

**CUMBERLAND COUNTY IMPROVEMENT AUTHORITY  
CUMBERLAND COUNTY SOLID WASTE COMPLEX**

**SOIL ACCEPTANCE PROTOCOL**

This protocol establishes procedures to be followed by waste generators and soil brokers petitioning the CCIA/CCSWC to accept soil for use as daily cover material. It also sets forth criteria for I.D. 27 soil acceptable for reuse as daily cover.

At its discretion, CCIA may increase the testing requirements of this section. Generators or soil brokers seeking to dispose of soil at the landfill or seeking permission to use soil as daily cover are urged to consult with CCIA personnel before completing the requirements of this section. Should CCIA determine that ID 27 classification is required, the following procedures in items A through N shall be implemented.

- A. For I.D. 27 soil, sampling shall be performed in accordance with the latest update to the NJDEP Field Sampling Procedures Manual which may be found at: <http://www.state.nj.us/dep/srp/guidance/fspm>

Samples shall be collected at a frequency of one (1) 5-point composite per 1,000 cubic yards. If soil characteristics are similar for sources greater than 10,000 cubic yards, the frequency may be reduced to one (1) 5-point composite per 2,500 cubic yards.

Samples shall be tested for the following parameters:

1. Ignitability as per 40 CFR Section 261.21- Characteristic of ignitability
2. Corrosivity as per 40 CFR Section 261.22- Characteristic of corrosivity
3. Reactivity (Sulfide/Cyanide) as per 40 CFR Section 261.23- Characteristic of reactivity
4. Full (All parameters) "Toxicity Characteristic Leaching Procedure" (TCLP) as per 40 CFR Section 261.24- Toxicity Characteristic
5. Paint-filter test SW-846 Method 9095
6. Total Polychlorinated Biphenyls (PCB's)
7. Total Petroleum Hydrocarbons (not to exceed 5,000 mg/kg)
8. The USEPA Target Compound List Plus 30 or "TCL + 30" /Target Analyte List or "TAL" of parameters. TCL + 30/TAL parameters are defined in the Tech Regs, N.J.A.C. 7:26E-1.
9. Sieve analysis
10. Volatile solids, or combustible content of cover, shall not exceed 12% by weight

Analysis will be conducted by a New Jersey Certified Laboratory. Laboratory Reports must include a cover page, including facility name and address, laboratory

name and address, laboratory certification number, if applicable, date of analytical report preparation and signature of laboratory director; data summary tables showing the following: 1) parameter 2) level detected 3) regulatory level 4) method detection limit 5) a legend defining all units; and all chain of custody documentation. The CCIA reserves the right to request NJ full or reduced laboratory data deliverables be submitted.

- B. The generator or soil broker of the soil must submit to the CCIA, written certification confirming that the soil is non-hazardous ID-27, one (1) copy of the analytical data package (chain of custody, sampling methods, QA/QC data, etc.) for each composite soil sample tested, and a completed Soil Disposal Request Form (provided by the Authority).
- C. Soil contaminated by a known source of virgin petroleum product such as diesel fuel, gasoline, kerosene, etc. and not containing more than 5,000 ppm of total petroleum hydrocarbons (TPHC) will be considered for reuse when a completed request is accompanied by sufficient sampling and testing information.
- D. The CCIA reserves the right not to accept soil contaminated from contact with a hazardous waste or soil that was formerly hazardous waste rendered non-hazardous.
- E. The particle size distribution of the soil shall conform to the landfill's daily cover soil specifications as follows: material to be used as daily cover shall be of quality that is manageable under all weather conditions and does not consist of very fine-grained materials or heavy clays. Impermeable materials (i.e. clay) or very fine materials which may be subject to erosion will not be accepted for use as daily cover material at the landfill. No more than 20 percent of fine grained materials shall pass a No. 200 sieve; at least 40 percent by weight of the fragments in the soil admixture shall be capable of passing through a No. 10 mesh sieve; and particle sizes shall not exceed six inches in diameter.
- F. The CCIA will review submitted laboratory test data and will perform a visual inspection of the non-hazardous ID-27 soil prior to acceptance. The following materials will not be accepted for use as daily cover material:
  - 1. Soil containing wood and other such debris.
  - 2. Soil containing asphalt and/or concrete larger than six inches in diameter.
  - 3. Soils containing organic soil or other organic matter.
  - 4. Soils consisting of heavy clays or very fine grained materials.
  - 5. Soils having a coloration indicating that they contain high levels of petroleum hydrocarbons.
  - 6. Soils showing the presence of free draining petroleum products.
  - 7. Soils that are in any other way unacceptable for use as daily cover material.

