

SECTION I

**Standard
Facility
Conditions**

Green Globe, LLC

**CGS Section 22a-454 Permit to Treat Connecticut Regulated and
Hazardous Wastes
Mobile
Treatment
Units**

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SECTION I.
STANDARD FACILITY CONDITIONS

A. DESIGN AND OPERATION OF THE FACILITY

1. The terms and conditions of this Permit shall apply to each Site at which the Permittee conducts its operations pursuant to this Permit. The Permittee shall ensure that its operations are conducted in accordance with this Permit and attachments and all equipment used to conduct activities authorized by this Permit are operated, outfitted and maintained in accordance with the plans, figures and specifications of this Permit. The Permittee shall maintain its operations at each Site in such a manner as to:
 - a. Minimize the possibility of fire, explosion, or any unplanned release of contaminants, including fugitive emissions, to the environment;
 - b. Protect public health, welfare, and safety; and
 - c. Ensure compliance with all applicable provisions of this Permit.
2. The permittee shall ensure that all equipment necessary for proper operations at each Site is installed and maintained in satisfactory operating condition for the term of this Permit.

B. EFFECT OF THE PERMIT

1. Except as is provided in the Regulations of Connecticut State Agencies (“RCSA”) Section 22a-449(c)-110(a)(2) and except for any federally enforceable requirement(s), compliance with this Permit during its term constitutes compliance, for purposes of enforcement, with Connecticut General Statutes (“CGS”) Sections 22a-449(c) and 22a-454. This Permit may be modified, revoked and reissued, or terminated during its term as set forth in RCSA Section 22a-449(c)-110(a)(1), which incorporates by reference Title 40 of the Code of Federal Regulations (“40 CFR”) 270.41, 270.42 and 270.43.
2. The issuance of this Permit does not authorize any injury to persons or property, invasion of other private rights, or any infringement of federal, state and local law or regulations.
3. The Permittee shall make no changes to the specifications and requirements of this Permit, except in accordance with law.
4. To the extent that any term or condition of this Permit is deemed to be inconsistent or in conflict, with any term or condition of any permit of the Commissioner previously issued for the operations authorized herein, including any modifications thereto, or with any data or information contained in the application, or any other documents incorporated by reference in this Permit, the term or condition of this Permit shall control and remain enforceable against the Permittee.
5. The Permittee shall submit for the Commissioner’s review and written approval all necessary documentation supporting any proposed physical/operational upgrades, improvements and/or minor changes in the equipment, their design, the Permittee’s operating practices or any proposed changes to the schedules established in this Permit. The Commissioner may issue a written approval only if, in the Commissioner’s judgement, the proposed physical/operational upgrades, improvements and/or minor changes: (a) are deemed necessary for a better and more efficient operation of the Facility; (b) do not significantly change the nature of the Facility, or its impact on the environment; and (c) do

not warrant the issuance of a permit or authorization pursuant to Section 22a-454 of the CGS.

6. The date of submission to the Commissioner of any document required by this Permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this Permit, including but not limited to, notice of approval or disapproval of any document or other action shall be the date such notice is personally delivered or the date three (3) business days after it is mailed by the Commissioner, whichever is earlier. Any document or action which is due or required on a Saturday, Sunday or a legal state/federal holiday shall be submitted or performed by the next business day thereafter.
7. This Permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material, nor any exclusive privileges, and is further subject to, any and all public and private rights and to any federal, state or local laws or regulations pertinent to the Sites, equipment or activity affected thereby.
8. Nothing in this Permit shall affect the Commissioner's authority to institute any proceeding or to take any actions to prevent violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law. Violation of any provision of this Permit is subject to enforcement action pursuant, but not limited, to Sections 22a-6, 22a-131, 22a-225 and 22a-226 of the CGS.
9. Nothing in this Permit shall relieve the Permittee of other obligations under applicable federal, state and local laws.

C. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby.

D. CONFIDENTIAL INFORMATION

If the Permittee wishes to claim that any information required to be submitted by this Permit contains or constitutes a trade secret and should be considered confidential information in accordance with CGS Section 1-210(b)(5), the Permittee shall provide written justification to the Commissioner for making such claim, prior to the submission of such information.

E. DUTIES AND REQUIREMENTS

1. Duty to Comply. The Permittee shall comply with all the conditions of this Permit. The Permittee need not comply with the conditions of this Permit to the extent and for the duration such noncompliance is explicitly authorized in writing by the Commissioner. Noncompliance by the Permittee with the terms of this Permit, except under the terms of a written authorization from the Commissioner, shall constitute a violation of this Permit and any applicable laws or regulations and is grounds for enforcement action, for permit termination, revocation and reissuance, or denial of a permit renewal.

Unless superseded by one or more stringent provisions in this Permit, when treating material subject to RCSA Sections, 22a-449(c)-100 et. seq., incorporating by reference 40 CFR 260 through 279, the Permittee shall comply with all of the applicable requirements therein.

2. Duty to Reapply. If the Permittee wishes to continue engaging in an activity authorized by this Permit after the expiration date of this Permit, the Permittee shall apply for renewal of this Permit in accordance with RCSA Sections 22a-3a-5, CGS 22a-6j and any other applicable law.
3. Need to Halt or Reduce Activity a Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce any activity authorized by this Permit in order to maintain compliance with the conditions of this Permit.
4. Duty to Mitigate. The Permittee shall take all reasonable steps to minimize or correct any adverse impact on human health or the environment resulting from any release or non-compliance with this Permit.
5. Proper Operation and Maintenance. The Permittee shall at all times properly operate and maintain all equipment for treatment (and related appurtenances) installed or used by the Permittee to achieve compliance with this Permit. Proper operation and maintenance, at a minimum, includes effective performance, adequate funding, adequate operator staffing and training, and adequate analytical data, including appropriate quality assurance procedures. This provision requires the operation of back-up, auxiliary equipment or similar systems only when necessary to achieve compliance with the conditions of this Permit.
6. Permit Actions. This Permit may be modified, revoked and reissued, or terminated in accordance with all applicable law, including but not limited to, CGS Section 22a-6g, 6h, and RCSA Section 22a-3a-5. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
7. Duty to Provide Information. The Permittee shall for the life of this Permit, provide to the Department notification within thirty (30) Days of any changes in the information provided as part or in support of the application on which this Permit was based. Any inaccuracies found in the information submitted by the Permittee may result in revocation, reissuance, modification or denial of a renewal of this Permit and civil or criminal enforcement actions.

The Permittee shall furnish to the Commissioner, within a timeframe specified by the Commissioner, any information which the Commissioner may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit or to determine compliance with this Permit. The Permittee shall also furnish to the Commissioner, upon request, copies of records required to be maintained by the Permittee pursuant to this Permit.

8. Signatory requirements. All reports or information submitted to the Commissioner by the Permittee pursuant to this Permit shall be signed by the Permittee or a duly authorized representative thereof and shall include the following certification:

"I have personally examined and am familiar with the information submitted in this document and all attachments hereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

9. Inspection and Entry. The Permittee shall allow the Commissioner or an authorized representative, upon the presentation of credentials and other documents as may be required by law to, at reasonable times:

- a. Enter any location where an activity that is regulated by this Permit is conducted, or where records are required to be maintained pursuant to the conditions of this Permit;
- b. Have access to and copy any records that are required to be maintained pursuant to the conditions of this Permit;
- c. Inspect any Site, equipment (including monitoring and control equipment), practices, or operations regulated or required by this Permit; and

Sample or monitor for the purpose of ascertaining compliance with this Permit, any relevant substances or parameters at any Site.

10. Reporting Requirements.

- a. Unless otherwise specified in writing by the Commissioner, any report required to be submitted under this Permit shall be directed to:

Solid Waste Program
Waste Engineering and Enforcement Division
Bureau of Materials Management and Compliance Assurance
Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106-5127

Or via email to DEEP.Solid&HazWasteReports@ct.gov

11. Anticipated Noncompliance. The Permittee shall give as much advance written notice as possible to the Commissioner of any planned changes in the Facility or activity, which may result in noncompliance with any requirement of this Permit.

12. Other Noncompliance. The Permittee shall report all instances of noncompliance with this Permit not otherwise required to be reported by this Permit to the Commissioner along with any other required monitoring report, no later than thirty (30) Days from the date the

Permittee is aware, or reasonably should have been aware, of any such noncompliance.

13. Compliance Schedules. Any submission required pursuant to this Permit shall be submitted no later than fourteen (14) Days following each scheduled date as specified in this Permit except where otherwise provided for in this Permit, or as otherwise specified in writing by the Commissioner.

