi D. Hase

Attachments

Attachment 1 - PBR Application Form

Attachment 2 – Area and Site Location maps

Attachment 3 – Local Government Certifications

Attachment 4 – Design Standard Certification by P.E.

Attachment 5 - Operations Manual Certification

Attachment 6 - Closure Cost Estimate revision

Attachment 7 - Public Participation documentation

Attachment 8 - PBR Permit Modification Fee (\$390)

Mr. Jenghwa Lyang August 16, 2021 Revision 1 - October 15, 2021 (Response to CR-1) Page 4 of 4

cc: Mr. Graham Simmerman, VDEQ, Regional Compliance Manager Mr. Phillip McKalips, Director of Solid Waste, RSWA

ATTACHMENT 1 PERMIT-BY-RULE APPLICATION FORM



Solid Waste Management Facility PBR Application Form

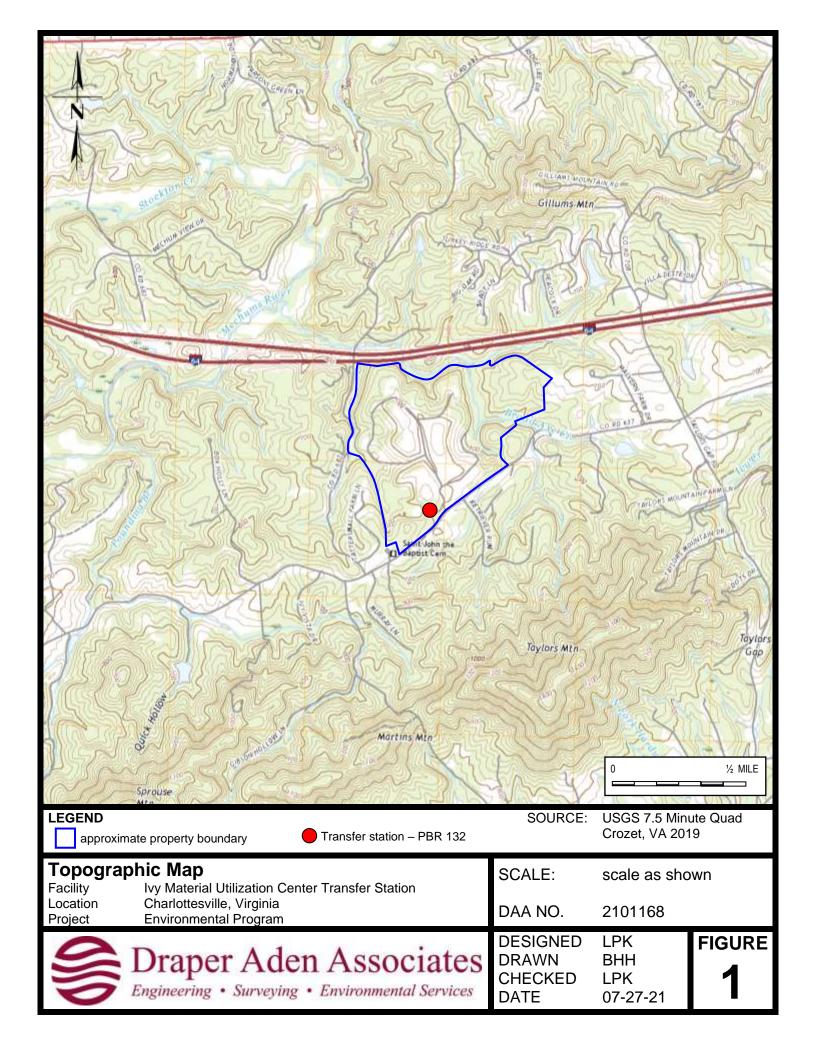
Please specify, is this application for a New Facility or PBR Modification

