

SECTION 013543.20 – ENVIRONMENTAL SPECIFICATIONS - WATER

PART 1 - GENERAL

1.1 SUMMARY

A. Related Documents:

1. Drawings and general provisions of the contract, including general and supplemental conditions, and Division 01 sections apply to this Section.
2. Review these documents for coordination with additional requirements and information that apply to work under this Section.

NTS: Select materials, as appropriate, below.

B. Section Includes:

1. This section describes Subcontractor requirements that apply to those portions of projects at Lawrence Berkeley National Laboratory (LBNL) – “The University” that include environmental protection and environmental restoration activities involving the management and/or sampling of water, including groundwater, surface water, stormwater, and wastewater.
2. All activities shall be planned and conducted with full regard to protecting site workers, the public, and the environment, as well as complying with all applicable environmental laws and regulations.
3. The Environmental Services Group (ESG) shall review proposed documented work products, including but not limited to work packages, sampling and quality assurance plans, permit applications, and associated reports to determine if they are consistent with University policies and comply with regulatory requirements.
4. The Subcontractor shall provide, in the performance of University environmental activities, labor, materials, equipment, services, and supervision required to conduct work in accordance with all applicable federal, state, and local environmental laws and regulations, and University policies protective of public health and the environment as specified in this section.

PART 2 - OVERVIEW OF RELEVANT ENVIRONMENTAL REGULATIONS, UNIVERSITY DOCUMENTS, AND SPECIFICATION

- A. This section provides a list of potentially relevant environmental regulations, University documents and procedures, and specifications pertaining to the management and/or sampling of water, including groundwater, surface water, stormwater, and wastewater. University documents can be downloaded from the University website and can also be provided in electronic format upon request.

2.2 ENVIRONMENTAL REGULATIONS

NTS: Potentially relevant laws and regulations that must be met during the course of a project commonly include, but are not limited to, the following.

- A. Federal Clean Water Act, Title 33, United States Code (U.S.C.) Sections 1251 and following, and its implementing regulations in 40 Code of Federal Regulations (CFR):
 1. Establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulates quality standards for surface waters.
- B. State of California Water Resources Control Board and San Francisco Regional Water Quality Control Board (RWQCB) enforcement of National Pollutant Discharge Elimination System (NPDES):

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1. This program addresses water pollution by regulating point sources that discharge pollutants into water.
- C. State of California Water Resources Control Board (SWRCB) and RWQCB enforcement of Porter-Cologne Water Quality Control Act and its implementing regulations in Title 23:
 1. This act stipulates that water resources in the State of California will be put to beneficial use to the fullest extent of which they are capable, that the waste or unreasonable use or unreasonable method of use of water be prevented, and that conservation of water is to be exercised with a view to beneficial use in the interest of the people and public welfare.
- D. California Environmental Agency Department of Toxic Substances Control (DTSC) enforcement of the Resource Conservation and Recovery Act (RCRA).
 1. Corrective Action Program (CAP) at the University and its implementing regulations in 40 CFR:
 - a. Sections of 40 CFR that pertain to RCRA and the regulatory requirements pertaining to non-hazardous waste, hazardous waste, and other RCRA regulations can be found in parts 239 through 282.
 2. The University operates under a RCRA Part B Hazardous Waste Facility Permit issued by the DTSC.
- E. United States Environmental Protection Agency (US EPA) enforcement of 40 CFR Chapter I, Subchapter R – Toxic Substances Control Act (TSCA):
 1. Provides authority to require reporting, record-keeping, and testing requirements and restrictions related to chemical substances and/or mixtures.
- F. East Bay Municipal Utility District (EBMUD) Ordinances:
 1. Regulates wastewater discharges and associated permitting for EBMUD wastewater discharges.
- G. Bay Area Stormwater Management Agencies Association (BASMAA):
 1. This program was developed in response to the NPDES permitting program for stormwater in an effort to promote regional consistency and to facilitate efficient use of public resources.
- H. Department of Energy (DOE):
 1. Order 231.1b – Environment, Safety, and Health Reporting
 2. Order 243.1 – Records Management Program:
 - a. Includes a Contractor Requirements Document (CRD) that applies to "contractors that create, receive, use, maintain, disseminate, and/or dispose of DOE records in connection with the performance of DOE-funded tasks or activities."
 3. Order 414.1D – Quality Assurance.
 4. Order 436.1 – Departmental Sustainability and ISO 14001:2015 – Environmental Management Systems.
 5. Order 458.1 – Radiation Protection of the Public and the Environment.

