

REGION RESPONSE TEAM III PRODUCT PREAUTHORIZATION GUIDELINES

I. Introduction

Guidelines for authorizing the use of chemicals listed on the National Contingency Plan (NCP) product Schedule are found in NCP Subpart J and Section 300.310, Phase III. The Federal On-Scene Coordinator (OSC) may use chemicals and other materials to restrain the spread of oil and protect public health and welfare and the environment. Section 300.910 requires that the Regional Response Team (RRT) shall address the desirability of using appropriate dispersants, surface washing agents, surface collecting agents, bioremediation agents, or miscellaneous oil spill control agents listed on the NCP Product Schedule. Regional Contingency Plans (RCP) shall also include applicable preauthorization plans and address the specific contexts in which such products should and should not be used.

The Regional Response Team III (RRT III) employed the Alternative Response Tool Evaluation System (ARTES) to assess possible use of CI Agent (product), an oil solidifier, in emergency oil spill response activities in RRT III. The product is a dry granular powder of blended polymers that encapsulates petroleum-based liquids upon contact through the rapid transformation of the liquid into a cohesive rubber-like mass. The product maker is Immediate Response Spill Technologies (www.ciagent.com). The results of the ARTES review disclosed that the product could be an effective oil spill response countermeasure that poses little or no known adverse environmental effects.

The OSC shall comply with the Memorandum of Agreement (MOA) regarding Oil Spill Planning and Response Activities under the NCP and the Endangered Species Act (ESA). Attached (Appendix A) is the ESA and Essential Fish Habit consultation regarding this document. These consultations may need periodic updating since species listings may change and/or surface washing agents maybe added to the NCP product schedule. The OSC should also consult with the governing state agency regarding any recommended measures to avoid or minimize impacts to state-listed species and their habitats.

The OSC is preauthorized to use the product in responding to oil spills within RRT III, which includes all of the states of Pennsylvania, West Virginia, Virginia, Maryland and Delaware, as well as the District of Columbia subject to the constraints and practices identified in this document, including those identified through state permitting.

II. Special Considerations for Use of Product

Special consideration areas are notable for environmental sensitivity, treaty protection, government designation, important public value and private ownership. If use is proposed in the following areas, the product is not preauthorized and additional consultation with the appropriate manager or owner shall be undertaken prior to application:

1. Vital Resources: The product is not recommended near operating water intakes since it may potentially foul water supplies.
2. Federal, State or local areas of significance: Preauthorization does not apply within or immediately adjacent to units of the National Park Service, State or local parks, the National Wildlife Refuge System, Federal Wilderness Areas, the Wild and Scenic Rivers System, a National Marine Sanctuary, a National Estuarine Research Reserve, and the National Forest without the prior consent of the land managing agency.
3. Historic/Archeological Resources: Preauthorization does not apply for applications on or immediately adjacent to historic properties. OSCs shall comply with the Programmatic Agreement on Protection of Historic Properties During Emergency Response to identify, avoid, and/or mitigate potential impacts. OSCs shall consult with the appropriate State Historic Preservation Officer (SHPO) prior to any testing.
4. Private landowners: OSCs should notify landowners of their intent to conduct applications on privately-owned property and give special consideration to any concerns expressed by the landowners.

III. Criteria for use of Product

The OSC must complete the checklist questionnaire in Attachment B.

If the answer to all the questions on the checklist is “YES” then the product is preauthorized for use.

If any of the answers to any of the questions on the checklist is a “NO”, the OSC must consult and seek approval from the RRT III prior to use of this product.

IV. Reporting

Within 30 days of the use of the product at any spill event, the OSC must submit a report to:

United States Department of Commerce
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Northeast Region
One Blackburn Drive
Gloucester, MA 01930-2298.

The report is to include, but not limited to, location of spill, amount of product used, type and amount of oil treated, weight and volume of treated oil recovered, impacts on marine resources, impacts to wildlife/environment and evaluation of effectiveness of application.

In addition to providing a copy of the above report to the RRT III Co-Chairs, the OSC will also provide observations, lessons learned and any suggested changes to this guidance to the RRT III Co-Chairs. Changes to this document will be made as appropriate.

V. Amendments

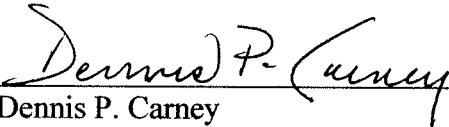
This document may be amended in whole or in part as is mutually agreeable to all parties thereto. Area Committees may submit further defined areas for use/non-use of the product for consideration and approval by the RRT III concurrence agencies. Approved amendments shall be found in a separate appendix to this document.

VI. Cancellation

This document may be canceled in whole or in part by any party thereto. Cancellation will take place 30 days following delivery of written notification to each of the agencies participating in this document.

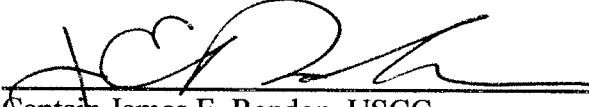
**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures



Dennis P. Carney
U.S. Environmental Protection Agency, Region III
RRT Co-Chair

1/24/07
Date



Captain James E. Rendon, USCG
Fifth Coast Guard District
RRT Co-Chair

1/24/07
Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**


VII. Signatures
(continued)



Mr. Michael Chezik
U.S. Department of Interior
RRT III Representative

1/24/07
Date

VII. Signatures
(continued)



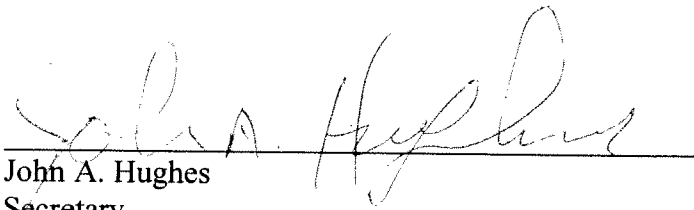
Edwin A. Levine
U.S. Department of Commerce
RRT III Representative

2/28/07

Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures
(continued)



A handwritten signature in cursive script, appearing to read "John A. Hughes", is written over a horizontal line.