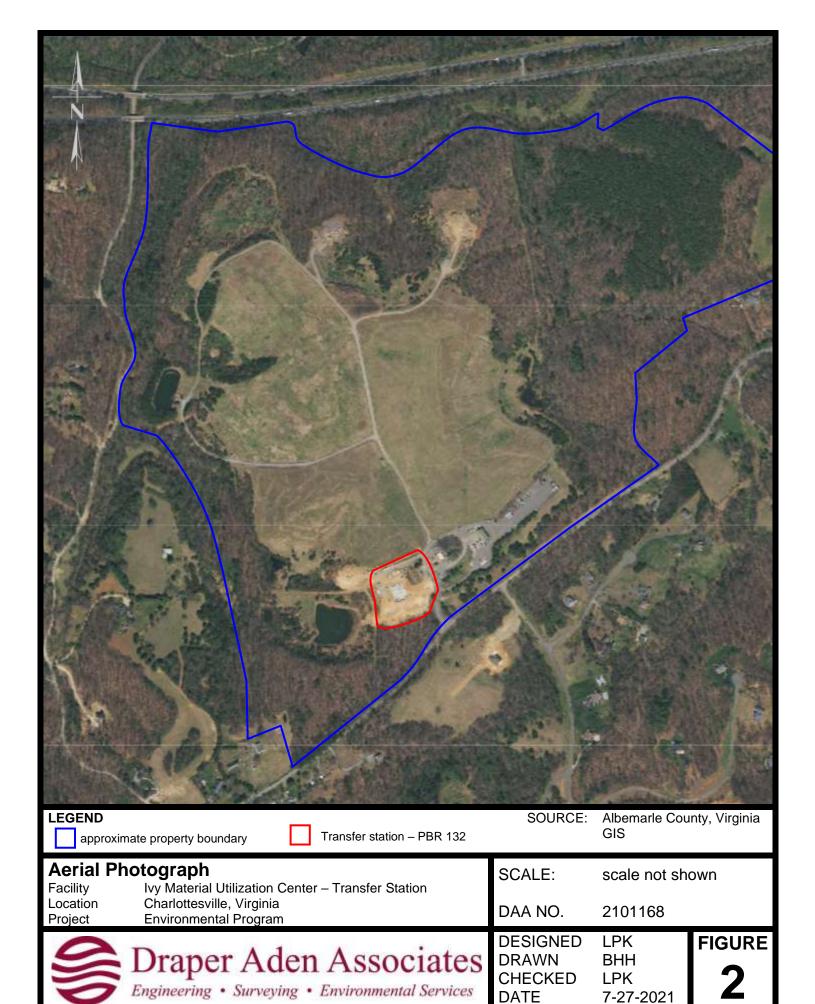
FACILITY INFORMATION A. Facility Information Facility Name:___ Ivy Solid Waste Transfer Station Permit No. PBR 132 Location Address: ____ 4576 Dick Woods Road City, State, Zip: ____ Charlottesville, VA 22903 Latitude: 38 Deg 1 Min 14.84 Sec North Longitude: -78 Deg 39 Min 14.91 Sec West **B.** Facility Contact Information Contact Person: Mr. Phil McKalips Contact Title: Director of Solid Waste Contact Phone: (434) 977-2970 Contact E-mail: PMcKalips@rivanna.org Owner: Rivanna Solid Waste Authority Operator: Rivanna Solid Waste Authority Mailing Address: 695 Moores Creek Lane __Mailing Address: 695 Moores Creek Lane City, State, Zip: Charlottesville, VA 22902 City, State, Zip: Charlottesville, VA 22902 **ii. OPERATIONAL INFORMATION** A. Facility Type and Capacity Specify Facility Type (check all that apply): ☐ Compost Facility: ☐ Type A or ☐ Type B Specify Feedstocks: Category I Category II Category III Category IV Centralized Waste Treatment Facility ▼ Transfer Station ☐ Incineration Facility Waste Pile Materials Recovery Facility Waste to Energy FacilityThermal Treatment Facility Total Property Acreage: 300,585 acres Facility Boundary: 4.28 acres Process Rate: 300 tons per day Storage Capacity: Solid Waste: 100 cubic yards Recovered material: 100 cubic yards Hours of Operation: 7:30 am to 4:00 pm, Monday through Saturday B. Types of Wastes to be Accepted (check all that apply) **☒** Agricultural Waste **☒** Debris Waste Municipal Solid Waste **☒** Animal Carcasses **☒** Demolition Waste ✓ Scrap Metal Asbestos, friable **Fossil Fuel Combustion Products** Single Stream Recyclables Asbestos, non-friable **☒** Household Hazardous Waste Sludge, industrial ☒ Ash, non CCB/FFCP ⋈ Household Waste Sludge, POTW Commercial Waste Industrial Waste **☒** Vegetative Waste Construction Waste **Institutional Waste** Waste Tires, Storage: 20 cy Contaminated Soil Liquid Waste White Goods Other Wastes, please list: ___

C. Wastewater/Leachate Management (check all that apply)		
☐ Discharged directly to WWTP ☐ Treated onsite and discharged ☐ Other, please specify:		
Leachate Storage Method: Tank(s) Impoundment(s) or Other, specify: lined leac	hate storag	e pond
Leachate Storage Capacity: 1 million gallons		
III. PBR APPLICATION ATTACHMENTS		
The following items shall be provided as an attachment to this form and will constitute the facility's Pe		le
application. Please indicate whether each item is 'provided' or 'not applicable' to the proposed facility	or facility	
modification.		
Permit-by-Rule Application Attachmen	Provided	N/A
A. Notice of Intent	X	
1. Area and Site Location Maps	X	
2. Disclosure Statement, DEQ Forms DISC-01 and DISC-02		×
3. Local Government Certification and Solid Waste Management Plan Consistency		
Certification, DEQ Form SW-11-1	\boxtimes	
B. Certification of Siting Standards, 9 VAC 20-81-320		\boxtimes
C. Certification of Operations Manual meeting standards of 9 VAC 20-81-340	X	
D. P.E. Certification of Design/Construction Standards, 9 VAC 20-81-330	X	
E. P.E. Certification of Closure Plan meeting standards of 9 VAC 20-81-360	X	
F. Demonstration of legal control over the site		X
G. State Corporation Commission Certification		X
H. Closure Cost Estimate and Proof of Financial Assurance	×	
I. Public Participation Summary To be provided under separate cover.		X
J. Copies of other DEQ Media Permits (Air, VPDES, etc.)		X
K. For facilities engaged in reclamation of petroleum-contaminated materials, a description of		
how the requirements of 9VAC20-81-660 will be met	Ш	X
L. Permit Fee specified under 9 VAC 20-90	X	
M. Variance Petition in accordance with 9 VAC 20-81-760		
If provided, please indicate the regulatory citation for variance:	<u></u>	\boxtimes
W DECDONCIDIE OFFICIAL CICNATURE		
V. RESPONSIBLE OFFICIAL SIGNATURE certify under penalty of law that this document and all attachments were prepared under my direction		
n accordance with a system designed to assure that qualified personnel properly gather and evaluate t	-	
ubmitted. Based on my inquiry of the person or persons who manage the system or those persons dire		
or gathering the information, the information submitted is to the best of my knowledge and belief true		
omplete.	., accurace,	ana
(AAM a Tall)	1,1/2	,
IGNATURE: Of Maurice, DATE: 10	11/4	
JAME: William I. Mawyer, Jr., P.E		
ITLE: Executive Director, RSWA		