14. Emergency Incident Reporting.

- i. The Permittee or designee shall verbally report to the Commissioner any emergency incident (explosion, accident, fire, release or other significant disruptive occurrence) immediately but no later than twenty-four (24) hours after the emergency incident. Such notification shall be: (i) immediately conveyed to the Commissioner using the 24-hour emergency response number (860) 424-3338 or the alternate number (860) 424-3333 and in no event later than twenty-four (24) hours after the emergency incident; (ii) reported to the Solid Waste Program in the Waste Engineering and Enforcement Division of the Bureau of Materials Management and Compliance Assurance by phone at (860) 424-3366, or at another current publicly published number for the Solid Waste Program, or by email at DEEP.WEEDNotification@ct.gov (iii) followed by a written report no later than the fifth business day after the emergency incident detailing the cause and effect of the incident, remedial steps taken and emergency backup used or proposed to be implemented; and (iv) recorded in a log of emergency incidents. In addition to the notification requirements above, the Permittee shall comply with all other applicable reporting or notification requirements regarding the emergency incident including but not limited to, reporting required by Section 22a-450 of the CGS.

The report to the Commissioner shall include:

- A) Name, address, and telephone number of the Permittee;
 - B) Name, address, and telephone number of the Site;
 - C) Date, time and type of incident;
 - D) Description of the occurrence and its cause;
 - E) Name and quantity of Waste(s) or constituents thereof involved;
 - F) The extent of injuries, if any;
 - G) An assessment of actual or potential hazards to human health or the environment;
 - H) Estimated quantity and disposition of recovered Waste that resulted from the incident;
 - I) All information concerning the release of any Waste or Waste constituents thereof that may cause an endangerment to public drinking water supplies; and
 - J) All information concerning a release or discharge of Waste or Waste constituents, or of a fire or explosion at the Facility, which could threaten human health or the environment.
- ii. A written submission shall also be provided within five (5) Days from the time the Permittee becomes aware of the circumstances described in

subdivision i. above. The written submission shall contain a description of the incident and its cause; the duration of the incident including exact dates and times, if the result of the incident has been abated, and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the incident. The Permittee shall maintain in the operating record of its Facility a copy of all such written reports. The Commissioner may waive the five (5) day written notice requirement in favor of a written report within fifteen (15) days of any incident requiring reporting.

iii. Nothing in this section shall effect or relieve the Permittee of its obligations under CGS Sections 22a-6u and 22a-450.

15. Other Information. When the Permittee becomes aware that it failed to submit any relevant facts or information or submitted incorrect information in a permit application, report or other document provided to the Commissioner on which this Permit is based or pursuant to this Permit, the Permittee shall submit such relevant facts or correct information to the Commissioner within thirty (30) Days of becoming aware of such failure or incorrect information.
16. Computation of Time. The computation of time periods set forth in this Permit shall be consistent with Section 22a-3a-2(d) of the RCSA.
17. Transfers. This Permit is not transferable to any person without advanced written authorization of the Commissioner, who may request whatever information deemed necessary regarding the potential transferee. Before any such transfer, the Permittee and any proposed transferee shall fully comply with the requirements of CGS Section 22a-6o. The Commissioner may require modification or revocation and reissuance of this Permit to change the name of the Permittee and as an incident to any such transfer, incorporate such other requirements as the Commissioner deems necessary.

In advance of transferring ownership or operation of its Facility prior to the termination of this Permit, the Permittee shall notify the prospective new owner or operator in writing of the requirements of this Permit, Section 22a-208a and Section 22a-454 of the CGS 40 CFR 264 through 270 and RCSA Section 22a-449(c)-100 et. al. The Permittee shall provide the prospective new owner or operator with a copy of this Permit.

The Permittee's failure to notify the new Permittee of the requirements of this Permit in no way relieves the new Permittee of the obligations to comply with all applicable regulations.

18. Certification of Submissions. Any document, including but not limited to, any notice, which is required to be submitted to the Commissioner pursuant to this Permit shall be signed by a duly authorized representative of the Permittee, as defined in Section 22a-430-3(b)(2) of the RCSA, and by the individual or individuals responsible for actually preparing such documents, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments hereto, and certify that based on reasonable investigation, including my inquiry of those

individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement in the submitted information may be punishable as a criminal offense.”

Any false statement in any document submitted pursuant to this Permit may be punishable as a criminal offense in accordance with Section 22a-6 of the CGS, pursuant to Section 53a-157 of the CGS, and in accordance with any other applicable statute.

19. Additional Requirements. Requirements not included in this Permit, which become effective by statute or regulation, and not made specifically inapplicable to activities authorized herein, shall apply to the Permittee’s mobile treatment activities. In the event of any conflict between this Permit and any such requirement, the Permittee shall comply with the more stringent requirement.
20. Federal and State Laws. Nothing in this Permit shall be construed to prohibit any federal, state or political subdivision thereof from imposing any requirements to the extent authorized by law which are more stringent than those imposed by this Permit.

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F. DEFINITIONS

For purposes of this Permit, the following terms shall have the following meanings. Any term not otherwise defined herein shall be defined as that term is defined in 40 Code of Federal Regulations (CFR) 260 and RCSA Section 22a-449(c)-100(c).

1. “Analytical detection limit” means "analytical detection limit" as defined in Section 22a-133k-1 of the Regulations of Connecticut State Agencies and abbreviated “ADL”.
2. “Area of Contamination” means the designated area at the property at which the Permittee conducts his activities and which encompasses the project site and the staging pile(s).
3. “Asphalt Emulsion” means very fine droplets of asphalt dispersed in water that is stabilized by chemical emulsifying agents.
4. “Beneficial Use” means the use of solid waste in a manufacturing process to make a product or its use as an effective substitute for a commercial product in accordance with CGS Section 22a-209f.
5. “Cement” means a hydraulic cement, such as Portland cement, consisting of hydraulic calcium silicates or aluminates, usually containing one or more forms of calcium sulfates.
6. “Characteristic Wastes” are wastes that pose a sufficient threat through ignitability, corrosivity, reactivity or toxicity to merit regulation as hazardous as described in 40 CFR 261.20.
7. “Chemical Stabilization/Solidification” means the process of mixing polluted/contaminated media, with chemical agents at ambient temperatures wherein the agents chemically react with the polluted/contaminated media reducing the leachability, or to immobilize or otherwise bind the contaminants to such media.
8. “Code of Federal Regulations” or “CFR” is the codification of the general and permanent rules published in the Federal Register by the departments and agencies of the Federal Government.
9. “Commissioner” means the Commissioner of Environmental Protection of the state of Connecticut, or the commissioner’s designee.
10. “Connecticut General Statutes” or “CGS” means the codified Public Acts adopted by the legislative body of the state of Connecticut as law.
11. “Container” as defined in 40 CFR 260.10, means any portable device, in which a waste is stored, transported, treated or otherwise handled.
12. “Contaminants of concern” or “COC” means any contaminant or substance listed in Table II-2 of this Permit or identified in RCSA Section 22a-430-4, Appendix B or D, or Title 40 Code of FR Part 261, Appendix VIII, or 40 CFR 116.4.

13. "Contaminated Media" means polluted-soils, sediments or debris that have been affected by a release of a substance and are subject to waste management regulations.
14. "Curing" means the time necessary to stabilize/solidify contaminated media into a Non-hazardous material.
15. "Debris" means rocks measuring two inches or greater in any direction.
16. "Department" or "DEEP" means the Connecticut Department of Energy and Environmental Protection.
17. "DOT" means the United States Department of Transportation.
18. "Environmental Emergency" means any situation that poses an immediate threat to public safety, health or the environment.
19. "Ex-situ Treatment" means the treatment of excavated Contaminated Media removed from its original location and cleaned on-site or off-site.
20. "Freeboard" means the vertical distance between the top of the berm or dike surrounding the waste staging piles and the surface of the waste contained therein at the level of the pile of waste, which is in contact with the berm or dike.
21. "Gasoline" means a mixture of volatile hydrocarbons suitable for use in a spark-ignited internal combustion engine and having an octane number of at least 60. This includes antiknock, casing head, cracked, high-octane, lead-free, polymer, pyrolysis, reformed, straight-run, and white gasoline.
22. "Generator" or "Co-generator" means any person or persons, by site, whose act or process produces RCRA hazardous waste identified or listed in 40 CFR Part 261 or whose act first causes a RCRA hazardous waste to become subject to RCRA Sections 22a-449(c)-100 through 110 and 22a-449(c)-111.
23. "Hazardous waste" means waste as identified in Section 22a-449(c)-101 of the Regulations of Connecticut State Agencies.
24. "Heavy oils" means Numbers 4 and 6 fuel oil, lubricating oil (turbine, mineral, motor and paraffin), and hydraulic oil.
25. "Inorganic substance" means one or more of the following inorganic substances: arsenic, barium, beryllium, cadmium, chromium, copper, cyanide, lead, mercury, nickel, selenium, silver, thallium, vanadium or zinc.
26. "In-situ Treatment" means treatment of Contaminated Media in the original place of contamination.
27. "Licensed Environmental Professional" means an environmental consultant licensed in accordance with Section 22a-133v of the Connecticut General Statutes.