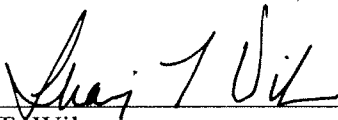
John A. Hughes
Secretary
Department of Natural Resources and Environmental Control
State of Delaware

4/13/07

Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures
(continued)



Shari T. Wilson
Secretary
Department of the Environment
State of Maryland

4/10/07
Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

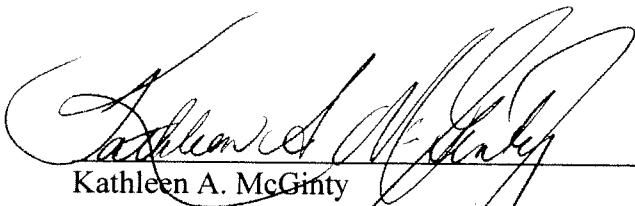
VII. Signatures
(continued)

Stephanie R. Timmermeyer
Stephanie R. Timmermeyer
Secretary
Department of Environmental Protection
State of West Virginia

4-5-07
Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures
(continued)

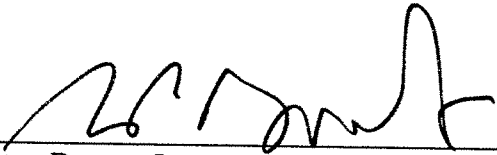


Kathleen A. McGinty
Secretary
Department of Environmental Protection
Commonwealth of Pennsylvania

3/21/07
Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures
(continued)



L. Preston Bryant, Jr.
Secretary of Natural Resources
Commonwealth of Virginia

4/2/07

Date

**REGION RESPONSE TEAM III PRODUCT
PREAUTHORIZATION
GUIDELINES**

VII. Signatures
(continued)

Barbara Childs-Pair
Acting Director, Emergency Management Agency
District of Columbia

Date

ATTACHMENT A



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Chesapeake Bay Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401

FILE COPY

April 12, 2006

Mr. Dennis P. Carney
Regional Response Team III Co-Chair
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

RE: *Regional Response Team III (RRT III) Use of CIAgent in Emergency Oil Spill Response Activities in Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia*

Dear Mr. Carney:

This letter is in response to your letter dated October 31, 2005, regarding the effects the proposed use of CIAgent may have on species that are Federally listed or proposed for listing as endangered or threatened. These species are under the jurisdiction of the U.S. Fish and Wildlife Service (Service), some of which are present within the Regional Response Team III (RRT III) area. It is our understanding that the U.S. Environmental Protection Agency (USEPA) proposes to pre-authorize the use of CIAgent, an oil solidifier, in emergency oil spill response activities in RRT III. We have reviewed the information you enclosed and are providing comments in accordance with Section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

After careful review of the available literature associated with CIAgent, the Service has determined that there are concerns regarding the use of CIAgent in the RRT III area. These concerns are based on the potential to cause physical impacts to certain Federally listed threatened and endangered species and not on effects caused by chemical toxicity. Concerns were related to physical effects that include: smothering of specific habitats, ingestion blockage, and application/removal activities that may disturb nesting species such as bald eagles (*Haliaeetus leucocephalus*).

After careful review of which Federally listed threatened and endangered species could be potentially affected by the use of CIAgent in the RRT III area, the Service developed tables (Tables 1-6; see enclosed) for each state that identify which counties where pre-approval for CIAgent use can be authorized without effects to threatened or endangered species. The tables also list counties for each state where notification is required before

CI Agent is used and the species that could potentially be affected. Notification should be made to the natural resource trustees for each state, including the Service.

This response relates only to Federally listed species under the jurisdiction of the Service. The National Oceanic and Atmospheric Administration Fisheries should be contacted for information on Federally listed species that are under their jurisdiction, including the shortnose sturgeon (*Acipenser brevirostrum*).

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interest in these resources. If you have any questions or need further assistance, please contact Peter McGowan of my Environmental Contaminants staff at 410-573-4523 or Andy Moser of my Endangered Species staff at 410-573-4537.

Sincerely,



For John P. Wolflin
Supervisor

Enclosures

cc: Tom Chapman, Supervisor, West Virginia Field Office, Elkins WV
Karen Mayne, Supervisor, Virginia Field Office, Gloucester, VA
David Densmore, Supervisor, Pennsylvania Field Office, PA

Filename: P:/everyone/mcgowan/CI Agent letter to EPA

Tables 1-6 are not enclosed with this letter. They are in Attachment C of the "REGION RESPONSE TEAM III PRODUCT PREAUTHORIZATION GUIDELINES"



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
One Blackburn Drive
Gloucester, MA 01930-2298

JUN 29 2006

Kevin Boyd
EPA III Emergency Planner and Chairperson
RRT III Spill Response Countermeasures Workgroup
US Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Mr. Boyd:

The National Marine Fisheries Service (NMFS) has reviewed your request for a preauthorization to utilize "CI Agent," an oil solidifier, in emergency oil spill response activities in the geographic area of Regional Response Team III (RRT III). RRT III includes the states of West Virginia, Maryland, Delaware, Pennsylvania, Virginia, and the District of Columbia.

According to your May 2, 2006 Essential Fish Habitat (EFH) assessment, CI Agent is a dry granular powder of blended polymers that encapsulates petroleum-based liquids upon contact through the rapid transformation of the liquid into a cohesive rubber-like mass that could effectively be collected and removed. RRT III has concluded that CI Agent could be an effective oil spill response countermeasure that poses little or no known adverse environmental effects. The product would most likely be used in contained areas, crevices where flushing is not effective, near shore, intertidal areas, and possibly at marsh edge during ebb tide to prevent oil from spreading. It would not be used in deep open water.