2.3 UNIVERSITY ENVIRONMENTAL DOCUMENTS

- A. The most current version of the following documents will be provided to the Subcontractor upon request to the University:
 1. LBNL Environmental, Health, and Safety Manual, PUB-3000 – last updated on March 16, 2017.
 2. RCRA Corrective Measures Study Report (CMS) and Corrective Measures Implementation Report (CMI) at LBNL, 2005 and 2007; approved by DTSC.
 3. Annual Site Environmental Report – each September.
 4. Environmental Management System Plan – March 2009.
 5. Environmental Restoration Program Annual Progress Report – each February.
 6. Quality Assurance Program Plan for the Environmental Restoration Program – March 2016.
 7. Annual Report for the Stormwater discharge – Industrial General Permit (if project is less than 1 acre) – July 15 each year.
 8. Annual Report for the Stormwater discharge – Construction General Permit (if project is 1 acre or larger) – September 1 each year.

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9. Stormwater Pollution Prevention Plan for the Industrial General Permit – November 2022 – sitewide
10. Stormwater Pollution Prevention Plan for the Construction General Permit – for projects greater than 1 acre.
11. Stormwater Monitoring Implementation Plan.
12. Spill Prevention, Control, and Countermeasure Plan.
13. Self-monitoring and discharge log reports for special wastewater discharge permit – specified in EBMUD permit.

2.4 ENVIRONMENTAL SERVICES GROUP (ESG) PROCEDURES

- A. Environmental Document Preparation – Procedure 200.
- B. Environmental Release Notification and Reporting Requirements – Procedure 203.
- C. Groundwater and Soil Vapor Treatment System Inspection and Maintenance – Procedure 230.
- D. Drilling, Logging, Sampling, and Destroying Groundwater Wells – Procedure 231.
- E. Installing, Developing, and Destroying Groundwater Wells – Procedure 232.
- F. Groundwater Sampling – Procedure 233.
- G. Sample Processing, Packaging, and Transport – Procedure 254.
- H. Spill Response Sample Collection – Procedure 260.
- I. Creek Water, Sediment, and Stormwater Monitoring – Procedure 263.
- J. Wastewater Sampling – Procedure 265.
- K. Environmental Sample Tracking and Data Management – Procedure 268.

2.5 POTENTIALLY RELEVANT SPECIFICATIONS

NTS: This section provides a list of potentially relevant specifications pertaining to activities that require the management, handling, and/or sampling of water, including groundwater, surface water, stormwater, and wastewater. These include, but are not limited to:

- A. Division 01 – General Requirements:
 1. Section 010000 – General Requirements
 2. Section 013500 – Special Procedures
 3. Section 013529 – Environmental Safety and Health Procedures
 4. Section 013543.13 – Hazardous Mixed and Radioactive Waste Management
 5. Section 015723 – Stormwater Pollution Prevention
 6. Section 017419 – Construction Waste Management
- B. Division 02 – Existing Conditions:
 1. Section 025126 – Radiation Protection
 2. Section 026113 – Excavation and Handling Contaminated Material
- C. Division 21 – Fire Suppression:
 1. Section 210111.11 – Operation of Fire-Suppression System

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2. Section 210111.13 – Testing and Maintenance of Fire Suppression