28. "Light oils" means diesel fuel, Number 2 fuel oil, kerosene, and jet fuels.
29. "Listed Waste" means a waste is determined to be a hazardous waste because it is specifically listed on one of four lists (the F, K, P and U lists) found in title 40 of the Code of Federal Regulations in section 261.
30. "Person" means person as defined in Connecticut General Statutes, Section 22a-2(c).
31. "Permittee" means the person responsible for the overall operation of the regulated mobile treatment unit(s). In this Permit, it shall be Green Globe, LLC or the person to whom this permit is transferred in accordance with law.
32. "Petroleum" means oils or petroleum products, including but not limited to waste oils and distillation products such as gasoline, fuel oils number 1 (kerosene), 2, 4, and 6, diesel and jet fuel, lubricating oil (turbine, mineral, motor and paraffin), hydraulic oil and naphtha. Petroleum is further defined as being refined from crude oil and which may be classified as: (1) gasoline; (2) light oils; (3) heavy oils and lubricating oils; or (4) asphalts and tars.
33. "Polluted sediment" means in-water sediment which has been affected by the release of a substance at a concentration above the laboratory reporting limit for such substance.
34. "Polluted soil" means soil affected by a release of a substance at a concentration above the laboratory reporting limit for such substance.
35. "Pollution" means pollution as defined in Connecticut General Statutes, Section 22a-423.
36. "Process" or "processing" means the screening, crushing and/or sorting of Contaminated Media.
37. "RCRA metals" means metals that are identified in 40 CFR 261.24, specifically: Arsenic; Barium; Cadmium; Chromium; Lead; Mercury; Selenium; and Silver.
38. "RCSA" means the Regulations of Connecticut State Agencies.
39. "Release" means release as defined in Section 22a-133k-1(a) of the Regulations of Connecticut State Agencies ("RCSA").
40. "Remediation Standard Regulations" or "RSRs" means the Regulations of Connecticut State Agencies Sections 22a-133k-1 through 22a-133k-3.
41. "Sediment" means sediment as defined in Regulations of Connecticut State Agencies Section 22a-133k-1(a).
42. "Site" means a property at which the Permittee conducts treatment of Contaminated Media through stabilization and/or solidification activities.

43. "Site Plan" means an engineered drawing at an appropriate scale that provides a clear and detailed representation of all topographical and man-made features at the property on which the Contaminated Media are to be excavated or placed.
44. "Spill" means the release of any oil or petroleum products, chemicals, waste or other materials that may pose a risk to human health or the environment.
45. "Soil" means soil as defined in Regulations of Connecticut State Agencies, Section 22a-133k-1(a).
46. "Solidification" means through the addition of certain additives, Contaminated Media is encapsulated rendering the Contaminated Media impermeable to water. Such additives may include Portland cement, kiln dust and pozzolans such as lime or fly ash.
47. "SPLP" means Synthetic Precipitation Leaching Procedure EPA Method 1312 as set forth in "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, the latest revision, as may be amended. U.S. Environmental Protection Agency, Office of Solid Waste, Washington D.C. 20460.
48. "Stabilization" means through the addition of reagents to Contaminated Media, a chemical reaction results that reduces the leachability of contaminants from such media.
49. "Stabilized/Solidified material" means Contaminated Media that has been stabilized/solidified in accordance with this Permit.
50. "Staging pile" means a stockpile that is used only for the temporary staging and storage of remediation wastes, including hazardous contaminated media, during remedial operations.
51. "Staging" and/or "Storage" means the holding of Contaminated Media, that is non-RCRA Hazardous or not hazardous, at the Site for no longer than one year and for RCRA Hazardous Contaminated Media for no longer than ninety (90) days.
52. "TCLP" means Toxicity Characteristic Leaching Procedure, EPA Method 1311 as set forth in "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", SW-846, the latest revision, as may be amended.
53. "Treatment" or "Treating" means the use of stabilization and/or solidification technology and additives to immobilize contaminants in Contaminated Media, either in-situ or ex-situ, so as to render such media non-hazardous, less hazardous, safer to transport, beneficially reusable in accordance with law or for removal from the project site for appropriate disposal.
54. "Waste petroleum" means Petroleum, as defined in this Permit, that is no longer suitable for the purpose for which it was manufactured due to the presence of impurities and/or a loss of original properties.
55. "Waste stream" means Contaminated Media containing one or more organic and or inorganic substances.

SECTION II
Permitted
Activities

Green Globe, LLC

CGS Section 22a-454 Permit to Treat Connecticut Regulated and Hazardous
Wastes
Mobile Treatment
Units

Section II – Permitted Activities

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**SECTION II.
PERMITTED ACTIVITIES**

This Permit authorizes only those activities that are explicitly provided for in this permit. As used in this permit, the terms “management” or “treatment” do not and shall not be construed to authorize any activity that is not explicitly authorized by this Permit.

A. TREATMENT ACTIVITIES

1. This Permit authorizes the Permittee to conduct chemical treatment consisting of chemical Stabilization/Solidification of Polluted soil either in-situ or ex-situ, and (2) ex-situ chemical Stabilization/Solidification of Polluted sediment. Section II Figure II-A *Green Globe Project Flow Chart*, represents a typical process flow for Stabilization/Solidification treatment activities authorized herein.
 - a. Unless otherwise noted, the Permittee shall be limited to Stabilization/Solidification of Polluted Soil containing inorganic and/or organic substances at concentrations that shall not contribute to exceedances of the maximum allowable concentrations of such substances, pursuant to RCSA Section 22a-174-29, during the Stabilization and Solidification processes.

Cyanide levels in Contaminated Media to be treated shall not exceed the industrial/commercial direct expose criterion of 41,000 ppm by weight specified in RCSA Section 22a-133k-1 et seq. (the Remediation Standard Regulations)
 - c. Contaminated Media are processed at temperatures above 32° F.
 - d. The Permittee shall ensure that any excavation and Stabilization/Solidification of Polluted sediment is performed without spreading the contaminants from the dredge location or treatment location to downgradient or adjacent locations that are not contaminated with similar constituents at similar concentrations.
2.
 - a. The Permittee shall Stabilize/Solidify Polluted soil through chemical Treatment by the addition of chemical reagents approved by the Department. Chemical reagents authorized by this Permit, for use by the Permittee to chemically Stabilize/Solidify Contaminated Media in accordance with this Permit are identified in Table II-1, *Chemical Additives for the Solidification/Stabilization of Contaminated Media*, unless otherwise authorized by the Commissioner.
 - b. Without obtaining the appropriate authorization(s) or permit(s), the Permittee shall not treat Contaminated Media through the addition of chemical reagents that may generate hazardous air pollutants (“HAPs”), as byproducts of reaction during the process, where such HAPs may contribute to exceedances of the maximum allowable concentrations of HAPs pursuant to RCSA Section 22a-174-29.

B. TREATMENT PROCESS

The Permittee shall perform Stabilization/Solidification processes either ex-situ or in-situ. Figure II-1 represents a flow diagram for Ex-Situ Treatment processes and Figure II-2 represents a flow diagram for In-Situ Treatment processes. The Permittee is authorized to excavate, treat, Process and store Contaminated Media at Project Site(s) in accordance with the following:

1. Ex-Situ Stabilization/Solidification of Contaminated Media. The Permittee shall perform ex-situ Stabilization/Solidification of Contaminated Media as described below.
 - a. Ex-Situ Polluted Soil Treatment Process.
 - i. Pre-Treatment or Processing Area. The Permittee shall Process, as may be needed, Polluted soil prior to chemical treatment only in area(s) designated for such Processing. Polluted soil shall be screened, in the designated pre-treatment area(s), to remove any non-recyclable material, that would adversely affect the quality of the product, including but not limited to tattered polyethylene, tires, wood, etc.
 - ii. Treatment. The Permittee shall treat Polluted soil using only those chemical additives listed in Table II-1 of this Permit, *Chemical Additives for the Solidification/Stabilization of Contaminated Media* unless otherwise approved in writing by the Commissioner.
 - iii. Post-Treatment Staging Piles. The Permittee shall place all treated material in stockpile(s) or into designated roll-off Container(s).
 - iv. Final Process. The Permittee may use clean aggregate (Gravel, Sand, Concrete, Asphalt) and asphaltic emulsions, Portland cement, or combinations of thereof, to convert the treated material and aggregate into a desired product.
 - b. Ex-Situ Contaminated Sediments Treatment Process. The Permittee shall Stabilize/Solidify Contaminated sediments ex-situ in accordance with the following:
 - i. Excavation of Contaminated Sediments.
 - (A) The Permittee shall excavate any Contaminated sediments in a manner that prevents the spread of contaminants from the dredge location to downgradient or adjacent locations that are not contaminated with similar constituents at similar concentrations. After excavation, Contaminated sediments shall be allowed to dewater, then screened or crushed to homogenize the Contaminated sediments prior to treatment and authorization as may be required;

Commented [BM1]: Add "project" to Sites to ensure we are clear that these are mobile treat sites. This standard should be in COT pUrtech

Commented [BM2]: Stopped here 8.14.2024 10AM

Commented [BM3]: What does this mean? If no other contextual information may strike.