09/2020

ATTACHMENT 2 AREA MAP AND SITE LOCATION MAPS





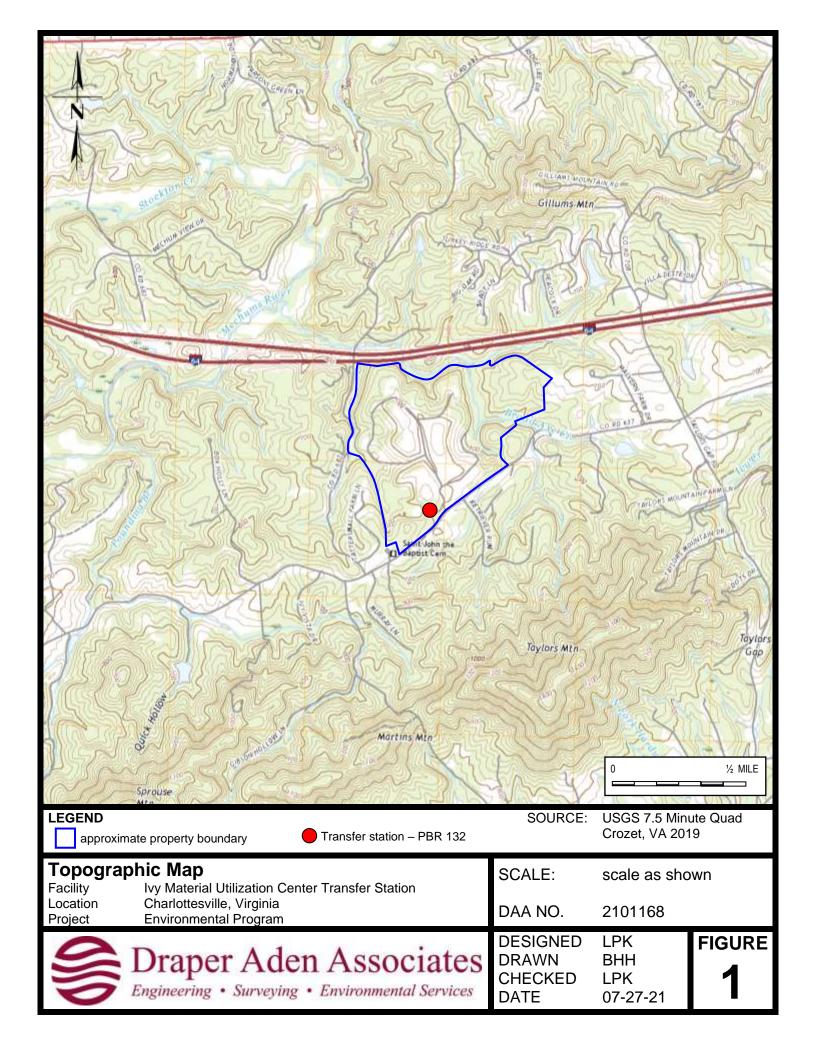
ATTACHMENT 3 LOCAL GOVERNMENT CERTIFICATIONS

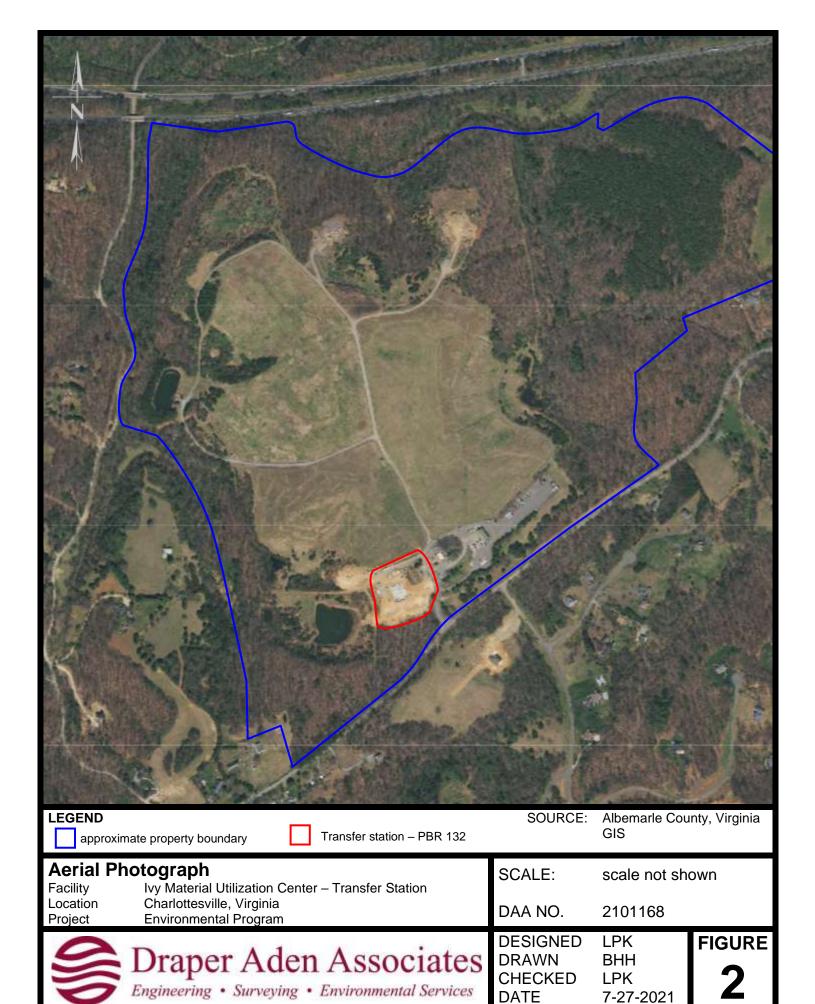


Local Government Certification Request DEQ Form SW-11-1

Part 1: Zoning Certification Request

Applicant Information	
APPLICANT: Rivanna Solid Waste Authority	
APPLICANT'S MAILING ADDRESS: 695 Moores Creek Lane Charlottesville, VA 229	902
FACILITY/BUSINESS NAME: Ivy Material Utilization Center	702
FACILITY LOCATION (ADDRESS and/or PARCEL ID): 4576 Dick Woods Road, Charter and Control of the C	arlottesville VA 22002
TYPE OF SOLID WASTE MANAGEMENT FACILITY: Transfer Station	Erottesville, VA 22703
Certification Request	
The applicant is in the process of completing an application for a permit for a solid waste be issued by the Virginia Department of Environmental Quality. In accordance with Virginia (1950), as amended, before such a permit application can be considered comple obtain certification from the governing body of the county, city, or town in which the facil the location and the operation of the proposed facility and/or its proposed expansion is applicable local ordinances. The undersigned requests that an authorized representative body sign the certification below.	\$10.1-1408.1 Code of te, the applicant has to lity is to be located that
SIGNATURE OF THE APPLICANT: TYPED OR PRINTED NAME: William I Mawyer, Jr., P.E. TITLE: Executive Director NOTE: The applicant should enclose an appropriate map showing the location of the property expansion.	6/2-5/202/ 434) 977-2970 osed facility /
Zoning Certification The undersigned certifies that the location and operation of the proposed facility/expansio all applicable local ordinances adopted pursuant to Chapter 22 (§15.2-2200 et seq.) of Tit of Virginia.	n is consistent with le 15.2. of the Code
Is the facility limited by a Special Use, Conditional Use, or similar permit / authorization fi	
✓ NO ☐ YES (please attach to this form)	rom the locality?
SIGNATURE OF THE AUTHORIZED LOCAL GOVERNMENT REPRESENTATIVE:	
TYPED OR PRINTED NAME: FRANCIS H MACCALL DATE:	07/29/2021
TITLE: DEPUTY ZONING ADMINISTRATOR TELEPHONE:	434-296-5832 X3418
COUNTY, CITY, or TOWN: COUNTY OF ALBEMARLE	