- G. Upon approval by the CCIA, the generator of the soil will be advised, in writing, as to the following:
1. When shipment of the ID 27 soil may commence.
  2. The rate of acceptance of the material at the landfill.
- H. ID 27 soil having gone through the above review process and having been determined to be suitable for use as daily cover material shall be accepted at the CCIA CCSWC at the current price of daily cover material. However, if it becomes evident that the ID 27 soil being delivered to the landfill is unsuitable for daily cover because it contains any of the materials listed in Condition F, 1 through 7, the soil will be loaded into a lined roll-off container and stored onsite until analytical results are received.
- I. The CCIA may require that the generator or soil broker of the ID 27 soil perform additional analytical testing of the soil if inspection of the soil reveals that the soil samples previously taken are not, in the judgement of the CCIA, representative of the entire volume of soil requiring disposal. If it becomes evident during the delivery of ID 27 soil to the working face of the landfill that previously submitted data and information may not be representative of the soil being delivered, CCIA reserves the right to reject the soil and require additional testing to be performed by the generator or soil broker at his/her expense. The CCIA will also reserve the right to do random verification sampling of all soil delivered to the landfill. In this event, any soil suspected of exceeding the CCIA I.D. 27 soil acceptance criteria shall be removed from the working face of the landfill at the generator's or soil broker's expense. Any material rejected and removed from the landfill shall not be accepted by the CCIA unless the additional testing indicates that the material is acceptable. All incidences of final rejection of material shall be reported within 10 days to DEP enforcement.
- J. The amount of ID 27 soil that will be delivered to the CCSWC on any given day will be determined by the CCIA. The soil will only be stockpiled at the landfill on active areas of the landfill where all storm water run-off is directed into the leachate collection system. The CCIA will not stockpile more than 10 day's cover material requirements.
- K. All ID 27 soil accepted at the CCSWC shall be delivered to the working face of the landfill and shall be stored and/or used only on lined areas of the landfill.
- L. The applicant requesting disposal for ID 27 soil as cover material shall complete the attached I.D. 27 Soil Disposal Request Form.
- M. The CCIA reserves the right to request the generator or soil broker of the soil submit all information and fees required for I.D. 27 Classification Review to the NJDEP Division of Solid and Hazardous Waste:

New Jersey Department of Environmental Protection

Division of Solid and Hazardous Waste  
Bureau of Solid Waste Permitting  
Mail Code 401-02C  
PO Box 420  
401 East State Street  
2<sup>nd</sup> Floor, West Wing  
Trenton, NJ 08625-0420

If requested, a letter approving the soil for use as cover material would accompany the generator's or soil broker's disposal request to the CCIA.

- N. All records regarding the I.D. 27 contaminated soils shall be maintained at the CCIA administrative office, 745 Lebanon Road, Millville, NJ, and shall be made available for inspection to representatives of the Department. All records shall be submitted to the Department upon request.

### **C&D Screening Material**

C&D Screening material, or otherwise known as a component of ID 13C material, shall meet the following requirements for either disposal or use as alternate cover material:

C&D shall be tested for physical characteristics including, but not limited to % volatile solids, and Asbestos (Friable content or PLM), chemical characteristics including TAL/TCL + 30 parameters (when analyte concentrations are less than the hazardous waste levels by a factor of 20 or more), Asbestos (transmission electron microscope or TMS) and calcium sulfate (concentrations should not exceed 3% by weight). C&D shall be sampled at a frequency of one (1) sample per 10,000 cubic yards and shall be a composite of five (5) grab samples.

C&D waste shall not contain debris such as bottles, metals, or any waste as defined by the NJDEP, above de minimus levels shall be accepted for use as cover material.

Material exceeding analyte concentrations included in **Table 1** – Material Concentration Limits will not be accepted by CCIA. Material impacted at concentrations exceeding NJ RDSCRS will be accepted at a lower tipping fee rate when compared to material that is relatively highly impacted, i.e. soil exceeding NJ NRDCRS.

**TABLE 1 - MATERIAL CONCENTRATION LIMITS**

Cumberland County Solid Waste Complex  
 169 Jesse Bridge Road  
 Deerfield Township, NJ

Parameter / Contaminant	Method	Lab Results (mg/L or ppm)	TCLP/RCRA Characteristics Limit	Method Detection Limit	Alternate Soil Acceptance Criteria	Method Detection Limit
<b>General Chemistry</b>						
Ignitability			≤ 140 degrees F		-	
Corrosivity			≤ 2 and ≥ 12.5 pH		-	
Reactive Sulfide			500 mg/kg	mg/kg	-	
Reactive Cyanide			250 mg/kg	mg/kg	-	
% Moisture			-		-	
% Volatile Solids			12%		12%	
<b>TCLP Metals</b>						
Arsenic			5 mg/l	mg/l	60 mg/kg	mg/kg
Barium			100 mg/l	mg/l	2000 mg/kg	mg/kg
Cadmium			1 mg/l	mg/l	20 mg/kg	mg/kg
Calcium			-	mg/l	-	mg/kg
Chromium (hexavalent)			5 mg/l	mg/l	240 mg/kg	mg/kg
Lead			5 mg/l	mg/l	800 mg/kg	mg/kg
Magnesium			-	mg/l	-	mg/kg
Mercury			0.2 mg/l	mg/l	23 mg/kg	mg/kg
Phosphorus			-	mg/l	-	mg/kg
Potassium			-	mg/l	-	mg/kg
Selenium			1 mg/l	mg/l	20 mg/kg	mg/kg
Silver			5 mg/l	mg/l	100 mg/kg	mg/kg
<b>TCLP Pesticides/Herbicides</b>						
Endrin			0.02 mg/l	mg/l	0.4 mg/kg	mg/kg
Heptachlor			0.008 mg/l	mg/l	0.16 mg/kg	mg/kg
Lindane			0.4 mg/l	mg/l	8 mg/kg	mg/kg
Methoxychlor			10 mg/l	mg/l	200 mg/kg	mg/kg
Toxaphene			0.5 mg/l	mg/l	10 mg/kg	mg/kg
<b>TCLP Volatiles</b>						
Benzene			0.5 mg/l	mg/l	10 mg/kg	mg/kg
Carbon tetrachloride			0.5 mg/l	mg/l	10 mg/kg	mg/kg
Chlordane			0.03 mg/l	mg/l	0.6 mg/kg	mg/kg
Chlorobenzene			100 mg/l	mg/l	2000 mg/kg	mg/kg
Chloroform			6 mg/l	mg/l	120 mg/kg	mg/kg
Methyl ethyl ketone			200 mg/l	mg/l	4000 mg/kg	mg/kg
Tetrachloroethene			0.7 mg/l	mg/l	14 mg/kg	mg/kg
Trichloroethene			0.5 mg/l	mg/l	10 mg/kg	mg/kg
Vinyl chloride			0.2 mg/l	mg/l	4 mg/kg	mg/kg
<b>TCLP Semi-volatiles</b>						
a-Cresol			200 mg/l	mg/l	4000 mg/kg	mg/kg
m-Cresol			200 mg/l	mg/l	4000 mg/kg	mg/kg
p-Cresol			200 mg/l	mg/l	4000 mg/kg	mg/kg
Cresol			200 mg/l	mg/l	4000 mg/kg	mg/kg
1,4-Dichlorobenzene			7.5 mg/l	mg/l	150 mg/kg	mg/kg
1,2-Dichloroethane			0.5 mg/l	mg/l	10 mg/kg	mg/kg
1,1-Dichloroethene			0.7 mg/l	mg/l	14 mg/kg	mg/kg
2,4-Dinitrotoluene			0.13 mg/l	mg/l	2.6 mg/kg	mg/kg
<b>TCLP Semi-volatiles</b>						
Hexachlorobenzene			0.13 mg/l	mg/l	2.6 mg/kg	mg/kg
Hexachlorobutadiene			0.5 mg/l	mg/l	10 mg/kg	mg/kg
Hexachloroethane			3 mg/l	mg/l	60 mg/kg	mg/kg
Nitrobenzene			2 mg/l	mg/l	40 mg/kg	mg/kg
Pentachlorophenol			100 mg/l	mg/l	2000 mg/kg	mg/kg
Pyridine			5 mg/l	mg/l	100 mg/kg	mg/kg
2,4,5-Trichlorophenol			400 mg/l	mg/l	8000 mg/kg	mg/kg
2,4,6-Trichlorophenol			2 mg/l	mg/l	40 mg/kg	mg/kg
<b>Total Petroleum Hydrocarbons (TPH)</b>						
Total Petroleum Hydrocarbons (TPH)			-		5,000 mg/kg	mg/kg
<b>Total PCB's</b>						
Total PCB's			-		10 mg/kg	mg/kg

Note: Any material originating from a TSCA-regulated site must receive written approval from EPA Remedial Manager for disposal at the landfill.

# Cumberland County Improvement Authority Cumberland County Solid Waste Complex

## Soil Disposal Request Form

### GENERAL INFORMATION

1. Generator's Name \_\_\_\_\_ 2. EPA ID Number \_\_\_\_\_  
3. Street Address \_\_\_\_\_ 4. Municipality \_\_\_\_\_  
(where soil was generated)  
5. County \_\_\_\_\_ 6. State \_\_\_\_\_ 7. Zip Code \_\_\_\_\_ 8. Contact \_\_\_\_\_  
9. Phone Number ( ) - \_\_\_\_ - \_\_\_\_\_.  
10. Regulatory Program: ISRA \_\_\_ RCRA \_\_\_ CERCLA \_\_\_ UST \_\_\_ NJ Spill Act \_\_\_ County/Local \_\_\_ Other \_\_\_\_.  
11. Agency Contact \_\_\_\_\_ 12. Date of Request for Disposal \_\_\_\_\_

APPLICANT (Complete if someone is submitting this request on behalf of the generator or soil broker or if the generator's or soil broker's mailing address is different from above--All correspondence will be addressed to this company if this section is completed.)

13. Company Name \_\_\_\_\_  
14. Mailing Address \_\_\_\_\_  
15. Municipality \_\_\_\_\_ 16. State \_\_\_\_\_ 17. Zip Code \_\_\_\_\_  
18. Contact \_\_\_\_\_ 19. Phone Number \_\_\_\_\_

### TRANSPORTATION

20. Contractor to be used to deliver soil \_\_\_\_\_  
21. Mailing Address \_\_\_\_\_  
22. City \_\_\_\_\_ 23. State \_\_\_\_\_ 24. Zip Code \_\_\_\_\_  
25. Volume of Soil \_\_\_\_\_ Tons / Cubic Yards. (Circle one)  
26. Disposed: Once Daily Weekly Monthly Annually (Circle one)  
27. Waste Description: Describe in detail the waste to be accepted. Describe how soil became contaminated. (e.g., Soil became contaminated with # 2 fuel oil during the removal of a leaking underground storage tank).

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28. Waste Texture/Gradation (i.e. sand, silt, clay, etc.) \_\_\_\_\_

29. Were other hazardous wastes discovered at the same site (Yes / No) If yes, indicate which contaminants are or were present on the site. Indicate any other processes, including storage, which involve the use of hazardous materials on the site.

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**MATERIAL INFORMATION**

30. Describe if the material is known or suspected to be naturally-occurring radionuclide material (NORM); ANY other radiological characteristics resulting in the material having radioactivity above any background level or which could pose a health or environmental concern under any circumstance; and/or which could cause the materials to be regulated in any manner for a radioactive characteristic by any State or Federal Agency.

Information attached to these forms? Yes \_\_\_\_\_ No \_\_\_\_\_

31. Is the material regulated pursuant to the Atomic Energy Act or any regulations for radioactive materials administered by the Nuclear Regulatory Commission (NRC) or other Agencies, is classified as technologically enhanced naturally-occurring radionuclide material (TENORM) which is ID-27 Dry Industrial Solid Waste in New Jersey, or contains any radionuclide over the levels established in NJAC 7:28-12?

Yes \_\_\_\_\_ No \_\_\_\_\_ If yes, describe (*attach additional sheets if necessary*)

**SAMPLING INFORMATION**

32. Sampling Methodology: Describe in detail, the sampling methods used to obtain a representative sample of the material.

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33. Compositing Scheme: Indicate the number of discrete samples comprising each laboratory sample composite.

34. Descriptive Site Diagram: showing the location of the waste to be accepted, description of storage (i.e. stockpiles, excavation, native soil), and sample locations.

**ANALYTICAL LABORATORY TESTING CERTIFICATION**

I hereby certify that the materials tested were tested in accordance with all quality assurance procedures dictated by the approved analytical method, and 7:26E-2.1, and that the samples tested correspond to the sample(s) identified above.

Signature of Test Administrator: \_\_\_\_\_

Printed Name of Test Administrator: \_\_\_\_\_

Title & Company of Test Administrator: \_\_\_\_\_

Date: \_\_\_\_\_



**OWNER / GENERATOR CERTIFICATION**

**OWNER /GENERATOR CERTIFICATION** (Must be completed for All Applications)

(If an Agent or Legal Representative is to sign on behalf of the Owner, provide a notarized letter or authorization from the Owner)

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

I am also aware that the County’s opinion on the hazardous/nonhazardous status of the material/waste represented by the information presented on this form, in no way relieves my responsibility to properly determine whether the waste generated is a hazardous waste in accordance with provisions of 7:26G-1,3-12 et seq.

I understand that, in addition to criminal penalties, I may be liable for a civil administrative penalty pursuant to NJAC 7:26 and that submitting false, inaccurate or incomplete information may be grounds for denial, revocation or termination of any solid waste facility permit, license or other operating authority for which I may be seeking approval or now hold.

_____ Generator Name (print)	_____ Date
_____ Generator Signature	_____ Title & Company
_____ Submitter Name (print)	_____ Date
_____ Submitter Signature	_____ Title & Company
_____ LSRP Name (print) (if applicable)	_____ Date
_____ LSRP Signature (if applicable)	_____ Title & Company