(B) The Permittee shall not discharge any contaminated water from the dewatering process without proper treatment;

(C) The Permittee shall ensure that the chemical composition of the treatment location is not altered as a result of the removal of Contaminated sediment.

ii. Treatment. Upon homogenization of the Contaminated sediments, the Contaminated sediments shall be mixed in a self-contained commercial mobile treatment unit with solid or liquid chemical additives. The Permittee shall treat Polluted Soil using only those chemical additives listed in Table II-1 of this Permit, *Chemical Additives for the Solidification/Stabilization of Contaminated Media*, unless otherwise approved in writing by the Commissioner.

2. In-Situ Stabilization/Solidification of Polluted Soil. The Permittee shall perform in-situ Stabilization/Solidification of Polluted soil by spreading, injecting, or spraying chemical additives directly on the Polluted Soil. The Permittee shall treat Polluted Soil using only those chemical additives listed in Table II-1 of this Permit, *Chemical Additives for the Solidification/Stabilization of Contaminated Media*, unless otherwise approved in writing by the Commissioner. Figures II-3.A. and B. of this Permit represent Typical In-Situ Plan Layouts.

Commented [BM4]: Keeping polluted soil.

C. CURING TIME

The Permittee shall ensure that any treated materials (e.g. soil/sediment) are segregated from untreated Contaminated Media and completely cured prior to beneficial use or appropriate off-site disposal. During the curing time, the treated material shall be covered at all times when material is not actively being added to or removed from the curing location.

D. TREATMENT CAPACITY

The Permittee shall not process more than 500 tons per hour of Contaminated Media.

E. MAXIMUM STAGING VOLUME

The Permittee shall not stage, at a project Site, volumes of treated soil/sediment in excess of fifty thousand (50,000) cubic yards (or the equivalent of 75,000 tons (Assuming 1.5 tons/cy)); untreated Contaminated media shall be limited to no more than 40,000 tons

F. STABILIZATION/SOLIDIFICATION EQUIPMENT

1. Ex-Situ Stabilization/Solidification Equipment for Contaminated Media. The Permittee shall use the following equipment to Stabilize/Solidify Contaminated Media ex-situ at a project Site:

- a. A fully contained mobile pugmill unit, specifically:
 - i. Multi-trailer unit with design capacity of 500 tons/hr 40,000 tons/day
 - ii. a Port-A-Pug Full Assembly model, manufactured by Excel Midland Machinery Company; with design capacity of 200 tons/hr, 1,600 tons/day
 - iii. Truck mounted pugmill with designed capacity of 20 tons/hr, 160 tons/day
 - iv. Skid mounted pugmill with designed capacity of 10 ton/hr 80 tons/day
 - v. GIT mixer with designed capacity of 300 tons/hr, 2,100 tons/day or their or their equivalent as approved in writing by the Commissioner.

- b. Ancillary equipment including a conveyor, a partially enclosed screener, portable silo, bulk chemical trailers, rock crusher, roll-off dumpsters, and/or other Containers used in the Stabilization process or for treated material storage; and

- c. Air Pollution Control Equipment that includes:
 - i. A baghouse, with a capacity of 1,000 CFM or its equivalent as approved in writing by the Commissioner, appropriately sized and suitable to handle the air flow through the fully contained and enclosed Stabilization equipment to control particulate matter.
 - ii. A carbon adsorption unit, with a capacity of 1,000 CFM, or its equivalent as approved in writing by the Commissioner, appropriately sized and suitable to handle the air flow through the fully contained and enclosed Stabilization equipment to control volatile organic compounds.
 - iii. The baghouse and carbon adsorption unit shall be in good working order and inspected prior to start-up of the daily Stabilization operations to ensure that breakthrough does not occur.
 - i. Heavy equipment including front-end loaders, excavators and dump trucks that have been retrofitted with air emission controls to minimize particulate emissions.
 - ii. The Permittee shall establish a containment area for the Stabilization/Solidification equipment as described above to minimize contact with precipitation and limit the potential for stormwater run-on and run-off.

2. In-Situ Stabilization/Solidification Equipment of Polluted Soil. The Permittee shall use the following equipment to Stabilize/Solidify Polluted soil in-situ:
 - a. Heavy equipment including front-end loaders, excavators, superficial tillers, plows, augers and dump trucks;
 - b. Liquid treatment chemical dispersion equipment including dispersers, pumps, hoses, bulk tanks and tank trucks; and

- c. Solid treatment chemical dispersion equipment including spreaders, casters and rakes.

G. WASTE ANALYSIS PLAN AND ACCEPTANCE PROTOCOL

The Waste Analysis Plan (“WAP”) details the process for the evaluation of the physical and chemical properties of Contaminated Media proposed for treatment in order to safely and effectively treat every batch of Polluted soil. In addition to the requirements of the WAP, the Permittee shall comply with the following:

1. The Permittee shall obtain and review an evaluation of Contaminated Media at each Site to identify the Contaminants of Concern (“COC”). At a minimum, the evaluation shall include analytical data for each area of concern to be treated at the project Site. The Permittee shall complete the *Waste Product Survey* and *Representative Sample Certification* forms incorporated herein as Appendix II-B of this Permit prior to performing any Stabilization/Solidification.
Polluted soil.
2. Prior to Treating any Polluted Soil the Permittee shall analyze a representative sample of the Polluted Soil from each area of concern at a project Site, to ensure that the materials to be treated conform to the acceptance criteria for all parameters listed in Table II-2 of this Permit, *Identification of the Site Specific Contaminants of Concern (COC)* and Table II-3 of this Permit, *Suitability for Stabilization/Solidification*.
3. Sampling shall be performed in accordance with *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, EPA Publication SW-846 and/or methods listed in Table II-3 of this Permit, *Suitability for Stabilization/Solidification*. Sampling equipment shall be decontaminated between each sampling event. The Permittee shall also:
 - a. Not treat any Polluted Soil that fails to meet the acceptance criteria for all parameters specified in Table II-3 of this Permit, *Suitability for Stabilization/Solidification* of this Permit;
 - b. Collect and analyze samples of treated material to ensure the effectiveness of the treatment. At a minimum, the Permittee shall comply with the sampling frequency presented in Table II-4 of this Permit, *Sampling Frequency for Treatability Study for Stabilization and Solidification Process of Contaminated Media*; and comply with the verification parameters presented in Table II-5 of this Permit, *Verification of Stabilized/Solidified Material*;
 - c. Provide a copy of all analytical data results to the customer;
 - d. Make a hazardous waste determination regarding any debris or residues generated from the treatment operations in order to inform the customer of appropriate disposal options; and

- e. Maintain, for each Project Site at which the Permittee provided its services: copies of all analytical data, whether provided to the Permittee by the generator or obtained through the Permittee's analysis of Contaminated Media or treated material; all *Waste Product Surveys* and *Representative Sample Certifications*, identified in the *Waste Analysis Plan* (incorporated as Attachment A of this Permit), pertaining to the treatment project; and any other records pertaining to the Project Site operations and equipment maintenance performed. The Permittee shall maintain this information in the operating record in accordance with Section IV. I and J of this Permit.

H. QUALITY ASSURANCE/QUALITY CONTROL PLAN

The Permittee shall maintain a quality assurance (QA) and quality control (QC) program for all sampling and analysis required by this permit. The QA/QC program shall:

1. Measure the accuracy of all analytical data;
2. Demonstrate the reproducibility of the processes used to obtain such data;
3. Identify the quantity of data necessary to demonstrate the program goals;
4. Ensure that the samples represent actual conditions at the sampling location, considering the original study design, sampling methods, and analytical methods, which are to be used; and
5. Identify the comparability of the data with respect to the following factors: consistency of reporting units, sampling, methods of analysis, and a standardized data format. These factors shall be considered when designing a project study, and the QA/QC procedures shall specify a reviewing process for all data utilizing statistical or other appropriate procedures applicable to data evaluation. The QA/QC plan shall conform to EPA Publication SW-846 or its equivalent.