Local Government Certification Request DEQ Form SW-11-1

Part 2: Solid Waste Management Plan Certification Request

Applicant Information
APPLICANT: Rivanna Solid Waste Authority
APPLICANT'S MAILING ADDRESS: 695 Moores Creek Lane Charlottesville, VA 22902
FACILITY/BUSINESS NAME: Ivy Material Utilization Center
FACILITY LOCATION (ADDRESS and/or PARCEL ID): 4576 Dick Woods Road, Charlottesville, VA 22903
TYPE OF SOLID WASTE MANAGEMENT FACILITY: Transfer Station
Certification Request The applicant is in the process of completing an application for a permit for a solid waste management facility to be issued by the Virginia Department of Environmental Quality. In accordance with §10.1-1408.1 and §10.1-1411, Code of Virginia (1950), as amended, before such a permit application can be considered complete, the applicant has to obtain certification from the governing body of the county, city, or town in which the facility is to be located that the location and the operation of the proposed facility and/or its proposed expansion is: either consistent with the local or regional solid waste management plan (SWMP) or has initiated the process of amending the SWMP to include the new or expanded facility. For a permit by rule (PBR) application; in accordance with §10.1-1408.1.Q, the facility must be consistent with the SWMP that has been developed and approved in accordance with §10.1-1411. The undersigned requests that an authorized representative of the solid waste planning unit sign the certification below.
SIGNATURE OF THE APPLICANT: Applicant: Date: 6/25/2021 TYPED OR PRINTED NAME: William I Mawyer, Jr., P.E. Date: 6/25/2021 TITLE: Executive Director TELEPHONE: (434) 977-2970 NOTE: The applicant should enclose an appropriate map showing the location of the proposed facility /
Solid Waste Management Plan Certification The undersigned certifies that the proposed facility/expansion is consistent with the local or regional solid waste management plan (SWMP) or this plan is being amended for consistency. If the application is for a PBR, the undersigned certifies that the proposed facility is consistent with the SWMP and the SWMP has been approved in accordance with §10.1-1411.
SIGNATURE OF THE AUTHORIZED LOCAL GOVERNMENT REPRESENTATIVE: TYPED OR PRINTED NAME: Shires e Franklin DATE: 7/29/21 TITLE: Planner 11 TELEPHONE: 434-422-4080 COUNTY, CITY, or TOWN: Charlo Hesville (Thomas Jesteson Planning District Comminission) Comminission, Comminission,



2206 South Main Street Blacksburg, Virginia 24060 540.552.0444 www.daa.com

July 29, 2021

Ms. Prina Chudasama Litter and Recycling Program Coordinator Virginia Department of Environmental Quality 1111 East Main Street, Suite 1400 Richmond VA 23219

RE: Thomas Jefferson Planning District Commission – Solid Waste Management Plan Minor Amendment – Ivy Transfer Station - PBR 132 Change in daily tonnage throughput Draper Aden Associates Project No. 2101168

Dear Ms. Chudasama:

This letter is being written on behalf of the Thomas Jefferson Planning District Commission (TJPDC) who is the lead entity for the TJPDC waste planning region (Region) which includes Albemarle County. The Region is requesting approval of a minor amendment to their solid waste management plan (SWMP) as discussed below.

Under 9 VAC 20-130-175.C.1 minor amendments to regional solid waste management plans are defined as follows:

C. Minor amendments.

- 1. Minor amendments shall include:
 - a. Any addition, deletion, or cessation of operation of any facility that is not a solid waste disposal facility;
 - b. Any change that moves toward implementation of a waste management strategy that is higher in the waste management hierarchy; or
 - c. Any non-substantive administrative change such as a change in name.
- 2. Minor amendments shall be submitted, by mail or electronic mail, directly to the department for notation. The planning units are the repository for the minor amendments to the plans.

Ms. Prina Chudasama July 28, 2021 Page 2 of 2

Based on previous discussions with VDEQ, it is our understanding that transfer stations are not considered solid waste disposal facilities and thus any changes in their operations would be considered a minor amendment to the Plan.

At this time, the Ivy Transfer Station (operated by the Rivanna Solid Waste Authority) is seeking a permit modification to Permit by Rule 132 to increase their daily operation throughput from 300 tons per day to 450 tons per day (an operational change). Prior to submittal of the permit modification, the RSWA must obtain certification from the Region that the facility is consistent with the SWMP. At this time, the SWMP references 300 tons per day for this facility. The Region has modified Page 35, to change this reference to 450 tons per day and is supporting our submittal of this information as a minor amendment in accordance with 9VAC20-130-173.C.

It is my understanding that TJPDC is in the process of updating the Plan which will be submitted this October and which will include this minor amendment.

Attached is the modified page for insertion in to your documentation. We don't believe that any further action is required by VDEQ or the Region.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Draper Aden Associates

-P. Klappich

Lynn P. Klappich Program Manager

Attachments: Attachment 1 – TJPDC - SWMP - Updated Page 35

cc: Ms. Shirese, Franklin, TJPDC

Mr. Phil McKalips, Director of Solid Waste

Mr. Bill Hase, DAA

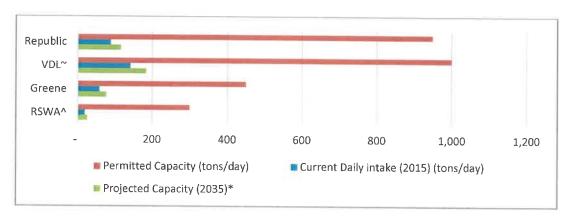
4.2 System Capacity for the 20-Year Planning Period

TABLE 22. SOLID WASTE MANAGEMENT SYSTEM CAPACITY

Facility Name	Permitted Capacity (tons/day)	Current Daily intake (2015) (tons/day)	Current Annual intake (2015)	Net Annual Tons (2015)	% of Daily Permitted Capacity used (2015)	Projected Capacity (Tons) (2035)*	Projected Percent Capacity used (2035)
RSWA Ivy							
MCU^	450	20	7,327	120	7%	26	9%
Greene							
County MRF	450	59	21,633	356	13%	77	17%
Zion							
Crossroads							
Recycling Ctr~	1,000	142	51,877	853	14%	185	18%
Republic							
Services							
Fluvanna							
County	950	90	32,759	539	9%	117	12%