D. Division 31 – Earthwork:

1. Section 312316.13 – Trenching
2. Section 312316 – Excavation
3. Section 315000 – Excavation Support and Protection

E. Division 33 – Utilities:

1. Section 333100 – Sanitary Sewer
2. Section 334000 – Storm Drainage Utilities

F. Facilities Procedures:

1. MA.MG.PRC.328 – Building 76 Motor Pool – Fuel Spill Containment Basin
2. MA.MG.PRC.345 – Building Washing – Wastewater Management Operating Procedure
3. MA.UT.PRC.344 – Storm Drains – Using Sodium Sulfite/Sodium Thiosulfate to Dechlorinate Domestic Water Discharges: Work Process and Operating Procedure.
4. MA.UT.PRC.002 – Turbidity Monitoring of Hydrant ITM Liquid Run-Off

2.6 REQUIRED SUBCONTRACTOR SUBMITTALS

- A. The following is a list of documents that may be required to be submitted by the Subcontractor, depending on the specific project's needs. The documents shall be consistent with the University policies and comply with all applicable regulatory requirements.
- B. The documents will be reviewed by ESG and will be revised by the Subcontractor in accordance with University comments.
- C. If regulatory agency review is required, the Subcontractor will prepare responses to regulatory agency comments and revise the document in accordance with regulatory agency-approved responses and as directed by the University. All responses to regulatory agency comments and revised versions of the documents will be submitted to ESG for review and approval prior to submission to the regulatory agency by the University.
- D. Any deviations from the University-approved documents shall be justified in writing and approved by ESG prior to implementation.
- E. The University PM and EHS Environmental Project Coordinator shall approve any written communication with regulatory agencies and a University representative shall be present for any verbal communication.
- F. The minimum requirements for each document, if required, are specified below. Each document shall comply with the most recent environmental regulations and University policies listed above.
- G. Potential document submittals and minimum requirements.
 1. Regulatory Agency Compliance Plan
 - a. If requested by ESG, the Subcontractor will be required to prepare the Regulatory Agency Compliance Plan. The Regulatory Agency Compliance Plan describes interactions, including notification and reporting requirements, with regulatory agencies with oversight authority for the project. All environmental-related communications between the project and the regulatory agency and all documents and other correspondence shall be provided to a University Environmental Project Coordinator unless otherwise specified by the University.
 - b. The Plan may include, but not be limited to the following information:
 - 1) All project-specific regulatory agency compliance requirements;
 - 2) Applicable state and federal laws, their implementing regulations, and applicable regulatory agency guidance documents;
 - 3) Permits and approvals;

- 4) Names, positions, and contact information for all regulatory agencies;
 - 5) Release notification requirements and actions;
 - 6) Required plans and reports, and other deliverables, as applicable;
 - 7) Contingency plans for non-compliance conditions;
 - 8) Certification requirements;
 - 9) Site access;
 - 10) Dispute resolution as it pertains to a remedial action, Record of Decision, or other regulatory- approved project plan; and
 - 11) Subcontractor personnel responsible for regulatory agency compliance.
2. Regulatory Agency Compliance Agreement
 - a. If requested by a regulatory agency, the Subcontractor will be required to prepare the Regulatory Agency Compliance Agreement.
 - b. A compliance agreement with a regulatory agency such as the US EPA Region 9, California DTSC, the State of California Water Resources Control Board, and/or the San Francisco Bay RWQCB and the University may be necessary for environmental investigation and cleanup activities that will specify the regulatory processes that shall be followed, including how environmental activities will be conducted and the regulatory agency interactions that will be required.
 - c. In coordination with the University and DOE, the content of the agreement will be based on lead agency requirements.
 3. Records/Data Management Plan
 - a. The Records/Data Management Plan provides the requirements, responsibilities, and procedures for managing records/data, including storage and transfer to the University, and archiving and retention time. The Plan specifies the requirements for documentation be in accordance with:
 - 1) DOE Order 243.1, *Records Management Program*, which includes a Contractor Requirements Document (CRD) that applies to "contractors that create, receive, use, maintain, disseminate, and/or dispose of DOE records in connection with the performance of DOE-funded tasks or activities."
 - 2) DOE Order 458.1 requires that environmental radiation protection records be retained until final disposition is authorized by the DOE.
 - b. The University's Requirements and Policies Manual, which describes the University's institutional records management program, is consistent with all applicable laws and DOE requirements. Records/data to be managed under this Plan include, but are not limited to:
 - 1) Work plans and reports;
 - 2) Technical studies;
 - 3) Risk evaluations;
 - 4) Project documents such as Quality Assurance Plans, Health and Safety Plans, and Sampling and Analysis Plans;
 - 5) Community relations/public participation documents;
 - 6) Comments and responses;
 - 7) Regulatory agency approvals and decision documents; and
 - 8) Photographs, sampling and monitoring data, and laboratory analytical reports, including hard copies and Electronic Data Deliverables (EDDs).
 - c. Laboratory analysis EDDs shall be in the format required by Specifications for Transmitting Analytical and Quality Assurance (QA)/Quality Control (QC) Data from a Subcontract Analytical Laboratory to Environment, Health, and Safety Division, LBNL, April 26, 2012 (with updates).
 4. Environmental Release Report
 - a. During the course of conducting work under this specification, should an unexpected environmental condition be encountered or an unexpected environmental release occur, an Environmental Release Report shall be prepared by the Subcontractor.
 - b. Reports submitted to regulatory agencies shall be signed by a qualified professional approved by ESG.
 - c. If an unexpected release occurs, the report shall include the following, as applicable:
 - 1) A summary of the environmental release, including the location, the material released, and the quantity of material released;
 - 2) A description of potential or known impacts to human and environmental receptors;