I. WASTE PROHIBITIONS

In addition to the prohibitions specified in Section II. A. of this Permit, the Permittee shall not treat Contaminated Media that are determined to be unsuitable by any analysis and that exhibit any of the characteristics as identified below:

1. Any Hazardous Waste from specific sources as defined in in 40 CFR 261.32;
2. Any of the following US DOT Hazardous Materials:
 - a. Class 1 Material (Explosives and Shock Sensitive Materials) as defined in 49 CFR 173.50;
 - b. Class 4, Division 4.1 Material (Self-reactive Substances and Solid De-sensitized Explosives);
 - c. Class 4, Division 4.2 Material (Spontaneously Combustible Materials);
 - d. Class 7, Radioactive Materials, as defined in 49 CFR 173.403; and
3. Any PCB Contaminated media at a concentration greater than fifty (50) ppm. Such Contaminated Media shall be treated as PCB waste and disposed of as allowed by TSCA.

Commented [BM5]: Stopped here 8.23.24

Commented [BM6]: Class 4 restrictions added. Was not in RETEK permit.

TABLES
TABLE II-1

CHEMICALS ADDITIVES FOR THE
 SOLIDIFICATION/STABILIZATION
 OF CONTAMINATED MEDIA

Chemical	Physical State	Chemical Designated Use in Solidification/Stabilization (S/S)
Lime	Powder or slurry	pH adjustment, pozzuolanic S/S
Lime kiln dust	Powder or slurry	pH adjustment, pozzuolanic S/S
Cement	Powder or slurry	pH adjustment, pozzuolanic S/S
Cement kiln dust	Powder or slurry	pH adjustment, pozzuolanic S/S
Sodium Hydroxide	Powder or liquid	pH adjustment, hydroxide ion reaction
Sodium Carbonate	Powder or liquid	pH adjustment
Sodium hydro sulfite	Powder or liquid	Sulfite precipitation, Cr reduction
Sodium hydro sulfide	Powder or liquid	Sulfide precipitation
Sodium Bisulfide	Powder or liquid	Sulfide precipitation, reducing agent
Sodium Sulfide	Powder or liquid	Sulfide precipitation
Sodium Borohydride	Powder or liquid	Metal reducing
Trisodium Phosphate	Powder or liquid	Metal reducing
Aluminum Sulfate	Powder or slurry	Coagulation, sulfide precipitation
Ferrous Sulfate	Powder or liquid	Sulfide precipitation, reducing agent
Asphalt Emulsion	Liquid	Solidification/stabilization
PG 64-22 Asphalt	Liquid	Solidification
Sulfuric Acid	Liquid	pH adjustment
Phosphoric Acid	Liquid	pH adjustment
Nitric Acid	Liquid	pH adjustment, oxidizer
Ferric Chloride	Liquid	pH adjustment, coagulant
Sodium hypochlorite	Liquid	Cyanide and organic oxidation
Hydrogen Peroxide	Liquid	Organic and metal oxidation
Potassium Permanganate	Powder or liquid	Organic and metal oxidation
Potassium Persulfate	Powder or liquid	Organic and metal oxidation
Sodium Persulfate	Powder or liquid	Organic and metal oxidation
Commercial	Powder or liquid	Solidification/stabilization

Stabilization/Solidification Agent		
Commercial Oxidants Agent	Liquid	Organic and metal oxidation
Commercial Reducing Agent	Liquid	Organic and metal Reduction

TABLE II-2

Identification of the Site-Specific Contaminants of Concern (COC)

Potential COC Parameters	Analytical Test	Parameter shall be considered A Site-Specific COC unless Analytical Results show:	Additional Information
Inorganic substance(s)	Mass Basis	All test results are below the residential direct exposure criteria for media for such substance. Reference: RCSA 22a-133k.	Certifiable ¹ at virgin chemical sites, except for lead at gasoline sites and for treated material that will be disposed of in a permitted landfill.
Inorganic substance(s)	TCLP Basis or SPLP Basis	All test results are below the ground water protection criteria for GA area. Reference: RCSA 22a-133k.	Certifiable ¹ at virgin chemical sites, except for lead at gasoline sites and for treated material that will be disposed of in a permitted landfill.
Cyanide, Total	Mass Basis	All test results are below the residential direct exposure criteria for media for such substance. Reference: RCSA 22a-133k.	Certifiable ¹ for virgin chemical sites and for treated material that will be disposed of in a permitted landfill.
Aromatic VOC	(8020) Mass Basis	All test results are below the residential direct exposure criteria for media for such substance. Reference: RCSA 22a-133k.	Presumptively present as COC at petroleum sites. Certifiable ¹ for treated material that will be disposed of in a permitted landfill.
Non-Aromatic Volatile Organic Contaminants (VOC's)	(8240) Mass Basis [8010 with certification for other 8240 constituents]	All samples and constituents are below residential direct exposure criteria and below GA goal pollutant mobility criteria. Reference: RCSA 22a-133k.	Certifiable ¹ for residential/light commercial virgin heating oil sites and for treated material that will be disposed of in a permitted landfill. Certifiable except for Chlorinated VOCs (8010) for virgin chemical sites.
Polynuclear Aromatic Hydrocarbons (PAHs)	(8100) Mass Basis	All samples and constituents are below residential direct exposure criteria and below GA goal pollutant mobility criteria. Reference: RCSA 22a-133k.	Certifiable ¹ for virgin chemical sites with light oil or gasoline contamination and without heavy or lube oils and for treated material that will be disposed of in a permitted landfill. Presumptively present as COC at chemical sites with heavy oils.
PCB's and Pesticides	(8080) Mass Basis	The average value of all samples measured of any constituent is < ADL and all samples and constituents are below 2x ADL, provided that the ADL is 2 ppm.	Certifiable ¹ for virgin chemical sites and for treated material that will be disposed of in a permitted landfill.
Semi-Volatile Organic Compounds (s-VOC's) other than PAHs, PCBs, pesticides	(8270) Mass Basis	All samples and constituents are below residential direct exposure criteria and below GA goal pollutant mobility criteria. Reference: RCSA 22a-133k.	Certifiable ¹ for virgin chemical sites and for treated material that will be disposed of in a permitted landfill.
Any petroleum additives not included above, e.g., MTBE, Lead, etc.	Mass Basis	All samples and constituents are below residential direct exposure criteria and below GA goal pollutant mobility criteria. Reference: RCSA 22a-133k.	Certifiable ¹ for virgin chemical sites except for gasoline sites and for treated material that will be disposed of in a permitted landfill.
Total Petroleum Hydrocarbons (TPH)	(418.1) Mass Basis	All test results are below the residential direct exposure criteria for media for such substance. Reference: RCSA 22a-133k.	Presumptively present as COC at petroleum sites. Certifiable ¹ for treated material that will be disposed of in a permitted landfill.

Note: The SW846 analytical test methods specified in the Table I may be substituted for equivalent methods with prior approval from the Commissioner.

¹Certifiable means the absence of such substance may be certified by the generator in accordance with the Waste Certification Documents.

**TABLE III-3
SUITABILITY FOR TREATMENT**

Parameter	Analytical Test Method	Acceptable Limits	Comment
RCRA Hazardous Waste ¹		10 X RCRA characteristic hazardous waste and listed criteria pursuant to Title 40 CFR Parts 261.21 and 261.32	Written certification ² may be substituted for analytical testing for this parameter. This permit allows media stabilization /solidification of polluted medias and sediments which are RCRA hazardous.
PCBs ¹	Mass Basis (8080)	≤ 1400 ppm	PCB analysis is required of media which may contain electric oil, cooling oil, lubricating oil, industrial oil, or other waste oils which may contain PCBs. Otherwise, written certification ² may be substituted only for fuel oil and motor oil for analytical testing for this parameter.
Pesticides	Mass Basis (8080)	Less than or Equal 10X RCRA hazardous waste pursuant to 40 CFR 261.24	Written certification ² may be substituted for analytical testing for this parameter.
Carbon Tetrachloride	TCLPBasis ⁴	< 5 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Chlorobenzene	TCLP Basis ⁴	< 1000 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Chloroform	TCLPBasis ⁴	< 60mg/l	Written certification ² may be substituted for analytical testing for this parameter.
1,4 Dichlorobenzene	TCLP Basis ⁴	< 75 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
1,2 Dichloroethane	TCLPBasis ⁴	< 5 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
1,1 Dichloroethylene	TCLP Basis ⁴	<7 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Hexachloroethane	TCLP Basis ⁴	< 30 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Hexachlorobutadiene	TCLP Basis ⁴	< 5 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Methyl Ethyl Ketone	TCLP Basis ⁴	<2000mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Tetrachloroethylene	TCLP Basis ⁴	<7mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Trichloroethylene	TCLP Basis ⁴	<5 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Vinyl Chloride	TCLP Basis ⁴	<2 mg/l	Written certification ² may be substituted for analytical testing for this parameter.
Radiation		Not regulated by NRC or DOE	Written certification ² may be substituted for testing for this parameter.
Total Cyanides	Mass basis	41,000ppm	Written certification ² may be substituted for testing for this parameter.
Total Halogens	Mass Basis	< 1000 ppm	If the concentration of total halogens exceeds 10 ppm, written certification shall not be substituted for analytical testing on a TCLP basis for the individual chlorinated solvents listed in this table.
Listed Wastes (D), (F), (P), (U)	TCLP Basis ⁴	Less than or equal 10 X RCRA Levels	Written certification ² may be substituted for testing for this parameter.
Benzene	TCLP Basis ⁴	<5 mg/l ⁵	10 X RCRA hazardous waste (D018) limiting value.