Source: Weldon Cooper Center & Facility Operators

The Fluvanna County Convenience Center is not a permitted facility, and its capacity is constrained only by physical space at the facility. Fluvanna County estimates that between 3 and 4 tons of waste is handled at the convenience center daily. The Republic Services Transfer Station and the Zion Crossroads Recycling Center also receive waste from the TJSWPU. However, waste received from this planning unit constitutes only a fraction of the waste handled by these facilities. Thus, it is not possible to calculate the capacity of those facilities based on waste received from this region. Table 22 describes information available about the capacity and TJSWPU waste handled by these facilities.



NOTES

- ^ includes IVY and Recycling Center
- ~ TJSWPU area derived waste only. SWPU waste estimated to be 53% of the total (97,318 tons in 2015)
- *2035 rates based on the average regional population growth rate of 30%.

FIGURE 7. CURRENT PERMITTED AND PROJECTED CAPACITIES OF AREA FACILITIES

Source: Weldon Cooper Center & Facility Operators

ATTACHMENT 4 DESIGN STANDARD CERTIFICATION BY P.E.



2206 South Main Street Blacksburg, Virginia 24060 www.daa.com

August 12, 2021 Revised - CR-1

Mr. JengHwa Lyang, PhD., P.E. Solid Waste Permit Writer Virginia Department of Environmental Quality Valley Regional Office 4411Early Road Harrisonburg, VA 22801

Subject: Ivy Materials Utilization Center - Transfer Station

Permit-By-Rule (PBR) 132 Modification

Change in Daily Throughput

Design and Construction Certification

DAA Project No. 2101168

Dear Mr. Lyang:

On behalf of the Rivanna Solid Waste Authority, Draper Aden Associates (DAA) is submitting the following certification statement regarding the design and construction of the Ivy Solid Waste Transfer Station in relationship to the change in the daily throughput of the facility. The increase as requested represents an additional 150 tons per day. (From 300 tons per day to 450 tons per day.) To verify that the facility can handle the increased tonnage we have considered the following:

- Based on communications with the Rivanna Solid Waste Authority (RSWA), the request is focused on the need to handle short term spikes in tonnage deliveries that could be created by (but not limited to):
 - Large/significant demolition projects
 - Debris clean up after a storm event
 - Amnesty days or bulk pick up days
- RSWA indicated that it is most likely that the additional waste will be delivered by commercial haulers.
- RSWA records from 3/1/21 through 8/2/21 for their most significant commercial hauler (Times Disposal/County Waste), show an average tonnage per truck of approximately 8 tons (526 scale entries over this period).
- Assuming 450 tons per day, this would equate to approximately 56 trucks per day.
- The transfer station is open from 7:30 to 4:00 Monday through Saturday (8.5 hours)
- Assuming 56 trucks entering the facility on a typical day and 8.5 hours of operation, this would be an average of 7 trucks an hour.
- Assuming an average length of a roll off is 40 feet (per County Waste), seven trucks entering the facility at the same time would require 280 linear feet of storage.
- From the exit side of the in-bound scales to the side entrance at the transfer station is 675 feet.

- The distance from the scales to the transfer station is twice the theoretical distance that would be needed for the incoming tonnage.
- In addition, from the turn off of Dick Woods Road onto the access road, there is a total distance of 1,100 feet from the beginning of the access road to the transfer station. Thus, additional queuing space is available prior to entering the scales, if needed.
- The haul trailers are not considered as the RSWA controls their movement and has significant storage on site for trailers if needed.

In accordance with VSWMR 9 VAC 20-81-410.A.2.e.(1), this statement is provided to certify that the applicable design and construction standards of 9 VAC 20-81-330.B have been met for the subject transfer station considering the increase on the daily tonnage throughput from 300 tons per day to 450 tons per day. No changes or modifications were required in the access to or within the facility to accommodate this change in throughput.

Certification indicates a professional opinion based upon professional experience, a review of applicable regulations in effect at the time of this certification, interpretation of the intent of the design/construction requirements, review of construction submittals, and site observations.

If you have questions or require additional information, please contact the undersigned at 804-264-2228.

Sincerely,

DRAPER ADEN ASSOCIATES

William G. Hase, P.E.

Project Engineer

cc: Philip McKalips, Director of Solid Waste, RSWA

Lic. No. 21807 08/31/2021

ATTACHMENT 5 OPERATIONS MANUAL CERTIFICATION



October 14, 2021

Virginia Department of Environmental Quality Attn.: JengHwa Lyang, Ph.D, P.E. 4411 Early Road Harrisonburg, VA 22801

Re: Owner certification of Operations Manual

Ivy Transfer Station (PBR #132) Update for Permit Modification

Mr. Lyang,

As indicated by my signature below, I certify that an Operations Manual has been prepared for the transfer station (SWP #132) recently constructed at the Ivy Material Utilization Center, which meets the requirements of 9 VAC 20-81-340. This Operations Manual will be maintained at the facility in accordance with the requirements of 9 VAC 20-81-485. Based on the recently submitted permit by rule modification, Section 3.9, Rated Capacity, has been updated from 300 tons per day to 450 tons per day and Section 3.15, Operating Hours, has been updated 7:30am to 4:00pm Monday through Saturday. No other changes were required.

