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1. The approval herein granted is limited to the processing by blending only and beneficial use of the dewatered dredge waste or dredge-derived material as follows:
 - a. Processing by blending only of dewatered dredge waste with commercially available products (i.e., gravel and virgin sand, clean and un-contaminated topsoil, etc.) and/or drying admixtures (i.e., lime, bentonite, cement, etc.) to produce a uniformly mixed dredge-derived material for beneficial use as an aggregate, a sub-grade or sub-base material for roadway construction.
 - b. Processing by blending only of dewatered dredge waste with other waste-derived materials (i.e., crushed, clean and segregated concrete and asphalt, fly ash, waste bentonite, foundry sand, lime kiln dust, cement kiln dust, steel or iron slag, etc.) to produce uniformly mixed a dredge-derived material for beneficial use as specified below:
 1. As a sub-grade material for construction activities.
 2. As a lightweight aggregate in concrete or landscaping blocks.
 3. As a sub-base material for light roadway construction activities (i.e., pedestrian traffic, gravel or paved access roads for light vehicular traffic, parking lot, pipe bedding, etc.).

A written approval, for each waste source (i.e., crushed, clean and segregated concrete and asphalt, fly ash, waste bentonite, foundry sand, lime kiln dust, cement kiln dust, steel or iron slag, dredge waste, etc.) or dredge-derived material, must be obtained from the Department prior to its use.

- c. Processing by blending only of dewatered dredge waste with glass waste (processed to a sand-like consistency) that is unsuitable for recycling to produce a uniformly mixed dredge-derived material for beneficial use as a construction material for which the dredge-derived material meets project specifications.
 - d. Processing by blending only of dewatered dredge waste with steel slag to produce a uniformly mixed dredge-derived material for beneficial use as a roadway sub-base for roadway construction use.
2. The dewatered dredge waste or dredge-derived material may be beneficially used if the following quality criteria requirements are met:
 - a. Where the dewatered dredge waste or dredge-derived material will be beneficially used as an aggregate, a sub-grade, a sub-base or being blended with steel slag or other aggregate as a roadway construction material, the dewatered dredge waste or dredge-derived material must comply with the applicable requirements of the Pennsylvania Department of Transportation (PennDOT).

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- b. Where the dewatered dredge waste or dredge-derived material will be beneficially used under a project contract, the contract must specifically address the engineering qualities and characteristics that must be met for completion of the job or project. The contract must specifically indicate that the dewatered dredge waste or dredge-derived material satisfies the engineering requirements and the specifications for the job or project.
- c. Where the dewatered dredge waste or dredge-derived material will be beneficially used in lieu of conventional construction materials, the dewatered dredge waste or dredge-derived material shall conform with the applicable material standards as set forth in the American Society of Testing and Material (ASTM) standards listed in the Appendix A of this general permit or other applicable National, state or industry standard or specification for which the waste is being substituted.
- d. The dewatered dredge waste or dredge-derived material must provide equivalent performance as the raw material it is replacing.
 - 1. In the construction of small structures on shallow foundations, pedestrian walkways, access roads for light vehicular traffic, parking lots, bedding for the pipeline extension, equipment lay-down areas, etc., at a minimum, the bearing capacity of 1,000 lb/ft², for the compacted dewatered dredge waste or dredge-derived material, shall be required.
 - 2. In the construction projects with large structural loads (i.e., multi-floors buildings, petroleum storage tanks, etc.), at a minimum, the following information must be documented:
 - i. Final engineering design of the project.
 - ii. Calculations of the maximum bearing capacity for the compacted dewatered dredge waste or dredge-derived material, and structural loads.
 - iii. Ratio, type and amount of the admixtures to be blended with the dewatered dredge waste or dredge-derived material.
- e. Prior to the first beneficial use of dewatered dredge waste or dredge-derived material, and every 10,000 cubic yards thereafter of dewatered dredge waste or dredge-derived material from the same source, the chemical analysis for "Total" and "Leachable" levels of dewatered dredge waste or dredge-derived material shall not exceed the concentration limit, for any constituent, listed in Tables 1 through 5 below. After the chemical analysis of dewatered dredge waste or dredge-derived material, from a source, has been conducted at this frequency for five sampling events and has met the concentration limit specified in Tables 1 through 5 of this Condition, the Department may reduce the required frequency of monitoring if a written request for the reduction of sampling frequency is submitted by the permittee. A written approval from the

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Department must be obtained prior to commencing of the reduced sampling frequency.

