



Environmental Review Form for Argonne National Laboratory

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Created By:	Sydelko, Thomas G.

Creator

Badge:	45884	Name:	Sydelko, Thomas G.
Cost Center:	208	Division:	FMS
Job Title:	Consultant	Employee Type:	Non-Regular Full-Time Non-Exempt
Building:	214	Lab Extension:	2-3309

General Information

Project/Activity Title: Site Environmental Characterization and Monitoring

ASO NEPA Tracking No.: 2372	Type of Funding:
B & R Code:	Identifying Number: 01615
SPP Proposal Number:	CRADA Proposal Number:
Work Project Number:	ANL Accounting Number: (Item 3a in Field Work Proposal)
Other (explain):	

List appropriate NEPA Owners:

Division: EVS NEPA Owner:

Division: FMS NEPA Owner:

Cost Code

Task: Center: Project: Activity:

Description of Proposed Action

GENERAL: This generic categorical exclusion covers: the characterization of sites including those with suspected or known contamination; the environmental monitoring of sites of suspected or known contamination; environmental monitoring in response to permit requirements or to prepare permit applications; environmental monitoring conducted in support of Argonne's environmental protection program; and site characterization and monitoring. Typical techniques include: manual sample collection; drilling and down hole surveys; the construction, maintenance, and closure of monitoring wells; the installation and maintenance of sample collection devices in effluent air and water streams (at outfalls and in receiving waters that do not require permits); the deployment and collection of radiation dosimeters; the use of various sampling techniques for soil, water, sediment, landfill gas, or air; digging of shallow test pits; waste sampling; and the use of non-intrusive techniques such as geophysical surveys, plant and animal sampling at ground level or through use of unmanned aerial systems (UASs). CHARACTERIZATION: Characterization will be typically conducted at sites of known or suspected contamination or to provide support information for such sites (such as background soil and groundwater sampling and groundwater migration studies). This ERF is also intended to cover the characterization phase of newly discovered contaminated sites or sites that require further characterization. MONITORING: Monitoring will be conducted at remediation sites in the vicinity of known or suspected contamination, for the purpose of tracking the condition of the environment following the implementation of a remedial action, in the fulfillment of permit requirements, to allow the quantification of effluent releases from Argonne, or for the purposes of establishing existing environmental conditions or background/baseline conditions. It will also be conducted for assessment of site and facility conditions. RESTRICTIONS: All activities will follow the conditions in 10 CFR 1021, Subpart D, Appendix B "Conditions that Are Integral Elements of the Classes of Actions in Appendix B." The activities described in the Generic Categorical Exclusion shall not adversely impact wetlands, floodplains, streams, archaeology sites, historic structures, or parts thereof, or adversely affect any of the above including Argonne's landscapes or remove live trees larger than 6 inches in diameter at breast height. All intrusive sampling work (work that disturbs the surface of the ground) taken place under this Generic Categorical Exclusion will take place in previously disturbed sites within the boundaries of Argonne National Laboratory or in off-site areas with approval of the land owner (e.g., Waterfall Glenn Forest Preserve and Palos Forest Preserves). Non-intrusive sampling such as hand collection of water samples from a pond or aerial photography using UASs would be allowed. No actions taken place under this Generic Categorical Exclusion shall modify or require special or specific Federal or State permits such as IEPA construction or air permits, US Army Corps of Engineers dredge and fill or wetland permits. No actions under this CX shall install new ventilation for radiological use. No actions under this CX shall discharge process water or wastewater to any storm sewer system. No exterior actions that disturb the earth or create the potential for erosion shall be conducted without an approved Erosion Control Plan. For activities involving both facility operations

and research activities, all planned activities will be verified to fall within the assigned generic CX or another appropriate environmental evaluation document. Any actions planned that do not meet these restrictions or fall within the scope described shall require additional NEPA review.

Description of Affected Environment

Sampling for environmental monitoring may be carried out at virtually any outdoor disturbed Argonne location (including under and around buildings/structures) on-site and at adjacent off-site locations such as Waterfall Glen Forest Preserve or Palos Park. Off-site sampling may be performed to establish background or baseline values including more distant outdoor locations in the Chicago land area.

Potential Environmental Effects

- Attach explanation for each "yes" response near bottom of form.
- **See Instructions for Completing Environmental Review Form.**