The Magnuson-Stevens Fishery Conservation and Management Act (MSA) and the Fish and Wildlife Coordination Act require federal agencies to consult with one another on actions such as this. Insofar as an action involves EFH, as this project does, this process is guided by the requirements of our EFH regulation at 50 CFR 600.905, which mandates the preparation of EFH assessments and generally outlines each agency's obligations in this consultation procedure. We offer the following comments and recommendations on this project pursuant to the above referenced regulatory process.

General Comments

The states encompassed by RRT III contain a wide variety of marine, estuarine, and riverine resources resulting in a very complex coastal ecosystem. NMFS Trust resources within this area include, but are not limited to: diadromous fish species such as shad, alewife, blueback herring, striped bass, and American eels which all require unobstructed passage from the ocean into the upper portions of fresh water systems to fulfill their spawning or nursery requirements; estuarine invertebrate species such as blue crabs, eastern oysters, northern quahogs, and soft shell clams. In addition, EFH has been designated for species managed by the Mid-Atlantic, New England, and South Atlantic Fisheries Management Councils. Species with EFH designated in this area include, but are not limited to, summer flounder, scup, black sea bass, bluefish, winter flounder,



winter skate, windowpane flounder, sandbar shark, and red drum. In addition, all submerged aquatic vegetation (SAV) and macro-algae beds have been designated as a Habitat Area of Particular Concern for juvenile summer flounder. SAV beds, marshes and bottom habitats are the habitats most vulnerable to impacts from oil spills.

Toxicity tests have shown that CI Agent is not acutely toxic to marine and estuarine fish and invertebrates. Since its specific gravity is less than 1.0, it will float in fresh and salt water even after it has encapsulated oil. Under certain conditions the product could be released into the environment (e.g., wind blown powder) where it could remain unreacted. Since the polymers degrade very slowly, the residues may be highly persistent. There are concerns that the product could be ingested by animals feeding on the water surface or living in the sediments. There are additional concerns about exposure to solidified oil that remains in the environment after recovery efforts have terminated. Treated oil is expected to weather more slowly, compared to untreated oil, and may, therefore, be more persistent. However, the application of CI Agent to spilled oil should allow for a more rapid recovery, thereby reducing the impacts on marine and aquatic resources.

Essential Fish Habitat Conservation Recommendations

As stated above, the area comprising RRT III contains EFH for a wide variety of species managed by the three Fishery Management Councils. The proposed use of CI Agent may adversely affect EFH, however, the impacts should be no greater than those created by the spilled oil itself. Based upon the preauthorization conditions specified by the RRT 4 and Caribbean RRT, NMFS recommends pursuant to Section 305(b)(4)(A) of the MSA that Regional Response Team III adopt the following EFH conservation recommendations:

1. The preauthorization should only apply to the use of the product marketed as CI Agent to insure that adequate information on product composition and toxicity are available.
2. CI Agent should only be used on oil under 500 gallons treatment volume.
3. No more than 1,000 pounds of CI Agent in loose form should be applied in response to a spill event as part of the preauthorization. Use of greater than 1,000 pounds will require additional EFH consultation.
4. Application of loose product should be continuously monitored to ensure that material is completely contained and recovered. Recovery should be conducted as soon as the product is no longer effectively removing oil.
5. Loose product should only be applied to contained oil.
6. All product and treated oil should be recovered.
7. During operational use of the product, effectiveness should be monitored, including interaction with marine resources and damage to substrate and vegetation.

8. Within 30 days of the use of CI Agent at any spill event, a report must be submitted to NMFS, at the above address, documenting the location of the spill, amount of product used, type and amount of oil treated, weight or volume of treated oil recovered, impacts on marine resources, and evaluation of effectiveness of the application.

Please note that Section 305(b)(4)(B) of the MSA requires the RRT III to provide NMFS with a detailed written response to these EFH conservation recommendations, including a description of measures adopted for avoiding, mitigating, or offsetting the impact of the project on EFH. In the case of a response that is inconsistent with NMFS' recommendations, Section 305(b)(4)(B) of the MSA also indicates that the RRT III must explain its reasons for not following the recommendations. Included in such reasoning would be the scientific justification for any disagreements with NMFS over the anticipated effects of the proposed action and the measures needed to avoid, minimize, mitigate, or offset such effects pursuant to 50 CFR 600.920(k).

Please also note that a distinct and further EFH consultation must be reinitiated pursuant to 50 CFR 600.920(l) if new information becomes available or the project is revised in such a manner that affects the basis for the above EFH conservation recommendations.

Endangered Species Act

Section 7(a)(2) of the ESA states that each federal agency shall insure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of a listed species, or result in the destruction or adverse modification of designated critical habitat. Any discretionary federal action that may affect a listed species must undergo Section 7 consultation. As listed species may be present in the project area, the federal action agency is responsible for determining whether the proposed action is likely to affect any listed species. More information regarding the Endangered Species Program is located on the Protected Resources Division web site at http://www.nere.noaa.gov/prot_res/. Questions concerning section 7 consultation can be directed to Julie Crocker at 978-291-9300 x6530.

Conclusions

In summary, NMFS recommends that the RRT III implement standard conditions as part of the preauthorization. Additional information relative to ESA should be pursued as described above. We look forward to your response to our EFH conservation recommendations on this action. Should you have any questions about this matter, please contact Lou Chiarella, Regional EFH Coordinator, at 987-281-9277.