**Table 1
Inorganic Compounds**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
pH	5.5 to 9.5 (std unit)	-
Antimony	30	0.15
Arsenic	41	1.25
Barium	5000	50.0
Beryllium	2.0	0.1
Cadmium	20	0.125
Chromium	1000	2.5
Chloride	---	250
Cobalt	---	17.5
Copper	700	32.5
Total Cyanide	20 (Reactive)	0.2
Lead	200	1.25
Mercury	20	0.05
Nickel	200	17.5
Selenium	60	1.0
Silver	5.0	2.5
Sulfate	---	250
Thallium	6.0	0.0125
Zinc	1000	125

**Table 2
Volatile Organic Compounds**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
Benzene	0.8	0.005
Carbon Tetrachloride	2.1	0.005
Chlorobenzene	-	0.1
Chloroform	0.5	0.1
1,2-Dichloroethane	0.3	0.005
1,1-Dichloroethene	1.0	0.007
Tetrachloroethene	2.0	0.005
Trichloroethene	2.0	0.005
Vinyl Chloride	2.0	0.02

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**Table 3
Polychlorinated Biphenyls (PCBs)**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
Total PCBs	4.0	0.005

**Table 4
Pesticides and Herbicides**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
Aldrin	0.3	2.06×10^{-6}
alpha-BHC	0.71	5.56×10^{-6}
beta-BHC	40	---
delta-BHC	30	---
gamma-BHC (Lindane)	3.0	0.0002
gamma-Chlordane	---	0.02
alpha-Chlordane	---	0.02
4,4-DDD	20	1.46×10^{-4}
4,4-DDE	10	1.03×10^{-4}
4,4-DDT	10	1.03×10^{-4}
Dieldrin	0.3	2.19×10^{-6}
Endosulfan I	60	0.21
Endosulfan II	60	0.21
Ensulfan sulfate	80	---
Endrin	20	0.02
Heptachlor	1.0	0.0004
Heptachlor epoxide	0.5	0.0002
Methoxychlor	200	0.0004
Toxaphene	4.0	0.002
2,4-D	2.0	0.07
2,4,5-TP (Silvex)	3.0	0.5

**Table 5
Semi-Volatile Organic Compounds**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
Acenaphthene	30	2.1
Acenaphthylene	8.0	---
Anthracene	70	10.5
Benzidine	---	1.52×10^{-7}
Benzo (a) anthracene	6.0	---
Benzo (a) pyrene	1.8	0.0002
Benzo (b) fluoranthene	6.0	---
Benzo (b,h,i) perylene	500	---
Benzo (k) fluoranthene	60	---

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**Table 5 (Continued)
Semi-Volatile Organic Compounds**

Parameter	Total Level (mg/kg)	Leachate Level (mg/L)*
Bis (2-ethylhexyl)phthalate	300	0.006
Butylbenzylphthalate	100	7.0
4-Chloroaniline	---	0.14
Bis (2-chloroethyl) ether	---	3.18×10^{-5}
Bis (2-chloroisopropyl) ether	---	1.4
2-Chloronaphthalene	---	2.8
2-Chlorophenol	---	0.175
Chrysene	500	---
Di-n-butylphthalate	---	3.5
Di-n-octylphthalate	500	---
Dibenz (a,h) anthracene	0.6	---
Dibenzofuran	30	---
1,2 Dichlorobenzene	7.0	0.6
1,4 Dichlorobenzene	7.0	0.075
3,3 Dichlorobenzidine	---	7.78×10^{-5}
2,4-Dichlorophenol	1.9	0.105
Diethylphthalate	3.0	28
2,4-Dimethylphenol	---	0.7
2,4-Dinitrophenol	---	0.07
2,4-Dinitrotoluene	---	0.07
Fluoranthene	400	1.4
Fluorene	40	1.4
Hexachlorobenzene	3.0	0.001
Hexachlorocyclopentadiene	---	0.05
Hexachloroethane	30	0.035
Indeno (1,2,3-cd) pyrene	6.0	---
Isophorone	---	7.0
2-Methylnaphthalene	20	---
N-Nitrosos-di-n-propylamine	---	5.0×10^{-6}
N-Nitrosodiphenylamine	---	0.00714
Naphthalene	8.0	---
Nitrobenzene	---	0.0175
4-Nitrophenol	0.5	---
Pentachlorophenol	---	0.001
Phenanthrene	80	---
Phenol	400	21
Pyrene	300	1.05
1,2,4-Trichlorobenzene	20	0.07
2,4,6-Trichlorophenol	---	0.00318
2,4,5-Trichlorophenol	---	3.5