- 3) Corrective actions taken to contain the release and media that were impacted by the release;
- 4) If additional investigation is required to evaluate the extent of the release;
- 5) Documentation of required regulatory notifications; and
- 6) All sampling and analytical data.
- d. If the unexpected release or condition encountered results in additional investigation, the report shall also include the following, as applicable:
 - 1) A summary of investigation results (include tables and figures that summarize sample locations and analytical results);
 - 2) A description of the investigation, including methods and procedures and all data necessary to understand the investigation in its entirety;
 - 3) A discussion of key decisions resolved during the investigation; and
 - 4) A discussion of any field or laboratory condition(s) that occurred that may influence the results with summary tables documenting the condition(s) and identifying the sample(s) that may be impacted.
5. Annual Environmental Report Attachments
 - a. The Subcontractor shall provide the University an annual report prepared by a qualified professional approved by ESG to be included as an attachment to the University's Site Environmental Report and/or Environmental Restoration Program Annual Progress Report, if applicable. The report will include, at a minimum:
 - 1) All actions taken to achieve compliance with regulatory agency requirements;
 - 2) A summary of all findings;
 - 3) All problems or potential problems encountered and solutions;
 - 4) All projected work for the next fiscal year;
 - 5) A discussion of any changes in personnel that occurred during the reporting period;
 - 6) Summaries of all contacts with representatives of regulatory agencies, the press, local community, or public interest groups;
 - 7) The results of any sampling tests and/or other data generated, including maps showing sample locations and tables of analytical results; and
 - 8) A discussion of any deviation from approved plan requirements, with reasons for the deviation.
6. Quality Assurance Project Plan
 - a. The Quality Assurance Project Plan (QAPP) provides the QA requirements for collecting and analyzing site-specific environmental data involving the investigation and cleanup, if required, for water, including groundwater, surface water, stormwater, and wastewater. The QAPP may be a component of a Sampling and Analysis Plan.
 - b. The QAPP shall comply with EPA Region 9 Guidance for Quality Assurance Program Plans and meet the requirements of DOE Order 414.1D Quality Assurance and the ESG Environmental Restoration Program QAPrP.
 - c. The QAPP shall contain, but is not limited to, the following four main elements:
 - 1) Program Management: Addresses program objectives, roles, and responsibilities.
 - 2) Data Generation and Acquisition: Addresses all aspects of program data generation and describes procedures to ensure that appropriate methods for data collection or sampling; measurement, analysis, and data generation; data handling; and QC activities are employed and properly documented. This includes development of Data Quality Objectives (DQOs).
 - 3) Assessment and Oversight: Addresses the activities to assess the effectiveness of the implementation of the program and associated QA and QC activities.
 - 4) Data Review and Usability: Addresses the QA activities that occur after the data collection or generation phase.
7. Sampling and Analysis Plan
 - a. The Sampling and Analysis Plan (SAP) establishes the requirements for collecting environmental data for investigation, cleanup, and monitoring of water, including groundwater, surface water, stormwater, and wastewater, if required.
 - b. Guidance for preparing a SAP is provided in EPA Region 9 Sampling and Analysis Plan Guidance and Template Version 4, General Projects R9QA/009, 1 May 2014.