Total Petroleum Hydrocarbons (TPH)	Mass Basis (418.1) or (8020)	Gasoline < 20,000 ppm Light Oils <30,000ppm Heavy Oils <40,000 ppm	
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¹ This does not apply to the following inorganic substances at hazardous waste levels: Arsenic (D004), Barium (D005), Cadmium (D006), Chromium (D007), Lead (D008), selenium (D010), and Silver (D011).

² Written certifications shall be made using the Waste Certification Document.

³ Green Globe shall document that polluted medias containing any concentrations of PCB's have not come from a release of materials containing PCB's at a concentration of 50 ppm or greater. Any media with PCB's from a release of a concentration >50 ppm will be treated as a PCB waste and disposed of as allowed by TSCA.

⁴ Mass analysis using a 20 to 1 conversion factor may be substituted for TCLP testing. This applies only if the mass analysis has a sufficiently low analytical detection limit to provide meaningful data.

⁵ This does not apply to polluted medias which are not hazardous wastes pursuant to Title 40CFR 261.4(b)(10).

TABLE II-4

SAMPLING FREQUENCY FOR TREATABILITY STUDY FOR
STABILIZATION AND SOLIDIFICATION PROCESS OF
CONTAMINATED MEDIA

Quantity of Polluted Media	Sampling Requirements Number of Discrete Samples Required Per Analysis
0-50	1
51-200	2
201-600	3
601- 1000	4
1001-4000	4 plus one additional sample for every 200 tons above the initial 1000 tons
>4001	16 plus one additional sample for every 500 tons above the initial 4000tons

Samples may be composited from a maximum contaminated media volume of *1,000 cubic yards*. At least 1 additional media sample shall be taken from the most heavily contaminated area of the stockpiled media, as determined by visual inspection.

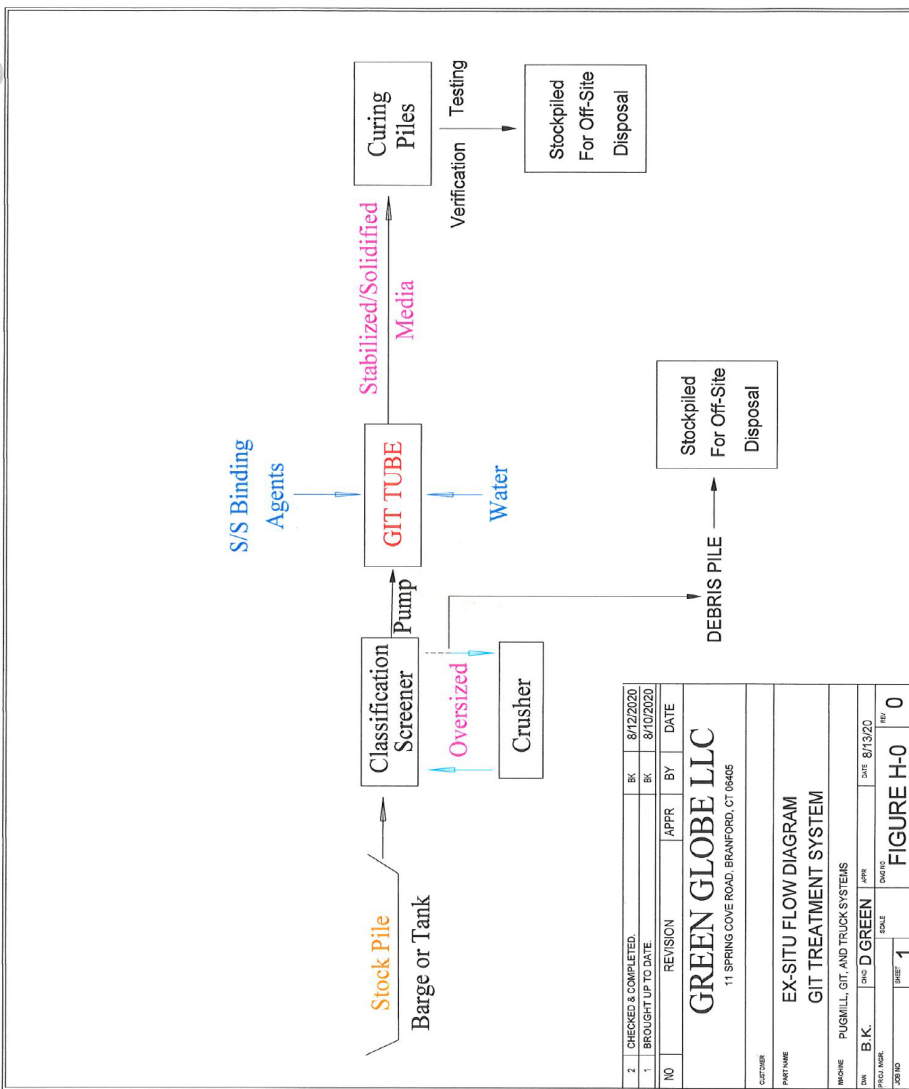
Note: Typical polluted medias range in density from 1.3 to 1.8 tons/cubic yard (Average= 1.5 tons/cubic yard).

TABLE II-5

Verification of Stabilized/Solidified Material

Site Specific COC	Analytical Test Method	Frequency	Additional Comments
Inorganic substance(s): Beryllium Copper Nickel Thallium Vanadium Zinc	TCLP Basis	1 discrete sample/day	
Inorganic substance(s): Arsenic (D004) Barium (D005) Cadmium (D006) Chromium (D007) Lead (D008) Mercury(D009) Selenium (D010) Silver (D011) Listed Hazardous Waste (F), (P), (U)	TCLP Basis	2 discrete samples/day or 1 discrete sample for every 1000 tons of stabilized material OR 1 composite sample per every 1000 tons of stabilized material processed. The composite sample shall be comprised of representative grab samples of stabilized material taken at hourly intervals during production.	RCRA characteristic hazardous waste and treatment efficiency determination for Arsenic (D004), Barium (D005), Cadmium (D006), Chromium (D007), Lead (D008), Mercury(D009), Selenium (D010), and Silver (D011).
Volatile Organic Constituents (VOCs)	TCLP Basis or SPLP	1 discrete sample/day	Includes both Aromatic and Non-Aromatic VOCs
Volatile Organic Constituents (VOCs)	EPA Method 8240	1 discrete sample/day	Only for Polluted Medias containing gasolines and light oils.
Polynuclear Aromatic Hydrocarbons (PAH's)	TCLP Basis	1 discrete sample/day	Only for Polluted Medias containing heavy oils.
Cyanide, Total	TCLP Basis	1 discrete sample/day	
Semi-Volatile Compounds other than PAHs, PCBs, and pesticides	TCLP Basis	1 discrete sample/day	
Any petroleum additives not included above, e.g., MTBE, Lead, etc.	TCLP Basis	1 discrete sample/day	Only for Polluted Medias containing gasolines.
TPH	TCLP Basis	1 discrete sample/day	

Appendix II-A



2	CHECKED & COMPLETED.	BK	8/12/2020	
1	BROUGHT UP TO DATE	BK	8/10/2020	
NO	REVISION	APPR	BY	DATE
GREEN GLOBE LLC 11 SPRING COVE ROAD, BRANFORD, CT 06405				
CLIENT/OWNER EX-SITU FLOW DIAGRAM				
PART/NAME GIT TREATMENT SYSTEM				
PROJECT PUGMILL, GIT, AND TRUCK SYSTEMS				
DESIGNER B.K.	DATE 8/13/20	APPR D.GREEN	DATE 8/13/20	REV 0
DRAWN B.K.	CHECKED D.GREEN	SCALE AS SHOWN	FIGURE H-0	
NO. OF SHEETS 1	SHEET 1			