Sincerely,



Peter D. Colosi
Assistant Regional Administrator
For Habitat Conservation

cc: PRD – M. Colligan, J. Crocker
HCD – J. Nichols, S. Gorski, C. Boelke
F/NE – P. Kurkul



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
One Blackburn Drive
Gloucester, MA 01930-2296

AUG 16 2006

Dennis P. Carney
Office of Preparedness and Response
US Environmental Protection Agency
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

David T. Ormes
Fifth Coast Guard District
431 Crawford Street
Portsmouth, Virginia 23704

Dear Mr. Carney and Mr. Ormes,

This is in response to your letter dated July 19, 2006 regarding the use of CI Agent, an oil solidifier, in emergency oil spill response activities within the geographic areas overseen by Regional Response Team III (RRT III). RRT III is considering whether to preauthorize product use in responding to oil spills within RRT III, which includes the states of West Virginia, Maryland and Delaware, as well as the Commonwealths of Pennsylvania and Virginia and the District of Columbia. The Habitat Conservation Division (HCD) of NOAA's National Marine Fisheries Service (NMFS) provided comments on this proposal in a letter dated June 29, 2006. The comments below are offered by NMFS Protected Resources Division (PRD)

Several species listed as threatened or endangered under the jurisdiction of NMFS occur within RRT III. The federally endangered shortnose sturgeon (*Acipenser brevirostrum*) occurs in the Delaware River from the lower Bay to at least Scudders Falls, Pennsylvania, the mainstem Chesapeake Bay and at least the Potomac River. The presence of shortnose sturgeon in other tidal tributaries of the Chesapeake Bay has not been well documented. However, shortnose sturgeon have been captured incidentally in fishing gear in the Susquehanna, Patapsco, Nanticoke, Elk, Sassafras and Bohemia rivers and NMFS assumes that this species may occur at least occasionally in these rivers.

The sea turtles in northeastern nearshore waters are typically small juveniles with the most abundant being the federally threatened loggerhead (*Caretta caretta*) followed by the federally endangered Kemp's ridley (*Lepidochelys kempi*). While endangered leatherbacks (*Dermochelys coriacea*) are predominantly pelagic, they may occur close to shore, especially when pursuing their preferred jellyfish prey. Threatened green sea turtles (*Chelonia mydas*) may also occur in these waters in warmer months. Sea turtles are typically present in the waters of RRT III from April 1 - November 30. Sea turtles are known to occur in Delaware Bay, the Chesapeake Bay (primarily below the mouth of the Potomac River) and along the Atlantic coast.

Listed whales may also be found seasonally off the Atlantic coast of RRT III. Listed whales in nearshore waters would include the federally endangered Northern right (*Eubalaena glacialis*) and humpback (*Megaptera novaeangliae*) whales. Fin (*Balaenoptera physalus*) and sperm (*Physeter macrocephalus*) whales are typically found in deeper offshore waters.



As oil spills are unpredictable events, it is impossible to predict the volume or concentration of CI Agent that would need to be applied in response to a spill or the extent of the area that the CI Agent would cover. As such, it is difficult to predict what effect the CI Agent would have on listed species. While the information provided in your letter indicates that CI Agent has minimal effects on abalone and fathead minnows, the relevance of this data to shortnose sturgeon, whales and sea turtles is unknown. There is not currently enough information on the effects of CI Agent to determine that the use of this product in areas where listed species may be present would not cause adverse affects to these species. As such, at this time, NMFS can not concur that using CI Agent during emergency oil spill response is unlikely to adversely affect listed species under our jurisdiction.

In areas where listed species are not present, NMFS PRD would not object to the preauthorization of the use of CI Agent provided that the conservation recommendations provided by NMFS HCD are implemented. The emergency consultation procedures outlined in Section 7 of the Endangered Species Act (ESA) of 1973, as amended, were designed to ensure that emergency response decisions were not delayed by the interagency consultation (see 50 CFR 402.05). NMFS PRD believes that adherence to the emergency consultation procedures would allow the use of CI Agent without time delay. The effects of the oil spill response, including the use of CI Agent, would then be the subject of consultation when all response activities have been completed. This process was successfully implemented during the response to the MV Athos I spill in the Delaware River. While CI Agent was not used during response to that spill, a similar procedure would occur should CI Agent be used during future oil spill events. Thank you for the opportunity to provide comments on the preauthorization of CI Agent. Should you have any questions regarding these comments, please contact Julie Crocker of my staff at (978)281-9300 x6530 or by e-mail (Julie.Crocker@noaa.gov).

Sincerely,



Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

Cc: Boelke, F/NER4
Levine, NOAA

File Code: USCG preauthorization of CI Agent for oil spill response

PCTS: F/NER/2006-03992

ATTACHMENT B

**REGION RESPONSE TEAM III PRODUCT PREAUTHORIZATION
CHECKLIST**

Question	NO	YES
1. Attachment C lists tables for each state that identify counties where the product is pre-authorized. Is the area being considered for product use listed in Attachment C as a “yes” for pre-approval?		
2. Is the area being considered for product use in an area that is not the Delaware Bay, Delaware River up to Scudders Falls, Chesapeake Bay, Potomac River, Susquehanna River, Patapsco River, Nanticoke River, Elk River, Sassafra River, Bohemia River and the Atlantic Coast?		
3. Is the product intended to be used on an oil spill of 500 gallons or less?		
4. Has a bucket test been conducted and shown that the product would be effective on the spilled oil?		
5. Is the intention to use no more than 1000 pounds of the product in loose form in response to this single spill event?		
6. Will the application of loose product be continuously monitored to ensure that materials is attempted to be completely contained and recovered?		
7. Will recovery be conducted as soon as the product is no longer effectively removing oil?		
8. Will loose product only be applied to contained oil?		
9. Will there be an attempt to recover all product and treated oil?		
10. During operational use of the product, will effectiveness be monitored, including interaction with marine resources and damage to substrate and vegetation?		
11. Is the water current at the impacted area less than 1 knot to help ensure the product does not escape containment and contaminate clean environments down current?		
12. Has it been verified that the treated area will not be exposed to breaking waves?		
13. Is the area accessible to observers, monitors, sample collectors, equipment, contract workers, etc?		
14. Has it been verified that the application will not take place during heavy rain, sleet or snow events?		
15. Has it been verified that that the application will not take place during high winds?		
16. Will Global Positioning System (GPS) location points be taking defining area where practicable and/or will the area be adequately mapped?		
17. Will the application be attempted to be applied in a contained area?		
18. Will the site specific product application procedures be in accordance with the manufacturers recommended application procedures?		