- c. The SAPs shall be prepared by a qualified professional approved by ESG and approved by the Subcontractor PM, and submitted to and approved by ESG before any samples are collected.
 - d. Sample analysis shall comply with the University's policies and procedures. Contracted laboratories shall provide EDDs that are compatible with the University's ESM database.
 - e. Subcontractors shall use analytical laboratories with existing contracts with the University. Potential exceptions require pre-approval by ESG.
 - f. At a minimum, the SAP shall establish DQOs and include the following for all sampling, monitoring, and analytical activities:
 - 1) A description of the activities that require sampling and analysis;
 - 2) Identification of the contaminants of potential concern (COPCs);
 - 3) Sampling design, including specification of the number, locations, and depths where samples will be collected. The sampling design should in most cases include a conceptual site model that incorporates existing data and provides a basis for the sampling design;
 - 4) Sampling and analysis approach, including description of the sampling equipment and requirements for collecting, labeling, storing, and transporting samples to the laboratory;
 - 5) Sample analysis requirements, the analytical methods to be used, holding times, and the required reporting limits;
 - 6) The names, addresses, and telephone numbers of the analytical laboratories; and
 - 7) The SAP shall be submitted as a stand-alone document and as such will reference relevant elements contained in the QAPP.
8. Stormwater Pollution Prevention Plan for The Construction General Permit (*if project is greater than 1 acre*)
- a. The Subcontractor shall comply with a Stormwater Pollution Prevention Plan (SWPPP) for Discharges Associated with Construction and Land Disturbance Activities. The SWPPP shall be prepared by LBNL's Stormwater Program Manager and implemented by the Subcontractor's stormwater consultant.
 - b. The SWPPP contains detailed requirements associated with construction projects where there is potential stormwater runoff, including information on the project site, training requirements for personnel involved, identification of responsible parties and their roles, best management practices that shall be followed (including but not limited to covering of soil stockpiles, dust control, management of run-on/runoff, and non-stormwater management), construction site monitoring, and post-construction stormwater management.
 - c. The Subcontractor shall maintain the document during the course of the project. Consistent with the California Construction General Permit, LBNL's Qualified SWPPP Developer (QSD) shall prepare the SWPPP and the Subcontractor's QSD shall maintain the SWPPP.
 - d. The Subcontractor shall submit all field-generated SWPPP forms (e.g., Weekly Inspection Reports and Sampling and Monitoring Data) to the LBNL Stormwater Program Manager monthly. The forms shall be submitted electronically and are due during the first full week of the next consecutive month.
 - e. For projects less than 1 acre, the Subcontractor will be required to comply with requirements specified in the University's Industrial SWPPP.
 - f. The University is the site's Legally Responsible Party (LRP) and shall have sole control of the project's Storm Water Multiple Application and Report Tracking System (SMARTS) account.
9. Rain Event Action Plan (REAP) for the Construction General Permit (needed whenever the project area is designated as a Risk Level 2 or 3 stormwater discharger or when specified by ESG)
- a. A REAP is a written document, specific for each rain event, prepared within 48 hours of any likely precipitation event forecast by the National Oceanic and Atmospheric Administration of 50% or greater probability.
 - b. A REAP includes measures designed to ensure that the project site has adequate materials, staff, and time to implement erosion and sediment control measures that are intended to reduce the amount of sediment and other pollutants generated from the active site.
10. Dewatering Plan for the Construction General Permit
- a. The Dewatering Plan addresses construction-dewatering requirements at the project site, including requirements for controlling contaminated groundwater as well as rainwater potentially mixed with water used for dust control.