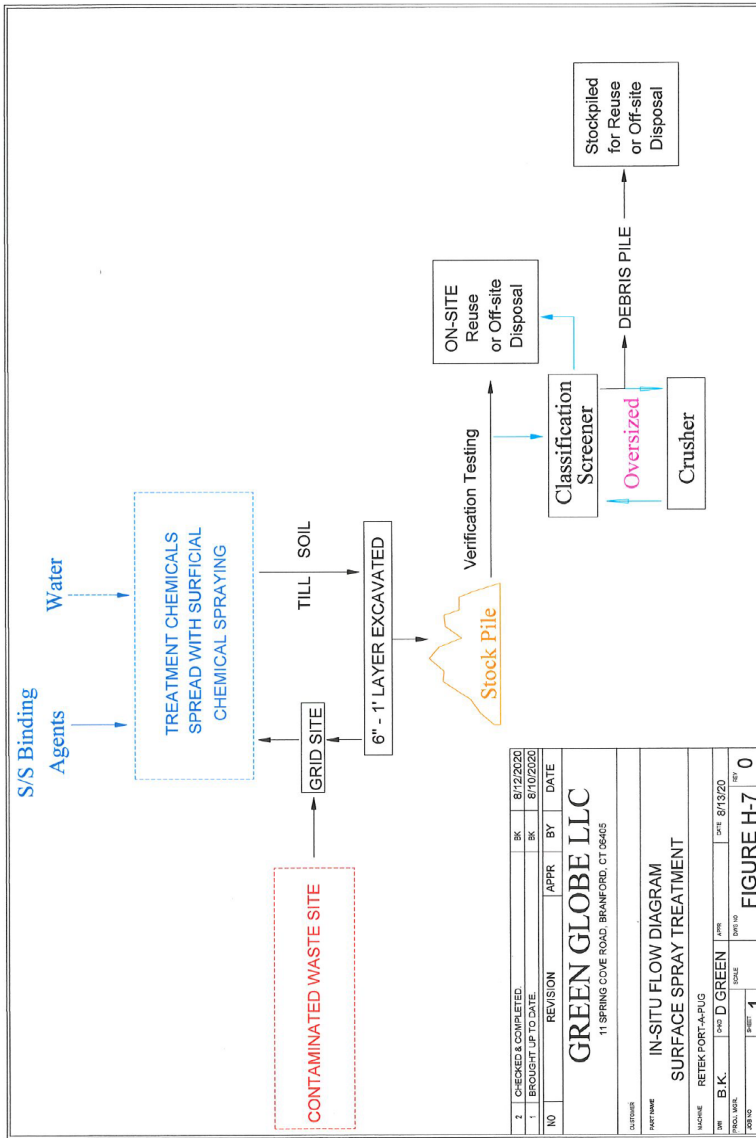


FIGURE 0-5

GREEN GLOBE, LLC
MANIFEST LOG

SITE NAME _____ DISPOSAL FACILITY _____ DATE _____

TRANSPORTER PLATE	MANIFEST NUMBER	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT

Figure II-1 Ex-Situ Treatment Process

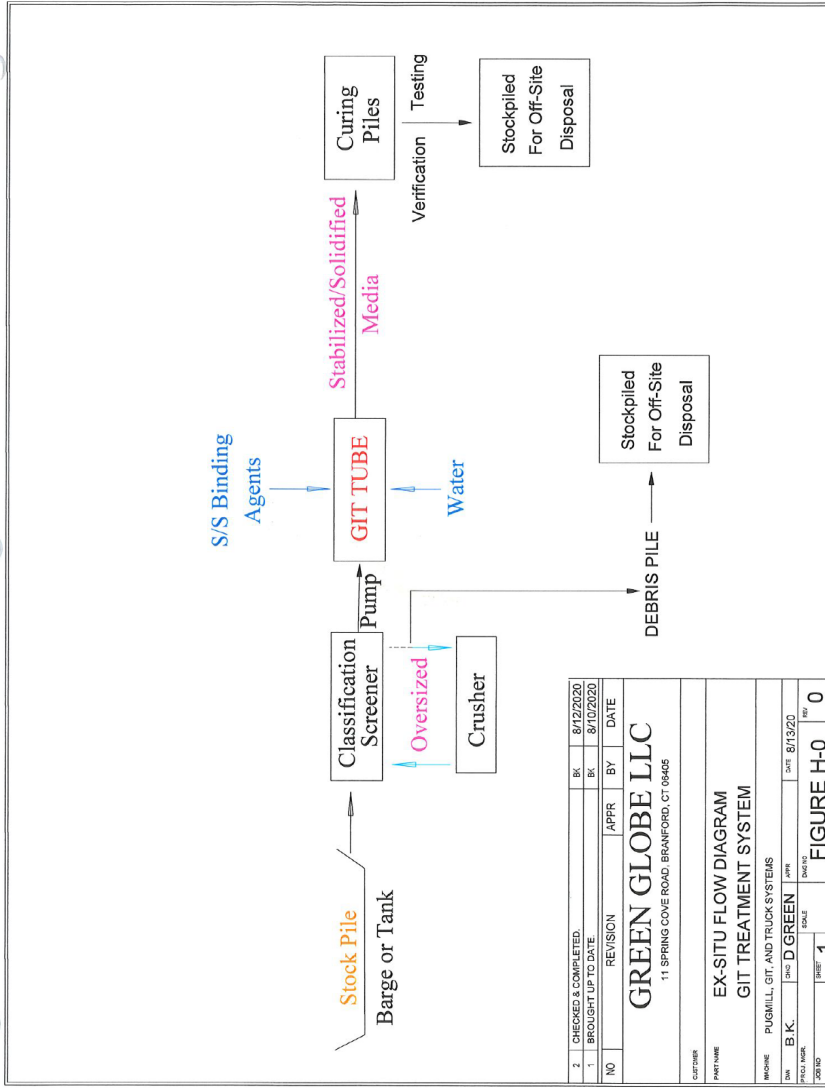
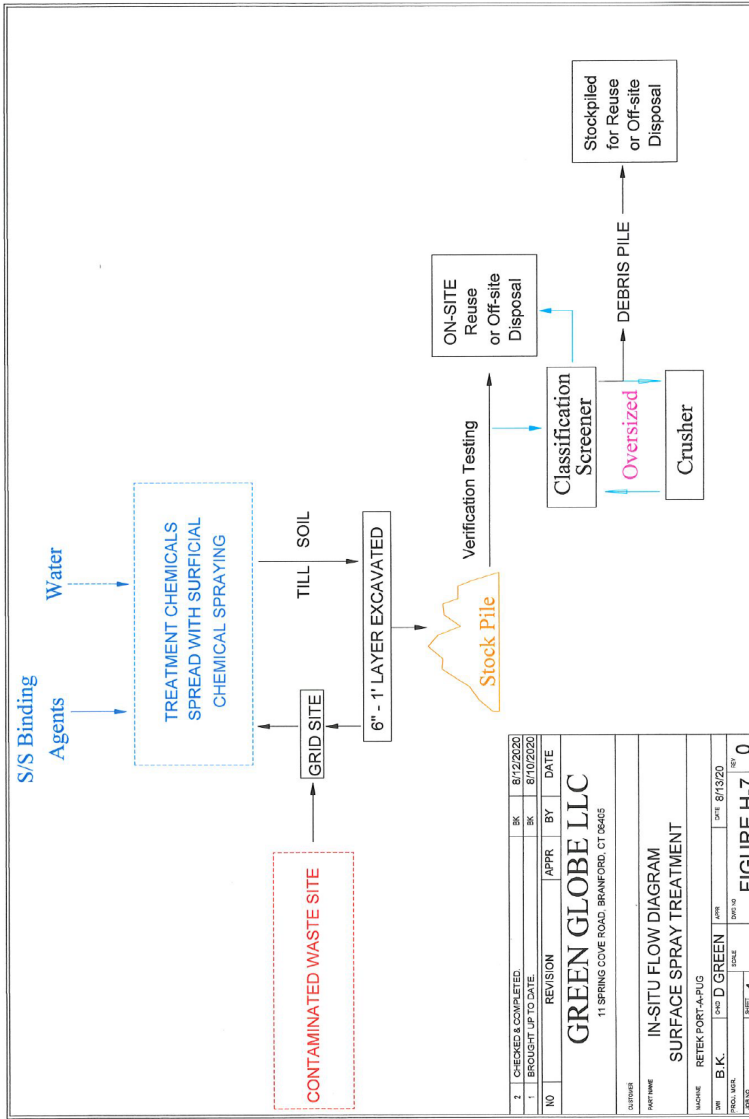
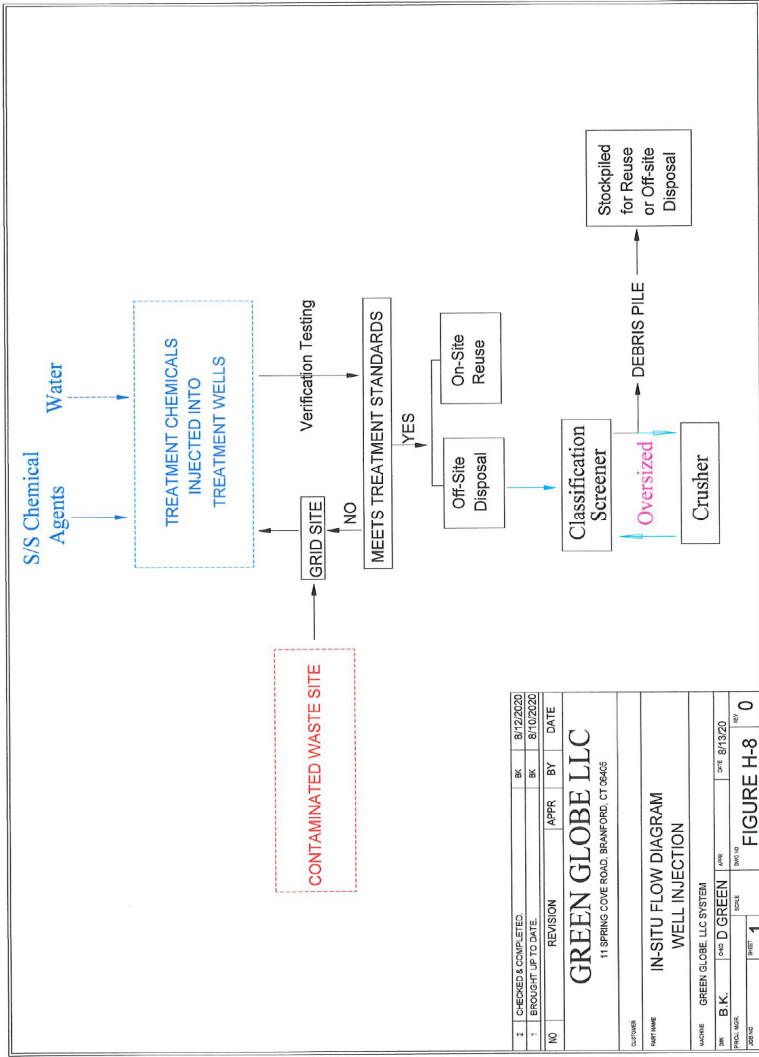