If you should have any questions or comments regarding this certification, please do not hesitate to contact me.

Respectfully,

William I. Mawyer, Jr., P.E.

Executive Director

Rivanna Solid Waste Authority

ATTACHMENT 6 CLOSURE COST ESTIMATE REVISION And CERTIFICATION



Solid Waste Management Facility Cost Estimate Form, DEQ Form CE SWMF

I. FACILITY INFORMATION

Facility Name: Ivy Solid Waste Transfer Station Permit No. 132

 Location Address:
 4576 Dick Woods Road,

 City, State, Zip:
 Charlottesville, VA 22903

FA Holder: Rivanna Solid Waste Authority

Estimate Prepared by: <u>Draper Aden Associates</u>

II. OPERATIONAL AND CLOSURE DETAILS

Process Rate: 450 tons/day Closure Plan Title: Closure Plan Ivy Solid Waste

Transfer Station VDEQ Permit 132

Storage Capacity:0 cubic yardsClosure Plan Date:8/2017Process Area:11650 square feetP.E. Certification Date:8/31/21

III. Total Closure Cost Estimate

Closure Cost Element	Total Cost	Notes
Total Waste Removal Cost (including stockpiles):	\$21,699.00	Specify Loading / Hauling and Disposal Rate (\$/ton) or (\$/cy): \$48.22
Total Leachate / Washwater Removal Cost:	\$3.05	Specify Loading / Hauling and Disposal Rate (\$/ton) or (\$/gal): \$0.00159
Total Decontamination Cost:	\$5,000.00	
Total Postciosure Cost (if necessary):	\$0	
Total P.E. Certification of Closure:	\$1,750.00	
Total Other:	\$116,776.20	Specify: Stockpiles - see attachment
Total:	\$145,228.25	

References: Please indicate references used to develop this cost estimate, specify any assumptions made, and provide any supplemental calculations as necessary:

Total waste removal cost includes the removal of 450 tons (maximum daily tonnage) at \$48.22 per ton. The cost for leachate removal includes the disposal of wash water in the existing leachate collection system; wash water will be 1.920 gallons based on using a pressure washer for 8 hours at 4 gallons per minute discharge. The leachate disposal rate for the facility is currently \$0.00159/gallon. A crew and equipment to clean equipment and the transfer station is estimated for a day at \$5,000/day. The PE certification cost is estimated to require 10 hours of time at \$175/hour. Stockpile costs based on letter from RSWA (attached) dated 8/31/21.

IV. CERTIFICATION BY PREPARER

This is to certify that the cost estimates pertaining to the engineering features and monitoring requirements of this solid waste management facility have been prepared by me and are representative of the design specified in the facility's Closure Plan. The estimate is based on the cost of hiring a third party and does not incorporate any salvage value that may be realized by the sale of wastes, facility structures, or equipment, land or other facility assets at the time of closure. In my professional judgment, the cost estimates are a true, correct, and complete representation of the financial liabilities for closure and postclosure care of the facility and comply with the requirements of 9 VAC 20-70 and all other DEQ rules and statutes of the Commonwealth of Virginia.

SIGNATURE: NAME: TITLE:	Lynn P. Klappich WRE Program Manager	DATE: 10/11/21
Acknowledge	ment by Owner / Operator:	
SIGNATURE: .	William I. Mawyer, Jr., P.E.	DATE: 10/11/21
TITLE:	Executive Director, Rivanna Solid Waste Authority	



August 31, 2021

JengHwa Lyang, Ph.D., P.E. Solid Waste Permit Writer Land Protection and Revitalization VA DEQ – Valley Regional Office 4411 Early Road P.O. Box 3000 Harrisonburg, VA 22801

Dear Mr. Lyang,

Below is the revised cost estimate for potential disposal of Stockpiled Materials for Beneficial Use (see Table 1). The cost per ton for disposal and transportation of vegetation, debris, and glass is supported by the existing contract between the Rivanna Solid Waste Authority and Thompson Trucking. The contract amount is \$48.22 per ton, inclusive of transportation and disposal costs at the Waste Management Maplewood (Amelia) Landfill. Tires are transported to Emanual Tire in Appomattox, where they are processed for recycling at \$75.00 per ton plus \$62.50 for transportation (total cost of \$137.50 per ton). Freon containing units are process for scrap metal after having their freon recovered, the net cost for this is \$11.15 per ton.

Table 1 – Disposal Cost for Stockpiled Materials for Beneficial Use

Material	Unit	Cost per Unit	Est. Quant.	Hauling	Tot. Disposal Cost
Vegetation and	Ton	\$48.22	2250	included	\$108,495.00
Debris					
Tires	Ton	\$48.22	50	included	\$6,875.00
Glass	Ton	\$48.22	25	included	\$1,205.5
Freon Units	Ton	\$48.22	18	included	\$200.70
Total Disposal Cost:					\$116,776.20

These costs represent the higher end of stockpiled material inventories. For example, tires are normally only stockpiled for up to 30 days following an Amnesty Day (day for free residential tire disposal).