- b. The Plan will include the following items as applicable, at a minimum:
 - 1) Proposed discharge methodology, including a copy of the application form for an EBMUD Special Discharge Permit;
 - 2) Basis of design and rationale for treatment;
 - 3) Required storage;
 - 4) Water monitoring and testing requirements;
 - 5) Water treatment requirements for discharge to the sewer; and
 - 6) Surface water containment.
 - 11. Project-Specific Memoranda
 - a. Site Environmental Report for Project Activities:
 - 1) The annual report is prepared by ESG and is due to the DOE at the end of each September. It is the Subcontractor's responsibility to provide details pertaining to project-related tasks involving water for the previous calendar year by August 1st so that they can be included in the report.
 - 2) The information shall meet the reporting requirements of the University's approved RCRA Corrective Action Program and project requirements.
 - 3) The information shall meet the reporting requirements of DOE Order 231.1b, Environment, Safety, and Health Reporting.
 - b. Environmental Restoration Program Annual Progress Report for Project Activities:
 - 1) 1. The Annual Progress Report is prepared by ESG and is due to the DTSC annually by the end of February and covers activities conducted during the previous fiscal year ending September 30. It is the Subcontractor's responsibility to provide a project-specific memorandum including details pertaining to activities involving groundwater and surface water by December 31st for the preceding fiscal year ending September 30 so that they can be included in the report. The memorandum shall include but is not limited to, tables and figures summarizing sampling and analysis results and regulatory agency actions.
 - 2) If work conducted is a corrective action, the information shall meet the reporting requirements of the University's approved RCRA Corrective Action Program.

2.7 SUBCONTRACTOR QUALIFICATION, TRAINING AND CERTIFICATION REQUIREMENTS

- A. Qualifications of the assigned Subcontractor and personnel include, but are not limited to:
 - 1. Knowledge of federal, State of California, and local environmental regulations and their applicability (Part 3.2 above);
 - 2. Professional California registration or certification in specialty area in good standing (i.e., PG, PE-Civil) as required by the regulations; and
 - 3. The Subcontractor shall be properly licensed as required by the State of California. Specialty licenses may be required (e.g. C-57 drilling license).
- B. Training requirements of the assigned Subcontractor and personnel include, but are not limited to:
 - 1. If the project involves hazardous substance removal or other activities that expose or potentially expose personnel to hazardous substances and health hazards, those personnel shall possess a current 40- hour HAZWOPER training certificate and have received a minimum of three days field experience under the direct supervision of a trained experienced supervisor as required under 40 CFR 1910.120.
 - 2. Workers that are onsite only occasionally for a specific limited task (such as, but not limited to land surveying or geophysical surveying) and who are unlikely to be exposed over permissible exposure limits (PELs) shall possess a current 24-hour occasional site worker HAZWOPER certificate and one day of field experience under the direct supervision of a trained, experienced supervisor.
 - 3. The Supervisor of HAZWOPER personnel shall have 8-hour HAZWOPER Supervisor training in addition to the 40-hour training.
 - 4. All 40 and 24-hour HAZWOPER-certified personnel shall also possess a current (within the last year) 8- hour HAZWOPER refresher training certification.
- C. Certifications required of the assigned Subcontractor and personnel include, but are not limited to:

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1. Environmental investigation and sampling work shall be performed under the supervision of a California licensed PG or a licensed Professional California PE-Civil in good standing with the Board of Professional Engineers, Land Surveyors, and Geologists, or a qualified professional approved by ESG with experience conducting and supervising environmental investigations.
2. Monitoring well and sampling locations shall be surveyed by a California licensed land surveyor or University approved personnel with the appropriate training in surveying and mapping.
3. For projects greater than 1 acre, the Subcontractor shall retain a QSP for SWPPP implementation, and a Qualified Stormwater Developer (QSD) for SWPPP preparation, amendments, and revisions.
4. Chemical and radiological analyses shall be performed by a laboratory that is certified by both the California State Water Resources Control Board and the Environmental Laboratory Accreditation Program and is accredited by a third party overseen by the Department of Energy

