


INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	STATUS: Pending	POLICY NUMBER: WASTE-0072-NPD	
AGENCY NONRULE POLICY DOCUMENT SUBJECT: Supplemental Characterization Guidance	AUTHORIZED: Bruno L. Pigott, Commissioner		
	SUPERSEDES: New	ISSUING OFFICE(S): Office of Land Quality, Science Services Branch	
	ORIGINALLY EFFECTIVE: Date	RENEWED/REVISED: Date	

Disclaimer: This Nonrule Policy Document (NPD) is being established by the Indiana Department of Environmental Management (IDEM) consistent with its authority under IC 13-14-1-11.5. It is intended solely to provide guidance and shall be used in conjunction with applicable rules or laws. It does not replace applicable rules and laws, and if it conflicts with these rules or laws, the rules or laws shall control. Pursuant to IC 13-14-1-11.5, this policy will be available for public inspection for at least 45 days prior to presentation to the appropriate State Environmental Board and may be put into effect by IDEM 30 days afterward. If the nonrule policy is presented to more than one board, it will be effective 30 days after presentation to the last. IDEM also will submit the policy to the Indiana Register for publication.

1.0 PURPOSE

This NPD identifies information on how to better organize a procedure for investigating specific geologic environments and specific types of source facilities. Investigations adequately characterize the nature and extent of release-related chemicals or evaluate the effectiveness of a remedy or removal as required for remedial actions and removal under IC 13-25-5-8.5, IC 13-11-2-185, and IC 13-11-2-187. Appendices, A to H provide most investigative procedures for specific situations mentioned. The appendices are not intended to be a compendium of all environmental investigative procedures and other procedures may be approved as part of an approved remedial action.

2.0 SCOPE

This NPD applies to adequately characterizing the nature and extent of release-related chemicals or evaluating the effectiveness of a remedy or removal relating to the release.

3.0 SUMMARY

This NPD identifies various investigative procedures for specific geologic environments including Aquitard and Fine-Grained Sediment Characterization, Proper Investigative Techniques in Karst, Investigation of Manmade Preferential Pathways, Proper Investigative Techniques for Shallow Bedrock, and Use of High-Resolution Site Characterization Tools. Also identifies investigative procedures for specific types of source facilities including for Dry Cleaner Sites, Lead Issues at Small Arms Firing Ranges, and Vapor Intrusion Investigation Documentation.

4.0 DEFINITIONS

- 4.1. "Agency" – The Indiana Department of Environmental Management (IDEM).
- 4.2. "Characterization" – A determination of the source, nature, and extent of release-related chemicals.

- 4.3. "Environmental consultant" – Person providing technical, legal, or procedural advice regarding environmentally related statutes, rules, requirements, or processes while under a compensatory arrangement.
- 4.4. "Extent" – The volume or two-dimensional projection in horizontal space of a volume of media containing release-related chemicals at concentrations or risk levels exceeding unconditional remediation objectives.
- 4.5. "Nature" – The identity and concentrations of release-related chemicals in various media.
- 4.6. "Nonrule policy" – The term assigned by the Indiana Department of Environmental Management (IDEM) to those policies identified in IC 13-14-1-11.5 as any policy which: A. Interprets, supplements, or implements a statute or rule; B. Has not been adopted in compliance with IC 4-22-2; C. Is not intended by IDEM to have the effect of law; and D. Does not apply solely to the internal IDEM organization, an administrative policy.
- 4.7. "OLQ technical staff" – Positions requiring specialized knowledge pertaining to a particular occupation or field of study such as chemistry, geology, engineering, and risk assessment.
- 4.8. "Release-related chemicals" – A substance placed on the land or in the subsurface, which by virtue of its nature or quantity, is subject to regulation by IDEM's Office of Land Quality. The term also includes regulated breakdown products.
- 4.9. "Source facility" – The building, land, or enterprise used for one or more purposes (e.g., gasoline sales and storage, dry cleaning, manufacturing, etc.,) where a release occurs.

5.0 ROLES

- 5.1. Environmental consultants shall:
 - A. Use the various investigative procedures specified in this NPD to characterize release-related chemicals in environmental media.
 - B. Determine nature and extent of release-related chemicals or evaluate the effectiveness of a remedy or removal relating to the release.
- 5.2. OLQ technical staff shall:
 - A. Review work plans using the specific investigative procedures.
 - B. Make recommendations regarding the investigative procedure proposed by the consultant depending on the site-specific situation.

6.0 POLICY

- 6.1. The specific investigative procedures listed in Appendices A to H, shall be reviewed and used, as applicable.
- 6.2. IDEM shall review the consultants' work plans and remedy proposals.
- 6.3. IDEM shall evaluate the work plans and remedy proposals on their merits.
- 6.4. A determination of the nature and extent of release-related chemicals or an evaluation of the effectiveness of a remedy or removal relating to the release shall be made using the work plans and remedy.
- 6.5. The Appendices in this NPD should be used in conjunction with the Remediation Closure Guide, the Risk-based Closure Guide, or then-applicable current guidance.

7.0 REFERENCES

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 - C. IC 13-14-1-11.5 Environment, Powers and Duties of Department of Environmental Management and Boards, Duties of Department, Use by Department, <http://184.175.130.101/legislative/laws/2020/ic/titles/013/articles/010/>
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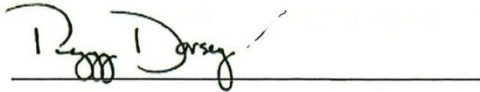
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8.0 SIGNATURES



Bruno L. Pigott, Commissioner
Indiana Department of Environmental Management

6/15/21
Date



Peggy Dorsey, Assistant Commissioner
Office of Land Quality

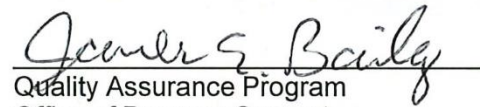
6/1/2021
Date



Nancy King, General Counsel

6/8/21
Date

This policy is consistent with agency requirements.



James S. Bailey
Quality Assurance Program
Office of Program Support
Indiana Department of Environmental Management

21 Jun 2021
Date

PRELIMINARY

9.0 APPENDICES

- A. Aquitard and Fine-Grained Sediment Characterization
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_aquitard.pdf
- B. Proper Investigative Techniques in Karst
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_karst_me_mo.pdf
- C. Investigation of Manmade Preferential Pathways
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_mpp_guidance.pdf
- D. Proper Investigative Techniques for Shallow Bedrock
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_shallow_bedrock.pdf
- E. Vapor Intrusion Investigation Documentation
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_vi_investigation.pdf
- F. Investigative Strategies for Dry Cleaner Sites
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_dry_cleaners.pdf
- G. Investigating Lead at Small Arms Firing Ranges
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_lead_small_arms_ranges.pdf
- H. Use of High-Resolution Site Characterization Tools
https://www.in.gov/idem/cleanups/files/remediation_tech_guidance_hrsc_technical.pdf