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* Leachability evaluations shall be conducted on a representative sample conducted using the Toxicity Characteristic Leaching Procedure (EPA Method 1311) or the Synthetic Precipitation Leaching Procedure (EPA Method 1312). The maximum leachable concentration may also be calculated using the 20:1 rule (see EPA Method 1311) in lieu of performing TCLP or SPLP analysis. If the maximum leachable concentration is greater than the General Permit leachate criterion for a specific constituent(s), then TCLP or SPLP analysis shall be performed to determine actual leachate levels for those constituent(s).

The determination of compliance with Tables 1 through 5 may be based on the 90 percent upper confidence level for each metal or the 80 percent confidence interval for pH using the Test Methods for Evaluating Solid Waste (EPA SW-846) as guidance for the statistical treatment of data.

3.
 - a. Except for the wastes approved for blending in Condition 1 of this general permit, the processing by blending of dewatered dredge waste with crushed construction and/or demolition waste is not authorized under this general permit.
 - b. The dewatered dredge waste or dredge-derived material shall not be used as a valley fill material; to fill open pits from coal mining or other fills; or to level an area or bring an area to grade where a construction activity is not completed promptly after the placement of the dredge waste or dredge derived material.
 - c. The dewatered dredge waste or dredge-derived material shall not be used in the creation or restoration of a wetland, aquatic or island habitat unless an approval, a permit or other applicable requirements, if appropriate, under Section 401 of the Federal Water Pollution Control Act (33 U.S.C.A. §1341 (a)) and/or the Dam Safety and Encroachments Act (32 P.S. §§693.1 – 693.27) is obtained or met.
 - d. The dewatered dredge waste or dredge-derived material shall not be either sold, given away or otherwise distributed for residential use.
4. The dewatered dredge waste or dredge-derived material that does not meet the requirements as specified in Condition 2 of this general permit shall be managed properly at a permitted disposal facility or may be beneficially used at locations outside the Commonwealth provided the dewatered dredge waste or dredge-derived material is authorized for beneficial use by the State approving authority.
5. In compliance with the requirements specified in Condition 2 of this general permit, samples of the dewatered dredge waste or dredge-derived material shall be collected and analyzed as follows:
 - a. The permittee shall collect representative samples of the dewatered dredge waste or dredge-derived material and analyze for the total (mg/kg) and leachable (mg/L) levels for each constituent listed in Tables 1 through 5 of Condition 2 of this general permit.

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- b. For each new source of dredge waste other than from the sources described in the application intended for beneficial use, the permittee shall submit an analysis of representative samples of the dredge waste to the Department (See address in Condition 11), by certified mail for all parameters listed in Tables 1 through 5 of Condition 2 no less than 15 working days prior to acceptance and beneficial use of the dredge waste. The permittee may beneficially use the dewatered dredge, from a new source, in accordance with the conditions of this permit after the aforementioned fifteen-day period unless otherwise instructed by the Department.
- c. The chemical analysis required in this Condition shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act, Act of 2002, No. 25.

Representative sampling is one of the most difficult aspects of monitoring. To obtain a representative sample of the dewatered dredge waste or dredge-derived material, the samples must be taken from the correct locations and represent the entire amount of dewatered dredge waste or dredge-derived material. In the batch process, more than one sample is usually necessary to accurately represent a particular batch of the dewatered dredge waste or dredge-derived material or a storage pile of dredge material.

The key is to obtain a representative sample. In general, the more samples taken, the greater the chance that the sampling results will be representative of the dewatered dredge waste or dredge-derived material and because the pollutant limits pertain to the quality of the dewatered dredge waste or dredge-derived material that will be beneficially used, samples must be collected after the final stage of the dewatered dredge waste or dredge-derived material generation process and prior to storage. Should knowledge of the dewatered dredge waste or dredge-derived material, visual observations, or analytical results indicate variability in the quality of the dewatered dredge waste or dredge-derived material, more frequent testing shall be conducted.