Question	NO	YES
19. Will 100% recovery of the product be attempted?		
20. Is the appropriate removal equipment (i.e., vacuum pumps, portable skimmer, etc.) to remove the oil and product on-scene?		
21. Will the oil/product be disposed of properly in accordance with federal, state and local requirements?		
22. Has it been verified that there are no vital resources (operating water intakes) at or near or immediately downstream from the area where the product is proposed to be used?		
23. Has it been verified that the area proposed for use of the product is not within or immediately adjacent to units of the National Park Service, State or local parks, the National Wildlife Refuge System, Federal Wilderness Areas, the Wild and Scenic Rivers System, a National Marine Sanctuary, a National Estuarine Research Reserve, or National Forest?		
24. Has it been verified that the area proposed for use of the product is not on or immediately adjacent to a Historic/Archeological Resource?		
25. Have the landowner(s) of the area proposed for use of the product been notified of the intent to use the product?		

If the answer to all the questions above is “YES” then the product is pre-authorized for use.

If any answer to any of the above questions is a “NO”, the OSC must consult and seek approval from the RRT III prior to use of this product.

ATTACHMENT C

Table 1. List of Delaware Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in Delaware please call the Service's Chesapeake Bay Field Office reached at 410-573-4500.

County	Pre-approval	Notification	Species
Kent	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Newcastle	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Sussex	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>); Swamp pink (<i>Hellonius bullata</i>)

Table 2. District of Columbia: Notification is required, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in the District of Columbia please call the Service’s Chesapeake Bay Field Office reached at 410-573-4500.

County	Pre-approval	Notification	Species
N/A	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Hay’s spring amphipod (<i>Stygobromus hayi</i>)

Table 3. List of Maryland Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in Maryland please call the Service’s Chesapeake Bay Field Office reached at 410-573-4500.

County	Pre-approval	Notification	Species
Allegany	No	Yes	Harperella (<i>Ptilimnium nodosum</i>)
Anne Arundel	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Swamp Pink (<i>Helonius bullata</i>)
Baltimore	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Calvert	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>); Puritan beach tiger beetle (<i>Cicindela puritana</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Caroline	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Carroll	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Cecil	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>) Puritan beach tiger beetle (<i>Cicindela puritana</i>); Swamp Pink (<i>Helonius bullata</i>)
Charles	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Dorchester	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Swamp Pink (<i>Helonius bullata</i>)
Frederick	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Garrett	Yes	No	N/A
Harford	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Howard	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Kent	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>) Puritan beach tiger beetle (<i>Cicindela puritana</i>)
Montgomery	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Prince Georges	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Queen Annes	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Somerset	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
St. Marys	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Talbot	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Washington	No	Yes	Harparella (<i>Ptilimnium nodosum</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Wicomico	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Worcester	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>);

Table 4. List of Pennsylvania Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in Pennsylvania please call the Service’s Pennsylvania Field Office at 814-234-4090.

County	Pre-approval	Notification	Species
Adams	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Allegheny	Yes	No	N/A
Armstrong	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Beaver	Yes	No	N/A
Bedford	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Berks	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Blair	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Bradford	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Bucks	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>)
Butler	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Cambria	Yes	No	N/A
Cameron	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Carbon	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Centre	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Chester	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Clarion	Yes	No	N/A
Clearfield	Yes	No	N/A
Clinton	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>);
Columbia	Yes	No	N/A
Crawford	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Cumberland	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Delaware	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>)
Dauphin	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Elk	Yes	No	N/A
Erie	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Fayette	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Forest	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>);
Franklin	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Fulton	Yes	No	N/A
Greene	Yes	No	N/A
Huntingdon	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Indiana	Yes	No	N/A
Jefferson	Yes	No	N/A
Juniata	Yes	No	N/A

Table 4. List of Pennsylvania Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in Pennsylvania please call the Service’s Pennsylvania Field Office at 814-234-4090.

County	Pre-approval	Notification	Species
Lackawanna	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Lancaster	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Lawrence	Yes	No	N/A
Lebanon	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>)
Lehigh	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
Luzerne	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Lycoming	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
McKean	Yes	No	N/A
Mercer	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Mifflin	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Monroe	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Montgomery	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Montour	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Northampton	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Northumberland	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Perry	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Philadelphia	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>)
Pike	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Potter	Yes	No	N/A
Schuylkill	Yes	No	N/A
Snyder	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Bald eagle (<i>Haliaeetus leucocephalus</i>)
Somerset	Yes	No	N/A
Sullivan	Yes	No	N/A
Susquehanna	Yes	No	N/A
Tioga	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Union	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Venango	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Warren	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Washington	Yes	No	N/A
Wayne	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Westmoreland	Yes	No	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Wyoming	Yes	No	N/A
York	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)