Section A (Complete For All Projects)		Yes	No	Explanation
1.	Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable	<input checked="" type="radio"/>	<input type="radio"/>	See individual explanations below.
2.	Air Pollutant Emissions	<input checked="" type="radio"/>	<input type="radio"/>	Minor emissions from cars, light duty vehicles, gas powered pumps and generators will occur.
3.	Noise	<input checked="" type="radio"/>	<input type="radio"/>	Minor noise from construction and operational/maintenance of equipment will occur. All appropriate standards will be followed and personal protective equipment will be used as required. Although all UASs emit nuisance noise within a short radius of the unit, this impacts only equipment operators. Mission traffic patterns are located over low population areas of the campus during working hours to minimize impact to workers.
4.	Chemical/Oil Storage/Use	<input checked="" type="radio"/>	<input type="radio"/>	Small quantities (less than one gallon) of standard construction, maintenance and operational chemicals will be used such as oil, cleaning products, sample preparation preservatives, drilling fluids, and cement. These materials will be managed according to LMS-PROC 115 (Reporting and Responding to Releases of Oil and Hazardous Substances to the Environment.)
5.	Pesticide Use	<input checked="" type="radio"/>	<input type="radio"/>	Pesticides and herbicides may be used as necessary to control pests such as wasps and hornets, mosquitoes, and invasive plants. Areas around sampling locations may be herbicided to allow access. Any restricted pesticides will be applied by licensed applicators and safety data sheets (SDS) will be made available through the Argonne intranet.
6.	Toxic Substances Control Act (TSCA) Substances			
6a.	Polychlorinated Biphenyls (PCBs)	<input checked="" type="radio"/>	<input type="radio"/>	PCB material may be found in samples and drilling operations. Any potentially contaminated waste material will be appropriately characterized to identify PCBs, and if present, managed according to LMS-PROC 126 (Management of Polychlorinated Biphenyls.)
6b.	Asbestos or Asbestos Containing Materials	<input checked="" type="radio"/>	<input type="radio"/>	The proposed activities may generate asbestos waste. The waste will be accumulated and managed in accordance with LMS-PROC 164(Asbestos Abatement.)
6c.	Other TSCA Regulated Substances	<input type="radio"/>	<input checked="" type="radio"/>	
6d.	Import or Export of Chemical Substances	<input type="radio"/>	<input checked="" type="radio"/>	
7.	Biohazards	<input type="radio"/>	<input checked="" type="radio"/>	
8.	Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (FMS-SEP) at 2-4582 or	<input checked="" type="radio"/>	<input type="radio"/>	These activities may generate small amounts of wastewater that will not require sewer disposal. Effluent from drilling, well development and sampling will be containerized if the effluent is not characterized and then disposed of appropriately. 800 Area and ENE Land fill purge water will be collected and

	lynch@anl.gov)			disposed in the Laboratory sewer treatment system as required by the Argonne RCRA Part B permit.
9.	Waste Management			
9a.	Construction or Demolition Waste	<input checked="" type="radio"/>	<input type="radio"/>	Construction debris may be generated from these actions. All debris shall be collected and placed in appropriate collection systems for recycling where appropriate. All debris and clean excess soil or gravel will be disposed of off-site unless expressly authorized for on-site recycling.
9b.	Hazardous Waste	<input checked="" type="radio"/>	<input type="radio"/>	Hazardous waste may be generated from these actions. The waste will be characterized, stored, treated and disposed according WMO-PROC 37 (Hazardous and Non-hazardous Waste Management.)
9c.	Radioactive Mixed Waste	<input checked="" type="radio"/>	<input type="radio"/>	Radioactive mixed waste may be generated from these actions. The waste will be characterized, stored and disposed according to WMO-PROC 25 (Sorting, Segregating, and Packaging, Radiological Waste for Disposal.)
9d.	Radioactive Waste	<input checked="" type="radio"/>	<input type="radio"/>	Radioactive waste may be generated from these actions. The waste will be characterized, stored and disposed according to WMO-PROC 25 (Sorting, Segregating, and Packaging, Radiological Waste for Disposal.)
9e.	PCB or Asbestos Waste	<input checked="" type="radio"/>	<input type="radio"/>	PCB and/or asbestos waste may be generated from these actions. The waste will be characterized, stored and disposed according to LMS-PROC 126 (Management of Polychlorinated Biphenyls) and LMS-PROC 164 (Asbestos Abatement.)
9f.	Biological Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9g.	No Path to Disposal Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9h.	Nano-material Waste	<input type="radio"/>	<input checked="" type="radio"/>	
10.	Radiation	<input checked="" type="radio"/>	<input type="radio"/>	Monitoring equipment may contain radioactive material and will be used according to the manufacture's instructions. Radiation encountered during these activities will be managed in accordance with LMS-PROC 109 (Control of Radiation Generating Equipment.)
11.	Threatened Violation of ES&H Regulations or Permit Requirement	<input type="radio"/>	<input checked="" type="radio"/>	
12.	New or Modified Federal or State Permits	<input checked="" type="radio"/>	<input type="radio"/>	These characterization or monitoring activities may be carried out in preparation for the submission of a permit application, in order to meet the requirements of a permit that has been issued, or to determine whether a new or modified permit is needed.
13.	Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste	<input type="radio"/>	<input checked="" type="radio"/>	
14.	Public Controversy	<input type="radio"/>	<input checked="" type="radio"/>	
15.	Historic Structures and Objects	<input type="radio"/>	<input checked="" type="radio"/>	
16.	Disturbance of Pre-existing Contamination	<input checked="" type="radio"/>	<input type="radio"/>	Activities may disturb contaminated or potentially contaminated areas to monitor and characterize them. These activities will follow the applicable safety and health plans to prevent personnel contamination. The actions will not cause uncontrolled release of contaminants to the environment.
17.	Energy Efficiency, Resource Conserving, and Sustainable Design Features	<input type="radio"/>	<input checked="" type="radio"/>	
Section B (For Projects that Occur Outdoors)		Yes	No	
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species	<input type="radio"/>	<input checked="" type="radio"/>	
19.	Wetlands	<input type="radio"/>	<input checked="" type="radio"/>	
20.	Floodplain	<input type="radio"/>	<input checked="" type="radio"/>	
21.	Landscaping	<input checked="" type="radio"/>	<input type="radio"/>	Areas may be cleared to perform the proposed activities. The disturbed areas will be restored to their original condition and, when possible, vegetation which is native to the region will be used.

