



Material Handling Plan

All materials proposed for management at the P Park NJ after January 1, 2013 will use the following acceptance and testing protocols:

1. **Certification and Approval:** The *P Park NJ Fill Acceptance Certification and Approval* form will be completed and submitted with analytical results via e-mail to Jessica Russomanno at JRussomanno@PParkNJ.com. Once material from a specific source is approved, subsequent submissions for additional materials from these sources do not need to complete additional applications.
2. **Analytical Testing/Data:** The analytical characterization of fill materials will be completed in accordance with all relevant New Jersey Department of Environmental Protection (NJDEP) regulations and guidance, as outlined in Table 1, *Regulatory and Reference Documents*, (see attached). Clean Fill is defined as material meeting NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS) or site-specific Alternative Acceptance Criteria, as appropriate. Material shall be analyzed for and in accordance with the procedures outlined in Table 2, *General Fill Material Chemical Criteria Testing*, (see attached).
3. **Geotechnical Evaluation:** Geotechnical information as to the Organic Content of the material proposed for acceptance must be submitted with each application. Organic Content shall be determined using **ASTM Method D 2974-07a** as outlined in Table 3, *Geotechnical Criteria*, (see attached).
4. **Scaling:** All materials must be scaled. Scaling may be performed at an on-site scale.
5. **QA/QC Testing:** P Park will be performing QA/QC sampling in accordance with P Park NJ Testing Protocols. The Material Owner will be notified should results exceed the facility acceptance criteria, i.e. NJRDCSRS.
6. **Weigh Tickets:** All weigh tickets/Bills of Lading will be collected, assembled, and will contain, at a minimum, the following information:
 - a. Total Weight
 - b. Tare Weight
 - c. Net Weight
 - d. Type of Material (i.e., common fill or topsoil)
 - e. Source of Material (Name and Address)
 - f. The P Park NJ Project Number issued upon acceptance and review of a completed application
7. **Tonnages:** Totals of tonnages of all imported materials from each source shall be tabled and logged to establish quantities delivered.
8. **Written Approval:** Written or email approval for fill material use must be received from WCD.
9. **Certificate of Insurance:** P Park NJ requires a Certificate of Insurance, naming P Park NJ, LLC as Additionally Insured and P Park NJ must be listed as a Certificate Holder (as P Park NJ, LLC, 100 Planten Avenue, Prospect Park, NJ 07508).

**TABLE 1
REGULATORY AND REFERENCE DOCUMENTS**

	DOCUMENT TITLE	REFERENCE	MAIN ISSUE ADDRESSED
1	TECHNICAL REQUIREMENTS FOR SITE REMEDIATION Statutory authority N.J.S.A. 13:1D et seq., 13:1E et seq., 13:1K-6 et seq., 58:10-23.11a et seq., 58:10A-1 et seq., 58:10A-21 et seq., and 58:10B-1 et seq. Date last amended May 7, 2012	N.J.A.C. 7:26E For the regulatory history and effective dates see the Administrative Code Rule expiration date May 7, 2019	Required certification and documentation to comply with the technical requirements. Work, quality assurance, and sampling plan requirements
2	Technical Requirements for Areas of Concern (AOC)	N.J.A.C.7:26-E3.9(a-f)	Definition of Areas of Concern, including: <ul style="list-style-type: none"> • Materials emanating from process areas with bulk storage tanks and appurtenances • Storage and staging areas • Surface impoundments • Drainage systems • Discharge and waste disposal systems • Other process areas characterized as areas of concern.
3	Solid Waste Regulations	N.J.A.C. 7:26 Subchapter 2A.	Requirements for above barrier backfill for sanitary landfills. Closure and certifications.
4	Analytical Sampling and Testing	2005 NJDEP Field Sampling Procedures Manual	Sampling collection, preservation, and holding times for soils subjected to analytical tests.
5	1998 Revised Guidance for the Remediation of Contaminated Soils	NJDEP Guidance Document for the Remediation of Contaminated Soils	Risk assessment to determine acceptable soil screening levels
6	Clean Tested Soil	N.J.A.C. 7:26E-6.3(b)2.iv	Exclusion of sources described in the Technical Requirements for Site Remediation 7:26E-6.4(d)
7	Class II-A Ground Water Quality Standards	N.J.A.C. 7:9-6	Comparison of Synthetic Precipitation Leachate Procedure (SPLP) to standards
8	Surface Water Quality Standards	N.J.A.C. 7:9B	Comparison of SPLP to standards
9	Guidance for Characterization of Concrete and Clean Material Certification for Recycling	N.J.A.C. 7:26A <i>et seq.</i> ; or 7:26-1.7(g),	Characterization of on-site concrete and potential import of clean concrete from demolition projects



**TABLE 2
GENERAL FILL MATERIAL CHEMICAL CRITERIA TESTING**

Conducted by material owner and submitted with *General Fill Certification and Approval Form*

P PARK ANALYTICAL REQUIREMENTS

- Chromium, Hexavalent – EPA SW846-7196A
- Cyanide, Total – EPA SW846-9013A/9010C
- Herbicides, Target List – EPA SW846-8151B
- Metals, Target Analyte List – EPA SW846-6010B
- Mercury – EPA SW846-7471
- Extractable Petroleum Hydrocarbons - NJDEP EPH (Cat. 2 Non-Fractionated) – NJDEP EPH Rev 3.0
- Organic Content by Loss on Ignition – AASHTO/ASTM T 267-86 (2004)
- Pesticides, NJDEP/TCL List – EPA SW846-8081B
- Polychlorinated Biphenyls (PCB) – RPA SW846-8082A
- Semi-Volatiles, NJDEP/TCL List – EPA SW846-8270C
- Volatile Organics, NJDEP/TCL List – EPA SW846-8260B
- P. Park N.J. acceptance protocols require compliance with New Jersey Direct Contact Soil Remediation Standard for all imported material. The current required lab analysis for applicable Target Analytes – TAL/TCL + 30 which is not uniformly capturing the full Target Analyte List, depending on the laboratory performing the analysis.

To ensure full compliance with P. Park N.J. acceptance protocols clients are advised to specifically request on the laboratory Chain of Custody Form : **NJDCSRS and TAL/TCL + 30 plus**

- **Frequency:**
Given the unregulated nature of quarry reclamation, the degree and frequency of pre- acceptance material testing should be governed by the project risk tolerance level and not regulatory compliance. The scope of pre-acceptance testing is very material and source dependent. The scope of environmental testing should be discussed with the full project team prior to adoption of a site specific protocol.
- **Proposed Pre-Acceptance Procedure:**
One sample for every 3,000 cy of material. Each sample shall consist of the following: for all parameters except VOC's, one composite sample of five discrete grab samples (collected from separate locations over the entire representative volume of material). Each of the five grab sample locations shall be screened with a PID and a discreet encore sample is collected for VOCs at the location with the highest PID reading. In cases where no PID reading is observed, the sample point is randomly selected.

- **Onsite QA/QC Procedures:**
QA/QC testing shall be conducted as stated above in the Proposed Pre-Acceptance Procedure.

(updated 6/2015)



**TABLE 3
GEOTECHNICAL CRITERIA**

LABORATORY TESTING	ASTM D2974-07a	Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
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