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County	Pre-approval	Notification	Species
Accomack	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>); Loggerhead sea turtle (<i>Caretta caretta</i>); (Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>))
Albemarle	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>)
Alleghany	No	Yes	Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); James spiny mussel (<i>Pleurobema collina</i>)
Amelia	Yes	No	N/A
Amherst	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>)
Appomattox	No	Yes	Small whorled pogonia (<i>Isotria medeoloides</i>)
Augusta	No	Yes	Madison cave isopod(<i>Antrolana lira</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Swamp pink (<i>Helonius bullata</i>); Eastern prairie fringed orchid (<i>Platanthera leucophaea</i>); Virginia sneezeweed (<i>Helenium virginicum</i>)
Bath	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>)
Bedford	No	Yes	Roanoke logperch (<i>Percina rex</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Blande	Yes	No	N/A
Botetourt	No	Yes	James spiny mussel (<i>Pleurobema collina</i>)
City of Bristol	Yes	No	N/A
Brunswick	No	Yes	Roanoke logperch (<i>Percina rex</i>)
Buchanan	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Buckingham	No	Yes	Small whorled pogonia (<i>Isotria medeoloides</i>)
City of Buena Vista	Yes	No	N/A
Campbell	Yes	No	N/A
Caroline	No	Yes	Small whorled pogonia (<i>Isotria medeoloides</i>); Swamp pink (<i>Helonius bullata</i>)
Carroll	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Charles City	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Charlotte	Yes	No	N/A
City of Chesapeake	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Chesterfield	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)

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County	Pre-approval	Notification	Species
Clarke	No	Yes	Madison cave isopod (<i>Antrolana lira</i>)
City of Colonial Heights	Yes	No	N/A
City of Covington	Yes	No	N/A
Craig	Yes	No	James spiny mussel (<i>Pleurobema collina</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Culpepper	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Cumberland	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Dickenson	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Dinwiddie	Yes	No	Roanoke logperch (<i>Percina Rex</i>)
City of Emporia	Yes	No	N/A
Essex	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Fairfax	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Fauquier	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Dwarf wedgedmussel (<i>Alismidonta heterodon</i>)
Floyd	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Mitchell’s Satyr (<i>Neonympha mitchelli mitchelli</i>)
Fluvanna	No	Yes	James spiny mussel (<i>Pleurobema collina</i>)
Franklin	No	No	Roanoke logperch (<i>Percina Rex</i>)
Frederick	Yes	No	N/A
City of Fredericksburg	Yes	No	N/A
City of Galax	Yes	No	N/A
Giles	No	Yes	James spiny mussel (<i>Pleurobema collina</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Gloucester	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Goochland	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>)
Grayson	No	Yes	Bog turtle (<i>Clemmys muhlenbergii</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Greene	No	Yes	James spiny mussel (<i>Pleurobema collina</i>)
Greensville	No	Yes	Roanoke logperch (<i>Percina rex</i>)
Halifax	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
City of Hampton	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis</i>)
Hanover	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)

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County	Pre-approval	Notification	Species
City of Harrisonburg	Yes	No	N/A
Henrico	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>) Swamp pink (<i>Helonius bullata</i>)
Henry	No	Yes	Roanoke logperch (<i>Percina rex</i>); James spiny mussel (<i>Pleurobema collina</i>)
Highland	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>)
City of Hopewell	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Isle of Wight	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
James City	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
King and Queen	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
King George	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Shortnose sturgeon (<i>Acipenser brevirostrum</i>)
King William	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Lancaster	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>);
Lee	No	Yes	Slender chub (<i>Erimystax cahni</i>); yellowfin madtom (<i>Noturus flavipennis</i>); Blackside dace (<i>Phoxinus cumberlandensis</i>); Oyster mussel (<i>Epioblasma capsaeformis</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Cracking pearl mussel (<i>Hemistena lata</i>); Birdwing pearl mussel (<i>Lemiox rimosus</i>); Lee county cাবে isopod (<i>Lirceus usdagalun</i>); Little-wing pearl mussel (<i>Pegias fibula</i>); Rough rabbitsfoot (<i>Quadrula cylindrical strigillata</i>); Fluted kidneyshell (<i>Ptychobranchnus subtentum</i>); Slabside pearl mussel (<i>Lexingtonia dolabelloides</i>); Sheepnose (<i>Plethobasacus cyphus</i>); Cumberland monkeyface pearl mussel (<i>Quadrula intermedia</i>); Appalachian monkeyface pearl mussel (<i>Quadrula sparsa</i>); Purple bean (<i>Villosa perpurpurea</i>); Cumberland bean (<i>Villosa trabalis</i>); Small whorled pogonia (<i>Isotria medeoloides</i>); Virginia spiraea (<i>Spiraea virginiana</i>); White fringeless orchid (<i>Platanthera integrilabia</i>)
Loudon	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)

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County	Pre-approval	Notification	Species
Louisa	No	Yes	Dwarf wedgemussel (<i>Alismidonta heterodon</i>)
Lunenburg	No	Yes	Dwarf wedgemussel (<i>Alismidonta heterodon</i>)
City of Lynchburg	Yes	No	N/A
Madison	Yes	No	N/A
Mathews	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>)
Mecklenburg	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Roanoke log perch (<i>Percina rex</i>)
Middlesex	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>)
Montgomery	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Roanoke log perch (<i>Percina rex</i>)
Nelson	No	Yes	Swamp pink (<i>Helonius bullata</i>); James spiny mussel (<i>Pleurobema collina</i>)
New Kent	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>); Small whorled pogonia (<i>Isotria medeoloides</i>); Swamp pink (<i>Helonius bullata</i>);
City of Norfolk	Yes	No	N/A
Northampton	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>); Loggerhead sea turtle (<i>Caretta caretta</i>); Seabeach amaranth (<i>Amaranthus pumilus</i>)
Northumberland	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern beach tiger beetle (<i>Cicindela dorsalis dorsalis</i>)
Nottoway	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Roanoke logperch (<i>Percina rex</i>); Dwarf wedgemussel (<i>Alismidonta heterodon</i>)
Orange	Yes	No	N/A
Page	No	Yes	Shenandoah salamander (<i>Plethodon Shenandoah</i>)
Patrick	No	Yes	James spiny mussel (<i>Pleurobema collina</i>); Roanoke logperch (<i>Percina rex</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
City of Petersburg	Yes	No	N/A
Pittsylvania	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Roanoke logperch (<i>Percina rex</i>); James spiny mussel (<i>Pleurobema collina</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)