Figure II-2 In Situ-Treatment Process





1	CHECKED & COMPLETED.	BY	8/17/2020	
1	BROUGHT UP TO DATE.	BY	8/17/2020	
NO	REVISION	APPR	BY	DATE
GREEN GLOBE LLC 11 SPRING COVE ROAD, BRANFORD, CT 06405				
IN-SITU FLOW DIAGRAM WELL INJECTION				
CUSTOMER	GREEN GLOBE LLC SYSTEM			
DATE	8/13/20	SCALE	DATE 8/13/20	
PROJ. NO.	DATE	SCALE	DATE	
DESIGN	DATE	SCALE	DATE	
NO.	1	SHEET	0	
FIGURE H-8				

Figure II-3A Typical In-Situ Plant Layout

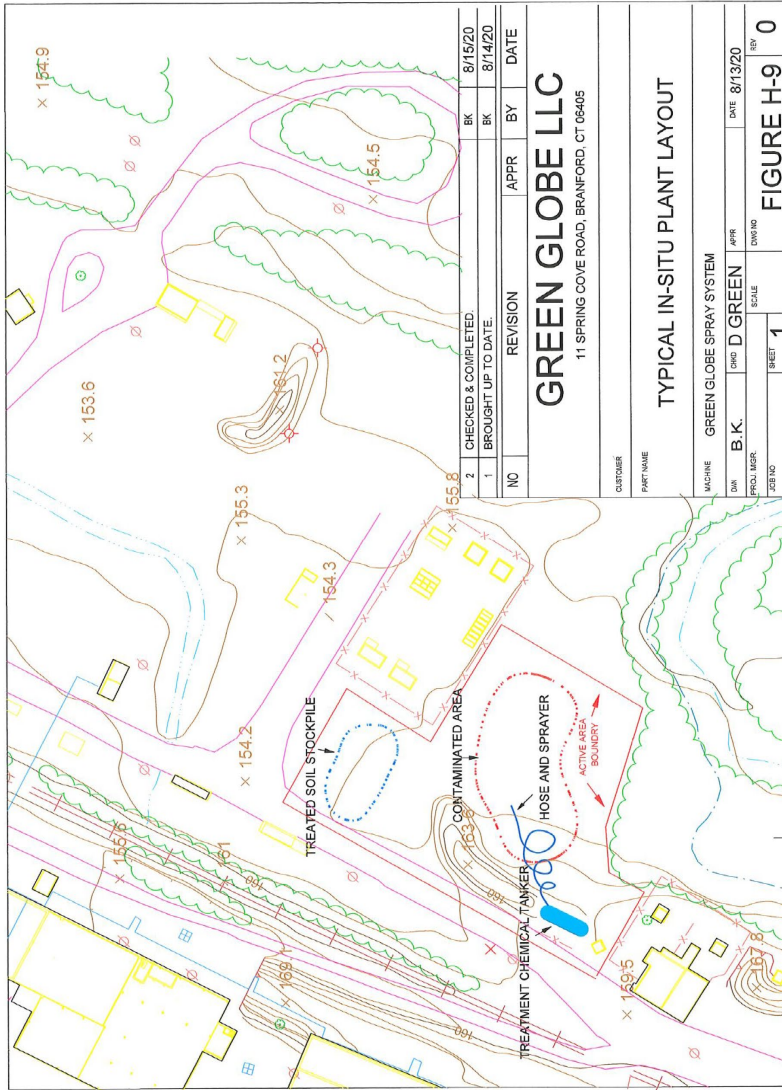


Figure II-3B Typical In-Situ Process

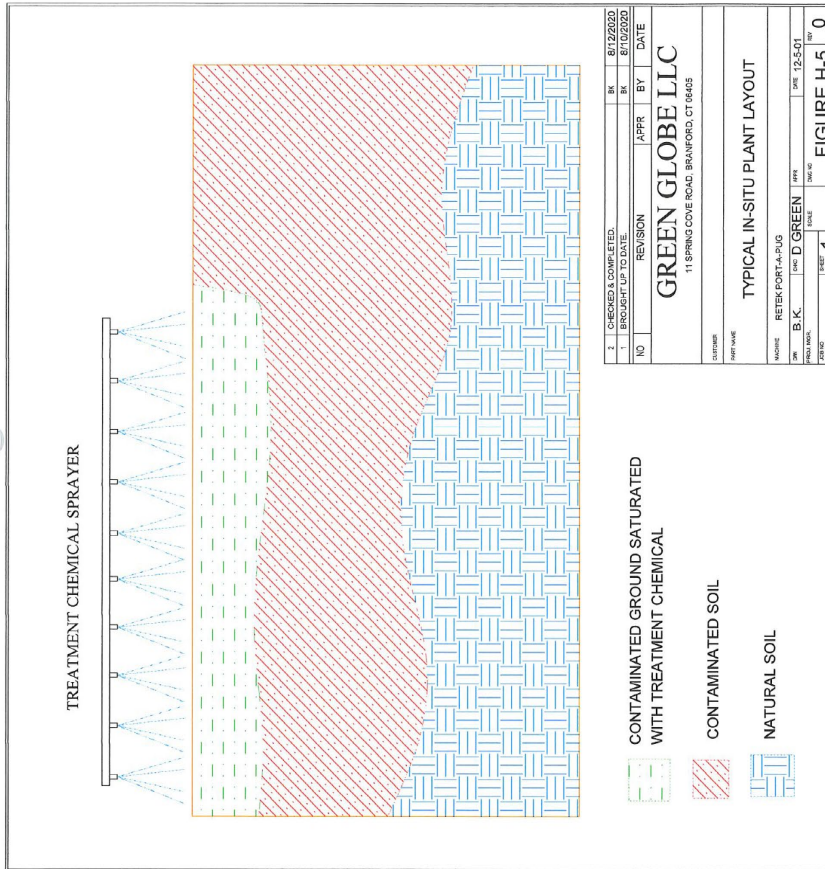


Figure II-4 Typical Ex-Situ Plant Layout