The previous Trust Account for the Transfer Station held \$105,000 for Stockpiled Materials. An additional \$11,776.20 will be added to the Trust Account to bring it's balance for Stockpiled Materials to \$116, 776,20.

If you should have any questions or comments regarding this estimate, please do not hesitate to contact me.

Respectfully, Mily

Phillip McKalips

Director of Solid Waste

Rivanna Solid Waste Authority

CC: Lonnie Wood - RSWA

Suzanne Taylor - VA DEQ



1030 Wilmer Avenue, Suite 100 Richmond, Virginia 23227 www.daa.com

August 12, 2021 CR 1 revision

Mr. JengHwa Lyang, Ph.D., P.E. Solid Waste Permit Writer Virginia Department of Environmental Quality Valley Regional Office 4411 Early Road Harrisonburg, VA 22801

Subject: Ivy Material Utilization Center - Transfer Station

Permit by Rule (PBR) 132 - Modification

Changed in Daily Throughput Closure Plan Certification DAA Project No. 2101168

Dear Mr. Lyang:

CC:

On behalf of the Rivanna Solid Waste Authority, Draper Aden Associates is submitting the following certification statement regarding the closure plan for the Ivy Solid Waste Transfer Station.

In accordance with VSWMR 9 VAC 20-81-410.A.2.e.(2), this statement is provided to certify that the application standards of 9 VAC 20-81-360 have been met in the closure plan for the subject transfer station. There are no changes to the closure plan required for the permit modification. However, the closure estimate has been updated and sent under separate cover to address the increase from 300 tons per day to 450 tons per day.

The closure plan is to be maintained in the transfer station's operating record.

If you have questions or require additional information, please contact me at (804) 261-2916.

Sincerely,

DRAPER ADEN ASSOCIATES

William G. Hase, P.E.

Project Engineer

Phillip D. McKalips, Director of Solid Waste, RWSA

Lic. No. 21807

ATTACHMENT 7 PUBLIC PARTICIPATION DOCUMENTATION

PUBLIC PARTICIPATION FOR PERMIT MODIFICATION TO THE IVY MATERIAL UTILIZATION CENTER - TRANSFER STATION DEQ PERMIT BY RULE 132

In accordance with Virginia Solid Waste Management regulations 9 VAC 20-81-410.A.3. and 9 VAC 20-81-450.B.4., citizens may comment on a permit modification to the Ivy Material Utilization Center - Solid Waste Transfer Station (DEQ PBR 132) owned and operated by the Rivanna Solid Waste Authority and located at 4576 Dick Woods Road, Charlottesville, VA 22902.

COMMENT PERIOD: October 18, 2021 through November 15, 2021.

NAME AND ADDRESS OF APPLICANT: Ivy Material Utilization Center - Solid Waste Transfer Station - PBR 132, 4576 Dick Woods Road, Charlottesville, VA 22902. The facility is owned and operated by the Rivanna Solid Waste Authority, 695 Moores Creek Lane, Charlottesville, VA 22902.

PURPOSE OF NOTICE: The purpose of this notice is to allow the public to comment on a proposed permit modification to the Solid Waste Transfer Station, which operates under a permit-by- rule (PBR 132) issued by the Virginia Department of Environmental Quality on September 14, 2018.

PROJECT DESCRIPTION: The Solid Waste Transfer Station accepts commercial waste, construction waste, debris waste, demolition waste, household waste, municipal solid waste, scrap metal, and vegetative waste. The Permittee is requesting approval from the Virginia Department of Environmental Quality to increase the daily throughput of the facility from 300 tons per day to 450 tons per day. In addition, the hours of operation are being modified from Monday through Friday 7:30 to 4:00 and Saturday 8:30 to 4:00, to Monday through Saturday 7:30 to 4:00. No changes in the facility design or waste types are anticipated.

TO REVIEW THE PERMIT APPLICATION: A copy of the permit-by-rule application document is available for review at the Rivanna Solid Waste Authority offices, located at 695 Moores Creek Lane, Charlottesville, VA 22902 or on the Rivanna Website (www.rivanna.org).

HOW TO COMMENT: Written comments may be submitted at any time during the comment period to Rivanna Solid Waste Authority, located at 695 Moores Creek Lane, Charlottesville, VA 22902. Comments must include the name and address of the person commenting as well as a brief statement regarding the interest of the person commenting and how the permit modification may affect the citizen. Oral and written comments will be received at a public meeting to be held at 6:00 pm on November 1, 2021 at the Ivy Material Utilization Center at 4576 Dick Woods Rd, Charlottesville, VA 22903. Signs will direct interested persons to the venue. Appropriate COVID-19 safety measures will include social distancing and wearing of face masks that cover nose and mouth at all times.

ATTACHMENT 8 PBR PERMIT MODIFICATION FEE (\$390)