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County	Pre-approval	Notification	Species
Patrick	No	Yes	James spiny mussel (<i>Pleurobema collina</i>); Roanoke logperch (<i>Percina rex</i>); Bog turtle (<i>Clemmys muhlenbergii</i>)
City of Petersburg	Yes	No	N/A
Pittsylvania	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Roanoke logperch (<i>Percina rex</i>); James spiny mussel (<i>Pleurobema collina</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
City of Poquoson	No	Yes	Northeastern beach tiger beetle (<i>Cicindela dorsalis</i>)
City of Portsmouth	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Piping plover (<i>Charadrius melodus</i>)
Powhatan	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); James spiny mussel (<i>Pleurobema collina</i>)
Prince Edward	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Prince George	No	Yes	Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Prince William	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Pulaski	Yes	No	N/A
Rappahannock	No	Yes	Shenandoah salamander (<i>Plethodon Shenandoah</i>)
Richmond	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>)
City of Richmond	No	Yes	Sensitive joint vetch (<i>Aeschynomene virginica</i>)
Roanoke	No	Yes	Roanoke logperch (<i>Percina rex</i>)
City of Roanoke	No	Yes	Roanoke logperch (<i>Percina rex</i>)
Rockbridge	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Madison cave isopod (<i>Antrolana lira</i>); James spiny mussel (<i>Pleurobema collina</i>)
Rockingham	No	Yes	Madison cave isopod (<i>Antrolana lira</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>); Virginia sneezeweed (<i>Helenium virginicum</i>)

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County	Pre-approval	Notification	Species
Russell	No	Yes	Slender chub (<i>Erimystax cahni</i>); Yellowfin madtom (<i>Notutus flavipennis</i>); Spectaclecase (<i>Cumberlandia monodonta</i>); Tan riffleshell (<i>Epioblasma florentina walkeri</i>); Oyster mussel (<i>Epioblasma capsaeformis</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Cracking pearlymussel (<i>Hemistena lata</i>); Birdwing pearlymussel (<i>Lemiox rimosus</i>); Lee county cave isopod (<i>Lirceus usdagalun</i>); Little-wing pearlymussel (<i>Pegias fibula</i>); Rough rabbitsfoot (<i>Quadrula cylindrical strigillata</i>); Fluted kidneyshell (<i>Ptychobranhus subtentum</i>); Slabside pearlymussel (<i>Lexingtonia dolabelloides</i>); Sheepnose (<i>Plethobascus cyphus</i>); Cumberland monkeyface pearlymussel (<i>Quadrula intermedia</i>); Appalachian monkeyface pearlymussel (<i>Quadrula sparsa</i>); Rayed bean (<i>Villosa fabalis</i>); Purple bean (<i>Villosa perpurpurea</i>); Cumberland bean (<i>Villosa trabalis</i>); Small whorled pogonia (<i>Isotria medeoloides</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
City of Salem	No	Yes	Roanoke logperch (<i>Percina rex</i>)
Scott	No	Yes	Slender chub (<i>Erimystax cahni</i>); Spottfin chub (<i>Erimonax monachus</i>); Duskytail darter (<i>Etheostoma percunurum</i>); Yellowfin madtom (<i>Notutus flavipennis</i>); Spectaclecase (<i>Cumberlandia monodonta</i>); Tan riffleshell (<i>Epioblasma florentina walkeri</i>); Fanshell (<i>Cyprogenia stegaria</i>); Oyster mussel (<i>Epioblasma capsaeformis</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Cracking pearlymussel (<i>Hemistena lata</i>); Birdwing pearlymussel (<i>Lemiox rimosus</i>); Little-wing pearlymussel (<i>Pegias fibula</i>); Rough rabbitsfoot (<i>Quadrula cylindrical strigillata</i>); Fluted kidneyshell (<i>Ptychobranhus subtentum</i>); Slabside pearlymussel (<i>Lexingtonia dolabelloides</i>); Sheepnose (<i>Plethobascus cyphus</i>); Cumberland monkeyface pearlymussel (<i>Quadrula intermedia</i>); Appalachian monkeyface pearlymussel (<i>Quadrula sparsa</i>); Rayed bean (<i>Villosa fabalis</i>); Purple bean (<i>Villosa perpurpurea</i>); Cumberland bean (<i>Villosa trabalis</i>); Small whorled pogonia (<i>Isotria medeoloides</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Shenandoah	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)

Table 5. List of Virginia Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in Virginia please call the Service’s Virginia Field Office reached at 804-693-6694.

County	Pre-approval	Notification	Species
Smyth	No	Yes	Slender chub (<i>Erimystax cahni</i>); Spotfin chub (<i>Erimonax monachus</i>); Yellowfin madtom (<i>Noturus flavipennis</i>); Tan riffleshell (<i>Epioblasma florentina walkeri</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Slabside pearl mussel (<i>Lexingtonia dolabelloides</i>); Little-wing pearl mussel (<i>Pegias fibula</i>); Fluted kidneyshell (<i>Ptychobranhus subtentum</i>); Virginia round-leaf birch (<i>Betula uber</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Southampton	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); red cockaded woodpecker (<i>Picoides borealis</i>); Roanoke logperch (<i>Percina rex</i>)
Spotsylvania	No	Yes	Dwarf wedgemussel (<i>Alismidonta heterodon</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
Stafford	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Shortnose sturgeon (<i>Acipenser brevirostrum</i>); Dwarf wedgemussel (<i>Alismidonta heterodon</i>); Harperella (<i>Ptilimnium nodosum</i>); Sensitive joint vetch (<i>Aeschynomene virginica</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)
City of Staunton	Yes	No	N/A
City of Suffolk	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>);
Sussex	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Red cockaded woodpecker (<i>Picoides borealis</i>); Dwarf wedgemussel (<i>Alismidonta heterodon</i>); Roanoke logperch (<i>Percina rex</i>)
Tazewell	No	Yes	Spectaclecase (<i>Cumberlandia monodonta</i>); Tan riffleshell (<i>Epioblasma florentina walkeri</i>); Oyster mussel (<i>Epioblasma capsaeformis</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Little-wing pearl mussel (<i>Pegias fibula</i>); Rough rabbitsfoot (<i>Quadrula cylindrical strigillata</i>); Fluted kidneyshell (<i>Ptychobranhus subtentum</i>); Slabside pearl mussel (<i>Lexingtonia dolabelloides</i>); Purple bean (<i>Villosa perpurpurea</i>); Cumberland bean (<i>Villosa trabalis</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
City of Virginia Beach	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Loggerhead sea turtle (<i>Caretta caretta</i>); Green sea turtle (<i>Chelonia mydas</i>)
City of Waynesboro	Yes	No	N/A
Warren	No	Yes	Madison cave isopod (<i>Antrolana lira</i>);

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County	Pre-approval	Notification	Species
Washington	No	Yes	Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Birdwing pearlymussel (<i>Lemiox rimosus</i>); Fluted kidneyshell (<i>Ptychobranchnus subtentum</i>); Rayed bean (<i>Villosa fabalis</i>); Small whorled pogonia (<i>Isotria medeoloides</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Westmoreland	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>) Sensitive joint vetch (<i>Aeschynomene virginica</i>)
City of Williamsburg	No	Yes	Small whorled pogonia (<i>Isotria medeoloides</i>)
City of Winchester	Yes	No	N/A
Wise	No	Yes	Spotfin chub (<i>Erimonax monachus</i>); Tan riffleshell (<i>Epioblasma florentina walkeri</i>); Shiny pigtoe (<i>Fusconaia cor</i>); Fine rayed pig toe (<i>Fusconaia cunelous</i>); Slabside pearlymussel (<i>Lexingtonia dolabelloides</i>); Birdwing pearlymussel (<i>Lemiox rimosus</i>); Little-wing pearlymussel (<i>Pegias fibula</i>); Fluted kidneyshell (<i>Ptychobranchnus subtentum</i>); Rayed bean (<i>Villosa fabalis</i>); Purple bean (<i>Villosa perpurpurea</i>); Cumberland monkeyface pearlymussel (<i>Quadrula intermedia</i>); Rough rabbitsfoot (<i>Quadrula cylindrical strigillata</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Wythe	Yes	No	N/A
York	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Small whorled pogonia (<i>Isotria medeoloides</i>)

Table 6. List of West Virginia Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in West Virginia please call the Service’s West Virginia Field Office reached at 304-636-6586.

County	Pre-approval	Notification	Species
Barbour	Yes	No	N/A
Berkeley	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Harperella (<i>Ptilimnium nodosum</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>);
Boone	Yes	No	N/A
Braxton	Yes	No	N/A
Brooke	Yes	No	N/A
Cabell	Yes	No	N/A
Calhoun	Yes	No	N/A
Clay	Yes	No	N/A
Doddridge	Yes	No	N/A
Fayette	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Gilmer	Yes	No	N/A
Grant	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Greenbrier		Yes	Small whorled pogonia (<i>Isotria medeoloides</i>); Virginia spiraea (<i>Spiraea virginiana</i>)
Hampshire	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Hancock	Yes	No	N/A
Hardy	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Northeastern bulrush (<i>Scirpus ancistrochaetus</i>);
Harrison	Yes	No	N/A
Jackson	Yes	No	N/A
Jefferson	Yes	No	N/A
Kanawha	Yes	No	N/A
Lewis	Yes	No	N/A
Lincoln	Yes	No	N/A
Logan	Yes	No	N/A
Marion	Yes	No	N/A
Marshall	Yes	No	N/A
Mason	Yes	No	N/A
McDowell	Yes	No	N/A
Mercer	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Mineral	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Mingo	Yes	No	N/A
Monongalia	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Monroe	Yes	No	N/A
Morgan	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>); Harperella (<i>Ptilimnium nodosum</i>)
Nicholas	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Ohio	Yes	No	N/A
Pendleton	No	Yes	Bald eagle (<i>Haliaeetus leucocephalus</i>)
Pleasants	Yes	No	N/A
Pocohontas	Yes	No	N/A
Preston	Yes	No	N/A

Table 6. List of West Virginia Counties that either have pre-approval to use the solidifier CIAgent or require notification, due to the presence of Federally listed Threatened or Endangered Species that may be potentially affected by its use, to the U.S Fish and Wildlife Service (Service) before use in RRT III. For notification in West Virginia please call the Service’s West Virginia Field Office reached at 304-636-6586.

County	Pre-approval	Notification	Species
Putnam	Yes	No	N/A
Raleigh	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Randolph	Yes	No	N/A
Ritchie	Yes	No	N/A
Roane	Yes	No	N/A
Summers	Yes	No	N/A
Taylor	Yes	No	N/A
Tucker	Yes	No	N/A
Tyler	Yes	No	N/A
Upshur	No	Yes	Virginia spiraea (<i>Spiraea virginiana</i>)
Wayne	Yes	No	N/A
Webster	Yes	No	N/A
Wetzel	Yes	No	N/A
Wirt	Yes	No	N/A
Wood	Yes	No	N/A
Wyoming	Yes	No	N/A