- 6. All activities conducted under the authorization granted in this general permit shall be performed in accordance with the permittee's application. Except to the extent the permit states otherwise, the permittee shall utilize the dewatered dredge waste or dredge-derived material as described in the permit application.
- 7. The processing, storage and transportation of dewatered dredge waste or dredge-derived material shall be in a manner which does not create a nuisance or be harmful to the public health, safety or the environment and shall comply with the requirements of Title 25 Pa Code, Chapter 299 (relating to Storage and Transportation of Residual Waste).
- 8. Equipment used for the processing, storage and transportation of the waste-derived materials, dewatered dredge waste or dredge-derived material shall be maintained in good operating condition. Weekly inspections of each storage area

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and its surrounding environs are to be conducted to determine stability, and for evidence of failure.

9. The permittee shall immediately notify the Department, in writing, of any changes in: the name, address, owners, operators and/or responsible officials of the company; changes in land ownership or the right to process or beneficially use dewatered dredge waste or dredge-derived material on the land occupied; the physical or chemical characteristics of the dewatered dredge waste or dredge-derived material; the processes which generate the dewatered dredge waste or dredge-derived material; and the change in status of any permit issued by the Department or federal government under the environmental protection acts.
10.
 - a. The permittee shall maintain records to demonstrate that dewatered dredge waste or dredge-derived material, from each source, accepted for beneficial use meets the concentration limits listed in Tables 1 through 5 of Condition 2 of this general permit.
 - b. The permittee shall maintain records of waste-derived material, from each source, to demonstrate that:
 1. The waste-derived material, accepted for blending with the dewatered dredge waste, meets the concentration limits listed in Tables 1 through 5 of Condition 2 of this general permit;
 2. The waste-derived materials accepted for blending with the dewatered dredge waste have been determined to be co-products as defined in §287.1 (Definitions) and in accordance with §287.8 (Coproduct Determination) of the Residual Waste Management Regulations; or
 3. The waste-derived material accepted for blending with the dewatered dredge waste is authorized, by the Department, for beneficial use under an existing general permit. A copy of the existing general permit shall be provided with the annual report as required in Condition 11 of this general permit.
 - c. The permittee shall maintain records of rejected, unacceptable and unauthorized wastes that are disposed from the facility. The records shall include the name and address of the disposal location, date of disposal, volume or weight of the waste that is disposed.

The records required in this Condition shall be retained at the facility for a minimum of 5 years and made available to the Department upon request.

11. Persons operating under the provisions of this general permit shall submit to the Department's Bureau of Land Recycling and Waste Management, Division of Municipal and Residual Waste, P.O. Box 8472, Harrisburg, PA 17105-8472 and the appropriate Department Regional Office, an annual report on the beneficial use activities conducted under this permit within thirty (30) days after the anniversary

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date of this approval. This report shall include the information required in Conditions 2, 4, 5 and 10 and is to include: a summary of the weight or volume of the dewatered dredge waste or dredge-derived material used for beneficial purposes during the last year, changes in location of beneficial use, and a “total” analysis (mg/kg) and “leachability” analysis (mg/L) of the dewatered dredge waste or dredge-derived material for all parameters listed in Tables 1 through 5 of Condition 2 of this general permit. This analysis data must be from representative sample(s) of the dewatered dredge waste or dredge-derived material analyzed within the past six (6) months.

12. The permittee shall comply with the fugitive emissions regulations under 25 Pa. Code, Chapter 123 (Standards for Contaminants) issued under the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, 35 P.S. §4005 and shall comply with all the applicable provisions of the Fugitive Emissions §§123.1 and 123.2.
13. Nothing in this permit shall be construed to supersede, amend, or authorize a violation of any of the provisions of any valid and applicable local law, ordinance, or regulations, providing that said local law, ordinance, or regulations is not preempted by the Solid Waste Management Act, 35 P.S. §6018.101 et seq. and the Municipal Waste Planning, Recycling and Waste Reduction Act of 1989, 53 P.S. §4000.101 et seq.
14. As a condition of this general permit and of the permittee’s authority to conduct the activities authorized by this permit, the permittee hereby authorizes and consents to allow authorized employees or agents of the Department, without advance notice or search warrant, upon presentation of appropriate credential and without delay, to have access and to inspect all areas or permittee controlled adjacent areas where solid waste management activities are being, will be, or have been conducted. This authorization and consent shall include consent to collect samples of waste, soils, water, or gases; take photographs; to perform measurements, surveys, and other tests; inspect any monitoring equipment; to inspect the methods of operation; and to inspect and/or copy documents, books, and papers required by the Department to be maintained. (See §§608 and 610 (7) of the Solid Waste Management Act, 35 P.S. §§6018.608 and 6018.610 (7).) This condition in no way limits any other powers granted to the Department under the Solid Waste Management Act.
15. The processing and beneficial use of dewatered dredge waste or dredge-derived material authorized by this permit shall not harm or present a threat of harm to the health, safety or welfare of the people or environment of this Commonwealth. The Department may:
 - a. Modify, suspend, revoke and reissue the authorization granted in this permit if the permittee cannot comply with the conditions of this general permit or if the authorized activities cannot be adequately regulated under the conditions of this general permit.