2.8 SUBCONTRACTOR ROLES AND RESPONSIBILITIES

- A. The Subcontractor is responsible for oversight and execution of the work; verifying that work is conducted in a safe manner and meets all regulatory requirements; submitting to ESG required documents for review and approval; and preparing permit applications and/or draft notices to regulatory agencies (Part 3.10). Subcontractor shall provide qualified personnel to fulfill the following roles. Depending on the size of the project, one or more of the roles may be assigned to one on-site person:
1. Subcontractor Project Manager (PM) – The PM has responsibility for project oversight of the work plan development and implementation processes for environmental protection and restoration activities associated with the management and/or sampling of water, including groundwater, surface water, stormwater, and wastewater.
 2. Qualified Stormwater Practitioner (QSP) – The QSP is responsible for performing inspections and specifying stormwater Best Management Practices (BMPs) and control in direct support with the work package. As stated in Part 3.6.G.8, a Qualified SWPPP Developer (QSD) is required to prepare and maintain the SWPPP.
 3. Environmental Professional (EP) – The EP will oversee the field activities, verify that all documentation is maintained, and provide input regarding field conditions that may require changes to the work plan or notification to agencies.

2.9 DOCUMENT APPROVAL PROCESS

- A. All documents, whether new or adopted, shall be approved by the University.
- B. Subcontractor-prepared documents will be submitted to the University Technical Representative identified by the Contract, who will distribute documents to their selected review team.
- C. Internal draft, revised draft, and final versions of documents are required. A response-to- comments table may be required for large deliverables if stipulated by the University.
- D. Subcontractor should assume complete high-quality documents will require 10 working days for review by the University; inadequate or incomplete documents will require longer review times, multiple review cycles, or result in document rejection.

2.10 REQUIRED PERMITTING

- A. Unless otherwise specified, permits will be prepared by the Subcontractor and submitted to the applicable agency by the University Project Manager or ESG representative. Required permits may include, but are not limited to, the following:
1. California State Water Resources Control Board (SWRCB) General Stormwater Permit for Construction Activities: Any construction or demolition activity, including, but not limited to, clearing, grading, grubbing, or excavation, or any other activity that results in a land disturbance of equal to or

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greater than 1 acre shall be covered by the state's general construction permit. If the activity is less than 1 acre, then the Subcontractor shall comply with the University's Stormwater Permit for Industrial Activities. LBNL's Stormwater Program Manager shall prepare a Notice of Intent for construction permit coverage and the Subcontractor shall meet all permit requirements. The following construction permits are active:

- a. SSM / THUP (Notice of Intent) - Indefinite
 - b. BioEPIC (Notice of Intent) – Indefinite.
- B. SWRCB Stormwater Discharge Permit for Industrial Activities: Sitewide permit applicable to construction and demolition activities less than 1 acre and not covered by a state general construction permit.
- C. EBMUD Special Wastewater Discharge Permits: Subcontractor will prepare an application to EBMUD, which shall be approved before any discharges of water are made to the sanitary sewer that are not covered by the University's site-wide permit. A special permit is typically needed for dewatering excavations and discharging treated water to the sanitary sewer.
- D. City of Berkeley Subsurface Drilling Permit Application for Well Construction, Installation, Destruction, or Modification Permit: Subcontractor will submit a permit application to the City of Berkeley only for the installation or decommissioning of any permanent or temporary wells or borings installed with the primary purpose of collecting hydrologic information or assessing groundwater or soil contamination.
- E. A City of Berkeley Underground Storage Tank (UST) Permit: Subcontractor will prepare an application required for any work on a UST that is not just a like-for-like change-out. The City shall approve the UST permit application.

PART 3 - PRODUCTS

Not Used

PART 4 - EXECUTION

Not Used

END OF SECTION 013543.20

NTS: Add a change log to the end of each section. This is for internal use only and the A/E will delete this from the project set of specifications.

Date	Reviewer	Paragraph	Summary of update
7/03/2022	EBS		<i>Master Specifications Update</i>
7/7/2023	B.Mulholland		Reviewed, accepted minor edits, and clarified that LBNL's Stormwater Program Manager shall prepare the SWPPP for implementation by the Subcontractor's stormwater consultant.