22.	Navigable Air Space	<input checked="" type="radio"/>	<input type="radio"/>	Unmanned aerial systems may be used for monitoring within the boundaries of Argonne National Laboratory as per DOE-ASO-CX 322. (see attachment)
23.	Clearing or Excavation	<input checked="" type="radio"/>	<input type="radio"/>	Areas may be cleared to perform the proposed activities. Erosion control measures will be utilized. The disturbed areas will be restored to their original condition and, when possible, vegetation that is native to the region will be used.
24.	Archaeological Resources	<input type="radio"/>	<input checked="" type="radio"/>	
25.	Underground Injection	<input type="radio"/>	<input checked="" type="radio"/>	
26.	Underground Storage Tanks	<input type="radio"/>	<input checked="" type="radio"/>	
27.	Public Utilities or Services	<input type="radio"/>	<input checked="" type="radio"/>	
28.	Depletion of a Non-Renewable Resource	<input type="radio"/>	<input checked="" type="radio"/>	
Section C (For Projects Outside of ANL)		Yes	No	
29.	Prime, Unique, or Locally Important Farmland	<input type="radio"/>	<input checked="" type="radio"/>	
30.	Special Sources of Groundwater (such as sole source aquifer)	<input type="radio"/>	<input checked="" type="radio"/>	
31.	Coastal Zones	<input type="radio"/>	<input checked="" type="radio"/>	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	<input type="radio"/>	<input checked="" type="radio"/>	
33.	Action of a State Agency in a State with NEPA-type Law	<input type="radio"/>	<input checked="" type="radio"/>	
34.	Class I Air Quality Control Region	<input type="radio"/>	<input checked="" type="radio"/>	

Categorical Exclusion

Other (Use field below to enter other categorical exclusion)

B.3.1 - Site Characterization and Environmental Monitoring B.3.2 - Aviation Activities

ANL NEPA Reviewer Use Only

- My approval is the final approval necessary
 This form requires additional approval from DOE

Attachments

- File Description:** DOE-ASO-CX 279 [View Attachment](#)
- File Description:** DOE-ASO-CX 324 [View Attachment](#)
- File Description:** DOE-ASO-CX 279 Revision Transmittal Letter Kearns to Livengood - 031116 [View Attachment](#)
- File Description:**
- File Description:**

Comments

This Environmental Review Form is submitted as a revision to DOE-ASO-CX 279 (Site Characterization and Monitoring) site-wide generic categorical exclusion dated February 21, 2011.

Add Approver

Approver Name	Approver Badge	Reason	Delete

Notifications

The approval notification email will be copied to the people listed below.

Badge	Name	Division	Delete
44899	VanWermeskerken, Nancy	PSE	
44669	Barkalow, Thomas	PSC	
49659	Brocker, William A.	EGS	
59071	Matton, Philip B.	FMS	
43315	Pierce, Branch Geoffrey	PMA	

ASO-CX Number
ASO-CX- 324

 Comments:

Approval

<u>Approver</u>	<u>Action</u>	<u>Date Routed</u>	<u>Action Date</u>	<u>Approval Reason / Comments</u>	<u>Approval Type</u>
Sydelko, Thomas G.	APPROVED	2016-02-10	2016-02-10 10:23:27.0	Creator :	PRIMARY
Sydelko, Thomas G.	APPROVED	2016-02-10	2016-02-10 10:23:27.0	Allows access to the form :	PRIMARY
Sydelko, Thomas G.	APPROVED	2016-02-10	2016-02-10 10:23:27.0	Project Manager :	PRIMARY
Rodi, Diane J.	APPROVED	2016-02-10	2016-02-10 12:05:13.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Matton, Philip B.	APPROVED	2016-02-10	2016-02-10 10:52:16.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Hellman, Karen B.	APPROVED	2016-02-10	2016-03-11 15:19:45.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2016-03-11	2016-03-11 15:19:45.0	ANL-985 Review and Approval :	PRIMARY
Stine, Gail Y.	APPROVED	2016-03-11	2016-03-14 10:23:39.0	ANL-985 Review and Approval :	PRIMARY
Kearns, Paul K.	APPROVED	2016-03-14	2016-03-14 10:57:13.0	ANL-985 ANL COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2016-03-14	2016-03-15 14:25:37.0	ANL-985 DOE-ASO Review and Approval :	PRIMARY
Siebach, Peter R.	APPROVED	2016-03-15	2016-03-15 14:50:23.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY