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- b. Require an individual permit be obtained if it deems necessary to prevent harm or the threat of harm to the public health, and the environment.
 - c. Require an individual permit if the permittee does not comply with the conditions of this general permit or is conducting an activity that harms or presents a threat of harm to the health, safety, or welfare of the people or the environment of this Commonwealth.
16. Persons or municipalities that propose to operate under the terms and conditions of this general permit after the date of permit issuance must obtain a "Determination of Applicability" from the Department's Bureau of Land Recycling and Waste Management, Division of Municipal and Residual Waste (See address in Condition 11). No activities shall commence unless specifically authorized by the Department in writing.

At a minimum, the following information must be provided on forms available from the Department's Bureau of Land Recycling and Waste Management:

- a. Name and street address of the applicant.
- b. Name and street address of facility where the dewatered dredge waste will be processed and the dredge-derived material will be produced.
- c. (i) A description of each commercial product, waste-derived material, or waste type admixture that will be blended with the dewatered dredge to produce the dredge-derived material.

(ii) Evidence that the processing of dewatered dredge material with other waste is conducted at a processing facility permitted by the Department under the procedures and requirements of the Solid Waste Management Act, 35 P.S. §6018.101 et seq. and regulations promulgated thereunder.
- d. A chemical and physical analysis, and description of the dewatered dredge waste or dredge-derived material which fully characterizes its composition and properties; the dewatered dredge process; and a plan for screening, managing and rejecting incoming dewatered dredge waste. The chemical analysis shall be performed by a laboratory accredited or registered for accreditation under the Pennsylvania Environmental Laboratory Accreditation Act, Act of 2002, No.25.
- e. Name and location of each: (1) source of commercial product, (2) generator of the waste-derived material, (3) dewatered dredge waste or (4) dredge-derived material.
- f. An evaluation plan for sampling, testing and monitoring new sources of dewatered dredge waste which includes procedures for managing rejected dredge material received at the facility.

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- g. A description of the method of processing that produces the dredge-derived material.
- h. A description of the beneficial use of the dewatered dredge or dredge-derived material.
- i. Number and title of the general permit.
- j. Evidence the dewatered dredge waste or dredge-derived material is consistent with the general permit.
- k. Signed and notarized statement by the person operating the facility which states that the person accepts all conditions of this general permit.
- l. An application fee in the amount required under §287.642 (b) of the Residual Waste Regulations made payable to the “Commonwealth of Pennsylvania”.
- m. Proof that copies of the application have been submitted to each municipality, county, county planning agency and county health department, if one exists, in which beneficial use activities are or will be located.
- n. Proof that the applicant has legal right to enter the land and operate the facilities approved under this permit.
- o. An irrevocable written consent from the landowner giving the Department permission to enter upon land where the applicant will be conducting waste management activities.
- p. Information that identifies the applicant (i.e., individual corporation, partnership, government agency, association, etc.), including the names and addresses of every officer that has a beneficial interest in or otherwise controls the operation of the company.
- q. A list of all previous permits or licenses issued by the Department or federal government under the environmental protection acts; the date issued, status and compliance history concerning environmental protection acts.
- r. A copy of the facility’s Preparedness, Prevention and Contingency Plan (PPC) which is consistent with the Department’s most recent guidelines for the development and implementation of PPC plans.
- s. Proof that independent contractors retained by the permittee to perform any activities authorized under this permit are in compliance with the Department’s regulations as required in Condition 17.
- t. Total amount of the: (1) commercial products, (2) waste-derived materials, (3) dewatered dredge waste to be processed, and (4) dredge-derived material to be produced, beneficially used and stored.

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- u. A map clearly showing the location of the processing facility to be operated by the applicant under this general permit, including the following:
 - 1. Boundaries and names of present owner(s) of record of land (surface and sub-surface), including easements, rights-of-way, and other property interests for the proposed permit area and adjacent properties.
 - 2. Boundaries of land within the proposed permit area; description of title, deed, or usage restrictions.
 - 3. Public and private water supplies within ½ mile radius of facility.
 - 4. Location of access roads (include slopes, grades, dimensions) and gates in relation to public and private roads, wells, and property lines.
 - 5. Location of the processing and storage areas.
 - 6. Rights-of-way, within 300 feet of the facility, for high-tension power lines, pipelines, railroads, public and private roads, buildings (school, dwelling, etc.) currently in use.
 - 7. 100-year flood plain.
 - 9. All utilities installed at the facility (electrical, gas, water, sewer, telephone, etc.).
 - v. Additional information the Department believes is necessary to make a decision.
17. Any independent contractors or agents retained by the permittee in the completion of processing or production activities authorized under this permit, shall be subject to a compliance history review by the Department prior to performance of any activities, as specified by the Solid Waste Management Act of 1980.
18. Failure of measures herein approved to perform as intended, or as designed, or in compliance with the applicable laws, rules, and regulations and terms and conditions of this permit, for any reason, shall be grounds for the revocation or suspension of the permittee's approval to operate under this general permit.
19. Except for the wastes approved for blending in Condition 1 of this general permit, no hazardous waste, municipal waste, special handling waste, and other residual wastes may be mixed and/or stored or beneficially used with the dewatered dredge waste or dredge derived material.
20. Runoff from the waste-derived materials, dewatered dredge waste and/or dredge-derived material staging, processing and storage areas shall not cause surface water pollution or groundwater degradation and shall be managed in accordance with The Clean Streams Law and regulations promulgated thereunder.

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21. This permit does not authorize and shall not be construed as an approval to discharge any industrial wastes, wastewater, leachate or runoff from areas where solid waste management activities are conducted to the waters of the Commonwealth.
22. Any person operating under the provisions of this general permit must notify the Department, in writing, if the processing facility is relocated or if new location(s) are to be included under this general permit. At least thirty (30) days prior to a permittee operating at a new location, two (2) copies of the information as required in: a, b, c, d, e, f, m, n, o, p, q, r, s, t and u of Condition 16 of this general permit must be provided to the Department (See address in Condition 11), for review and approval.
23. Upon cessation of operations or by the expiration date of this general permit or unless extended by the Department in writing, the permittee shall remove any remaining dewatered dredge waste or dredge-derived material and any other residual wastes or other materials which contain or have been contaminated by the dewatered dredge waste or dredge-derived material and shall provide for the processing and disposal of the waste or material in accordance with the Solid Waste Management Act, the environmental protection acts and the regulations promulgated thereunder.
24. If the site for which this general permit applies has, or is undergoing remediation pursuant to the Department's Land Recycling Program, the permittee is responsible to ensure that remedial actions on the property will not be adversely impacted by the construction authorized under this general permit. Remedial actions may have included the use of institutional and/or engineering controls to prevent exposure to or mitigation of contaminants which remain in soil and/or groundwater at the site. Any earth disturbance or development activities at the site must ensure that such engineering and institutional controls remain intact and effective.

APPENDIX A

American Society of Testing and Material (ASTM) Standards

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- (a) D 693 - Standard Specification for Crushed Aggregate for Macadam Pavements.
- (b) D 698 - Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)).
- (c) D 1194 - Standard Test Method for Bearing Capacity of Soil for Static Load and Spread Footings.
- (d) D 1241 - Standard Specification for Materials for Soil-Aggregate Sub-Base, Base and Surface Courses.
- (e) D 1556 - Standard Test Methods for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
- (f) D 1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)).
- (g) D 2167 - Standard Test Methods for Density and Unit Weight of Soil in Place by the Rubber Balloon Method.
- (h) D 2435 - Standard Test Methods for One-Dimensional Consolidation Properties of Soil.
- (i) D 2922 - Standard Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Method.
- (j) D 2937 - Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method.
- (k) D 3017 - Standard Test Methods for Water Content of Soil and Rock in Place by Nuclear Method.